



# Federal Emergency Management Agency

Washington, D.C. 20472

May 24, 2017

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

The Honorable John Skillman  
Village President, Village of Carpentersville  
1200 L.W. Besinger Drive  
Carpentersville, IL 60110

IN REPLY REFER TO:

Case No.: 17-05-1258P  
Community Name: Village of Carpentersville, IL  
Community No.: 170322  
Effective Date of  
This Revision: October 5, 2017

7011 1570 0002 7359 5049

Dear Mr. Skillman:

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 panel(s) revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals issued in your community.

Additional documents are enclosed which provide information regarding this LOMR. Please see the List of Enclosures below to determine which documents are included. Other attachments 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 Chicago, Illinois, at (312) 408-5500, 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/business/nfip>.

Sincerely,

Patrick "Rick" F. Sacbibit, P.E., Branch Chief  
Engineering and Modeling Division  
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. Ralph Stark  
HR Green, Inc.

Mr. Kevin Gray  
Village Engineer, Village of Carpentersville

Mr. Paul Osman  
NFIP State Coordinator, Illinois Department of Natural Resources



# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	Village of Carpentersville Kane County Illinois	BRIDGE CHANNELIZATION CULVERT	FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 170322		
IDENTIFIER	Carpenter Creek LOMR	APPROXIMATE LATITUDE & LONGITUDE: 42.109, -88.282 SOURCE: Other DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 17089C0156H DATE: August 3, 2009 TYPE: FIRM NO.: 17089C0157H DATE: August 3, 2009		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: June 02, 2015 PROFILE(S): 36P; 36P(a) FLOODWAY DATA TABLE: 12 SUMMARY OF DISCHARGES TABLE: 8	

Enclosures reflect changes to flooding sources affected by this revision.

\* FIRM - Flood Insurance Rate Map

### FLOODING SOURCE(S) & REVISED REACH(ES)

Carpenter Creek - From just downstream of Spring Street to approximately 2,050 feet upstream of Maple Avenue.

### SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Carpenter Creek	Zone A	Zone A	NONE	YES
	No BFEs*	BFEs	YES	YES
	Floodway	Floodway	YES	NONE
	Zone A	Zone AE	YES	NONE

\* BFEs - Base Flood Elevations

## 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 (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the Engineering Library, 3601 Eisenhower Ave Ste 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Patrick "Rick" F. Sacbbit, P.E., Branch Chief  
Engineering and Modeling Division  
Federal Insurance and Mitigation Administration



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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.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway revision we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

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.

#### COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist 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.

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 (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the Engineering Library, 3601 Eisenhower Ave Ste 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Patrick "Rick" F. Sacbbit, P.E., Branch Chief  
Engineering and Modeling Division  
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency  
Washington, D.C. 20472

**LETTER OF MAP REVISION  
DETERMINATION DOCUMENT (CONTINUED)**

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. Mark Peterson  
Acting Director, Mitigation Division  
Federal Emergency Management Agency, Region V  
536 South Clark Street, Sixth Floor  
Chicago, IL 60605  
(312) 408-5500

**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 panel(s) 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 (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the Engineering Library, 3601 Eisenhower Ave Ste 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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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](https://www.floodmaps.fema.gov/fhm/bfe_status/bfe_main.asp)

LOCAL NEWSPAPER

Name: *Daily Herald*

Dates: May 31, 2017 and June 7, 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 (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the Engineering Library, 3601 Eisenhower Ave Ste 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Engineering and Modeling Division  
Federal Insurance and Mitigation Administration

**Table 8 - Summary of Discharges (continued)**

<i>Flooding Source and Location</i>	<i>Drainage Area (square miles)</i>	<i>Peak Discharges (cubic feet per second)</i>			
		<i>10-Percent- Annual-Chance</i>	<i>2-Percent- Annual-Chance</i>	<i>1-Percent- Annual-Chance</i>	<i>0.2-Percent- Annual-Chance</i>
<b>Burlington Creek</b>					
Approximately 4,300 feet upstream of Walker Road, just downstream of Railroad	15.2	1760	3183	3,743	*
Approximately 2,100 feet downstream of French Road	12.7	1442	2667	3,298	*
Just downstream of the confluence with Burlington Creek Tributary A	12.6	1303	2411	2,951	*
Approximately 640 feet upstream of the confluence with Burlington Creek Tributary A	9.6	989	1797	2,153	*
<b>Burlington Creek Tributary A</b>					
Approximately 530 feet upstream of Getzelman Road	1.3	341	646	811	*
Just downstream of the confluence with unnamed tributary, approximately 2,500 feet downstream of Romke Road	1.3	269	509	646	*
Just upstream of Romke Road	0.4	198	372	481	*
<b>Burlington Creek West Branch</b>					
Approximately 2,850 feet downstream of IL-72	2.4	317	529	657	*
Just downstream of the confluence with unnamed tributary, approximately 2,250 feet upstream of IL-72	1.9	279	474	594	*
Just upstream of Burlington Road	0.7	118	217	279	*
<b>Carpenter Creek</b>					
At confluence with Fox River	1.5	331	531	669	918
Approximately 500 feet upstream of Spring Street.	0.9	191	*	415	*
<b>REVISED DATA /</b>					
<b>Duffin Drain</b>					
At US 30	8.1	*	*	979	*
At Lasher Road	2.5	*	*	422	*

\*Data not available

**REVISED TO REFLECT  
LOMR EFFECTIVE  
OCTOBER 5, 2017**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE (FEET)
Carpenter Creek								
A	334 <sup>1</sup>	17	111	6.0	723.0	723.0	723.0	0.0
B	370 <sup>1</sup>	11	108	6.2	725.1	725.1	725.2	0.1
C	450 <sup>1</sup>	101	571	1.2	725.9	725.9	726.0	0.1
D	1,148 <sup>1</sup>	98	231	2.9	729.8	729.8	729.9	0.1
E	1,872 <sup>1</sup>	96	285	2.3	736.5	736.5	736.6	0.1
F	1,987 <sup>1</sup>	266	615	1.7	737.5	737.5	737.5	0.0
<b>REVISED DATA</b> ↗								
Duffin Drain								
A	955 <sup>2</sup>	*	*	*	681.0	681.0	*	*
B	4,261 <sup>2</sup>	*	*	*	689.3	689.3	*	*
C	5,830 <sup>2</sup>	*	*	*	693.3	693.3	*	*
D	6,271 <sup>2</sup>	*	*	*	701.3	701.3	*	*
E	12,647 <sup>2</sup>	*	*	*	702.3	702.3	*	*
Eakin Creek								
A	710 <sup>3</sup>	529	1,375	1.2	869.9	869.9	869.9	0.0
B	1,250 <sup>3</sup>	510	1,582	1.9	870.0	870.0	870.0	0.0
C	2,125 <sup>3</sup>	*	*	*	870.3	870.3	*	*
D	3,425 <sup>3</sup>	*	*	*	870.4	870.4	*	*

<sup>1</sup>Feet above confluence with Fox River

<sup>2</sup>Feet above confluence with Sugar Grove Branch

<sup>3</sup>Feet above confluence with South Branch Kishwaukee River

\*Data not available

**TABLE 12**

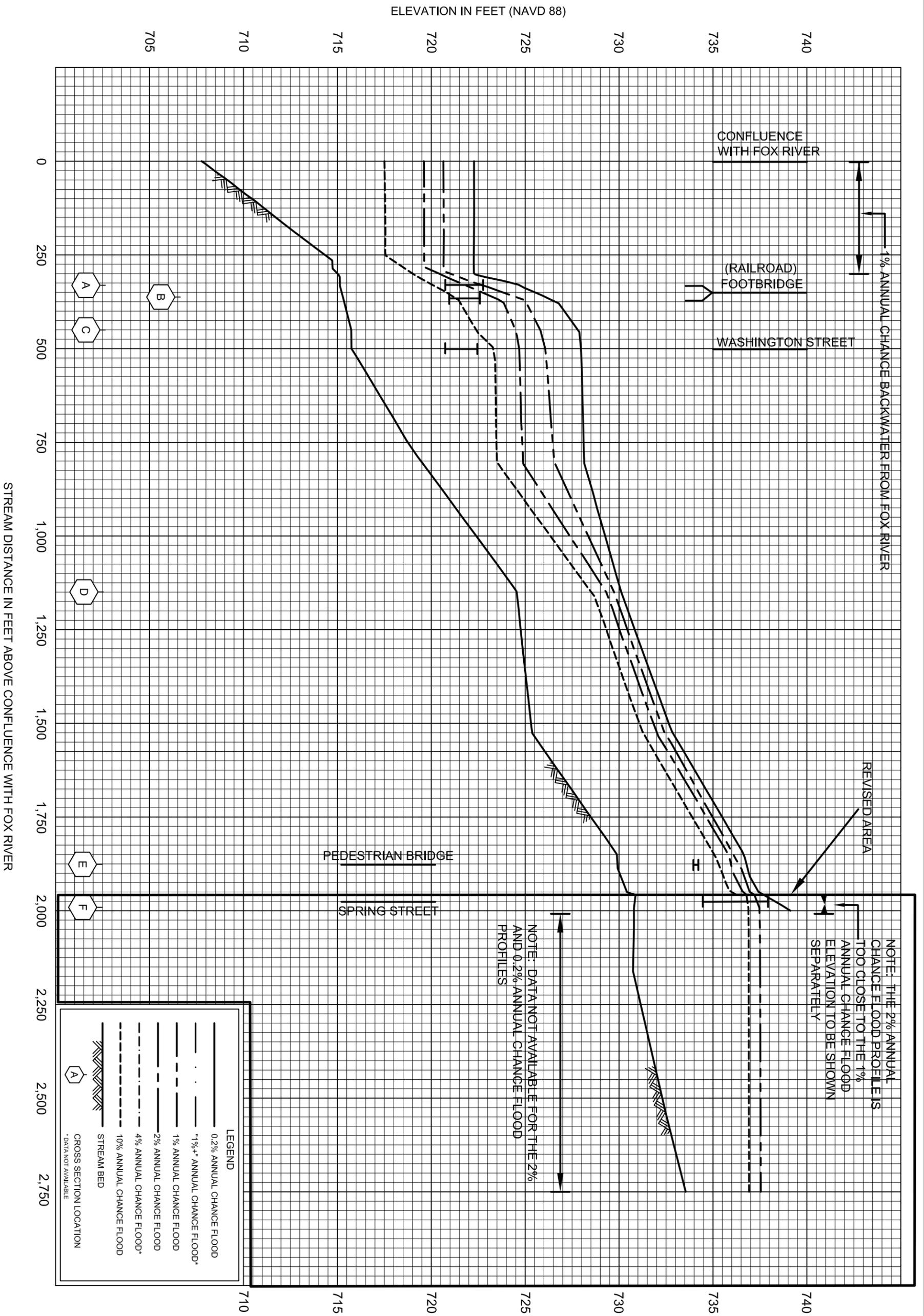
**FEDERAL EMERGENCY MANAGEMENT AGENCY**

**KANE COUNTY, IL  
AND INCORPORATED AREAS**

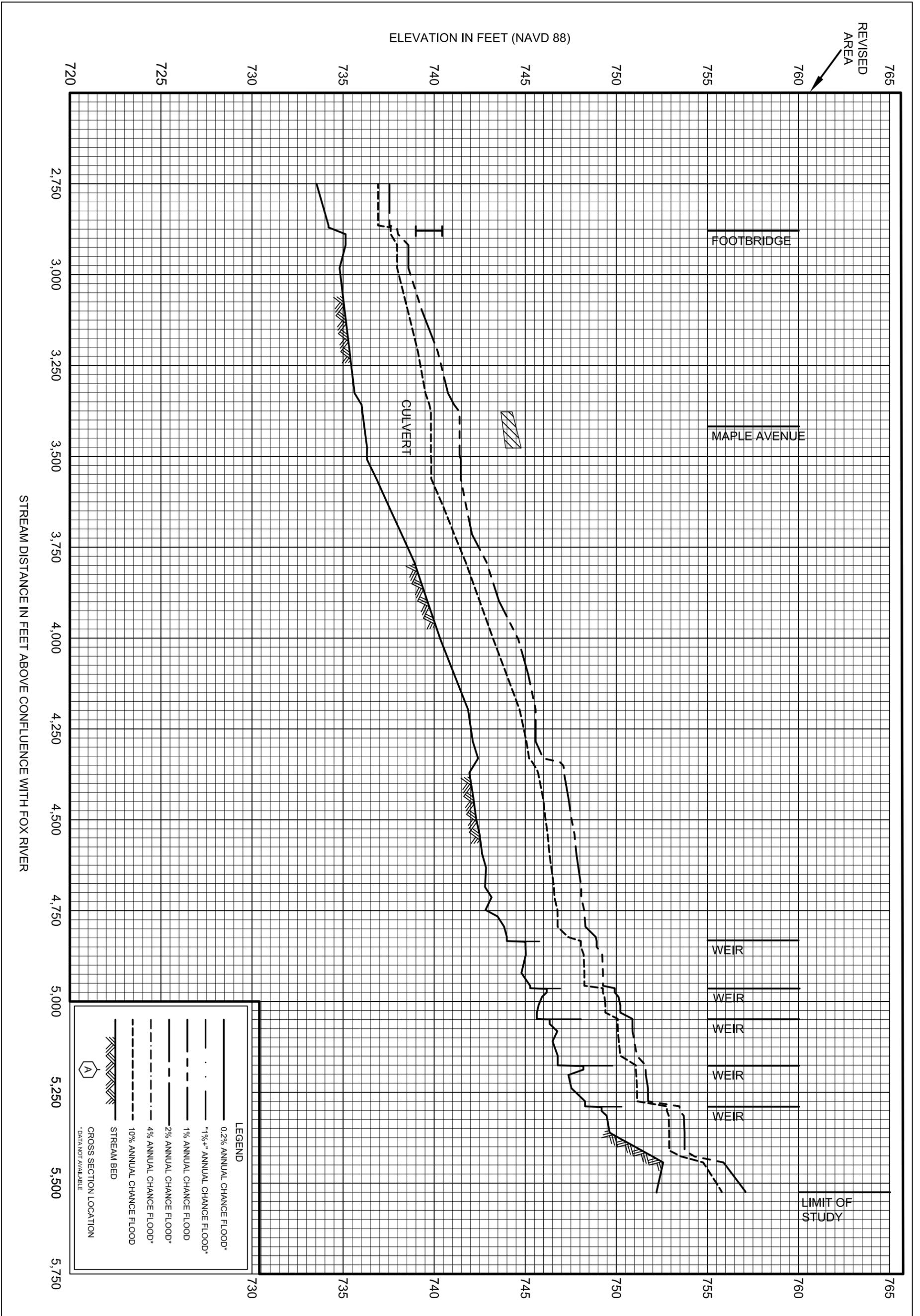
**FLOODWAY DATA**

**CARPENTER CREEK  
DUFFIN DRAIN  
EAKIN CREEK**

**REVISED TO REFLECT  
LOMR EFFECTIVE  
OCTOBER 5, 2017**



REVISED TO REFLECT  
LOMR EFFECTIVE  
OCTOBER 5, 2017



# Village of Carpentersville 170322



Carpenter Creek

**REVISED AREA**

**SPECIAL FLOOD HAZARD AREAS**

- Without Base Flood Elevation (BFE)  
Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee See Notes. Zone X

**OTHER AREAS OF FLOOD HAZARD**

1% ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE

**SCALE**

Map Projection:  
NAD 1983 UTM Zone 16N;  
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 1,000 Feet

0 125 250 Meters

**FEMA National Flood Insurance Program**

**NATIONAL FLOOD INSURANCE PROGRAM  
FLOOD INSURANCE RATE MAP**

KANE COUNTY, ILLINOIS  
AND INCORPORATED AREAS

PANEL **156** OF **410**

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
CARPENTERSVILLE, VILLAGE OF	170322	0156	H
EAST DUNDEE, VILLAGE OF	170323	0156	H
SLEEPY HOLLOW, VILLAGE OF	170896	0156	H
WEST DUNDEE, VILLAGE OF	170331	0156	H
WEST DUNDEE, VILLAGE OF	170335	0156	H

**REVISED TO REFLECT LOMR EFFECTIVE OCTOBER 5, 2017**

VERSION NUMBER 2.3.3.0  
MAP NUMBER 17089C0156H  
EFFECTIVE DATE August 3, 2009

Village of East Dundee  
170323

JOINS PANEL 0157

PEDESTRIAN BRIDGE

CARPENTER BLVD

ILLINOIS ST  
SHORT ST

Carpenter Creek

ZONE AE  
(EL 757.1)

ZONE A

15

REVISED AREA

1985000 FT

Village of  
Carpentersville  
170322

MAPLE AVE

JOINS PANEL 0156

CLEVELAND AVE



22

23

Village of  
East Dundee  
170323

BRAMER ST

2ND AVE

BISMARCK AVE

EDWARDS AVE

ILLINOIS ST

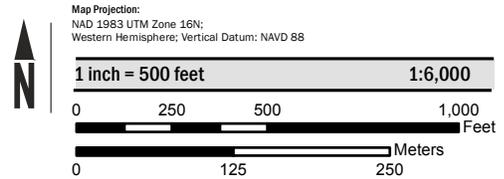
3RD ST

ADAMS ST



- SPECIAL FLOOD HAZARD AREAS**
- Without Base Flood Elevation (BFE)  
Zone A, V, A99  
With BFE or Depth Zone AE, AO, AH, VE, AR
  - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
  - Future Conditions 1% Annual Chance Flood Hazard Zone X
  - Area with Reduced Flood Risk due to Levee See Notes. Zone X

SCALE



FEMA  
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM  
FLOOD INSURANCE RATE MAP

KANE COUNTY, ILLINOIS  
AND INCORPORATED AREAS

PANEL 157 OF 410

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
CARPENTERSVILLE, VILLAGE OF	170322	0157	H
EAST DUNDEE, VILLAGE OF	170323	0157	H
KANE COUNTY	170896	0157	H
WEST DUNDEE, VILLAGE OF	170335	0157	H

REVISED TO REFLECT  
LOMR EFFECTIVE  
OCTOBER 5, 2017

VERSION NUMBER  
2.3.3.0

MAP NUMBER  
17089C0157H

EFFECTIVE DATE  
August 3, 2009