

Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

| COMMUNITY AND REVISION INFORMATION | | PROJECT DESCRIPTION | BASIS OF REQUEST | | | |
|---|---|---|---|---|--|--|
| COMMUNITY | City of Oshkosh Winnebago County Wisconsin COMMUNITY NO.: 550511 | | BRIDGE CHANNELIZATION DETENTION BASIN | BASE MAP CHANGES FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA | | |
| | | | | | | |
| IDENTIFIER | Sawyer Creek | | APPROXIMATE LATITUDE & LONGITUDE: 44.001, -88.611 SOURCE: USGS QUADRANGLE DATUM: NAD 83 | | | |
| ANNOTATED MAPPING ENCLOSURES | | ANNOTATED STUDY ENCLOSURES | | | | |
| TYPE: FIRM* TYPE: FIRM TYPE: FIRM | NO.: 55139C0310E DATE: M | arch 17, 2003 arch 17, 2003 arch 17, 2003 | DATE OF EFFECTIVE FLOOD INSURANCE STUDY: March 17, 2003 PROFILES: 31P, 32P, AND 33P FLOODWAY DATA TABLE: 5 SUMMARY OF DISCHARGES TABLE: 3 | | | |

Enclosures reflect changes to flooding sources affected by this revision.

FLOODING SOURCE & REVISED REACH

Sawyer Creek - From the confluence with Fox River to approximately 6,700 feet upstream of Clairville Road

| SUMMARY OF REVISIONS | | | | | | |
|--------------------------------|--------------------|------------------|-----------|-----------|--|--|
| Flooding Source | Effective Flooding | Revised Flooding | Increases | Decreases | | |
| Sawyer Creek | Zone AE | Zone AE | YES | YES | | |
| | Zone X (shaded) | Zone X (shaded) | YES | YES | | |
| | BFEs* | BFEs | YES | YES | | |
| | Floodway | Floodway | YES | YES | | |
| * 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 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 our website at http://www.fema.gov/nfip.

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

^{*} FIRM - Flood Insurance Rate Map

TYPE:

FIRM*

Issue Date: November 6, 2018

Effective Date: March 27, 2019

Case No.: 18-05-2015P

LOMR-APP



Federal Emergency Management Agency

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 550537 Name: Unincorporated Areas of Winnebago County, Wisconsin

AFFECTED MAP PANELS

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

NO.: 55139C0215E

DATE: March 17, 2003

DATE OF EFFECTIVE FLOOD INSURANCE STUDY: March 17, 2003

TYPE: FIRM NO.: 55139C0310E DATE: March 17, 2003 PROFILES: 31P, 32P, AND 33P TYPE: FIRM NO.: 55139C0330E DATE: March 17, 2003 FLOODWAY DATA TABLE: 5

SUMMARY OF DISCHARGES TABLE: 3

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, 3601 Eisenhower Avenue, Suite 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)

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 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 our website at http://www.fema.gov/nfip.

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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:

Ms. Mary Beth Caruso
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 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, 3601 Eisenhower Avenue, Suite 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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Federal Insurance and Mitigation Administration

18-05-2015P

102-I-A-C

Issue Date: November 6, 2018

Effective Date: March 27, 2019

Case No.: 18-05-2015P

LOMR-APP



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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: Oshkosh Northwestern

Dates: November 20, 2018 and November 27, 2018

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, 3601 Eisenhower Avenue, Suite 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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Federal Insurance and Mitigation Administration

REVISED DATA

TABLE 3 – SUMMARY OF DISCHARGES - continued

| | | | PEAK DISCH | IARGES (cfs) | |
|--|---------------------------|---------|----------------|--------------|----------|
| FLOODING SOURCE AND LOCATION | DRAINAGE AREA (sq. miles) | 10-YEAR | <u>50-YEAR</u> | 100-YEAR | 500-YEAR |
| RUSH CREEK/WAUKAU | | _ | | | |
| CREEK (continued) Approximately 3,650 feet | | | | | |
| upstream of confluence of Eight | | | | | |
| Mile Creek | * | 328 | 507 | 593 | 780 |
| Approximately 6,550 feet | | 525 | | 0,0 | , 00 |
| downstream of Rush Lake | * | 216 | 335 | 391 | 515 |
| Approximately 4,100 feet | | | | | |
| downstream of Rush Lake | * | 105 | 163 | 190 | 250 |
| SAWYER CREEK | | | | , | , |
| At mouth | 15.73 | 1,094 | 2,020 | 2,542 | 3,083 |
| Downstream of Westfield Street | 15.48 | 1,080 | 1,997 | 2,514 | 3,052 |
| At U.S. Route 41 | 15.08 | 1,056 | 1,971 | 2,474 | 3,006 |
| Upstream of Oakwood Road | 11.54 | 881 | 1,572 | 2,042 | 2,555 |
| Upstream of Clairville Road | 9.21 | 746 | 1,306 | 1,714 | 2,152 |
| At river mile 6.45 | 7.14 | 537 | 1,018 | 1,391 | 1,743 |
| UNNAMED TRIBUTARY AT | | ì | | | |
| WILLOW HARBOR | | | | | |
| Downstream limit of study | 6.58 | 525 | 940 | 1,150 | 1,735 |
| UNNAMED TRIBUTARY ON | | | | | |
| LITTLE LAKE BUTTE DES | | | | | |
| MORTS | | | | | |
| Downstream limit of study | 6.30 | 500 | 950 | 1,200 | 1,830 |
| VANDYNE CREEK | | | | | |
| Downstream limit of study | 12.23 | 750 | 1,375 | 1,700 | 2,580 |
| | | | | | |
| WOLF RIVER | 2.214 | 14 110 | 20.200 | 20.200 | 20 455 |
| Downstream limit of study | 3,314 | 14,110 | 20,300 | 20,200 | 30,455 |
| WOLF RIVER/LAKE BUTTE | | | | | |
| DES MORTS | | | | | |
| At southern corporate limits | 3,314 | 14,110 | 20,300 | 20,200 | 30,455 |
| | | | | | |

^{*}Data not available

The stillwater elevations have been determined for the 10-, 50-, 100-, and 500-year floods for all lakes studied by detailed methods and are summarized in Table 4, "Summary of Stillwater Elevations."

REVISED TO REFLECT LOMR

EFFECTIVE: March 27, 2019

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER SURFACE ELEVATION | | | |
|-----------------|-----------------------|-----------------|----------------------------------|--|---------------------------------------|---------------------|------------------|----------|
| | | | | | | (FEET NG | VD) | |
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Sawyer Creek | | | | | | | | |
| A | 153 | 207 | 1748 | 1.5 | 749.8 | 748.8 ² | 748.8 | - 0.0 |
| В | 283 | 116 | 996 | 2.6 | 749.8 | 748.8 ² | 748.8 | 0.0 |
| С | 618 | 126 | 1136 | 2.3 | 749.8 | 748.9 ² | 748.9 | 0.0 |
| D | 1058 | 218 | 2306 | 1.1 | 749.8 | 749.1 ² | 749.1 | 0.0 |
| E | 1433 | 185 | 1232 | 2.2 | 749.8 | 749.1 ² | 749.1 | 0.0 |
| F | 1906 | 166 | 938 | 2.7 | 749.8 | 749.1 ² | 749.1 | 0.0 |
| G | 2368 | 170 | 706 | 3.6 | 749.8 | 749.3 ² | 749.3 | 0.0 |
| Н | 2813 | 274 | 1211 | 2.2 | 749.8 | 749.7 ² | 749.7 | 0.0 |
| 1 | 3403 | 199 | 681 | 3.8 | 749.9 | 749.9 | 749.9 | 0.0 |
| J | 4208 | 269 | 1415 | 2.6 | 750.8 | 750.8 | 750.8 | 0.0 |
| К | 4893 | 342 | 974 | 2.9 | 751.2 | 751.2 | 751.2 | 0.0 |
| L | 5368 | 184 | 1193 | 2.9 | 751.9 | 751.9 | 751.9 | 0.0 |
| М | 5953 | 85 | 471 | 5.7 | 753.9 | 753.9 | 753.9 | 0.0 |
| N | 6271 | 75 | 400 | 6.2 | 755.0 | 755.0 | 755.0 | 0.0 |
| 0 | 6612 | 82 | 454 | 5.5 | 756.3 | 756.3 | 756.3 | 0.0 |
| Р | 6869 | 67 | 516 | 5.7 | 756.9 | 756.9 | 756.9 | 0.0 |
| Q | 7818 | 274 | 1313 | 1.9 | 758.1 | 758.1 | 758.1 | 0.0 |
| R | 9024 | 218 | 998 | 2.4 | 759.6 | 759.6 | 759.6 | 0.0 |
| S | 10,514 | 119 | 497 | 4.8 | 762.3 | 762.3 | 762.3 | 0.0 |

¹ Feet above confluence with Fox River

TABLE 5

WINNEBAGO COUNTY, WI AND INCORPORATED AREAS

FEDERAL EMERGENCY MANAGEMENT AGENCY

FLOODWAY DATA

SAWYER CREEK

REVISED TO

REFLECT LOMR

EFFECTIVE: March 27, 2019

REVISED DATA

² Elevation computed without consideration of backwater effects from Fox River

| 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 | WITH FLOODWAY | INCREASE |
| Sawyer Creek (continued) | | | | , | | | | |
| T | 11,914 | 108 | 466 | 5.1 | 765.8 | 765.8 | 765.8 | 0.0 |
| U | 12,155 | 82 | 442 | 5.7 | 766.3 | 766.3 | 766.3 | 0.0 |
| V | 13,585 | 341 | 1276 | 1.7 | 768.5 | 768.5 | 768.5 | 0.0 |
| W | 14,750 | 285 | 1122 | 1.9 | 769.6 | 769.6 | 769.6 | 0.0 |
| Х | 16,420 | 238 | 878 | 2.5 | 771.5 | 771.5 | 771.5 | 0.0 |
| Y | 16,820 | 351 | 862 | 2.5 | 772.0 | 772.0 | 772.0 | 0.0 |
| Z | 17,127 | 162 | 764 | 3.6 | 773.1 | 773.1 | 773.1 | 0.0 |
| AA | 17,422 | 407 | 640 | 3.4 | 774.0 | 774.0 | 774.0 | 0.0 |
| AB | 17,982 | 289 | 744 | 2.8 | 775.0 | 775.0 | 775.0 | 0.0 |
| AC | 18,322 | 290 | 323 | 6.5 | 775.4 | 775.4 | 775.4 | 0.0 |
| AD | 19,002 | 126 | 787 | 4.3 | 778.7 | 778.7 | 778.7 | 0.0 |
| AE | 19,155 | 112 | 548 | 3.7 | 779.6 | 779.6 | 779.6 | 0.0 |
| AF | 20,075 | 236 | 876 | 2.5 | 781.5 | 781.5 | 781.5 | 0.0 |
| AG | 22,475 | 207 | 777 | 2.5 | 789.5 | 789.5 | 789.5 | 0.0 |
| АН | 26,305 | 238 | 576 | 3.0 | 796.3 | 796.3 | 796.3 | 0.0 |
| Al | 27,078 | 152 | 358 | 4.9 | 797.5 | 797.5 | 797.5 | 0.0 |
| AJ | 27,425 | 94 | 539 | 3.5 | 799.4 | 799.4 | 799.4 | 0.0 |
| | | | | | | | | |

¹ Feet above confluence with Fox River

TABLE 5

FEDERAL EMERGENCY MANAGEMENT AGENCY

WINNEBAGO COUNTY, WI AND INCORPORATED AREAS

FLOODWAY DATA

SAWYER CREEK

REVISED TO REFLECT LOMR

EFFECTIVE: March 27, 2019

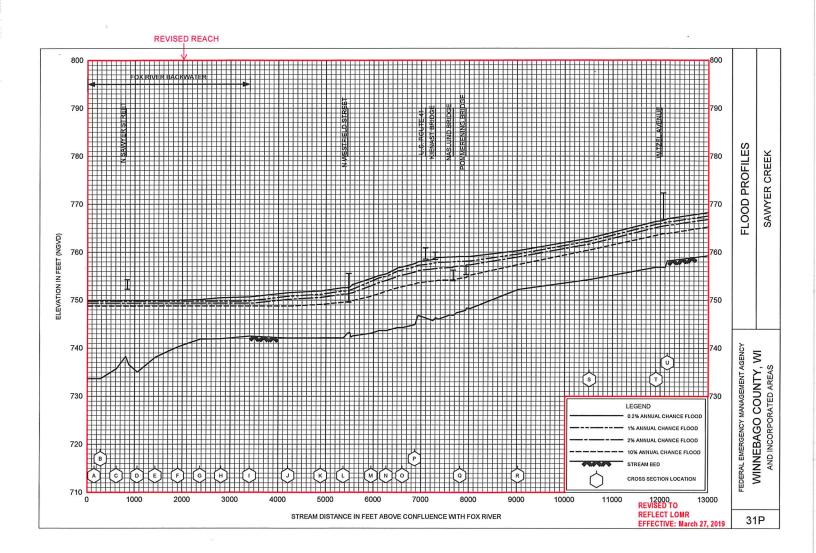
REVISED AREA

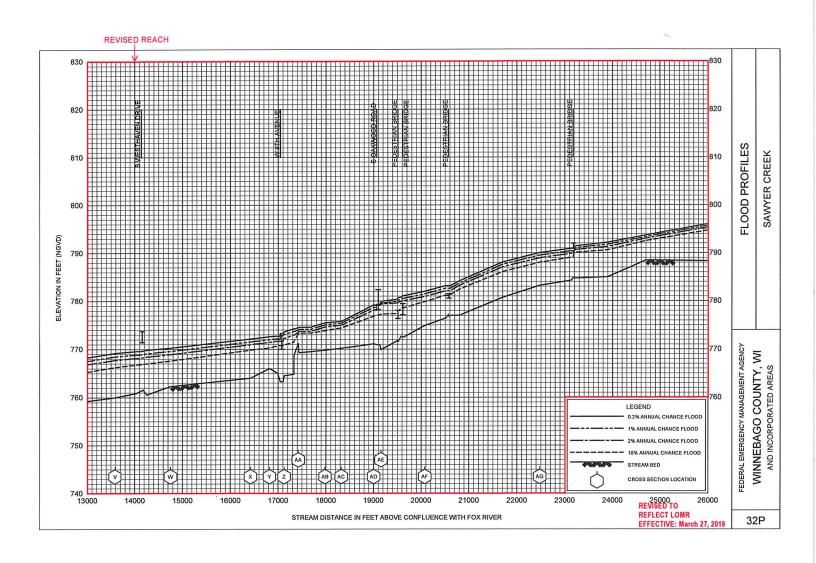
| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER SURFACE ELEVATION (FEET NGVD) | | | |
|------------------------------------|-----------------------|-----------------|----------------------------------|--|--|---------------------|------------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Sawyer Creek | | 3 | | | | | | |
| (continued) | 20.420 | 163 | 570 | 3.2 | 801.2 | 801.2 | 801.2 | 0.0 |
| AK AL | 28,439 30,459 | 188 | 646 | 3.0 | 805.1 | 805.1 | 805.1 | 0.0 |
| AL AM | 32,179 | 161 | 482 | 3.0 | 808.4 | 808.4 | 808.4 | 0.0 |
| AN | 34,069 | 295 | 837 | 1.8 | 810.6 | 810.6 | 810.6 | 0.0 |
| ¹ Feet above confluence | awith Fay Diver | | | | | | | |
| | | | | | | | | |
| WINNEBAGO COUNTY, WI | | | | FLOODWAY DATA | | | | |
| M AND INCORPORATED AREAS | | | AS | SAWYER CREEK | | | | |

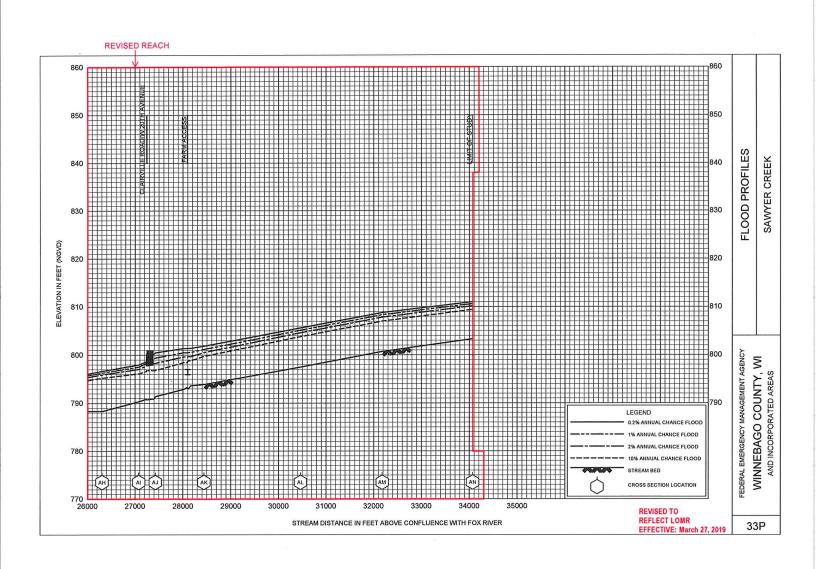
REVISED TO

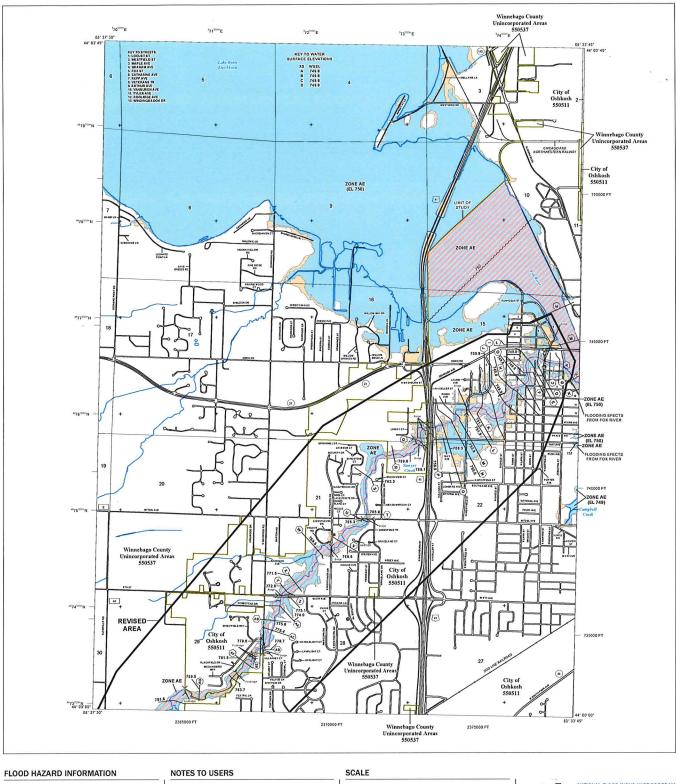
REFLECT LOMR EFFECTIVE: March 27, 2019

REVISED DATA









for information and questions about this map, analysis proteins assumed the PRAM endogen-philips and the PRAM and the PRAM endogen and the PRAM endogen and the PRAM endogen and the PRAM NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP FEMA Flood Insurance Program Map Projection: NAD 1927 UTM Zone 16N. Western Hemisphere: Vertical Datum: NGVD 29 IATION DEPICTED ON THIS MAP AND SUPPORTING KTON ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTP://MSC.FEMA.GOV 1 inch = 1,000 feet WINNEBAGO COUNTY, WISCONSIN 1:12,000 Communities annering land on adjacent FRM panels must obtain a current copy of the adjacent panel as well at the current FRM Index. To eae may be ordered directly from the Map Service Center at the number lated above 1,000 2,000 4,000 PANEL 215 of 365 Without Base Flood Elevation (BFE) Zone A.V. A99 With BFE or Depth Zone AE, AO, AH, VE, AR For community and countywide map dates refer to the Flood Insurance Study report for this jurisdation. To determine if flood insurance is available in the community, contact your insurance agent or call the National Flo SPECIAL FLOOD HAZARD AREAS FEMA Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1 % annual chance flood with average depth lies than one food or with drainage areas of less than one square mile Zove X Future Conditions 1 % Annual Chance Flood Hazard Zove X Area with Reduced Flood Risk due to Leve See Roles. Zove X Description of the Zove X Area Of Undetermined to be Outside the Ease map information shown on the FRM was provided in digital format by the Wisconsin Department of Natura. Resourcess: This information was photogrammetically compled by the Winnebago County Land Information System at a scale of 1,2400 from arrial photography dated 1991. Additional information may have been derived from other source. PANEL LOCATOR Panel Contains: NUMBER OSHAOSH, CITY OF WINNEEAGO COUNTY 550511 550537 0215 E 0215 E WINNEBAGO 0225 OTHER AREAS OF FLOOD HAZARD National **REVISED TO** OTHER REFLECT LOMR EFFECTIVE: March 27, 2019 Channel, Culvert, or Storm Sewer GENERAL STRUCTURES Levee, Dike, or Floodwall E Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation (BFE) Water Surface Elevation (BFE) Coastal Transect Coastal Transect Baseline Hydrographic Feature Base Flood Elevation Line (BFE) VERSION NUMBER 1.1.1.0 MAP NUMBER 55139C0215E Limit of Study OTHER MARCH 17, 2003 Jurisdiction Boundary

