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 Rochester Olmsted County Minnesota	CHANNEL RELOCATION EXCAVATION FILL	1D HYDRAULIC ANALYSIS FLOODWAY UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 275246		
IDENTIFIER	Cascade Stream Restoration LOMR	APPROXIMATE LATITUDE & LONGITUDE: 44.018, -92.525 SOURCE: OTHER DATUM: NAD 83	

ANNOTATED MAPPING ENCLOSURES	ANNOTATED STUDY ENCLOSURES
TYPE: FIRM* NO.: 27109C0144F DATE: April 19, 2017	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 21, 2023 PROFILES: 13P AND 14P FLOODWAY DATA TABLE: 8

Enclosures reflect changes to flooding sources affected by this revision.
* FIRM - Flood Insurance Rate Map

FLOODING SOURCE(S) & REVISED REACH(ES)

Cascade Creek - From just downstream of Country Club Road West / County Highway 34 to just downstream of 60th Avenue Southwest.

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Cascade Creek	BFEs*	BFEs	YES	YES
	Floodway	Floodway	YES	YES
	Zone AE	Zone AE	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES

* BFEs - Base (1-percent-annual-chance) 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 Mapping and Insurance 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 our website at https://www.fema.gov/flood-insurance.

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

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LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 270626 **Name:** Unincorporated Areas of Olmsted County, Minnesota

AFFECTED MAP PANELS	AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT
TYPE: FIRM NO.: 27109C0143E DATE: April 19, 2017 TYPE: FIRM NO.: 27109C0144F DATE: April 19, 2017	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: September 21, 2023 PROFILES: 13P AND 14P FLOODWAY DATA TABLE: 8

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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 flood discharges computed in the FIS for your community without considering subsequent changes in watershed characteristics that could increase flood discharges. Future development of projects upstream could cause increased flood discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on flood discharges subsequent to the publication of the FIS report for your community and could, therefore, 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.

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 Mapping and Insurance 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 our website at https://www.fema.gov/flood-insurance.

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LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)

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 revision has met our criteria for removing an area from the 1-percent-annual-chance floodplain to reflect the placement of fill. However, we encourage you to require that the lowest adjacent grade and lowest floor (including basement) of any structure placed within the subject area be elevated to or above the Base (1-percent-annual-chance) Flood Elevation.

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:

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 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 Mapping and Insurance 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 our website at https://www.fema.gov/flood-insurance.

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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: *Post Bulletin*

Dates: April 9, 2024 and April 16, 2024

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 Mapping and Insurance 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 our website at https://www.fema.gov/flood-insurance.

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FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CASCADE CREEK								
A	995	92	546	8.1	980.5	980.5	980.5	0.0
B	1,545	111	730	6.1	981.9	981.9	981.9	0.0
C	2,125	137	786	5.6	983.0	983.0	983.0	0.0
D	2,810	103	745	5.9	984.1	984.1	984.1	0.0
E	3,640	102	533	8.3	985.0	985.0	985.0	0.0
F	4,365	113	643	6.9	988.7	988.7	988.7	0.0
G	4,910	226	1,144	5.8	990.5	990.5	990.5	0.0
H	5,845	110	792	5.6	991.6	991.6	991.6	0.0
I	6,690	191	712	8.6	994.1	994.1	994.1	0.0
J	7,415	277	868	8.1	996.3	996.3	996.3	0.0
K	8,030	107	523	9.3	997.9	997.9	997.9	0.0
L	8,545	140	824	6.7	1,000.5	1,000.5	1,000.5	0.0
M	9,065	91	680	6.9	1,001.0	1,001.0	1,001.1	0.1
N	9,392	119	1,041	6.6	1,004.1	1,004.1	1,004.1	0.0
O	11,072	320	1,518	4.2	1,004.2	1,004.2	1,004.3	0.1
P	13,718	216	1,968	2.1	1,005.7	1,005.7	1,005.9	0.2
Q	15,429	169	1,573	2.3	1,008.0	1,008.0	1,008.1	0.1
R	17,764	58	288	12.9	1,008.8	1,008.8	1,008.9	0.1
S	21,528	350	1,076	3.4	1,025.0	1,025.0	1,025.1	0.1
T	26,542	702	3,017	1.2	1,035.7	1,035.7	1,036.2	0.5
U	27,854	413	1,083	3.4	1,037.1	1,037.1	1,037.5	0.4

[1]Feet above confluence with South Fork Zumbro River

REVISED DATA

REVISED TO
REFLECT LOMR
EFFECTIVE: August 14, 2024

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

OLMSTED COUNTY, MN
AND INCORPORATED AREAS

FLOODWAY DATA

CASCADE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CASCADE CREEK (CONTINUED)								
V	29,604	315	1,027	3.6	1,043.5	1,043.5	1,044.0	0.5
W	32,559	300	1,033	3.6	1,049.3	1,049.3	1,049.4	0.1
X	36,503	282	1,517	2.4	1,058.8	1,058.8	1,059.1	0.3

REVISED DATA

[1]Feet above confluence with South Fork Zumbro River

REVISED TO REFLECT LOMR EFFECTIVE: August 14, 2024

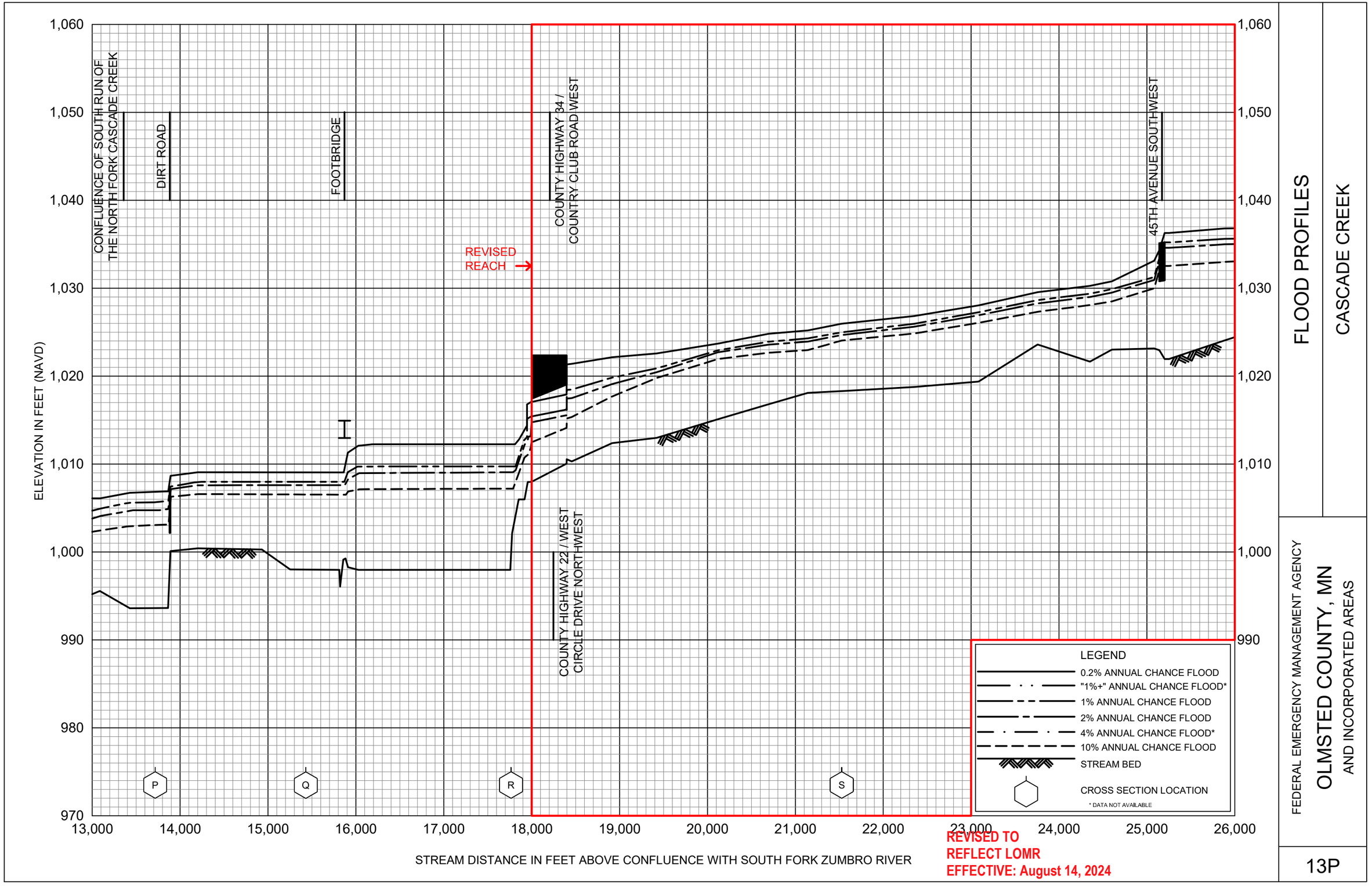
TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

OLMSTED COUNTY, MN
AND INCORPORATED AREAS

FLOODWAY DATA

CASCADE CREEK



REVISED TO
REFLECT LOMR
EFFECTIVE: August 14, 2024

FLOOD PROFILES

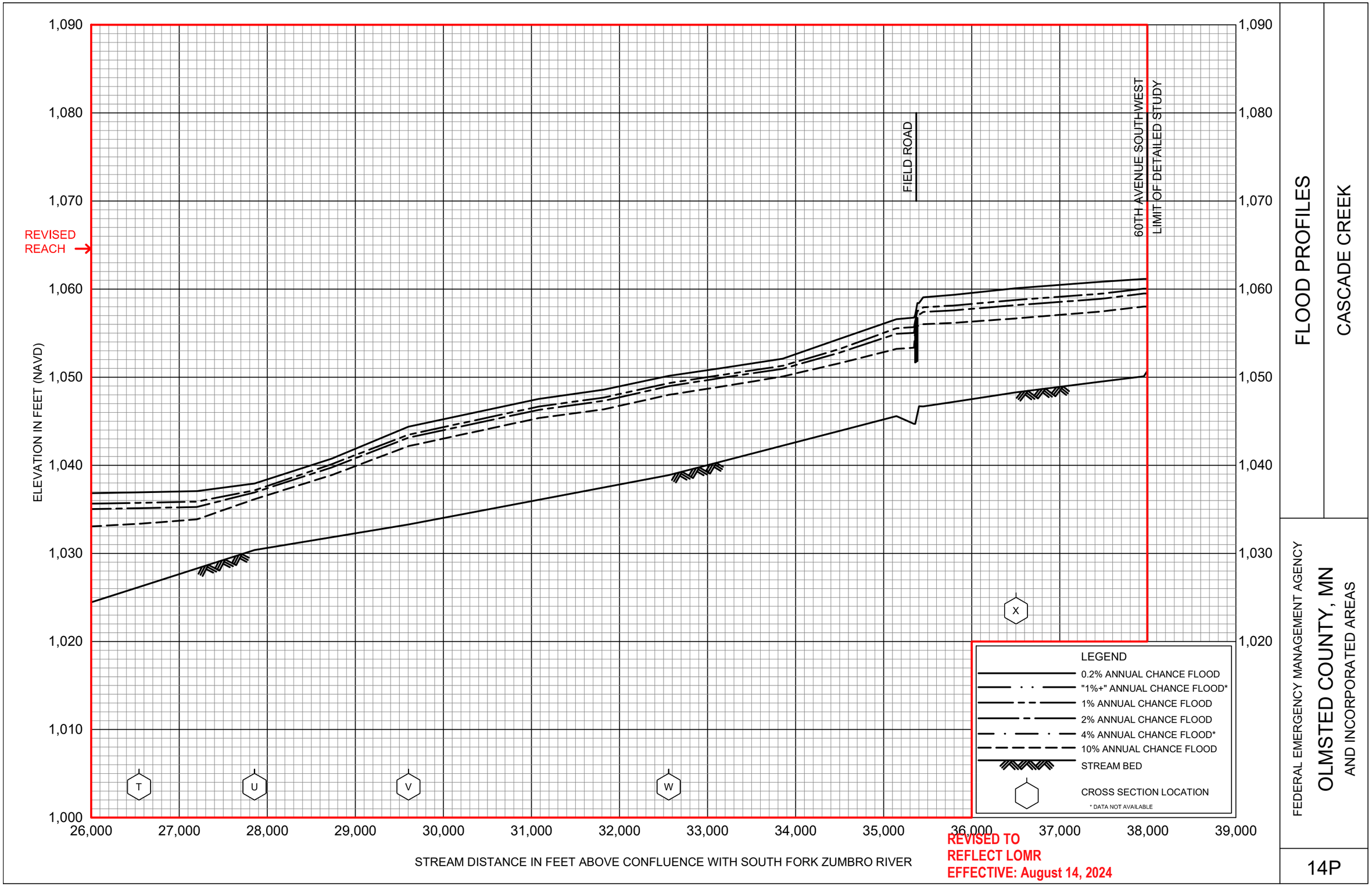
CASCADE CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

OLMSTED COUNTY, MN

AND INCORPORATED AREAS

13P



REVISED TO
REFLECT LOMR
EFFECTIVE: August 14, 2024

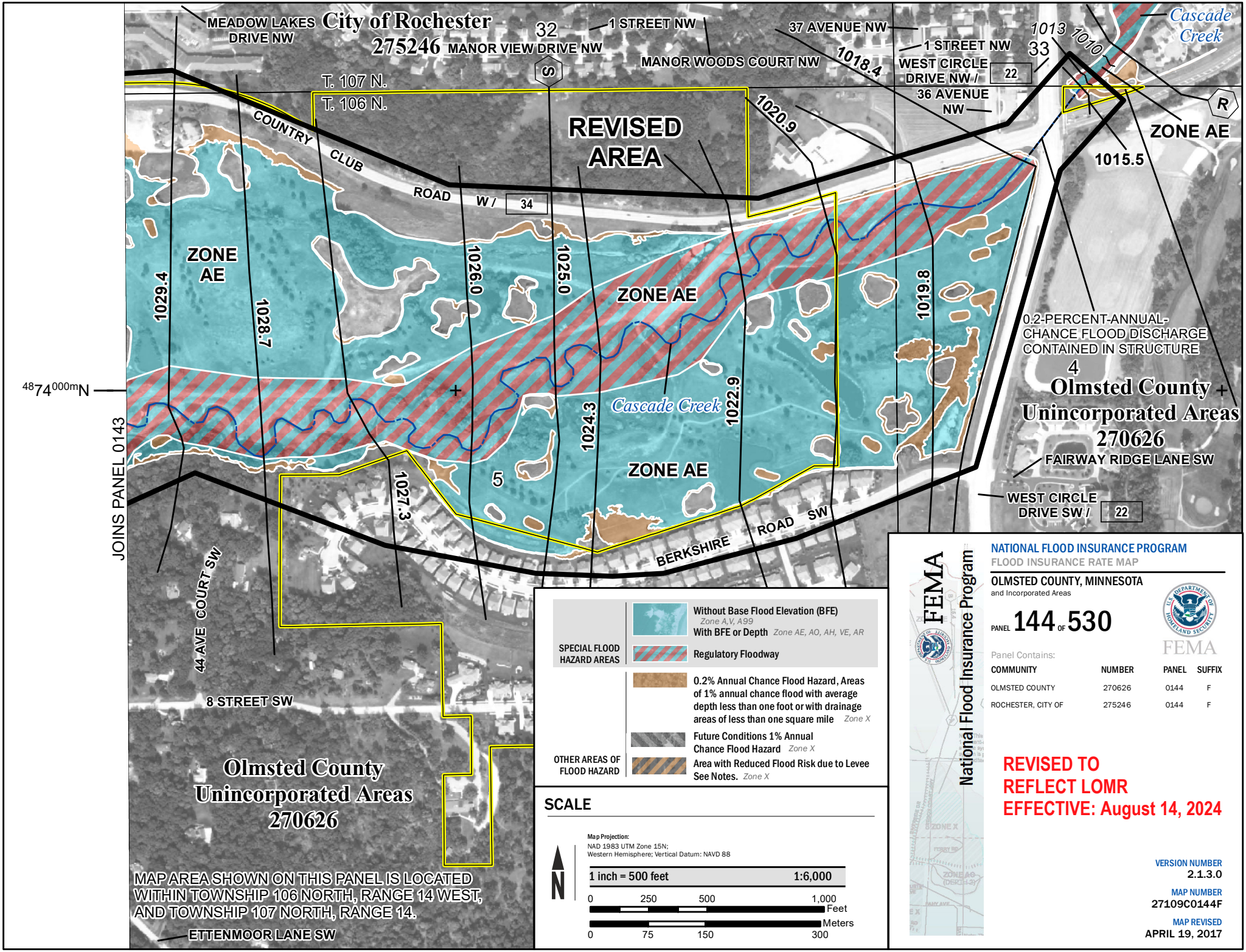
FLOOD PROFILES

CASCADE CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

OLMSTED COUNTY, MN

AND INCORPORATED AREAS


City of Rochester
275246
MEADOW LAKES DRIVE NW
MANOR VIEW DRIVE NW
1 STREET NW
MANOR WOODS COURT NW
37 AVENUE NW
1 STREET NW
WEST CIRCLE DRIVE NW / 22
36 AVENUE NW
Cascade Creek
T. 107 N.
T. 106 N.
COUNTRY CLUB ROAD W / 34
REVISED AREA
1020.9
1018.4
1013
1010
1015.5
ZONE AE
ZONE AE
1029.4
1028.7
1026.0
1025.0
1024.3
1022.9
1019.8
0.2-PERCENT-ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE
4
Olmsted County Unincorporated Areas
270626
FAIRWAY RIDGE LANE SW
WEST CIRCLE DRIVE SW / 22
4874000mN
JOINS PANEL 0143
1027.3
5
BERKSHIRE ROAD SW
44 AVE COURT SW
8 STREET SW
Olmsted County Unincorporated Areas
270626
MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 106 NORTH, RANGE 14 WEST, AND TOWNSHIP 107 NORTH, RANGE 14.
ETTENMOOR LANE SW
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
OTHER AREAS OF FLOOD HAZARD
Area with Reduced Flood Risk due to Levee See Notes. Zone X
SCALE
Map Projection:
NAD 1983 UTM Zone 15N;
Western Hemisphere; Vertical Datum: NAVD 88
1 inch = 500 feet 1:6,000
0 250 500 1,000 Feet
0 75 150 300 Meters
FEMA
National Flood Insurance Program
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
OLMSTED COUNTY, MINNESOTA
and Incorporated Areas
PANEL 144 OF 530
Panel Contains:
COMMUNITY NUMBER PANEL SUFFIX
OLMSTED COUNTY 270626 0144 F
ROCHESTER, CITY OF 275246 0144 F
REVISED TO REFLECT LOMR EFFECTIVE: August 14, 2024
VERSION NUMBER
2.1.3.0
MAP NUMBER
27109C0144F
MAP REVISED
APRIL 19, 2017