

Follows Conditional LOMR: 09-05-5088R



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	Clay County Minnesota (Unincorporated Areas)	BRIDGE CHANNELIZATION CULVERT DETENTION BASIN LEVEE	FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS LEVEE CERTIFICATION NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 275235		
IDENTIFIER	Oakport Flood Mitigation, Oakport Township West Levee	APPROXIMATE LATITUDE & LONGITUDE: 46.941, -96.783 SOURCE: Other DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM*	NO.: 27027C0308E DATE: April 17, 2012	DATE OF EFFECTIVE FLOOD INSURANCE STUDY: April 17, 2012	
TYPE: FIRM	NO.: 27027C0309E DATE: April 17, 2012	PROFILES: 24P AND 44P	
TYPE: FIRM	NO.: 27027C0316E DATE: April 17, 2012	FLOODWAY DATA TABLE: 3	
TYPE: FIRM	NO.: 27027C0317E DATE: April 17, 2012		
TYPE: FIRM	NO.: 27027C0328E DATE: April 17, 2012		
TYPE: FIRM	NO.: 27027C0329E DATE: April 17, 2012		
TYPE: FIRM	NO.: 27027C0340E DATE: April 17, 2012		

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCE & REVISED REACH

See Page 2 for Additional Flooding Source

Red River of the North - From approximately 8,000 feet downstream of Wall Street Avenue North / County Highway 22 to approximately 6,900 feet upstream of the divergence of Oakport Coulee

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Red River of the North	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. Sacbbit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency
Washington, D.C. 20472

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

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE & REVISED REACH

Oakport Coulee (County Ditch No. 20) - From approximately 1,500 feet downstream of 70th Avenue North / County Highway 93 to the divergence from Red River of the North

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Oakport Coulee (County Ditch No. 20)	Zone AE	Zone AE	YES	YES
	Floodway	Floodway	YES	YES
	BFEs	BFEs	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES

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

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 275244 **Name:** City of Moorhead, Minnesota

AFFECTED MAP PANELS

TYPE: FIRM	NO.: 27027C0308E	DATE: April 17, 2012
TYPE: FIRM	NO.: 27027C0309E	DATE: April 17, 2012
TYPE: FIRM	NO.: 27027C0316E	DATE: April 17, 2012
TYPE: FIRM	NO.: 27027C0317E	DATE: April 17, 2012
TYPE: FIRM	NO.: 27027C0328E	DATE: April 17, 2012
TYPE: FIRM	NO.: 27027C0329E	DATE: April 17, 2012
TYPE: FIRM	NO.: 27027C0340E	DATE: April 17, 2012

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY: April 17, 2012
PROFILES: 24P, 25P, 26P, 27P, AND 44P
FLOODWAY DATA 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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Patrick "Rick" F. Sacbbit, P.E., Branch Chief
Engineering Services Branch
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:

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.

Although the revision area is shown to be entirely within Clay County, a portion of Clay County has been annexed by the City of Moorhead. However, this LOMR does not reflect the updated corporate limits.

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)**

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: *Clay County Union*

Dates: February 5, 2018 and February 12, 2018

Since this revision affects both Unincorporated Areas of Clay County and the City of Moorhead, separate newspaper publication notices will be used for both communities. Because the second publication date for the City will be later than the second publication date for the County, the 90-day appeal period will begin on the City's second publication date of February 15, 2018. Within 90 days of the second publication in the local newspaper, a citizen 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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FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANGE-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)
OAKPORT COULEE								
A	2.619	424	3,717	0.9	892.8	892.8	893.3	0.5
B	3.316	516	3,828	0.9	893.0	893.0	893.5	0.5
C	4.449	400	4,593	0.7	893.3	893.3	893.7	0.4
D	6.064	1,002	5,071	0.7	895.4	895.4	895.7	0.3

REVISED DATA

¹Miles above convergence with Red River of the North

REVISED TO
REFLECT LOMR
EFFECTIVE: June 15, 2018

TABLE 3

FEDERAL EMERGENCY MANAGEMENT AGENCY

**CLAY COUNTY, MN
AND INCORPORATED AREAS**

FLOODWAY DATA

OAKPORT COULEE

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
RED RIVER OF THE NORTH (CONTINUED)								
U	27.819	665/282	12,884	2.0	893.0	893.0	893.4	0.4
V	29.162	1,050/760	15,080	1.7	893.9	893.9	894.3	0.4
W	29.996	550/250	10,967	2.4	894.4	894.4	894.8	0.4
X	30.266	490/254	8,721	3.0	894.5	894.5	894.9	0.4
Y	30.875	566/229	11,573	2.2	895.0	895.0	895.4	0.4
Z	32.731	1,310/777	19,766	1.3	895.7	895.7	896.0	0.3
AA	33.344	2,420/522	40,568	0.6	895.8	895.8	896.2	0.4
AB	34.131 ³	3,043/251	29,703	1.0	896.0	896.0	896.3	0.3
AC	34.894	1,622/1,256	19,156	1.5	896.3	896.3	896.6	0.3
AD	35.405	3,157/258	33,415	0.9	896.5	896.5	896.8	0.3
AE	35.993	992/723	16,418	1.8	896.6	896.6	896.9	0.3
AF	36.823	3,094/29	48,994	0.6	897.0	897.0	897.2	0.2
AG	37.769	0 792/295	14,825	2.0	897.3	897.3	897.5	0.2
AH	38.489	720/452	13,769	2.1	897.6	897.6	897.9	0.3
AI	39.437	1,013/708	17,779	1.7	898.2	898.2	898.5	0.3
AJ	40.386	927/708	16,620	1.8	899.1	899.1	899.5	0.4
AK	41.285	1,857/28	25,651	1.1	899.7	899.7	900.1	0.4
AL	42.284	3 616/526	11,254	2.6	900.3	900.3	900.6	0.3
AM	42.932	505/238	9,385	3.1	901.2	901.2	901.6	0.4
AN	44.235	724/267	14,606	2.0	902.3	902.3	902.8	0.5

REVISED DATA

¹Miles above county boundary
²Total width/Width within county

³The revised reach length between the County Boundary and effective station 34.768 increased by 0.126 miles. The cumulative distance of 34.894 miles is equivalent to 34.768 miles.

REVISED BY LOMR EFFECTIVE: NOVEMBER 11, 2016

TABLE 3

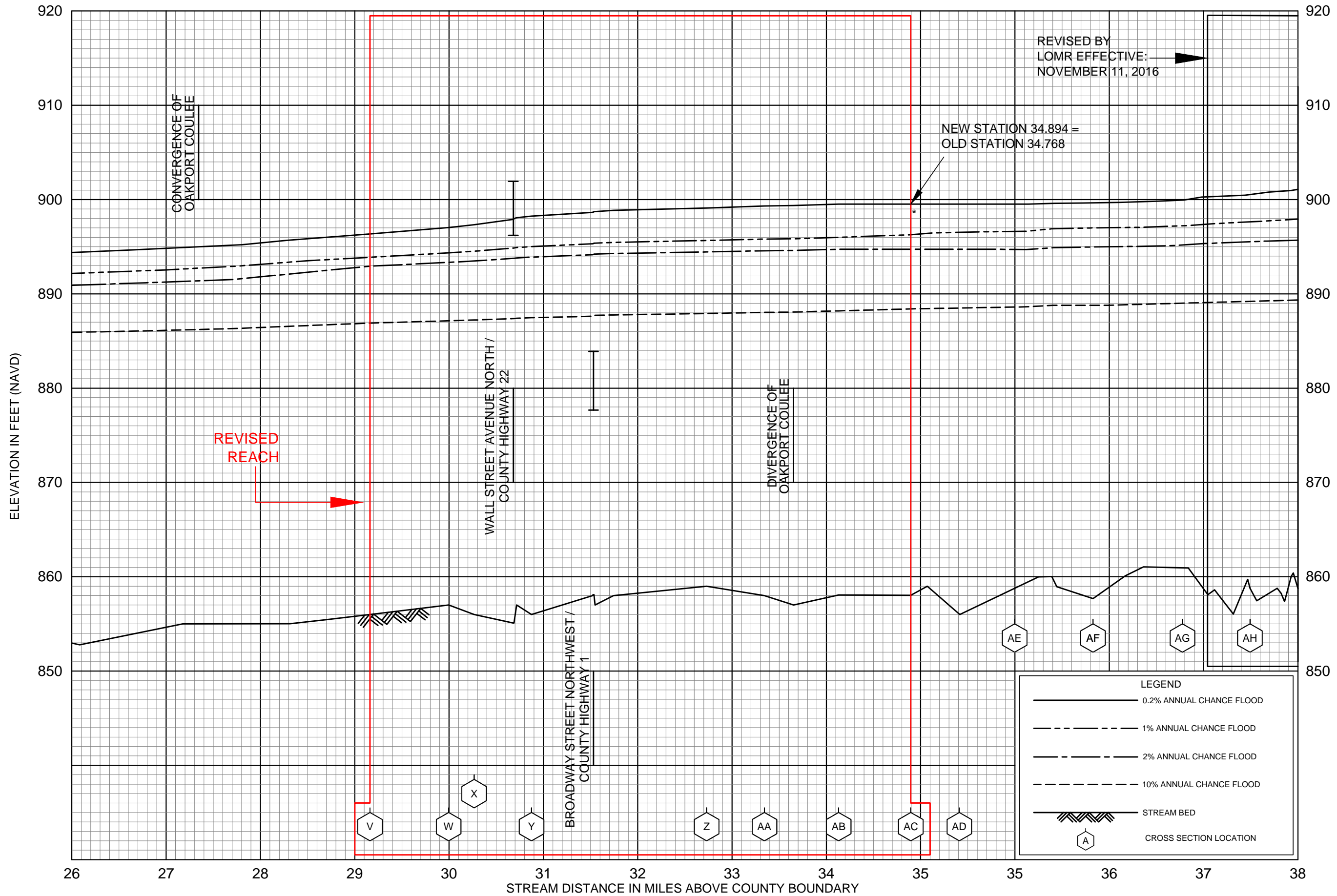
FEDERAL EMERGENCY MANAGEMENT AGENCY

**CLAY COUNTY, MN
AND INCORPORATED AREAS**

FLOODWAY DATA REVISED TO REFLECT LOMR

EFFECTIVE: June 15, 2018

RED RIVER OF THE NORTH



REVISED BY
LOMR EFFECTIVE:
NOVEMBER 11, 2016

NEW STATION 34.894 =
OLD STATION 34.768

REVISED
REACH

REVISED DATA → *The revised reach length between the County Boundary and effective station 34.768 increased by 0.126 miles. The cumulative distance of 34.894 miles is equivalent to 34.768 miles.

FLOOD PROFILES

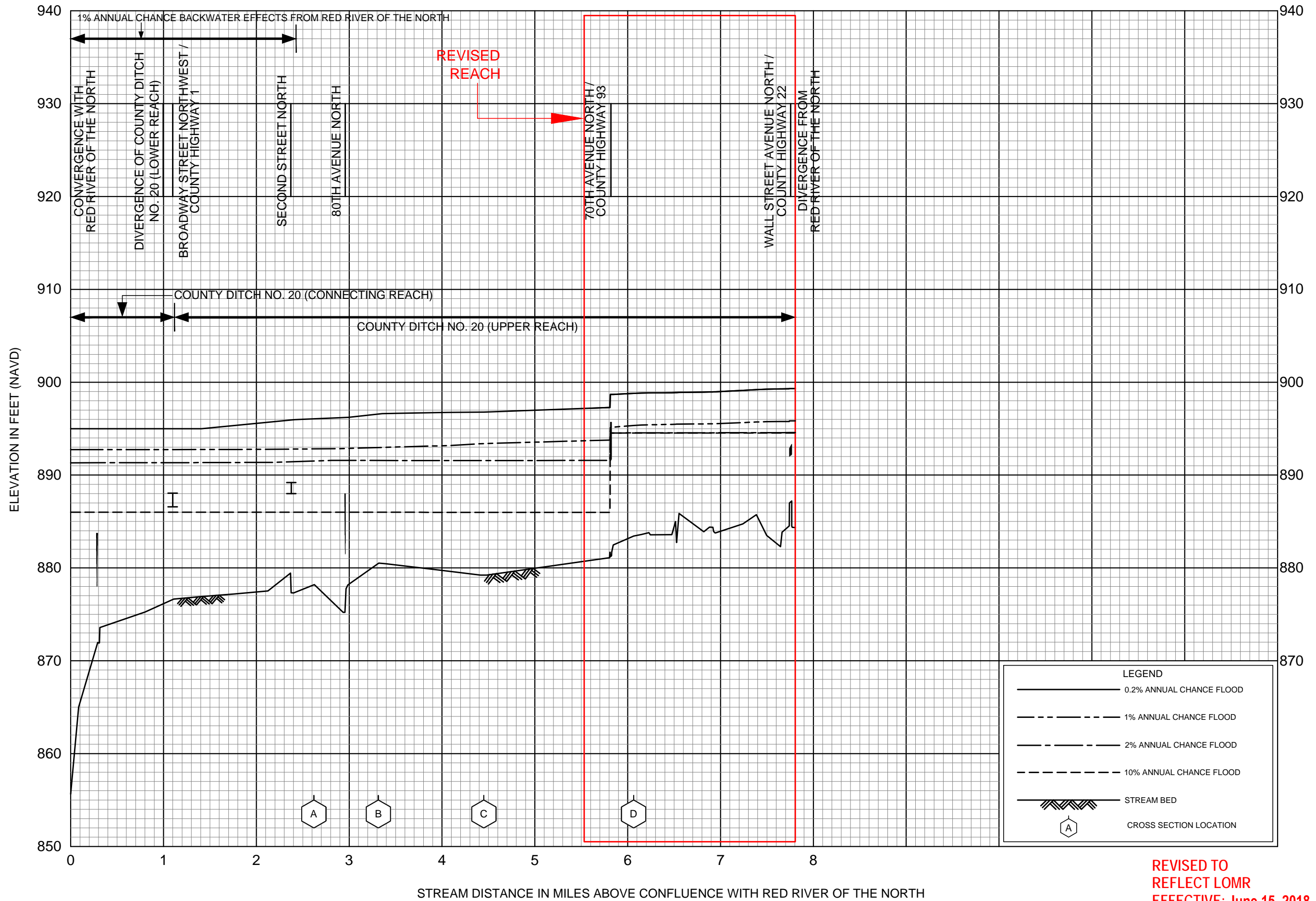
RED RIVER OF THE NORTH

FEDERAL EMERGENCY MANAGEMENT AGENCY

CLAY COUNTY, MN
AND INCORPORATED AREAS

24P

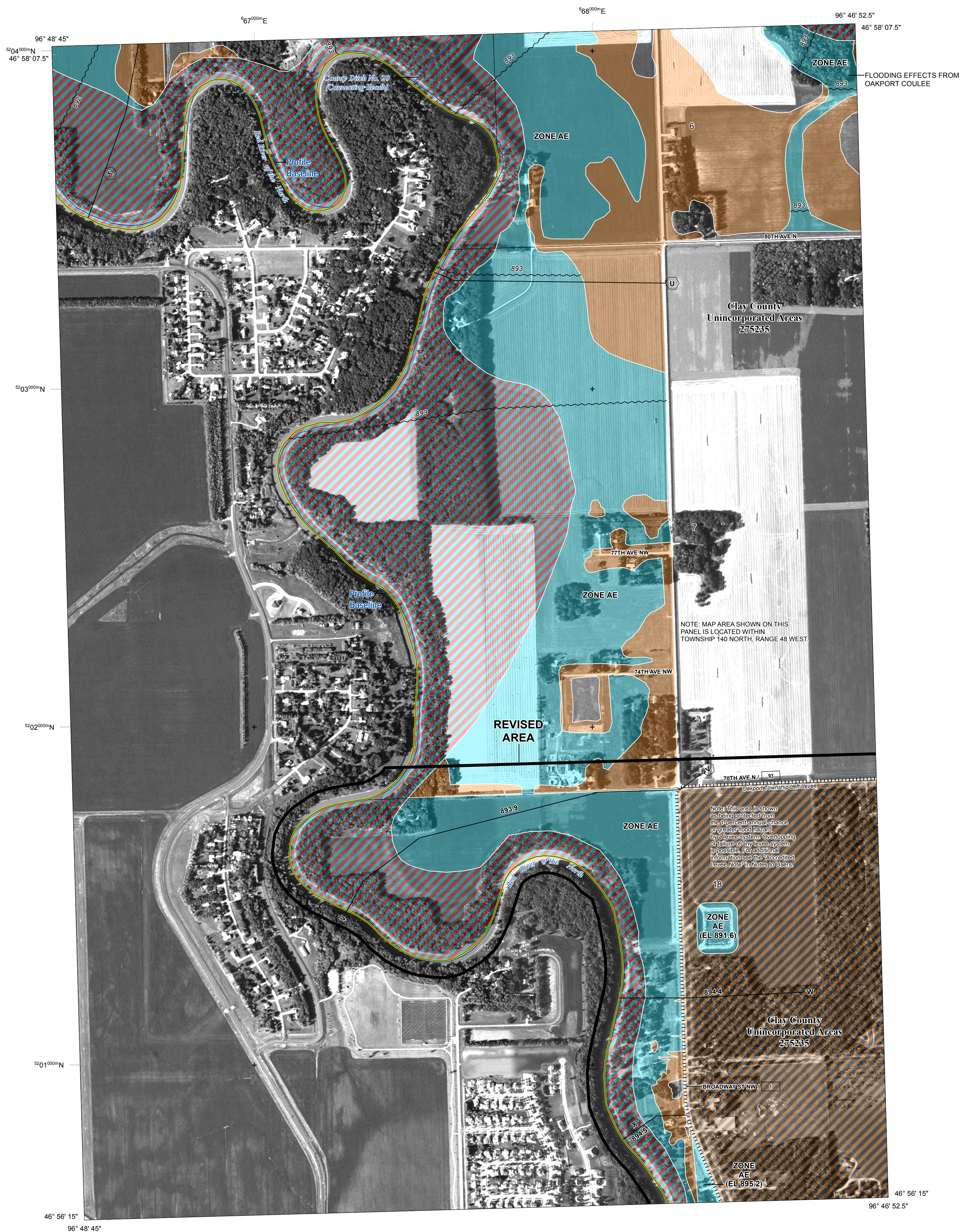
REVISED TO
REFLECT LOMR
EFFECTIVE: June 15, 2018



REVISED TO REFLECT LOMR EFFECTIVE: June 15, 2018

FLOOD PROFILES
OAKPORT COULEE

FEDERAL EMERGENCY MANAGEMENT AGENCY
CLAY COUNTY, MN
AND INCORPORATED AREAS



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP
 THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING
 DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTP://MSC.FEMA.GOV](http://MSC.FEMA.GOV)

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
OTHER AREAS		Areas Determined to be Outside the 0.2% Annual Chance Floodplain Zone X
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation (BFE) 18.2 17.5
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Map Service Center at the number listed above.

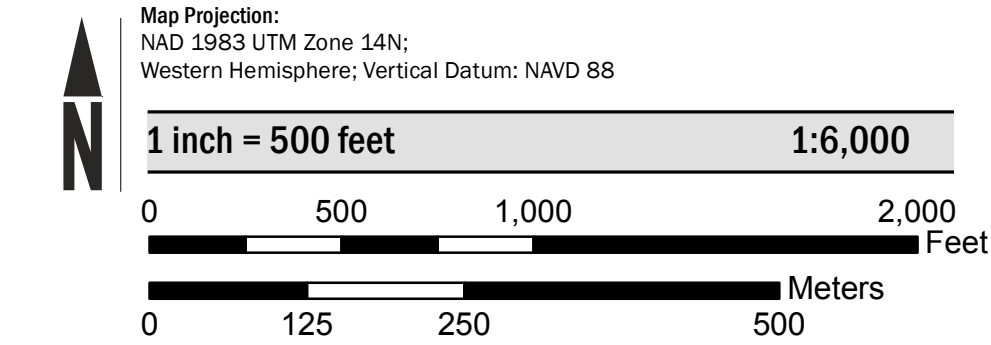
For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

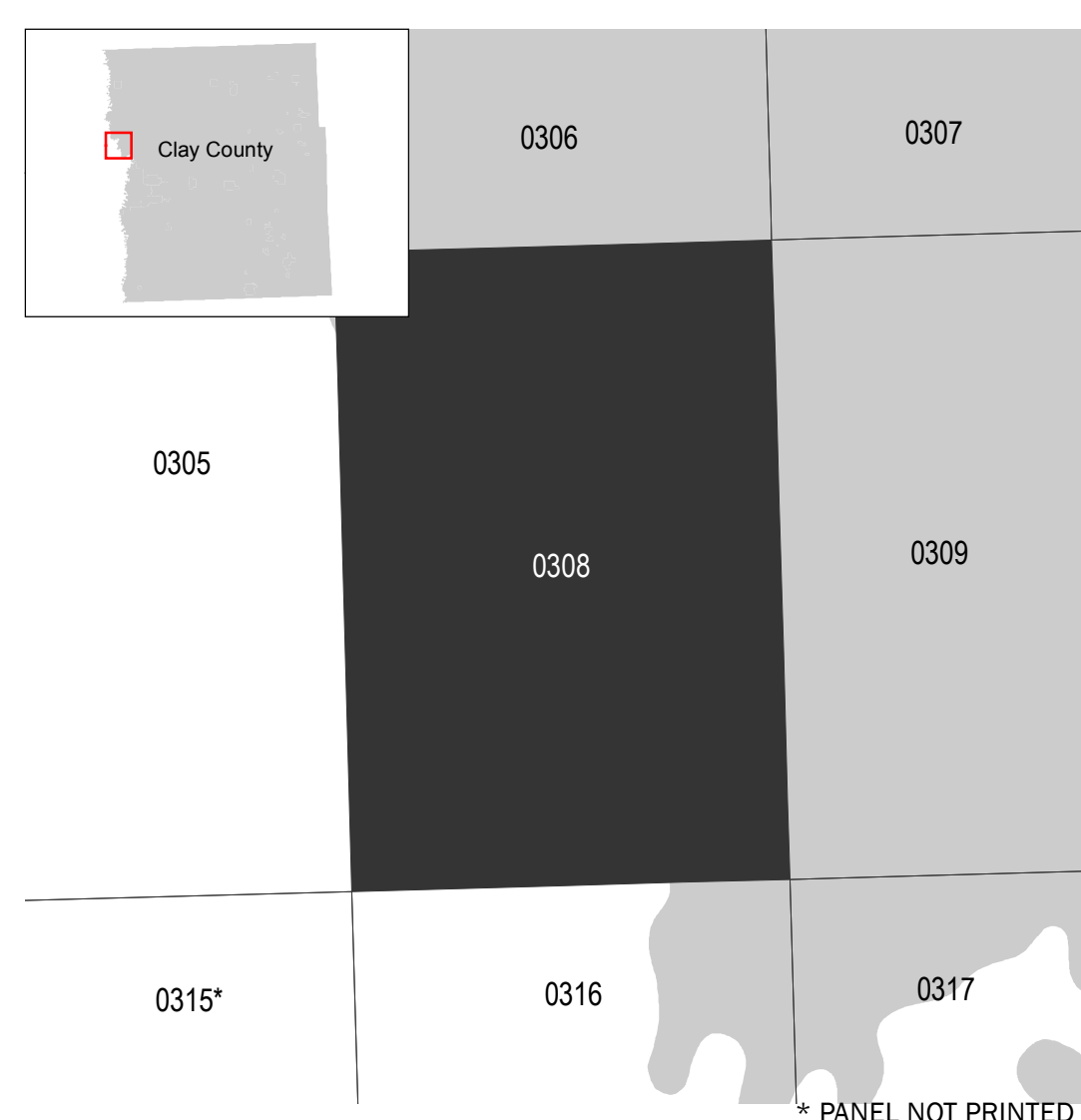
Base map information shown on this FIRM was derived from aerial photography produced for Clay County dated 2005 at a scale of 1:12,000 and aerial photography produced for USDA dated 2004 at a scale of 1:12,000.

ACCREDITED LEVEE: Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection for areas on this panel. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit <http://www.fema.gov/national-flood-insurance-program>.

SCALE



PANEL LOCATOR



National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP

CLAY COUNTY, MINNESOTA
 and Incorporated Areas
 PANEL 308 of 750

Panel Contains:

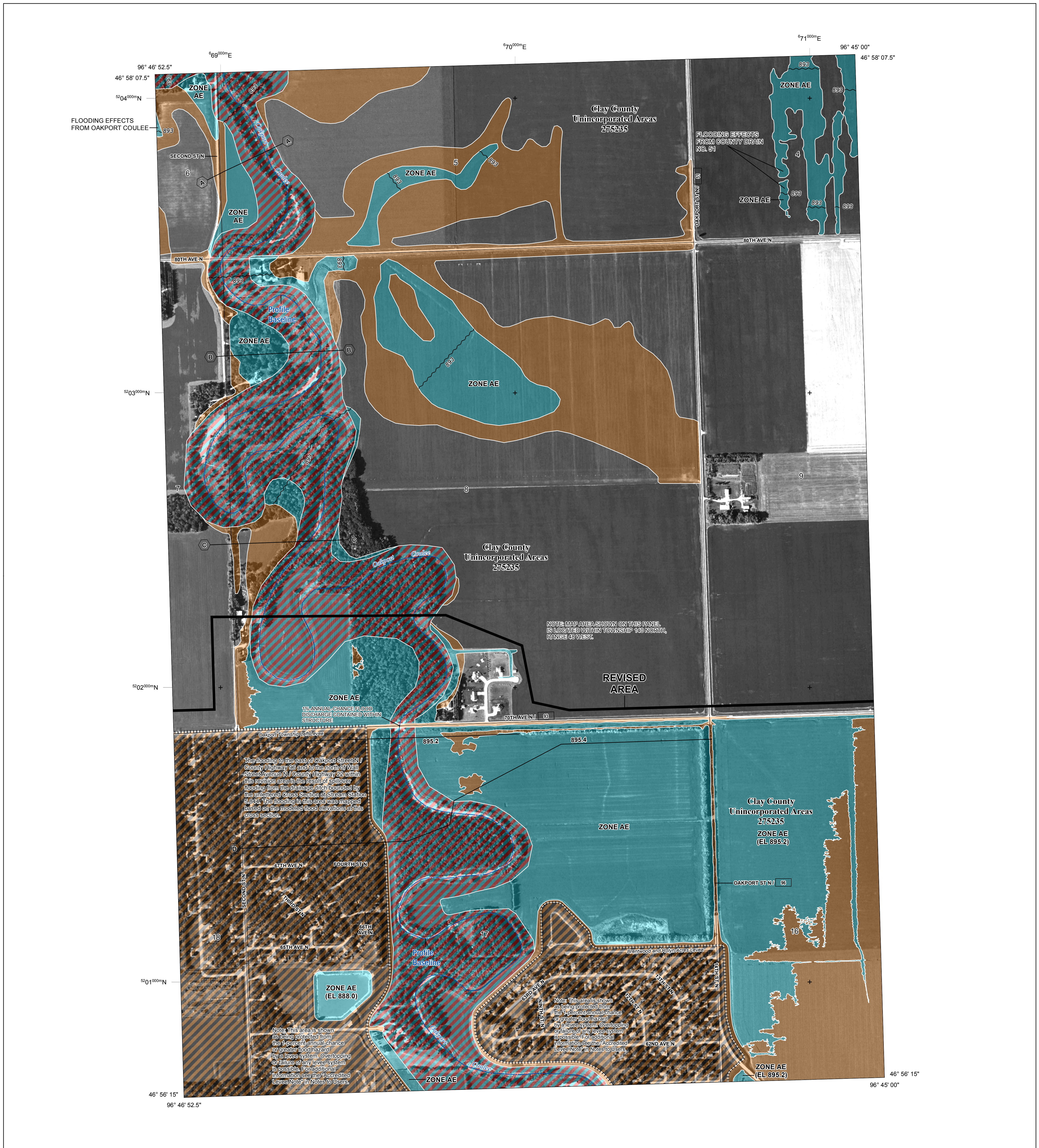
COMMUNITY	NUMBER	PANEL	SUFFIX
CLAY COUNTY	275235	0308	E

REVISED TO REFLECT LOMR EFFECTIVE: June 15, 2018

VERSION NUMBER
1.1.1.0

MAP NUMBER
27027C0308E

EFFECTIVE DATE
APRIL 17, 2012



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP
 THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING
 DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTP://MSC.FEMA.GOV](http://msc.fema.gov)

	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
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	Areas Determined to be Outside the 0.2% Annual Chance Floodplain Zone X
	Area of Undetermined Flood Hazard Zone D
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
	Coastal Transect
	Profile Baseline
	Hydrographic Feature
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary

NOTES TO USERS

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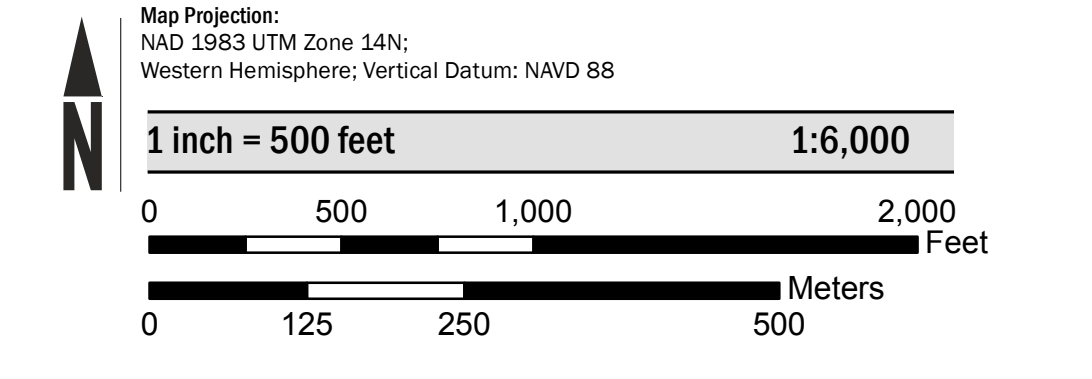
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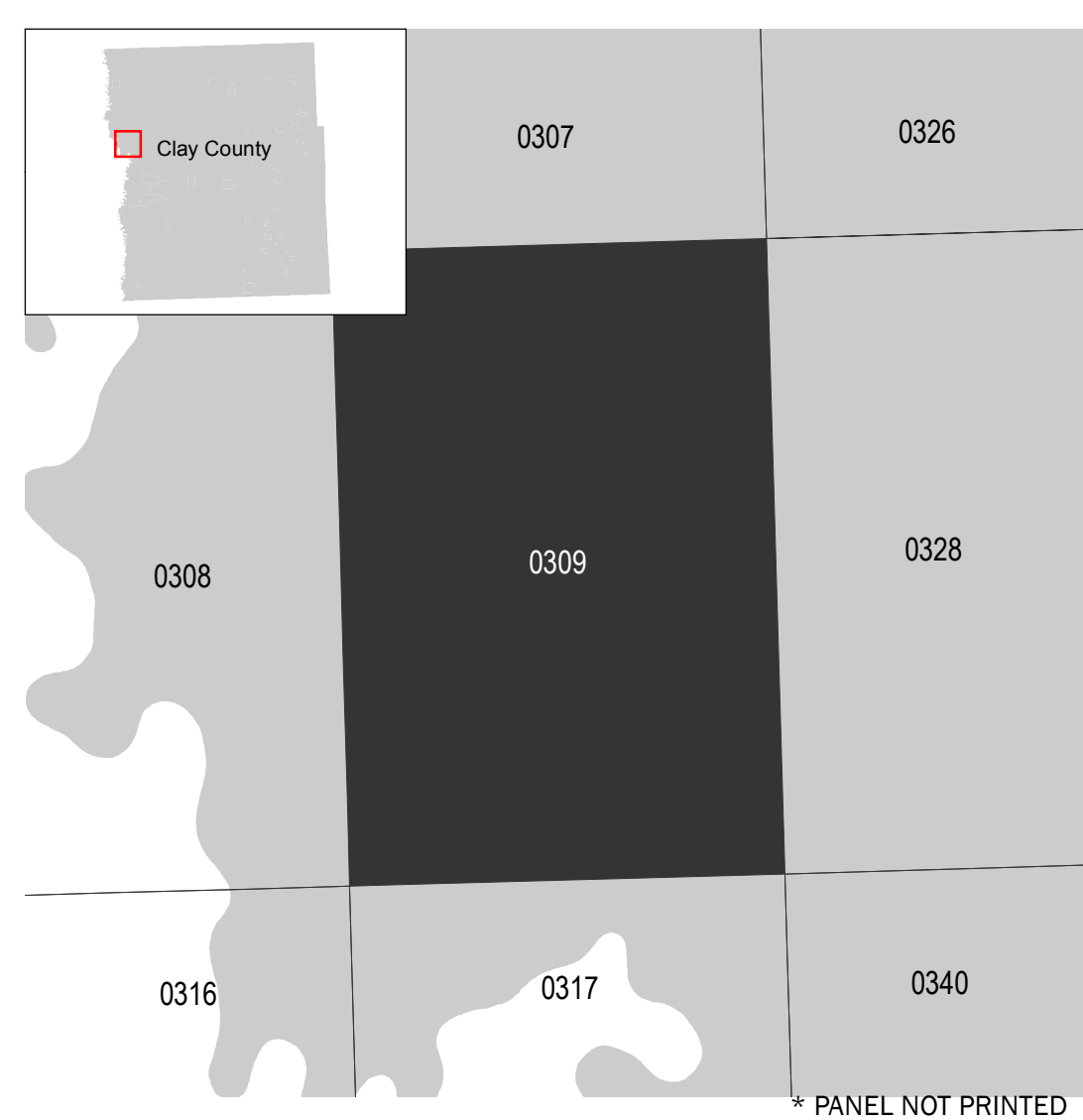
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ACCREDITED LEVEE: Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection for areas on this panel. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit <http://www.fema.gov/nationalflood-insurance-program>.

SCALE



PANEL LOCATOR



National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP

CLAY COUNTY, MINNESOTA
 and Incorporated Areas
 PANEL 309 of 750

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLAY COUNTY	275235	0309	E

REVISED TO REFLECT LOMR
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VERSION NUMBER
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27027C0309E

EFFECTIVE DATE
APRIL 17, 2012

NOTES TO USERS

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Note: This area is shown as being protected from the 1-percent-annual-chance or greater flood hazard by a levee system. Overtopping or failure of any levee system is possible. For additional information see the "Accredited Levee Note" in Notes to Users.

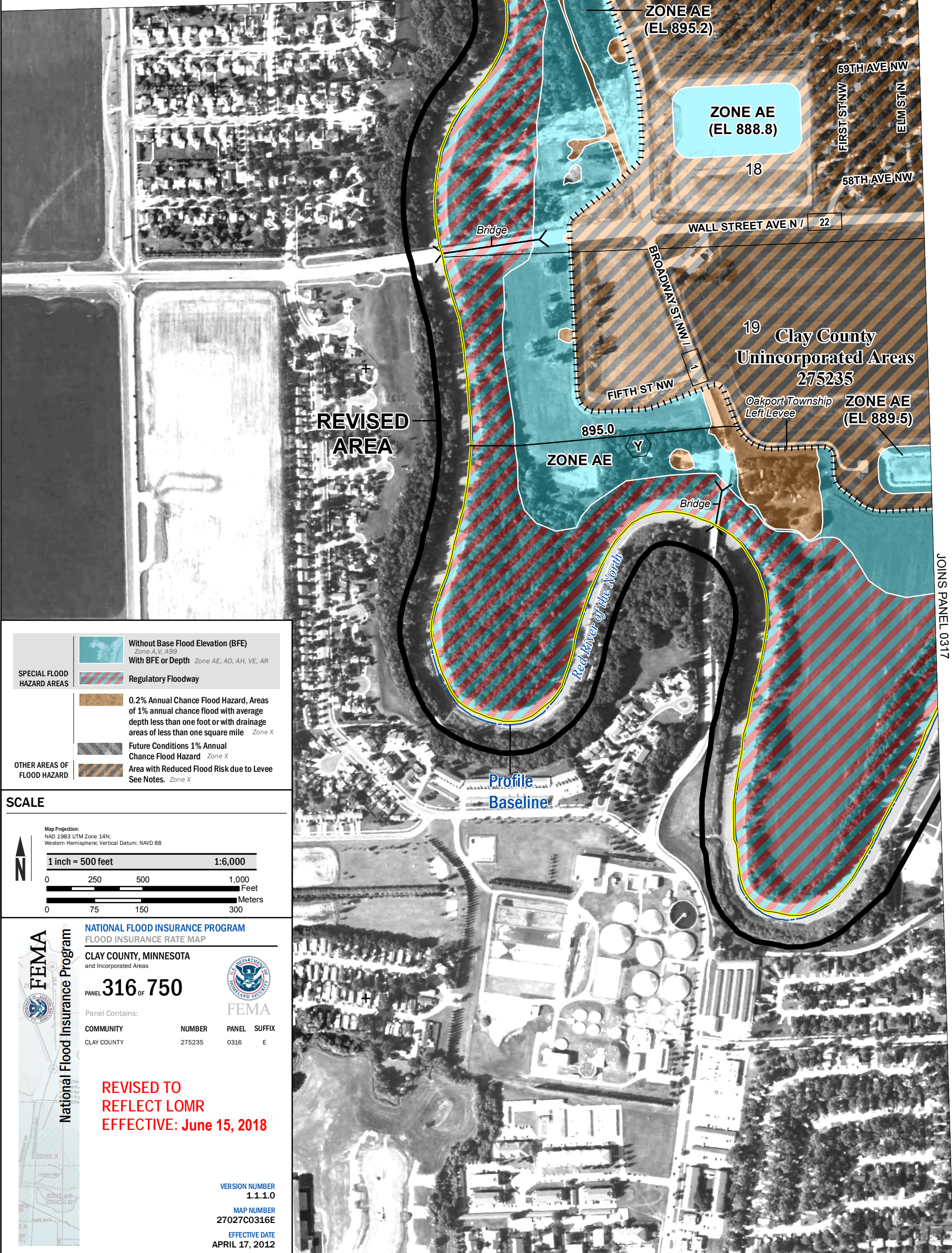
NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 140 NORTH, RANGE 48 WEST.

68°00'00"E

JOINS PANEL 0308

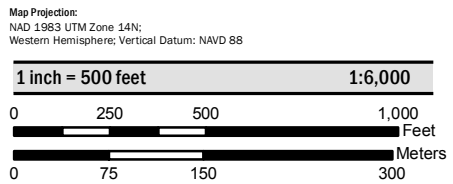
96° 46' 52.5"

46° 56' 15"



SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
OTHER AREAS OF FLOOD HAZARD		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

SCALE



NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

CLAY COUNTY, MINNESOTA
and Incorporated Areas

PANEL 316 OF 750

Panel Contains:

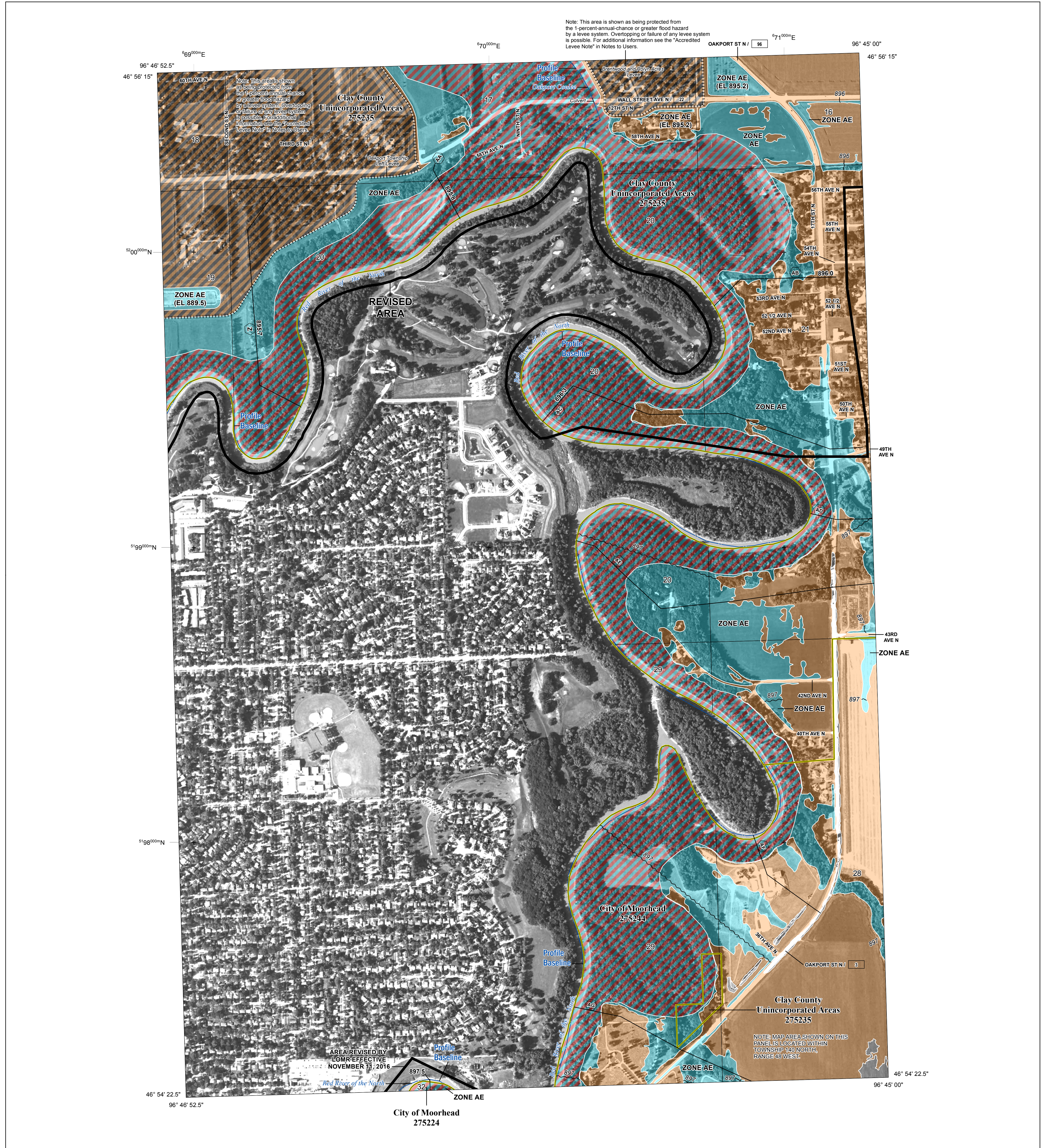
COMMUNITY	NUMBER	PANEL	SUFFIX
CLAY COUNTY	275235	0316	E

REVISED TO REFLECT LOMR
EFFECTIVE: June 15, 2018

VERSION NUMBER
1.1.1.0

MAP NUMBER
27027C0316E

EFFECTIVE DATE
APRIL 17, 2012



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP
 THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING
 DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTP://MSC.FEMA.GOV](http://MSC.FEMA.GOV)

	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
	Areas Determined to be Outside the 0.2% Annual Chance Floodplain Zone X
	Area of Undetermined Flood Hazard Zone D
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
	Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
	Coastal Transect
	Profile Baseline
	Hydrographic Feature
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.

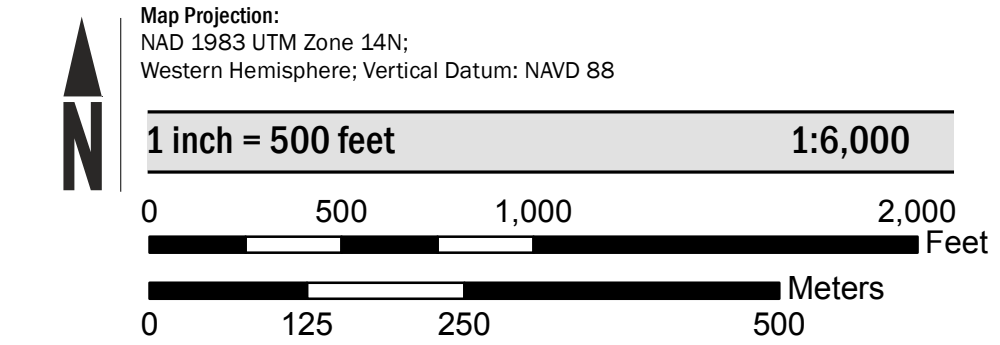
Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

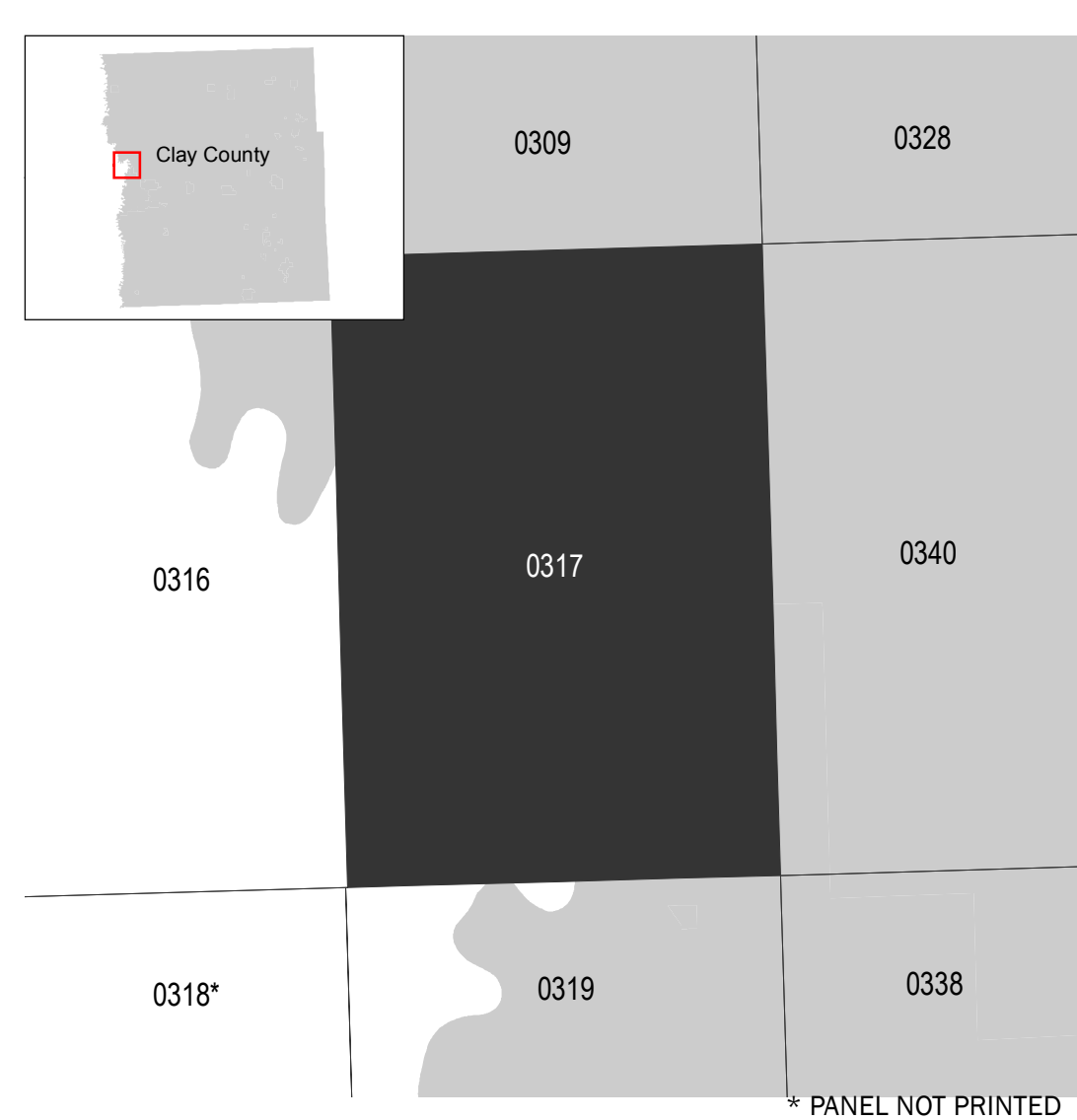
To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was derived from aerial photography produced for Clay County dated 2005 at a scale of 1:12,000 and aerial photography produced for USDA dated 2004 at a scale of 1:12,000.

SCALE



PANEL LOCATOR



National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP

CLAY COUNTY, MINNESOTA
 and Incorporated Areas
 PANEL 317 of 750

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLAY COUNTY	275235	0317	E
MOORHEAD, CITY OF	275244	0317	E

REVISED TO REFLECT LOMR EFFECTIVE: June 15, 2018

VERSION NUMBER
1.1.1.0

MAP NUMBER
27027C0317E

EFFECTIVE DATE
APRIL 17, 2012

REVISED AREA

52° 02' 00" N

52° 01' 00" N

46° 56' 15"

JOINS PANEL 0309

JOINS PANEL 0329



9

10

70TH AVE N

ZONE AE
(EL 895.2)

FLOODING EFFECTS
FROM COUNTY DITCH
NO. 20 (UPPER REACH)

BURLINGTON NORTHERN & SANTA FE RAILWAY

16

ZONE AE
(EL 895.2)

28TH ST N

ZONE AE
(EL 895.2)

15

Clay County
Unincorporated Areas
275235

NOTE: MAP AREA SHOWN ON THIS PANEL
IS LOCATED WITHIN TOWNSHIP 140 NORTH,
RANGE 48 WEST.

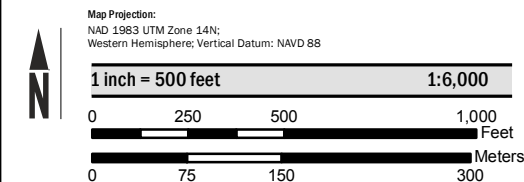
REVISED
AREA

JOINS PANEL 0340

96° 45' 00"

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
OTHER AREAS OF FLOOD HAZARD		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

SCALE



FEMA
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

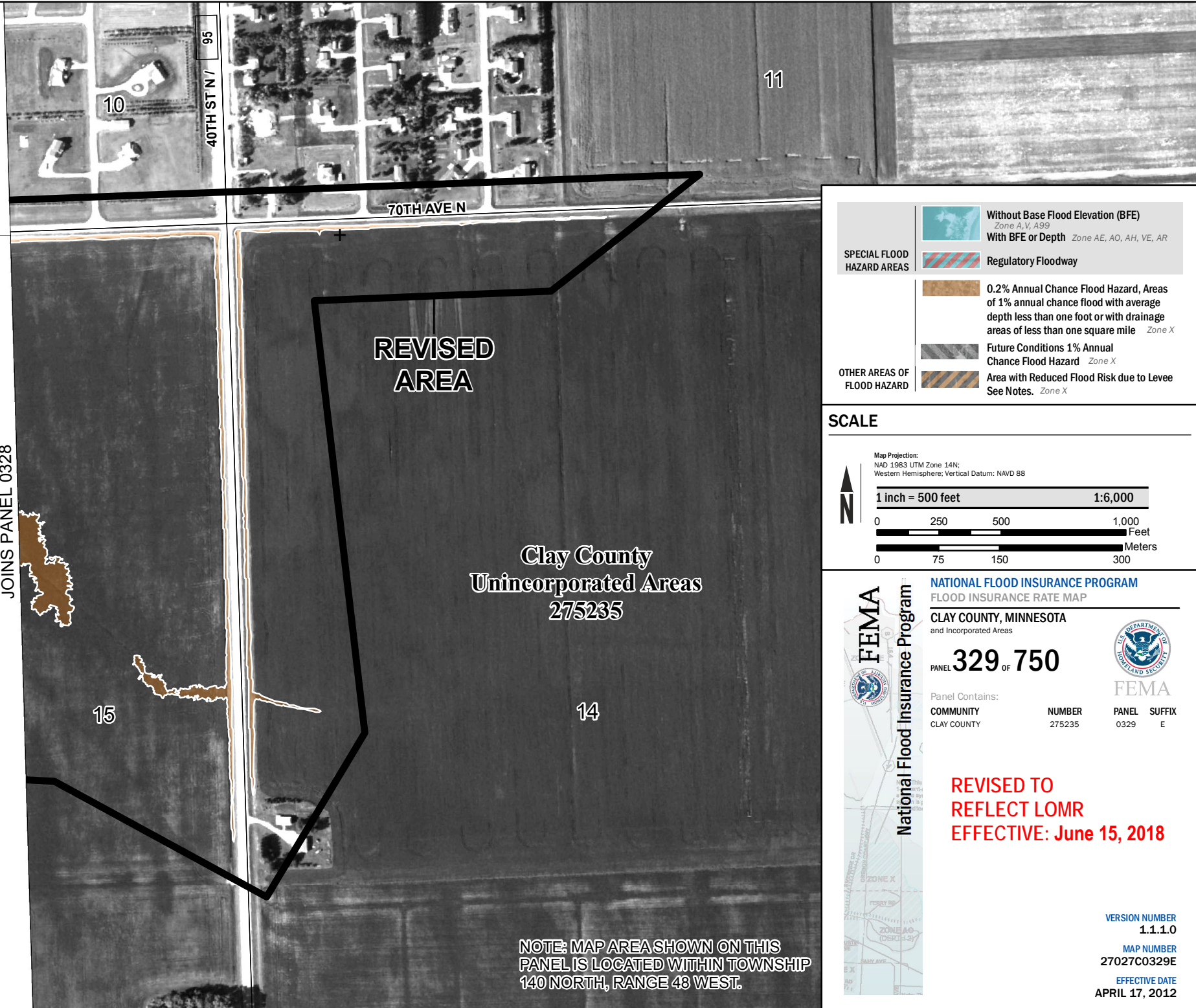
CLAY COUNTY, MINNESOTA
and Incorporated Areas

PANEL **328** OF **750**

Panel Contains:
COMMUNITY: CLAY COUNTY NUMBER: 275235 PANEL: 0328 SUFFIX: E

REVISED TO REFLECT LOMR EFFECTIVE: June 15, 2018

VERSION NUMBER: 1.1.1.0
MAP NUMBER: 27027C0328E
EFFECTIVE DATE: APRIL 17, 2012



52°02'00.00m N

JOINS PANEL 0328

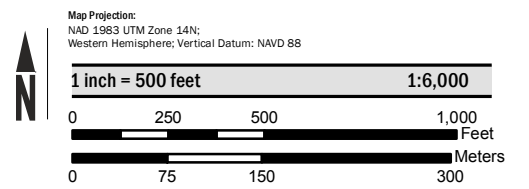
**REVISED
AREA**

**Clay County
Unincorporated Areas
275235**

**NOTE: MAP AREA SHOWN ON THIS
PANEL IS LOCATED WITHIN TOWNSHIP
140 NORTH, RANGE 48 WEST.**

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
OTHER AREAS OF FLOOD HAZARD		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

SCALE



FEMA
National Flood Insurance Program

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

CLAY COUNTY, MINNESOTA
and Incorporated Areas

PANEL 329 OF 750

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
CLAY COUNTY	275235	0329	E

**REVISÉD TO
REFLECT LOMR
EFFECTIVE: June 15, 2018**

VERSION NUMBER
1.1.1.0

MAP NUMBER
27027C0329E

EFFECTIVE DATE
APRIL 17, 2012

674⁰⁰⁰m E

673⁰⁰⁰m E

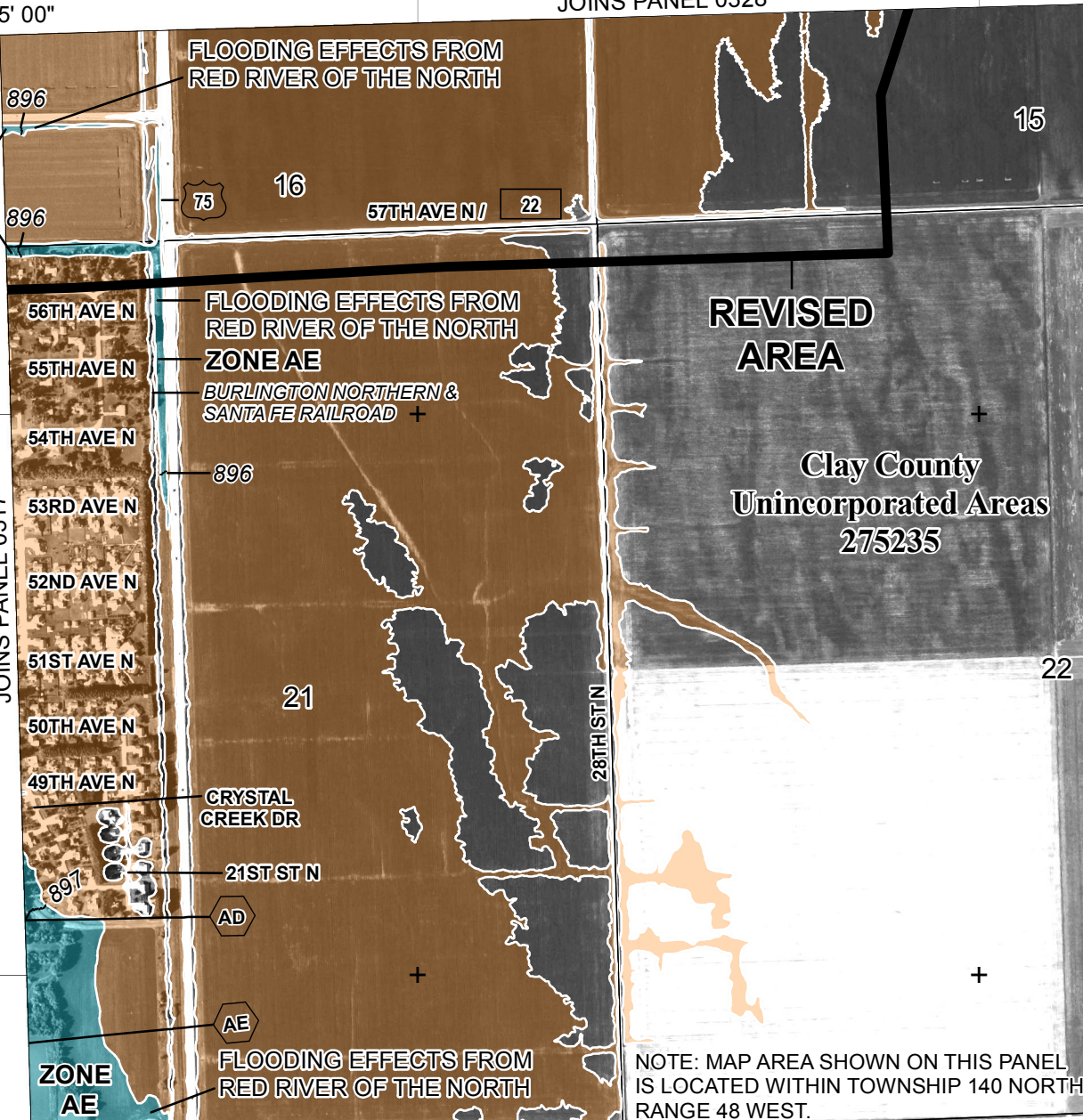
672⁰⁰⁰m E

JOINS PANEL 0328

96° 45' 00"

46° 56' 15"

ZONE AE

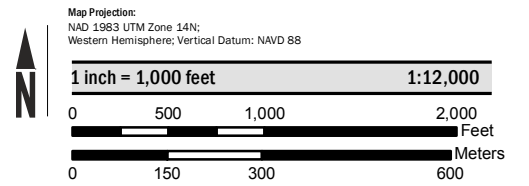


SPECIAL FLOOD HAZARD AREAS

- 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

SCALE



FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

CLAY COUNTY, MINNESOTA
and Incorporated Areas

PANEL **340.750** OF 750

Panel Contains:			
COMMUNITY	NUMBER	PANEL	SUFFIX
CLAY COUNTY	275235	0340	E
MOORHEAD, CITY OF	275244	0340	E

REVISED TO REFLECT LOMR EFFECTIVE: June 15, 2018

VERSION NUMBER 1.1.1.0
MAP NUMBER 27027C0340E
EFFECTIVE DATE APRIL 17, 2012

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 140 NORTH, RANGE 48 WEST.

JOINS PANEL 0317

5199⁰⁰⁰m N

5200⁰⁰⁰m N

ZONE AE

FLOODING EFFECTS FROM RED RIVER OF THE NORTH

CRYSTAL CREEK DR

21ST ST N

AD

AE

REVISED AREA

Clay County Unincorporated Areas 275235

FLOODING EFFECTS FROM RED RIVER OF THE NORTH

FLOODING EFFECTS FROM RED RIVER OF THE NORTH

ZONE AE

BURLINGTON NORTHERN & SANTA FE RAILROAD

21

15

22

16

57TH AVE N / 22

896

896

56TH AVE N

55TH AVE N

54TH AVE N

53RD AVE N

52ND AVE N

51ST AVE N

50TH AVE N

49TH AVE N

891

28TH ST N