

Follows Conditional Case No.: 16-05-0793R



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	Dane County Wisconsin (Unincorporated Areas)	CULVERT	FLOODWAY HYDRAULIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 550077		
IDENTIFIER	Hubble Road Box Culvert-Verona, WI	APPROXIMATE LATITUDE & LONGITUDE: 43.004, -89.563 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 55025C0389G DATE: January 2, 2009 TYPE: FIRM NO.: 55025C0393G DATE: January 2, 2009		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: June 16, 2016 PROFILE(S): 30P FLOODWAY DATA TABLE: 24	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map;

FLOODING SOURCE(S) & REVISED REACH(ES)

Dry Tributary to Badger Mill Creek - From approximately 600 feet downstream of Hubble Road to approximately 3,000 feet upstream of Hubble Road

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Dry Tributary to Badger Mill Creek	Zone AE	Zone AE	YES	YES
	Zone X (unshaded)	Zone X (unshaded)	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, 847 South Pickett Street, Alexandria, VA 22304-4605. 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

16-05-6316P

102-I-A-C



Federal Emergency Management Agency
Washington, D.C. 20472

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

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

Dry Tributary to Badger Mill Creek - From approximately 600 feet downstream of Hubble Road to approximately 3,000 feet upstream of Hubble Road

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Dry Tributary to Badger Mill Creek	Zone AE	Zone X (unshaded)	NONE	YES
	Zone X (unshaded)	Zone X (unshaded)	YES	YES
	Zone X (shaded)	Zone X (shaded)	YES	YES

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, 847 South Pickett Street, Alexandria, VA 22304-4605. 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)**

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 550092 **Name:** City of Verona, Wisconsin

AFFECTED MAP PANELS

TYPE: FIRM NO.: 55025C0389G DATE: January 2, 2009
TYPE: FIRM NO.: 55025C0393G DATE: January 2, 2009

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY: June 16, 2016
PROFILE(S): 30P
FLOODWAY DATA TABLE: 24

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, 847 South Pickett Street, Alexandria, VA 22304-4605. 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 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 Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

A handwritten signature in black ink, appearing to read "Rick F. Sacbibit".

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)

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.

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. Christine Stack
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 LOMR captures partial revision to the corporate limits for Dane County and the City of Verona to match the corporate limits shown on the Digital FIRM (DFIRM)/National Flood Hazard Layer (NFHL), as a result of annexation. However, please note that these changes will not be shown on the paper copies of the adjacent effective FIRM panels until a physical revision in the future occurs.

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, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Engineering Services Branch
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency
Washington, D.C. 20472

**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: *Wisconsin State Journal*

Dates: December 8, 2016 and December 15, 2016

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, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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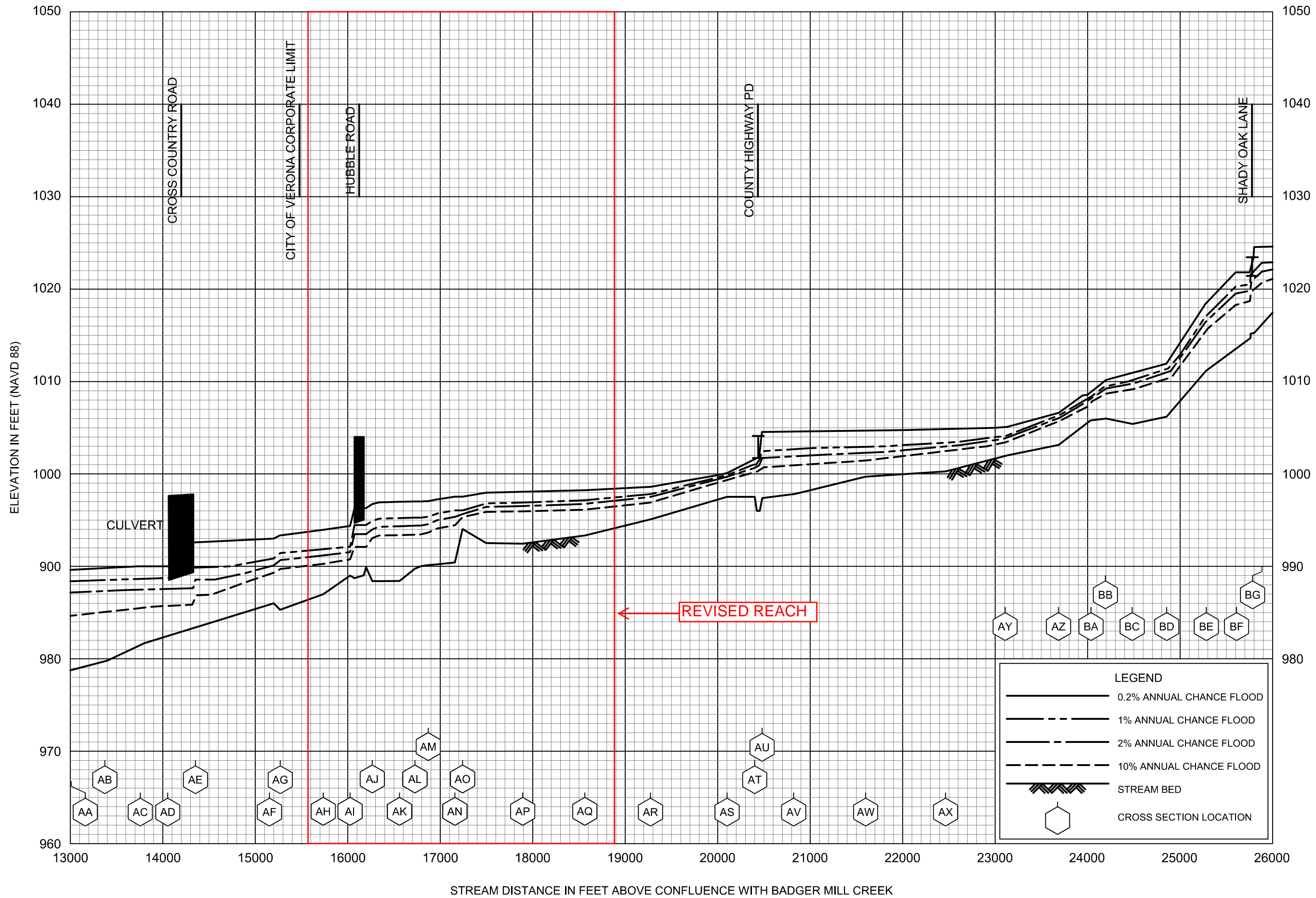
Patrick "Rick" F. Sacbibit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET / SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	13,015	194	922	1.5	988.4	988.4	988.4	0.0
AB	13,374	144	641	2.2	988.5	988.5	988.5	0.0
AC	13,760	244	1,216	1.3	988.7	988.7	988.7	0.0
AD	14,056	65	513	3.4	988.7	988.7	988.7	0.0
AE	14,353	85	574	2.7	989.9	989.9	989.9	0.0
AF	15,156	76	248	5.5	990.8	990.8	990.8	0.0
AG	15,272	128	689	2.2	991.4	991.4	991.4	0.0
AH	15,734	138	493	2.8	991.9	991.9	991.9	0.0
AI	16,025	80	205	6.6	992.1	992.1	992.1	0.0
AJ	16,264	113	359	3.6	994.9	994.9	994.9	0.0
AK	16,560	216	929	1.4	995.2	995.2	995.2	0.0
AL	16,726	190	705	1.8	995.3	995.3	995.3	0.0
AM	16,870	110	327	3.9	995.4	995.4	995.4	0.0
AN	17,158	138	533	2.4	996.1	996.1	996.1	0.0
AO	17,496	143	195	6.6	996.8	996.8	996.8	0.0
AP	17,891	317	936	1.4	996.9	996.9	996.9	0.0
AQ	18,562	389	805	1.6	997.2	997.2	997.2	0.0
AR	19,274	533	735	2.1	997.9	997.9	997.9	0.0
AS	20,105	241	461	3.4	999.8	999.8	999.8	0.0
AT	20,404	65	514	6.6	1,001.0	1,001.0	1,001.0	0.0
AU	20,482	109	1,501	2.6	1,002.5	1,002.5	1,002.5	0.0
AV	20,823	451	1,186	1.0	1,002.7	1,002.7	1,002.7	0.0
AW	21,601	550	937	1.3	1,002.9	1,002.9	1,002.9	0.0
AX	22,465	421	703	1.6	1,003.3	1,003.3	1,003.3	0.0
AY	23,110	287	418	2.7	1,004.1	1,004.1	1,004.1	0.0
AZ	23,687	192	235	4.8	1,006.3	1,006.3	1,006.3	0.0

¹Distances are measured in feet above confluence with Badger Mill Creek

REVISED DATA

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY DANE COUNTY, WISCONSIN AND INCORPORATED AREAS	FLOODWAY DATA FLOODING SOURCE: DRY TRIBUTARY TO BADGER MILL CREEK
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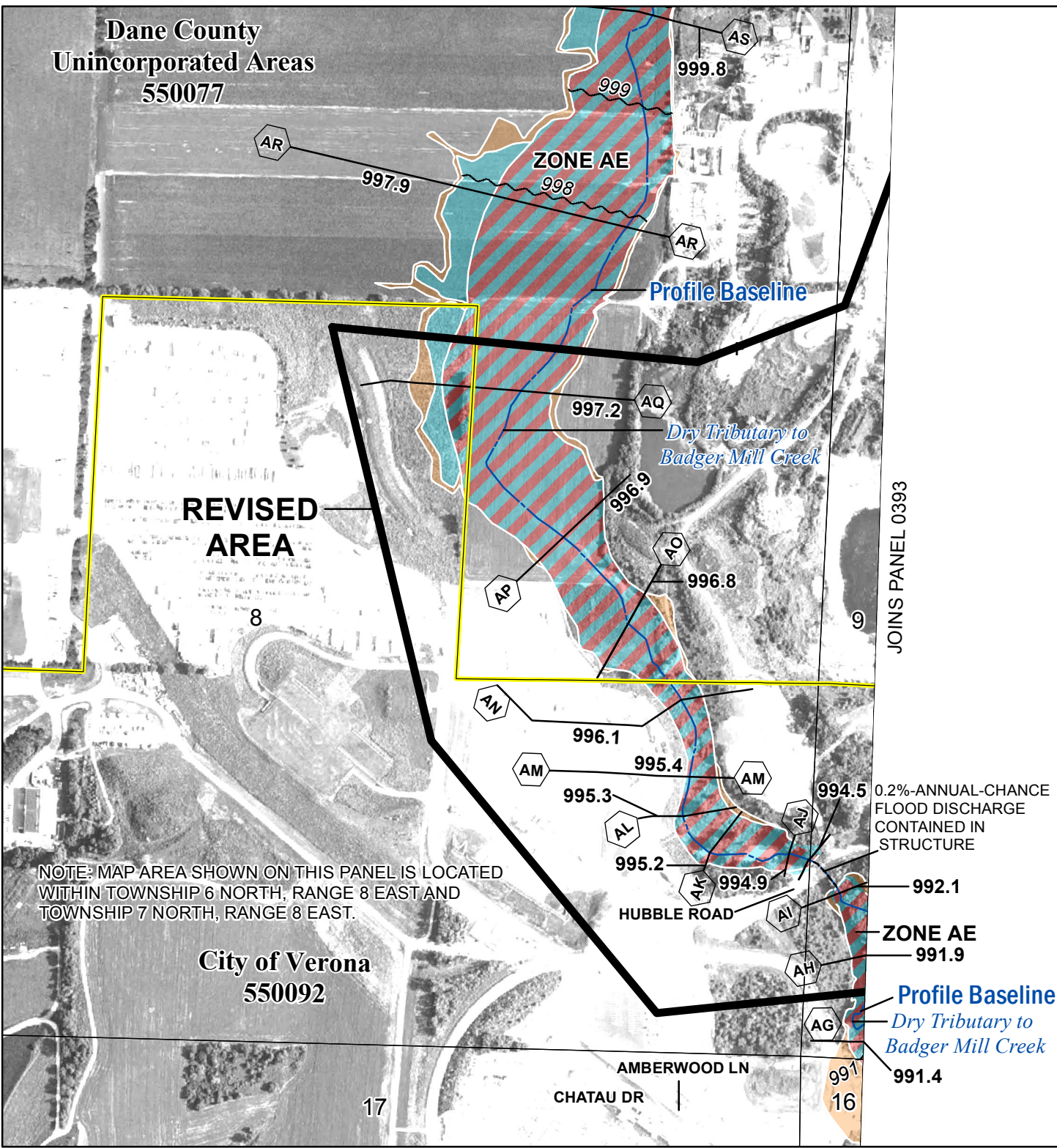
FLOOD PROFILES

DRY TRIBUTARY TO BADGER MILL CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

DANE COUNTY, WI
AND INCORPORATED AREAS

**Dane County
Unincorporated Areas
550077**



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 6 NORTH, RANGE 8 EAST AND TOWNSHIP 7 NORTH, RANGE 8 EAST.

JOINS PANEL 0393

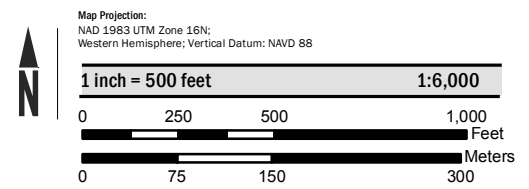
SPECIAL FLOOD HAZARD AREAS

- 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



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

DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

PANEL **389** OF **850**

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
DANE COUNTY	550077	0389	G
MADISON, CITY OF	550083	0389	G
VERONA, CITY OF	550092	0389	G

**REVISED TO REFLECT LOMR EFFECTIVE:
April 14, 2017**

VERSION NUMBER
1.1.1.0
MAP NUMBER
55025C0389G
EFFECTIVE DATE
JANUARY 2, 2009

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 6 NORTH, RANGE 8 EAST

Dane County Unincorporated Areas 550077

47° 65' 00" N

JOINS PANEL 0389

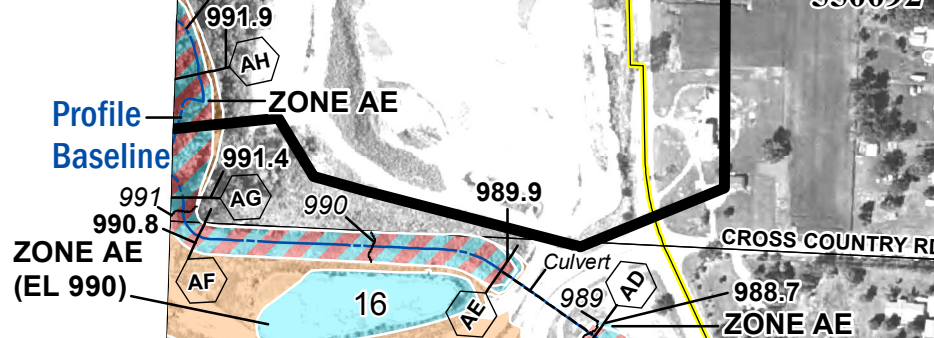
N NINE MOUND RD

**REVISED
AREA**

*Dry Tributary to
Badger Mill Creek*

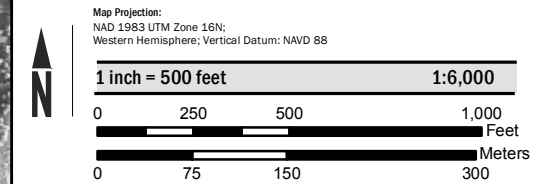
**City of Verona
550092**

HULA DR



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

SCALE



National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP

DANE COUNTY, WISCONSIN
AND INCORPORATED AREAS

PANEL **393** OF **850**

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
DANE COUNTY	550077	0393	G
MADISON, CITY OF	550083	0393	G
VERONA, CITY OF	550092	0393	G



FEMA

**REVISED TO REFLECT
LOMR EFFECTIVE:
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VERSION NUMBER
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