



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 Grove City Franklin County Ohio	NO PROJECT	HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS MORE DETAILED DATA
	COMMUNITY NO.: 390173		
IDENTIFIER	City Of Grove City - West Water Run	APPROXIMATE LATITUDE & LONGITUDE: 39.883, -83.087 SOURCE: USGS QUADRANGLE DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 39049C0313K DATE: June 17, 2008 TYPE: FIRM* NO.: 39049C0314K DATE: June 17, 2008		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: June 16, 2011 PROFILE(S): 108P, 109P and 110P FLOODWAY DATA TABLE: 9 SUMMARY OF DISCHARGE TABLE: 7	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map; ** FBFM - Flood Boundary and Floodway Map; *** FHBM - Flood Hazard Boundary Map

FLOODING SOURCE(S) & REVISED REACH(ES)

See Page 2 for Additional Flooding Sources

West Water Run/Grove City Creek 2 - From just upstream of Magnolia Street to approximately 1,300 feet downstream of Hoover Road

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
West Water Run/Grove City Creek 2	Zone AE	Zone AE	YES	YES
	BFEs	BFEs	YES	YES
	Zone X (shaded)	Zone X (shaded)	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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the Engineering Library, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

David N. Bascom, CFM, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration



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Washington, D.C. 20472

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

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

West Water Run/Grove City Creek 2 - From approximately 150 feet upstream of Demorest Road to approximately 1,300 feet downstream of Hoover Road

Brown Run - From approximately 1,350 feet upstream of Harrisburg Pike to approximately 750 feet upstream of Harrisburg Pike

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
West Water Run/Grove City Creek 2	Zone A	Zone AE	YES	NONE
	Zone A	Zone X (unshaded)	YES	NONE
Brown Run	Zone A	Zone A	NONE	YES
	Zone A	Zone AE	YES	NONE

* BFEs - Base Flood Elevations

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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the Engineering Library, 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.

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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the Engineering Library, 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 "David N. Bascom".

David N. Bascom, CFM, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration



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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. Christine Stack
Director, Mitigation Division
Federal Emergency Management Agency, Region V
536 South Clark Street, Sixth Floor
Chicago, IL 60605
IN,MI,OH:(312)408-5364 WI:(312) 408-5500 MN,IL:(312)408-5245

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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the Engineering Library, 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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David N. Bascom, CFM, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration



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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/Scripts/bfe_main.asp.

LOCAL NEWSPAPER Name: Grove City Record
 Dates: September 27, 2012 and October 4, 2012

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 information 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 Assistance Center toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the Engineering Library, 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 Management Branch
Federal Insurance and Mitigation Administration



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Washington, D.C. 20472

SEP-13 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Richard L. Stage
Mayor, City of Grove City
4035 Broadway
Grove City, OH 43123

IN REPLY REFER TO:

Case No.: 12-05-1017P
Community Name: City Of Grove City, OH
Community No.: 390173
Effective Date of
This Revision: February 4, 2013

Dear Mayor Stage:

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 Assistance Center 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/nfip>.

Sincerely,

David N. Bascom, CFM, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration

For: Luis Rodriguez, P.E., Chief
Engineering Management Branch
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. Michael Boso,
Chief Building, Zoning, and Floodplain Official
City of Grove City
4035 Broadway
Grove City, OH 43123

Mr. Doug Turney, P.E., CFM, LEED AP
EMH&T
5500 New Albany Road
Columbus, OH 43054

Mr. Christopher Thoms, CFM
Ohio Department of Natural Resources
2045 Morse Rd., Bldg. B-2
Columbus OH 43229-6693

**REVISED TO REFLECT
LOMR EFFECTIVE:
FEBRUARY 4, 2013**

Table 7. Summary of Discharges

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs)			
		10-percent- annual- chance	2-percent- annual- chance	1-percent- annual- chance	0.2-percent- annual- chance
French Run					
At confluence with Blacklick Creek	5.46	1,765	2,333	2,700	3,461
Just US of French Run (Lateral G-A)	2.87	1,009	1,343	1,500	2,037
French Run (Lateral G-A)					
At confluence with French Run	2.59	795	1,037	1,187	1,524
At Cross Section G	2.10	678	895	1,027	1,325
Georges Creek					
At confluence with Little Walnut Creek	14.4	1,368	1,432	1,448	1,509
At C&O Railroad	14.4	3,258	4,718	5,126	7,408
Approximately 2.26 miles upstream of confluence with Little Walnut Creek	4.4	901	1,272	1,374	1,836
Georges Creek Overland Flow					
Overland Flow Path	*	5	365	485	865
Georges Creek Split Flow					
Just DS of divergence from Georges Creek	*	150	380	400	695
Grant Run					
Just US of confluence with the Scioto River	*	*	*	*	*
Just US of confluence of Patzer Ditch	*	*	*	*	*
At Borror Road	3.46	655	1,269	1,623	2,729
Grove City Creek 1					
At confluence with the Scioto River	7.94	1,400	2,700	3,500	5,900
Grove City Creek 2/West Water Run					
Approximately 1.33 miles above confluence with Grove City Creek 1	2.91	516	818	950	1,130
Approximately 100 feet US of Demorest Road	0.71	108	184	244	467
Haines Ditch					
At confluence with Blacklick Creek	2.2	*	*	1,182	*
Hamilton Ditch					
At confluence with Hellbranch Run	5.86	1,180	2,160	2,700	4,400
At Feder Road Bridge	4.67	940	1,721	2,151	3,506
At Walker Road Bridge	3.32	668	1,223	1,530	2,492
At Roberts Road Bridge	2.55	513	940	1,175	1,914
Hayden Run					
At confluence with the Scioto River	8.30	1,580	2,490	3,750	6,300
Approximately 1.83 miles US of confluence with the Scioto River	8.00	1,225	2,280	2,910	4,890
At CONRAIL	4.79	599	907	1,042	1,488
At Hayden Road Run, approximately 0.4 miles US of Avery Road	4.00	530	805	926	1,326
Hellbranch Run					
At Confluence with Big Darby Creek	36.29	4,150	7,500	9,400	15,00
At Beatty Road Bridge	32.55	3,722	6,727	8,431	13,454

*DATA NOT AVAILABLE

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANGE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	WIDTH REDUCED FROM PRIOR STUDY	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE (FEET)
Utzinger Ditch									
A	0 ¹	558		1,411	0.7	881.5	880.3 ⁴	880.8	0.5
B	1,400 ¹	125		425	2.2	882.3	882.3	882.7	0.4
C	2,300 ¹	122		428	2.2	885.2	885.2	885.3	0.1
D	2,600 ¹	71		264	3.6	885.4	885.4	885.5	0.1
E	2,900 ¹	59		189	5.0	886.1	886.1	886.1	0.0
F	3,500 ¹	184		303	3.1	888.6	888.6	888.6	0.0
G	4,400 ¹	324		481	1.3	890.6	890.6	891.1	0.5
H	4,840 ¹	35		175	3.6	891.1	891.1	891.5	0.4
West Water Run									
R	2,420 ²	26	74 ³	152	4.8	831.3	831.3	831.7	0.4
S	2,555 ²	30	179 ³	127	5.8	832.4	832.4	832.8	0.4
T	2,580 ²	39	364 ³	205	3.6	833.7	833.7	834.1	0.4
U	2,943 ²	140		469	0.8	840.6	840.6	840.8	0.2
V	3,012 ²	35	301 ³	138	2.6	842.4	842.4	842.5	0.1
W	3,037 ²	108	52 ³	317	1.1	843.2	843.2	843.4	0.2
X	3,105 ²	31		101	3.6	843.2	843.2	843.4	0.2
Y	3,168 ²	75	372 ³	258	1.4	847.1	847.1	847.4	0.3
Z	3,223 ²	75	181 ³	228	1.6	848.1	848.1	848.5	0.4
AA	3,297 ²	150	257 ³	243	1.5	850.2	850.2	850.3	0.1
AB	3,552 ²	44	233 ³	104	3.1	855.1	855.1	855.5	0.4
AC	3,580 ²	130	468 ³	334	1.0	857.4	857.4	857.7	0.3
AD	3,662 ²	86	400 ³	222	1.5	857.8	857.8	858.0	0.2
AE	3,878 ²	40	329 ³	102	2.4	861.8	861.8	861.9	0.1
AF	3,925 ²	31		107	2.3	864.8	864.8	864.9	0.1

¹ Feet above confluence with Blacklick Creek ²Miles above confluence with Grove Creek 1 ³See explanation in Section 4.2

⁴Elevation without considering backwater effect from Blacklick Creek

REVISED TO REFLECT LOMR EFFECTIVE: FEBRUARY 4, 2013

FEDERAL EMERGENCY MANAGEMENT AGENCY
FRANKLIN COUNTY, OH
AND INCORPORATED AREAS

FLOODWAY DATA

TABLE 9

Utzinger Ditch, West Water Run

REVISED AREA

FLOODING SOURCE		FLOODWAY				1-PERCENT-ANNUAL-CHANGE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	WIDTH REDUCED FROM PRIOR STUDY	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE (FEET)
Grove City Creek 1 ¹									
A	0.060	661		2,606	1.3	698.1	691.4 ²	691.9	0.5
B	0.500	365		1,327	2.6	699.7	699.7 ²	699.5	0.5
C	0.815	404		1,001	3.5	708.5	708.5	709.0	0.5
D	1.124	333		659	4.6	718.9	718.9	718.9	0.0
E	1.565	155		724	4.2	734.7	734.7	734.7	0.0
F	1.860	156		606	5.0	739.6	739.6	740.0	0.4
G	2.071	90		406	7.5	745.2	745.2	745.3	0.1
Grove City Creek 2 ²									
A	0.040	90		553	3.6	749.6	749.6	750.1	0.5
B	0.171	110		1,644	1.2	766.6	766.6	766.6	0.0
C	0.240	148		1,224	1.6	766.5	766.5	766.5	0.0
D	0.395	70		273	7.3	766.5	766.5	766.5	0.0
E	0.551	69		341	5.8	771.7	771.7	771.8	0.1
F	0.651	54		280	7.1	774.2	774.2	774.2	0.0
G	0.839	65		919	2.2	787.0	787.0	787.3	0.3
H	1.071	90		250	7.9	791.0	791.0	791.1	0.1
I	1.120	52		217	9.1	794.8	794.8	794.8	0.0
J	1.332	25		165	5.77	800.3	800.3	800.3	0.0
K	1.460	27		96	9.9	801.7	801.7	801.8	0.1
L	1.723	59		308	3.1	816.5	816.5	816.5	0.0
M	1.956	24	130 ³	144	6.6	822.3	822.3	822.4	0.1
N	2.015	70	176 ³	248	3.8	823.7	823.7	823.9	0.2
O	2.092	30	551 ³	137	6.9	825.2	825.2	825.3	0.1
P	2.236	176		157	4.7	828.1	828.1	828.3	0.2
Q	2.299	47		259	2.8	830.2	830.2	830.4	0.2

¹ Feet above confluence with Scioto River ²Miles above confluence with Grove Creek 1 ³See explanation in Section 4.2

REVISED AREA

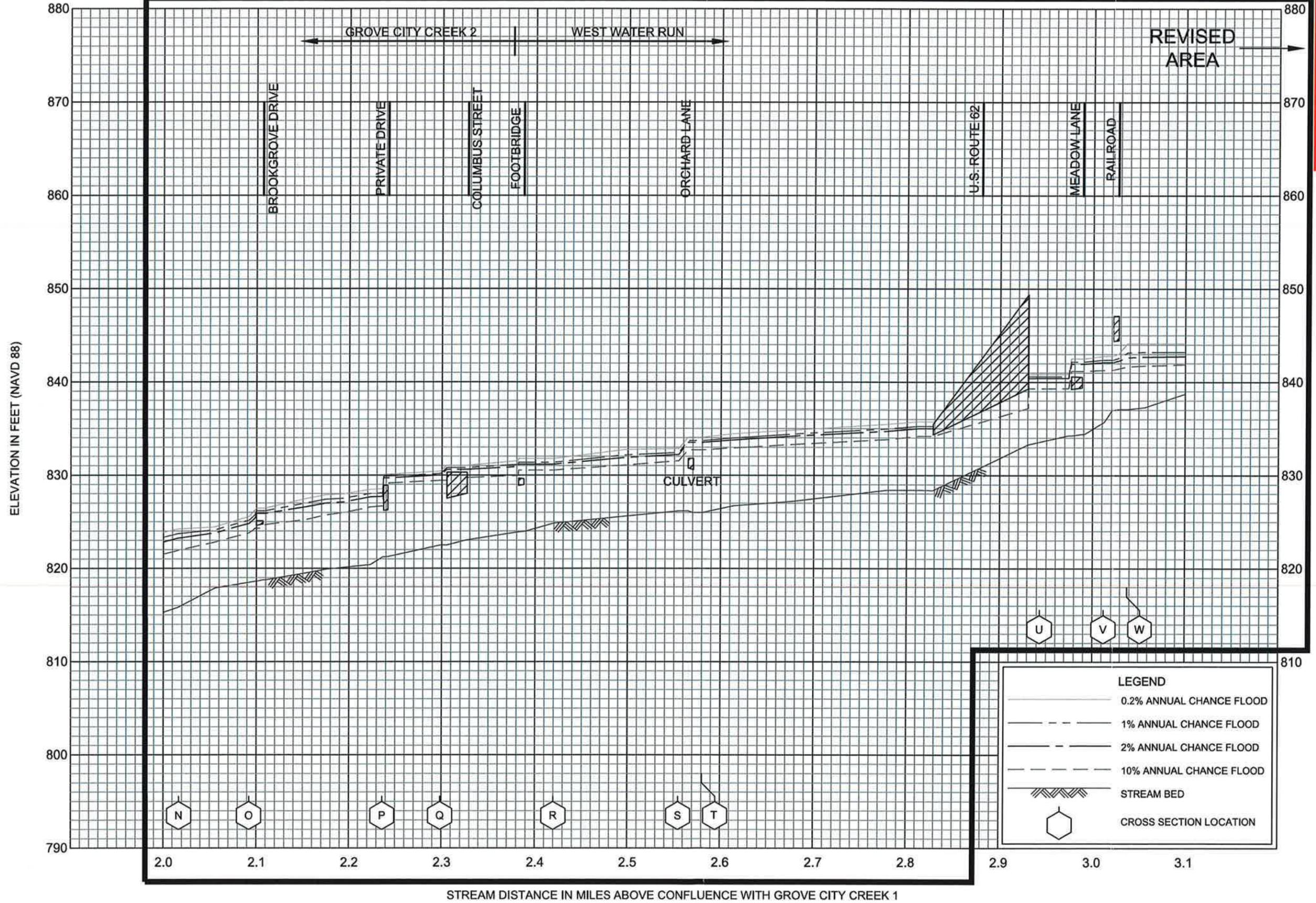
**REVISED TO REFLECT
LOMR EFFECTIVE:
FEBRUARY 4, 2013**

**FEDERAL EMERGENCY MANAGEMENT AGENCY
FRANKLIN COUNTY, OH
AND INCORPORATED AREAS**

FLOODWAY DATA

TABLE 9

Grove City Creek 1, Grove City Creek 2



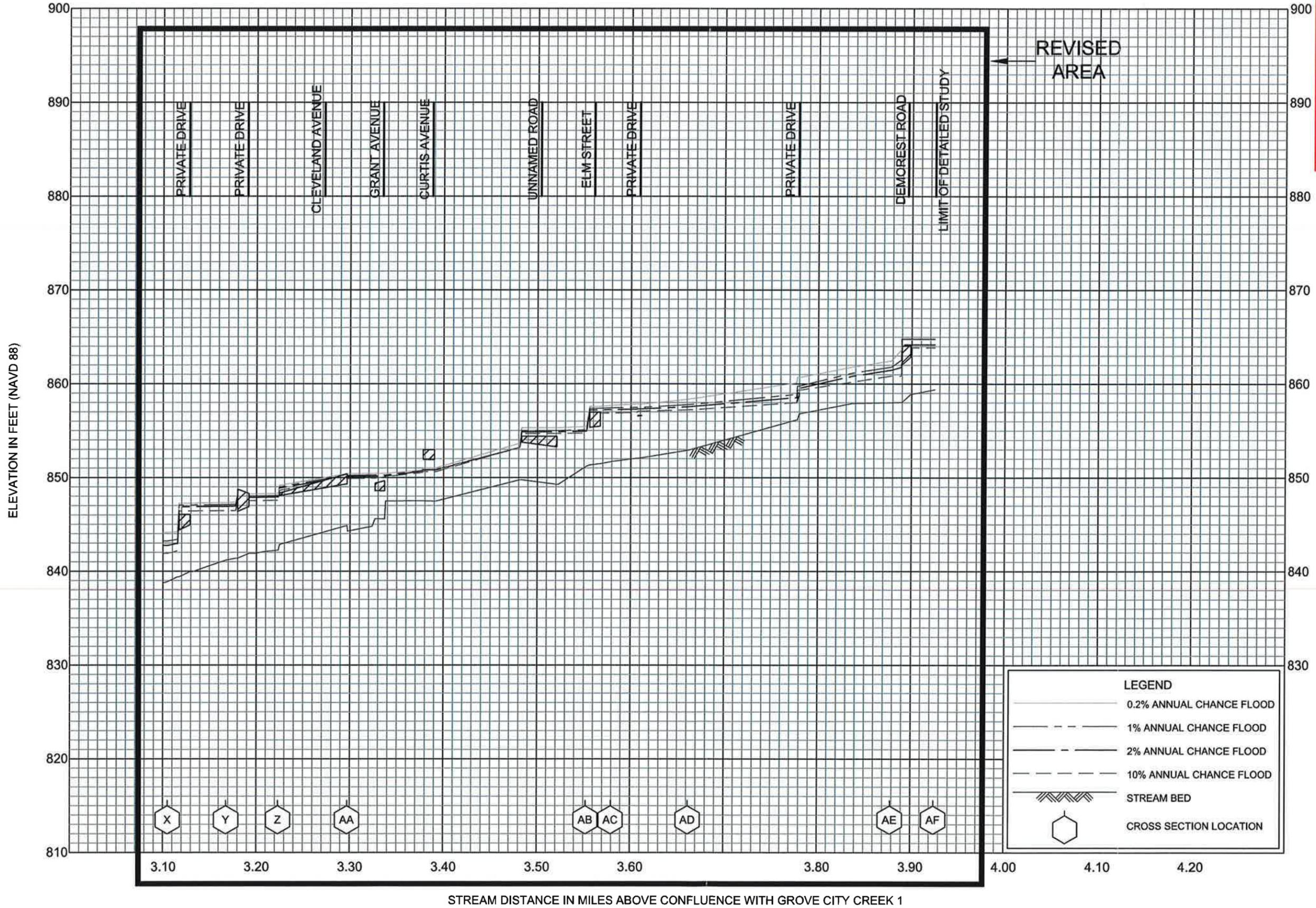
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FEBRUARY 4, 2013

FLOOD PROFILES

GROVE CITY CREEK 2 - WEST WATER RUN

FEDERAL EMERGENCY MANAGEMENT AGENCY
FRANKLIN COUNTY, OH
AND INCORPORATED AREAS

LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD
	10% ANNUAL CHANCE FLOOD
	STREAM BED
	CROSS SECTION LOCATION



REVISED TO REFLECT
LOMR EFFECTIVE:
FEBRUARY 4, 2013

FLOOD PROFILES
GROVE CITY CREEK 2 - WEST WATER RUN

FEDERAL EMERGENCY MANAGEMENT AGENCY
FRANKLIN COUNTY, OH
AND INCORPORATED AREAS

STREAM DISTANCE IN MILES ABOVE CONFLUENCE WITH GROVE CITY CREEK 1



Legend

- 1% annual chance (100-Year) Floodplain
- 1% annual chance (100-Year) Floodway
- 0.2% annual chance (500-Year) Floodplain

MAP SCALE 1" = 500'

250 0 500 FEET METERS

PANEL 0313K

FIRM
 FLOOD INSURANCE RATE MAP
 FRANKLIN COUNTY,
 OHIO
 AND INCORPORATED AREAS

PANEL 313 OF 465
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COLUMBUS, CITY OF	390170	0313	K
FRANKLIN COUNTY	390167	0313	K
GROVE CITY, CITY OF	390173	0313	K
URBANCREST, VILLAGE OF	390893	0313	K

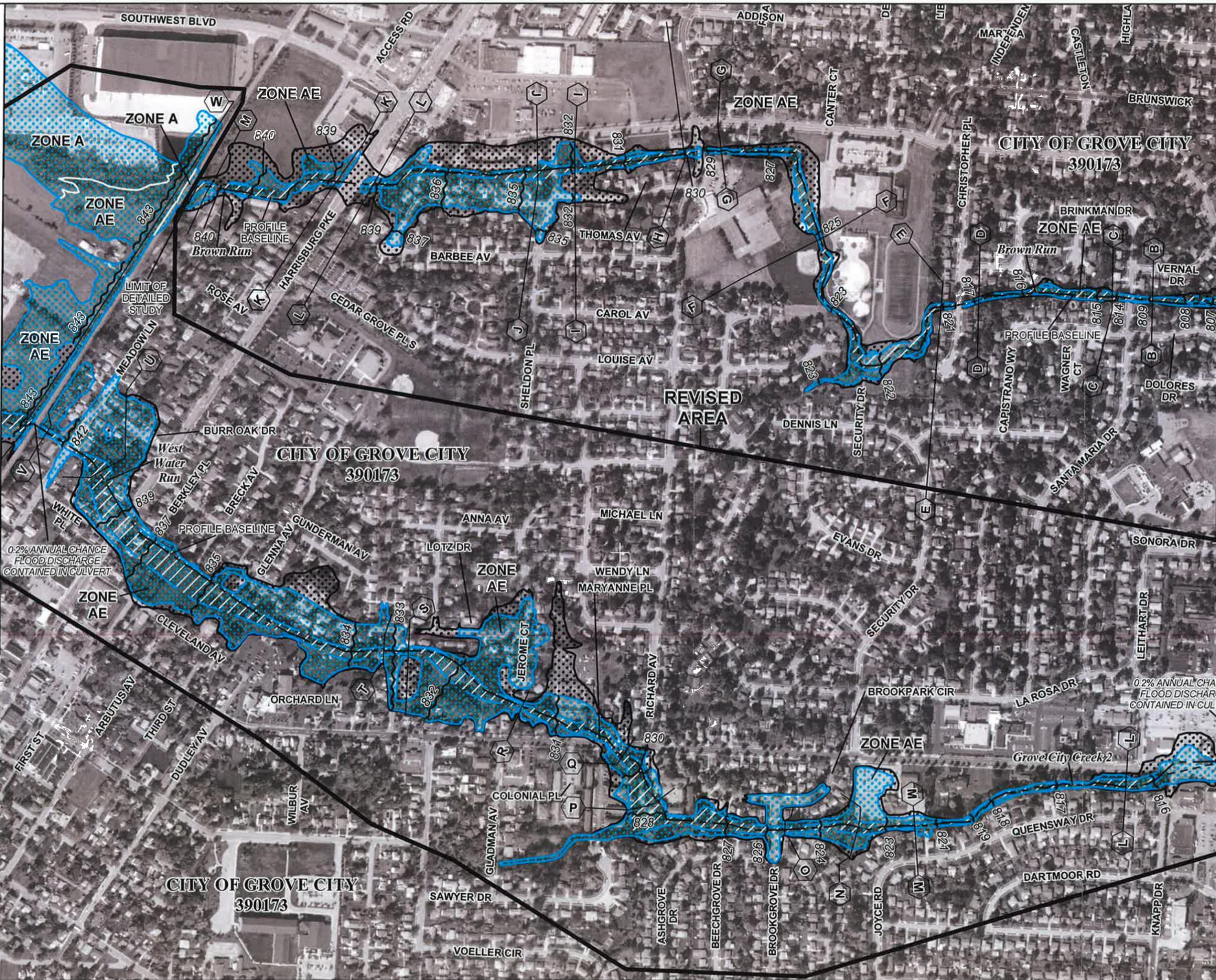
REVISED TO REFLECT LOMR EFFECTIVE: FEBRUARY 4, 2013

Notice to User: The Map Number shown below should be used when placing map orders, the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
39049C0313K

MAP REVISED
JUNE 17, 2008

Federal Emergency Management Agency



Legend

- 1% annual chance (100-Year) Floodplain
- 1% annual chance (100-Year) Floodway
- 0.2% annual chance (500-Year) Floodplain

MAP SCALE 1" = 500'

NFP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0314K

FIRM
FLOOD INSURANCE RATE MAP
FRANKLIN COUNTY, OHIO
AND INCORPORATED AREAS

PANEL 314 OF 465
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COLUMBUS, CITY OF	390170	0314	K
FRANKLIN COUNTY	390181	0314	K
GROVE CITY, CITY OF	390173	0314	K
URBANKREST, VILLAGE OF	390893	0314	K

REVISED TO REFLECT LOMR EFFECTIVE: FEBRUARY 4, 2013

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
39049C0314K
MAP REVISED
JUNE 17, 2008

Federal Emergency Management Agency

JOINS PANEL 0313

685000 FT

Grave City Creek 2

0.2% ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN CULVERT

Grave City Creek 2

PROFILE BASELINE

FRANKLIN COUNTY UNINCORPORATED AREAS
390167
OLD STRINGTOWN