Dogo 1 of 4	Issue Date: February 4, 2024	Effective Date	e: June 25, 2021	Casa No : 20	02 11090	LOMR-APP		
Page 1 of 4 Issue Date: February 4, 2021				Case No.: 20-03-1198P LOMR-AF				
	Federa		gency Manag nington, D.C. 20472					
		_	IAP REVISION ON DOCUMENT					
	COMMUNITY AND REVISION INFORMATION	N	PROJECT DESCRIP	TION	BASIS OF REC	UEST		
COMMUNITY	Howard County Maryland (Unincorporated Areas)		CULVERT	HYD	HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS UPDATED TOPOGRAPHIC DATA			
	COMMUNITY NO.: 240044							
IDENTIFIER	MD 32 Phase I Culvert Replacements on Str CB-4	reams CB-1 and	APPROXIMATE LATITUDE AND LONGITUDE: 39.212, -76.951 SOURCE: Google Earth Pro DATUM: NAD 83					
	ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES					
TYPE: FIRM*	NO.: 24027C0130D DATE: Nov	vember 6, 2013	DATE OF EFFECTIVE FLOC PROFILES: 146P, 147F SUMMARY OF DISCHAR	P, AND 151P	UDY: November 6	, 2013		
Enclosures reflect * FIRM - Flood Ir	ct changes to flooding sources affected by this re nsurance Rate Map	evision.						
	FLOC	DING SOURCES	AND REVISED REACHES					
Stream CB-1 - fr	om approximately 120 feet downstream of the c	onfluence of Strea	m CB-4 to approximately 980 fe	et upstream of Stat	e Route 32			
	om the confluence with Stream CB-1 to approxin State Route 32 to approximately 1,120 feet upstr			tream CB-1 and fro	m approximately 58	30 feet		
		SUMMARY (	OF REVISIONS					
Flooding Sourc Stream CB-1	e	Effective Floo BFEs*	oding Revised BFEs	Flooding	Increases YES	Decreases YES		
Stream CB-4		Zone AE BFEs Zone AE	Zone AE BFEs Zone AE		YES YES YES	YES YES YES		
* BFEs - Base Fl	ood Elevations							
		DETER	MINATION					
regarding a re- a revision to th warranted.	t provides the determination from the Depa quest for a Letter of Map Revision (LOMR) ne flood hazards depicted in the Flood Insu his document revises the effective NFIP m by this LOMR for floodplain management p	) for the area des urance Study (FI ap, as indicated	scribed above. Using the ir S) report and/or National Flo in the attached documentat	nformation submit ood Insurance Pro ion. Please use	tted, we have det ogram (NFIP) ma the enclosed ani	ermined that		
questions about t Clearinghouse, 3	on is based on the flood data presently available. T this document, please contact the FEMA Mapping a 601 Eisenhower Avenue, Suite 500, Alexandria, VA a.gov/flood-insurance.	and Insurance eXcha	ange toll free at 1-877-336-2627 (*	1-877-FEMA MAP) o	r by letter addressed			
	Er	ngineering Service	bibit, P.E., Branch Chief s Branch nd Mitigation Administration	20-03-11	98P	102-I-A-C		



Federal Emergency Management Agency

Washington, D.C. 20472

# 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.

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

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

20-03-1198P



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. April Cummings Director, Mitigation Division Federal Emergency Management Agency, Region III One Independence Mall, Sixth Floor 615 Chestnut Street Philadelphia, PA 19106-4404 (215) 931-5635

#### 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 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 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: Howard County Times

Dates: February 18, 2021 and February 25, 2021

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 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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20-03-1198P

### TABLE 5 – SUMMARY OF DISCHARGES (CONTINUED)

		PEAK DISCHARGES (cubic feet per second)									
	FLOODING SOURCE AND LOCATION	DRAINAGE AREA <u>(sq. miles)</u>	10- Percent- Annual- <u>Chance</u>	2- Percent- Annual- <u>Chance</u>	1- Percent- Annual- <u>Chance</u>	Future 1- Percent- Annual- <u>Chance</u>	0.2- Percent- Annual- <u>Chance</u>				
	RIGHT FORK NORTH TRIBUTARY WEST BRANCH DORSEY RUN										
	(entire reach)	0.12	186	355	547	499	1040				
	ROCKBURN BR	ANCH									
	Mouth at Patapsco River (River Road)	3.69	1,248	2,630	3,580	3,924	6 <b>,</b> 697				
	At Landing Road	1.57	869	1,800	2,370	2,430	4,280				
	ROCKBURN BRANCH (CONTINUED)										
	At Kerger Road	0.23	307	607	781	748	1,330				
	SANNER ROAD TRIBUTARY										
	Approximately 200 feet upstream of confluence with Middle Patuxent River	2.42	1,000	2,170	2,910	2,910	5,480				
	SOUTH BRANCH PATAPSCO RIVER										
	Approximately 900 feet upstream of Marriottsville Road	64.65	6,830	13,100	16,800	20,900	28,400				
	Approximately 2,000 feet upstream of Gaither Road	42.11	5,250	10,200	13,100	22,400	16,000				
	Approximately 6,000 feet upstream of Watersville Road	5.49	1,730	3,690	4,920	5 <b>,</b> 290	9,180				
	STREAM CB-1		I	I							
	Approximately 300 feet upstream of confluence with Clyde's Branch	2.24	792	1,830	2,520	2,750	5,050				
	At confluence of Stream CB-1	1.51	715	1,510	2,020	2,210	3,760				
REVISED DATA 🔨	At confluence of Stream CB-4	0.79	528	1,140	1,530	1,530	2,910				
	Approximately 460 feet upstream of the confluence of Stream CB-4	0.29	296	682	933	933	1,752				
	At State Route 32	0.16	217	504	693	693	1,284				

<sup>1</sup>Please note that the Summary of Discharges table may not include all flow change locations found in the model







