



# Federal Emergency Management Agency

Washington, D.C. 20472

August 24, 2021

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

The Honorable Calvin Ball  
Howard County Executive  
3430 Court House Drive  
Ellicott City, MD 21043

IN REPLY REFER TO:

Case No.: 21-03-0437P  
Community Name: Howard County, MD  
Community No.: 240044  
FIRM Panel Affected: 24027C0090D

116

Dear Mr. Ball:

In a Letter of Map Revision (LOMR) dated April 2, 2021, you were notified of proposed flood hazard determinations affecting the Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) report for Howard County, MD. These determinations were for Little Plumtree Branch – from the confluence with Plumtree Branch to approximately 3,940 feet upstream of Ramblewood Road.. The 90-day appeal period that was initiated on April 22, 2021, when the Department of Homeland Security’s Federal Emergency Management Agency (FEMA) published a notice of proposed Flood Hazard Determinations in the *The Howard County Times* has elapsed.

FEMA received no valid requests for changes to the modified flood hazard information. Therefore, the determination as to the modified flood hazard information for your community is considered final. The modified flood hazard information and LOMR, referenced above, will become effective on August 20, 2021, and will revise the FIRM and FIS report that were in effect prior to that date.

The modifications are pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. The community number(s) and suffix code(s) are unaffected by this revision. The community number and appropriate suffix code as shown above will be used by the National Flood Insurance Program (NFIP) for all flood insurance policies and renewals issued for your community.

FEMA has developed criteria for floodplain management as required under the above-mentioned Acts of 1968 and 1973. To continue participation in the NFIP, your community must use the modified flood hazard information to carry out the floodplain management regulations for the NFIP. The modified flood hazard information will also be used to calculate the appropriate flood insurance premium rates for all new buildings and their contents and for the second layer of insurance on existing buildings and their contents.

If you have any questions regarding the necessary floodplain management measures for your community or the NFIP in general, please contact the Mitigation Division Director, FEMA Region III, in Philadelphia, Pennsylvania, either by telephone at (215) 931-5635, or in writing at Federal Emergency Management Agency, Region III, One Independence Mall, 6th Floor, 615 Chestnut Street, Philadelphia, Pennsylvania 19106.

If you have any questions regarding the LOMR, the proposed flood hazard determinations, or mapping issues in general, please call the FEMA Map Information eXchange, toll free, at (877) 336-2627 (877-FEMA MAP).

Sincerely,

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

cc: Mr. Mark S. Richmond, P.E.  
Stormwater Management Division Chief  
Howard County

Ms. Amy Hribar, P.E.  
Project Engineer  
McCormick Taylor, Inc.



# Federal Emergency Management Agency

Washington, D.C. 20472

## LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	Howard County Maryland (Unincorporated Areas)	NO PROJECT	BASE MAP CHANGES HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS UPDATED TOPOGRAPHIC DATA
	COMMUNITY NO.: 240044		
IDENTIFIER	Little Plumtree Branch Remapping	APPROXIMATE LATITUDE AND LONGITUDE: 39.281, -76.831 SOURCE: Other DATUM: NAD83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 24027C0090D DATE: November 6, 2013		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 6, 2013 PROFILE: 243P, 244P, 245P, AND 246P SUMMARY OF DISCHARGES TABLE: 5	

Enclosures reflect changes to flooding sources affected by this revision.

\* FIRM - Flood Insurance Rate Map

### FLOODING SOURCE AND REVISED REACH

Little Plumtree Branch – from the confluence with Plumtree Branch to approximately 3,940 feet upstream of Ramblewood Road.

### SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Little Plumtree Branch	Zone X (shaded) Zone X (shaded) No BFEs*	Zone AE Zone X (shaded) BFEs	YES YES YES	YES YES NONE

\* 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 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



# 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.

#### COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance flood discharges computed in the submitted hydrological model 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.

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>.

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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)**

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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Engineering Services Branch  
Federal Insurance and Mitigation Administration



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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](https://www.floodmaps.fema.gov/fhm/bfe_status/bfe_main.asp)

#### LOCAL NEWSPAPER

Name: *Howard County Times*

Dates: April 15, 2021 and April 22, 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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Engineering Services Branch  
Federal Insurance and Mitigation Administration

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

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (sq. miles)	PEAK DISCHARGES (cubic feet per second)				
		10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	Future 1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
<b>LAKE ELKHORN BRANCH</b>						
At confluence with Little Patuxent River	3.72	1,950	3,670	4,650	4,650	7,700
At confluence of Lake Elkhorn Branch Tributary 14	2.65	1,550	2,940	3,740	3,740	6,210
Approximately 500 feet downstream of Old Montgomery Road	1.48	1,030	1,990	2,540	2,540	4,280
<b>LITTLE PATUXENT RIVER</b>						
At County Boundary	109.2	11,063	22,903	30,340	31,675	56,061
At confluence of Middle Patuxent River	97.5	10,547	22,028	29,295	30,084	54,481
Approximately 500 upstream of confluence of Stream LPR-1	28.07	5,570	11,200	14,600	14,800	26,100
At State Route 108	21.5	4,380	9,030	11,900	12,300	21,800
At U.S. Route 40	7.13	2,060	4,360	5,810	6,220	10,800
<b>LITTLE PLUMTREE BRANCH</b>						
At confluence with Plumtree Branch	0.85	619	852	1,078	*	2,190
<b>MIDDLE PATUXENT RIVER</b>						
At confluence with Little Patuxent River	57.65	6,411	14,162	19,361	20,543	37,964
At Clarksville Pike	36.92	4,920	9,560	12,300	14,700	21,200
At State Route 32	11.36	2,350	4,710	6,150	7,110	10,900
<b>NEW CUT BRANCH</b>						
Downstream of confluence with Autumn Hill Branch to confluence with Tiber-Hudson Branch	1.52	748	1,620	2,180	2,440	4,100
At Private Drive (Station 4924)	0.86	350	745	997	1,730	1,880
At New Cut Road	0.28	174	380	514	787	995

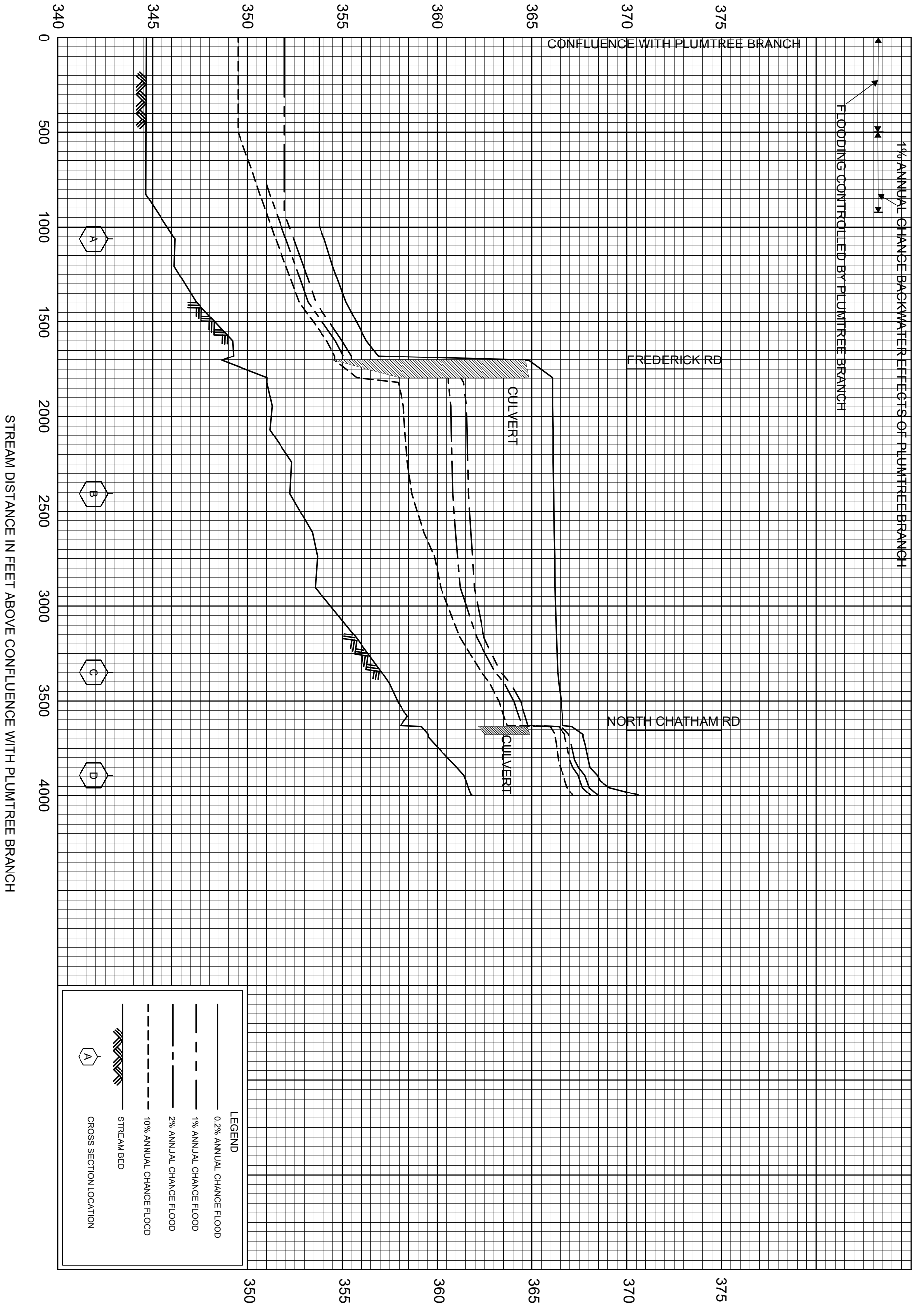
<sup>1</sup>Please note that the Summary of Discharges table may not include all flow change locations found in the model

\*Data not computed

REVISED TO REFLECT LOMR EFFECTIVE: August 20, 2021

REVISED DATA

ELEVATION IN FEET (NAVD88)



FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD  
AND INCORPORATED AREAS

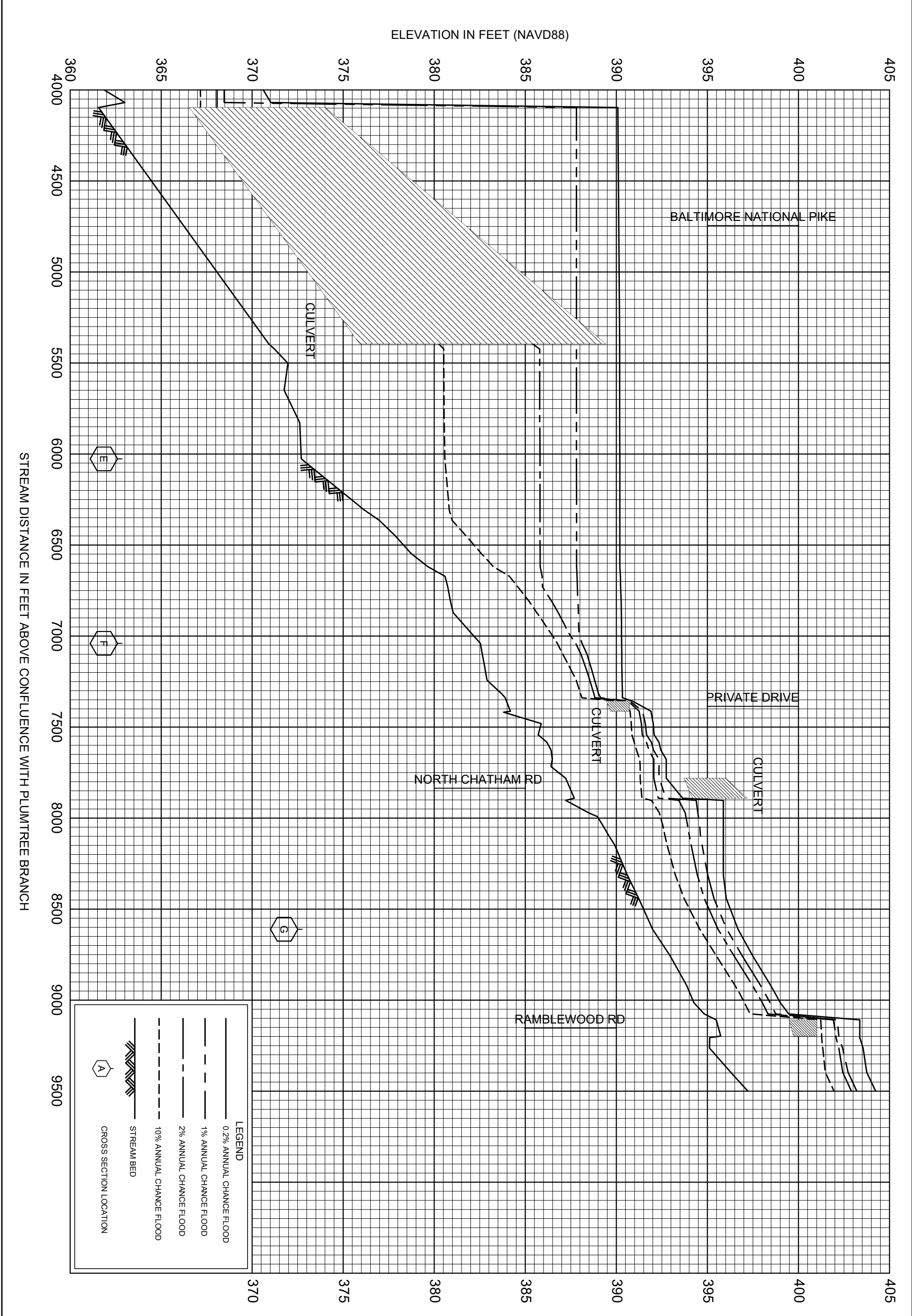
FLOOD PROFILES

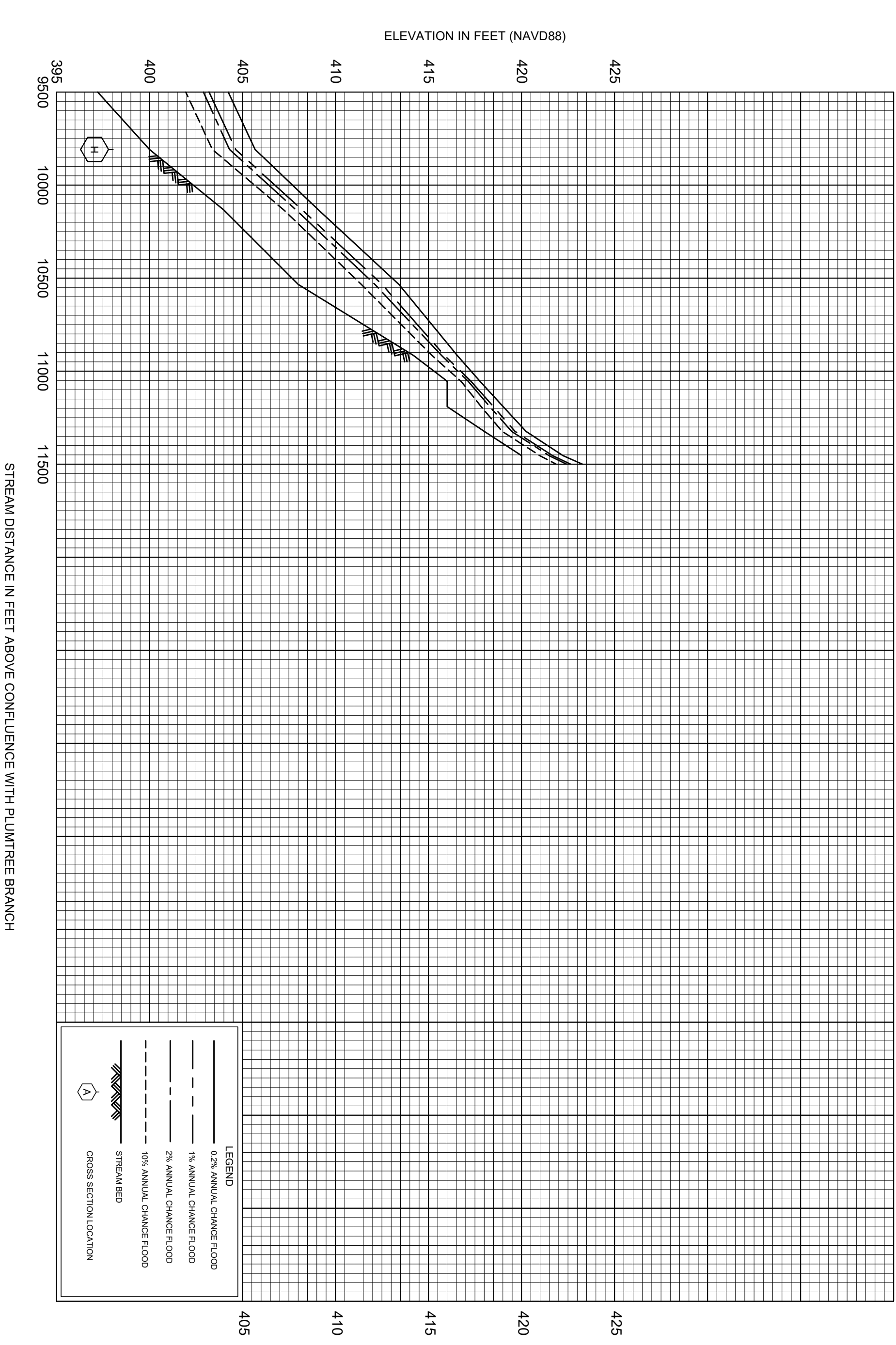
REVISED TO  
REFLECT LOMR  
EFFECTIVE: August 20, 2021

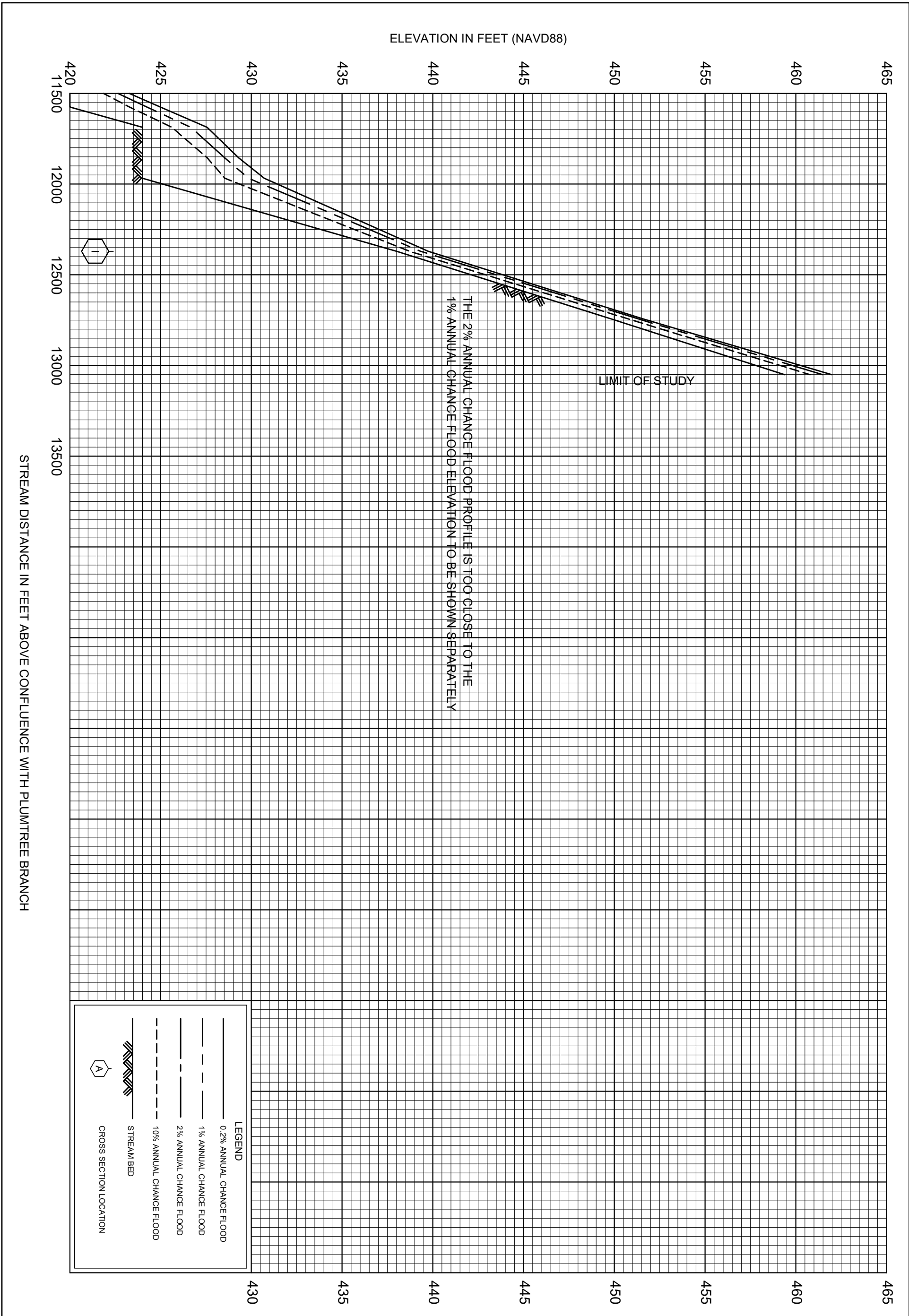
LITTLE PLUMTREE BRANCH

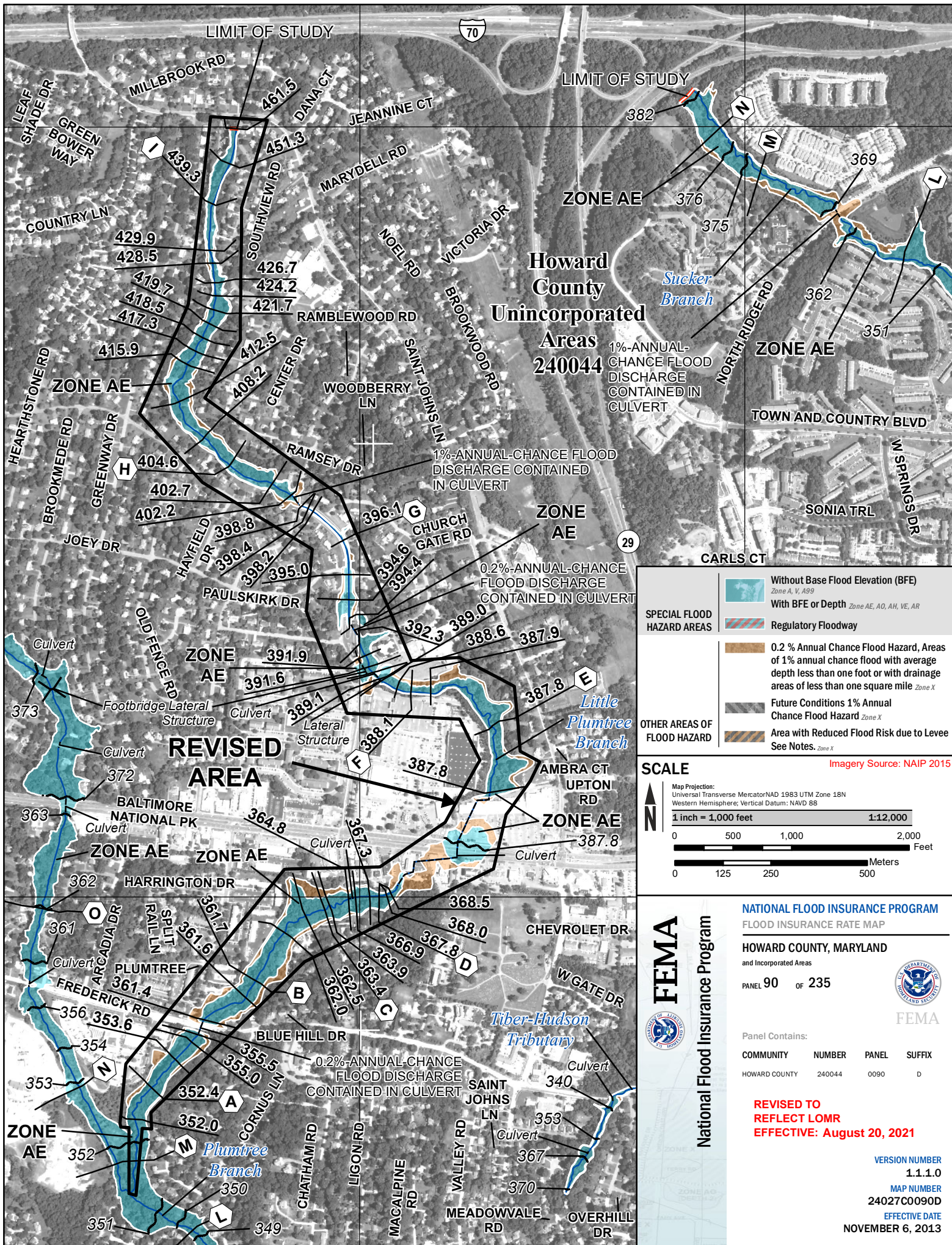
243P











**Howard County  
Unincorporated  
Areas  
240044**

1%-ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN CULVERT

1%-ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN CULVERT

0.2%-ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN CULVERT

0.2%-ANNUAL-CHANCE FLOOD DISCHARGE CONTAINED IN CULVERT

**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**

Map Projection:  
Universal Transverse Mercator/NAD 1983 UTM Zone 18N  
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 1,000 feet      1:12,000

0 500 1,000 2,000 Feet

0 125 250 500 Meters

Imagery Source: NAIP 2015

**FEMA**  
National Flood Insurance Program

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

HOWARD COUNTY, MARYLAND  
and Incorporated Areas

PANEL 90 of 235

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
HOWARD COUNTY	240044	0090	D

**REVISED TO REFLECT LOMR  
EFFECTIVE: August 20, 2021**

VERSION NUMBER 1.1.1.0  
MAP NUMBER 24027C0090D  
EFFECTIVE DATE NOVEMBER 6, 2013