

FLOOD INSURANCE STUDY



HOWARD COUNTY, MARYLAND AND INCORPORATED AREAS

Volume 3 of 3

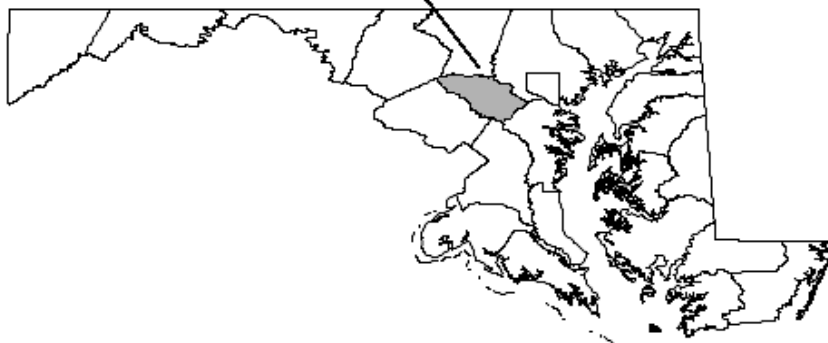
COMMUNITY
NAME

HOWARD COUNTY
(UNINCORPORATED AREAS)

COMMUNITY
NUMBER

240044

Howard
County



EFFECTIVE DATE: November 6, 2013

Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
24027CV003A



**NOTICE TO
FLOOD INSURANCE STUDY USERS**

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) may not contain all data available within the repository. It is advisable to contact the community repository for any additional data.

The Federal Emergency Management Agency (FEMA) may revise and republish part or all of this FIS report at any time. In addition, FEMA may revise part of this FIS report by the Letter of Map Revision process, which does not involve republication or redistribution of the FIS report. Therefore, users should consult with community officials and check the Community Map Repository to obtain the most current FIS report components.

Flood Insurance Rate Map panels for this community contain new flood zone designations. The flood hazard zones have been changed as follows:

<u>Old Zones</u>	<u>New Zones</u>
A1 through A30	AE
B	X
C	X

Initial Countywide FIS Effective Date: November 6, 2013

TABLE OF CONTENTS-Volume 1 – November 6, 2013

	<u>Page</u>
1.0 <u>INTRODUCTION</u>	1
1.1 Purpose of Study	1
1.2 Authority and Acknowledgments	1
1.3 Coordination	3
2.0 <u>AREA STUDIED</u>	3
2.1 Scope of Study	3
2.2 Community Description	7
2.3 Principal Flood Problems	8
2.4 Flood Protection Measures	9
3.0 <u>ENGINEERING METHODS</u>	9
3.1 Hydrologic Analyses	10
3.2 Hydraulic Analyses	26
3.3 Vertical Datum	30
4.0 <u>FLOODPLAIN MANAGEMENT APPLICATIONS</u>	31
4.1 Floodplain Boundaries	31
4.2 Floodways	32
5.0 <u>INSURANCE APPLICATIONS</u>	32
6.0 <u>FLOOD INSURANCE RATE MAP</u>	33
7.0 <u>OTHER STUDIES</u>	33
8.0 <u>LOCATION OF DATA</u>	35
9.0 <u>BIBLIOGRAPHY AND REFERENCES</u>	35

TABLE OF CONTENTS-Volume 1 – continued

	<u>Page</u>
<u>TABLES</u>	
Table 1 – Flooding Sources Studied by Detailed Methods	4-5
Table 2 – Flooding Sources Studied by Approximate Methods	5-7
Table 3 – Piedmont Rural Equations	11
Table 4 – Piedmont Urban Equations	12
Table 5 – Summary of Discharges	13-26
Table 6 – Manning’s "n" Values	27-29
Table 7 – Community Map History	34

EXHIBITS

Exhibit 1 – Flood Profiles

Autumn Hill Branch	Panels 01P-03P
Beaver Run Branch	Panels 04P-06P
Benson Branch	Panels 07P-10P
Bonnie Branch	Panels 11P-19P
Cat Rock Run	Panels 20P-23P
Clark’s Creek	Panels 24P-25P
Clyde’s Branch	Panels 26P-30P
Deep Run	Panels 31P-41P
Dorsey Run	Panels 42P-46P
East Tributary Rockburn Branch	Panel 47P
Guilford Branch	Panels 48P-51P
Guilford Run	Panels 52P-53P
Hammond Branch	Panels 54P-61P
Lake Elkhorn Branch	Panels 62P-64P

TABLE OF CONTENTS-Volume 2 – November 6, 2013

Exhibit 1 – Flood Profiles (continued)

Little Patuxent River	Panels 65P-73P
Middle Patuxent River	Panels 74P-84P
New Cut Branch	Panels 85P-93P
North Tributary West Branch Dorsey Run	Panels 94P-96P
Patapsco River	Panels 97P-105P
Patuxent River	Panel 106P

TABLE OF CONTENTS-Volume 2– continued

Plumtree Branch	Panels 107P-110P
Red Hill Branch	Panels 111P-114P
Right Fork North Tributary West Branch Dorsey Run	Panel 115P
Rockburn Branch	Panels 116P-127P
Sanner Road Tributary	Panel 128P
South Branch Patapsco River	Panels 129P-143P
Stream CB-1	Panels 144P-147P
Stream CB-2	Panels 148P-149P
Stream CB-3	Panel 150P
Stream CB-4	Panel 151P
Stream CB-5	Panels 152P-153P
Stream CB-6	Panels 154P-155P
Stream CB-7	Panel 156P
Stream CB-8	Panel 157P
Stream CB-9	Panel 158P

TABLE OF CONTENTS-Volume 3 – November 6, 2013

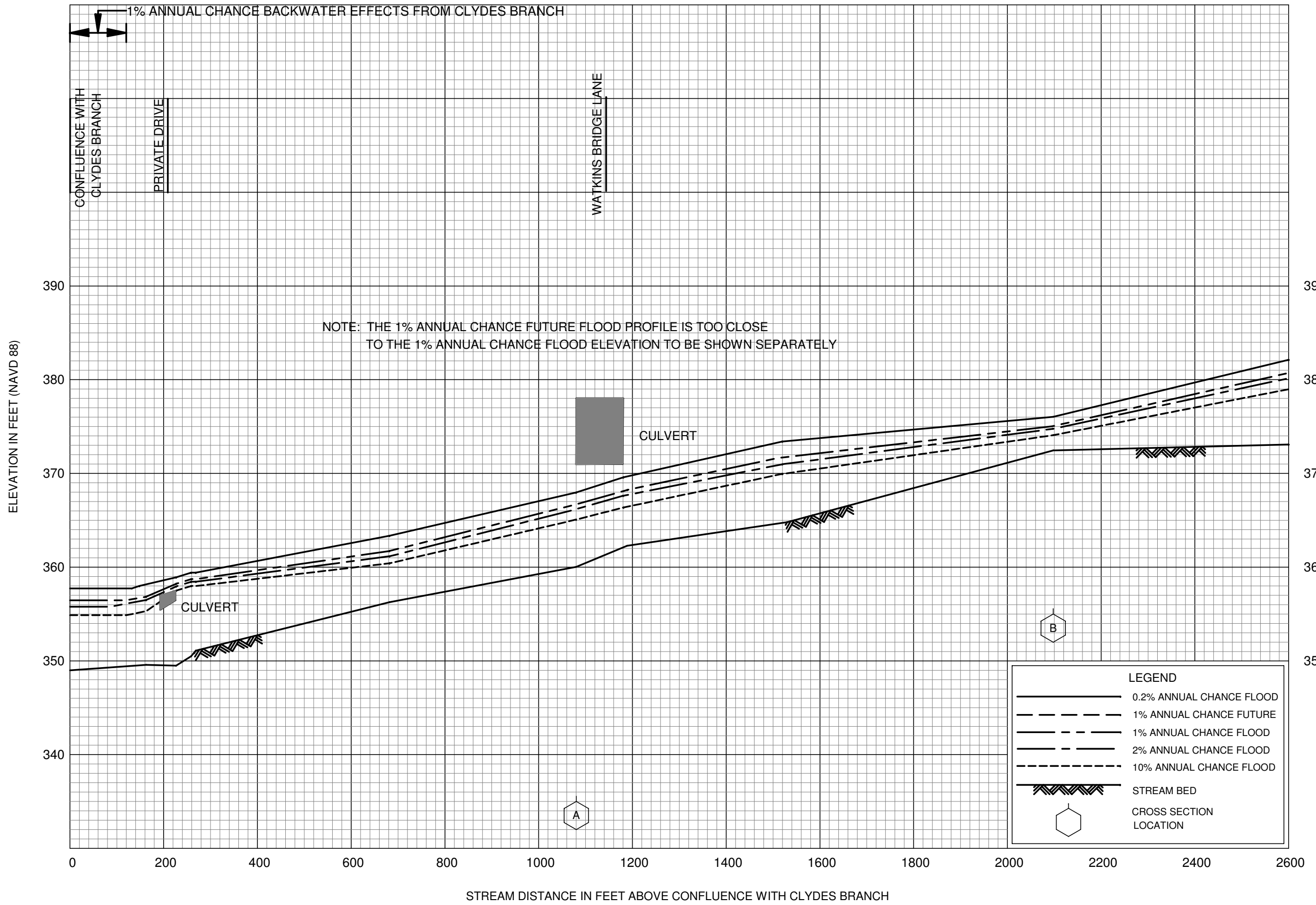
Exhibit 1 – Flood Profiles (continued)

Stream CB-10	Panels 159P-162P
Stream CB-11	Panels 163P-164P
Stream CB-12	Panel 165P
Stream CB-13	Panel 166P
Stream CB-14	Panels 167P-168P
Stream CB-15	Panel 169P
Stream CB-16	Panels 170P-171P
Stream CB-17	Panel 172P
Stream CB-18	Panel 173P
Stream DR-1	Panels 174P-180P
Stream DR-2	Panels 181P-184P
Stream DR-3	Panels 185P-188P
Stream DR-4	Panels 189P-191P
Stream DR-5	Panel 192P
Stream HB-1	Panel 193P
Stream HB-2	Panel 194P
Stream HB-3	Panel 195P
Stream HB-4	Panel 196P
Stream HB-5	Panel 197P
Stream HB-6	Panel 198P
Stream HB-7	Panel 199P
Stream HB-8	Panel 200P

TABLE OF CONTENTS-Volume 3 – continued

Stream HB-9	Panel 201P
Stream HB-10	Panel 202P
Stream HB-11	Panel 203P
Stream HB-12	Panel 204P
Stream LPR-1	Panels 205P-206P
Stream LPR-2	Panels 207P-208P
Stream LPR-3	Panels 209P-210P
Stream LPR-4	Panel 211P
Stream LPR-5	Panel 212P
Stream LPR-6	Panels 213P-214P
Sucker Branch	Panels 215P-221P
Sucker Branch Tributary 1	Panels 222P-225P
Sucker Branch Tributary 2	Panel 226P
Tiber Hudson Branch	Panels 227P-231P
Tiber Hudson Tributary	Panels 232P
Tributary to Beaver Run Branch	Panel 233P
Tributary to Bonnie Branch	Panel 234P
Vista Road Tributary	Panels 235P-236P
West Branch Dorsey Run	Panels 237P-240P
Wilde Lake Branch	Panels 241P-242P

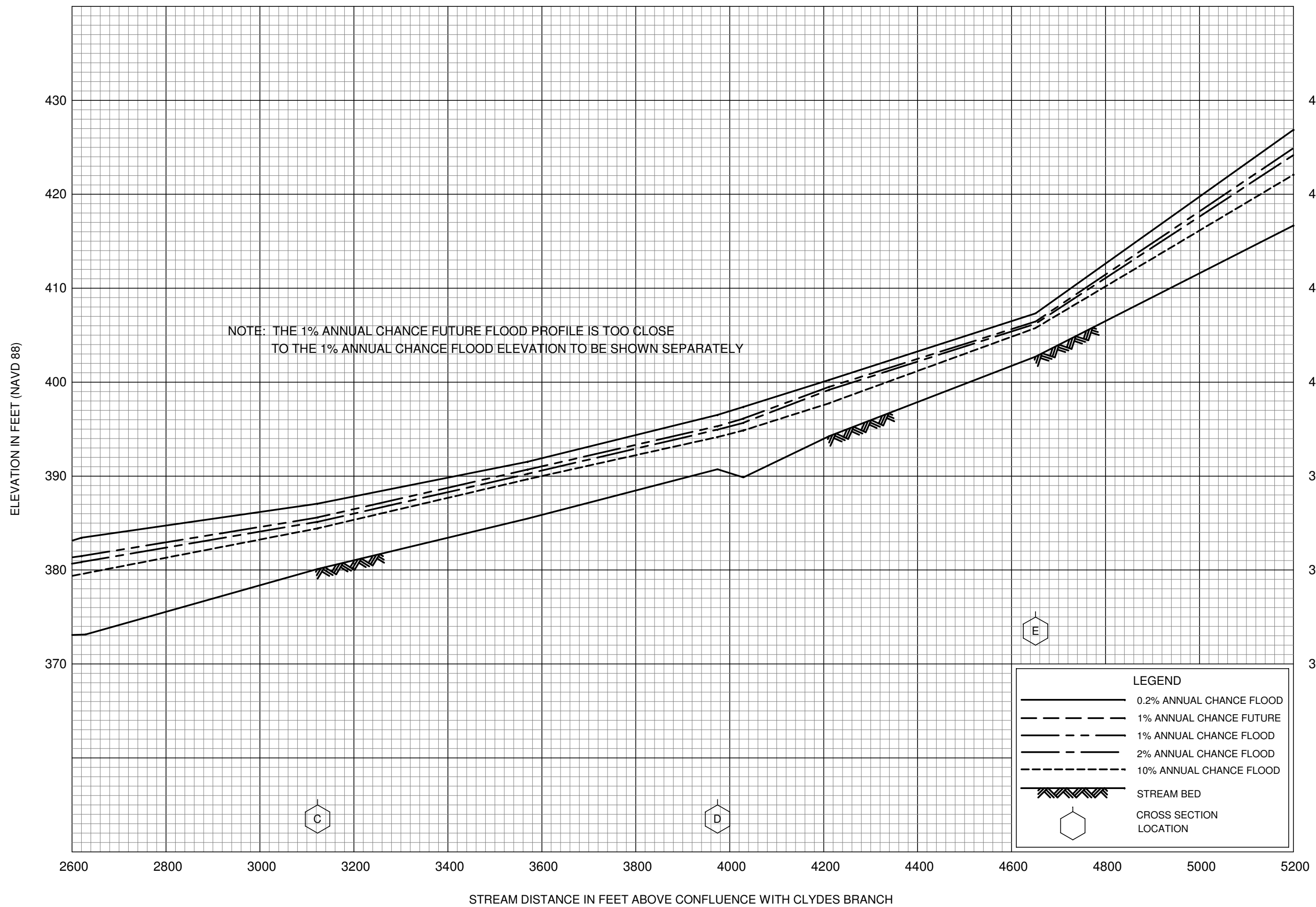
Exhibit 2 – Flood Insurance Rate Map Index
Flood Insurance Rate Map



FLOOD PROFILES

STREAM CB-10

FEDERAL EMERGENCY MANAGEMENT AGENCY
 HOWARD COUNTY, MD
 AND INCORPORATED AREAS

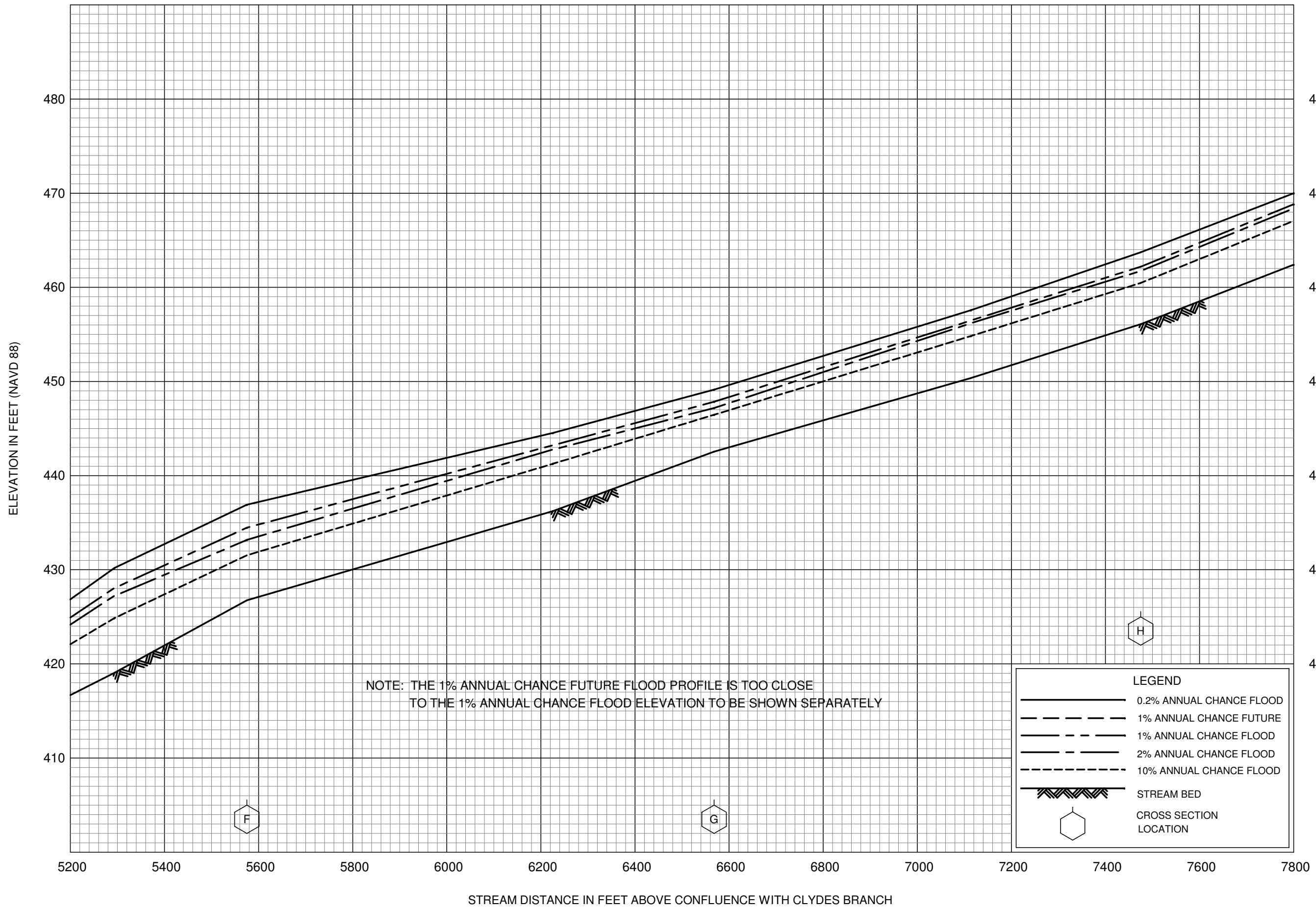


FLOOD PROFILES

STREAM CB-10

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS

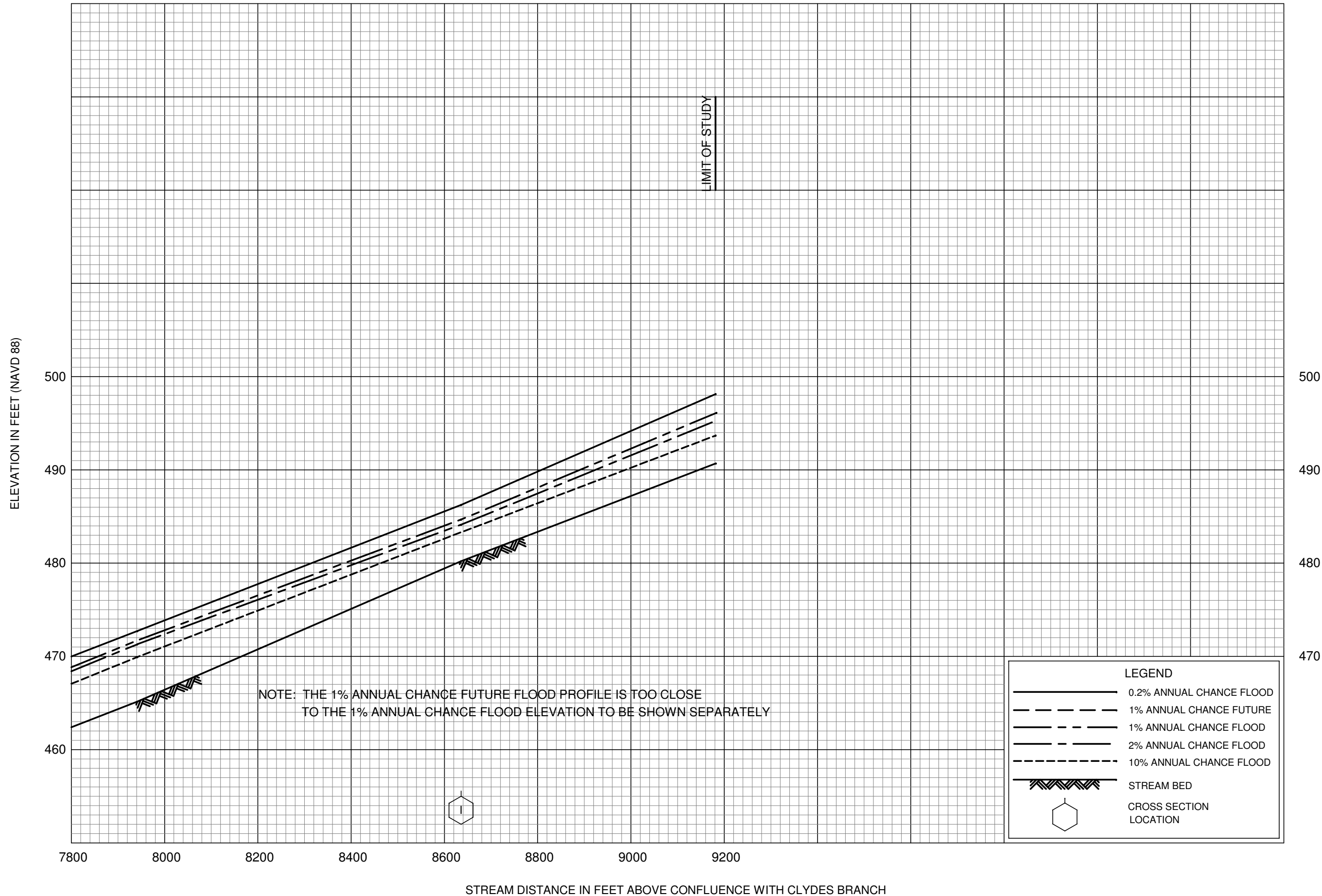


FLOOD PROFILES

STREAM CB-10

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



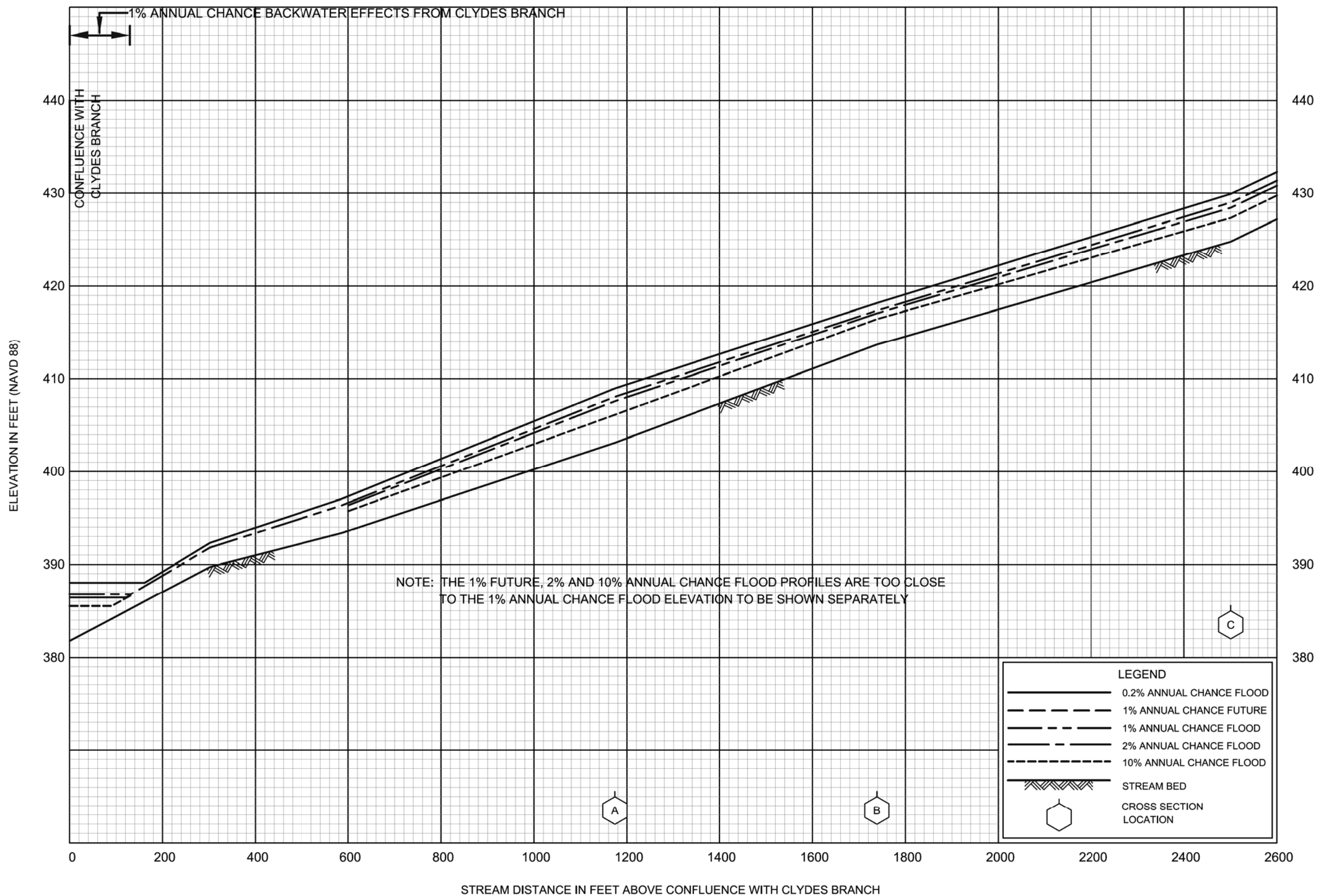
FLOOD PROFILES

STREAM CB-10

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS

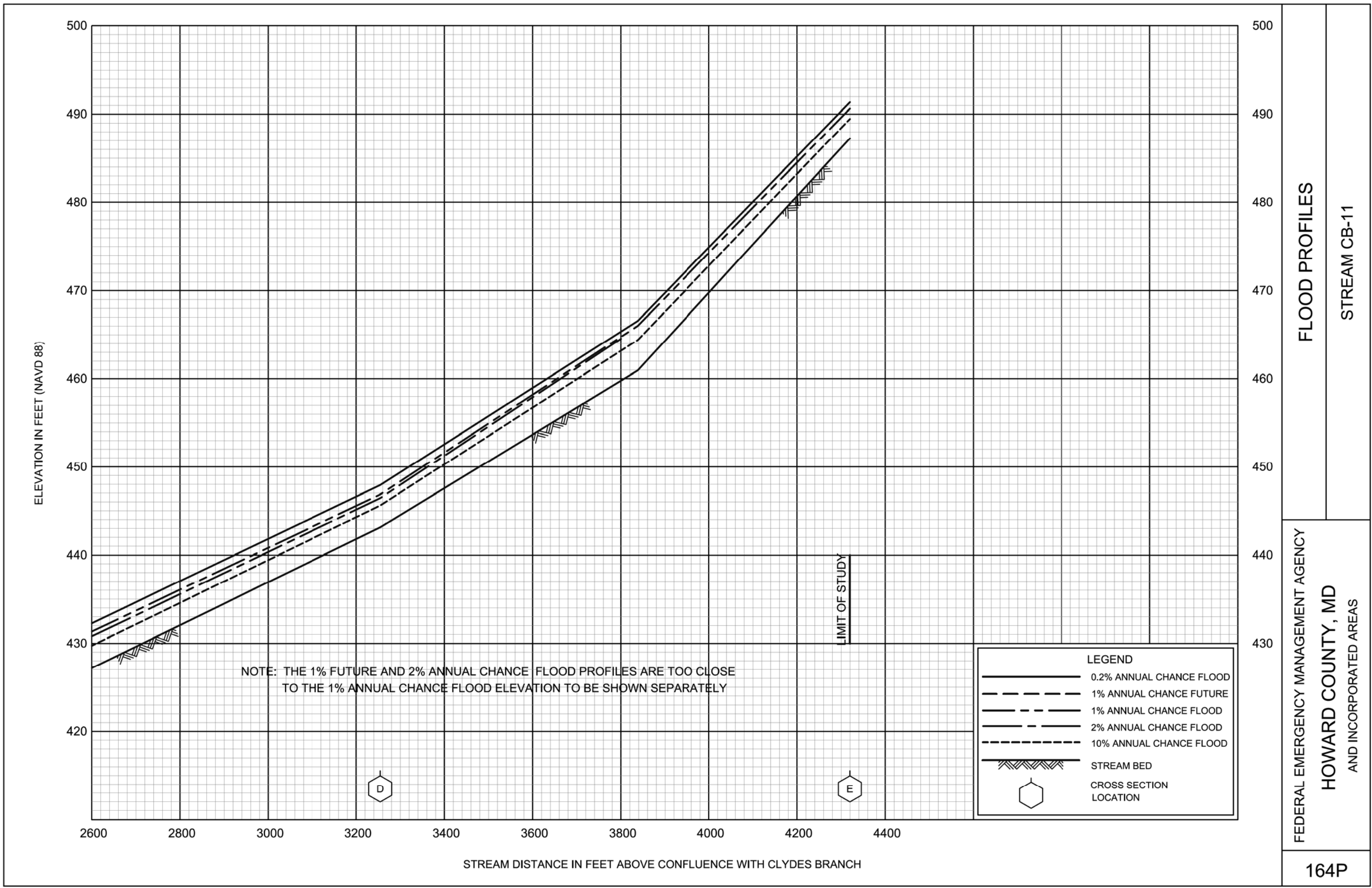


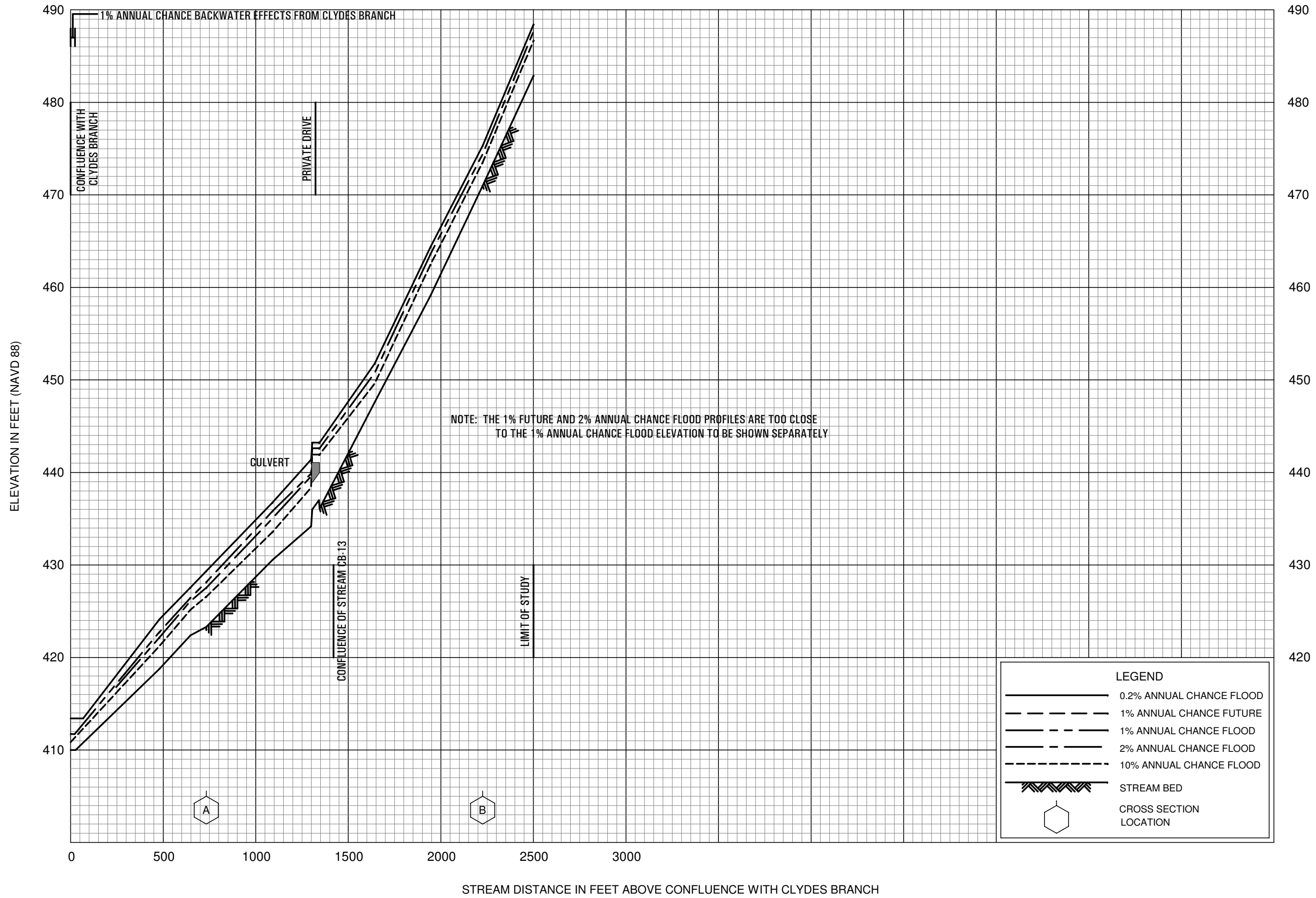
FLOOD PROFILES

STREAM CB-11

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS





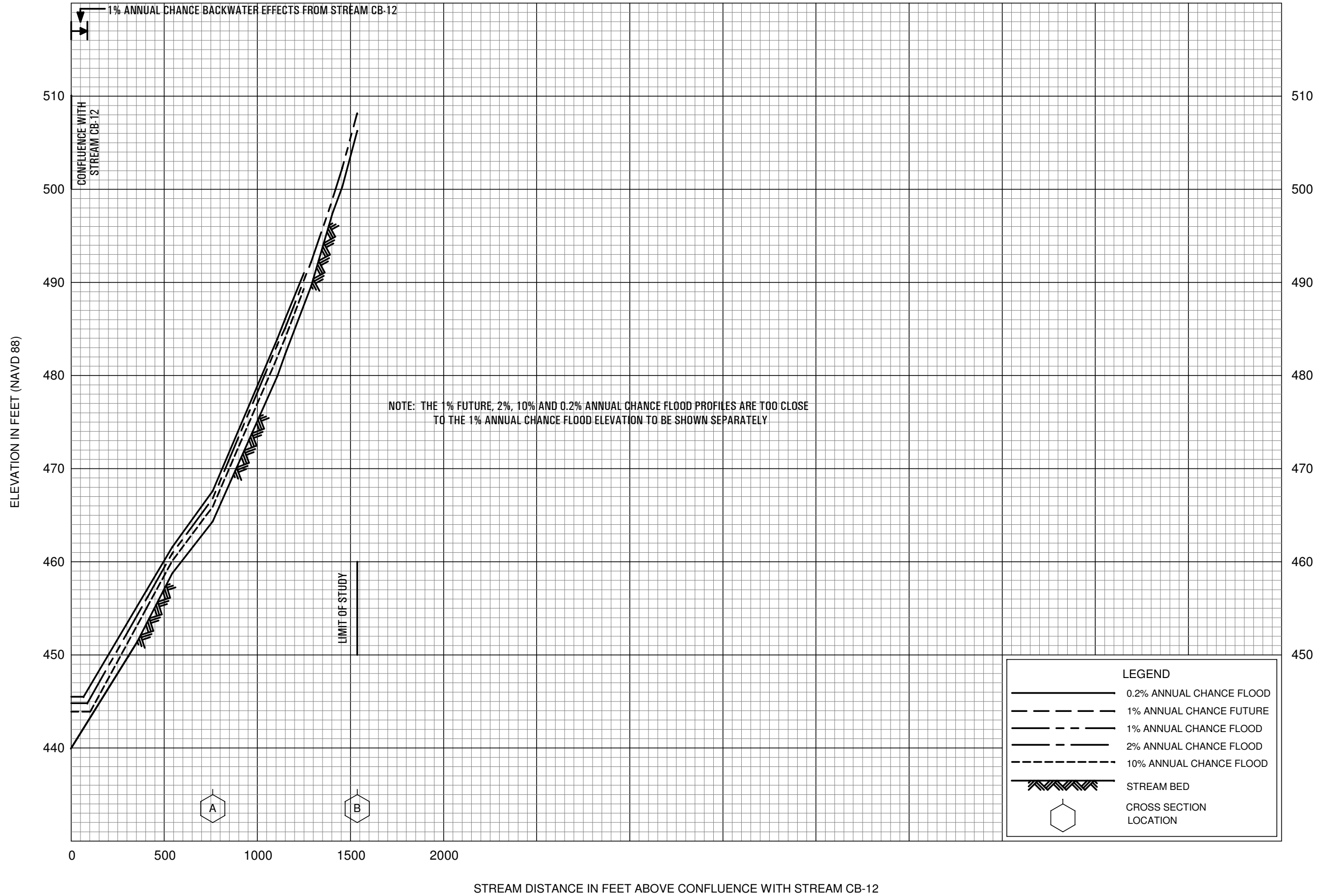
FLOOD PROFILES

STREAM CB-12

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS



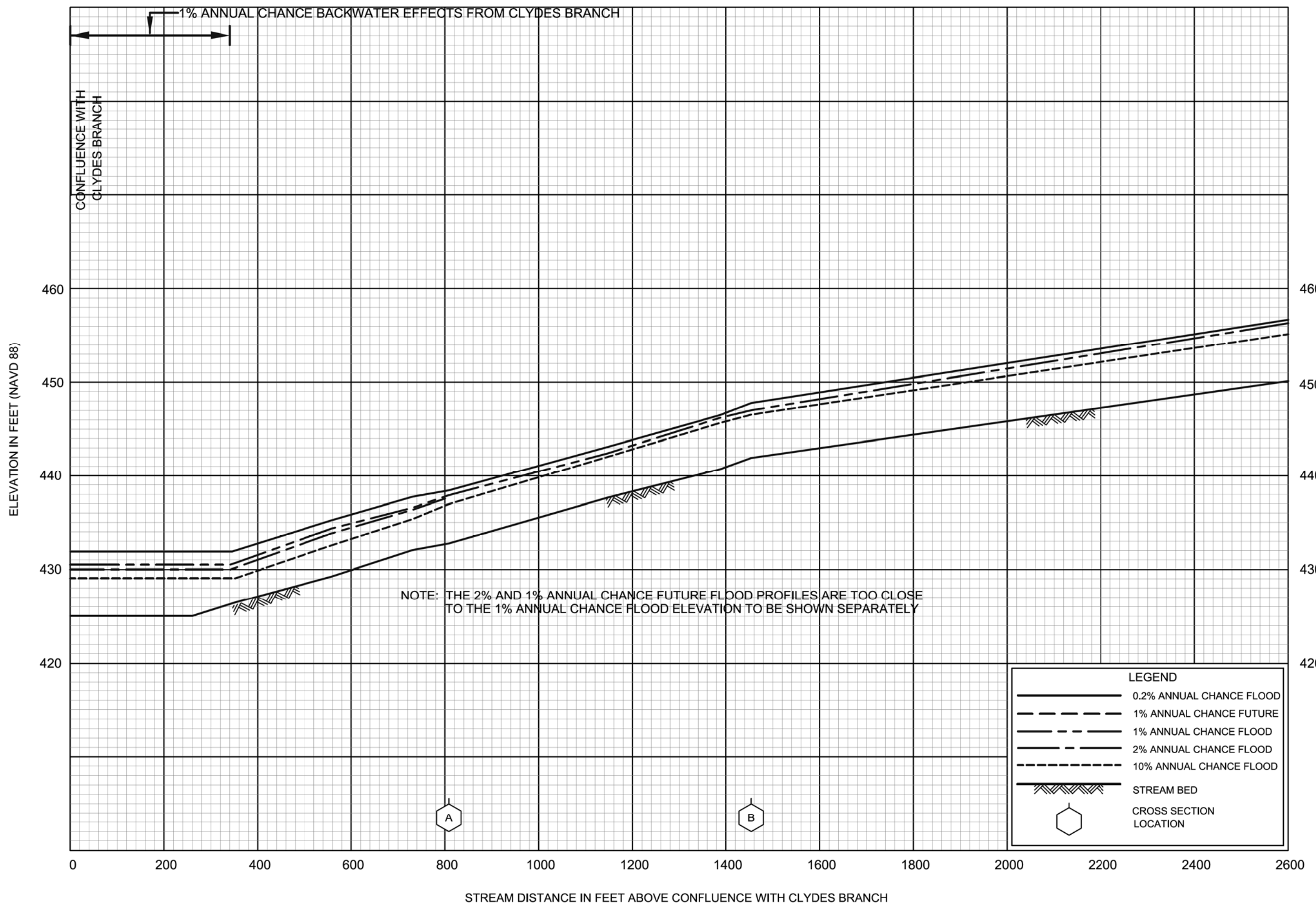
FLOOD PROFILES

STREAM CB-13

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS

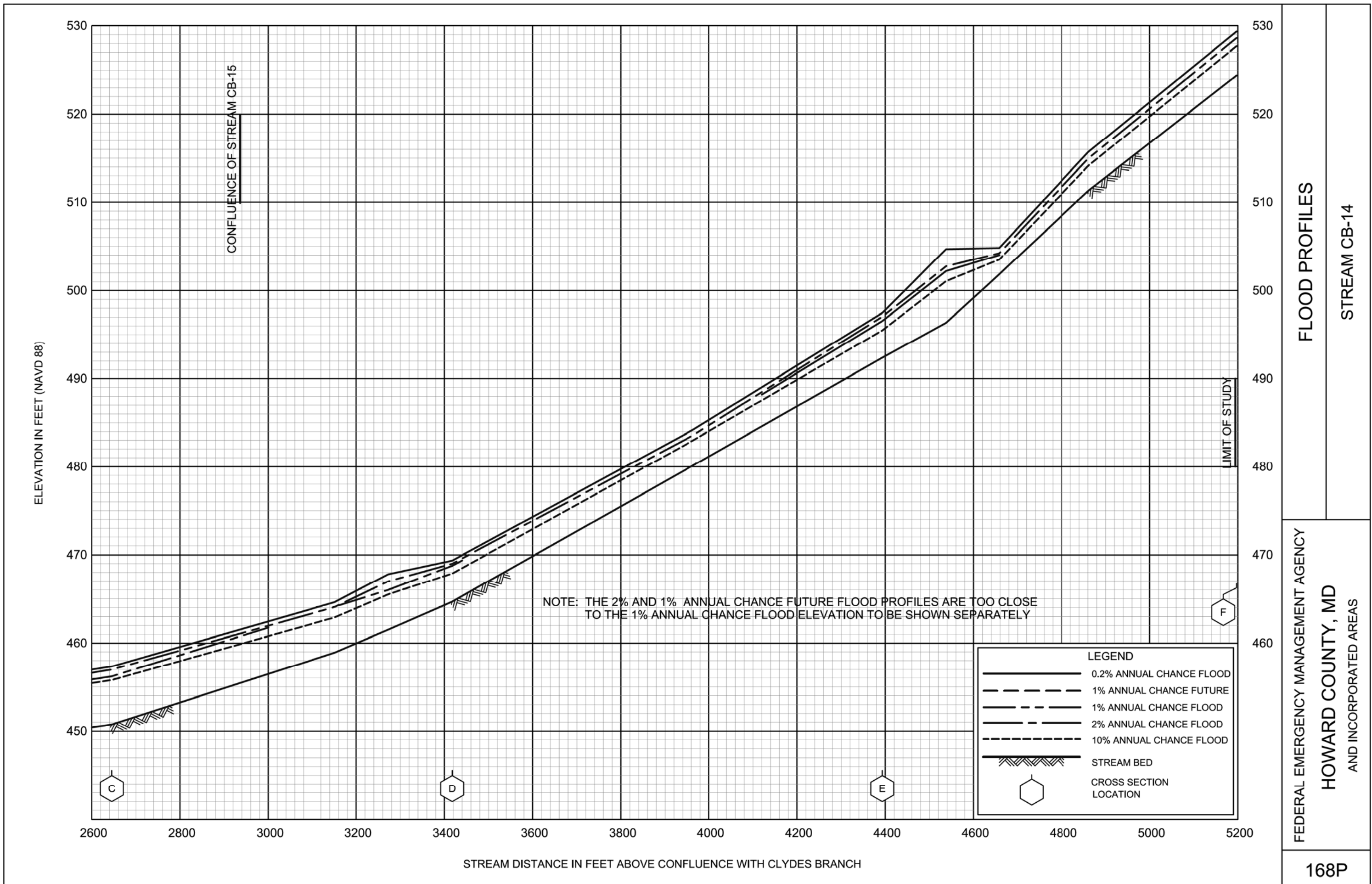


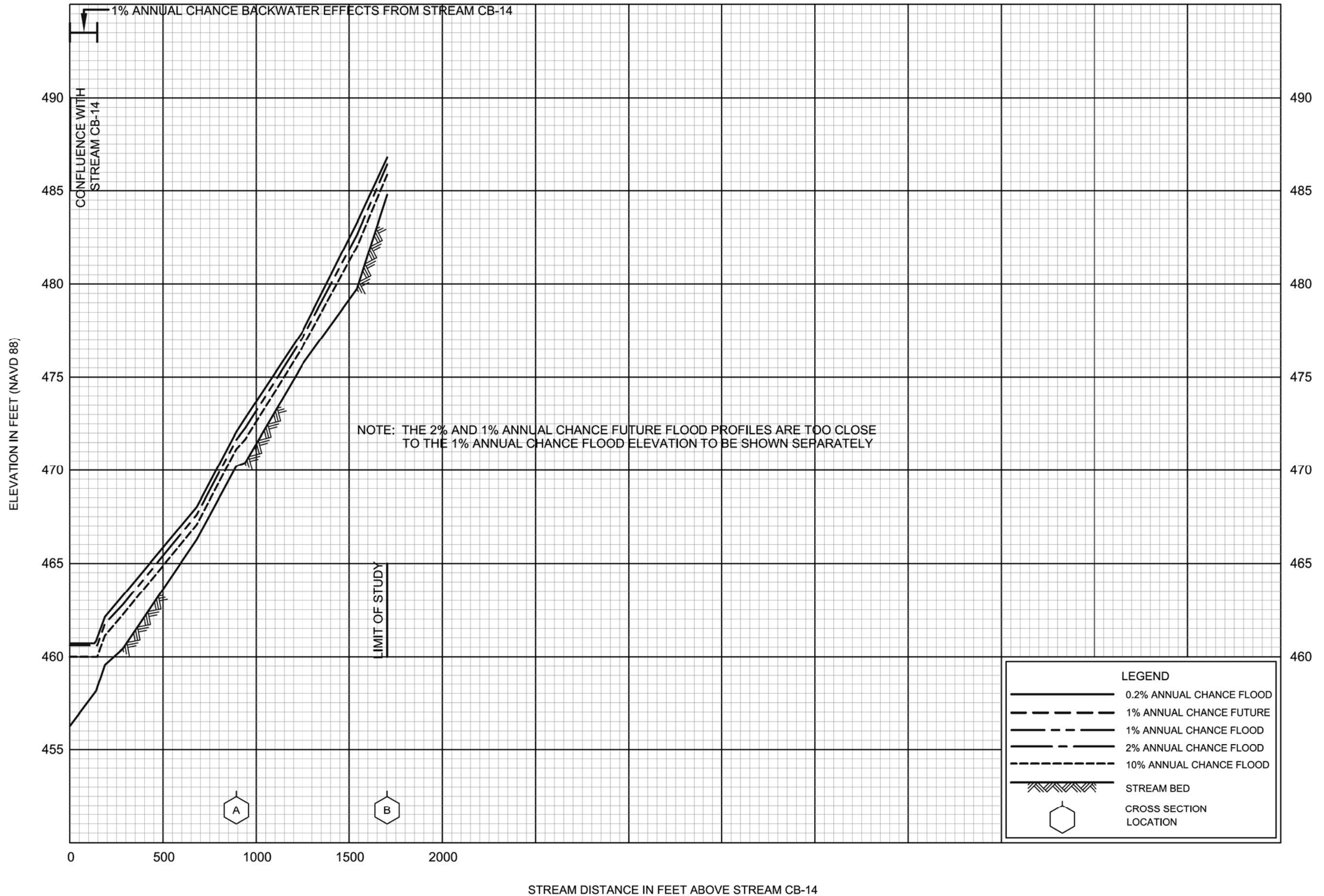
FLOOD PROFILES

STREAM CB-14

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



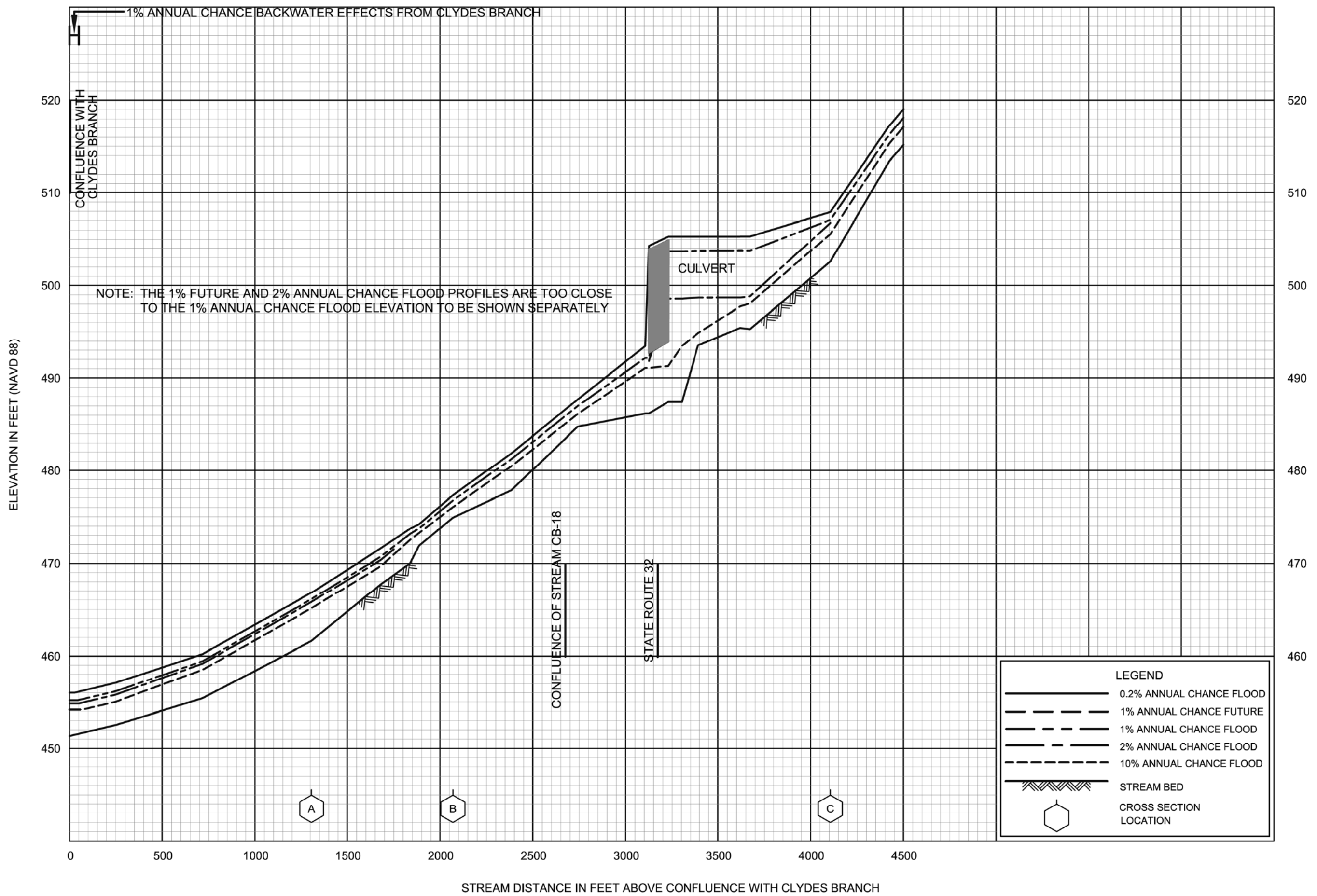


FLOOD PROFILES

STREAM CB-15

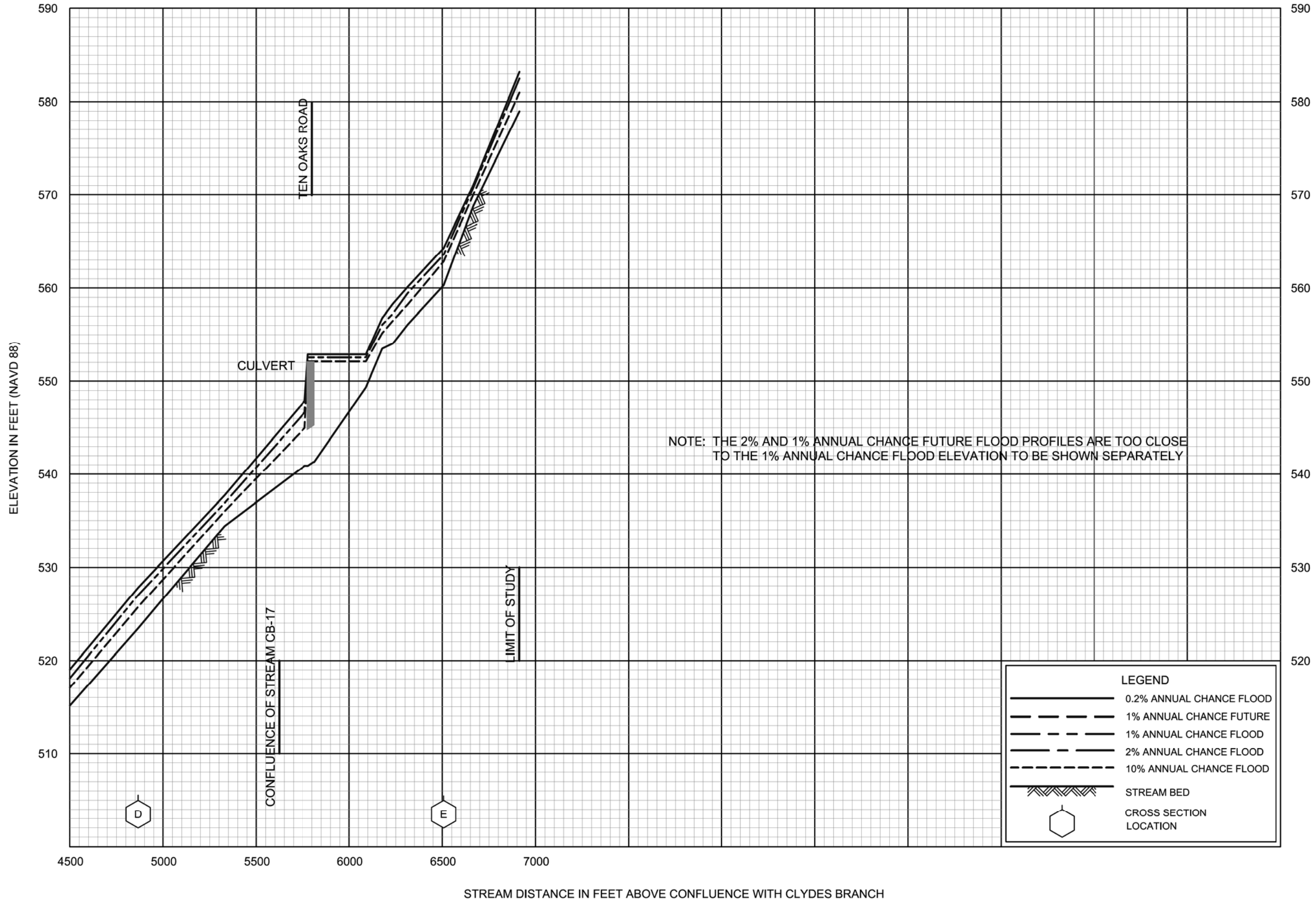
FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



FLOOD PROFILES
STREAM CB-16

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS

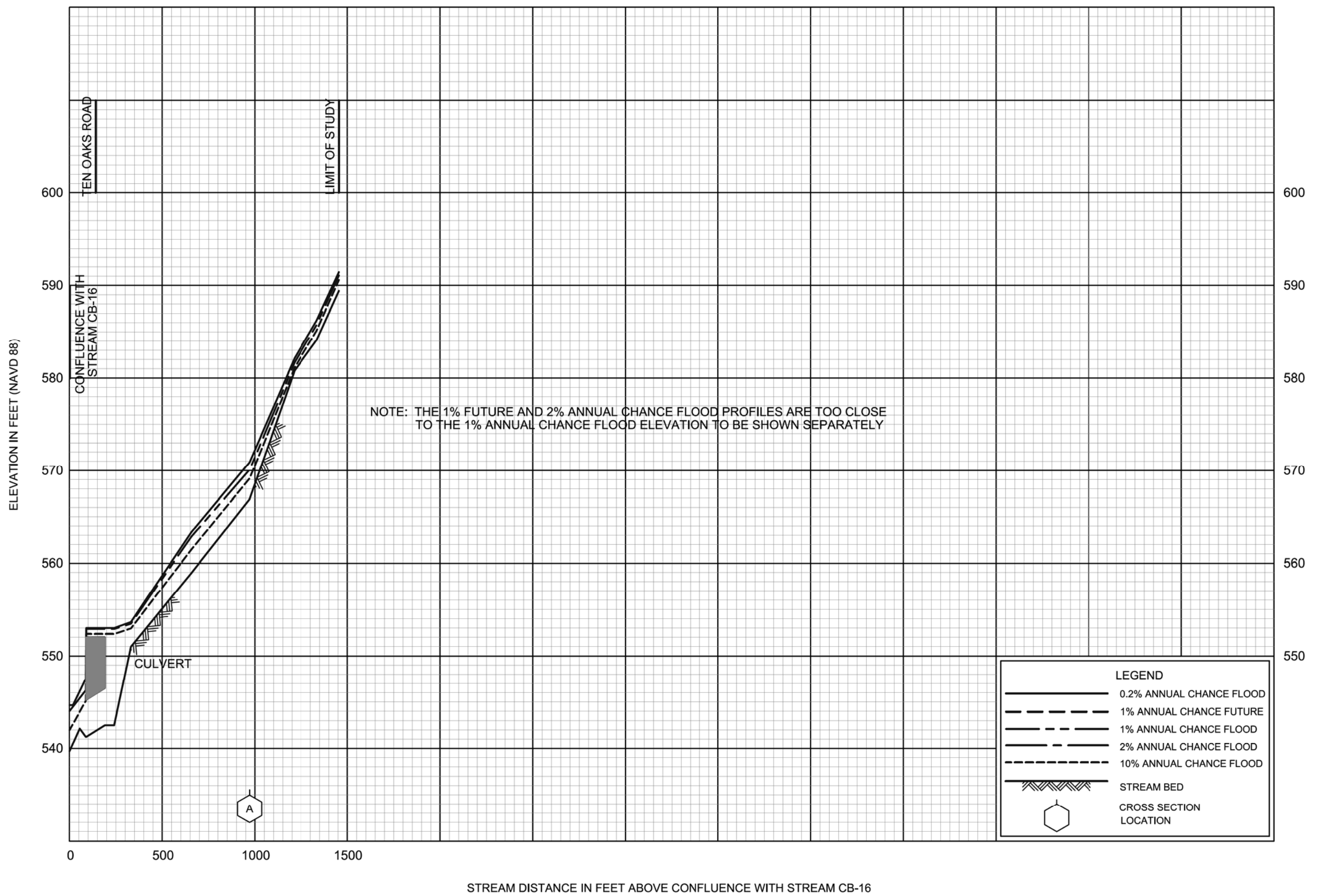


FLOOD PROFILES

STREAM CB-16

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



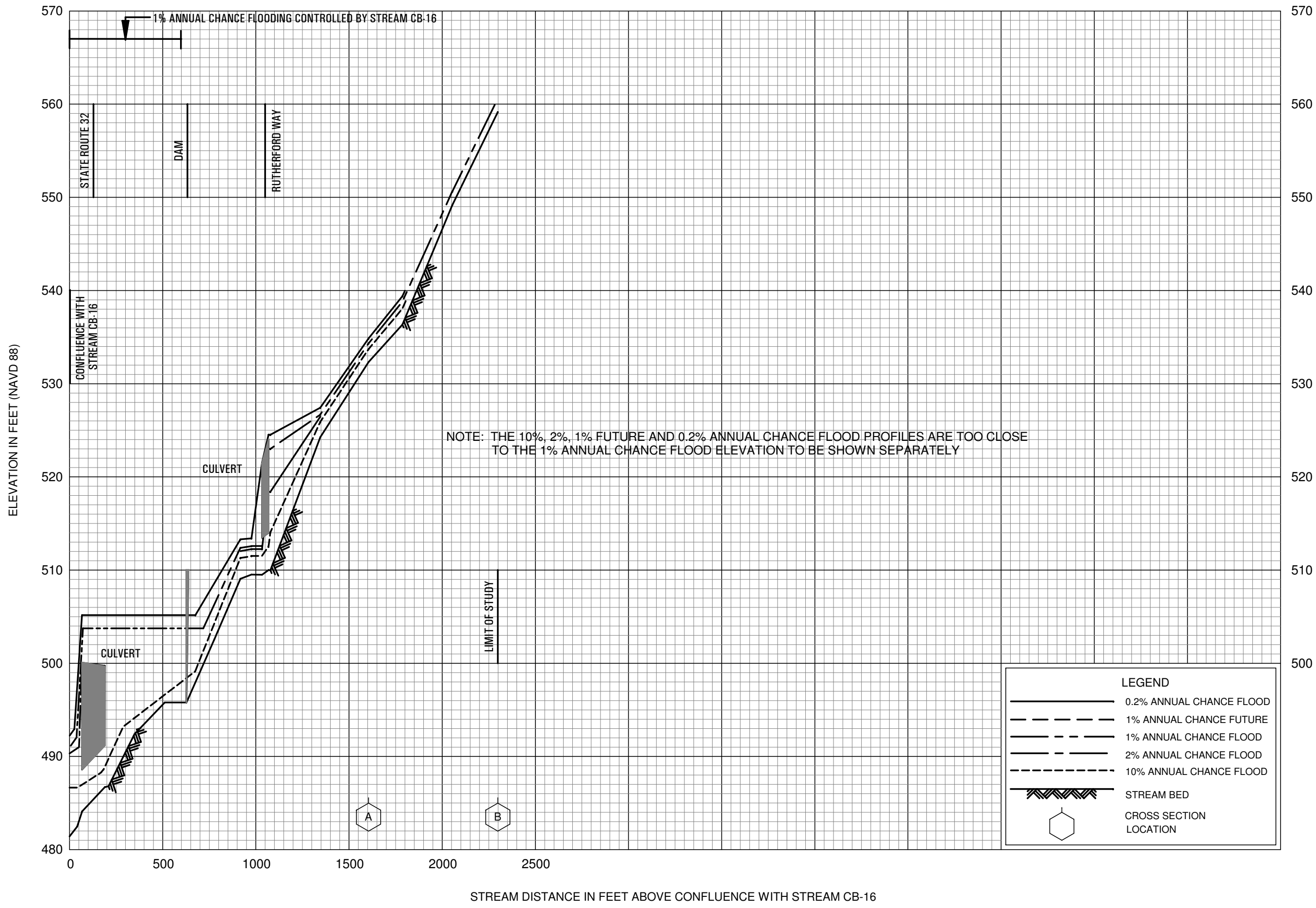
LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FUTURE
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD
	10% ANNUAL CHANCE FLOOD
	STREAM BED
	CROSS SECTION LOCATION

FLOOD PROFILES

STREAM CB-17

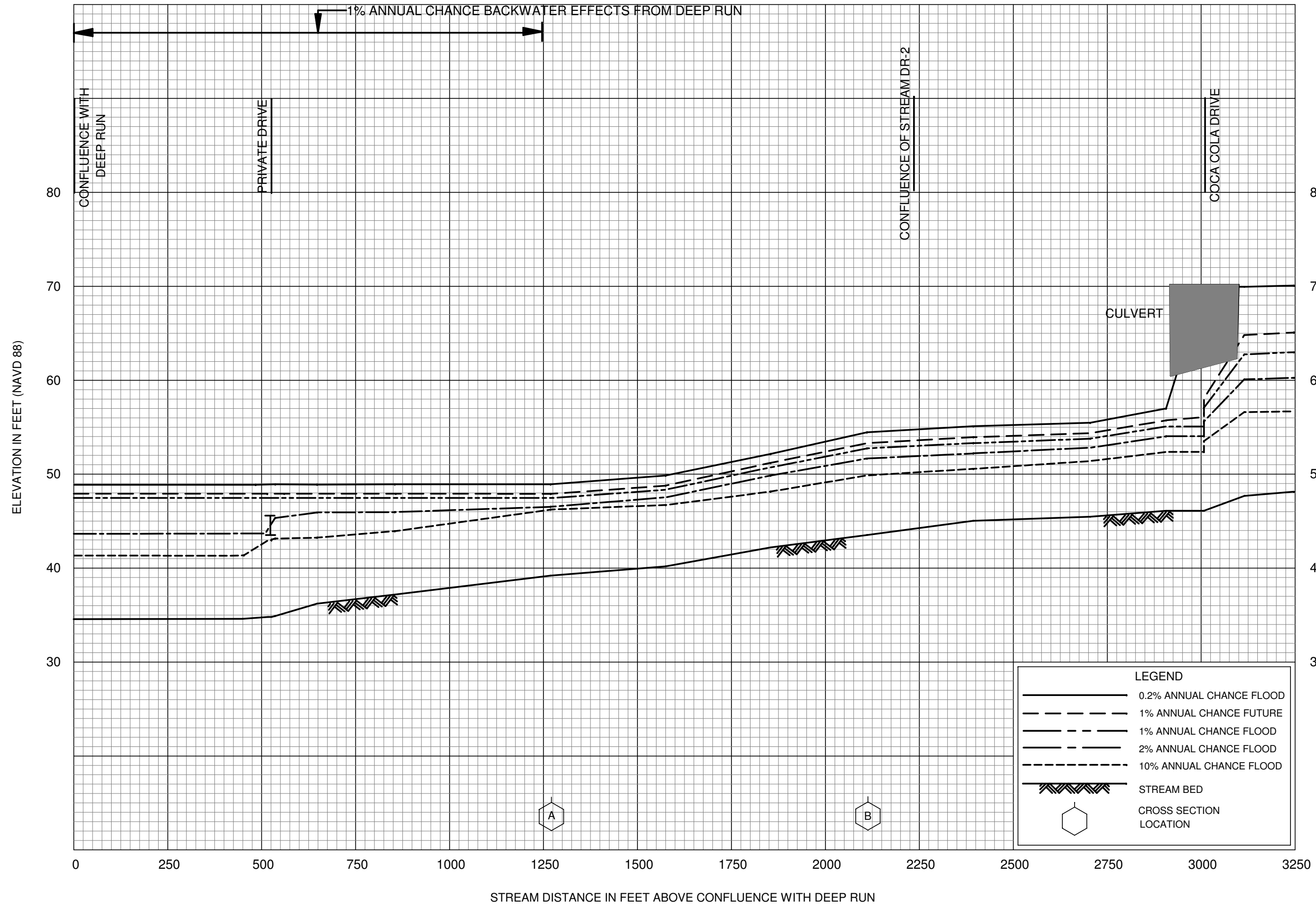
FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



FLOOD PROFILES
STREAM CB-18

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS



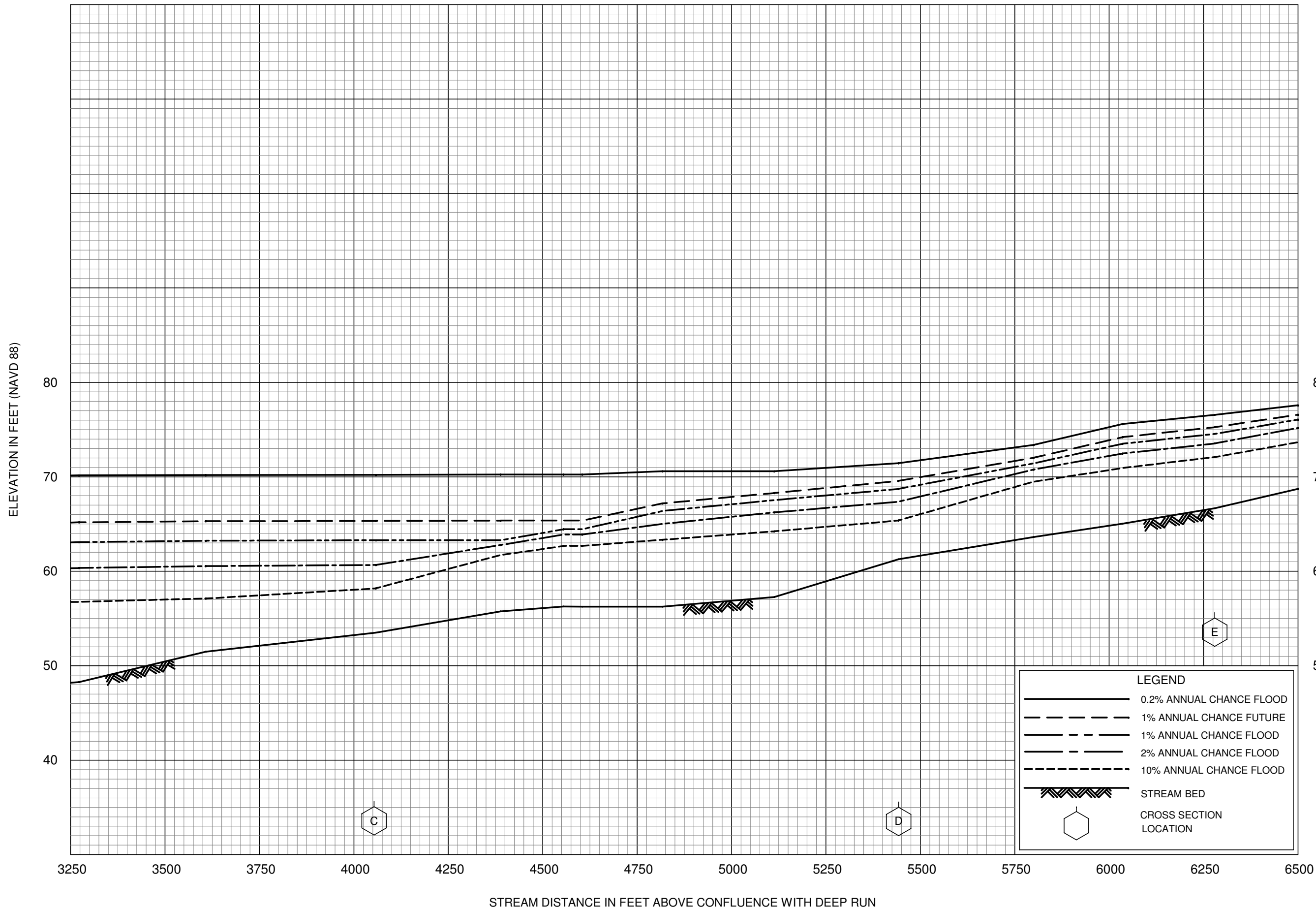
FLOOD PROFILES

STREAM DR-1

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS

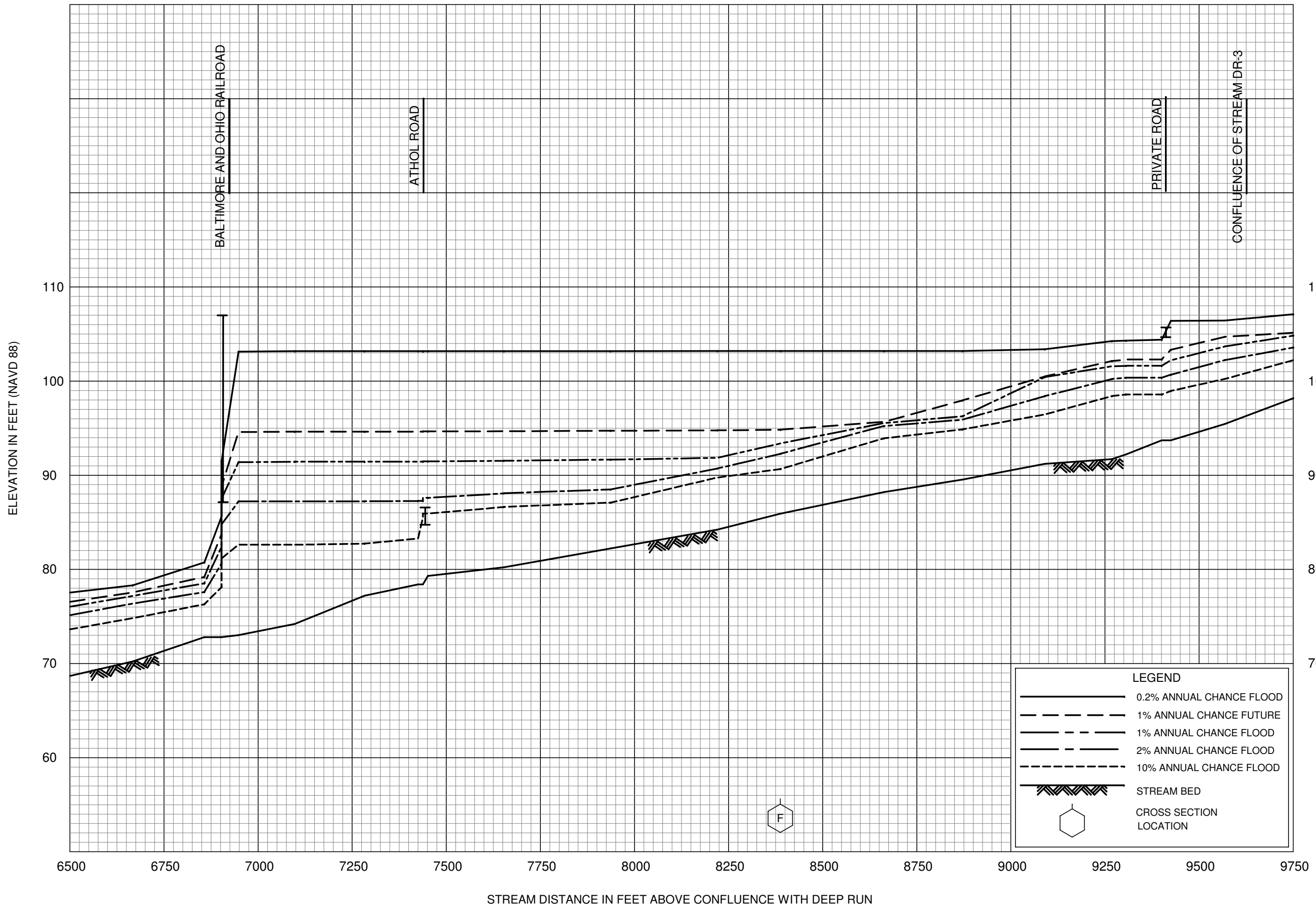


FLOOD PROFILES

STREAM DR-1

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



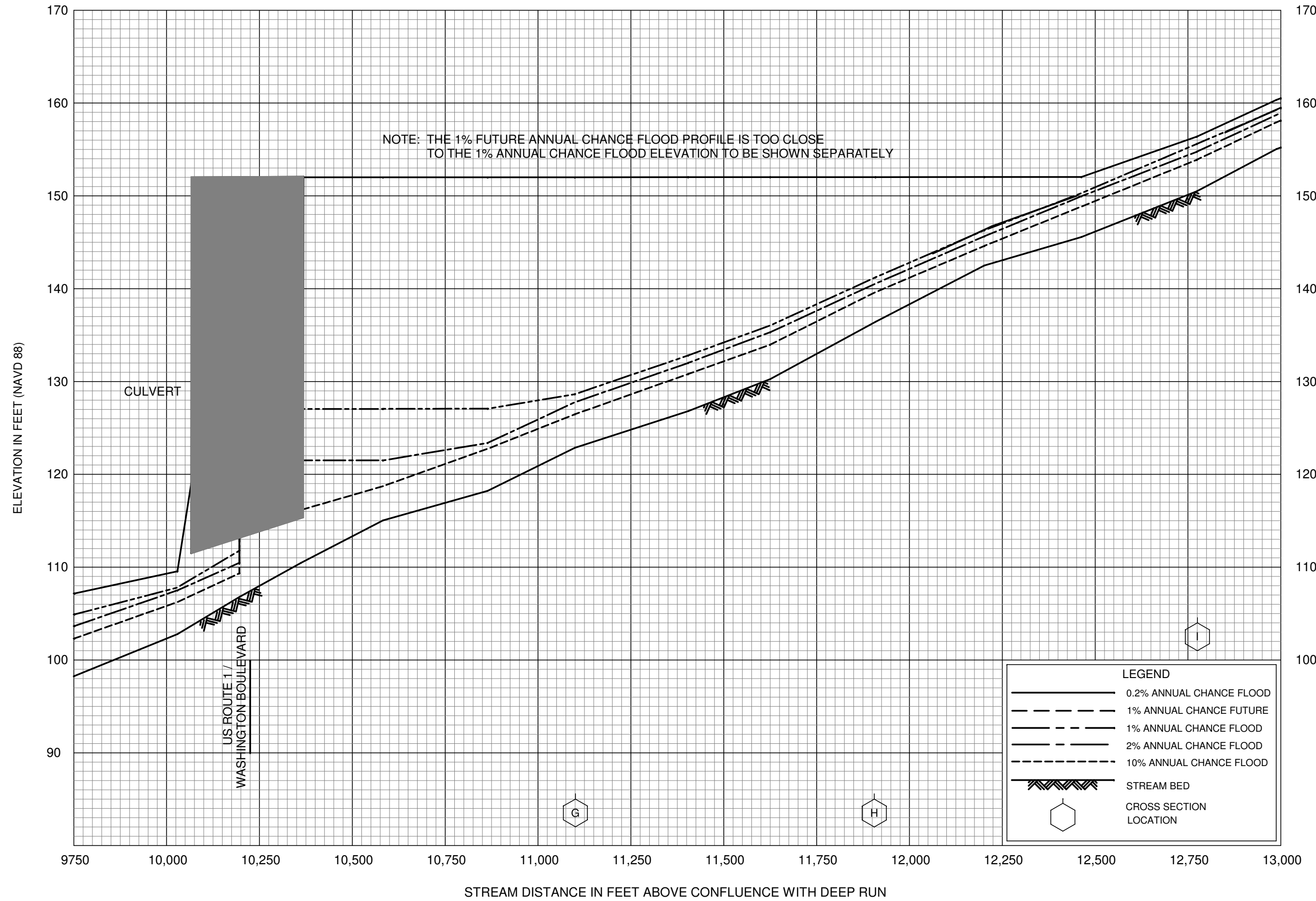
FLOOD PROFILES

STREAM DR-1

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

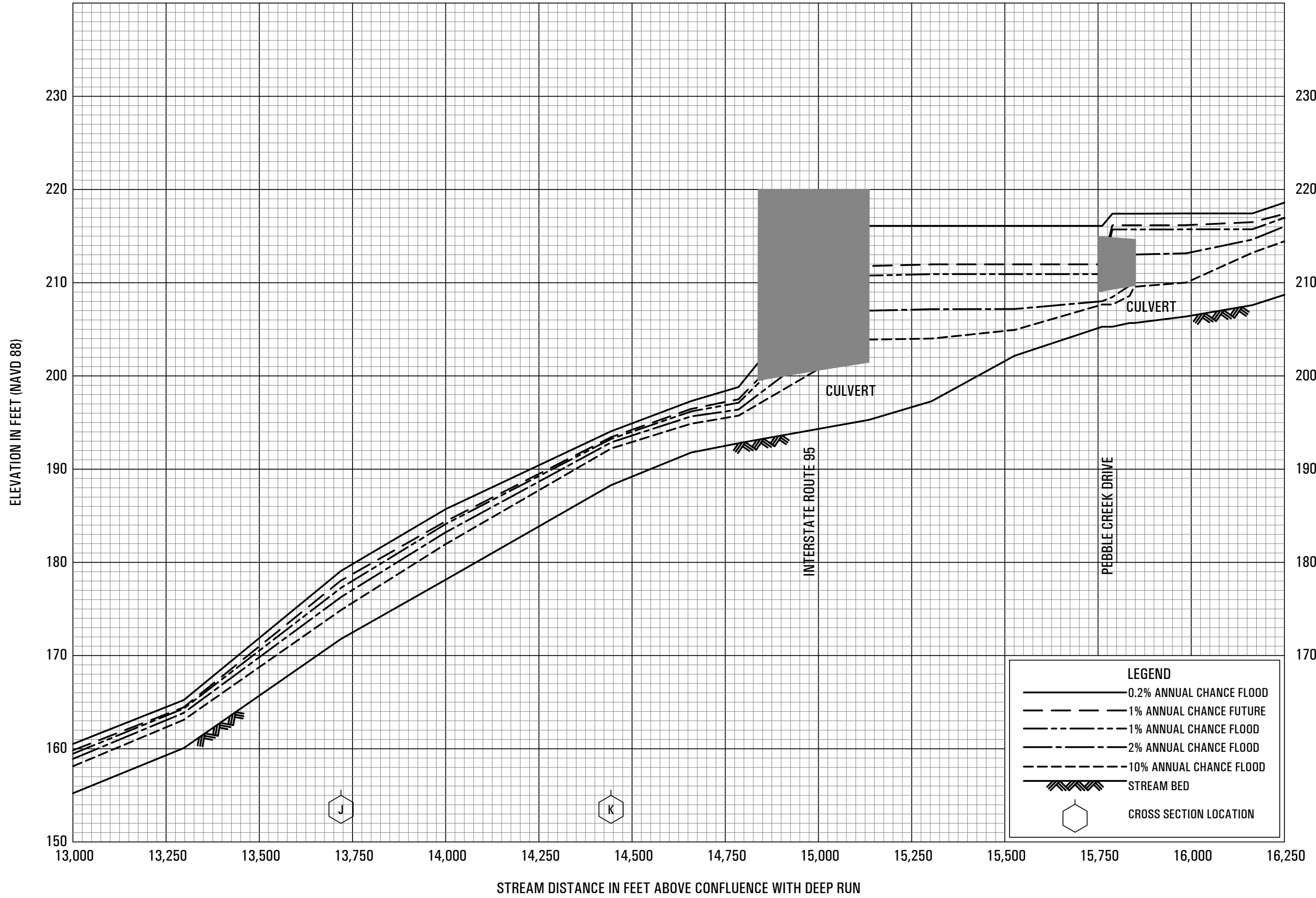
AND INCORPORATED AREAS



FLOOD PROFILES

STREAM DR-1

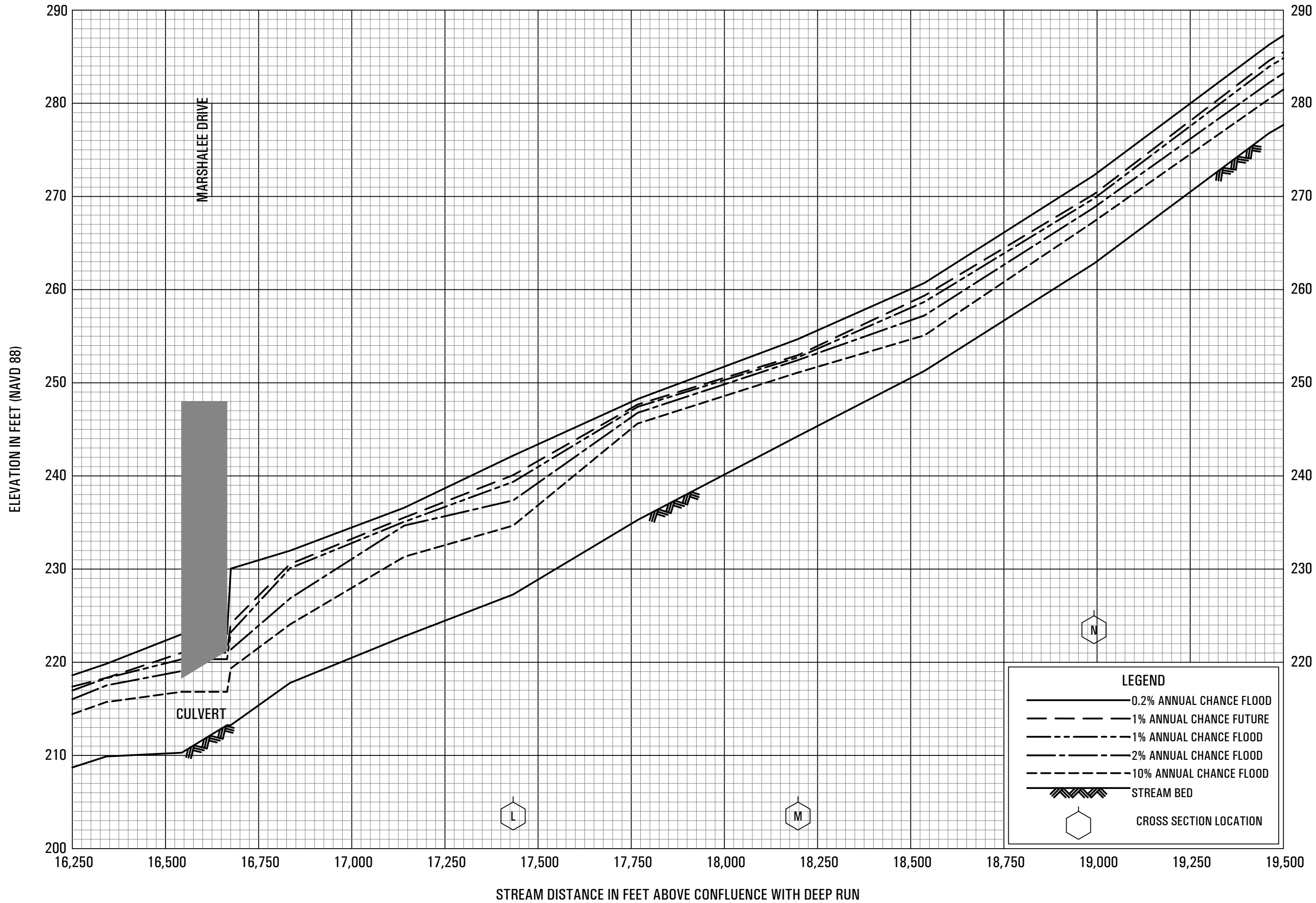
FEDERAL EMERGENCY MANAGEMENT AGENCY
 HOWARD COUNTY, MD
 AND INCORPORATED AREAS



FLOOD PROFILES

STREAM DR-1

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
 AND INCORPORATED AREAS

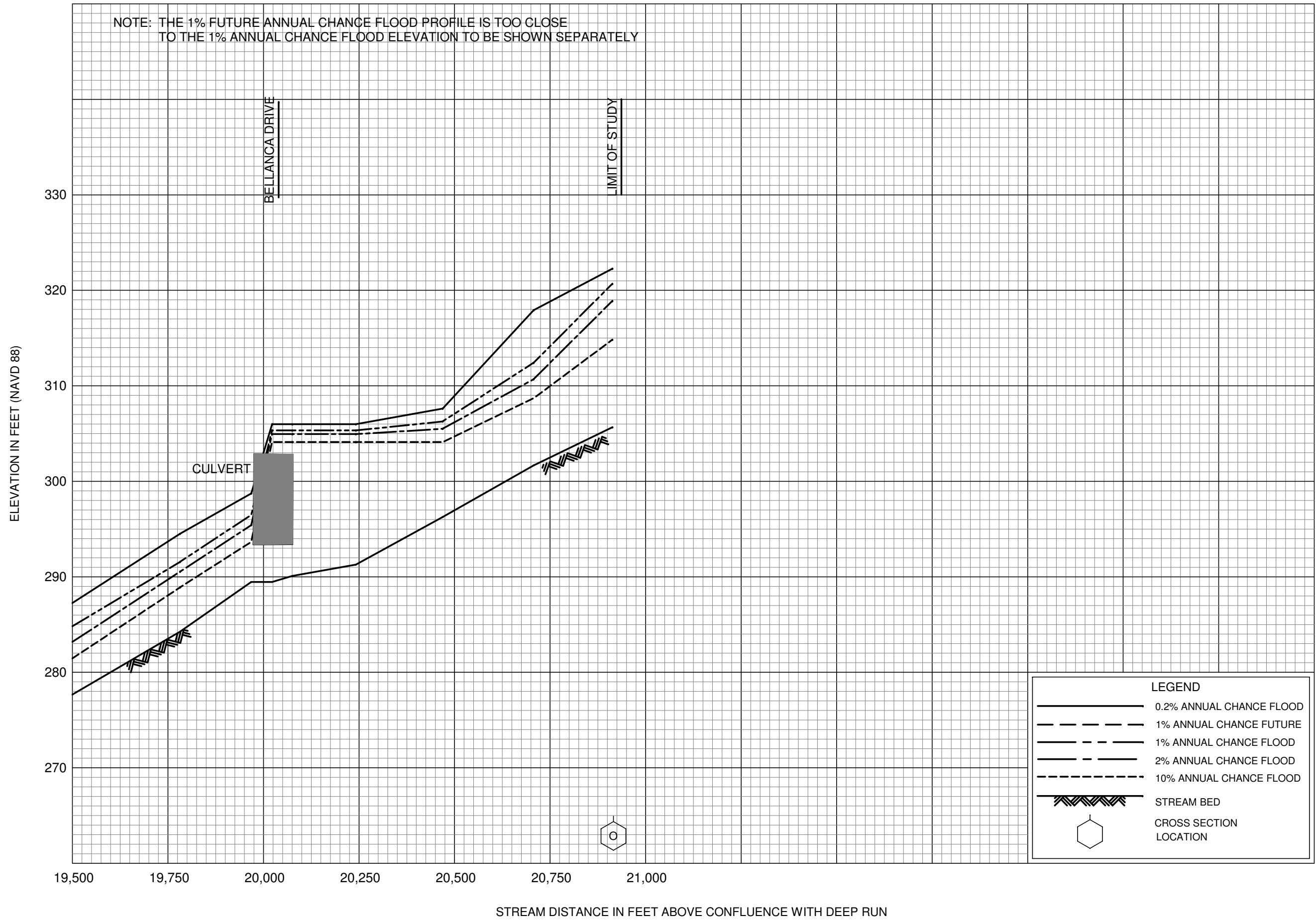


FLOOD PROFILES

STREAM DR-1

FEDERAL EMERGENCY MANAGEMENT AGENCY
 HOWARD COUNTY, MD
 AND INCORPORATED AREAS

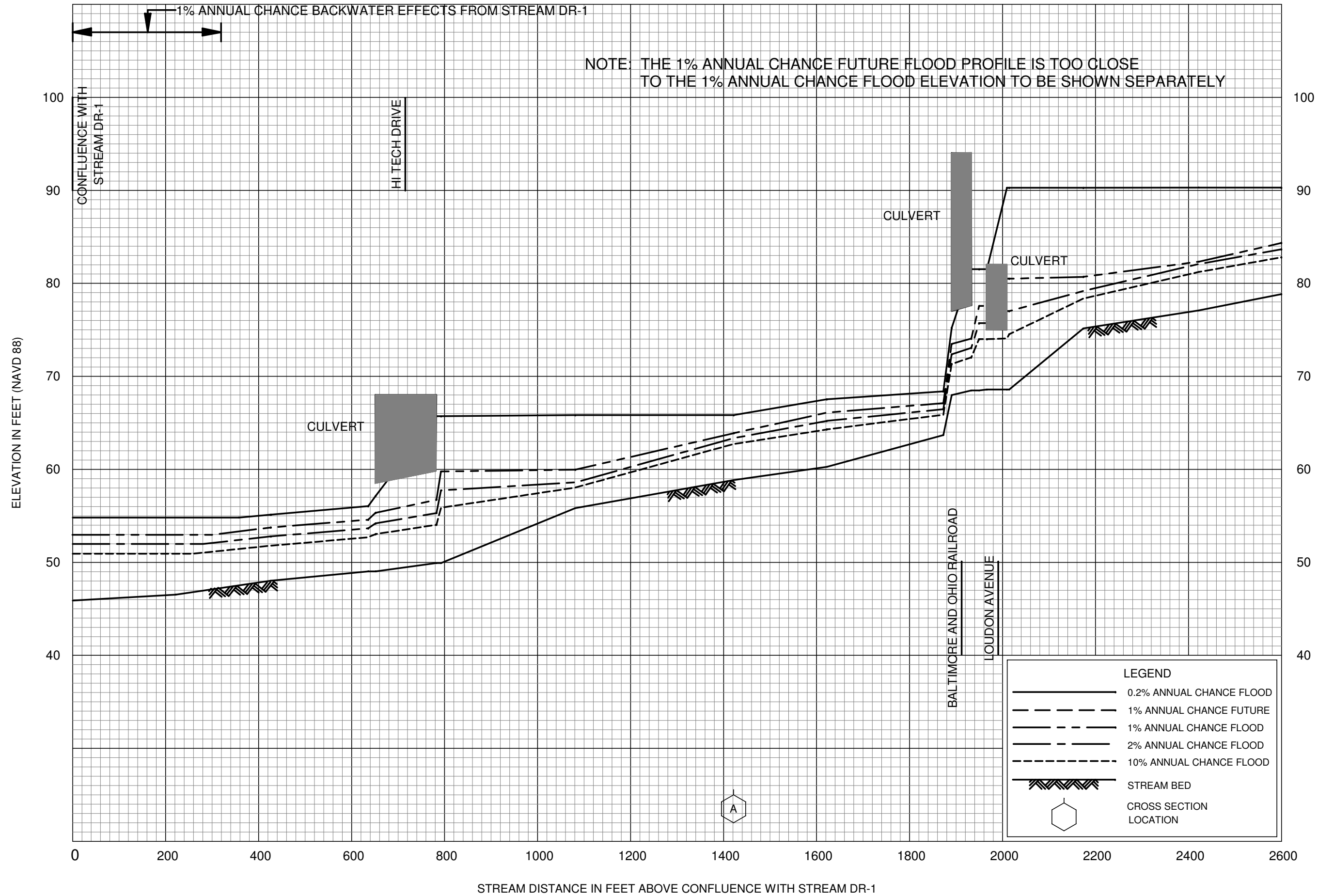
0179P



FLOOD PROFILES

STREAM DR-1

FEDERAL EMERGENCY MANAGEMENT AGENCY
 HOWARD COUNTY, MD
 AND INCORPORATED AREAS



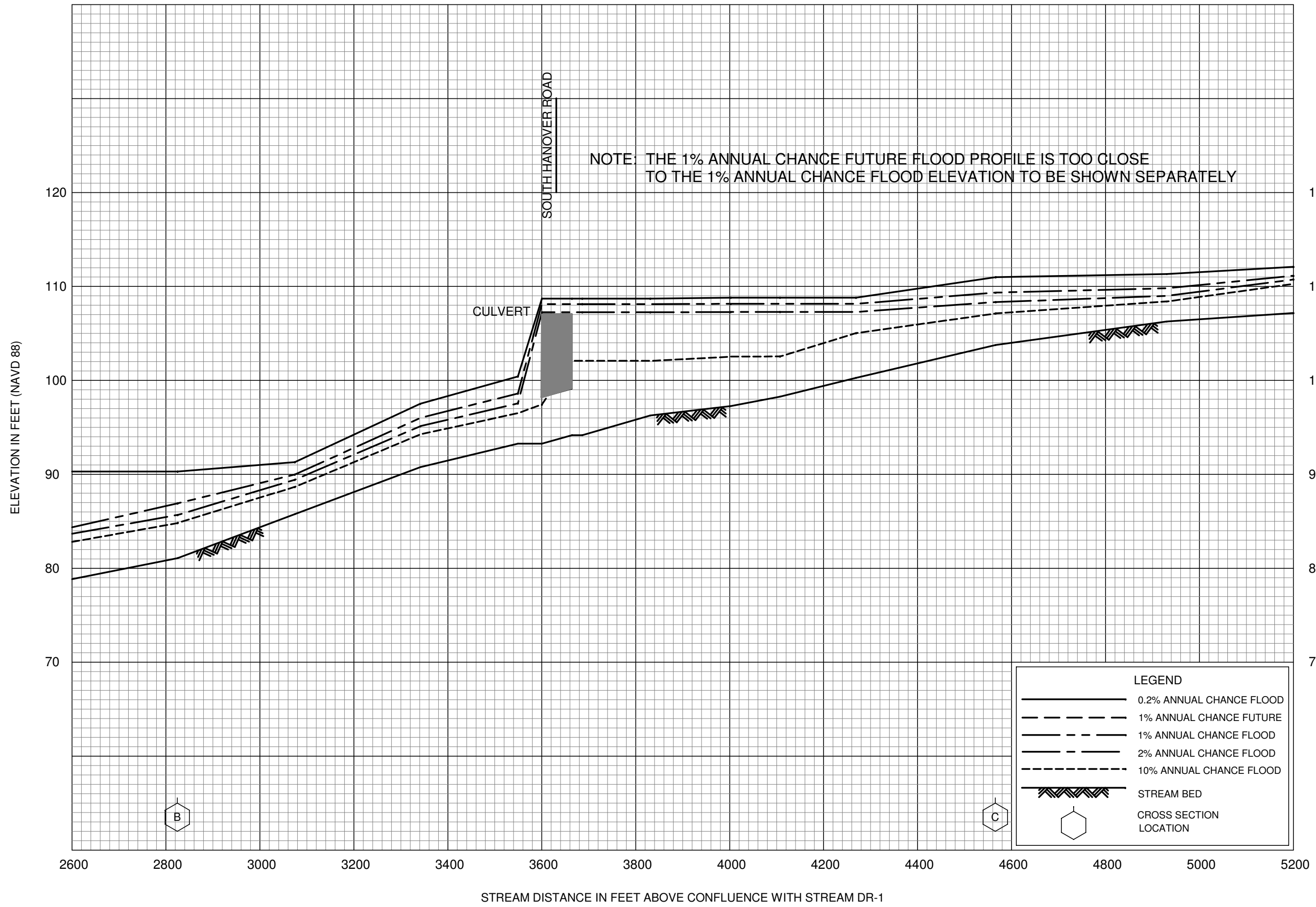
FLOOD PROFILES

STREAM DR-2

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS

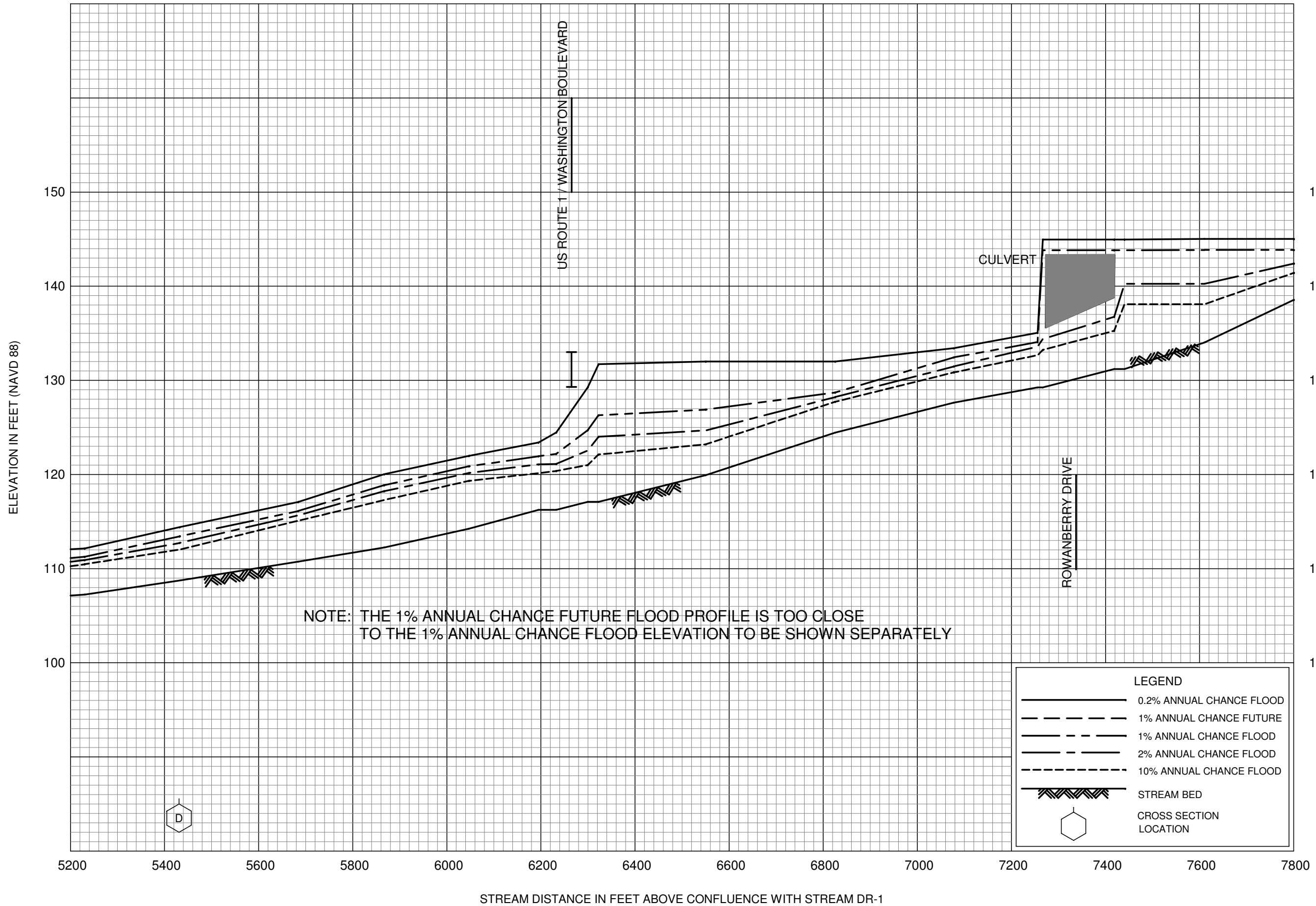


FLOOD PROFILES

STREAM DR-2

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS

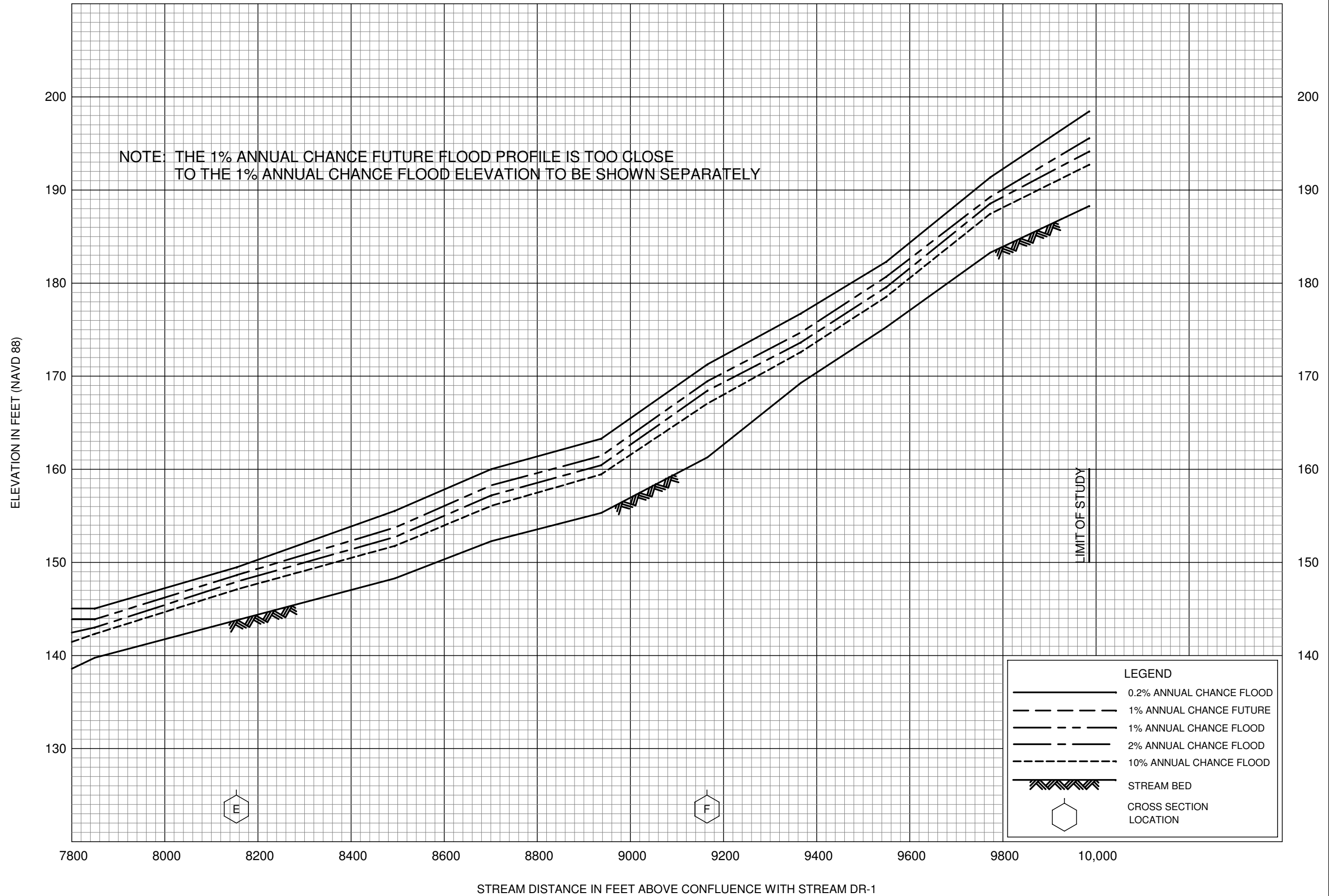


FLOOD PROFILES

STREAM DR-2

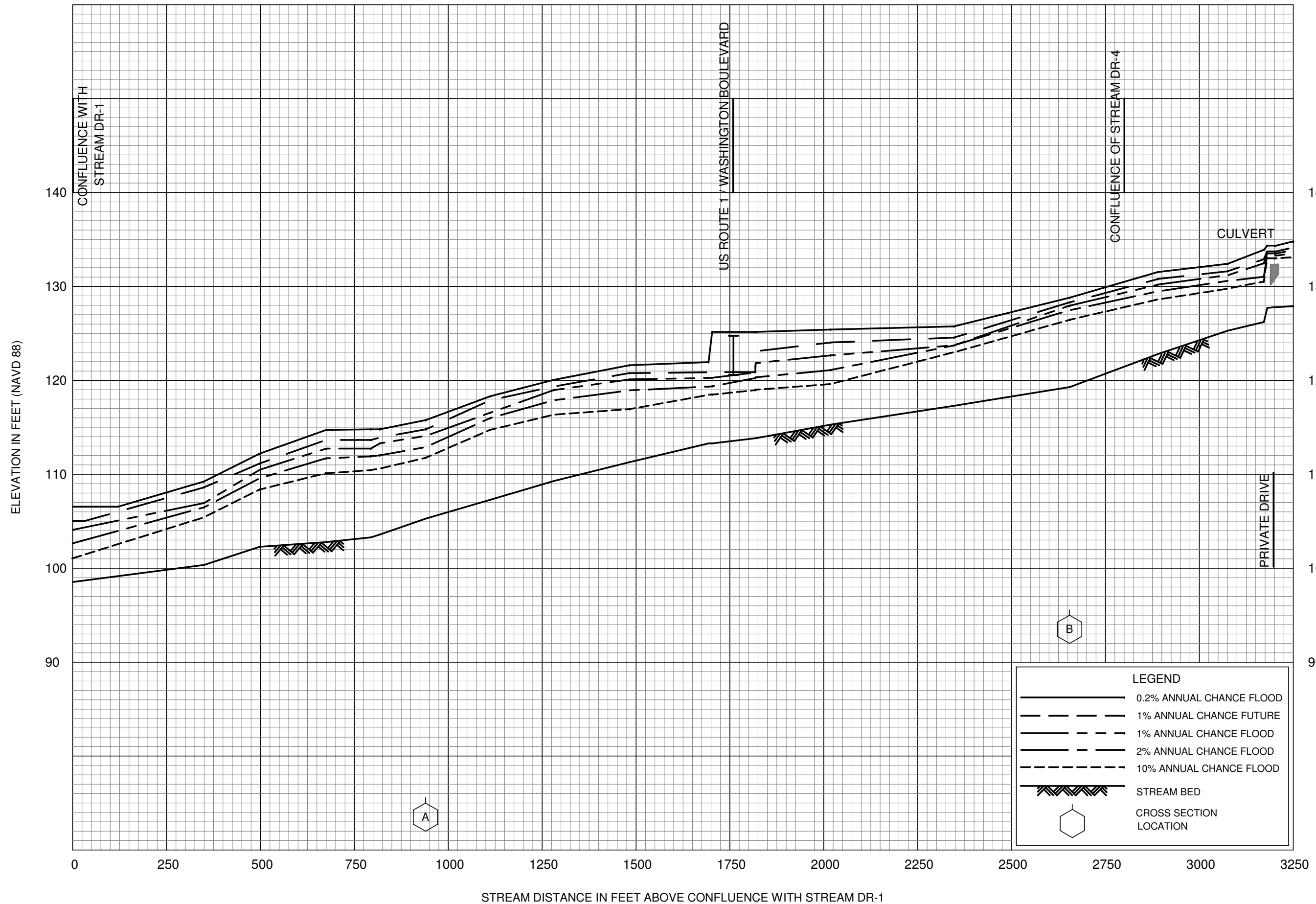
FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



FLOOD PROFILES
STREAM DR-2

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS

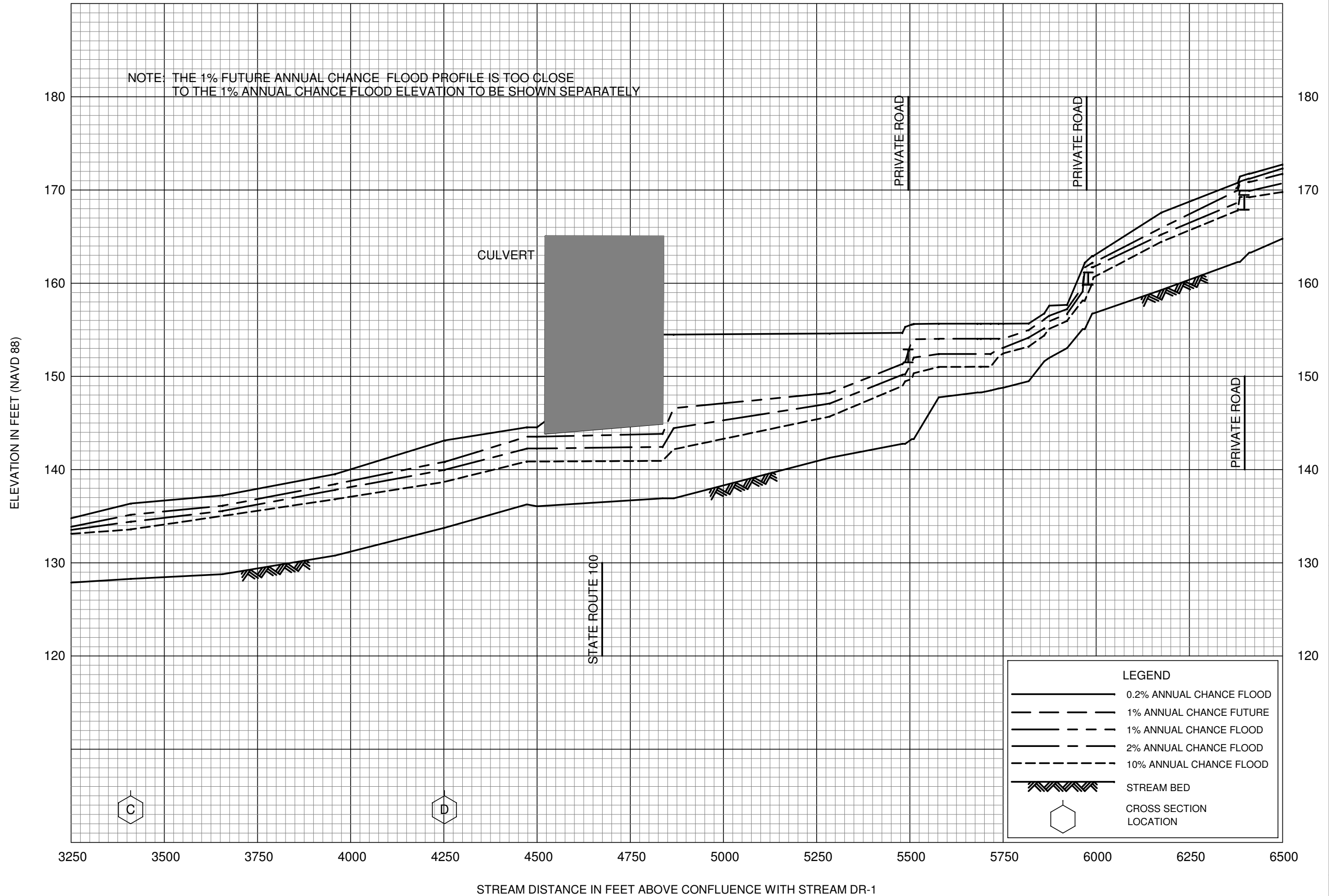


FLOOD PROFILES

STREAM DR-3

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS

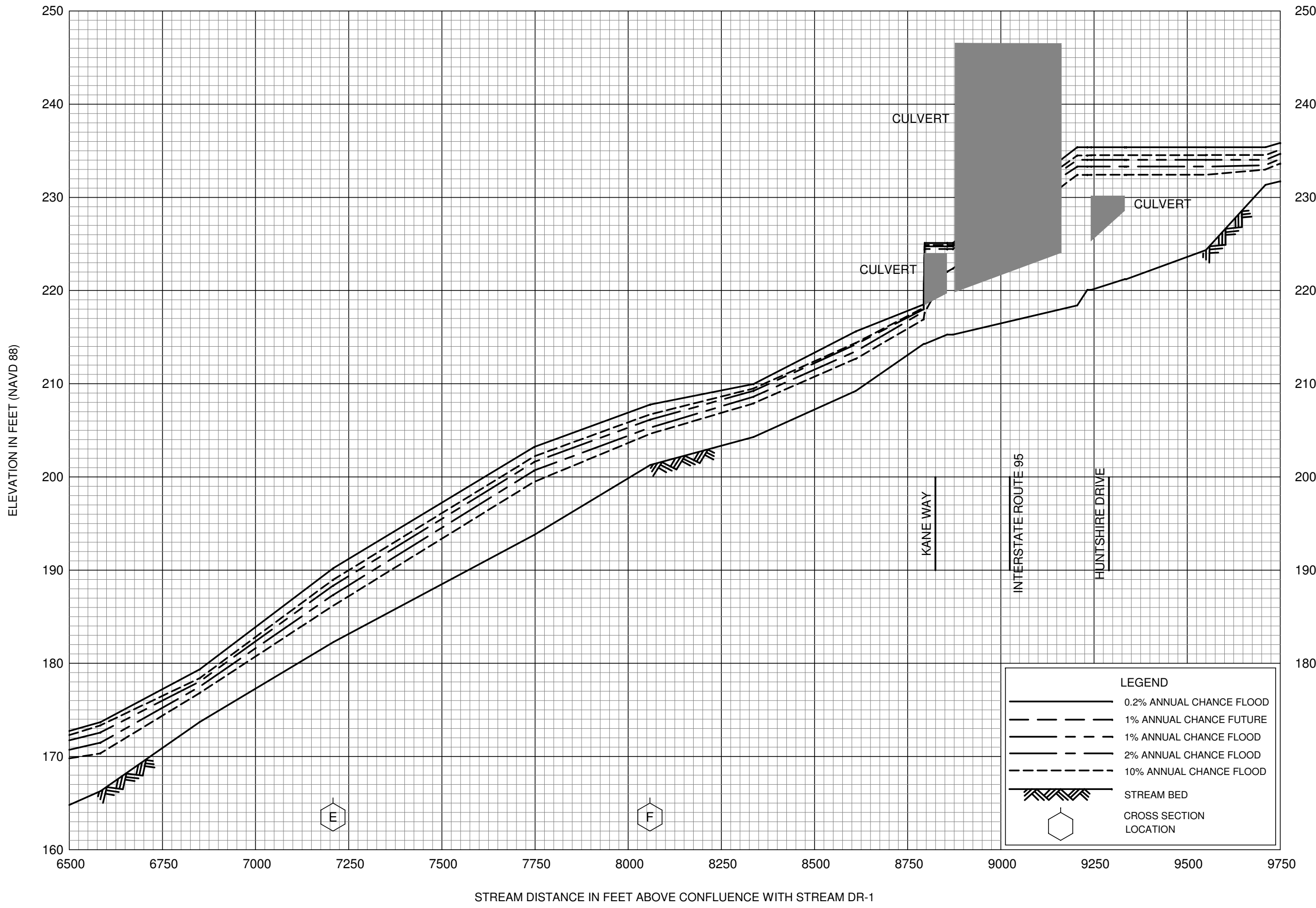


FLOOD PROFILES

STREAM DR-3

FEDERAL EMERGENCY MANAGEMENT AGENCY

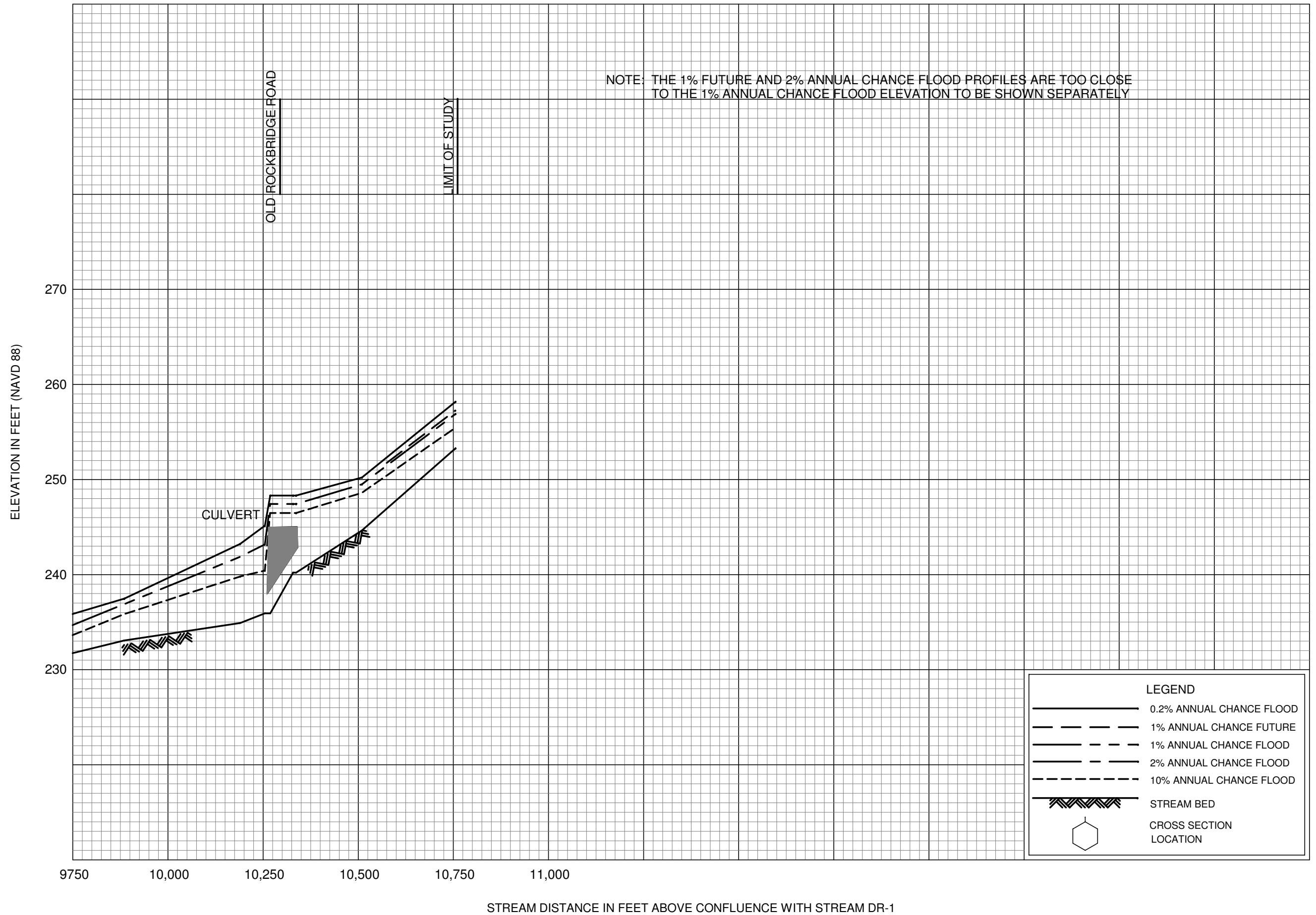
HOWARD COUNTY, MD
AND INCORPORATED AREAS



FLOOD PROFILES

STREAM DR-3

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
 AND INCORPORATED AREAS



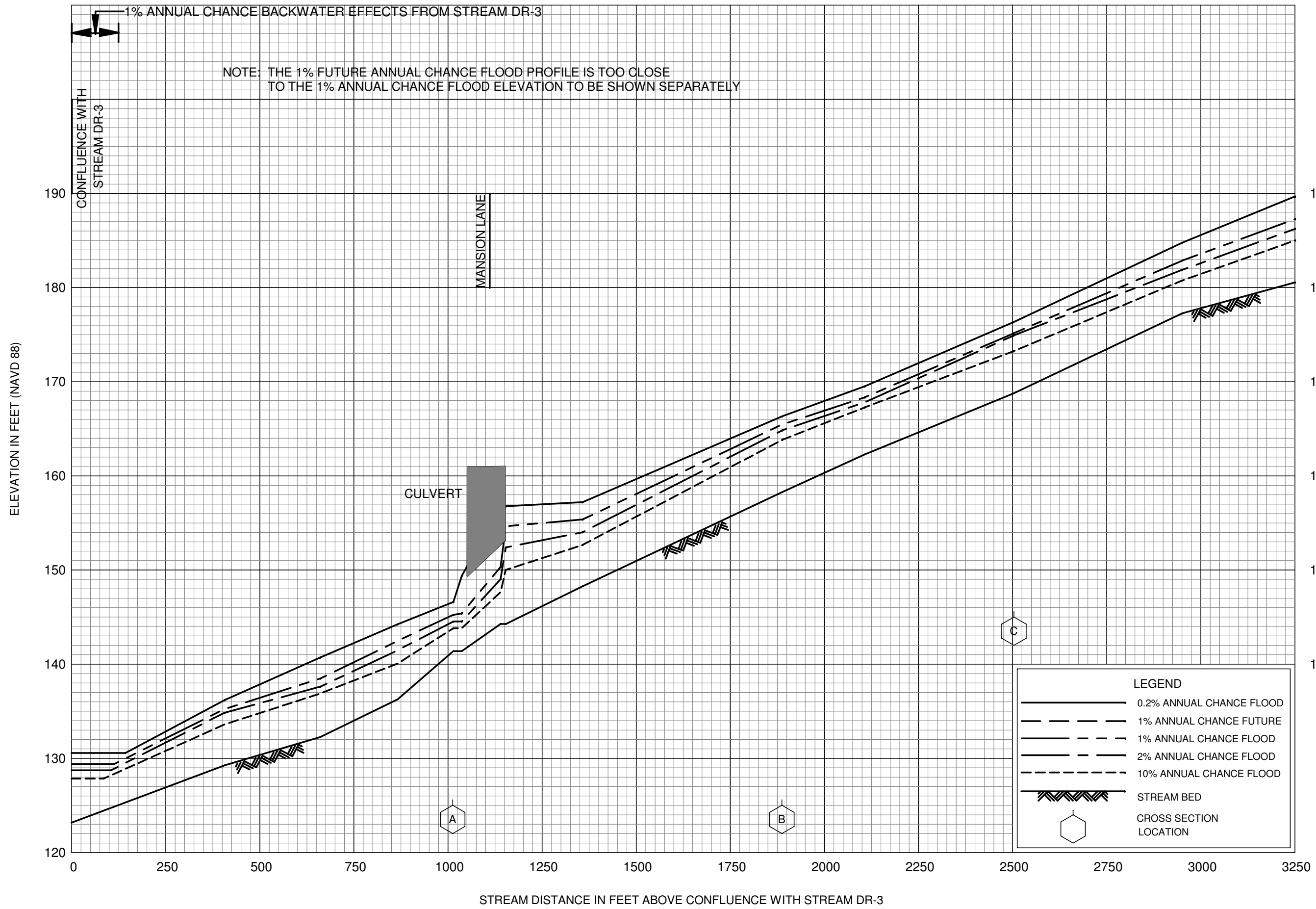
FLOOD PROFILES

STREAM DR-3

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS

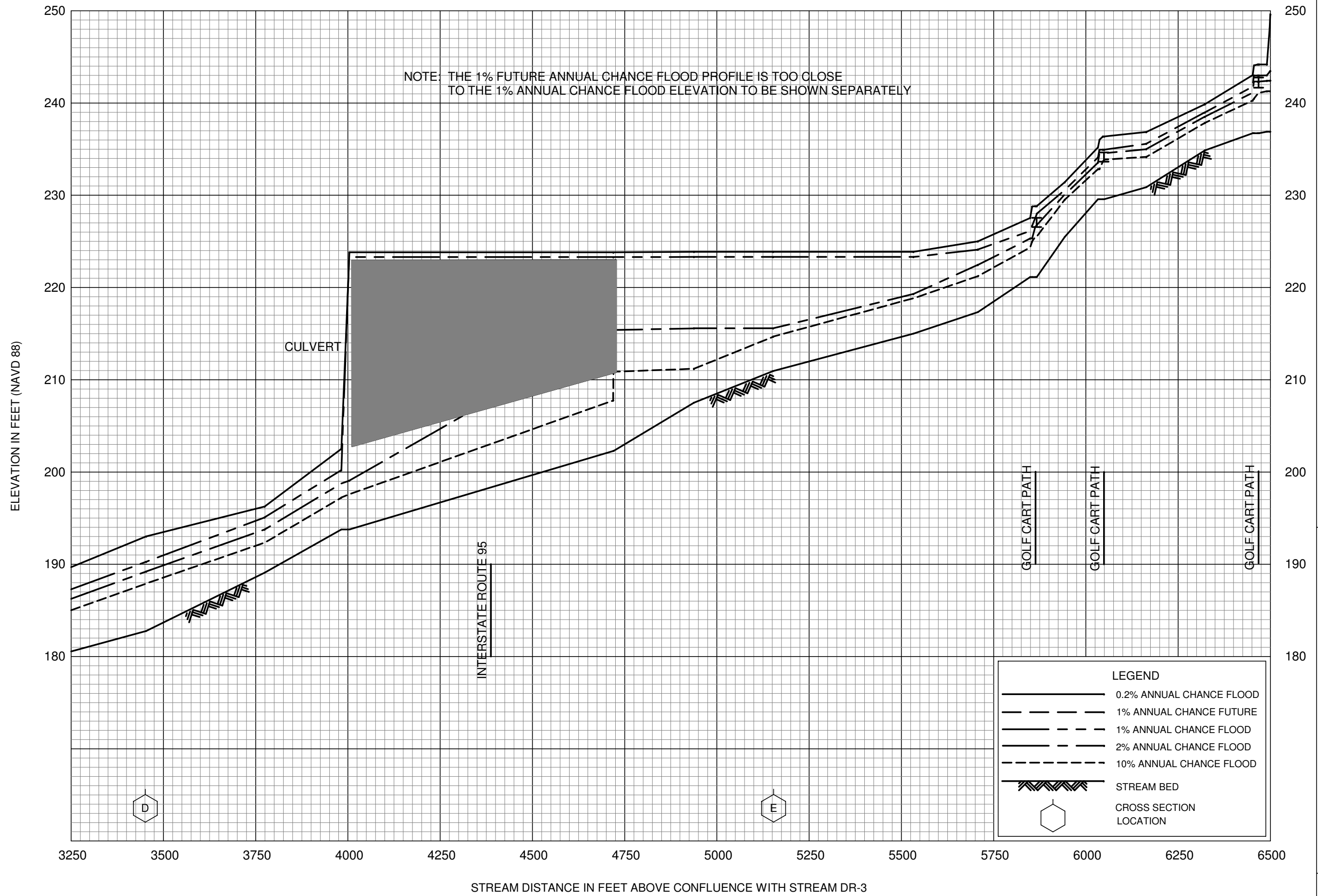


FLOOD PROFILES

STREAM DR-4

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS

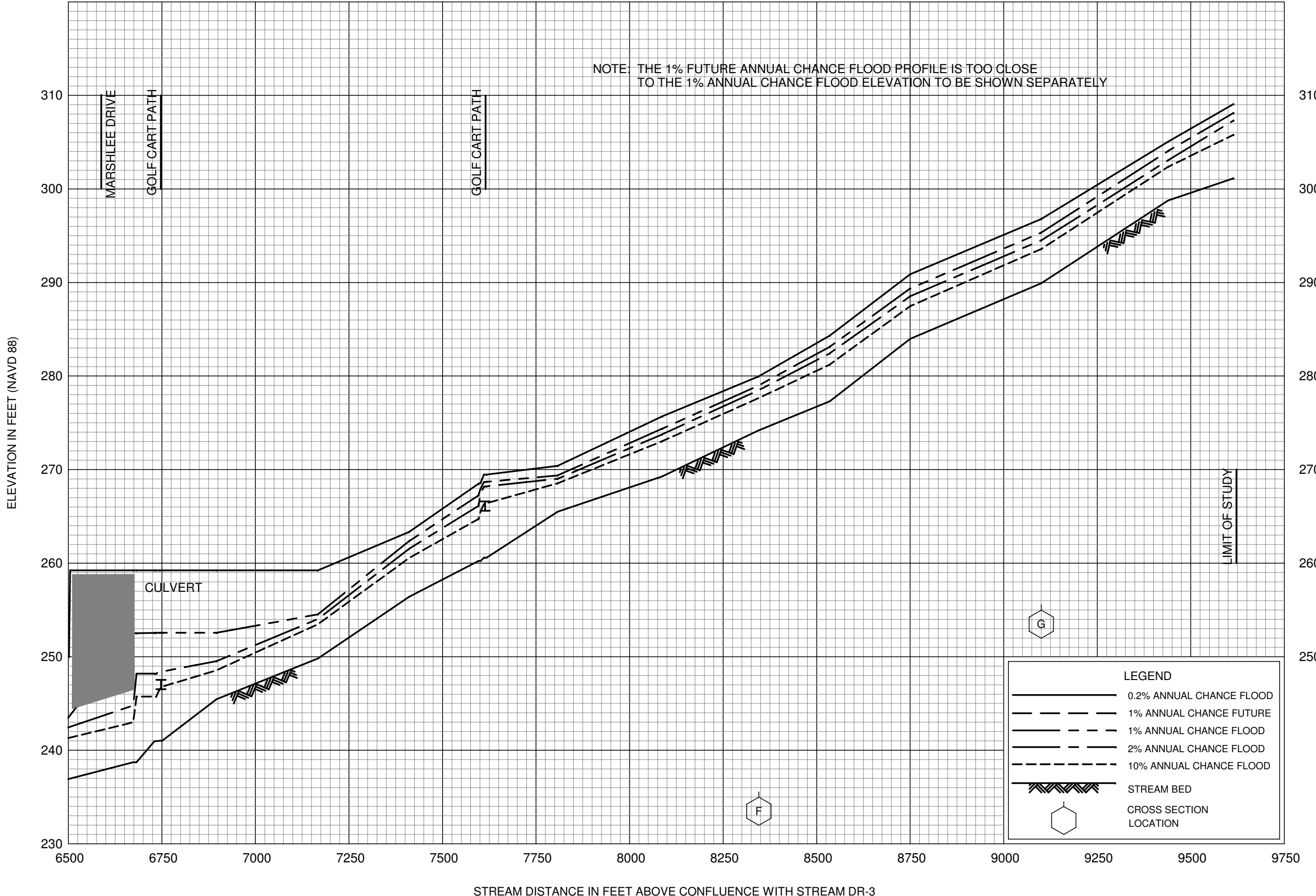


LEGEND	
	0.2% ANNUAL CHANGE FLOOD
	1% ANNUAL CHANGE FUTURE
	1% ANNUAL CHANGE FLOOD
	2% ANNUAL CHANGE FLOOD
	10% ANNUAL CHANGE FLOOD
	STREAM BED
	CROSS SECTION LOCATION

FLOOD PROFILES

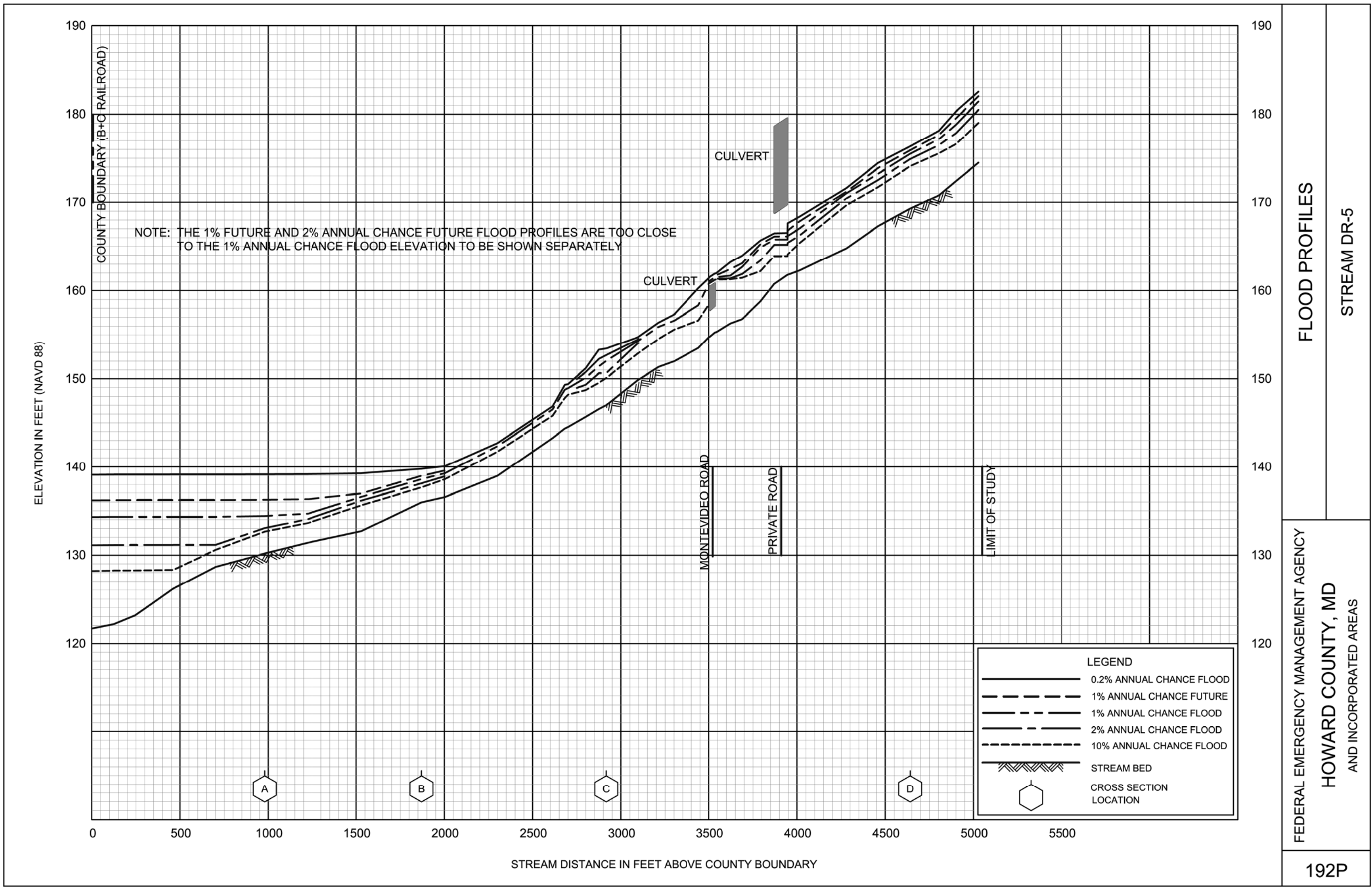
STREAM DR-4

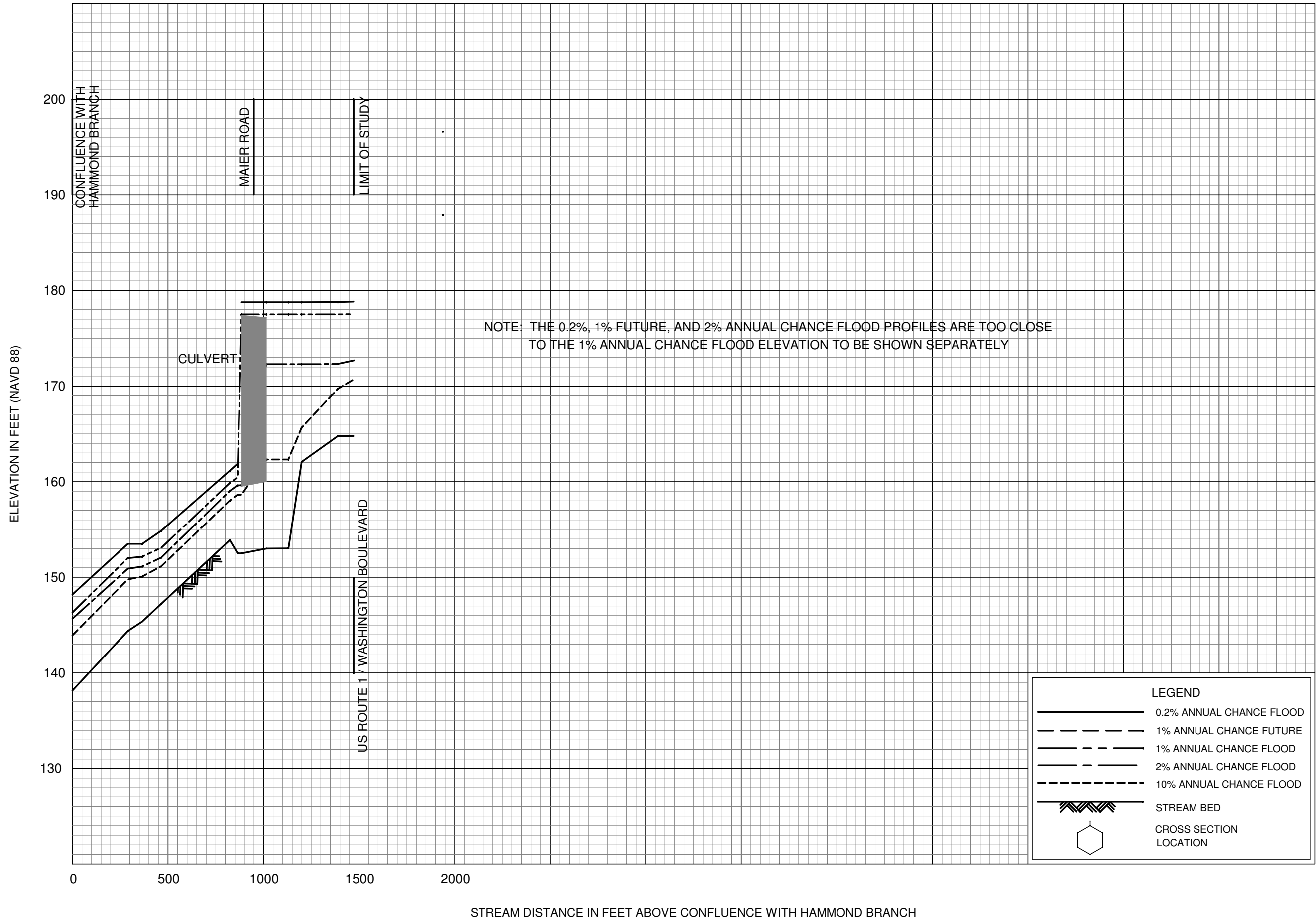
FEDERAL EMERGENCY MANAGEMENT AGENCY
 HOWARD COUNTY, MD
 AND INCORPORATED AREAS



FLOOD PROFILES
STREAM DR-4

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS





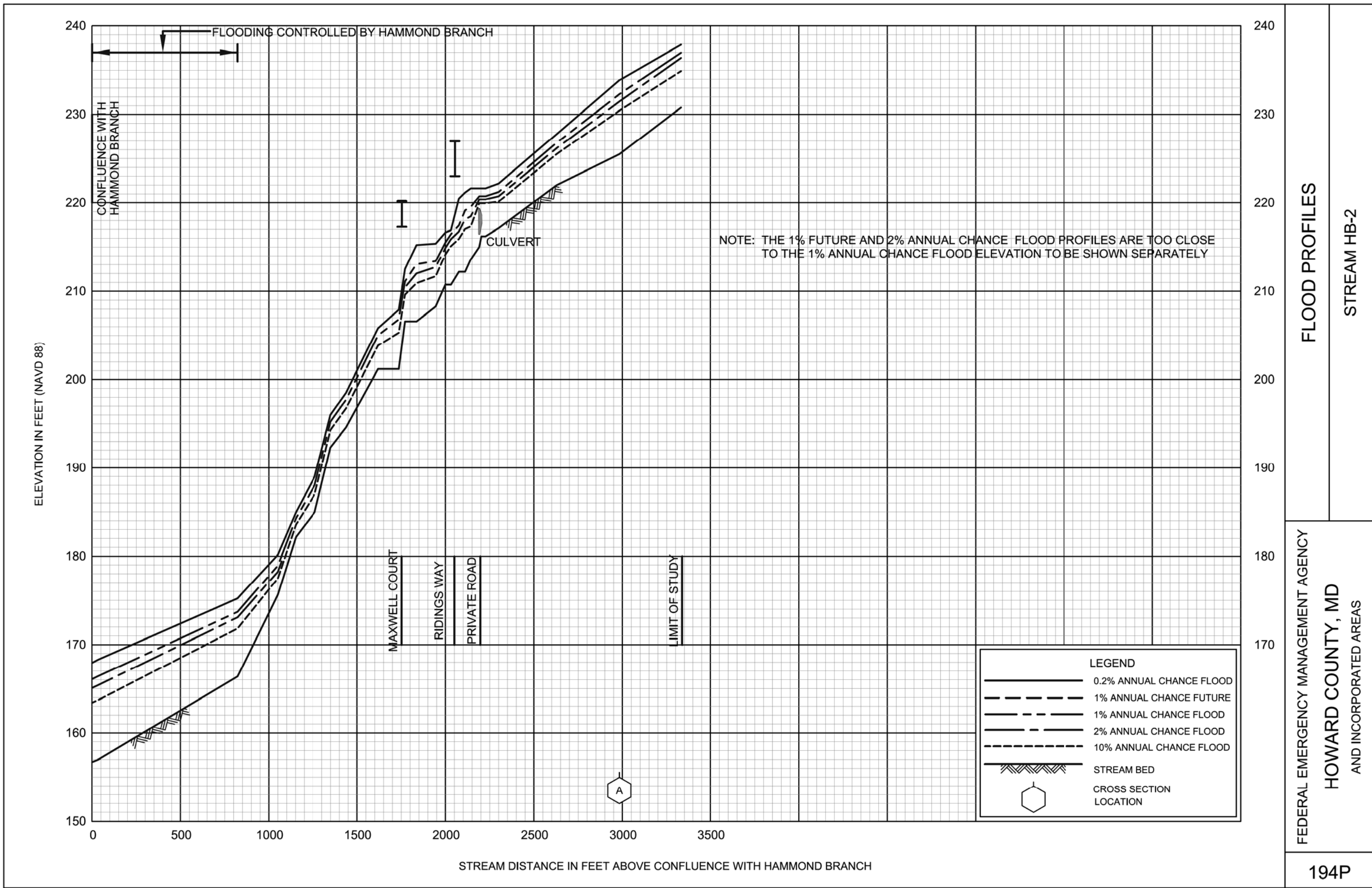
FLOOD PROFILES

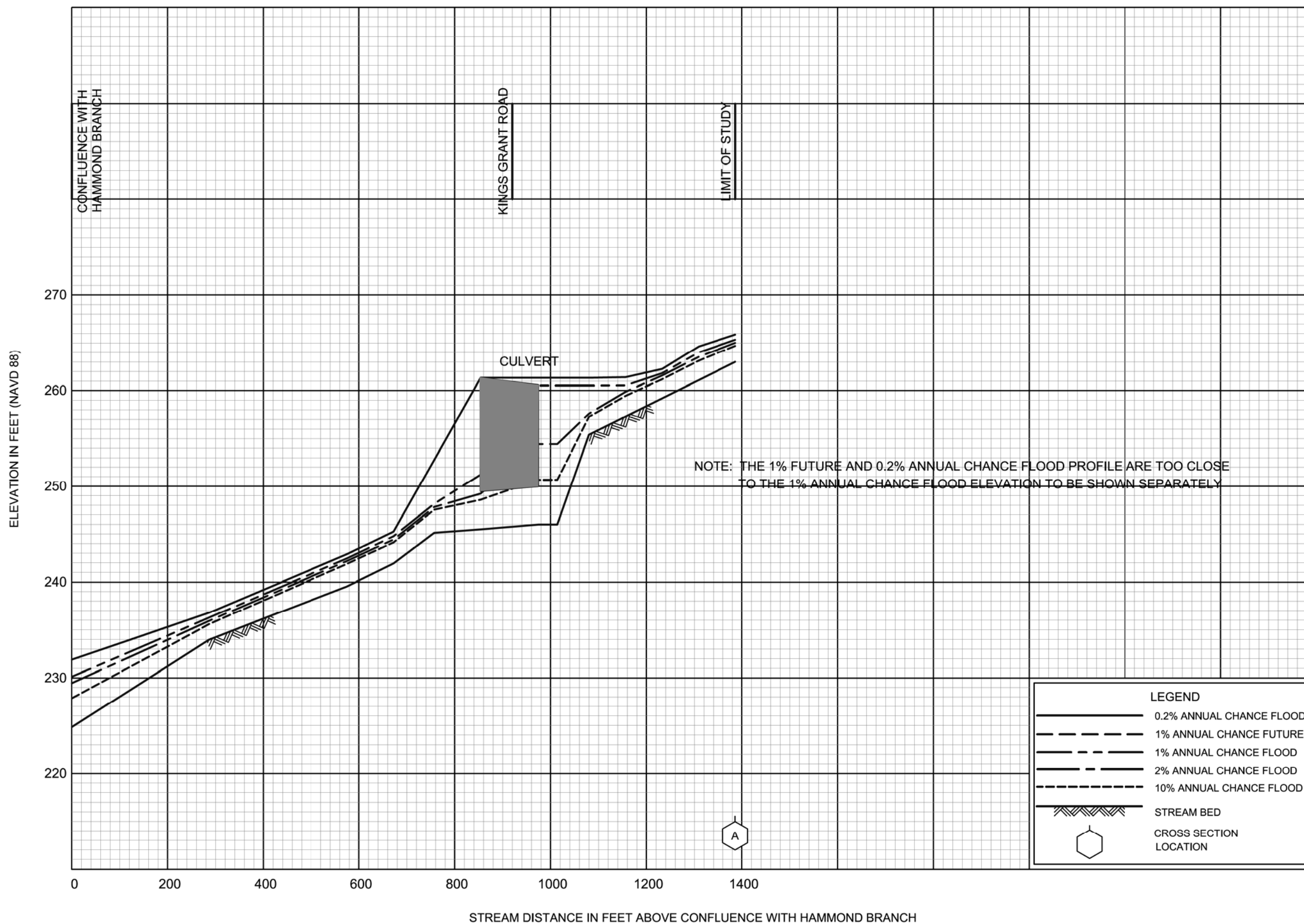
STREAM HB-1

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS



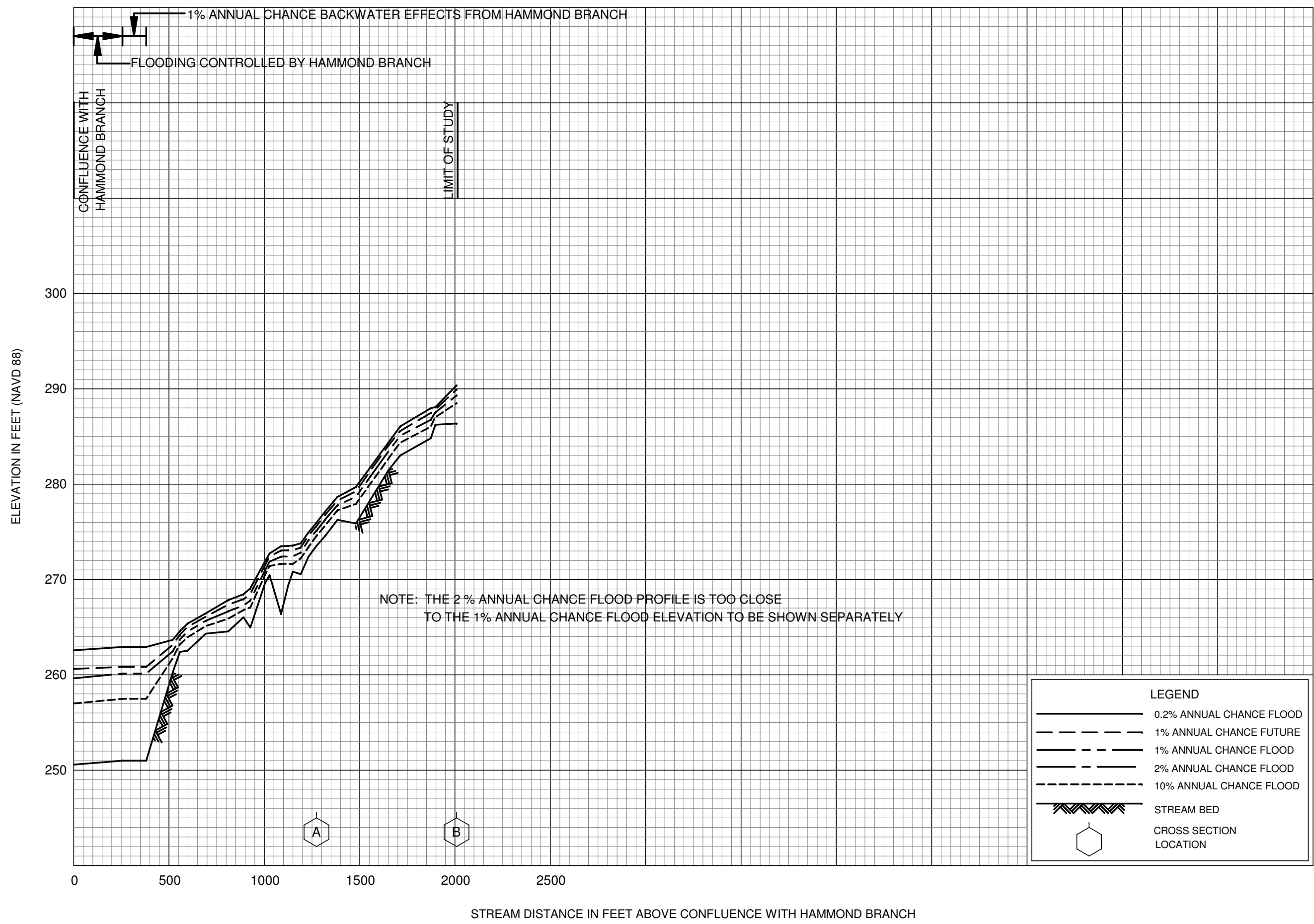


LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FUTURE
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD
	10% ANNUAL CHANCE FLOOD
	STREAM BED
	CROSS SECTION LOCATION

FLOOD PROFILES

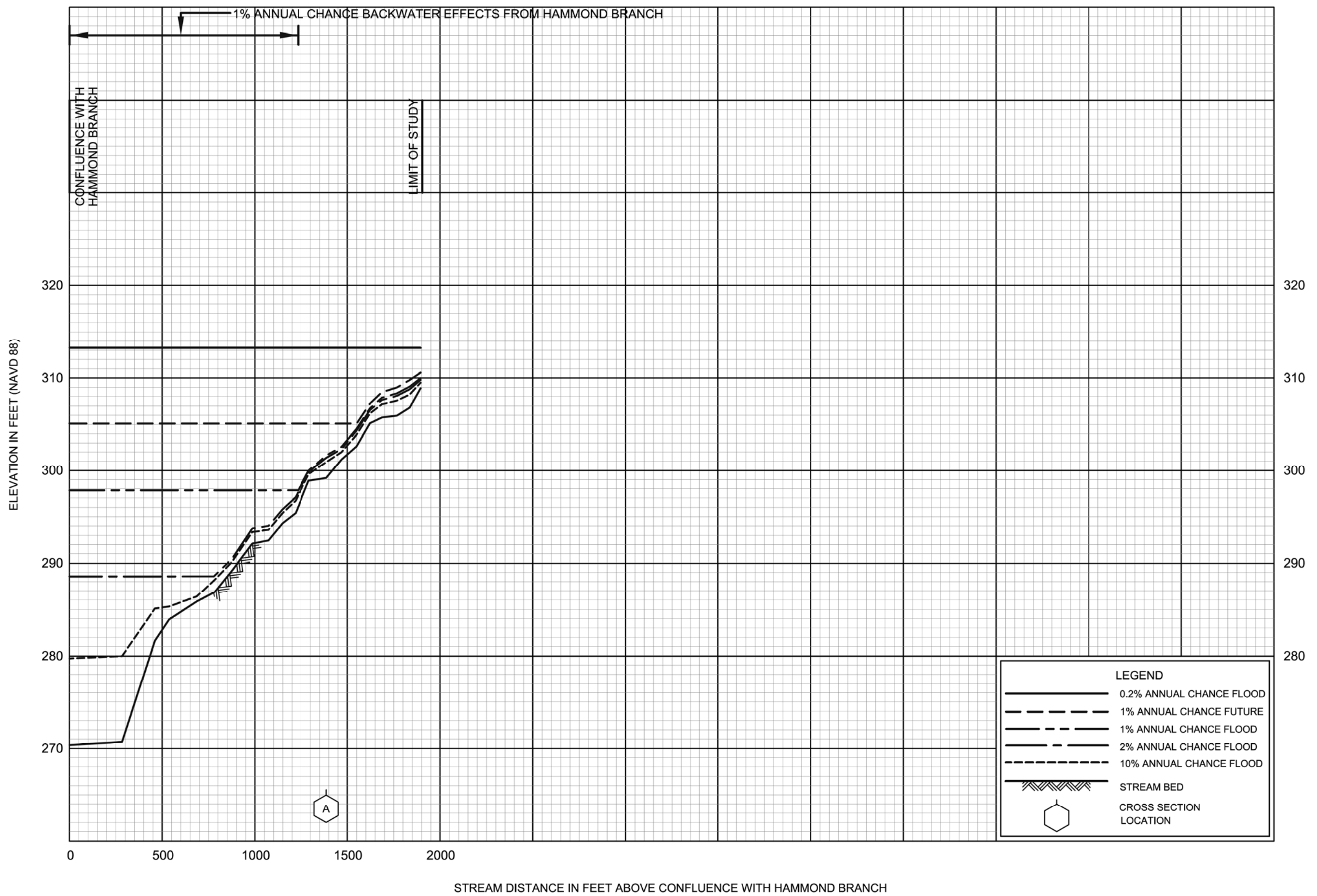
STREAM HB-3

FEDERAL EMERGENCY MANAGEMENT AGENCY
 HOWARD COUNTY, MD
 AND INCORPORATED AREAS



FLOOD PROFILES
STREAM HB-4

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS

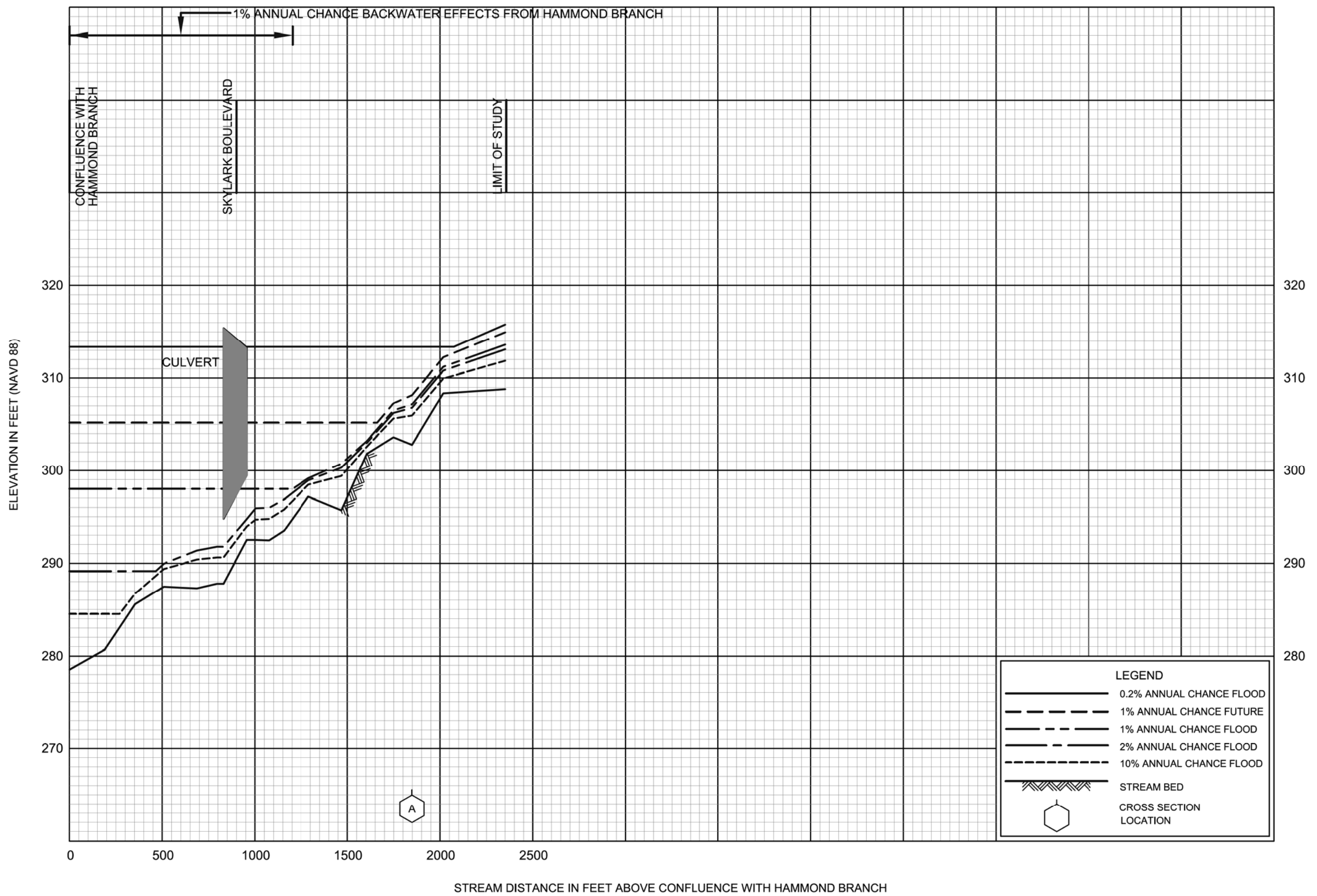


FLOOD PROFILES

STREAM HB-5

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS

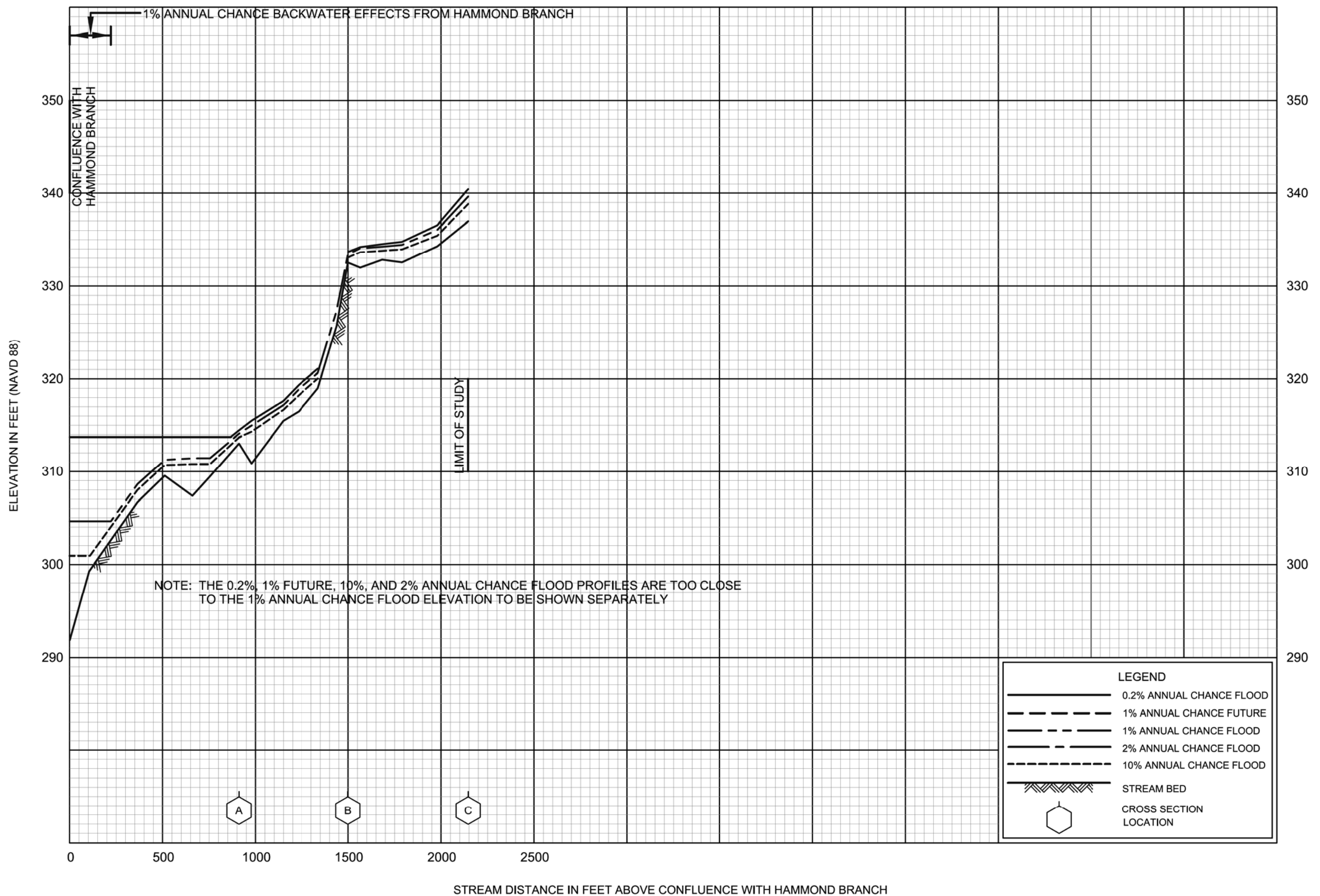


FLOOD PROFILES

STREAM HB-6

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS

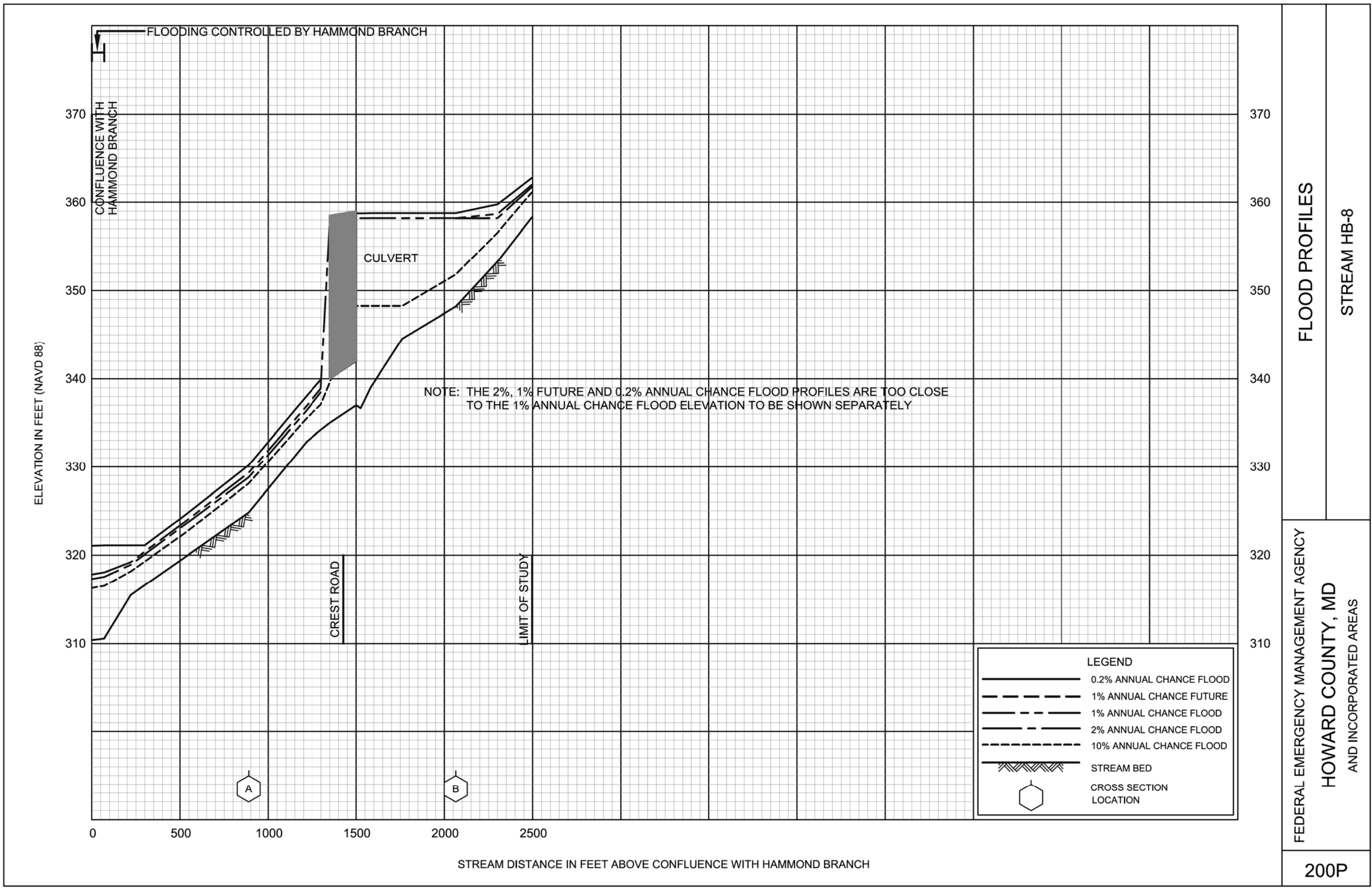


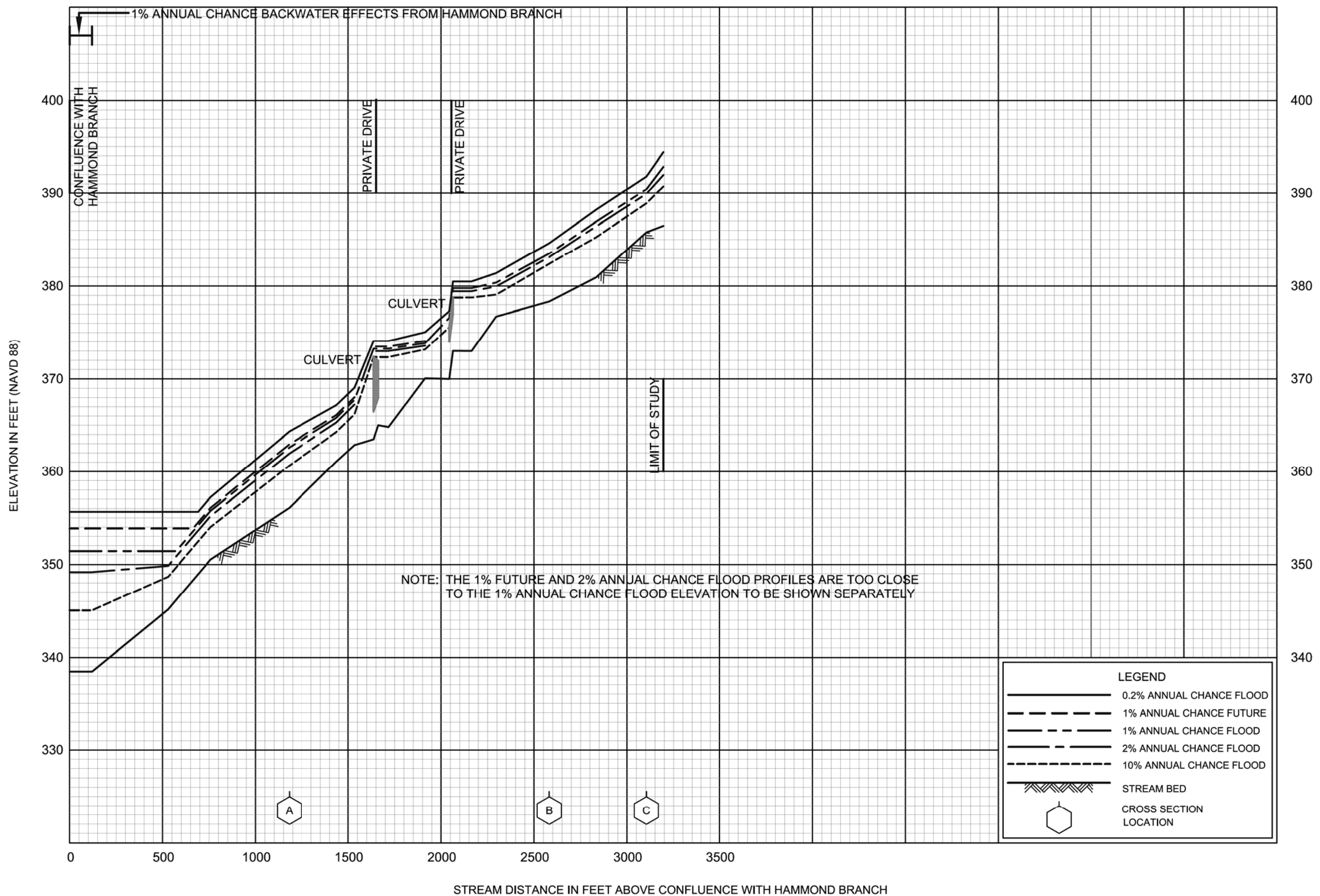
FLOOD PROFILES

STREAM HB-7

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



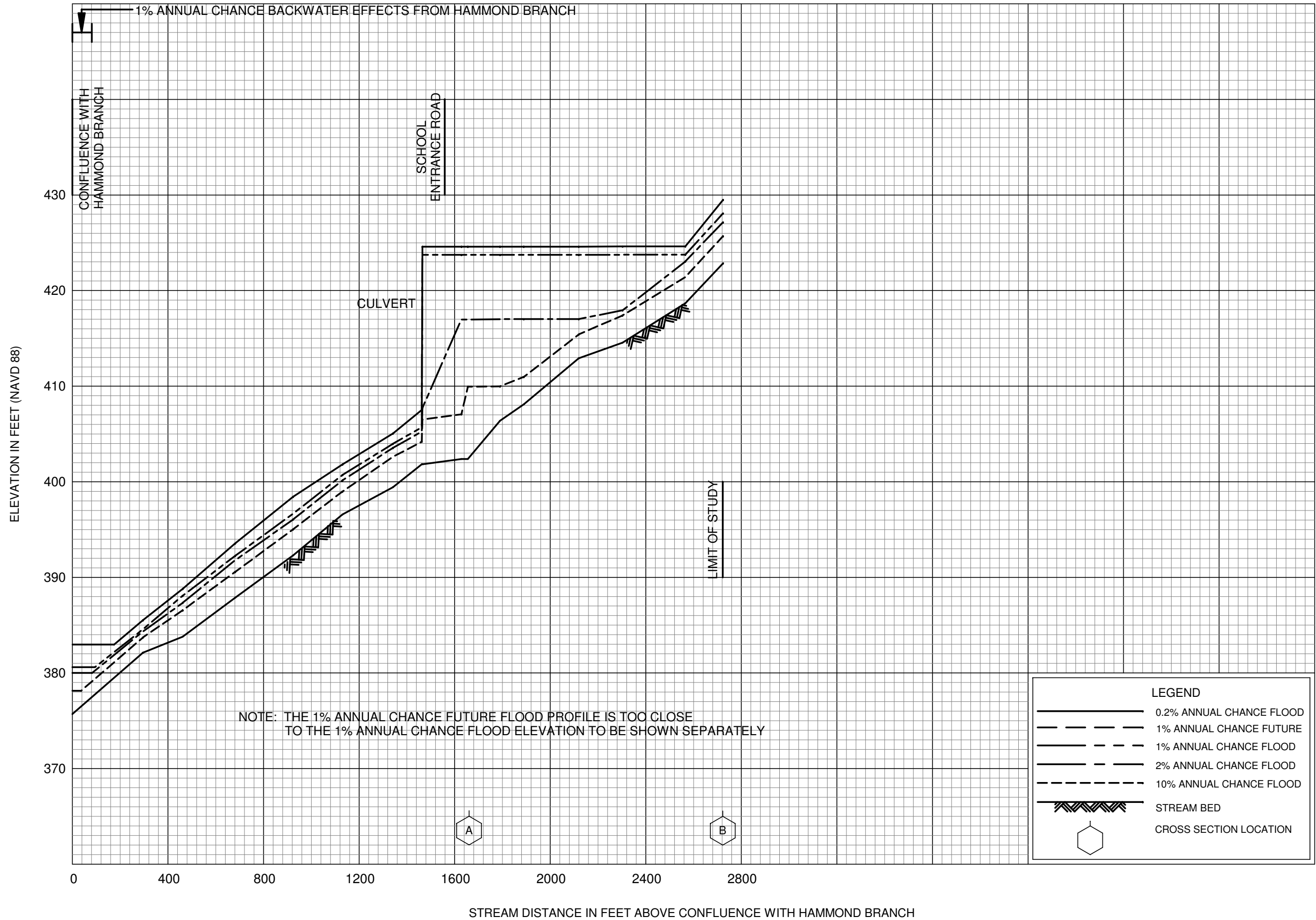


FLOOD PROFILES

STREAM HB-9

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



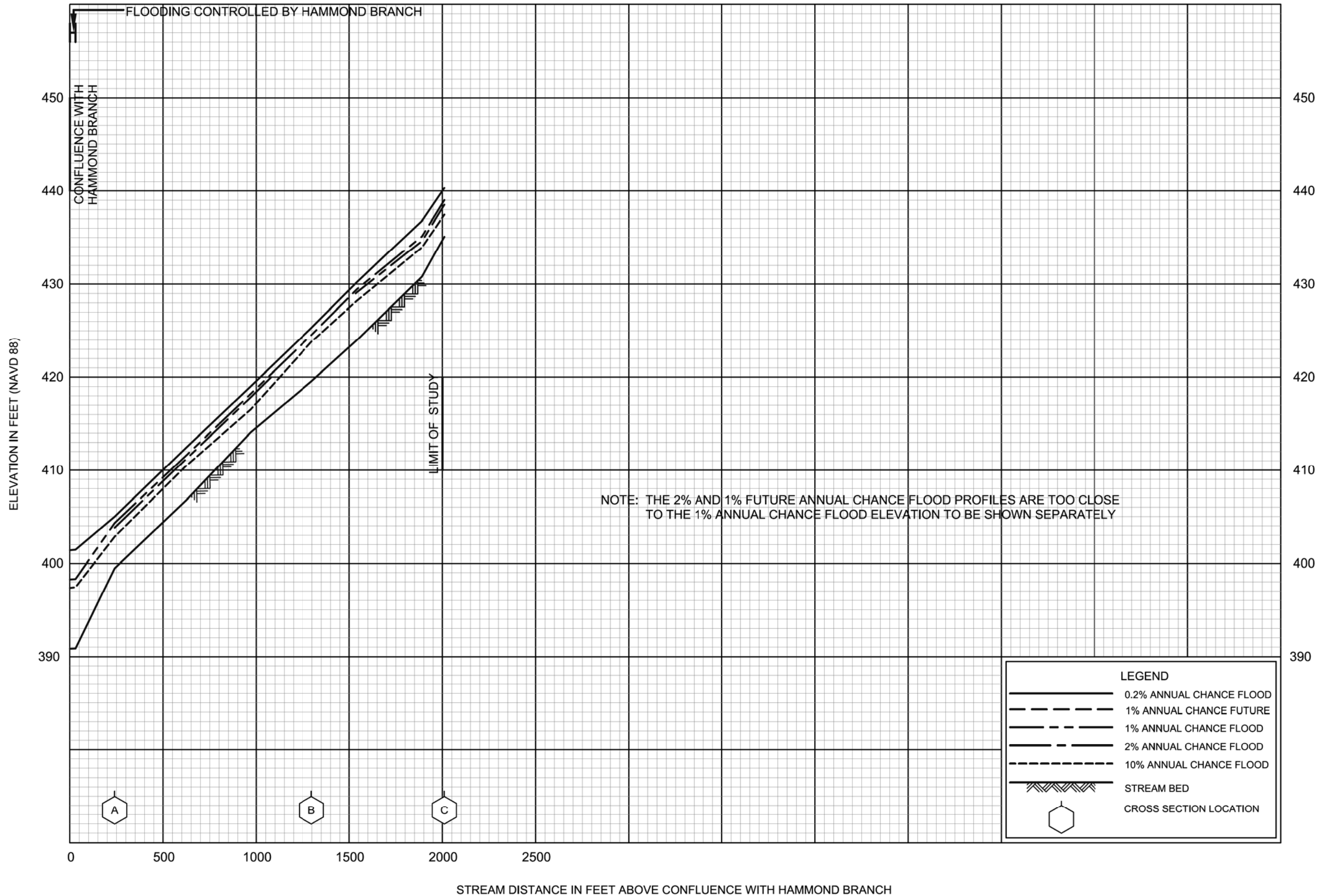
FLOOD PROFILES

STREAM HB-10

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS

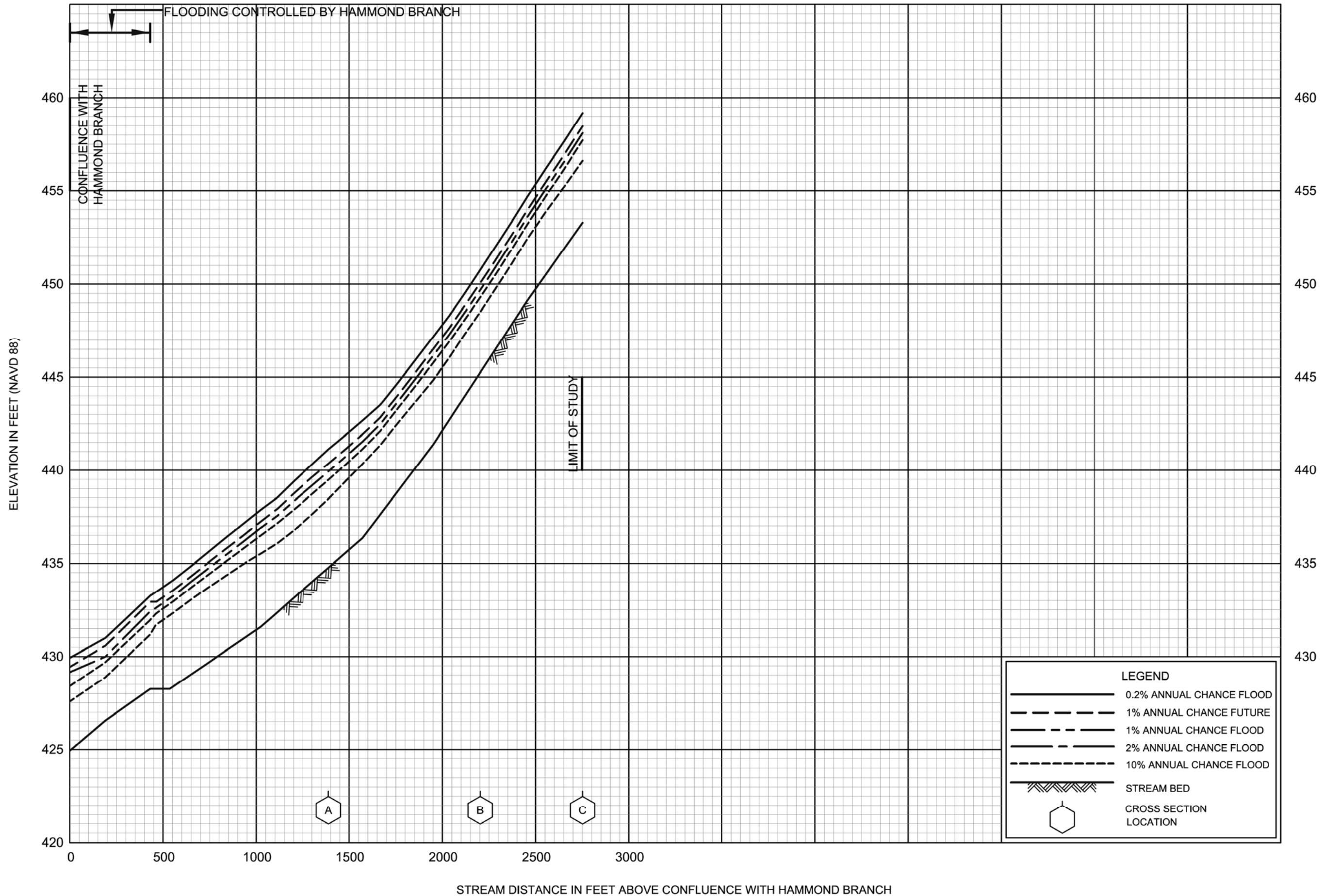


FLOOD PROFILES

STREAM HB-11

FEDERAL EMERGENCY MANAGEMENT AGENCY

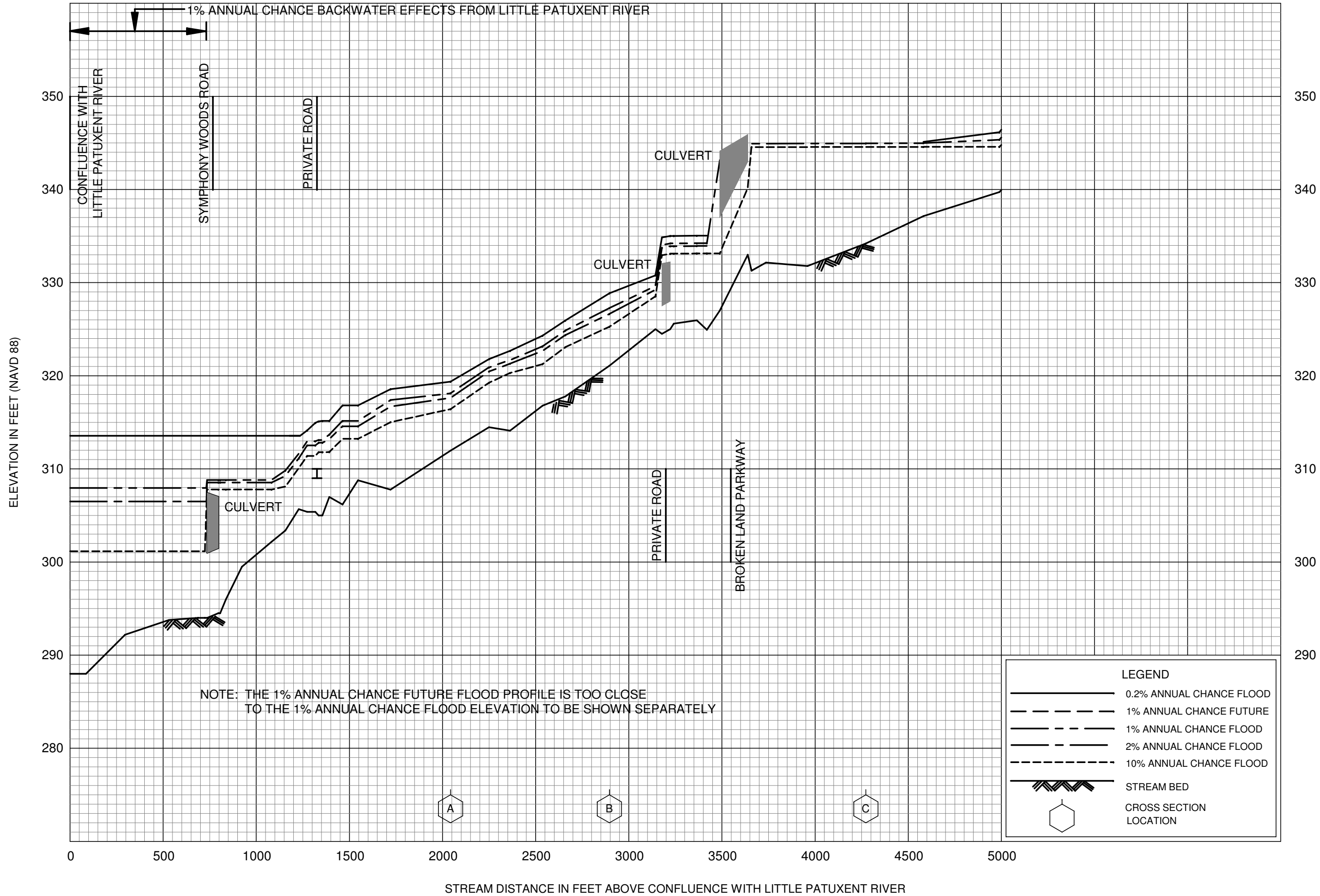
HOWARD COUNTY, MD
AND INCORPORATED AREAS



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

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
 AND INCORPORATED AREAS

FLOOD PROFILES
 STREAM HB-12



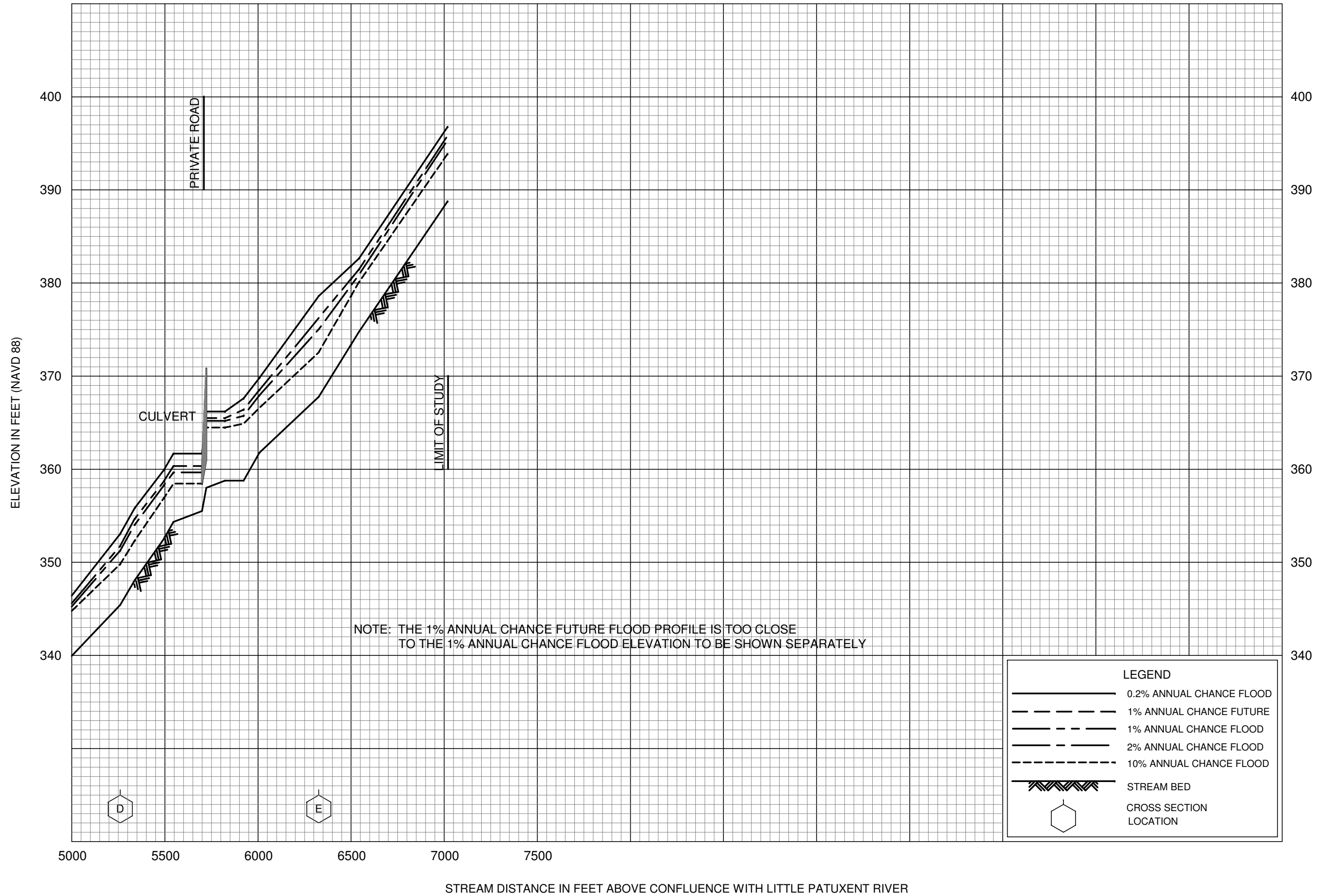
FLOOD PROFILES

STREAM LPR-1

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS

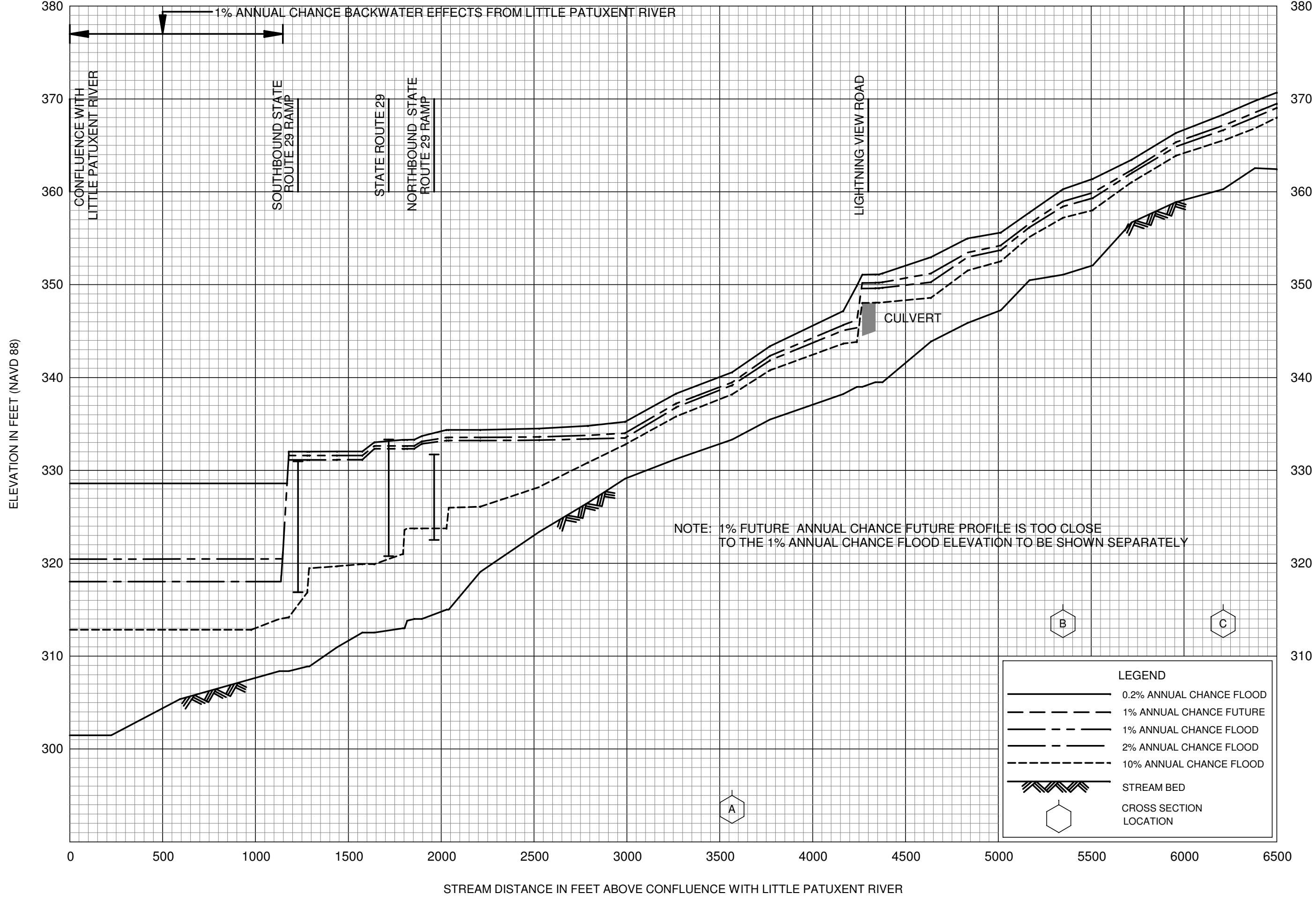


FLOOD PROFILES

STREAM LPR-1

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



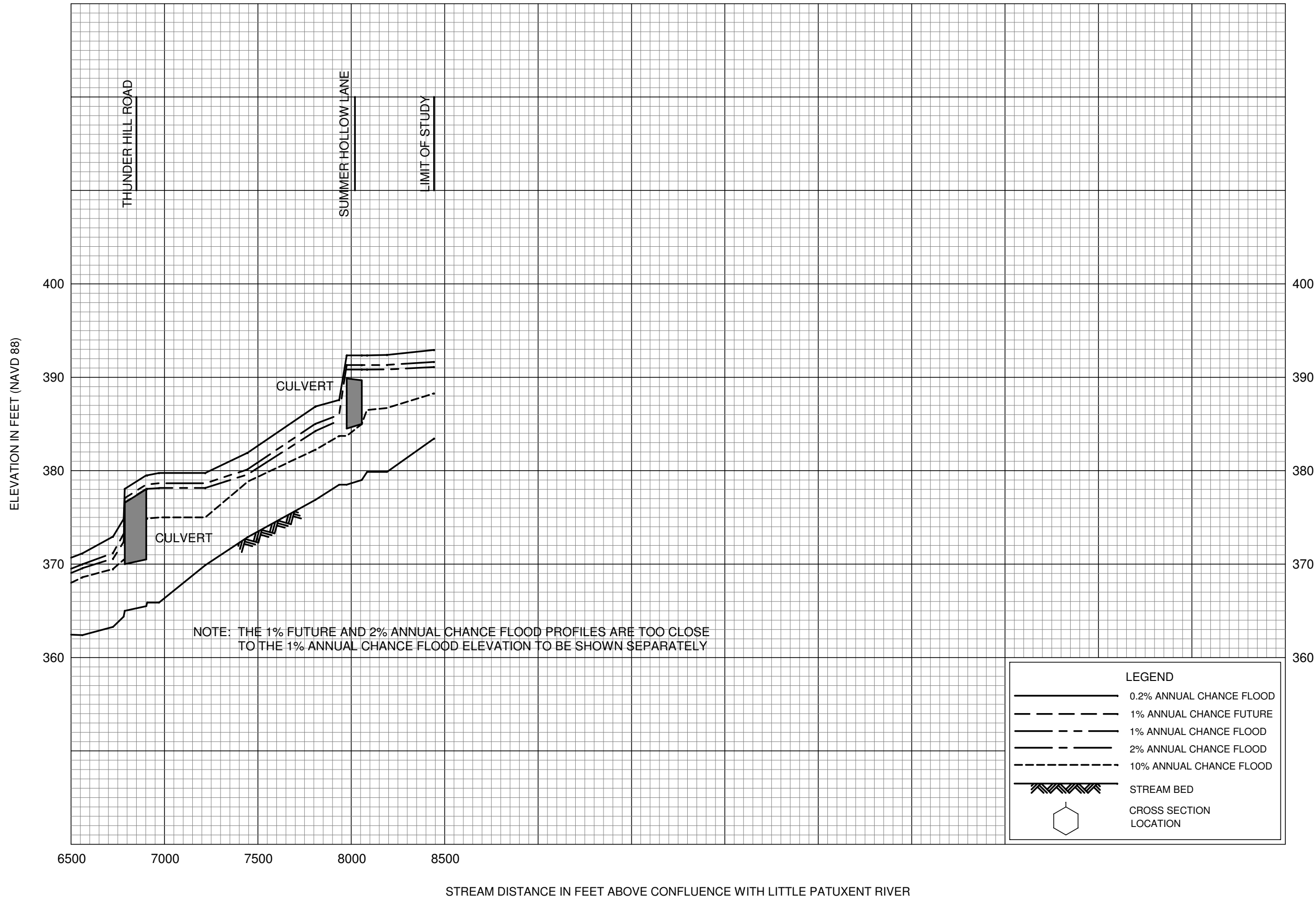
FLOOD PROFILES

STREAM LPR-2

FEDERAL EMERGENCY MANAGEMENT AGENCY

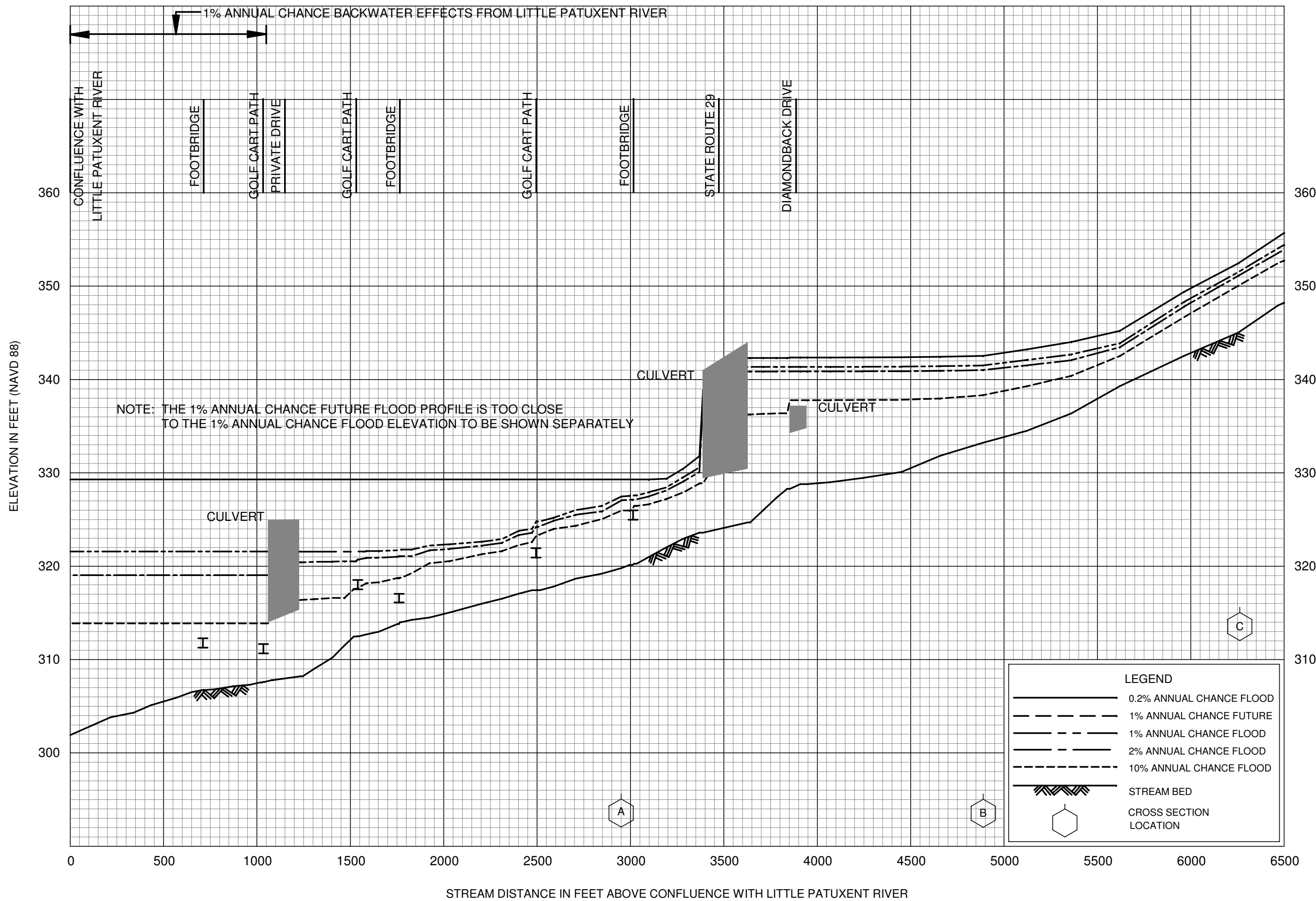
HOWARD COUNTY, MD
AND INCORPORATED AREAS

207P



FLOOD PROFILES
STREAM LPR-2

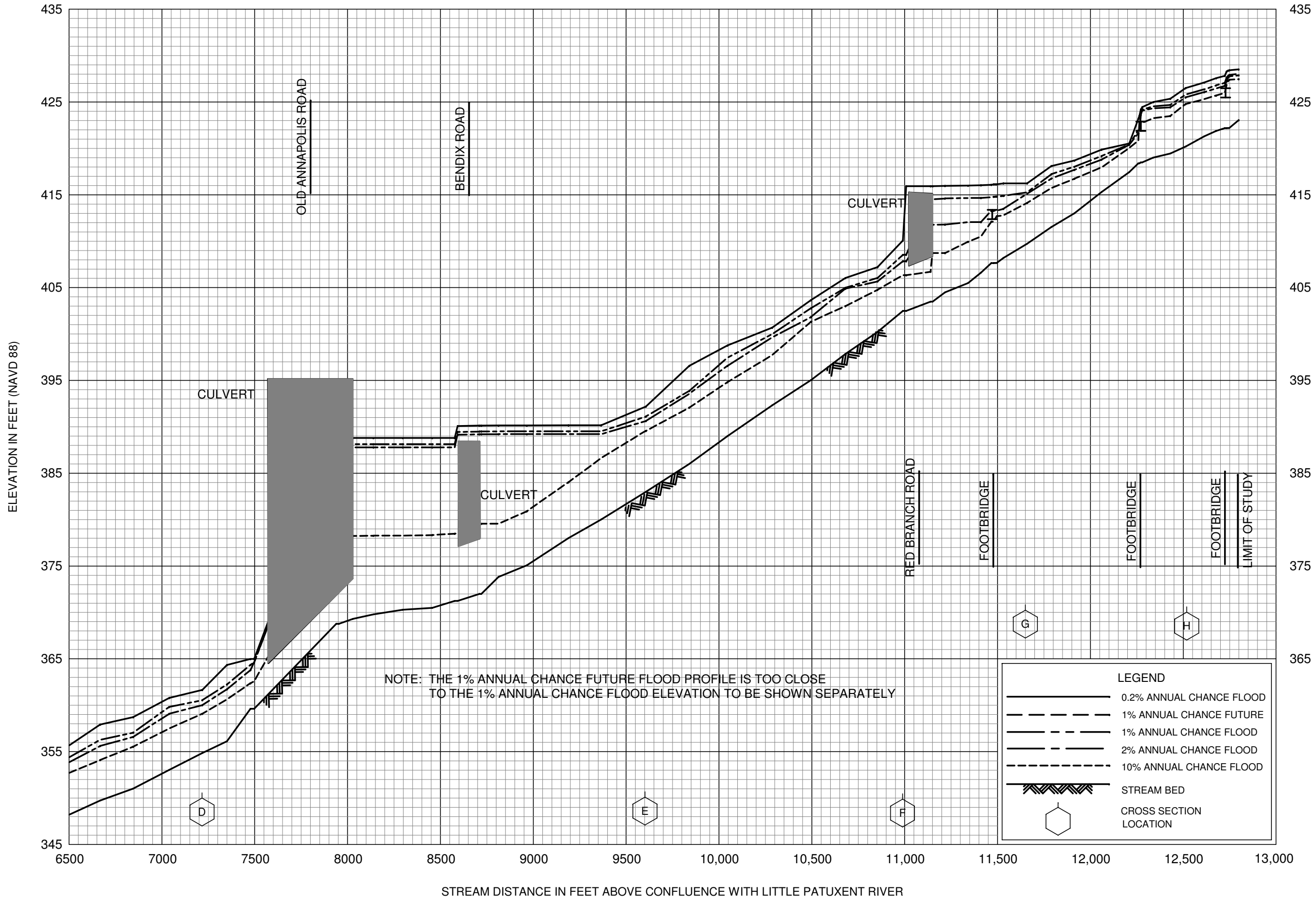
FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS



FLOOD PROFILES

STREAM LPR-3

FEDERAL EMERGENCY MANAGEMENT AGENCY
 HOWARD COUNTY, MD
 AND INCORPORATED AREAS



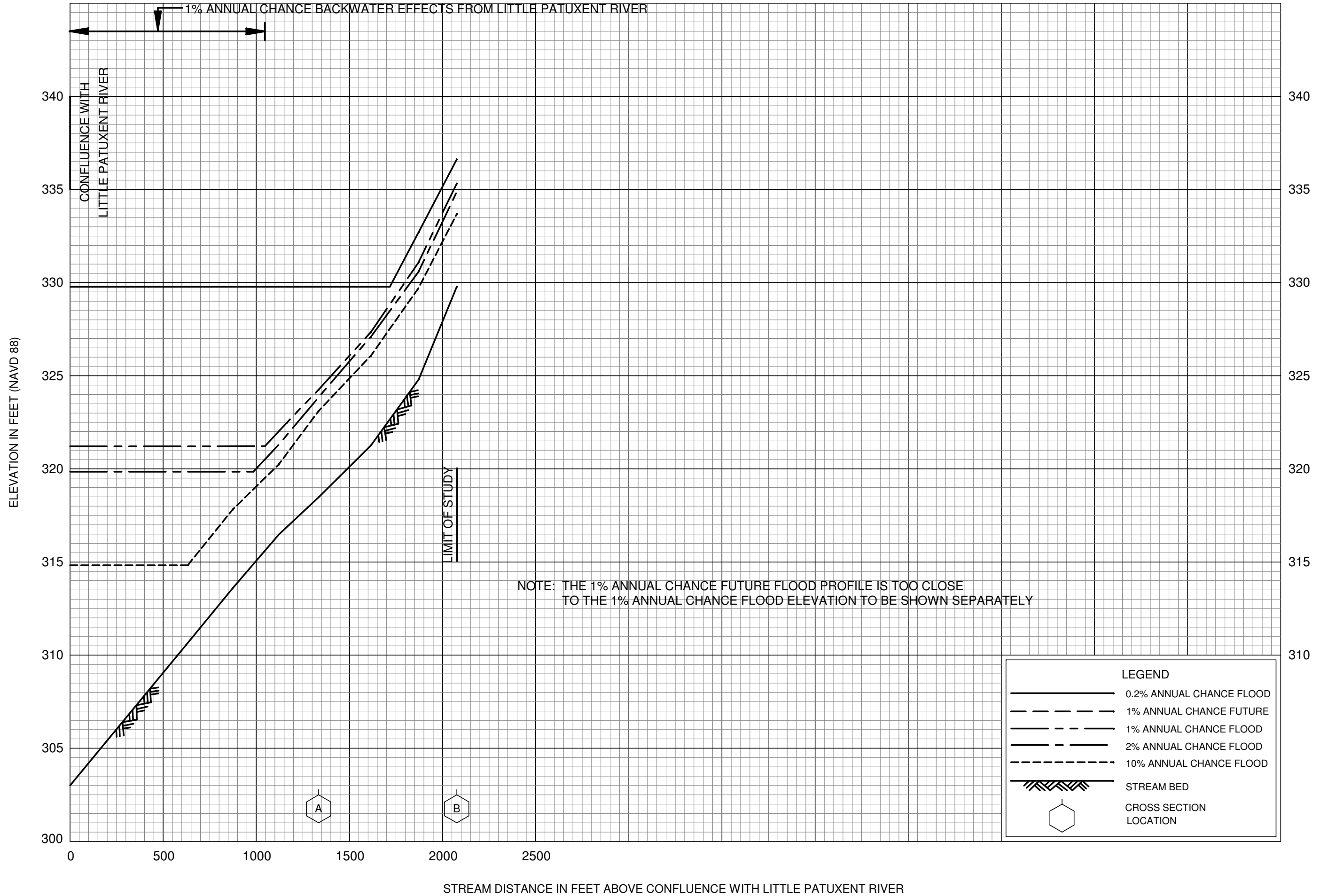
FLOOD PROFILES

STREAM LPR-3

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS

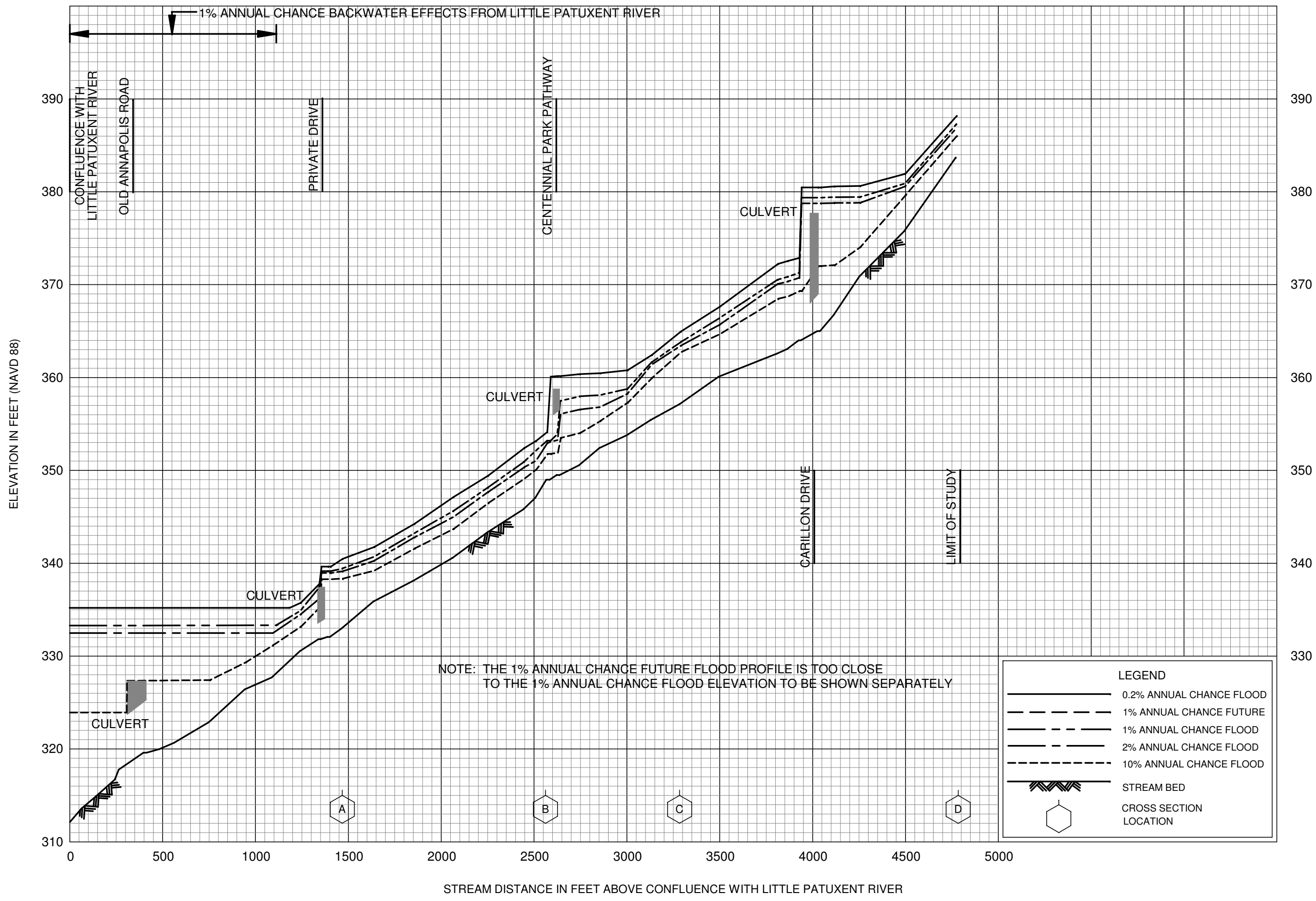


FLOOD PROFILES

STREAM LPR-4

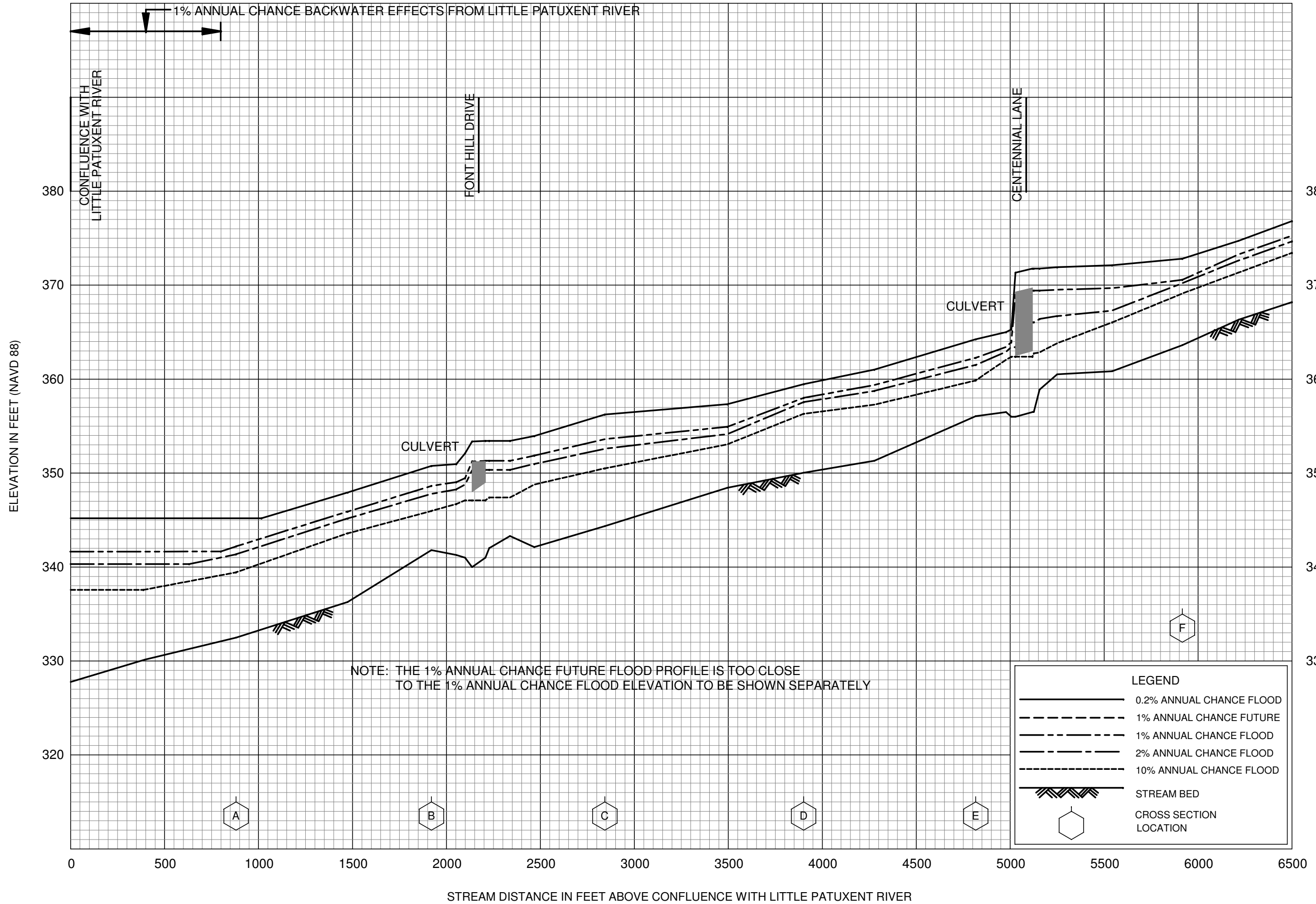
FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



FLOOD PROFILES
STREAM LPR-5

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS



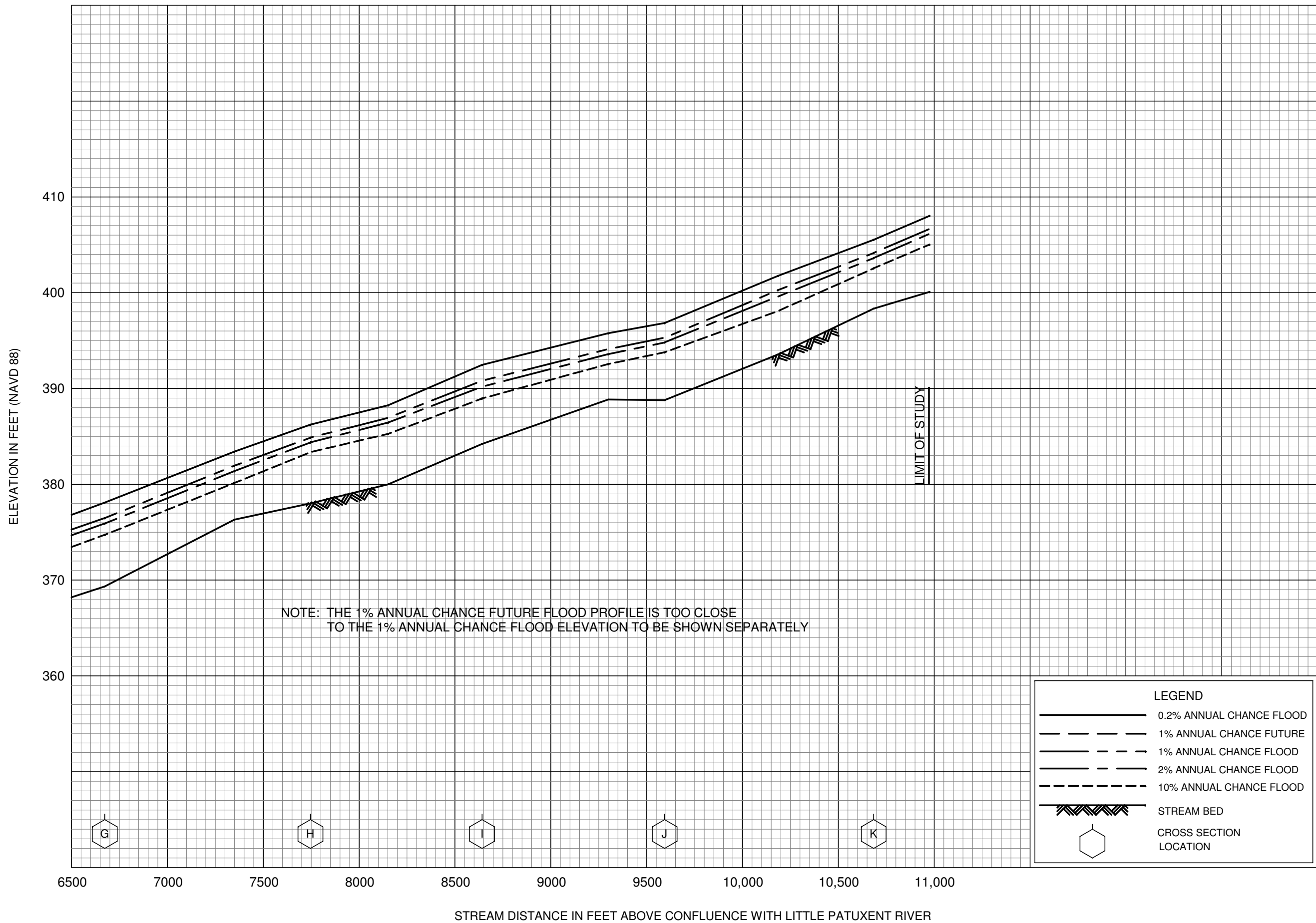
FLOOD PROFILES

STREAM LPR-6

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS

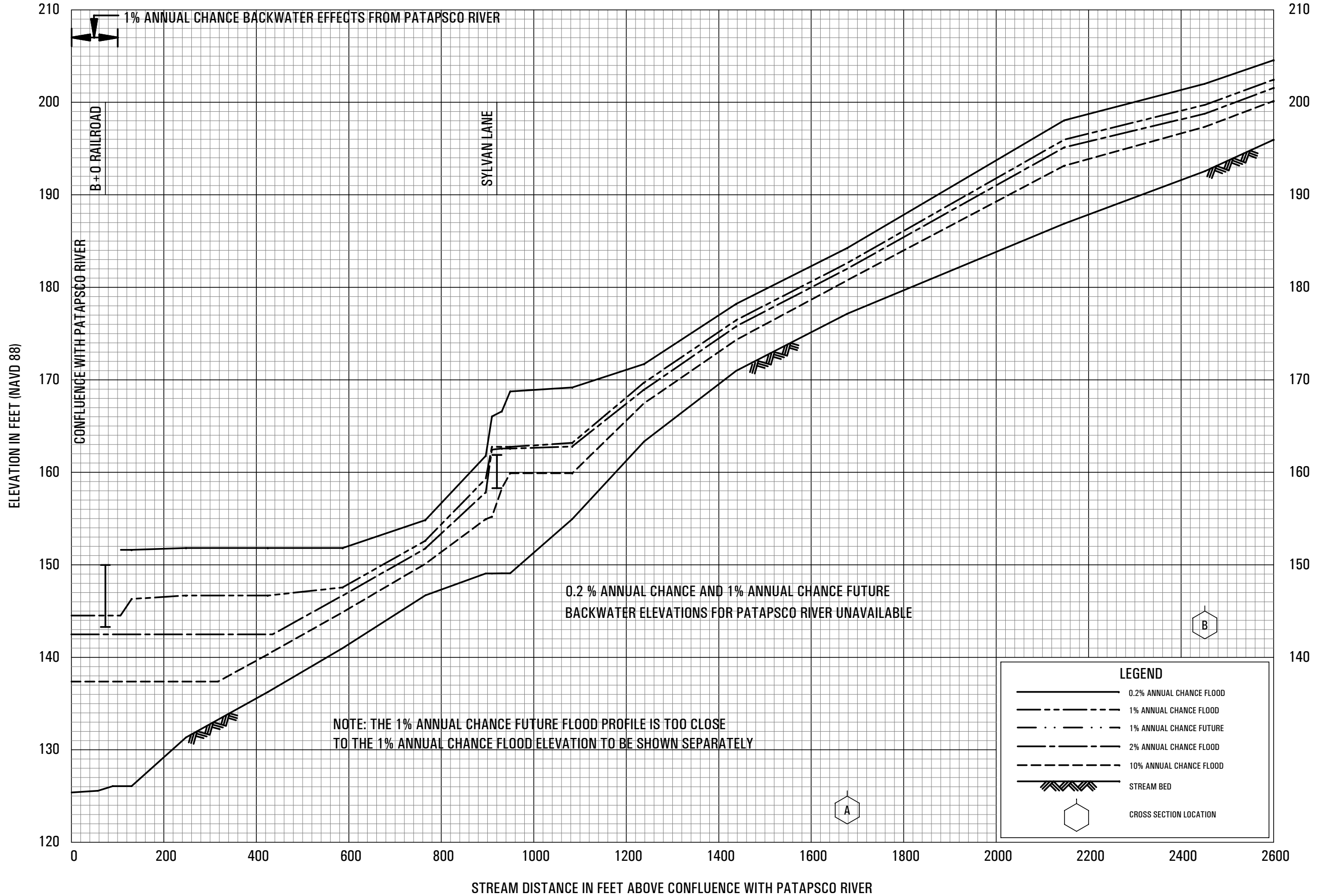


FLOOD PROFILES

STREAM LPR-6

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



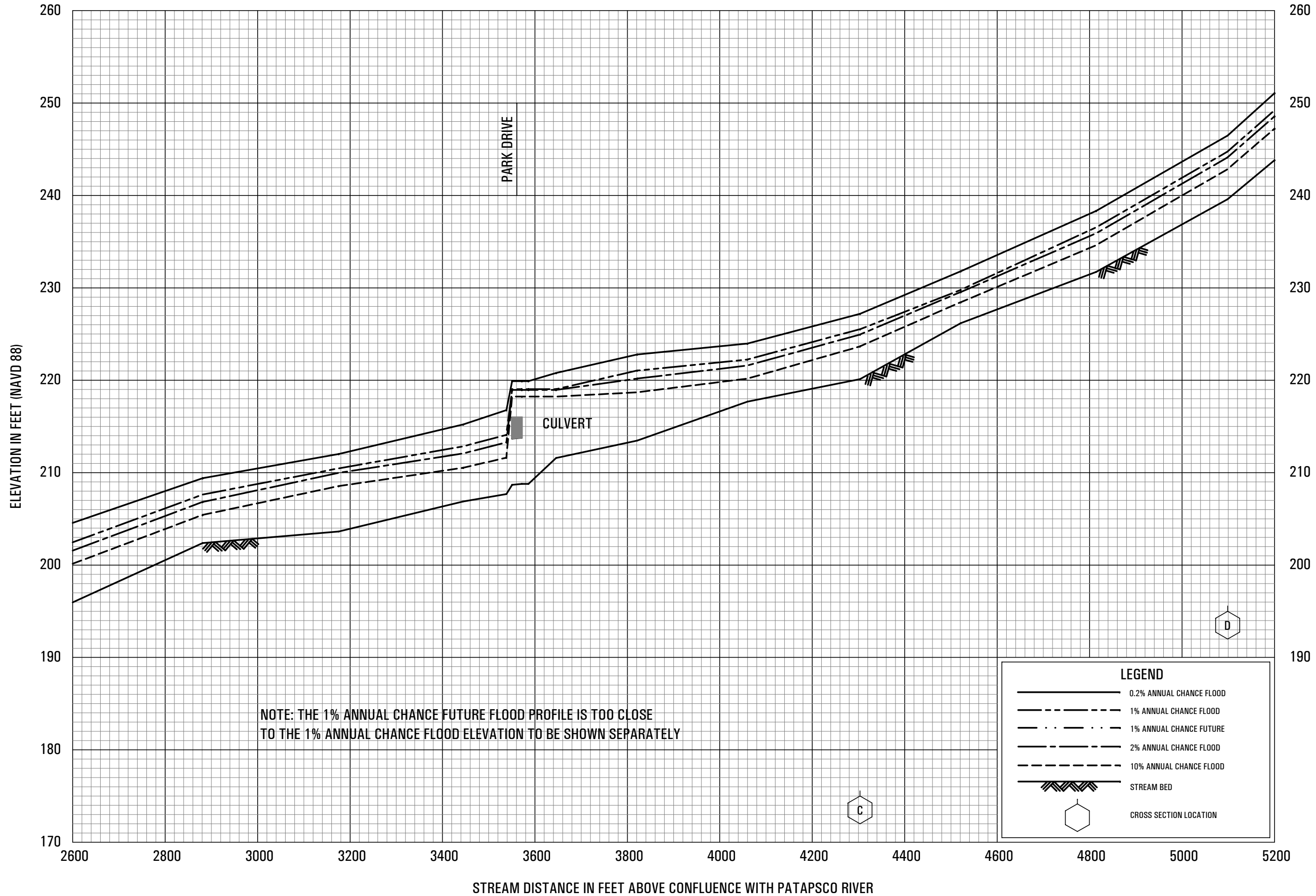
FLOOD PROFILES

SUCKER BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS



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

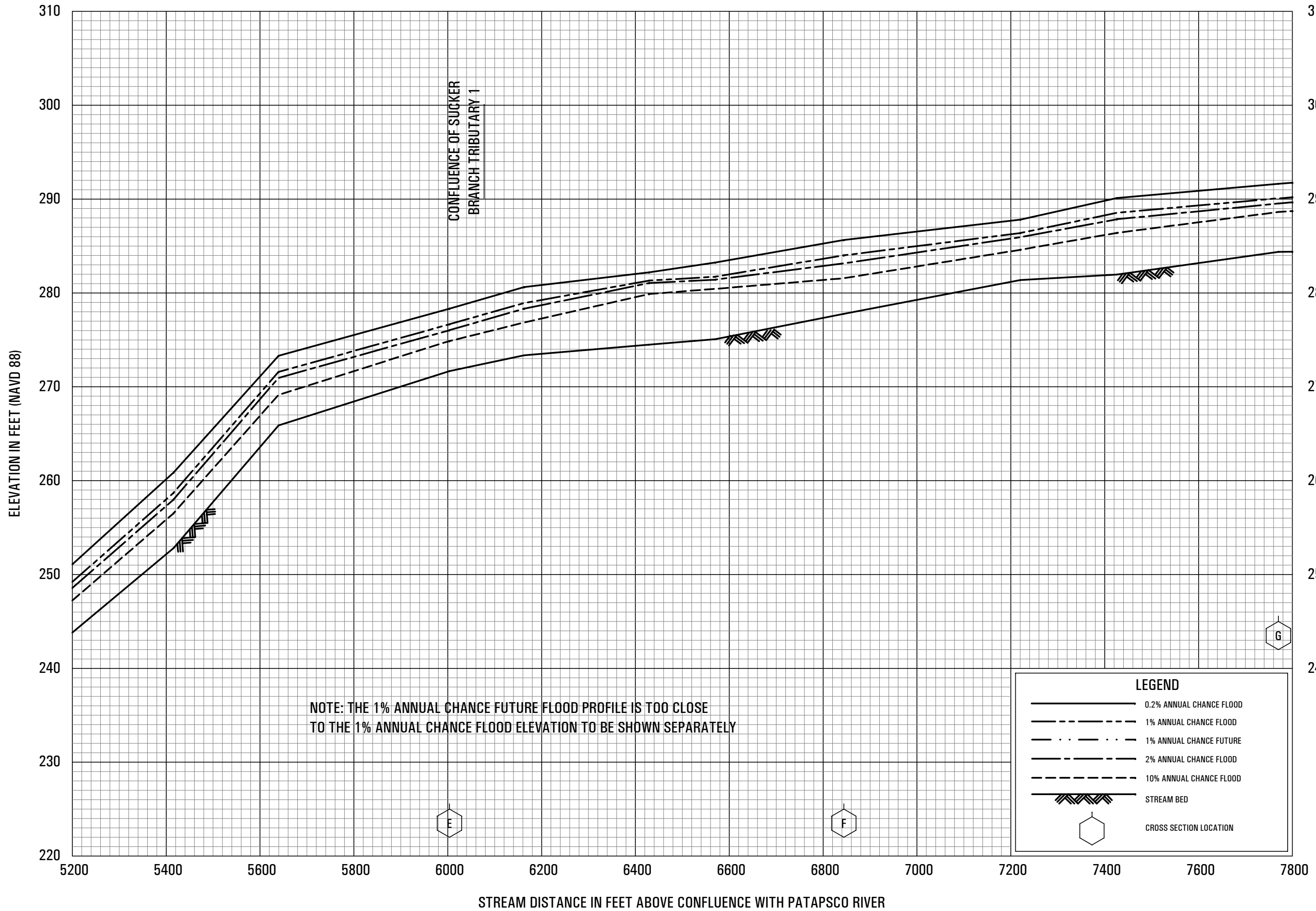
FLOOD PROFILES

SUCKER BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS



CONFLUENCE OF SUCKER
BRANCH TRIBUTARY 1

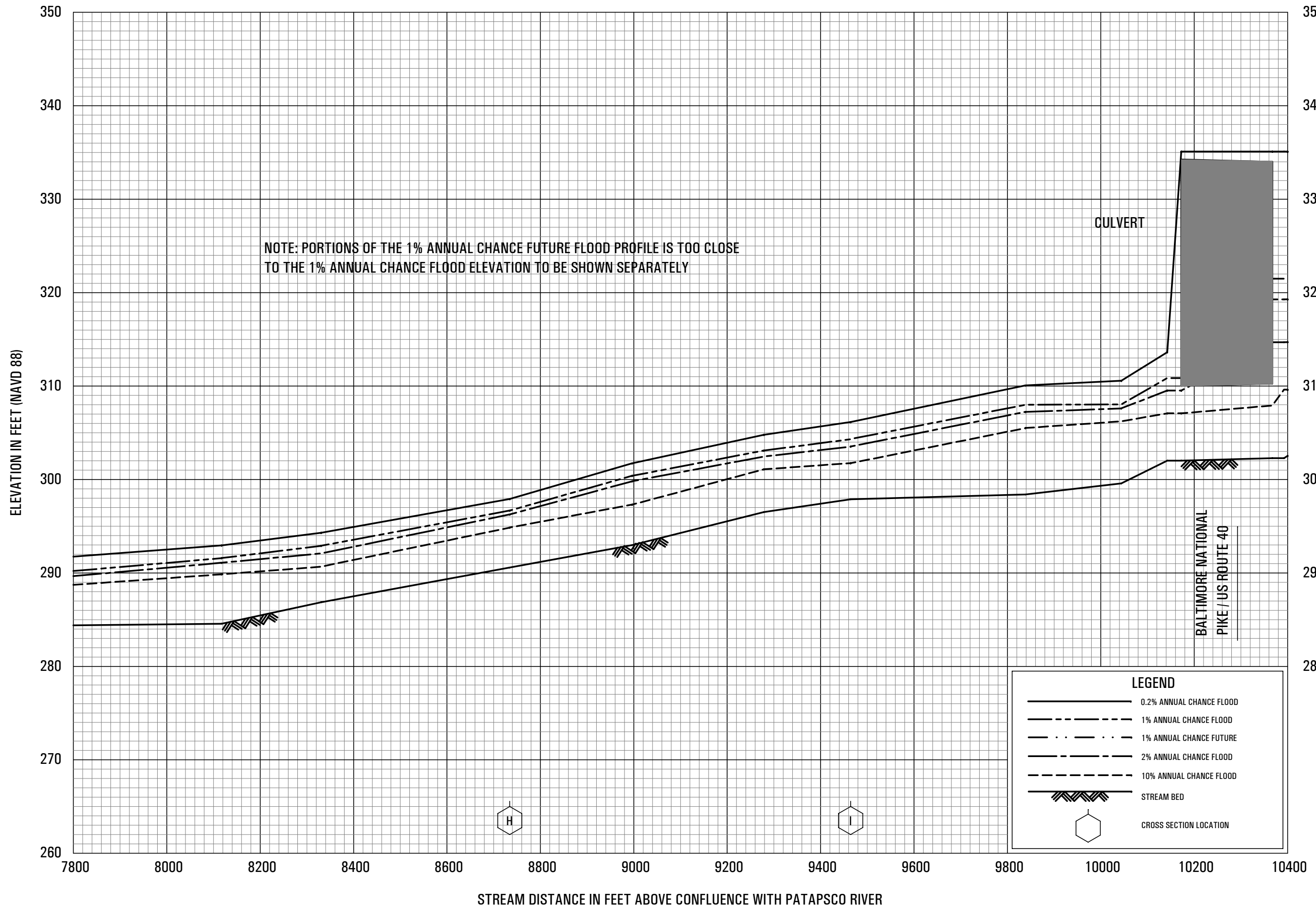
FLOOD PROFILES

SUCKER BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

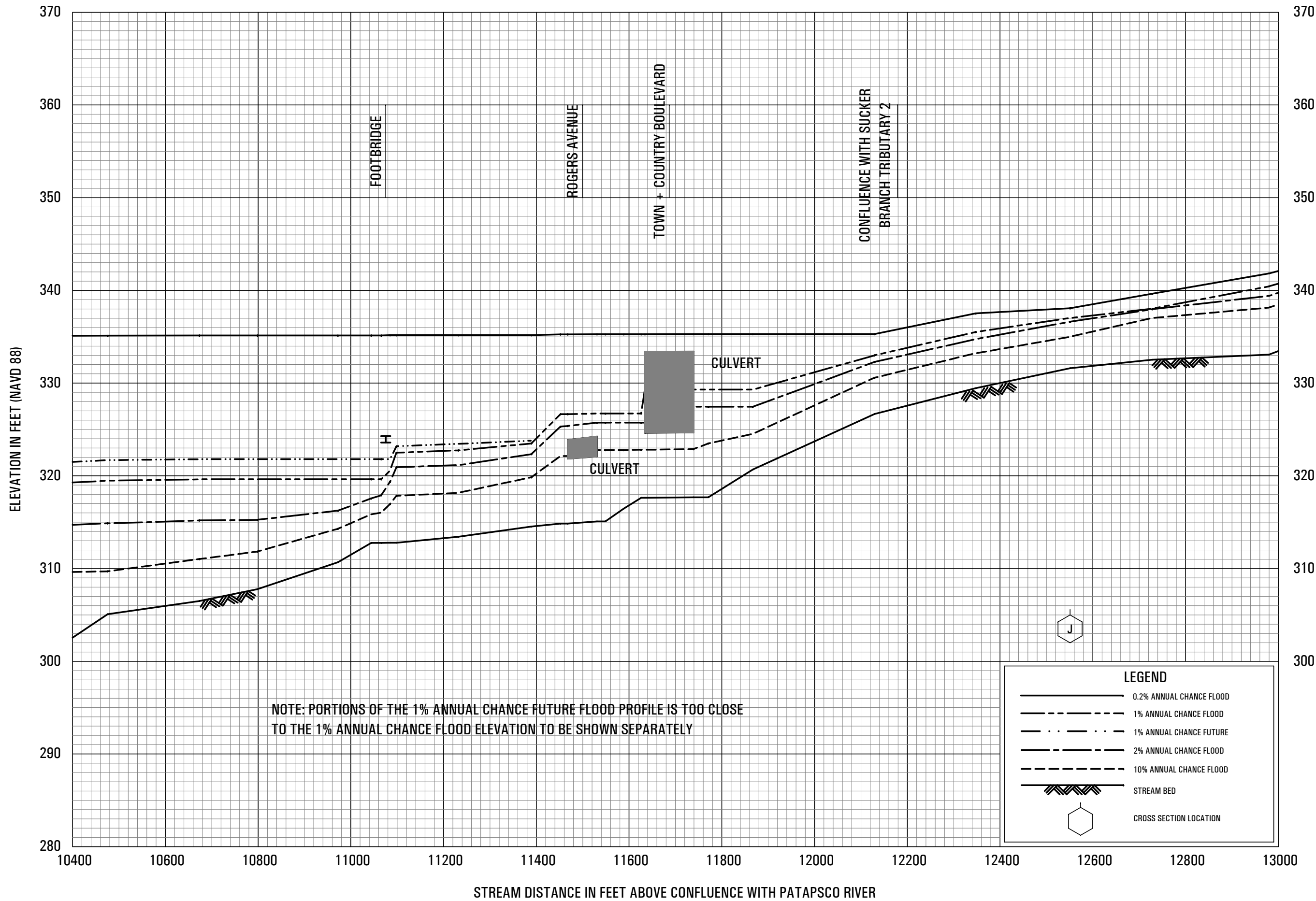
HOWARD COUNTY, MD

AND INCORPORATED AREAS



FLOOD PROFILES
SUCKER BRANCH

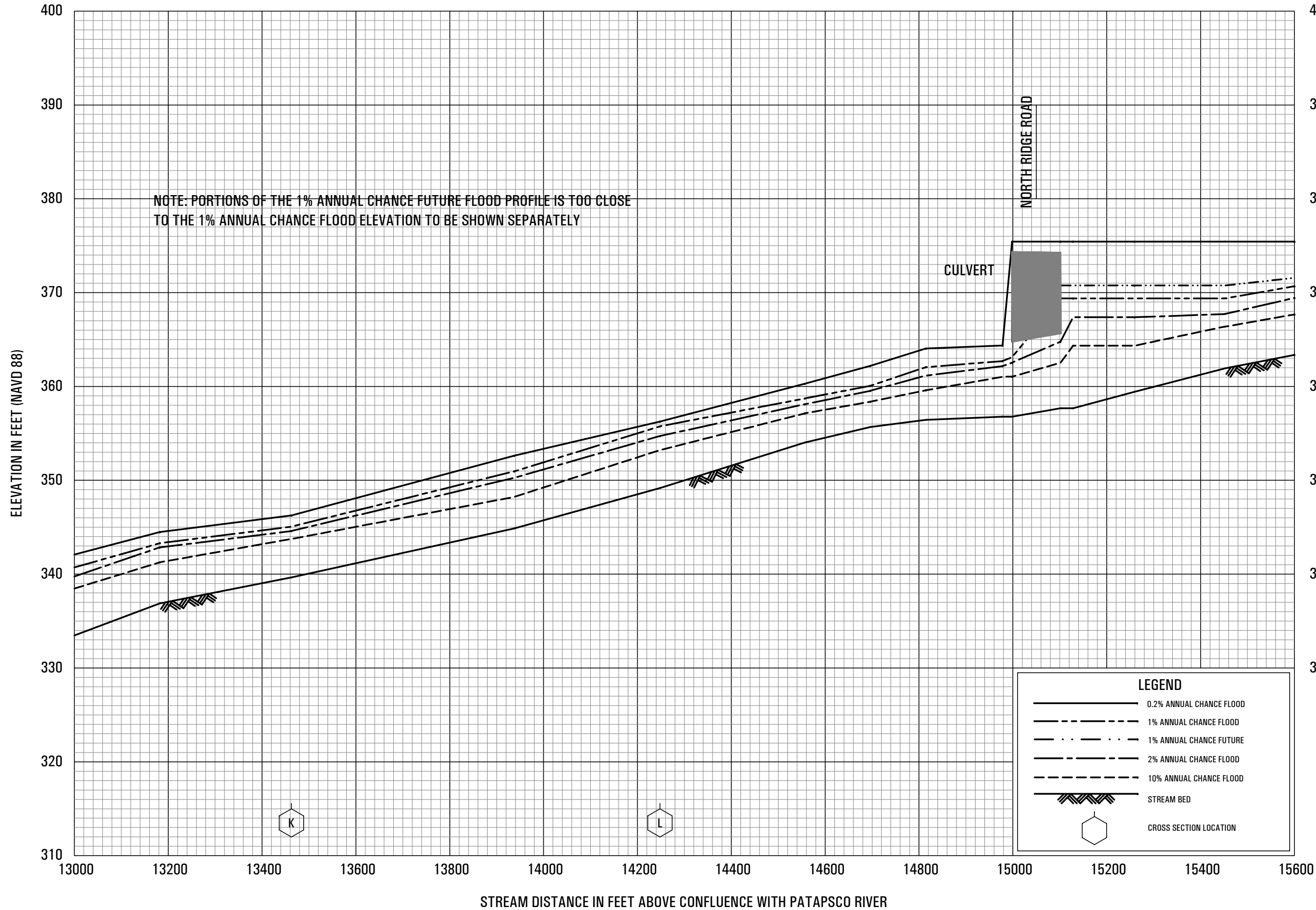
FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS



FLOOD PROFILES

SUCKER BRANCH

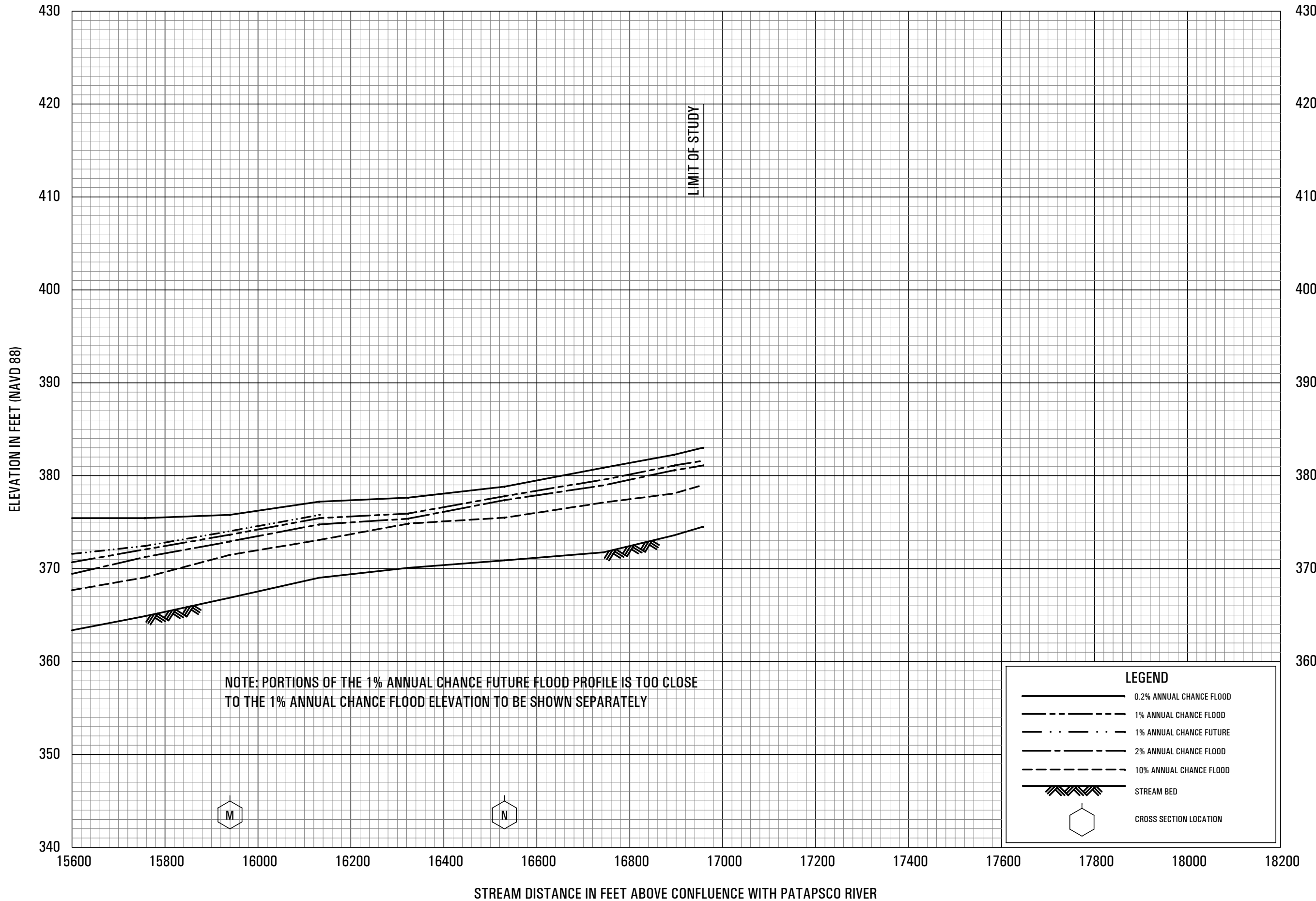
FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
 AND INCORPORATED AREAS



FLOOD PROFILES

SUCKER BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
 AND INCORPORATED AREAS



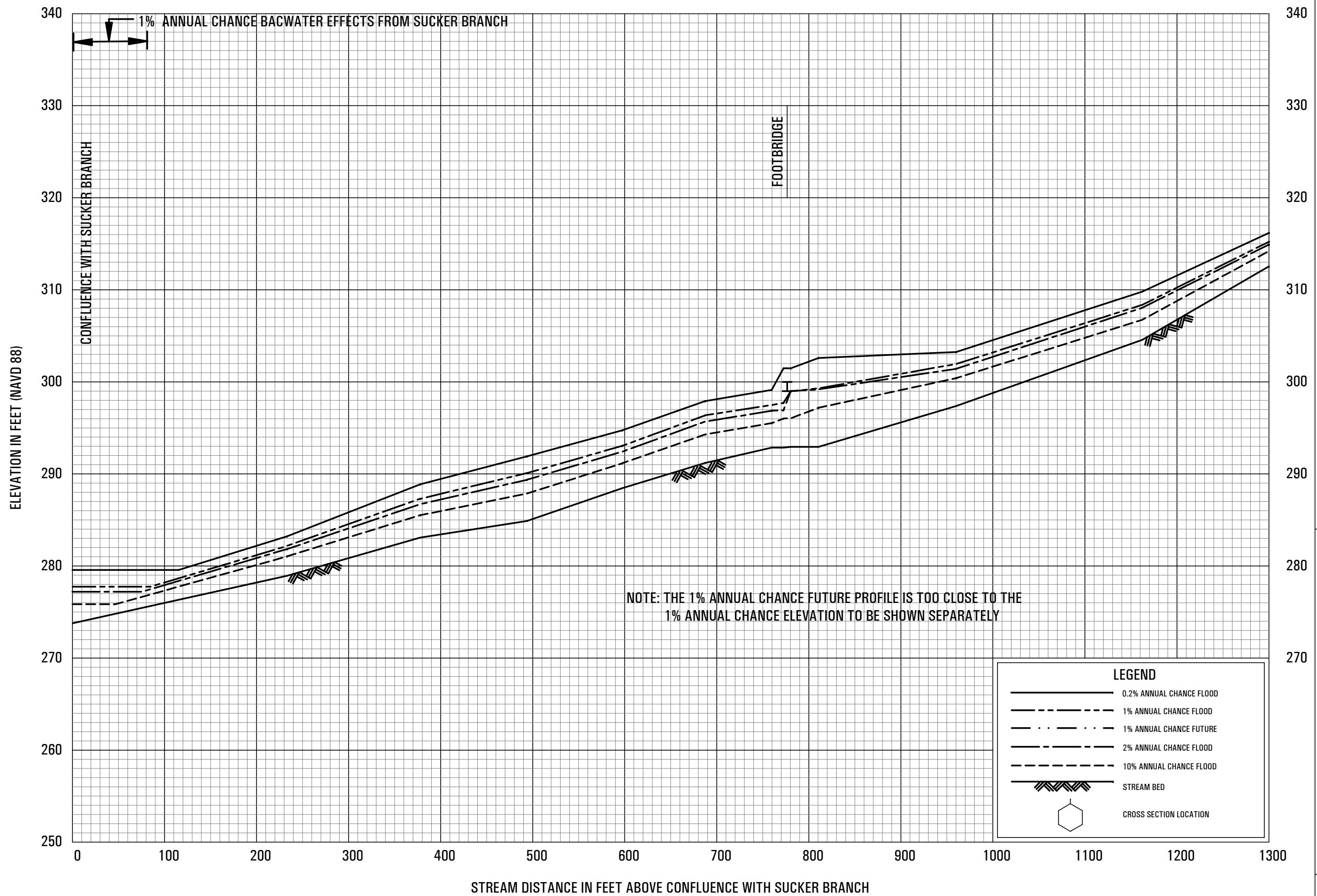
FLOOD PROFILES

SUCKER BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

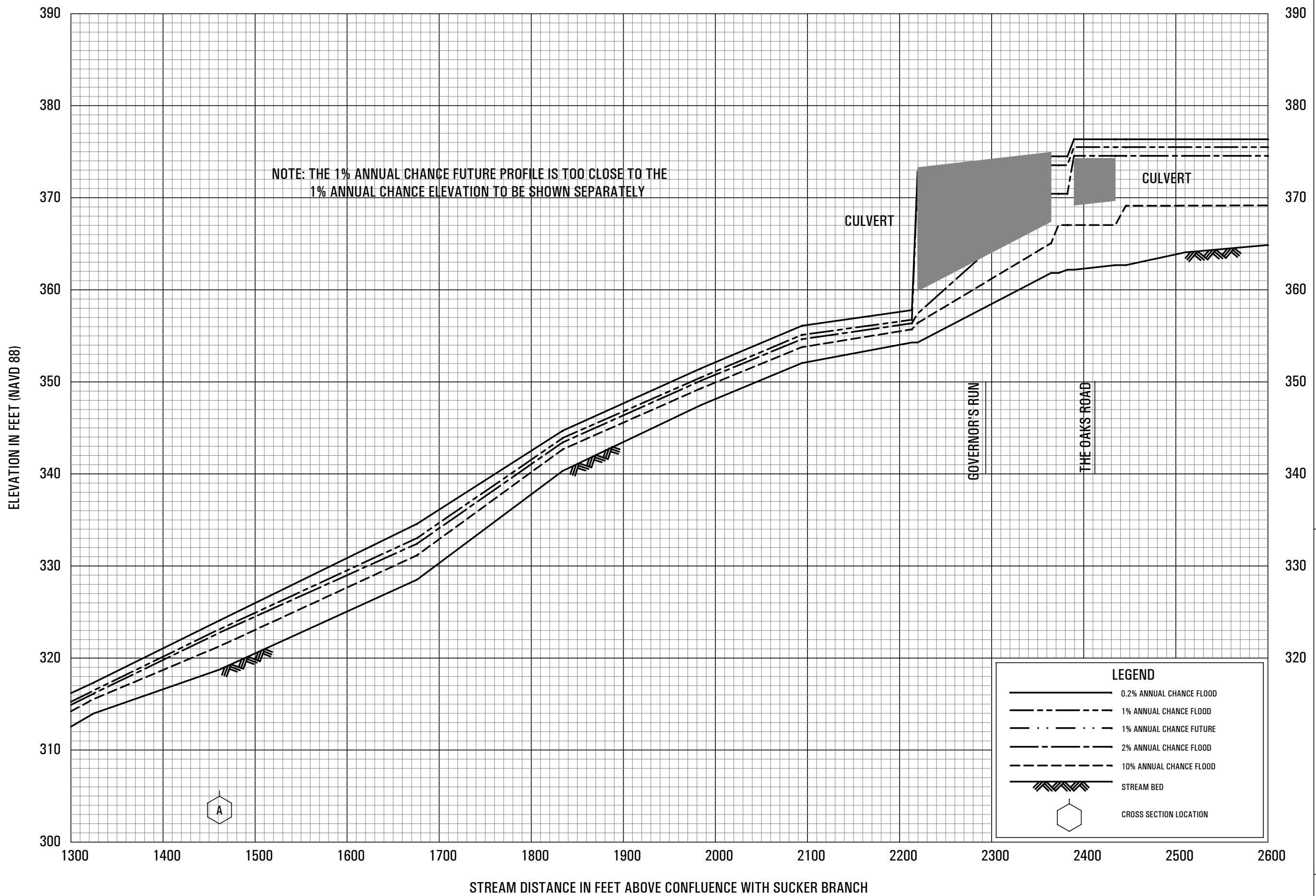
AND INCORPORATED AREAS



FLOOD PROFILES

SUCKER BRANCH TRIBUTARY 1

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
 AND INCORPORATED AREAS

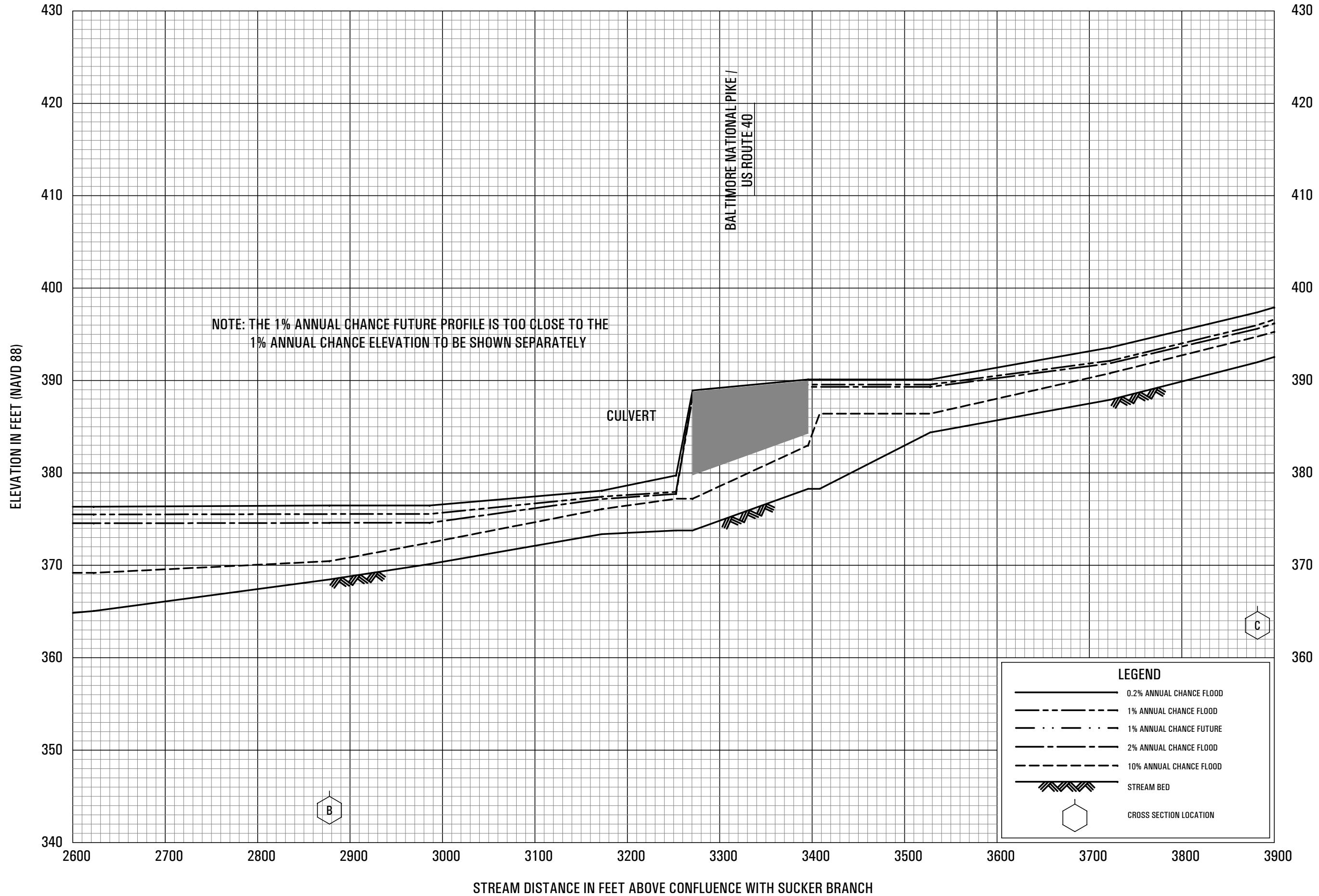


FLOOD PROFILES

SUCKER BRANCH TRIBUTARY 1

FEDERAL EMERGENCY MANAGEMENT AGENCY

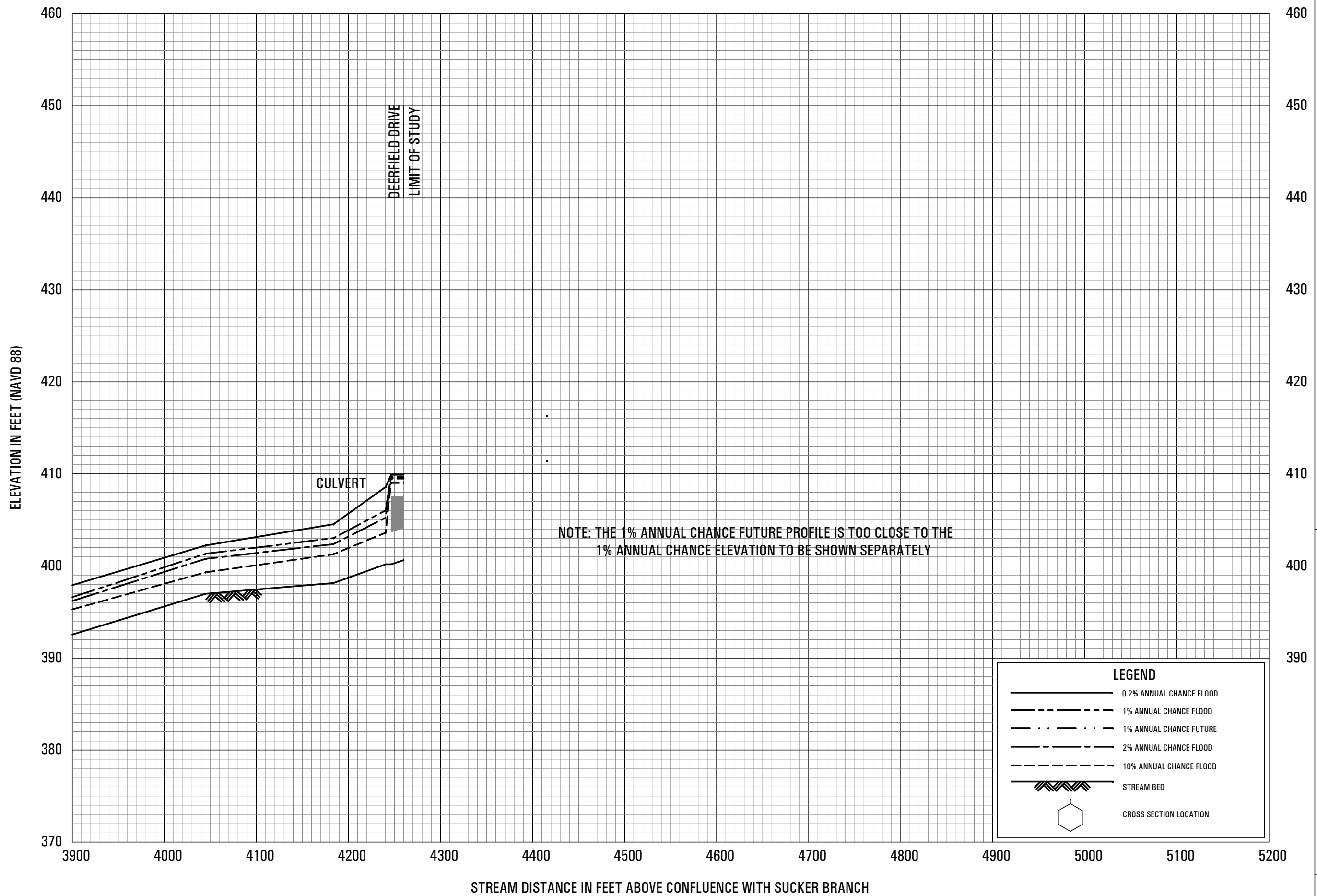
**HOWARD COUNTY, MD
AND INCORPORATED AREAS**



FLOOD PROFILES

SUCKER BRANCH TRIBUTARY 1

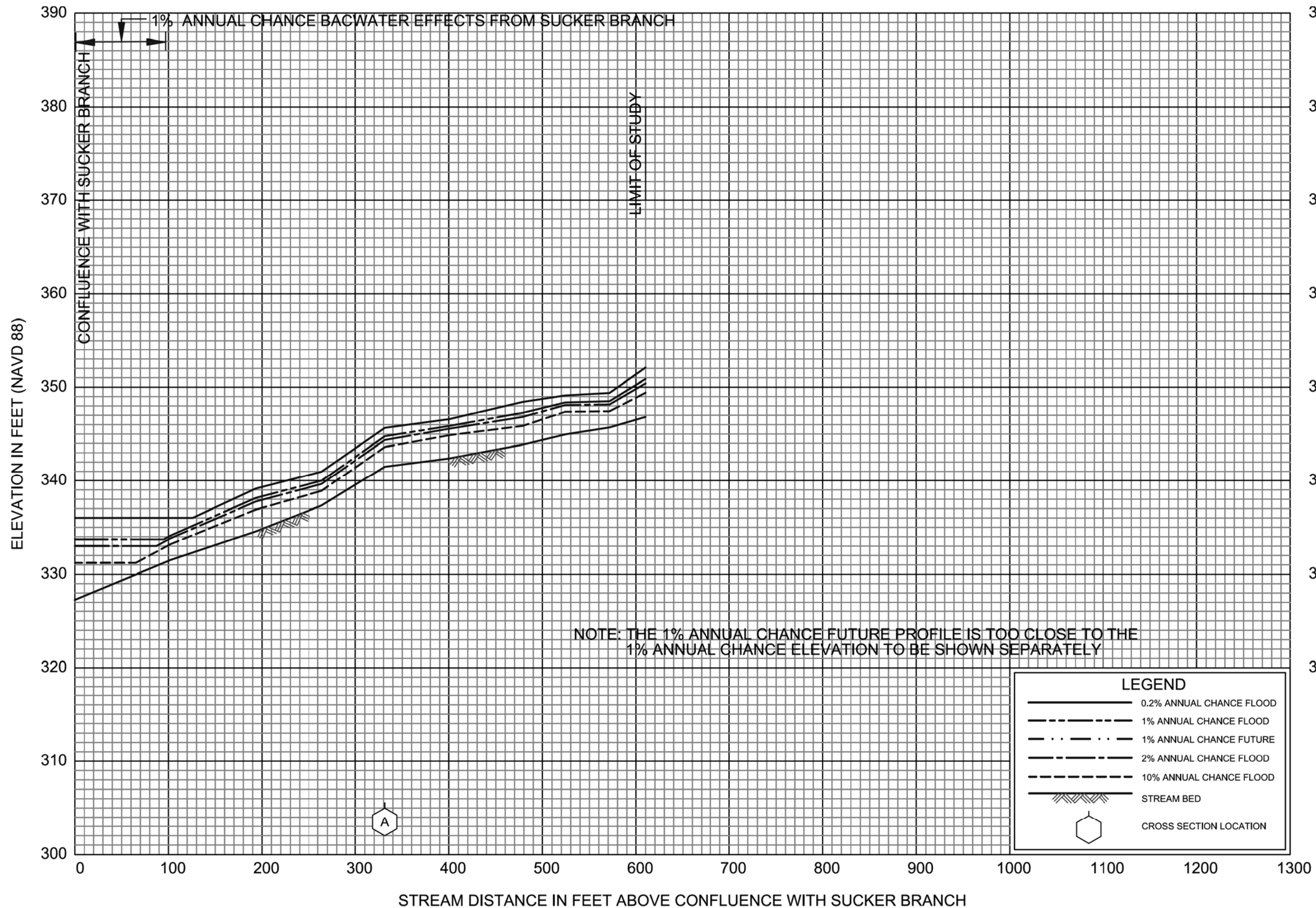
FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
 AND INCORPORATED AREAS



FLOOD PROFILES

SUCKER BRANCH TRIBUTARY 1

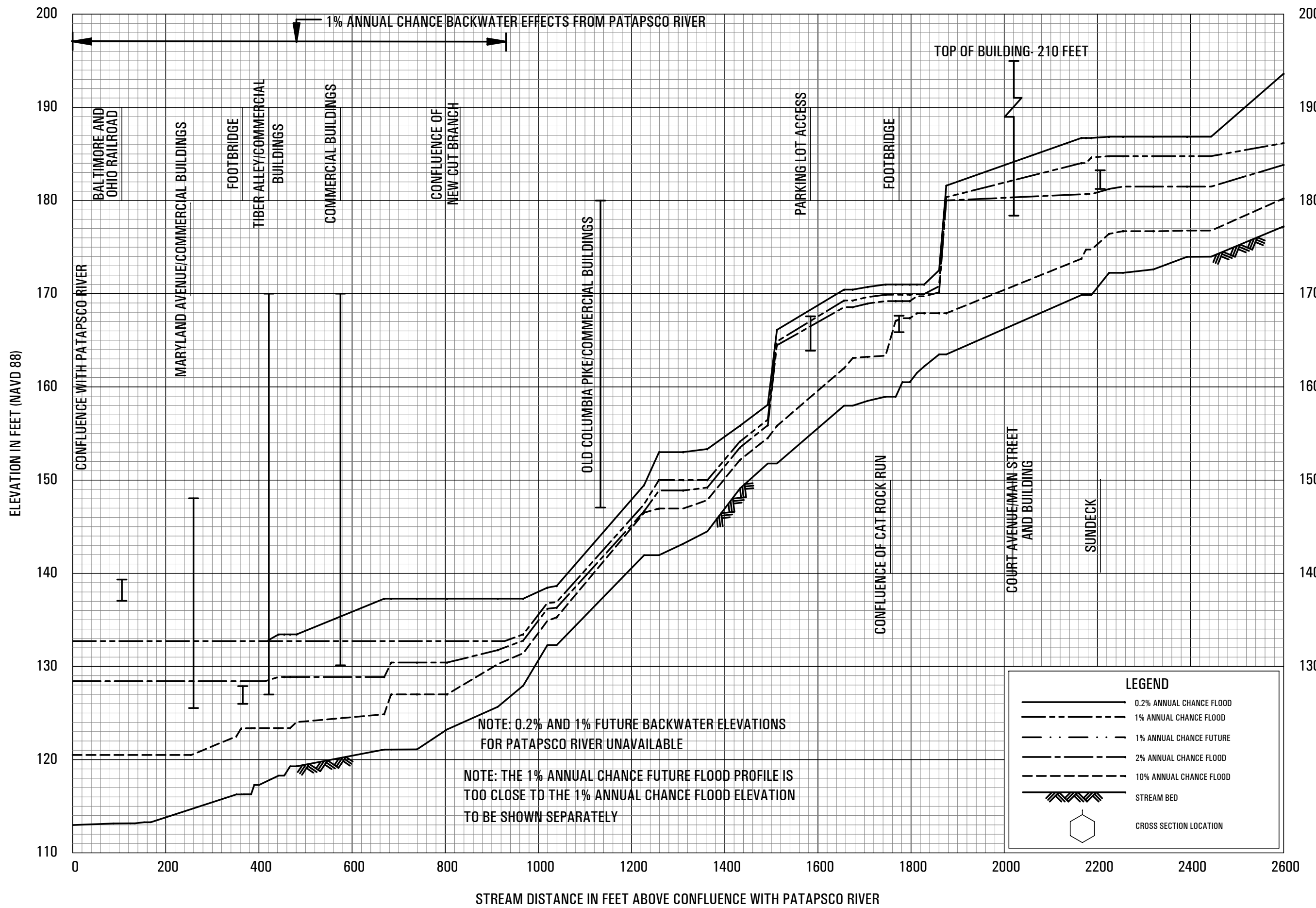
FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
 AND INCORPORATED AREAS



FLOOD PROFILES

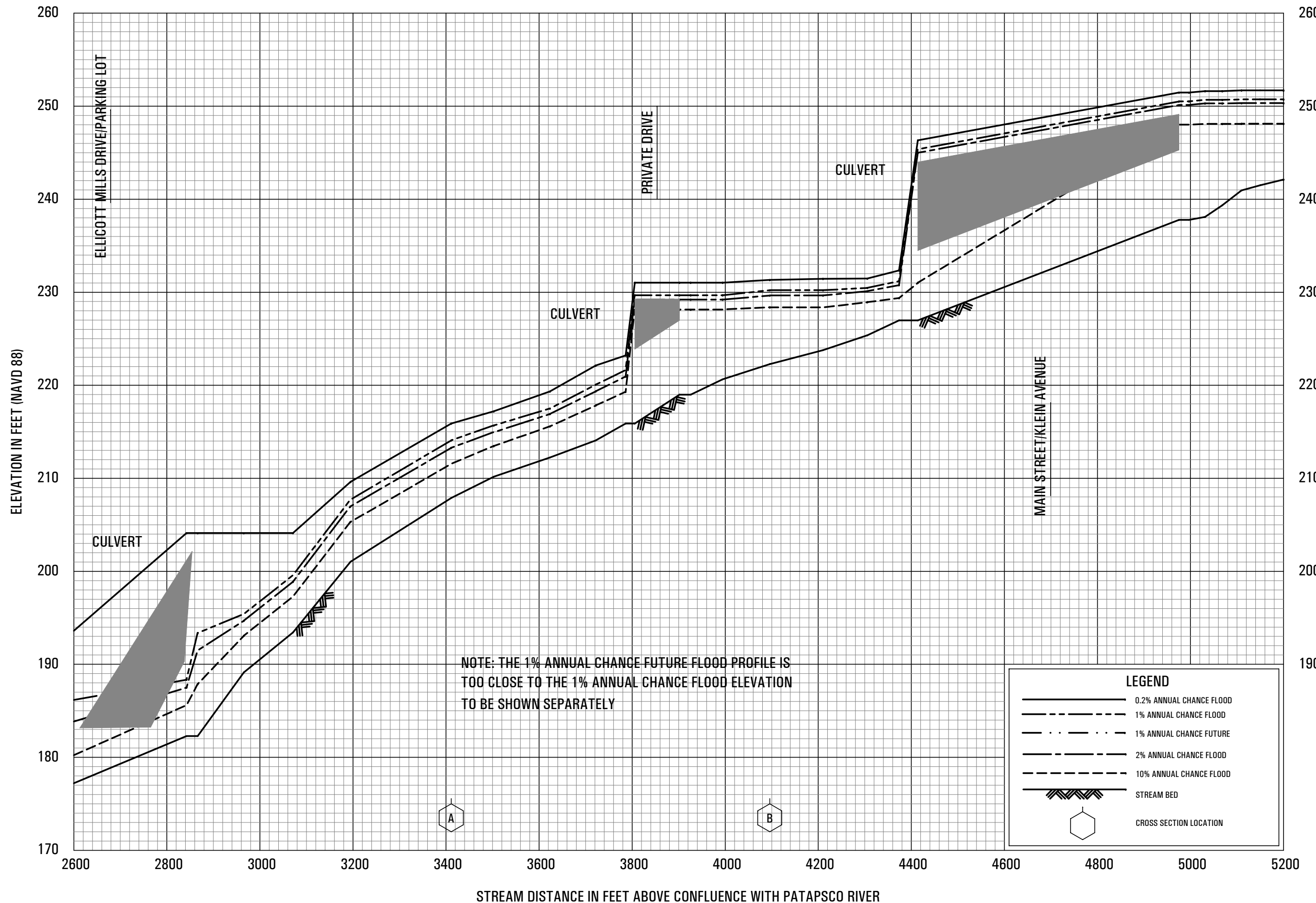
SUCKER BRANCH TRIBUTARY 2

FEDERAL EMERGENCY MANAGEMENT AGENCY
 HOWARD COUNTY, MD
 AND INCORPORATED AREAS



FLOOD PROFILES
TIBER-HUDSON BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS



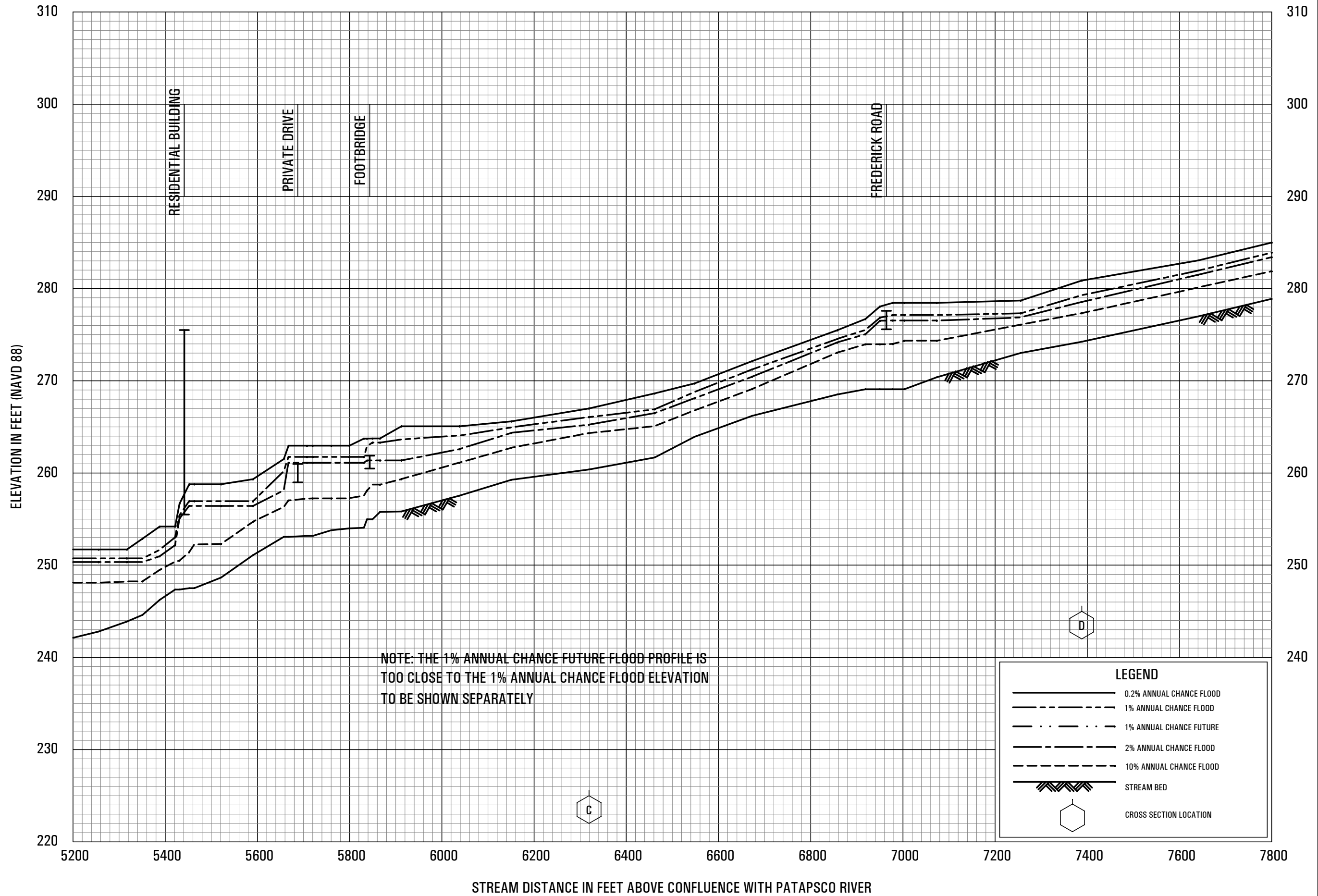
FLOOD PROFILES

TIBER-HUDSON BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

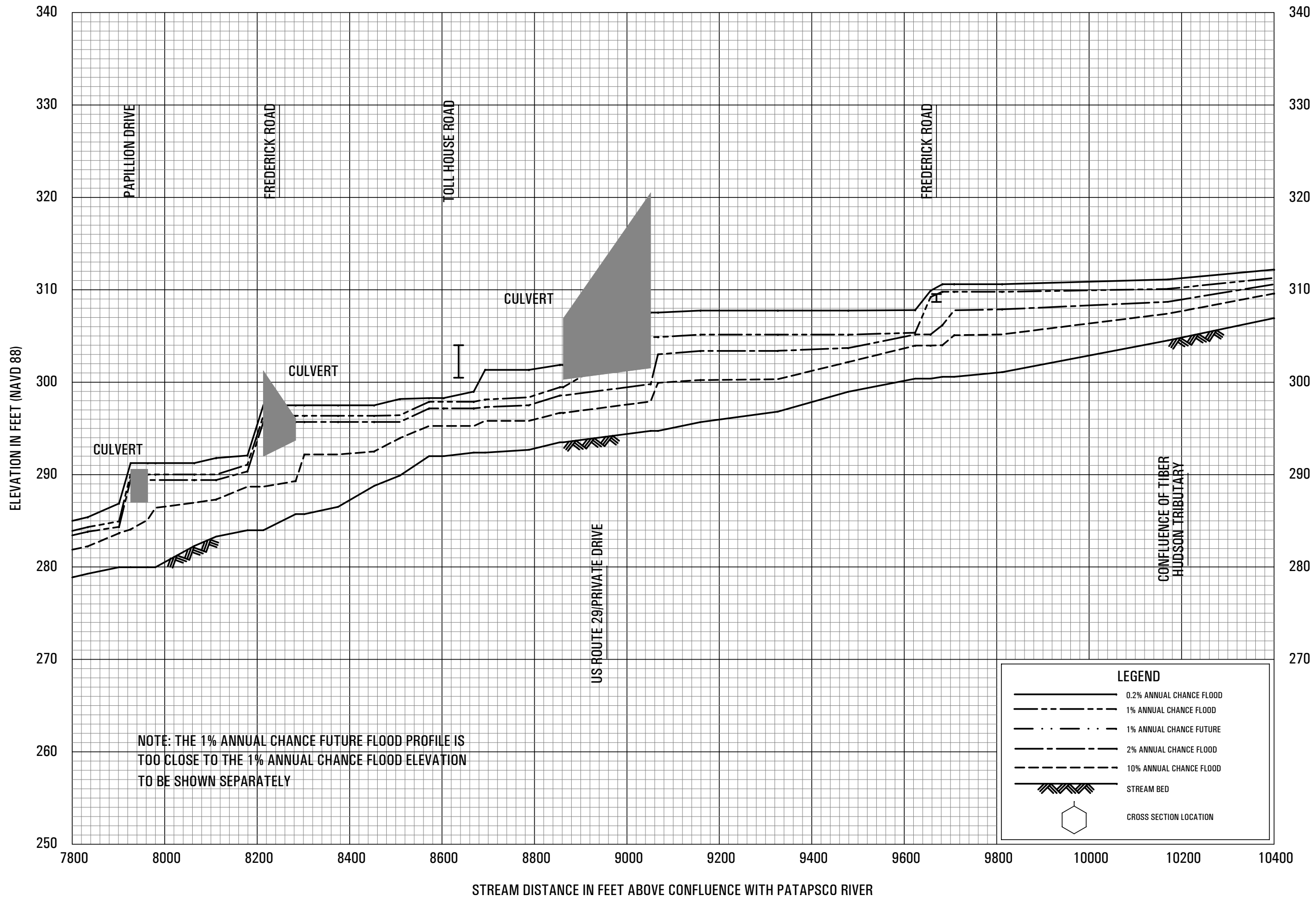
HOWARD COUNTY, MD

AND INCORPORATED AREAS



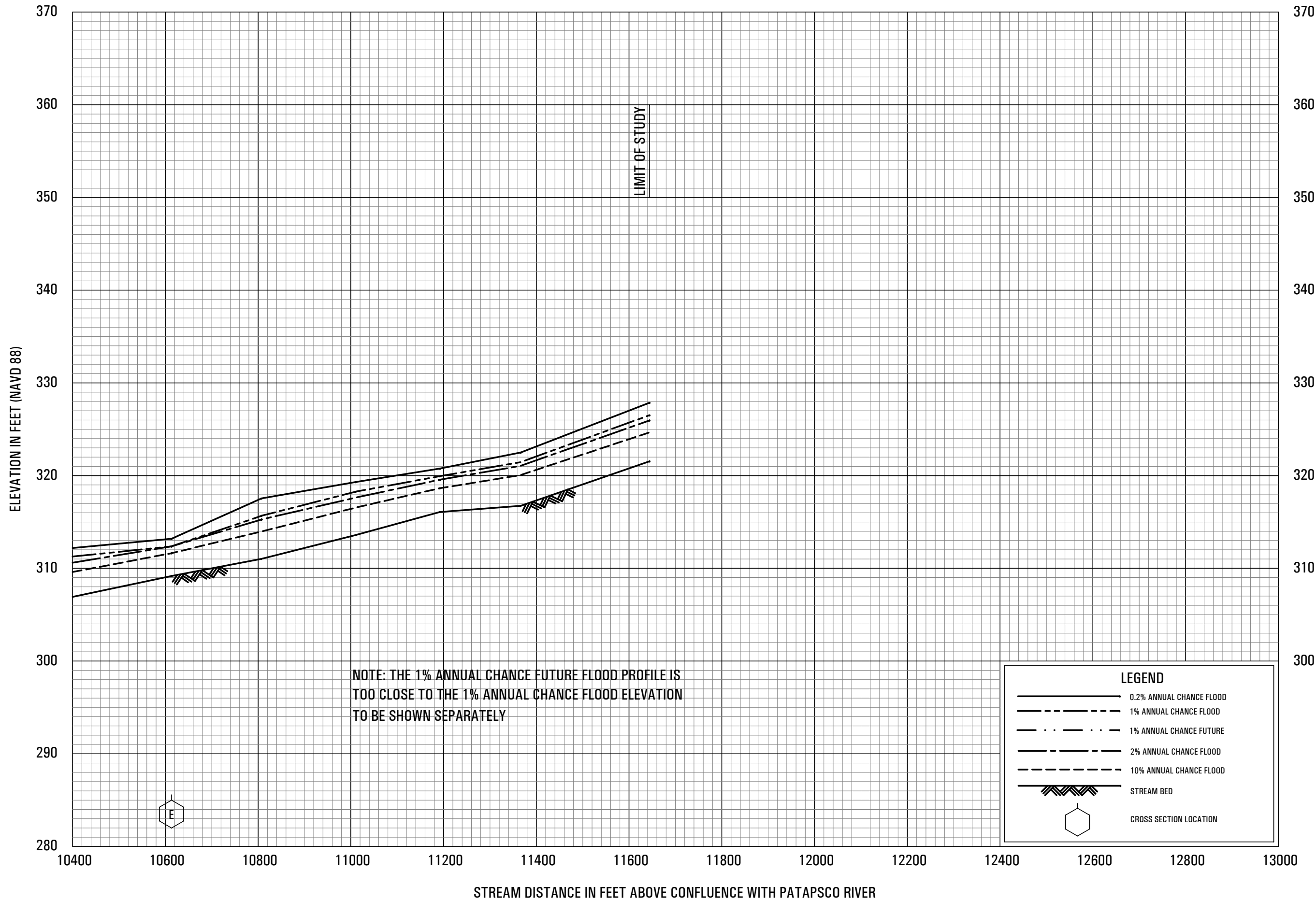
FLOOD PROFILES
TIBER-HUDSON BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS



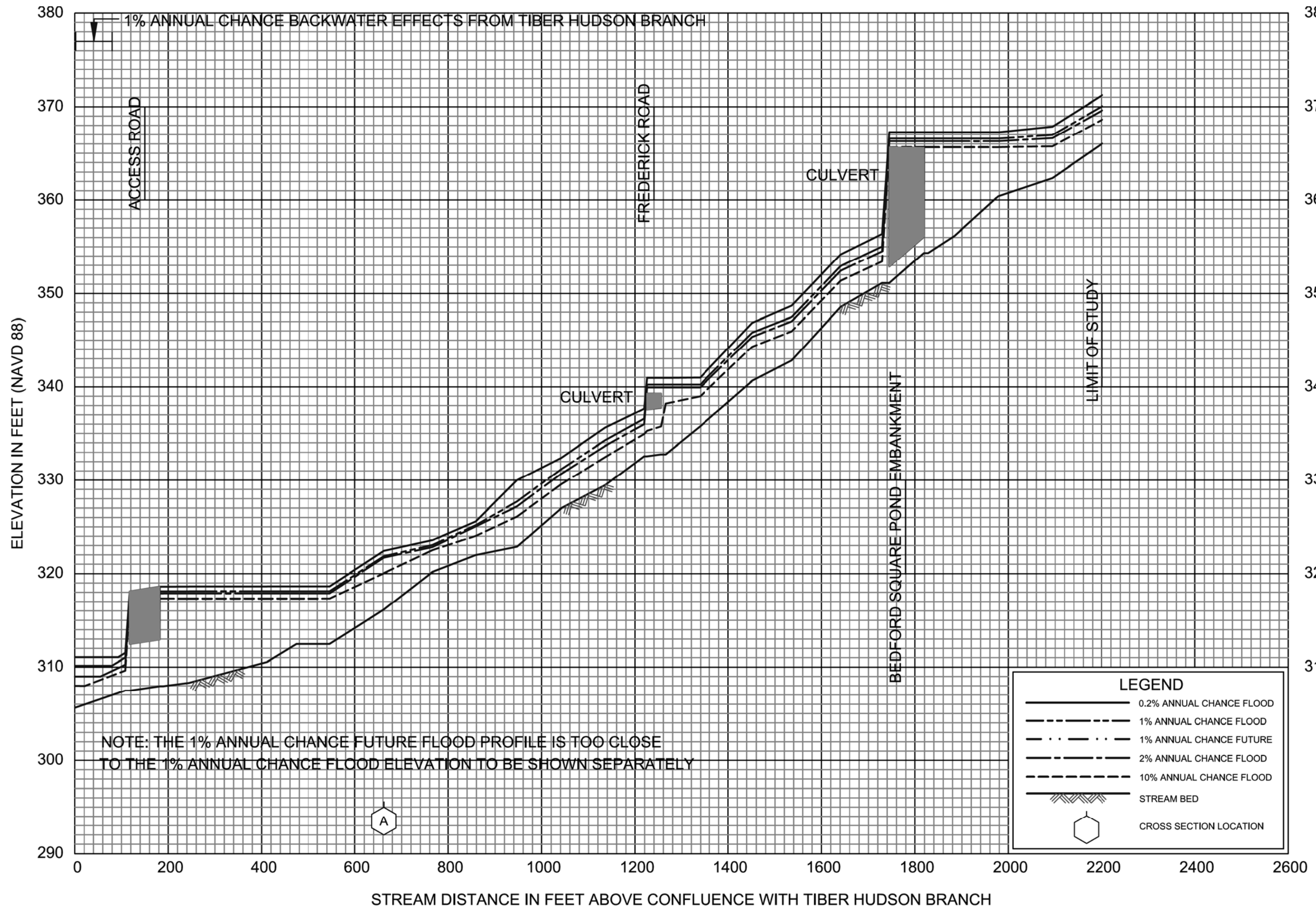
FLOOD PROFILES
TIBER-HUDSON BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS



FLOOD PROFILES
TIBER-HUDSON BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS



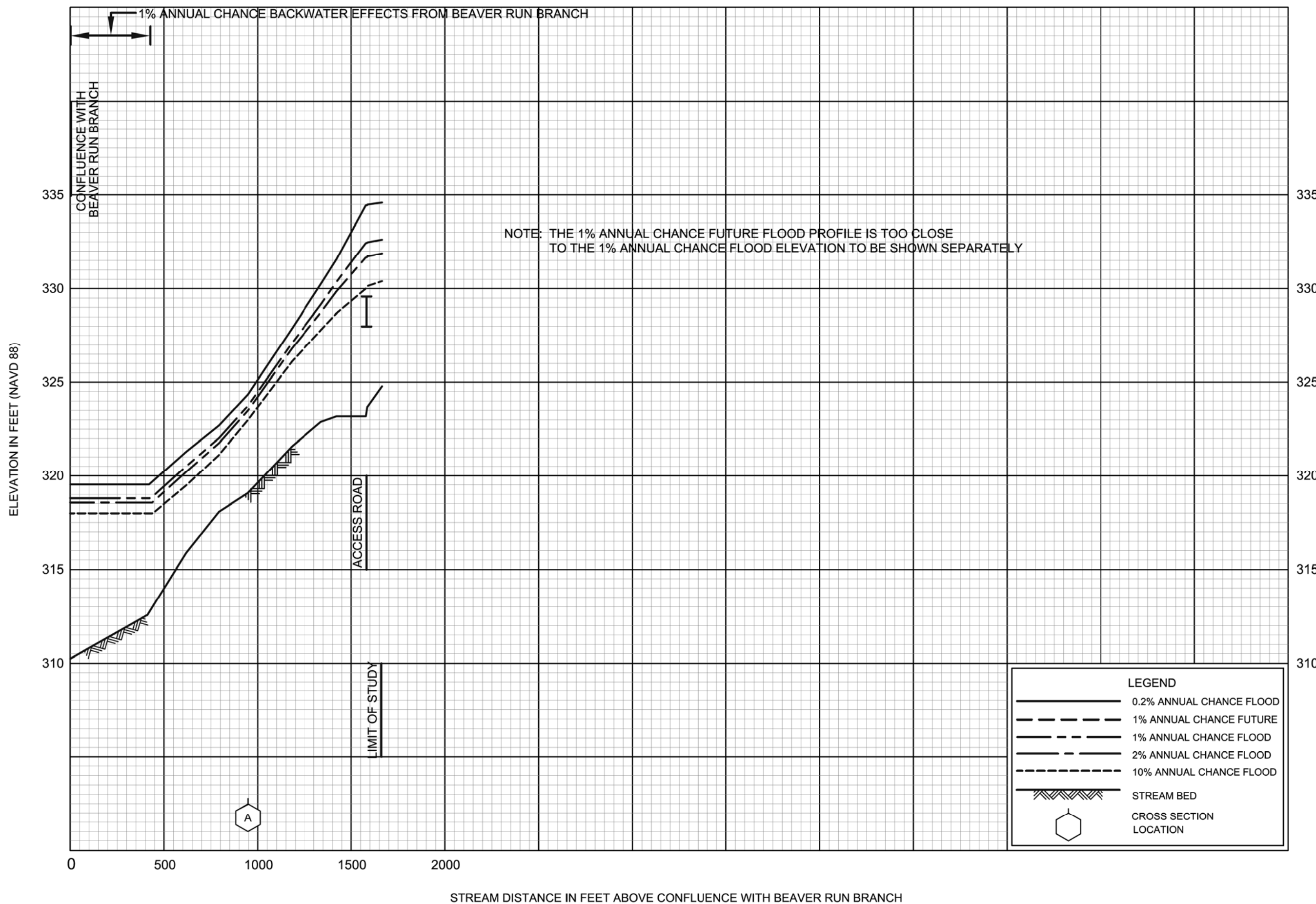
FLOOD PROFILES

TIBER HUDSON TRIBUTARY

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS

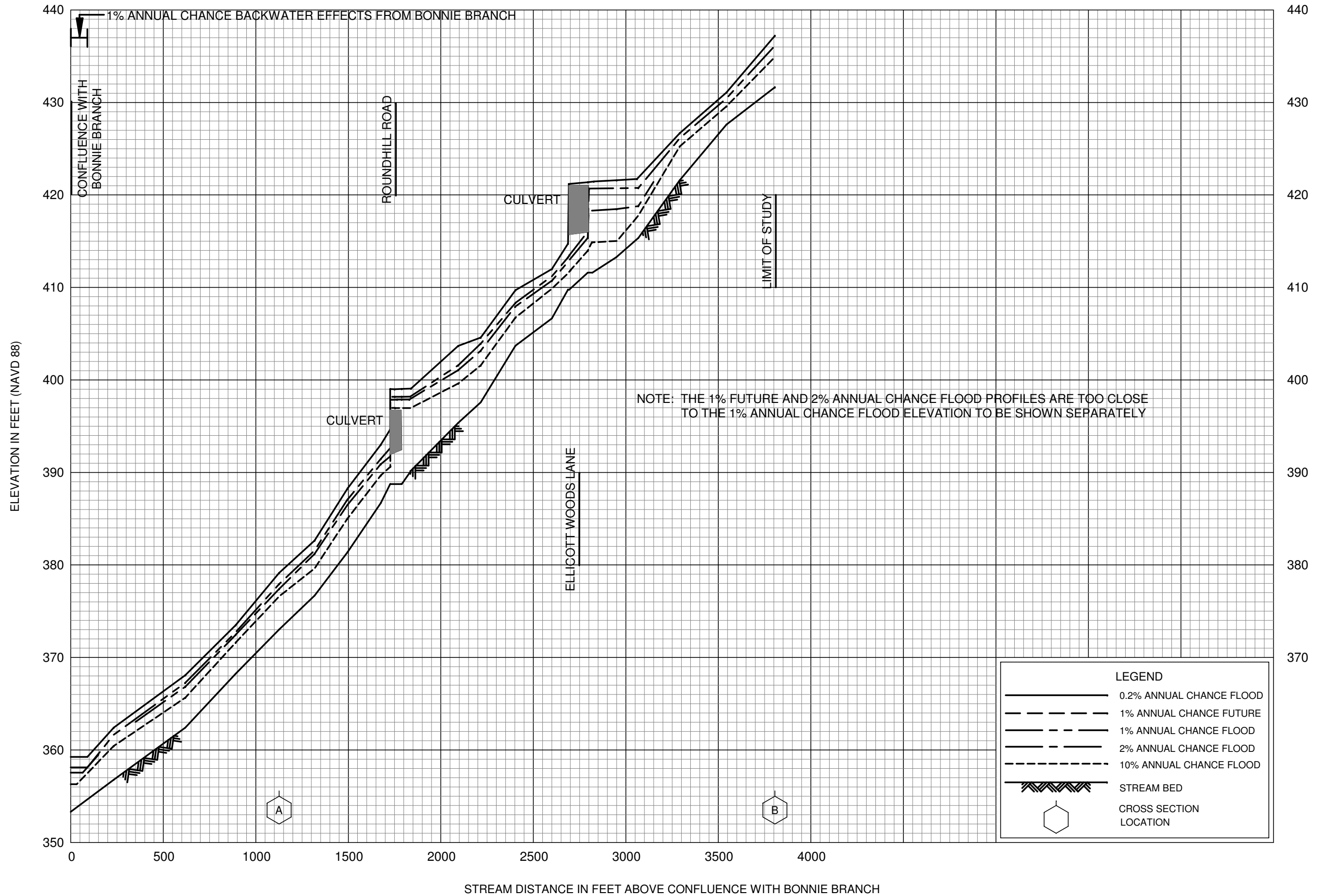


FLOOD PROFILES

TRIBUTARY TO BEAVER RUN BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS

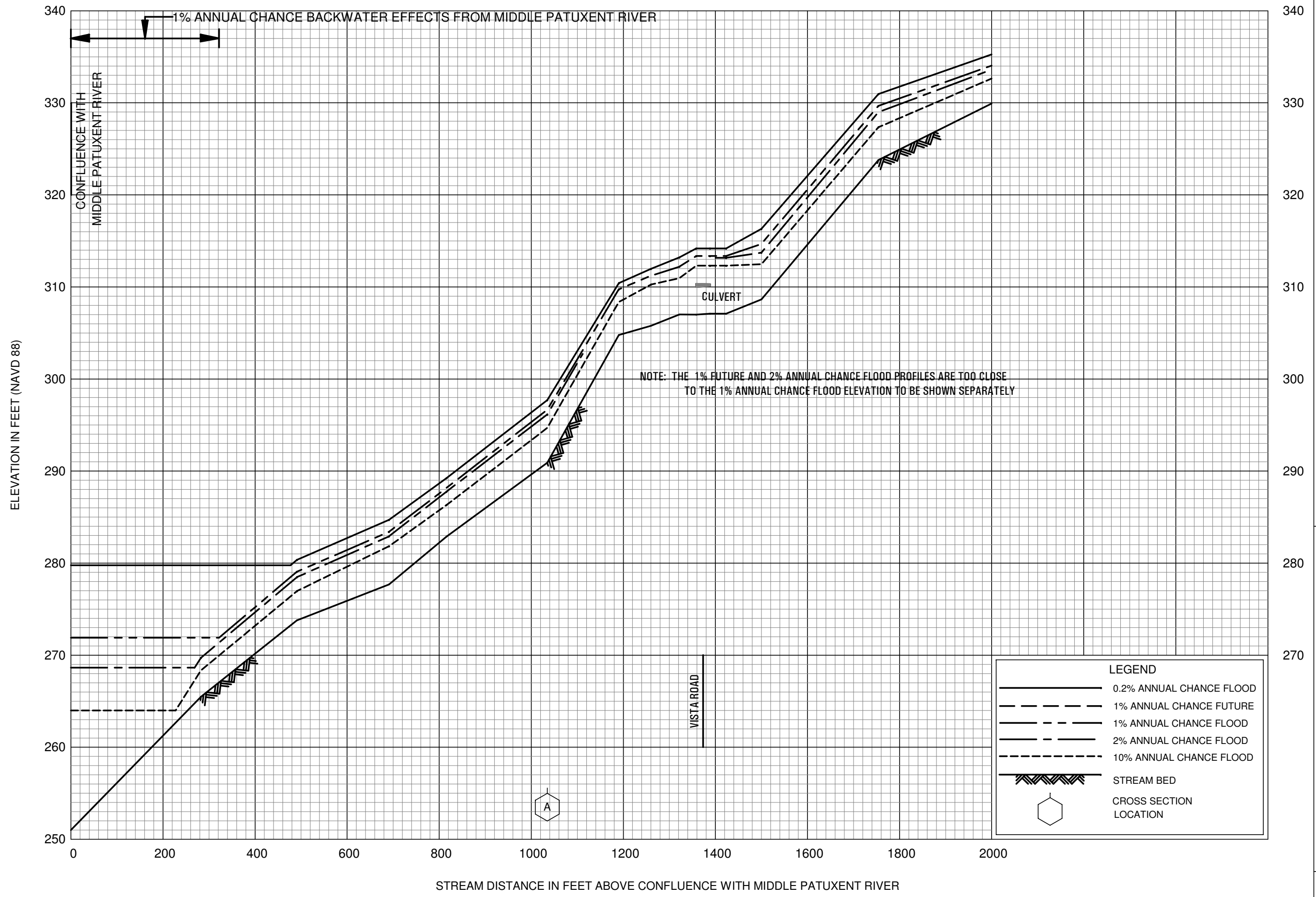


FLOOD PROFILES

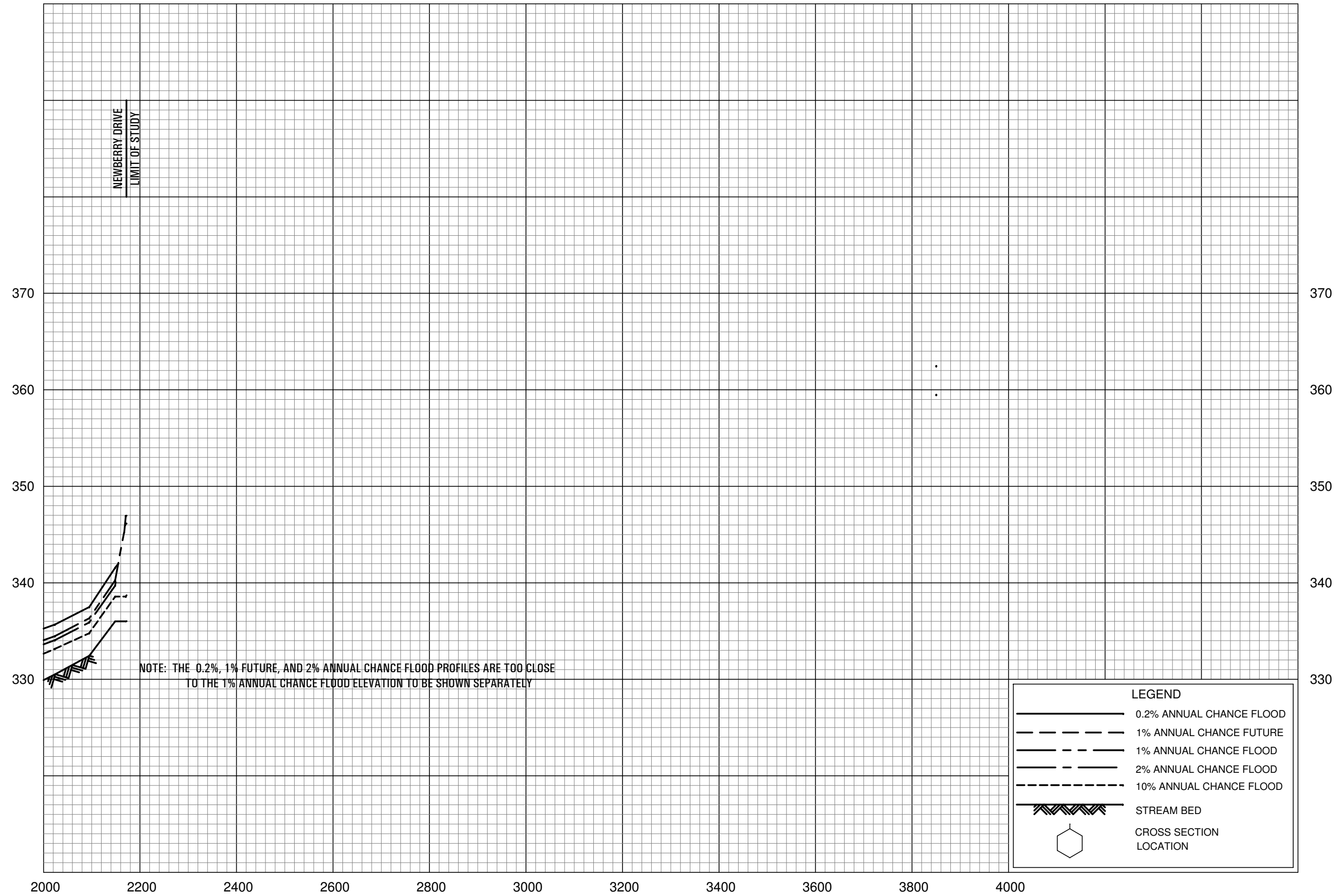
TRIBUTARY TO BONNIE BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD
AND INCORPORATED AREAS



ELEVATION IN FEET (NAVD 88)



NEWBERRY DRIVE
LIMIT OF STUDY

NOTE: THE 0.2%, 1% FUTURE, AND 2% ANNUAL CHANCE FLOOD PROFILES ARE TOO CLOSE TO THE 1% ANNUAL CHANCE FLOOD ELEVATION TO BE SHOWN SEPARATELY

LEGEND

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

2000 2200 2400 2600 2800 3000 3200 3400 3600 3800 4000

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH MIDDLE PATUXENT RIVER

370
360
350
340
330

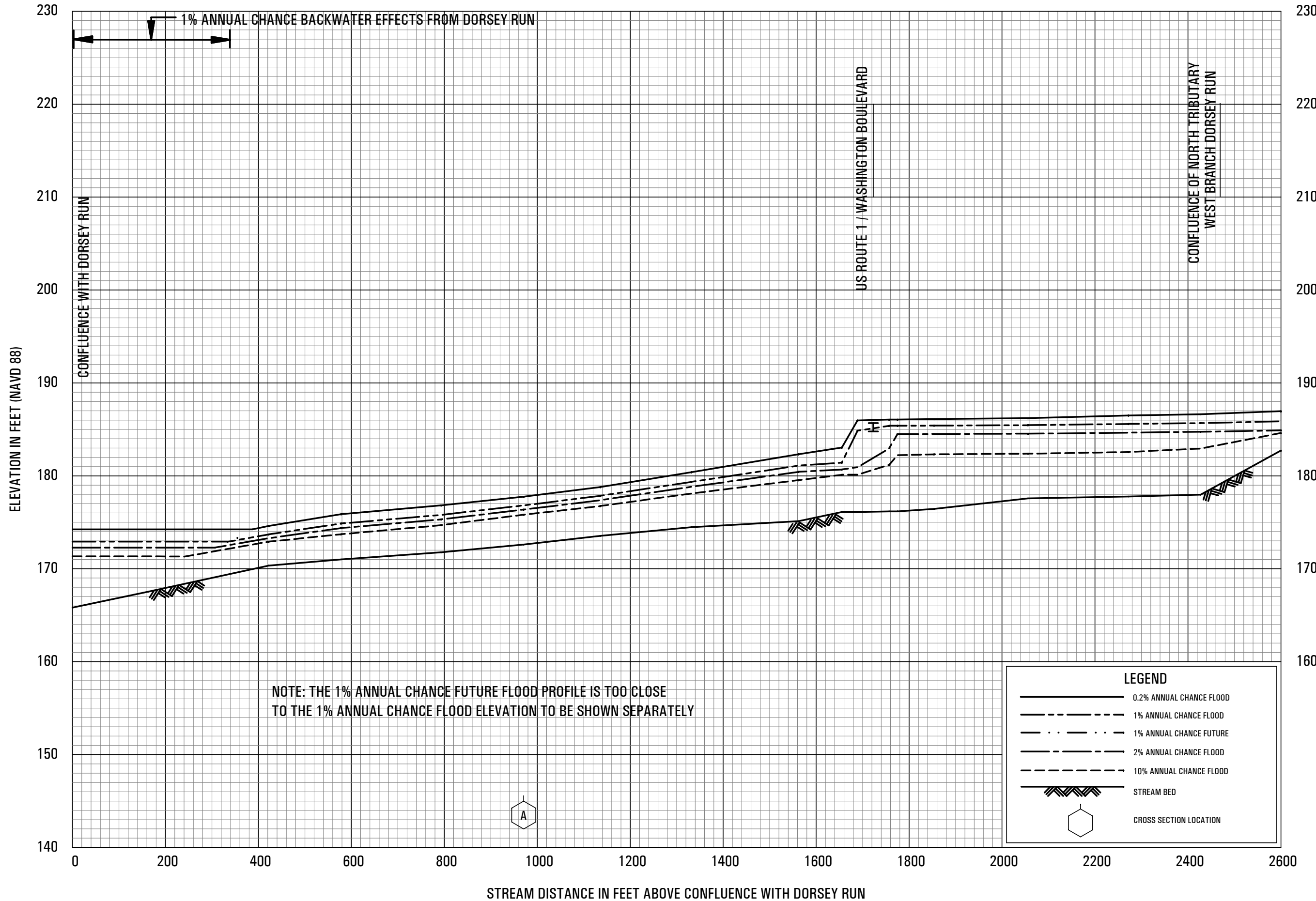
FLOOD PROFILES

VISTA ROAD TRIBUTARY

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

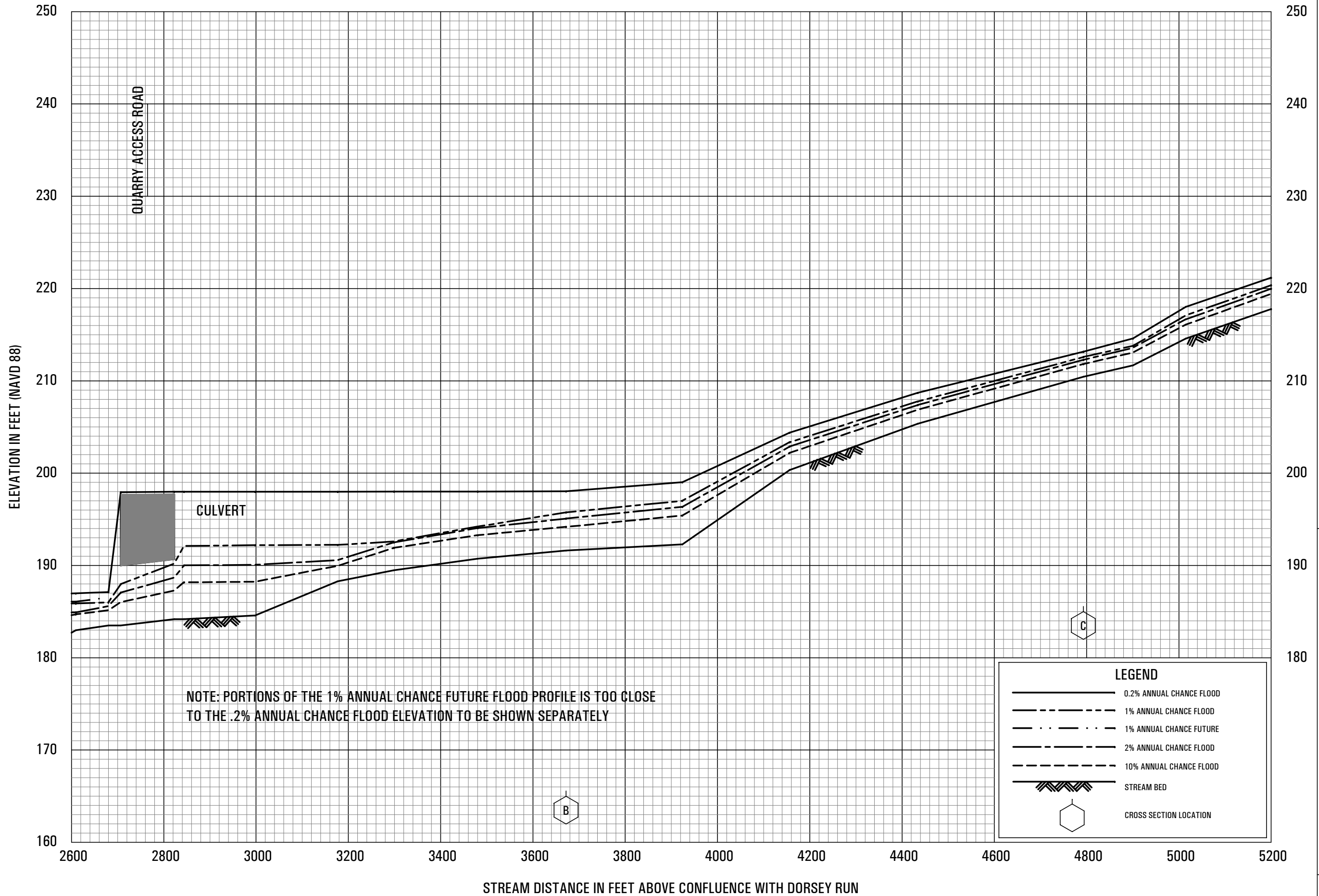
AND INCORPORATED AREAS



FLOOD PROFILES

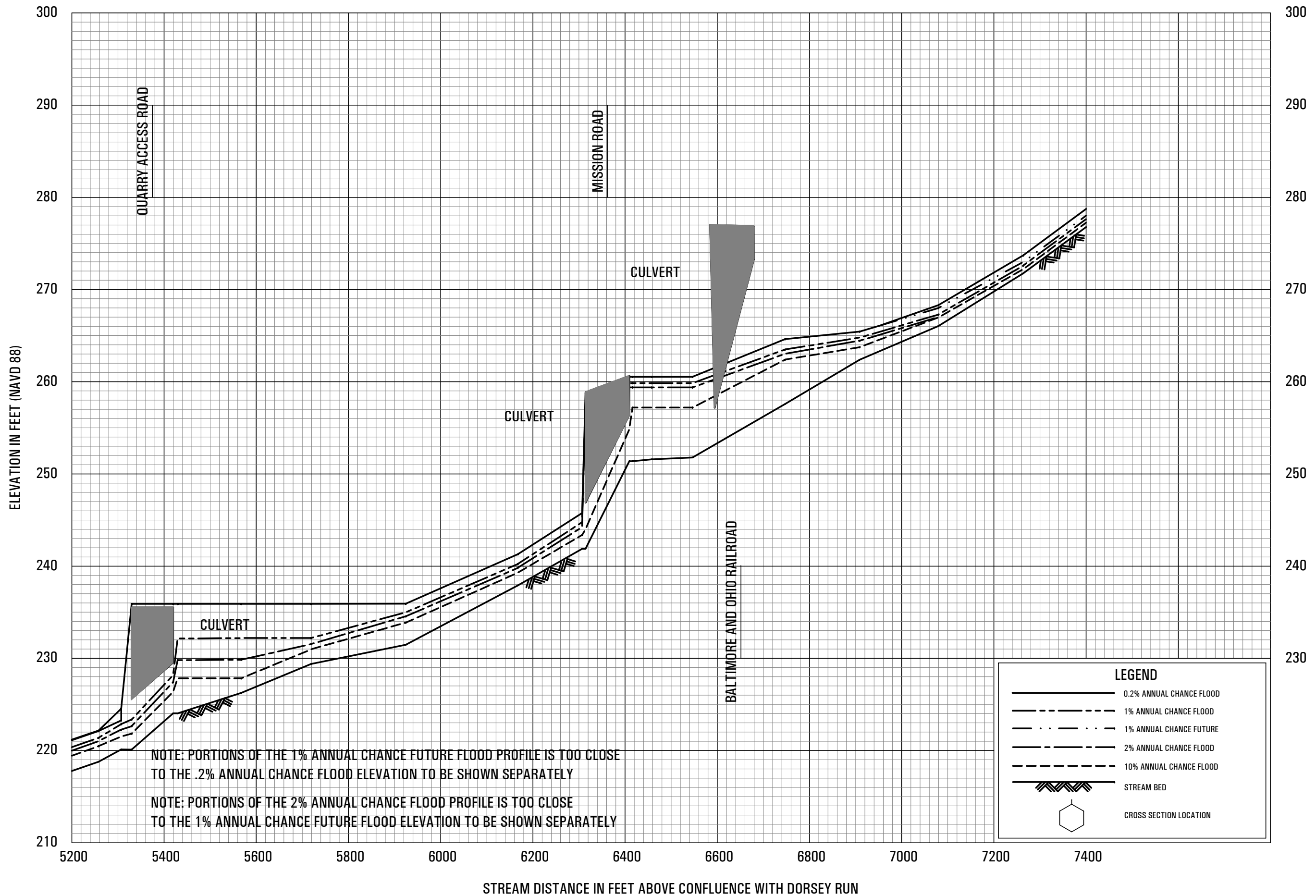
WEST BRANCH DORSEY RUN

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
 AND INCORPORATED AREAS



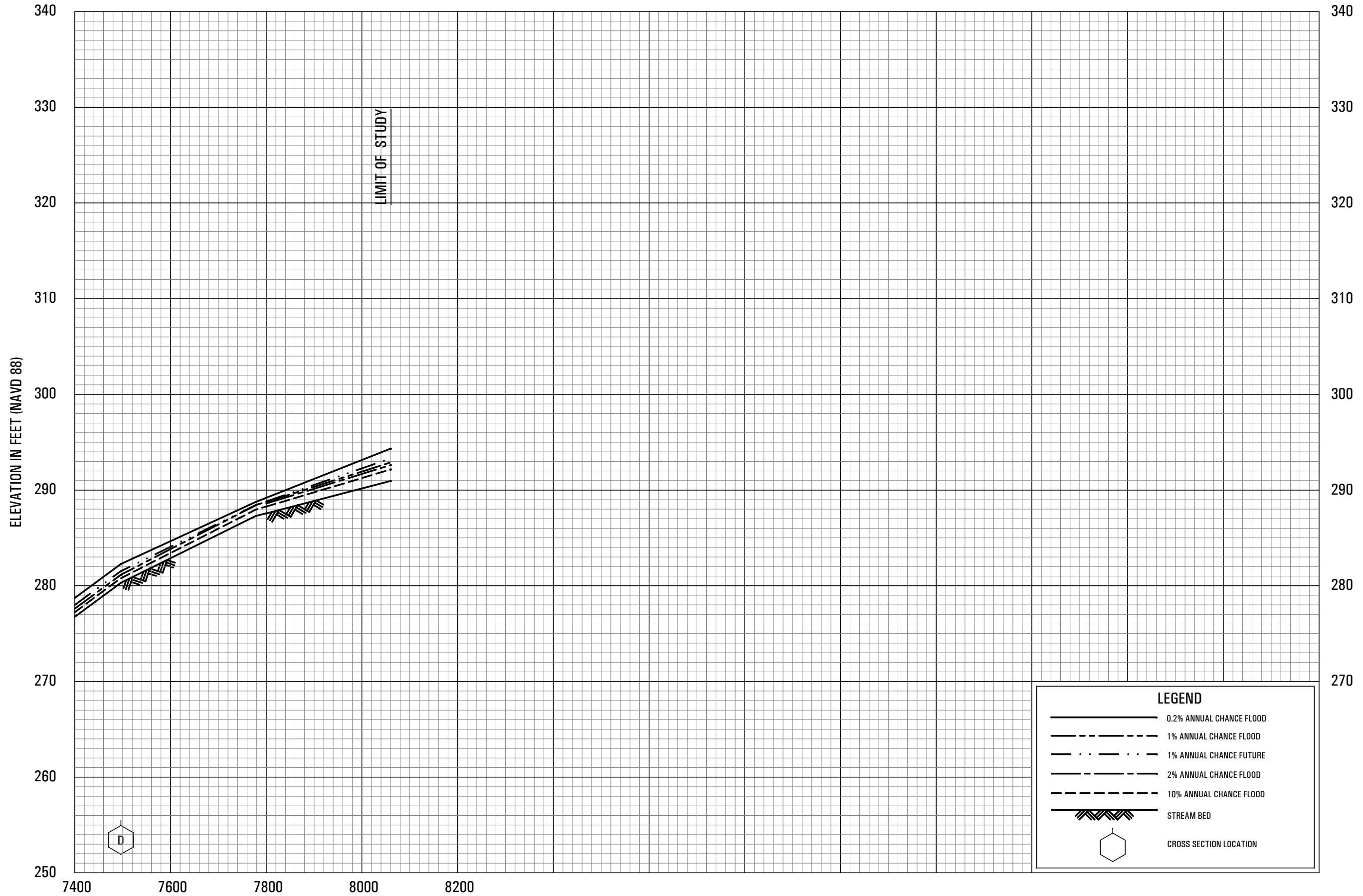
FLOOD PROFILES
WEST BRANCH DORSEY RUN

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
AND INCORPORATED AREAS



FLOOD PROFILES
WEST BRANCH DORSEY RUN

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
 AND INCORPORATED AREAS



LEGEND

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

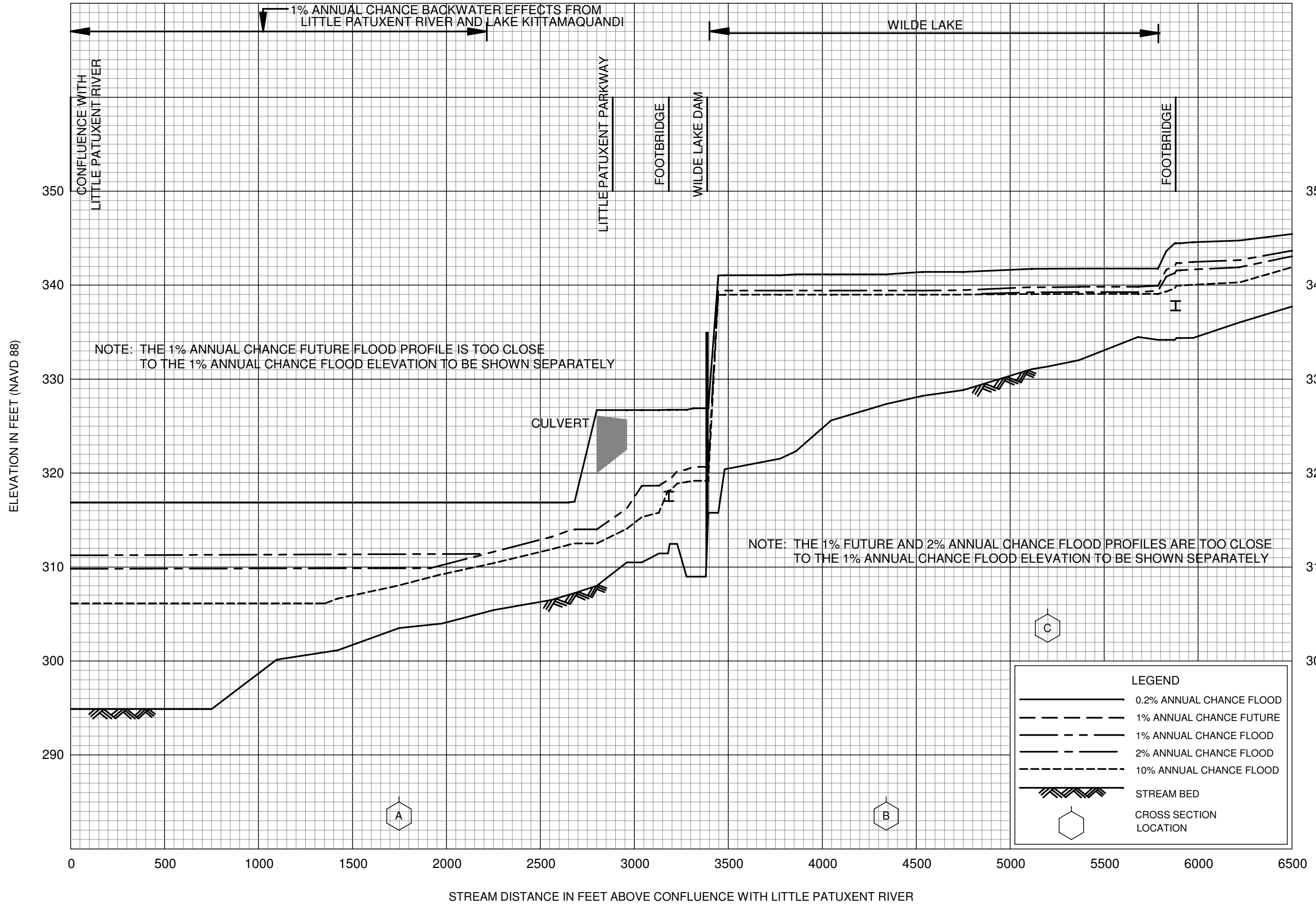
FLOOD PROFILES

WEST BRANCH DORSEY RUN

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS



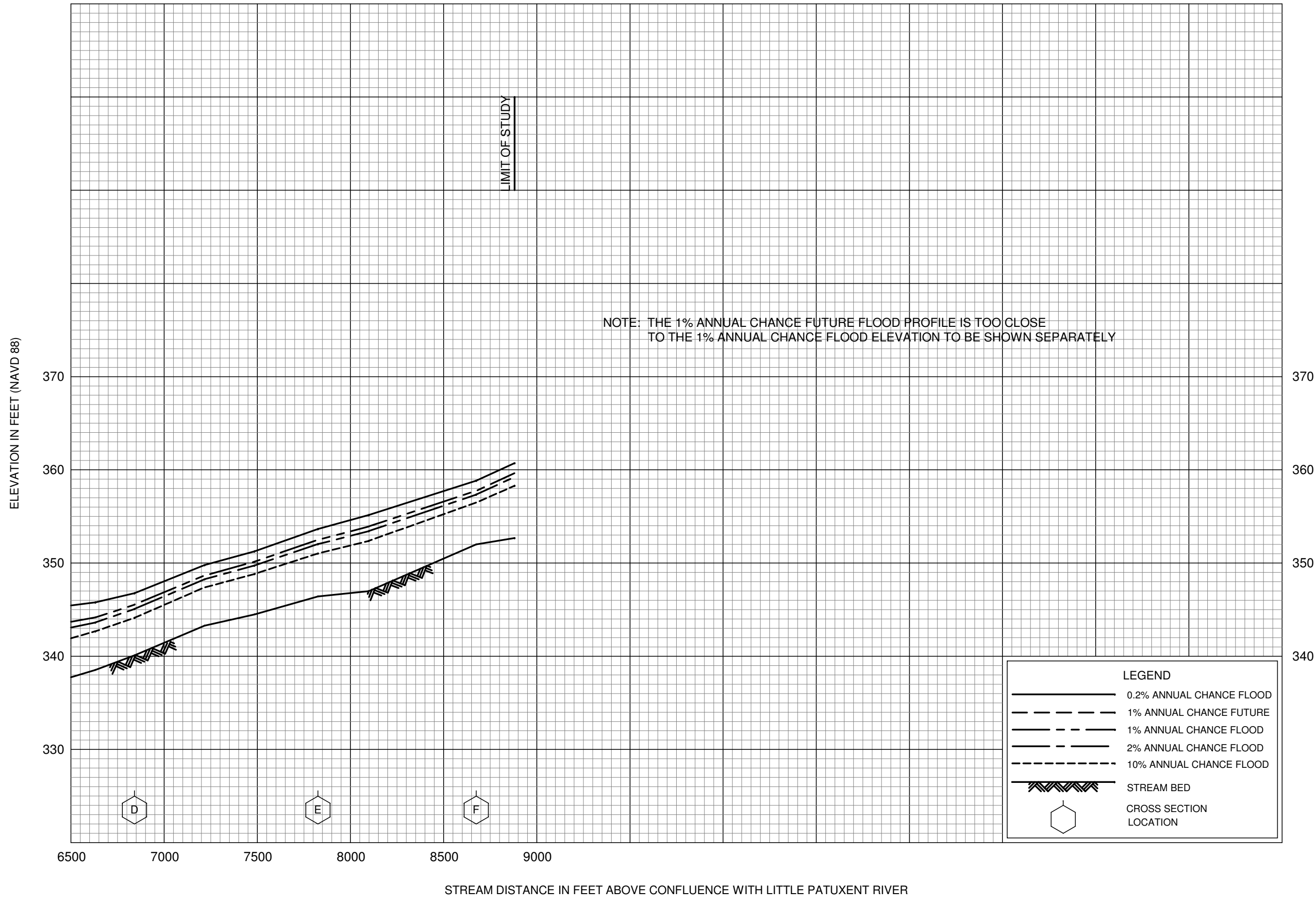
FLOOD PROFILES

WILDE LAKE BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

HOWARD COUNTY, MD

AND INCORPORATED AREAS



FLOOD PROFILES
WILDE LAKE BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY
HOWARD COUNTY, MD
 AND INCORPORATED AREAS