FLOOD INSURANCE STUDY

EL PASO COUNTY, TEXAS

AND INCORPORATED AREAS
VOLUME 3 OF 3

COMMUNITY NAME	COMMUNITY NUMBER
ANTHONY, TOWN OF	480804
CLINT, TOWN OF	481260
EL PASO, CITY OF	480214
EL PASO COUNTY (UNINCORPORATED AREAS)	480212
HORIZON CITY, TOWN OF*	480322
SAN ELIZARIO, CITY OF	480561
SOCORRO, CITY OF	481658
VINTON, VILLAGE OF	481557
YSLETA DEL SUR PUEBLO	480663

* No Special Flood Hazards Areas Identified

EFFECTIVE:
REVISED PRELIMINARY OCTOBER 24, 2014

Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
48141CV003A

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 may not contain all data available within the repository. It is advisable to contact the community repository for any additional data.

Selected Flood Insurance Rate Map (FIRM) panels for this community contain information that was previously shown separately on the corresponding Flood Boundary and Floodway Map panels (e.g., floodways, cross sections). In addition, former flood hazard zone designations have been changed as follows:

Old Zone(s)	New Zone
Al through A30	AE
VI through V30	VE
B	X
C	X

Part or all of this Flood Insurance Study may be revised and republished at any time. In addition, part of this Flood Insurance Study may be revised by the Letter of Map Revision process, which does not involve republication or redistribution of the Flood Insurance Study. It is, therefore, the responsibility of the user to consult with community officials and to check the community repository to obtain the most current Flood Insurance Study components.

ATTENTION: On FIRM panels 0175, 0180, 0186, 0188, 0189, 0332, 0351, 0352, 0353, 0354, 0358, 0362, 0366, 0367, 0369, 0388, 0389, 0393, 0394, 0413, 0501, 0506, 0507, 0526, 0527, 0528, 0529, 0533, 0536, 0537, 0539, 0541, 0542, 0543, 0544, 0563, 0631, 0632, 0650, 0651, 0652, 0653, 0654, 0675, 0750, 0775, and 0800 the International Boundary Water Commission (IBWC) levees along the Rio Grande have not been demonstrated by the community or levee owner(s) to meet the requirements of Section 65.10 of the NFIP regulations in 44 CFR as it relates to the levee's capacity to provide 1-percent annual chance flood protection. The subject areas are identified on FIRM panels (with notes and bounding lines) and in the FIS report as potential areas of flood hazard data changes based on further review.

FEMA has updated levee analysis and mapping protocols. Until such time as FEMA is able to initiate a new flood risk project to apply the new protocols, the flood hazard information on the aforementioned FIRM panel(s) that are affected by the IBWC levees along the Rio Grande are being added as a snapshot of the prior effective information presented on the FIRMs and FIS reports dated February 16, 2006 for the City of El Paso; August 1, 1987 for the Town of Anthony; July 1, 1987 for the Town of Clint; June 24, 1980 for the Village of Vinton; and September 4, 1991 for the unincorporated areas of El Paso County. As indicated above, it is expected that affected flood hazard data within the subject area could be significantly revised. This may result in floodplain boundary changes, 1-percent annual chance flood elevation changes, and/or changes to flood hazard zone designations.

The effective FIRM panels (and the FIS) will again be revised to update the flood hazard information associated with the IBWC levees along the Rio Grande when FEMA is able to initiate and complete a new flood risk project to apply the new protocols.

Initial Countywide FIS Effective Date:

TABLE OF CONTENTS - VOLUME 1

Page

1.0 INTRODUCTION 1

1.1 Purpose of Study 1

1.2 Authority and Acknowledgments 1

1.3 Coordination 3

2.0 AREA STUDIED 4

2.1 Scope of Study 4

2.2 Community Description 8

2.3 Principal Flood Problems 10

2.4 Flood Protection Measures 11

3.0 ENGINEERING METHODS 14

3.1 Hydrologic Analyses 14

3.1.1 New Detailed Study Streams and Enhanced Approximate Type 1 Streams 32

3.1.2 Flow Path No. 28 (Mesa Drain and Interceptor), Flow Path No. 29, Flow Path No. 30, Flow Path No. 32 and Flow Path No. 33 (Middle Drain) Revision 33

3.1.3 Redelineation MHIP Case 1 35

3.2 Hydraulics Analyses 36

3.2.1 Detailed and Enhanced Approximate Type 1 Study Streams 37

3.1.2 Flow Path No. 28 (Mesa Drain and Interceptor), Flow Path No. 29, Flow Path No. 30, Flow Path No. 32 and Flow Path No. 33 (Middle Drain) Revision 39

3.2.3 Redelineation MHIP Case 1 Study Streams 41

3.3 Vertical Datum 45

3.4 Refinement 46

4.0 FLOODPLAIN MANAGEMENT APPLICATIONS 46

4.1 Floodplain Boundaries 46

4.2 Floodways 47

5.0 INSURANCE APPLICATION 54

6.0 FLOOD INSURANCE RATE MAP 55

7.0 OTHER STUDIES 55

8.0 LOCATION OF DATA 57

TABLE OF CONTENTS - VOLUME 1 - continued

FIGURES

Page

Figure 1: Floodway Schematic 54

TABLES

Table 1: Initial and Final CCO Meetings 3
Table 2: Scope of Study 4
Table 3: Stream Name Changes 7
Table 4: Letters of Map Changes 8
Table 5: Flood Control Data of Structures 12
Table 6: Summary of Discharges 15
Table 7: Summary of Ponding Values 29
Table 8: Summary of Stillwater Elevations 30
Table 9: Stream Hydrologic Methods Used 33
Table 10: Stream Hydraulic Methodology 38
Table 11: Manning's Roughness Coefficients 38
Table 12: Floodway Data Table 48
Table 13: Community Map History Table 56

EXHIBITS

EXHIBIT 1 – Flood Profiles

Arroyo 1	Panels	01P-05P
Arroyo 1A	Panels	06P-10P
Arroyo 2	Panels	11P-21P
Arroyo 3	Panels	22P-32P

TABLE OF CONTENTS - VOLUME 2

EXHIBITS

EXHIBIT 1 – Flood Profiles

Arroyo 3A	Panel	33P
Arroyo 3B	Panels	34P-36P
Arroyo 4	Panels	37P-43P
Arroyo 5	Panel	44P
Arroyo 8	Panel	45P
Flow Path No. 11	Panels	46P-48P
Flow Path No. 12	Panel	49P

TABLE OF CONTENTS - VOLUME 2 - CONTINUED

EXHIBITS - continued

Flow Path No. 12A	Panel	50P
Flow Path No. 13 (Drainage Channel No. 1)	Panel	51P
Flow Path No. 14 (Drainage Channel No. 2)	Panels	52P-53P
Flow Path No. 16	Panels	54P-58P
Flow Path No. 20	Panels	59P-60P
Flow Path No. 20A	Panel	61P
Flow Path No. 21	Panel	62P
Flow Path No. 21A	Panels	63P-64P
Flow Path No. 22	Panels	65P-66P
Flow Path No. 23	Panel	67P
Flow Path No. 24 (Government Hills Channel)	Panels	68P-70P
Flow Path No. 25	Panel	71P
Flow Path No. 26 (Phelps Dodge)	Panels	72P-73P
Flow Path No. 27 (Playa Drain)	Panels	74P-82P
Flow Path No. 28 (Mesa Drain and Interceptor)	Panels	83P-92P
Flow Path No. 28A (Below Mesa Drain and Interceptor)	Panel	93P
Flow Path No. 29	Panels	94P-95P
Flow Path No. 30	Panel	96P
Flow Path No. 31 (Jesuit Draw)	Panel	97P
Flow Path No. 32	Panel	98P
Flow Path No. 32A	Panel	99P
Flow Path No. 33 (Middle Drain)	Panels	100P-101P
Flow Path No. 36	Panel	102P
Flow Path No. 37	Panel	103P
Shallow Flooding Along Franklin Drain	Panel	104P
Flow Path No. 38	Panels	105P-107P
Flow Path No. 38A	Panels	108P-112P
Flow Path No. 38B	Panels	113P-115P
Flow Path No. 39	Panels	116P-118P
Flow Path No. 40	Panels	119P-121P
Flow Path No. 41	Panels	122P-125P

Table of Contents - Volume 3

EXHIBITS - continued

Flow Path No. 41A	Panel	126P
Flow Path No. 42	Panels	127P-130P
Flow Path No. 42A	Panel	131P
Flow Path No. 43	Panels	132P-140P
Flow Path No. 44	Panels	141P-149P
Flow Path No. 45	Panels	150P-160P
Flow Path No. 45A	Panels	161P-164P
Flow Path No. 45B	Panels	165P-168P

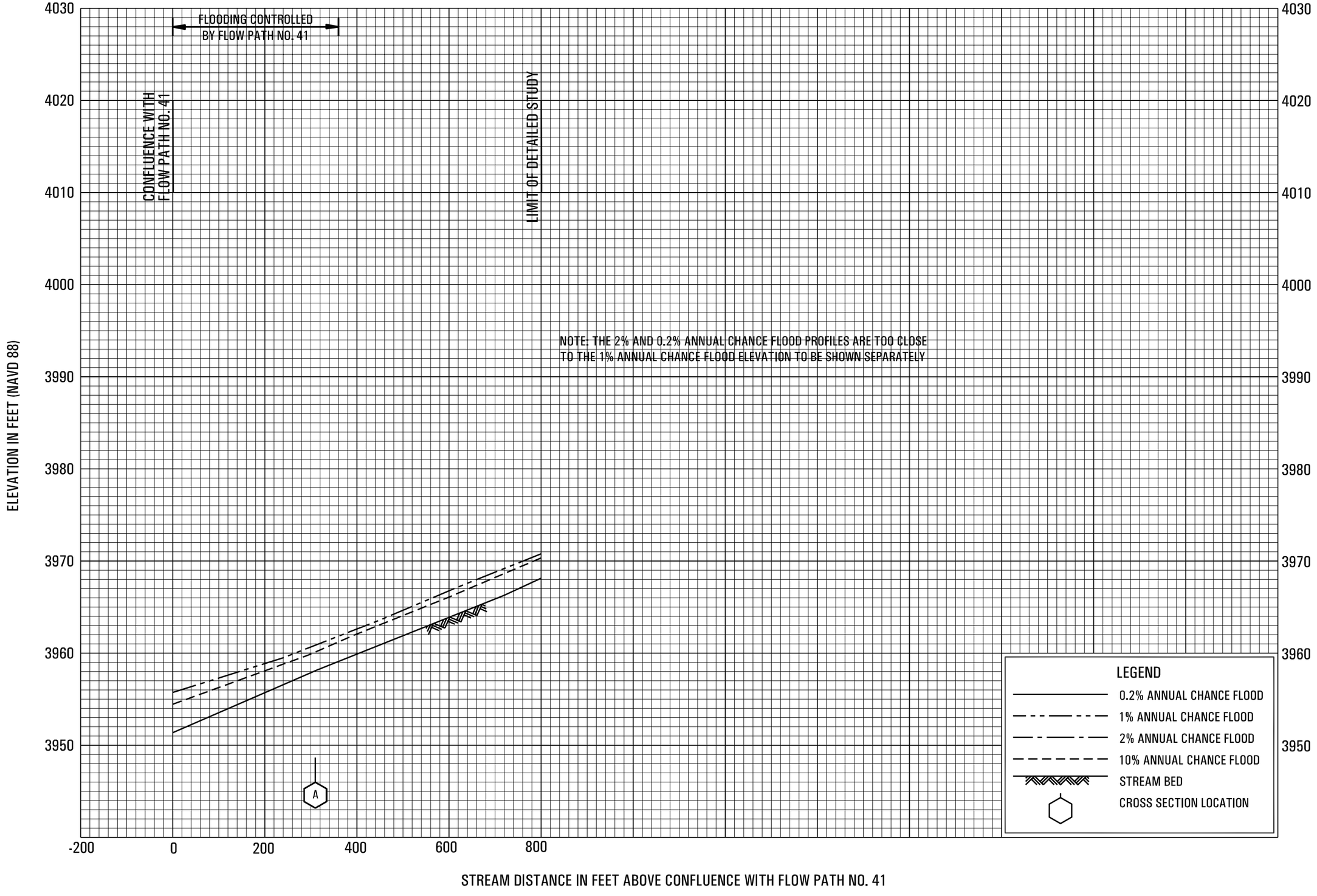
TABLE OF CONTENTS - VOLUME 3 - continued

EXHIBITS - continued

Flow Path No. 45C	Panels	169P-175P
Flow Path No. 45C Tributary 1	Panel	176P
Flow Path No. 45D	Panels	177P-179P
Flow Path No. 46	Panels	180P-183P
Flow Path No. 47	Panels	184P-189P
Flow Path No. 48	Panels	190P-193P
Flow Path No. 54	Panels	194P-195P
Horizon Arroyo (Stream 2)	Panels	196P-199P
McKelligon Canyon Arroyo (Flow Path No. 17)	Panels	200P-204P
McKelligon Canyon Arroyo Tributary 6 (Flow Path No. 17A)	Panel	205P
Range Dam Outlet Channel	Panel	206P
San Felipe Arroyo	Panels	207P-208P
Stream 3	Panels	209P-210P
Lower Valley Area	Panels	211P-213P
Upper Valley Area	Panels	214P-218P

EXHIBIT 2 – Flood Insurance Rate Map Index

Flood Insurance Rate Maps

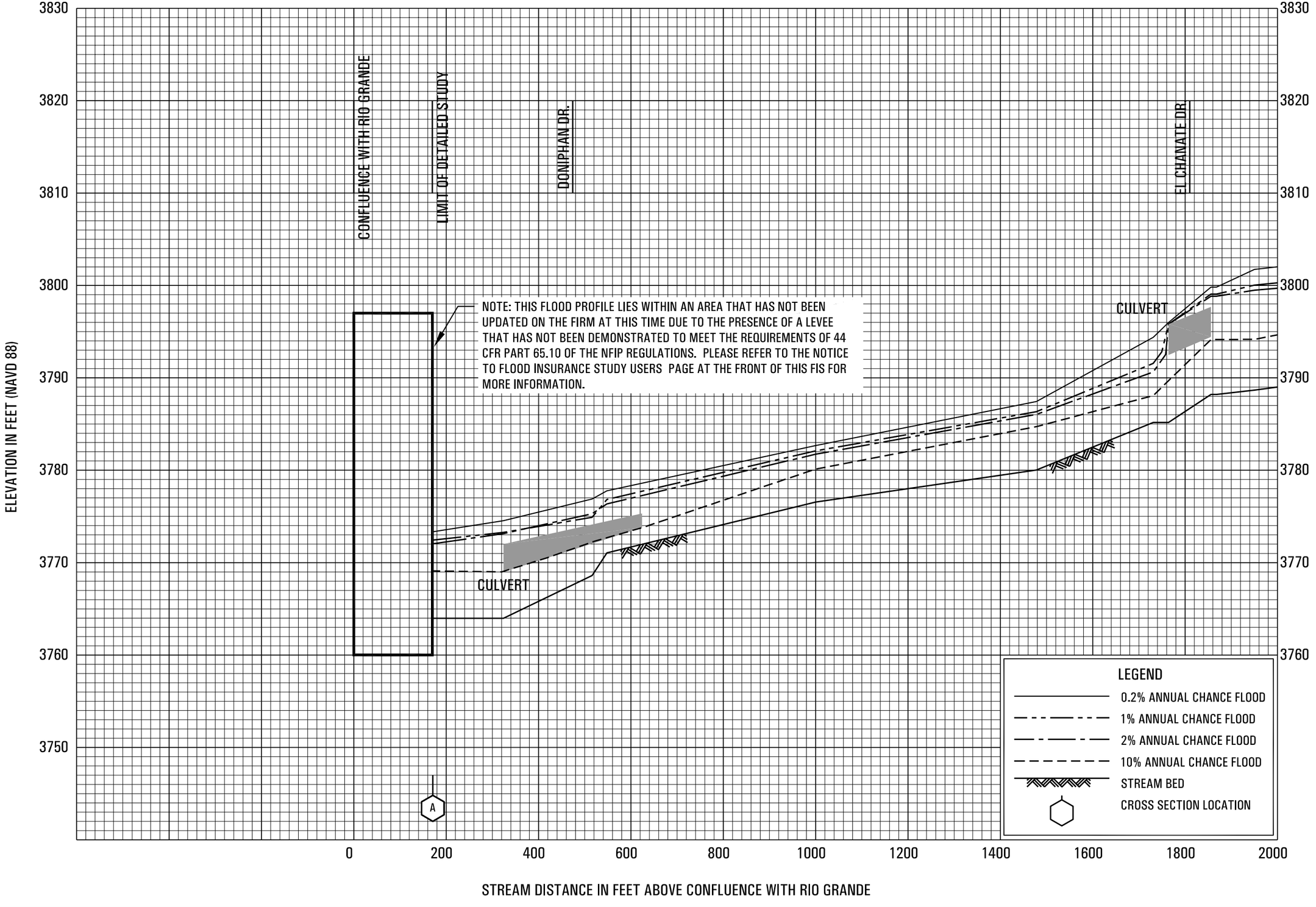


FLOOD PROFILES

FLOW PATH NO. 41A

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



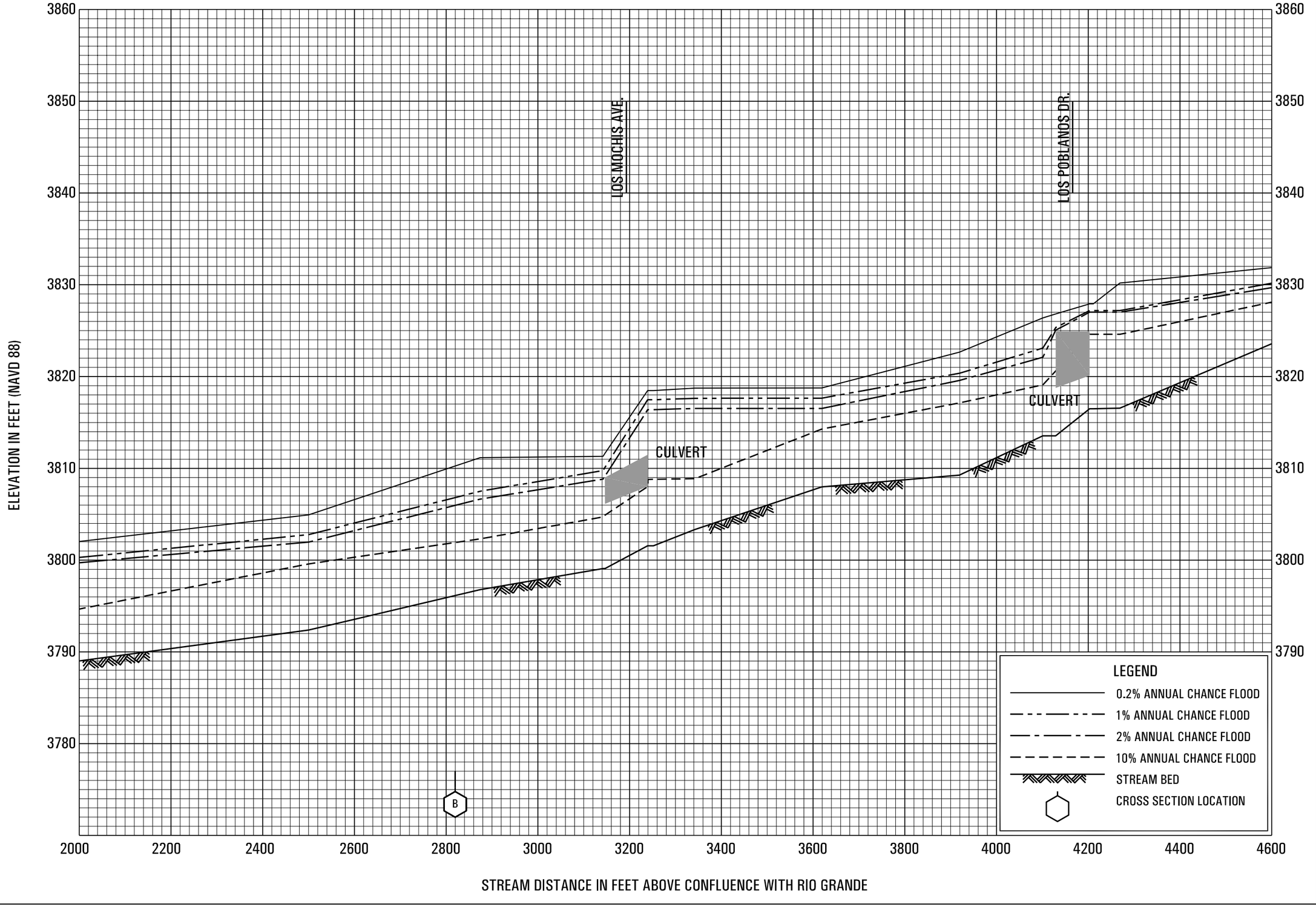
FLOOD PROFILES

FLOW PATH NO. 42

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

127P



FLOOD PROFILES

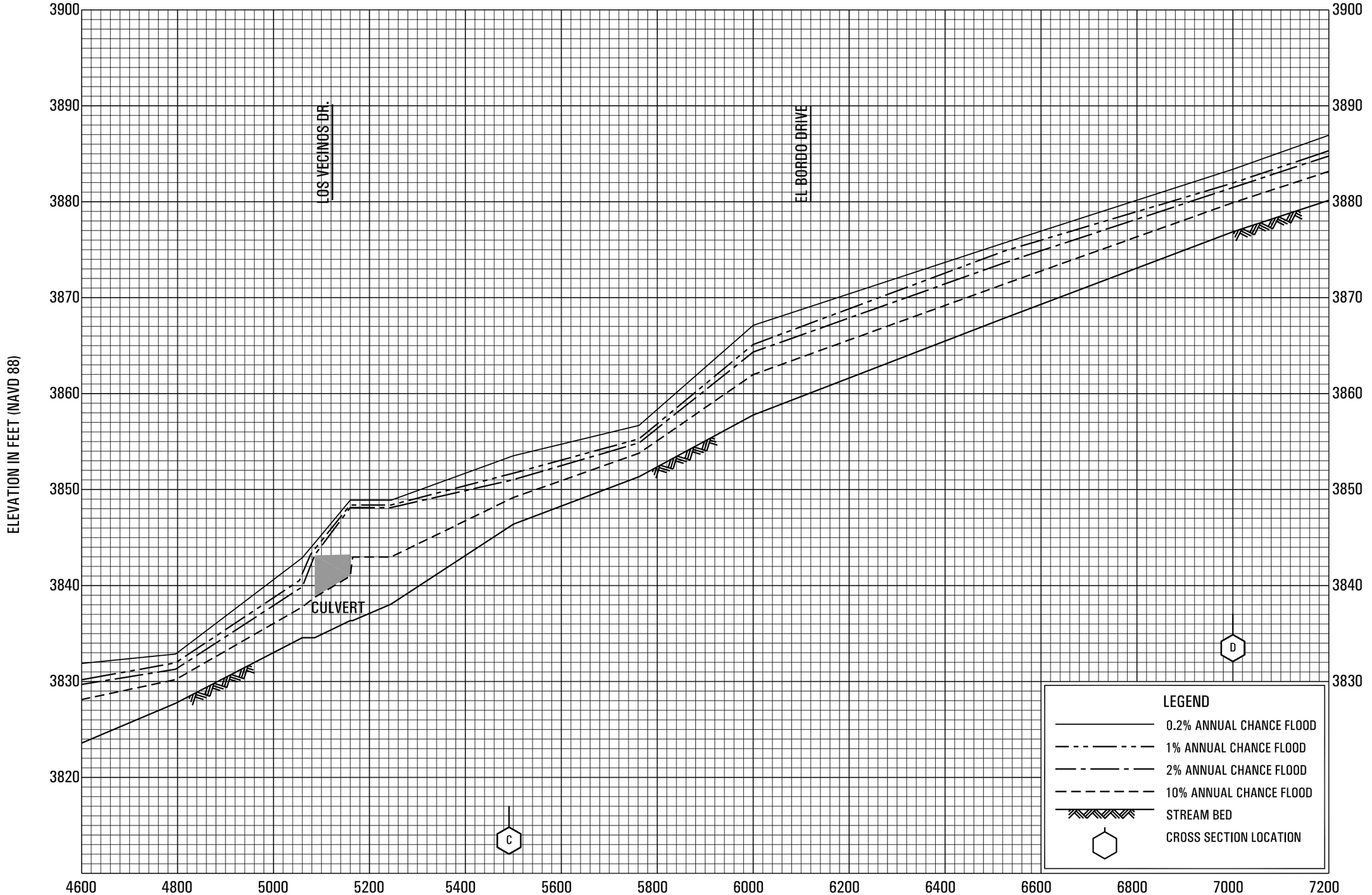
FLOW PATH NO. 42

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX

AND INCORPORATED AREAS

128P



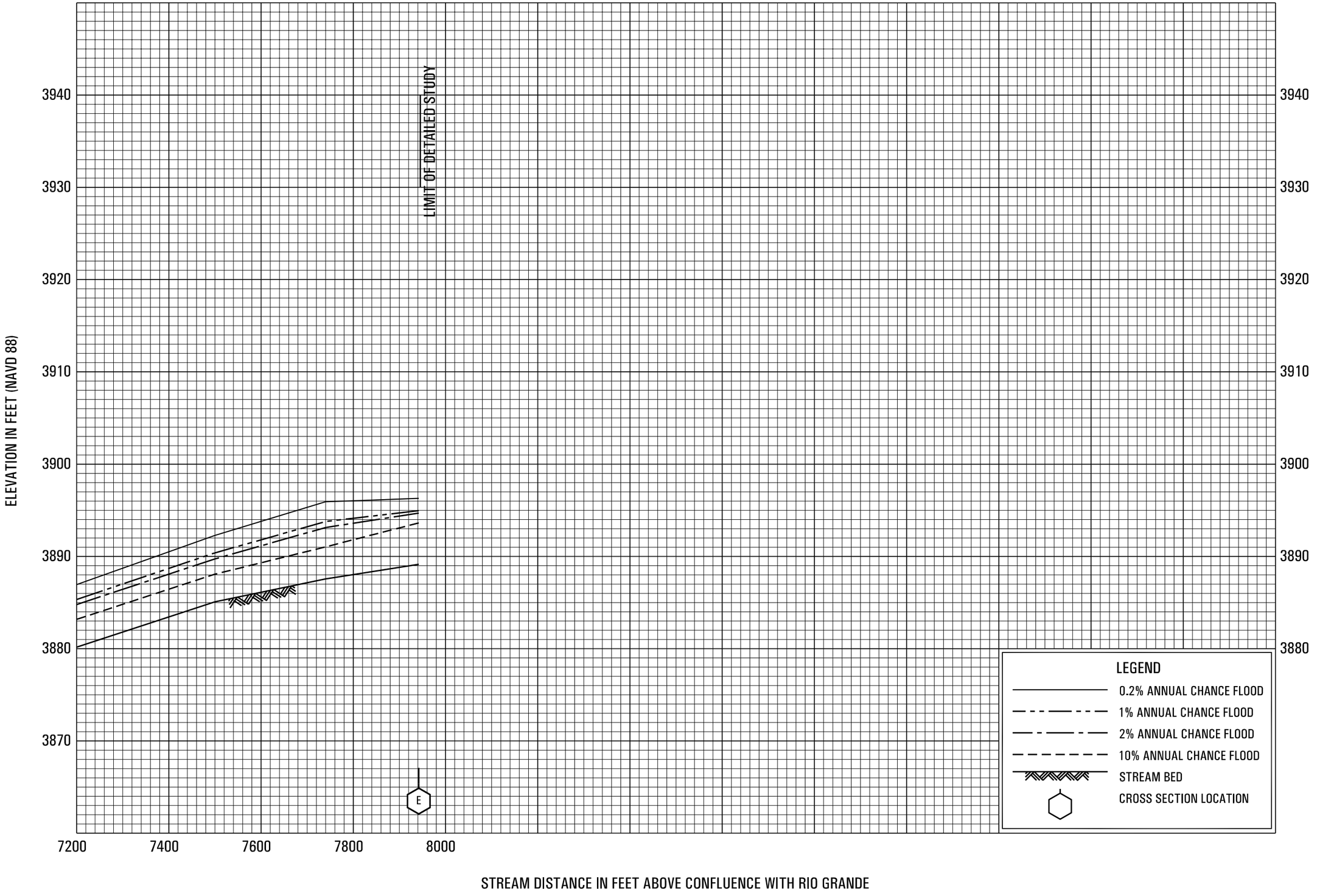
FLOOD PROFILES

FLOW PATH NO. 42

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

129P



ELEVATION IN FEET (NAVD 88)

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH RIO GRANDE

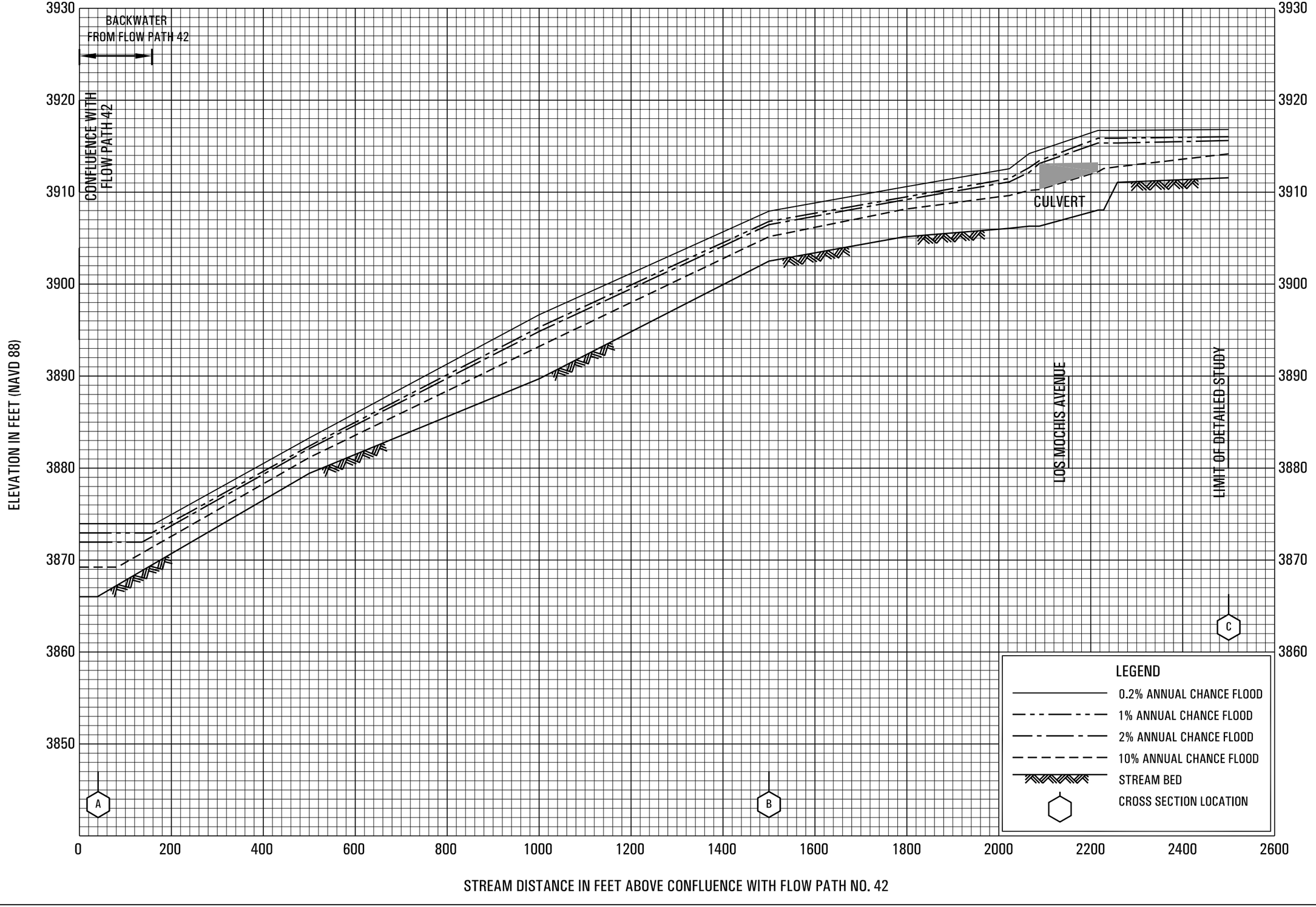
FLOOD PROFILES

FLOW PATH NO. 42

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

130P



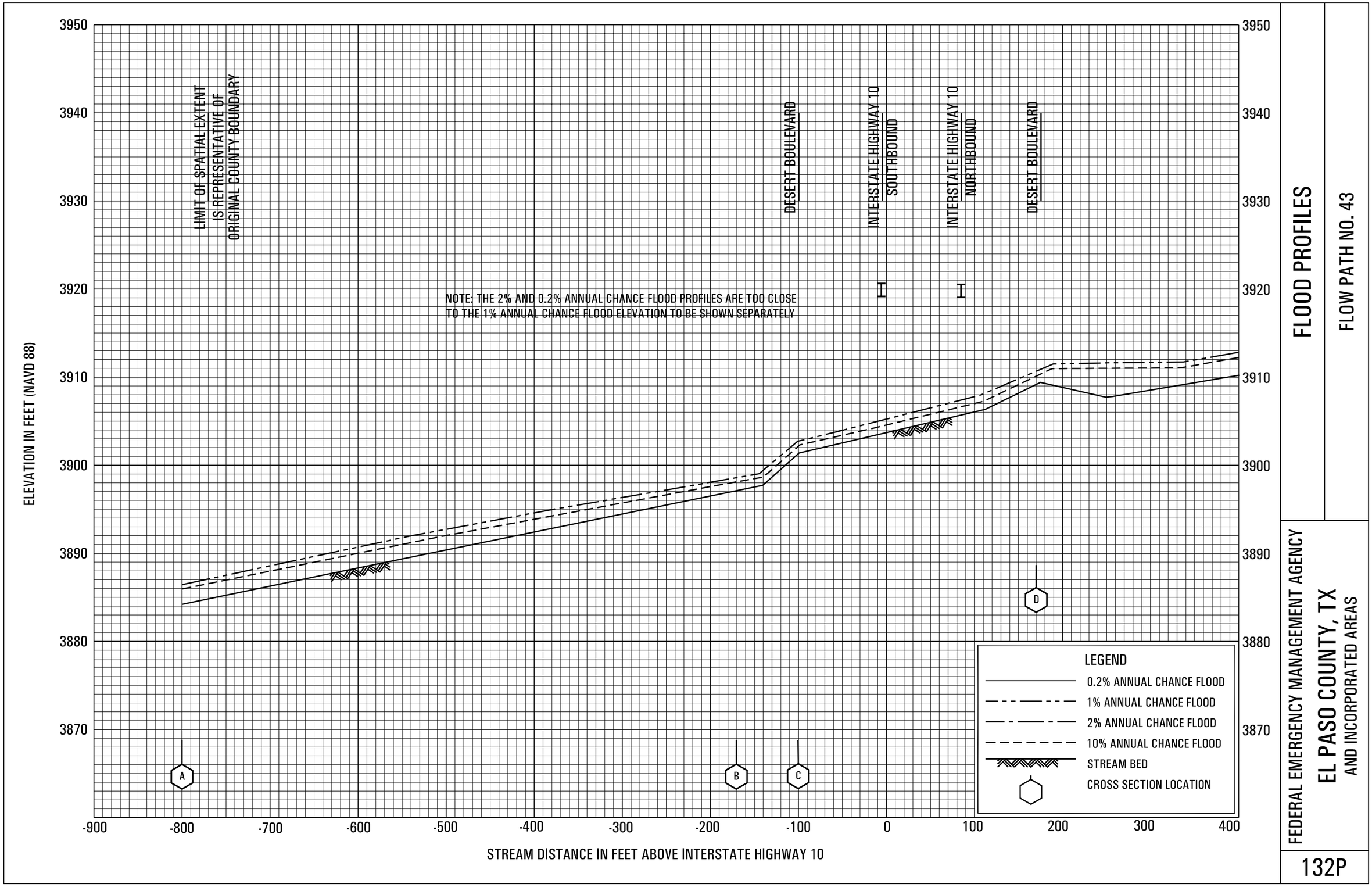
FLOOD PROFILES

FLOW PATH NO. 42A

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

131P



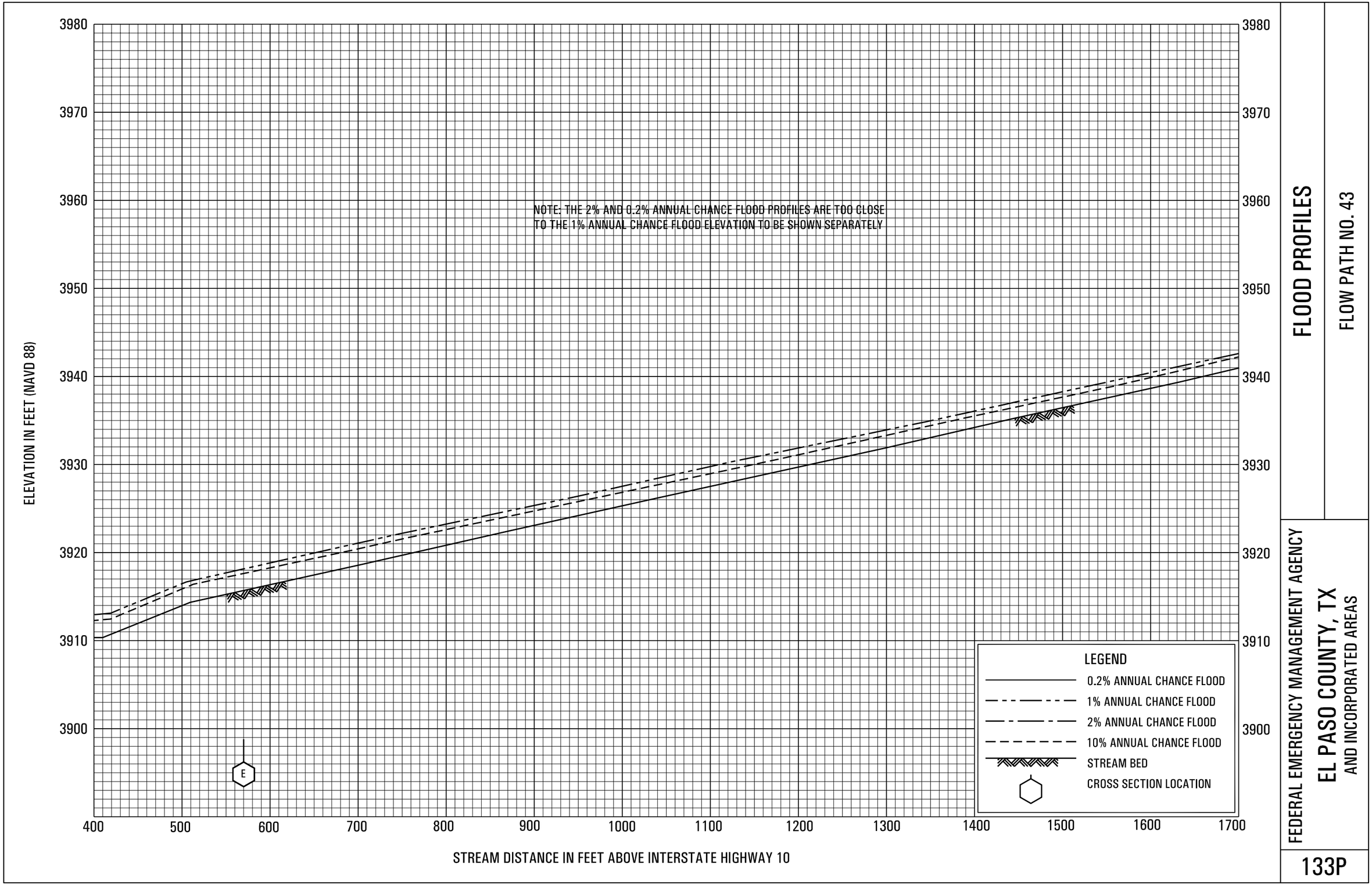
FLOOD PROFILES

FLOW PATH NO. 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

132P



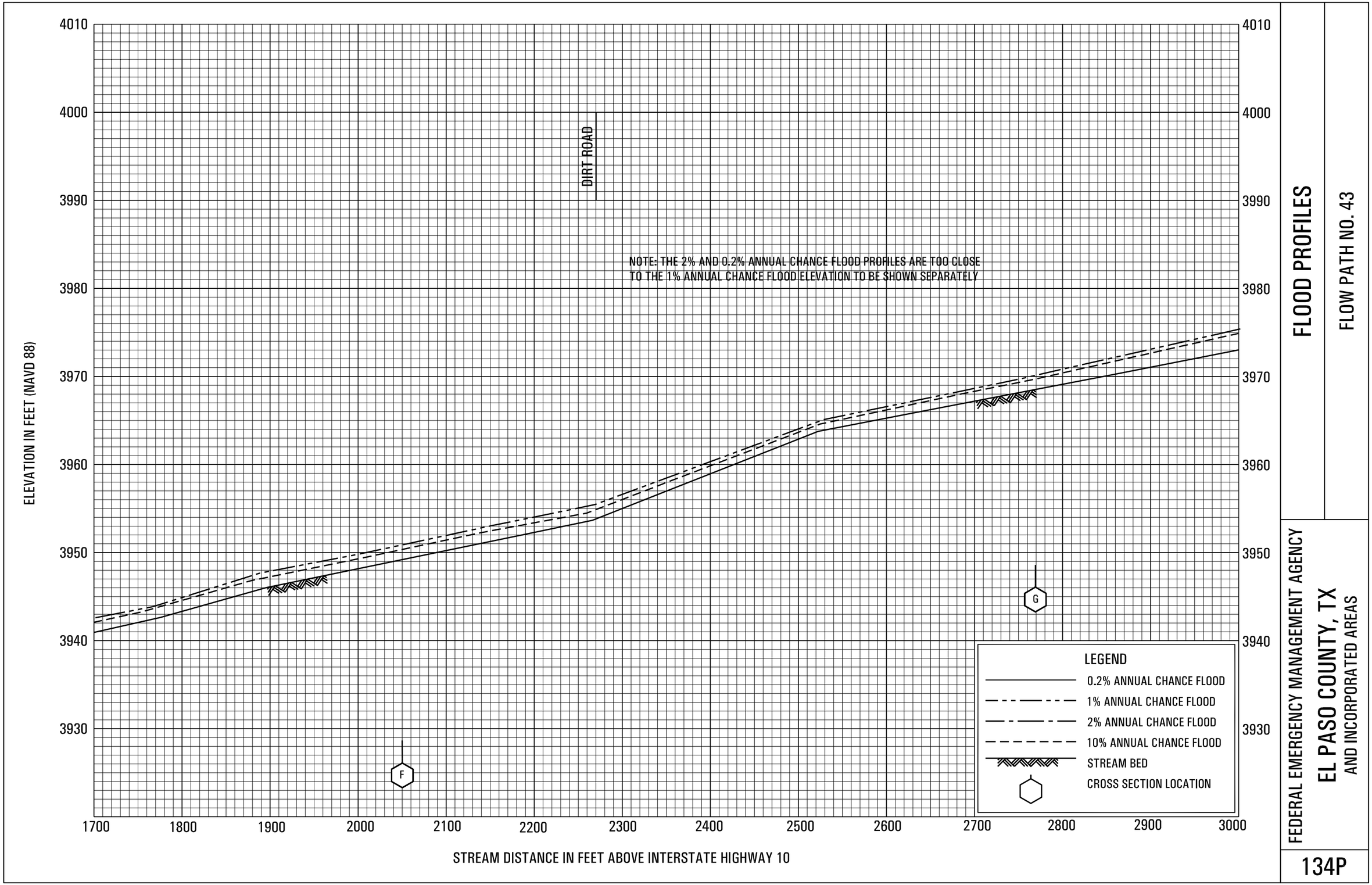
FLOOD PROFILES

FLOW PATH NO. 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

133P

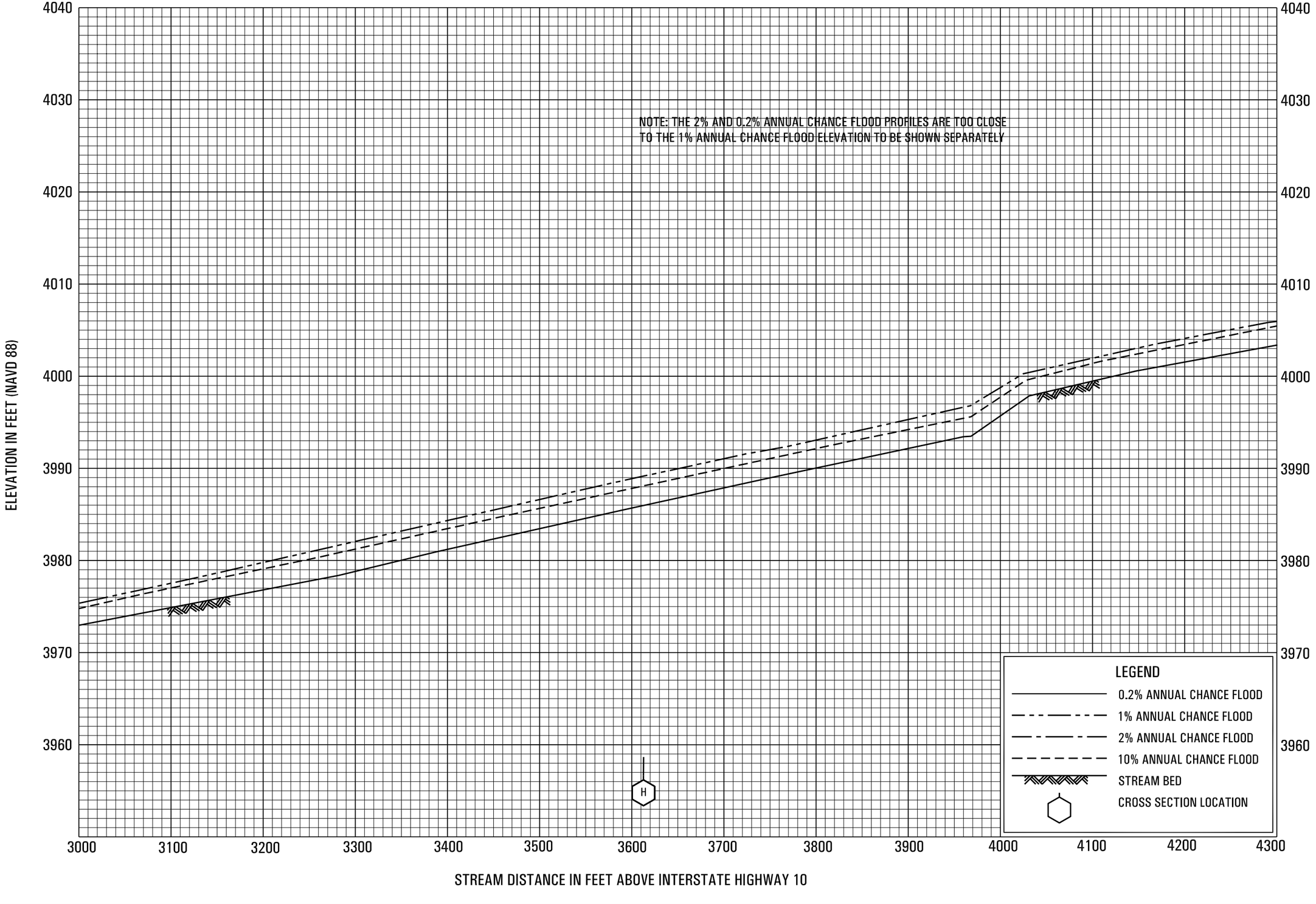


FLOOD PROFILES

FLOW PATH NO. 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



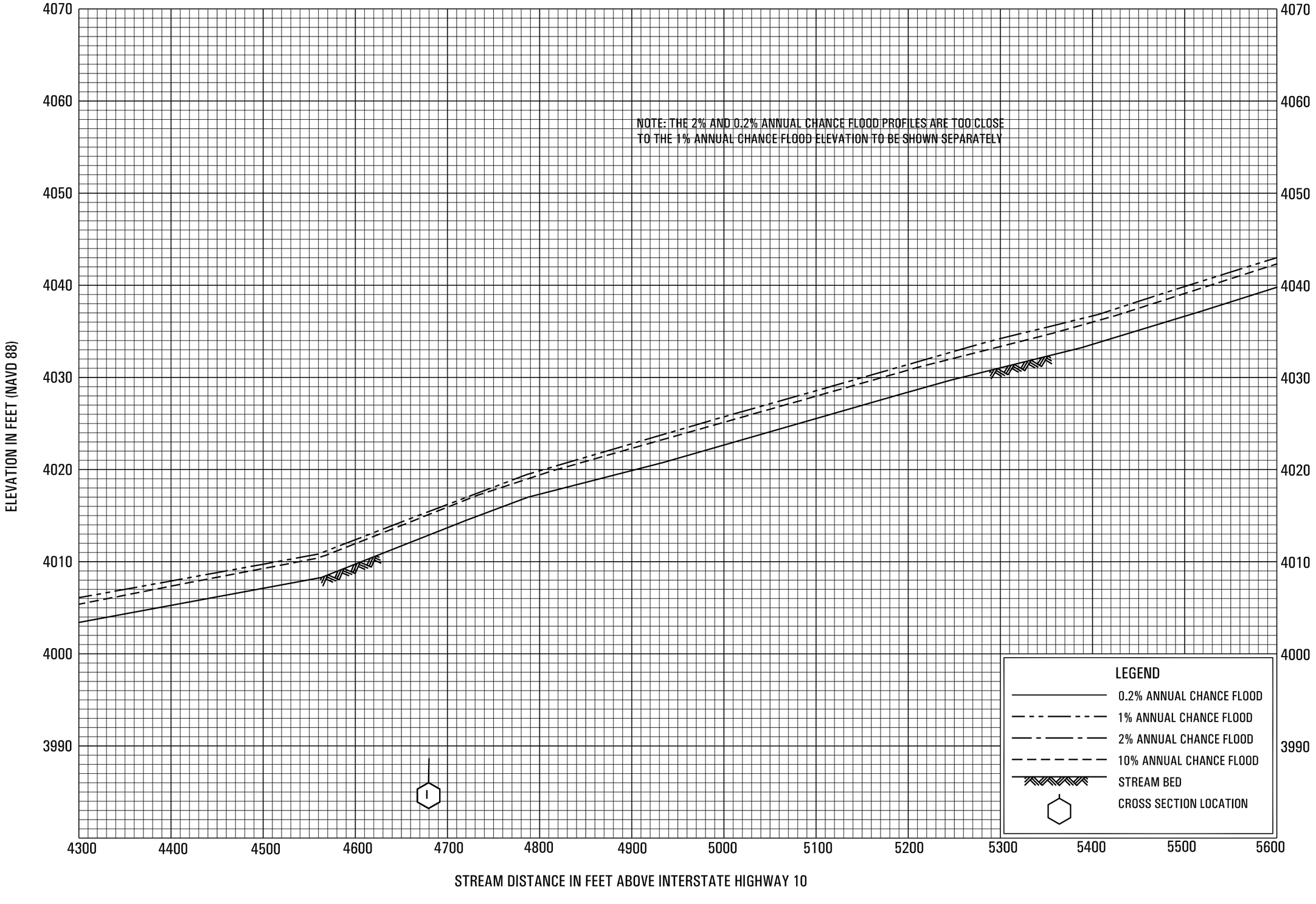
FLOOD PROFILES

FLOW PATH NO. 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

135P



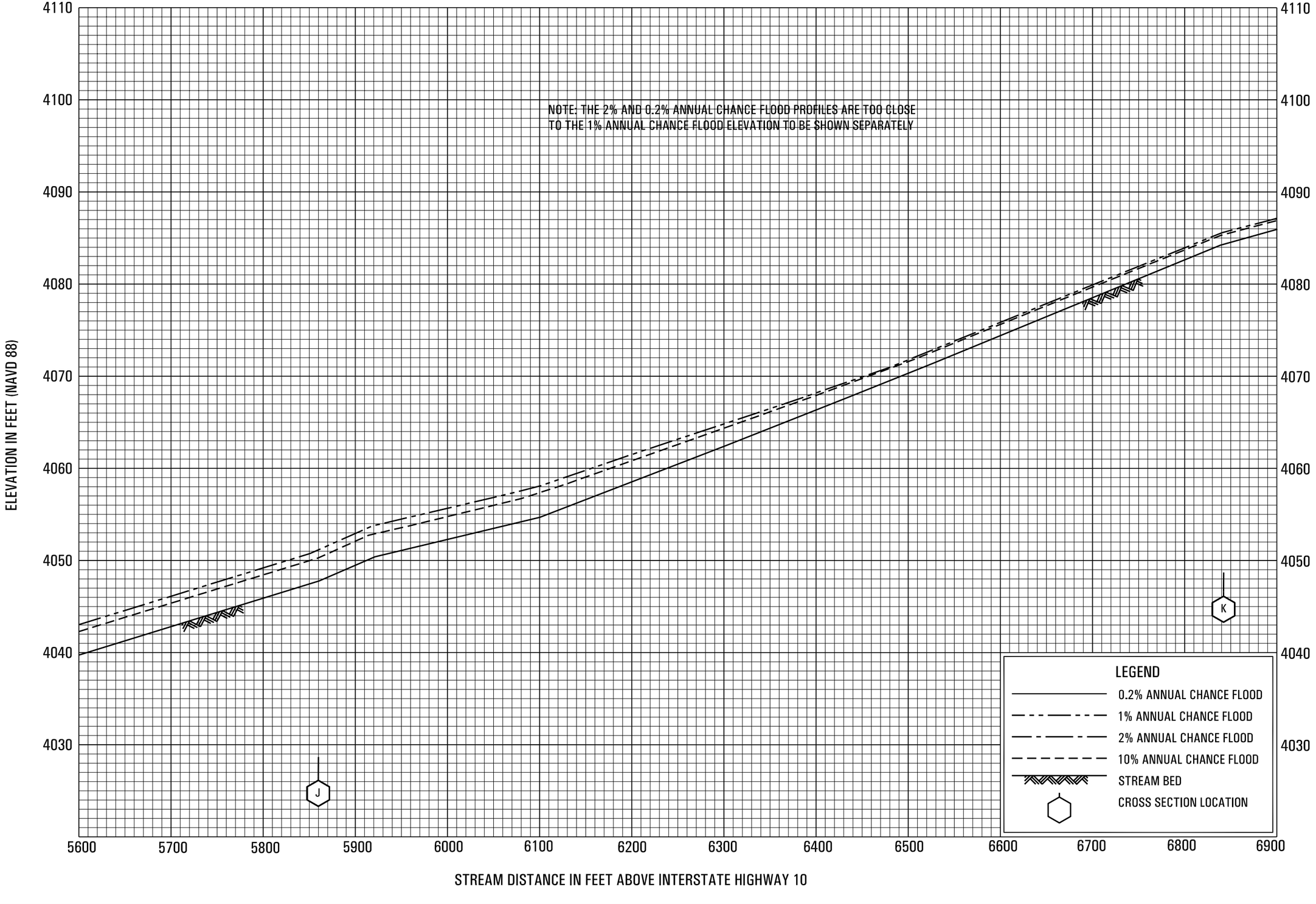
FLOOD PROFILES

FLOW PATH NO. 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

136P



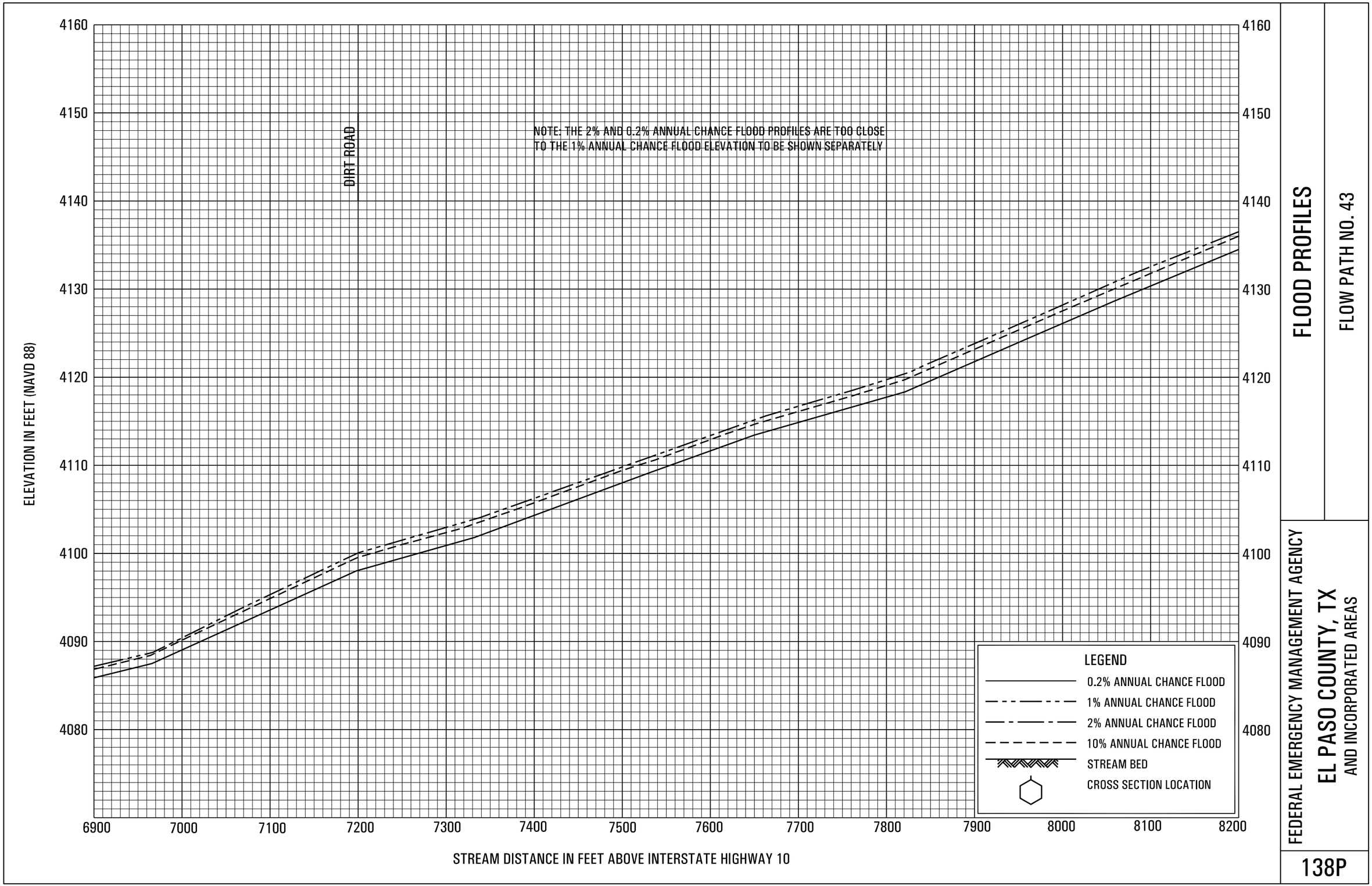
FLOOD PROFILES

FLOW PATH NO. 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

137P



FLOOD PROFILES

FLOW PATH NO. 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

138P

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

ELEVATION IN FEET (NAVD 88)

4210
4200
4190
4180
4170
4160
4150
4140
4130

8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500

STREAM DISTANCE IN FEET ABOVE INTERSTATE HIGHWAY 10

L

M

N

LEGEND

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

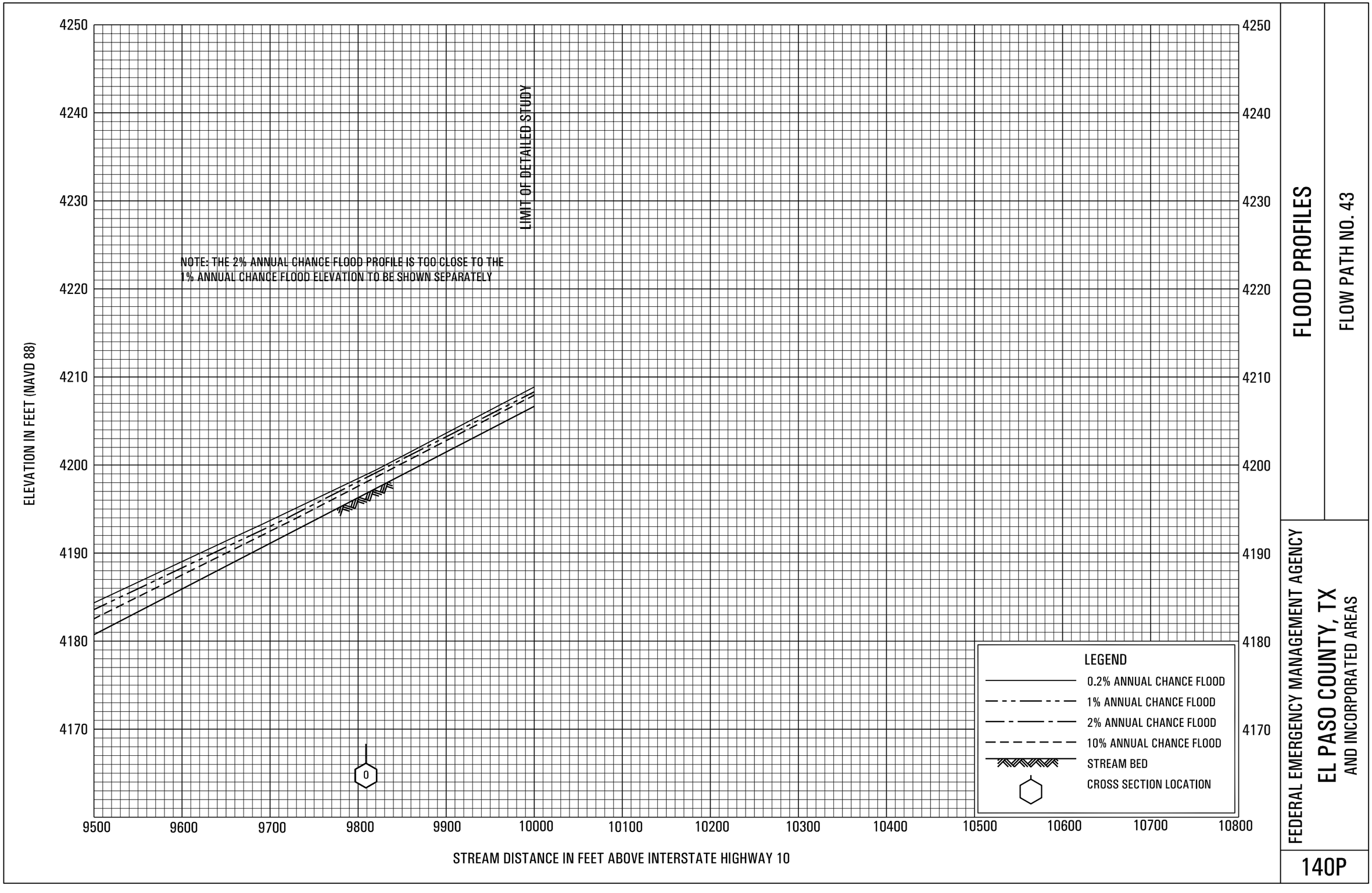
FLOOD PROFILES

FLOW PATH NO. 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

139P



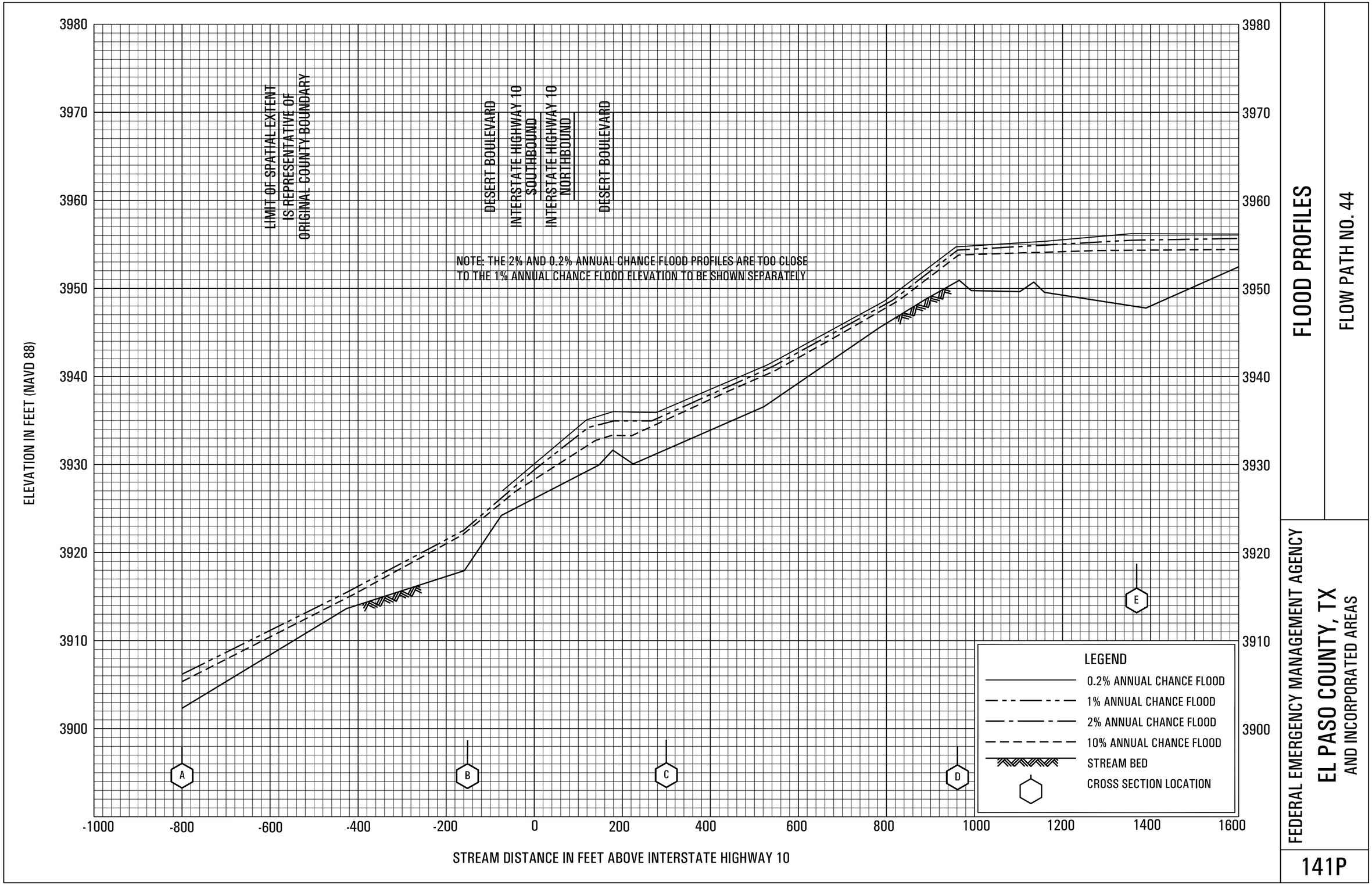
FLOOD PROFILES

FLOW PATH NO. 43

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

140P



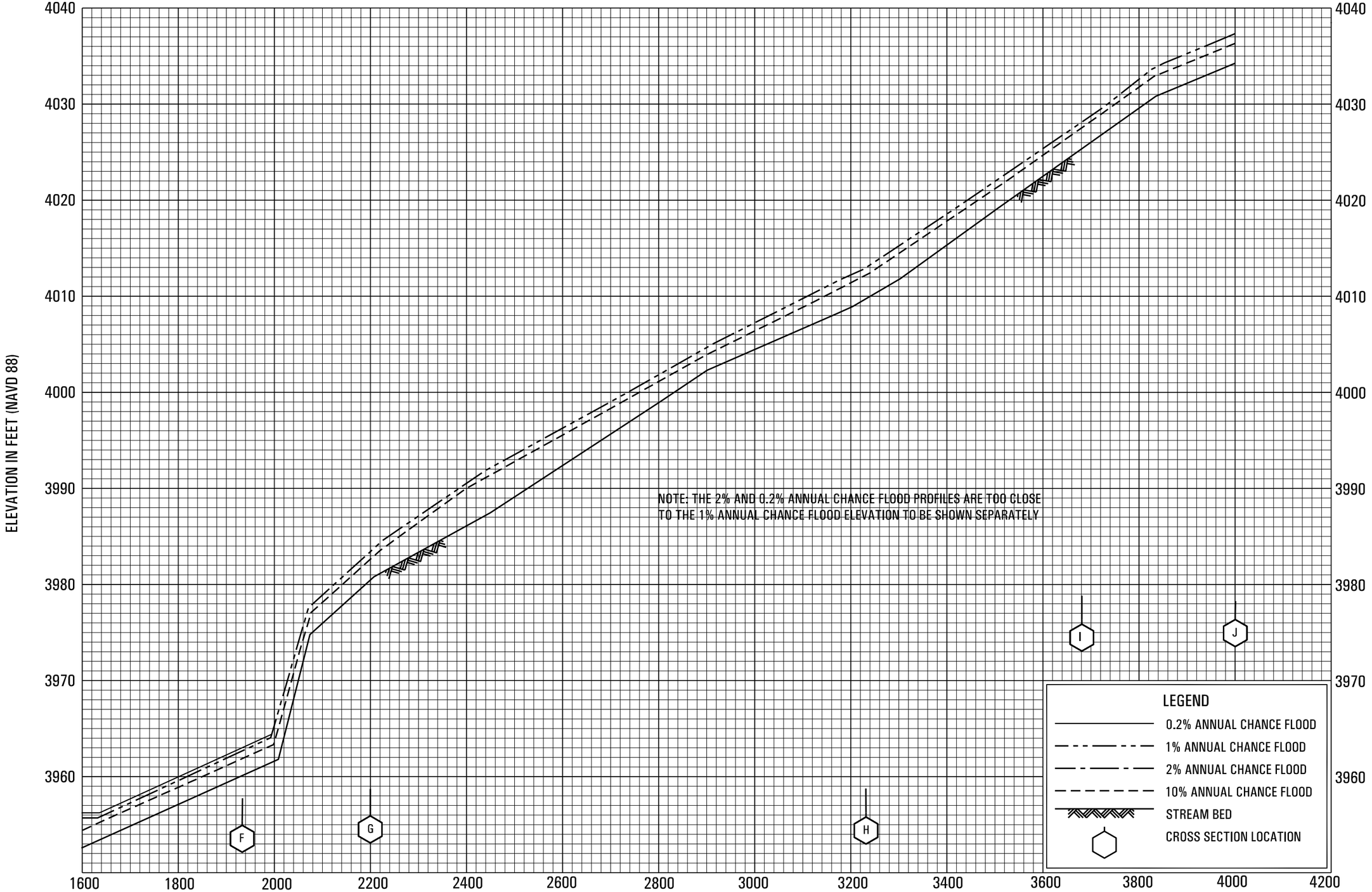
FLOOD PROFILES

FLOW PATH NO. 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

141P



FLOOD PROFILES

FLOW PATH NO. 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

142P

FLOOD PROFILES

FLOW PATH NO. 44

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

ELEVATION IN FEET (NAVD 88)

4120
4110
4100
4090
4080
4070
4060
4050
4040
4030

4000 4200 4400 4600 4800 5000 5200 5400 5600 5800 6000 6200 6400 6600

STREAM DISTANCE IN FEET ABOVE INTERSTATE HIGHWAY 10

K L M N O

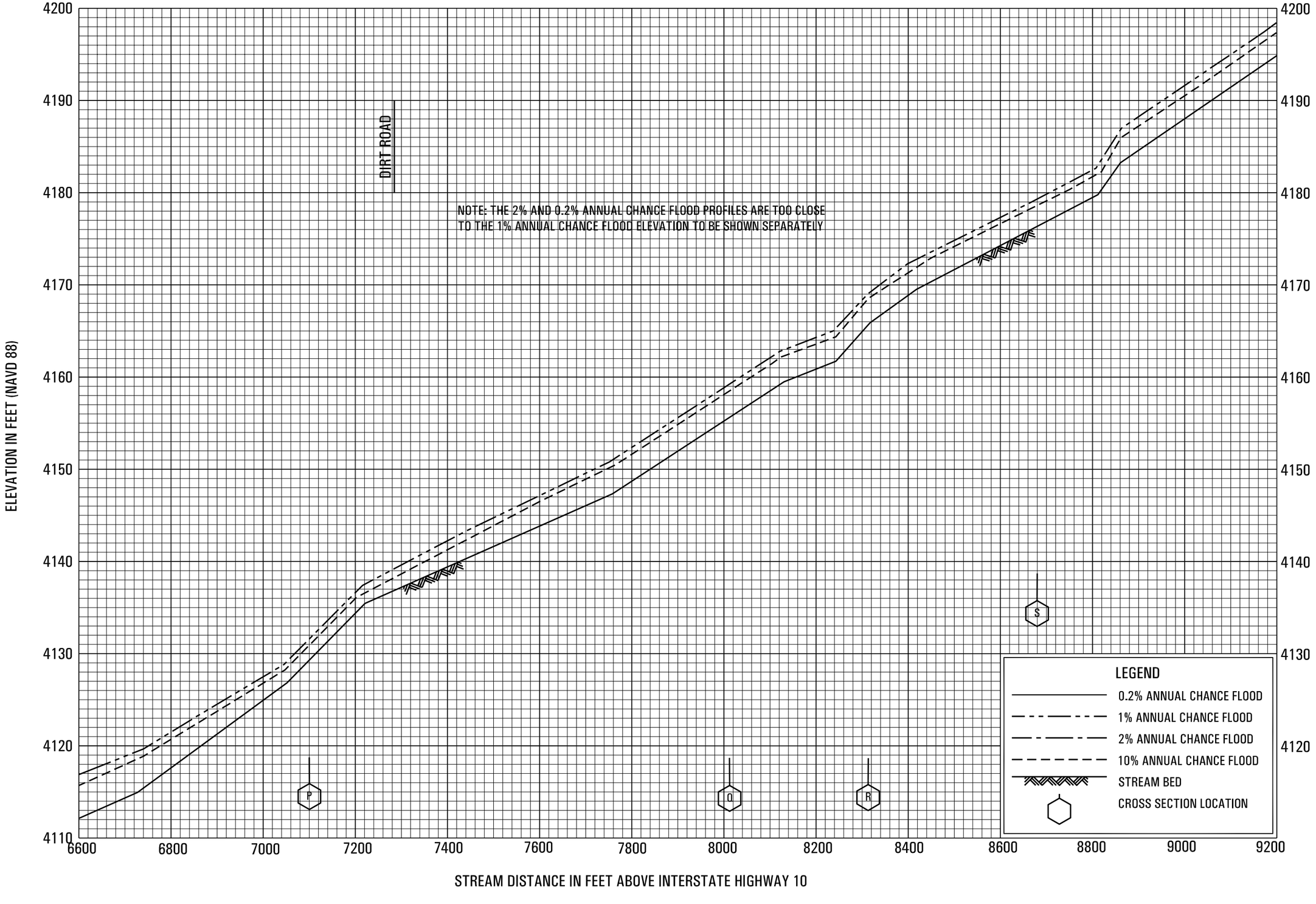
LEGEND

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

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

143P



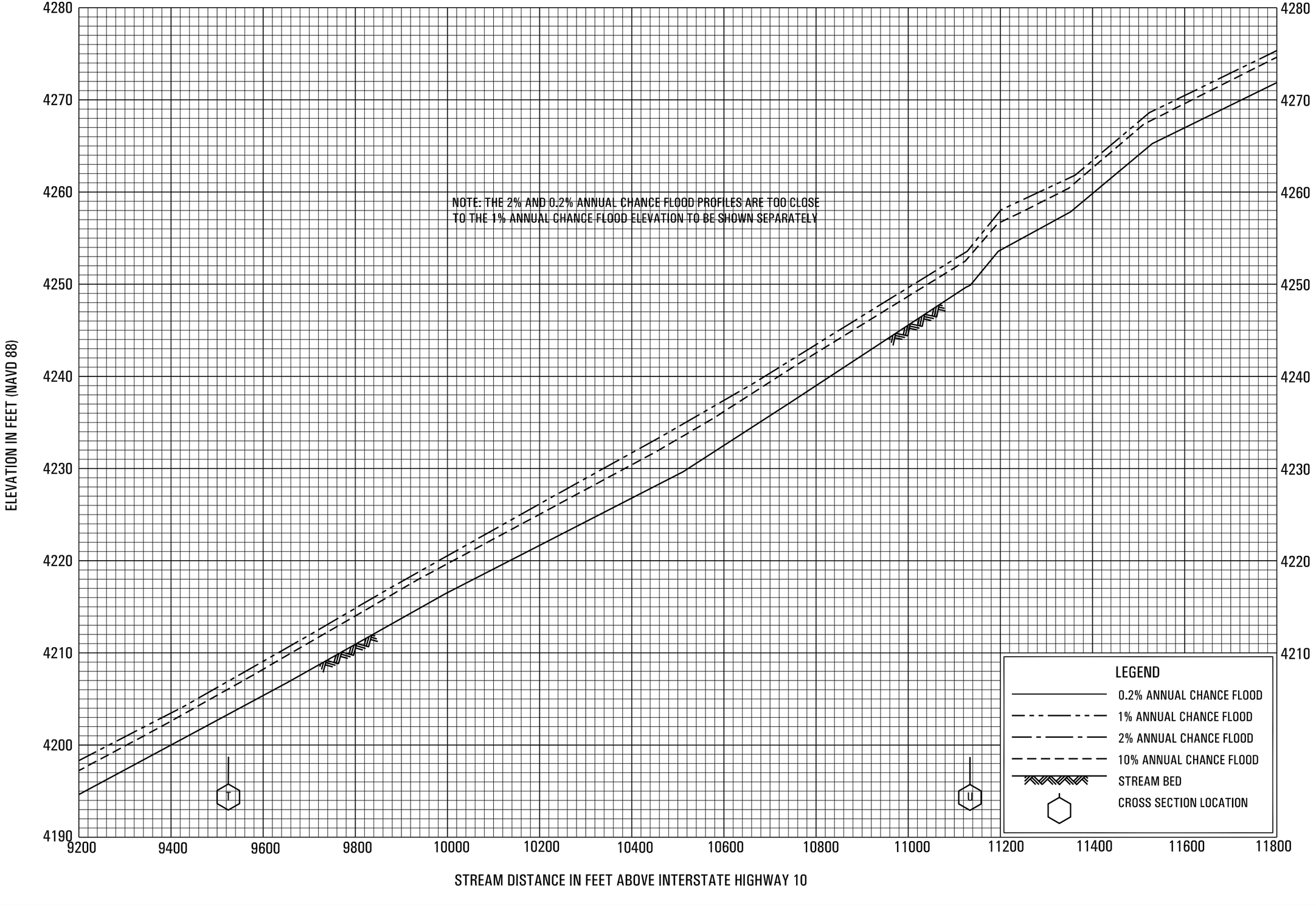
FLOOD PROFILES

FLOW PATH NO. 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

144P



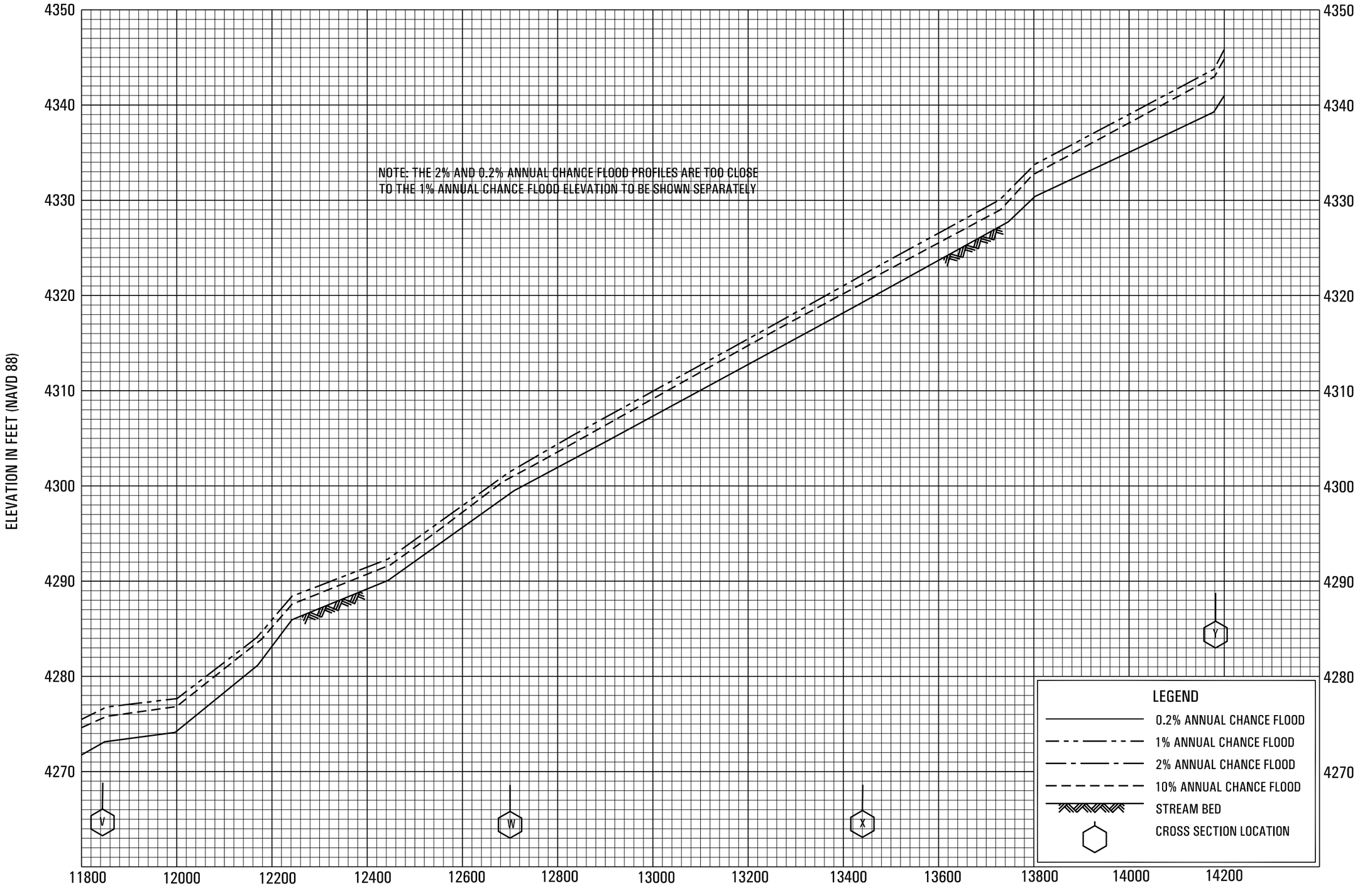
FLOOD PROFILES

FLOW PATH NO. 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

145P



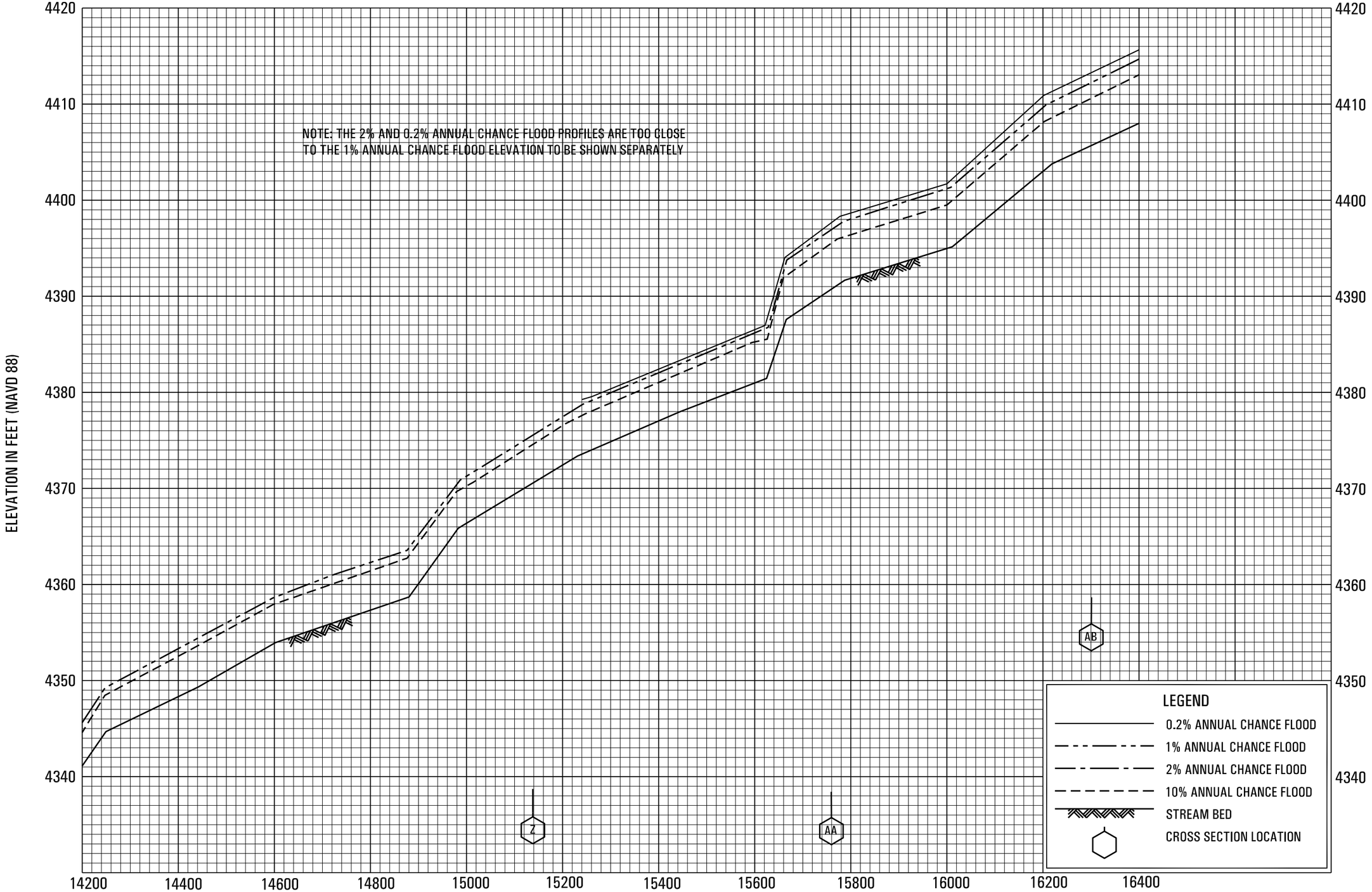
FLOOD PROFILES

FLOW PATH NO. 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

146P



FLOOD PROFILES

FLOW PATH NO. 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

147P

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

ELEVATION IN FEET (NAVD 88)

4490
4480
4470
4460
4450
4440
4430
4420
4410
4400

16400 16600 16800 17000 17200 17400 17600 17800 18000 18200 18400 18600

STREAM DISTANCE IN FEET ABOVE INTERSTATE HIGHWAY 10

AC AD AE

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

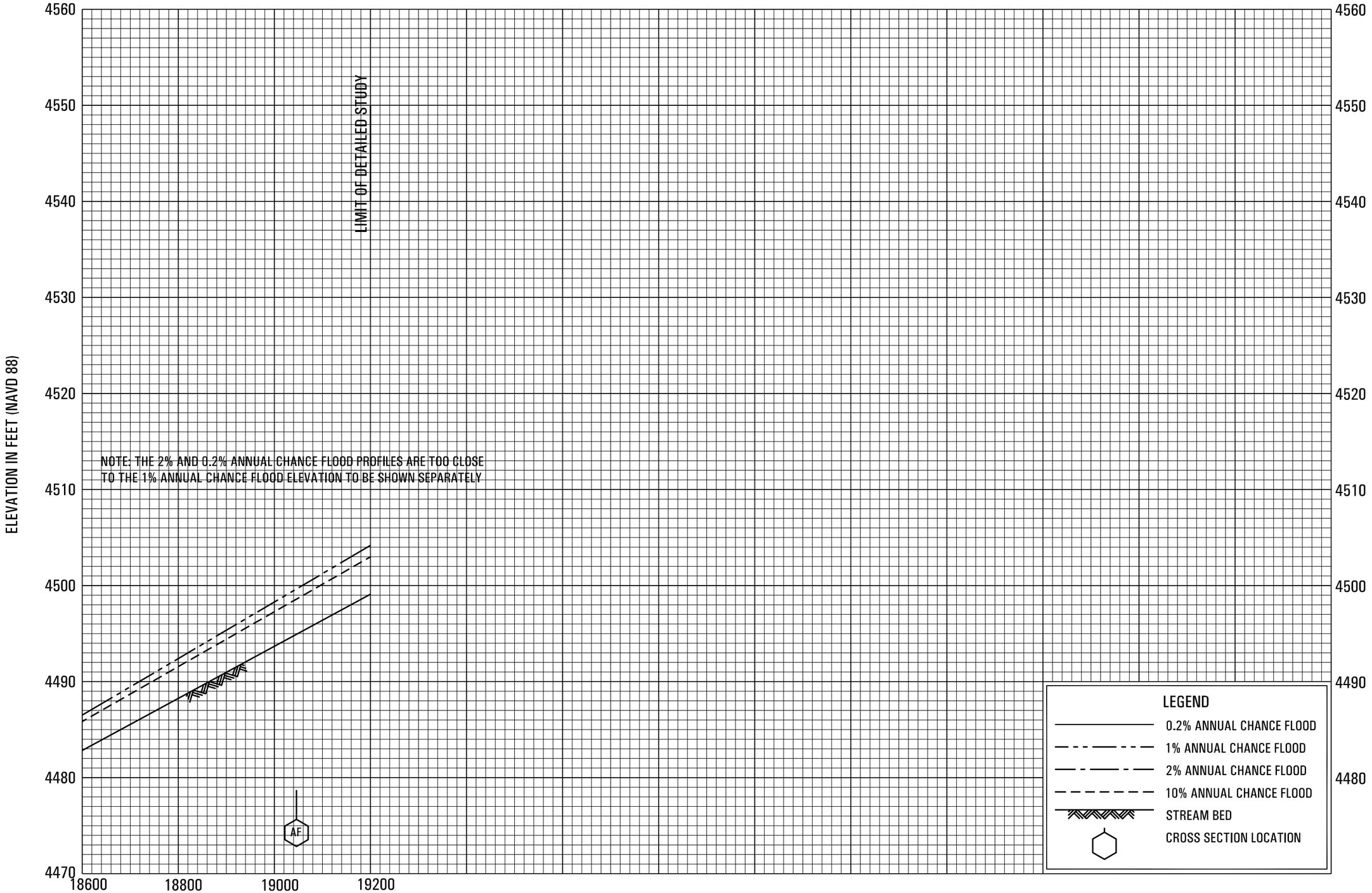
FLOOD PROFILES

FLOW PATH NO. 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

148P



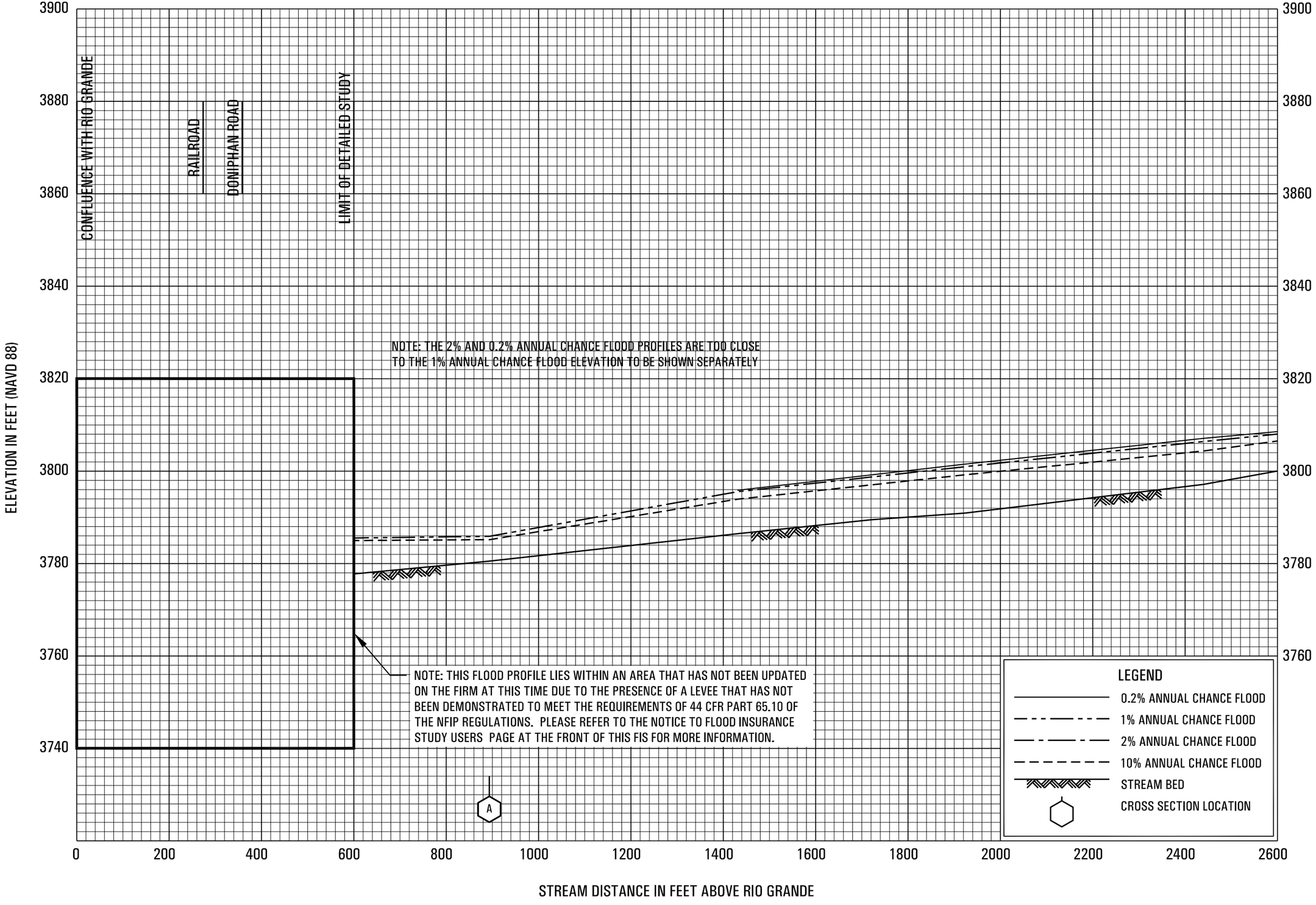
FLOOD PROFILES

FLOW PATH NO. 44

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

149P



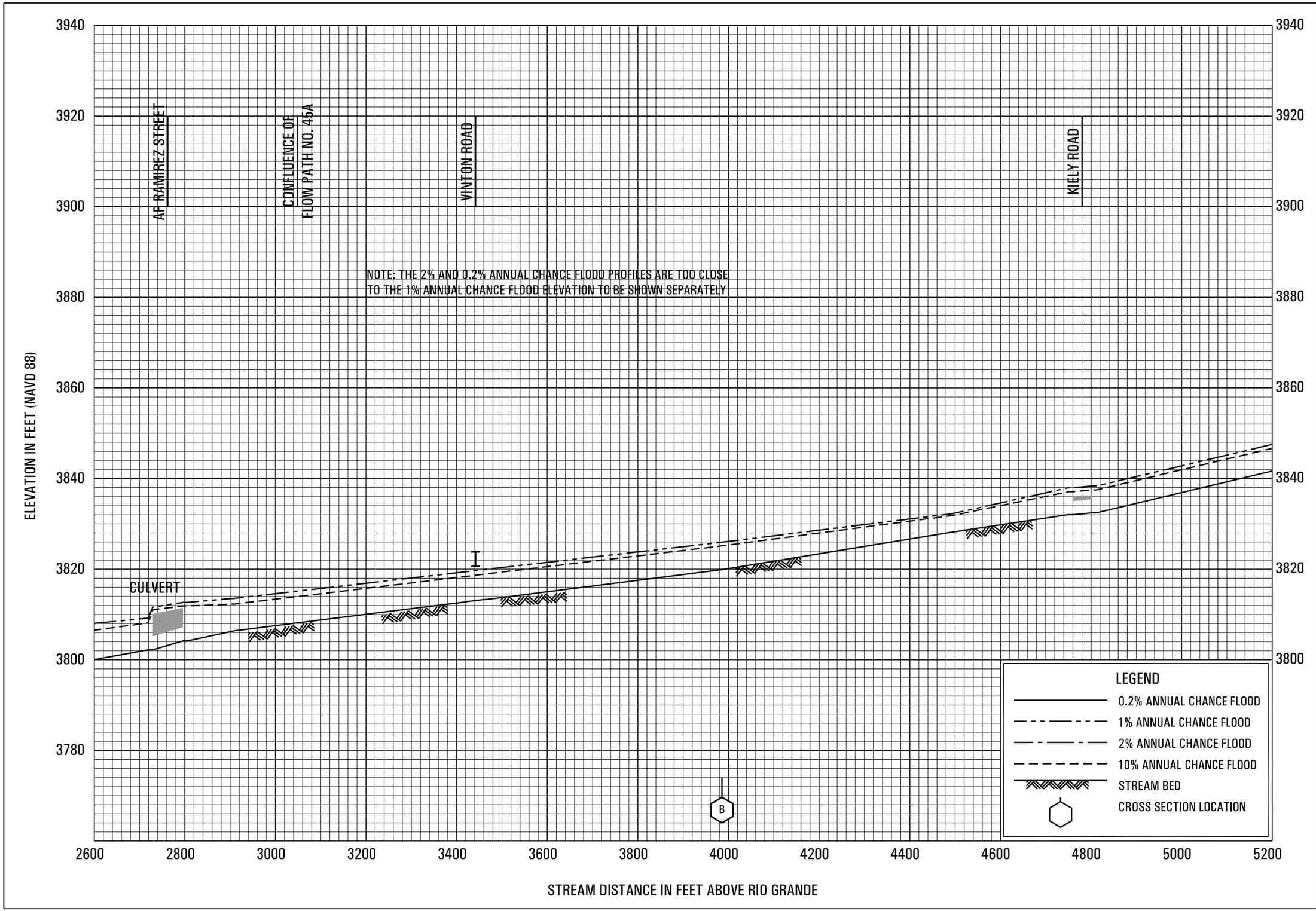
FLOOD PROFILES

FLOW PATH NO. 45

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

150P



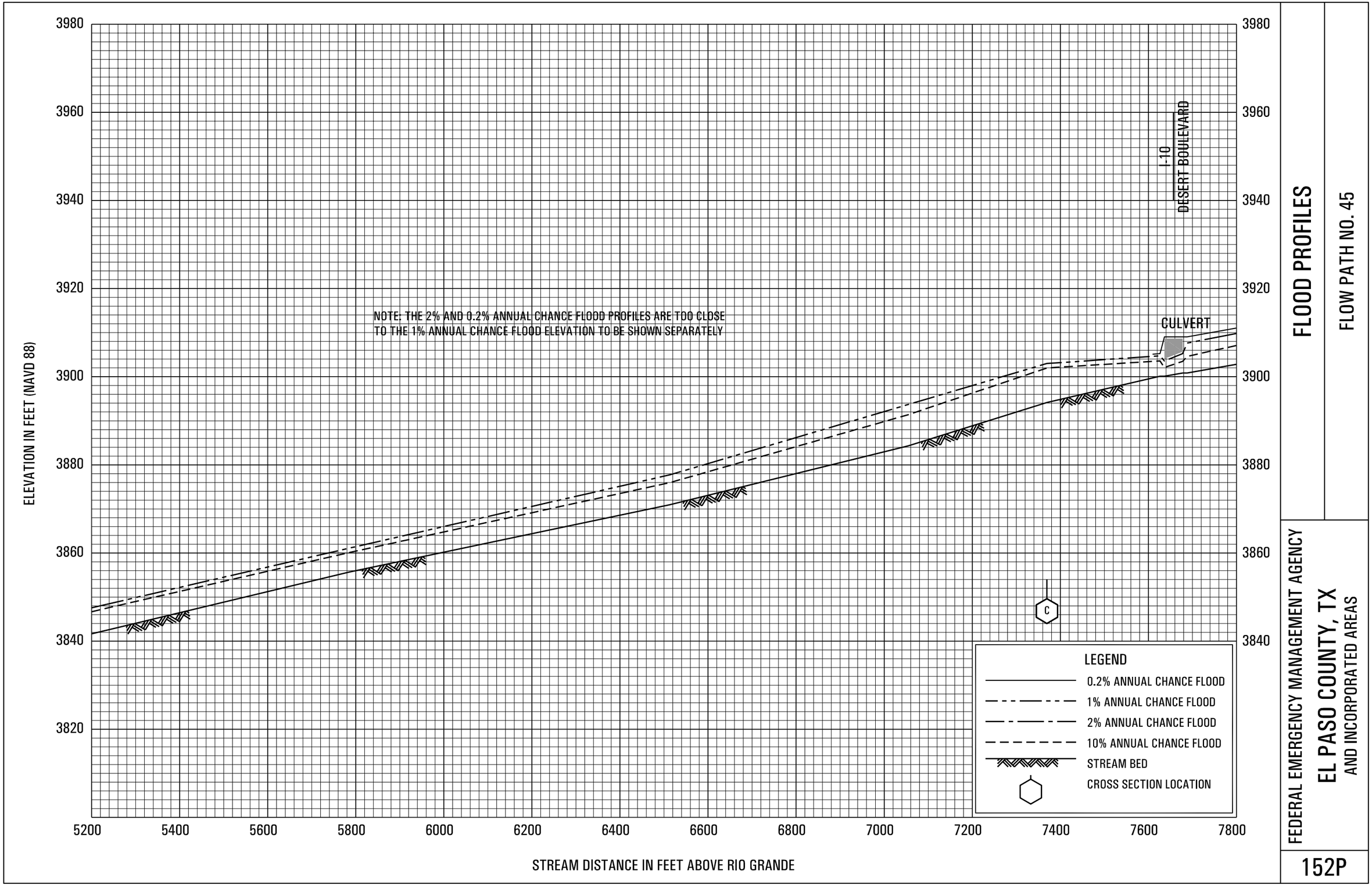
FLOOD PROFILES

FLOW PATH NO. 45

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

151P



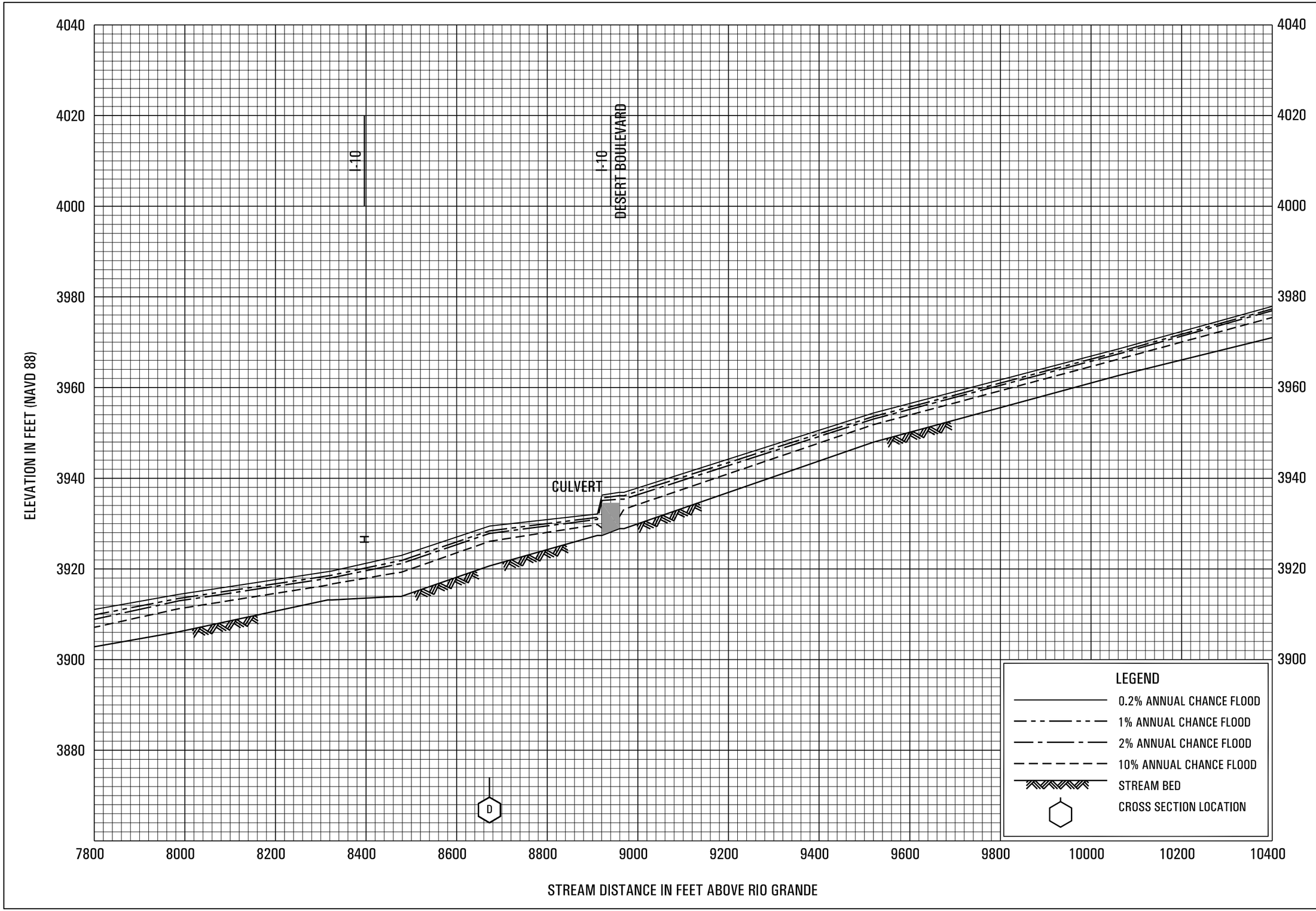
FLOOD PROFILES

FLOW PATH NO. 45

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

152P



FLOOD PROFILES

FLOW PATH NO. 45

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

153P

FLOOD PROFILES

FLOW PATH NO. 45

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

ELEVATION IN FEET (NAVD 88)

4100
4080
4060
4040
4020
4000
3980
3960
3940

10400 10600 10800 11000 11200 11400 11600 11800 12000 12200 12400 12600 12800 13000

STREAM DISTANCE IN FEET ABOVE RIO GRANDE

E

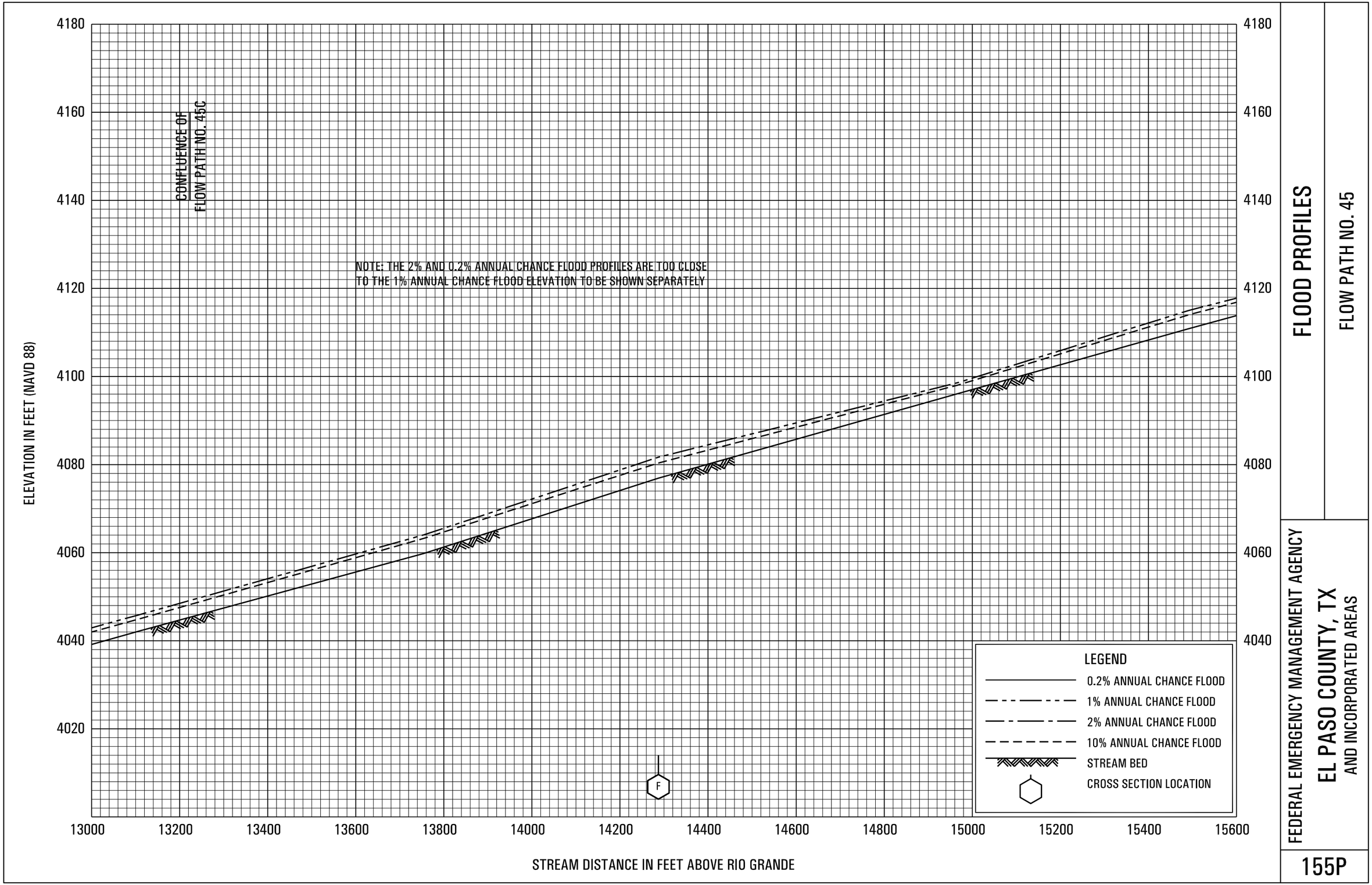
LEGEND

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

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

154P



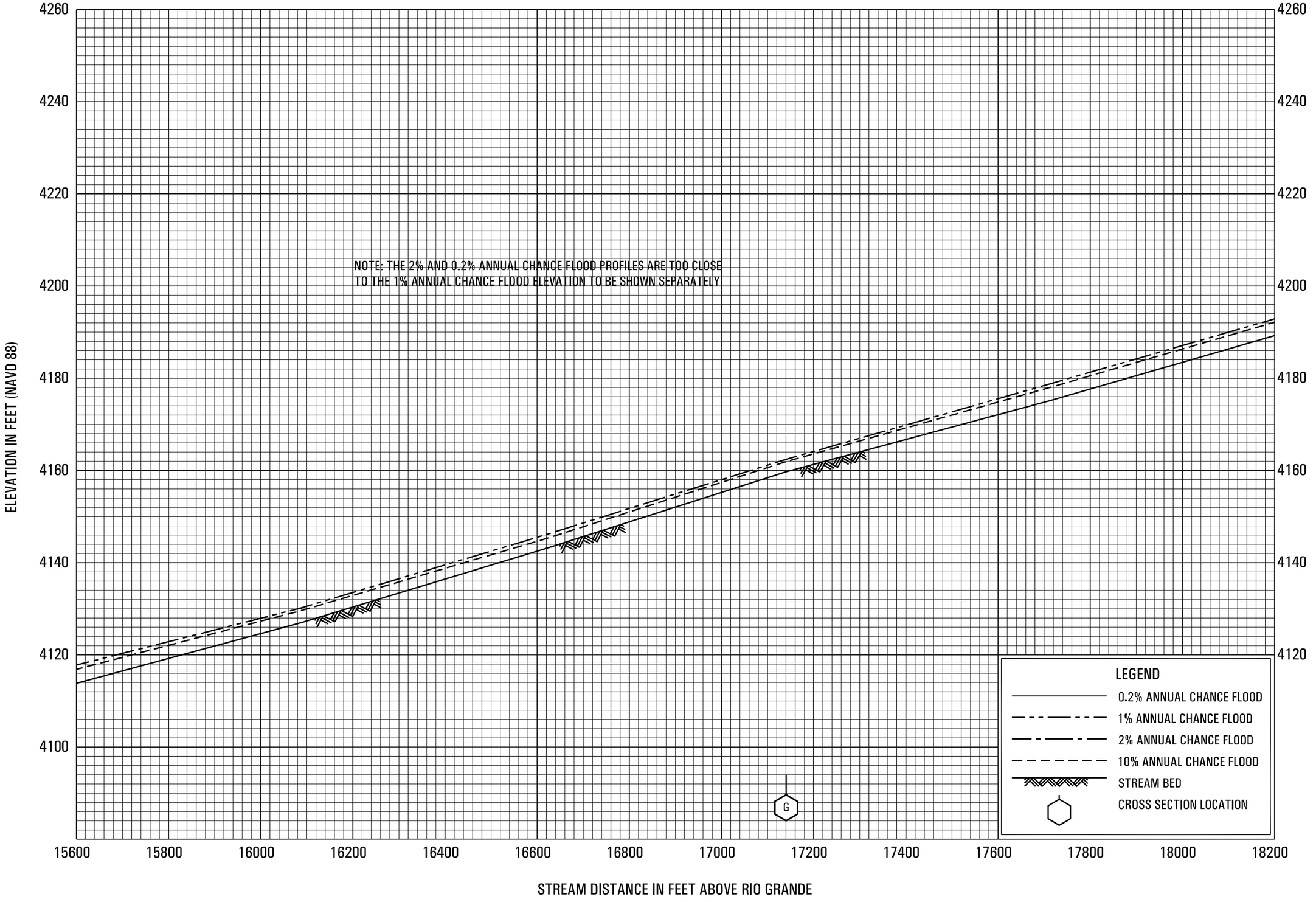
FLOOD PROFILES

FLOW PATH NO. 45

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

155P



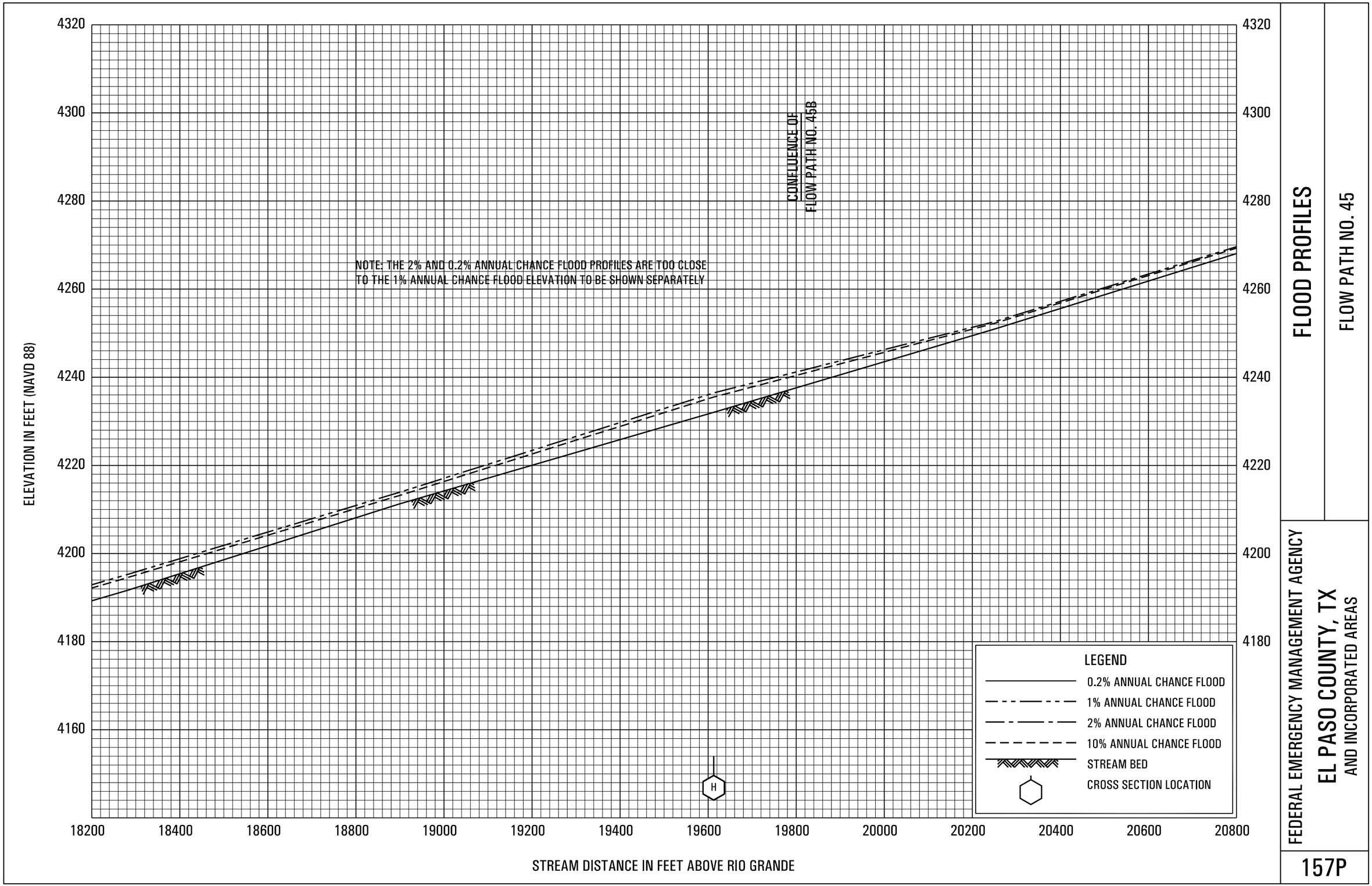
FLOOD PROFILES

FLOW PATH NO. 45

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

156P



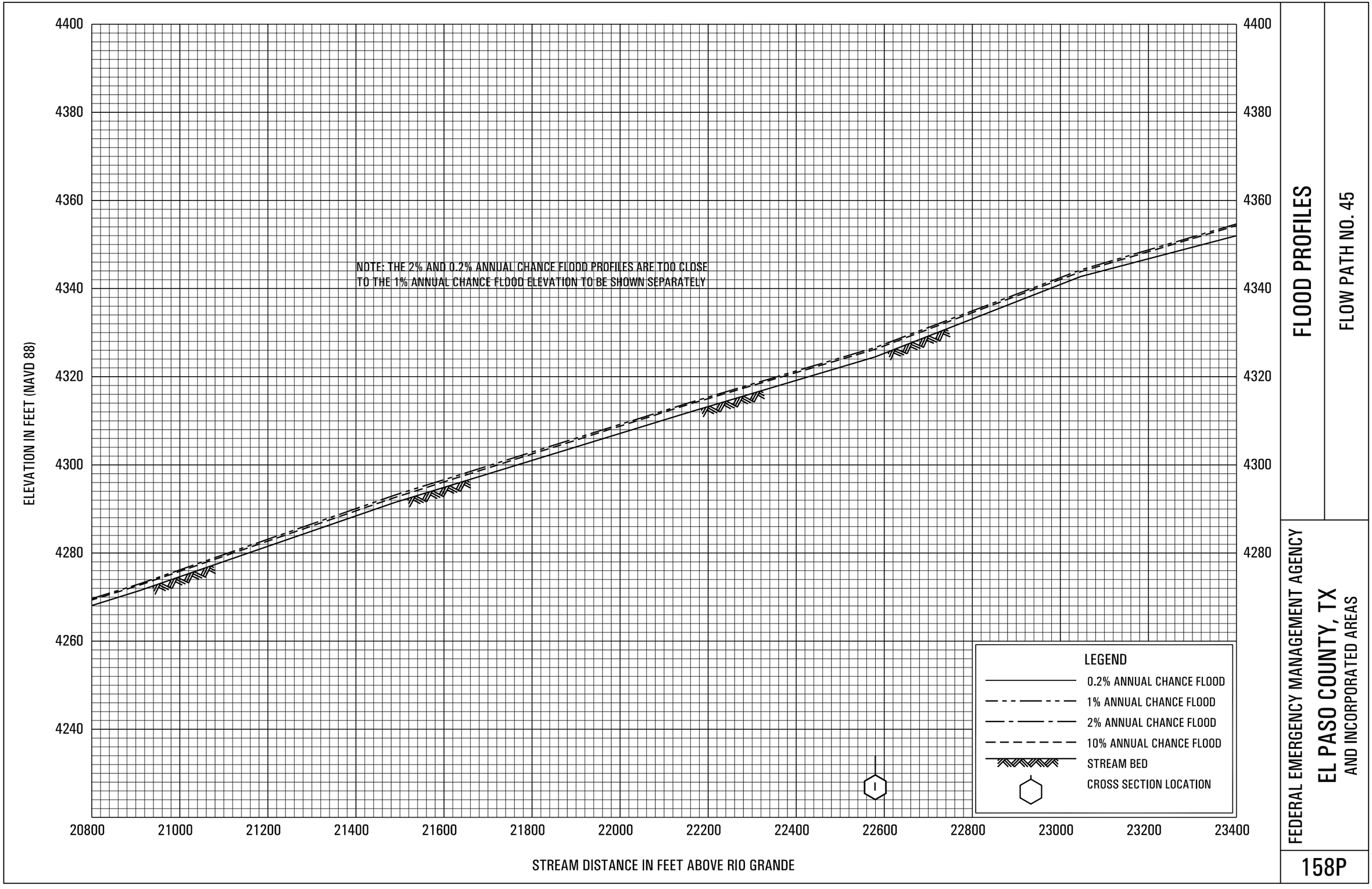
FLOOD PROFILES

FLOW PATH NO. 45

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

157P



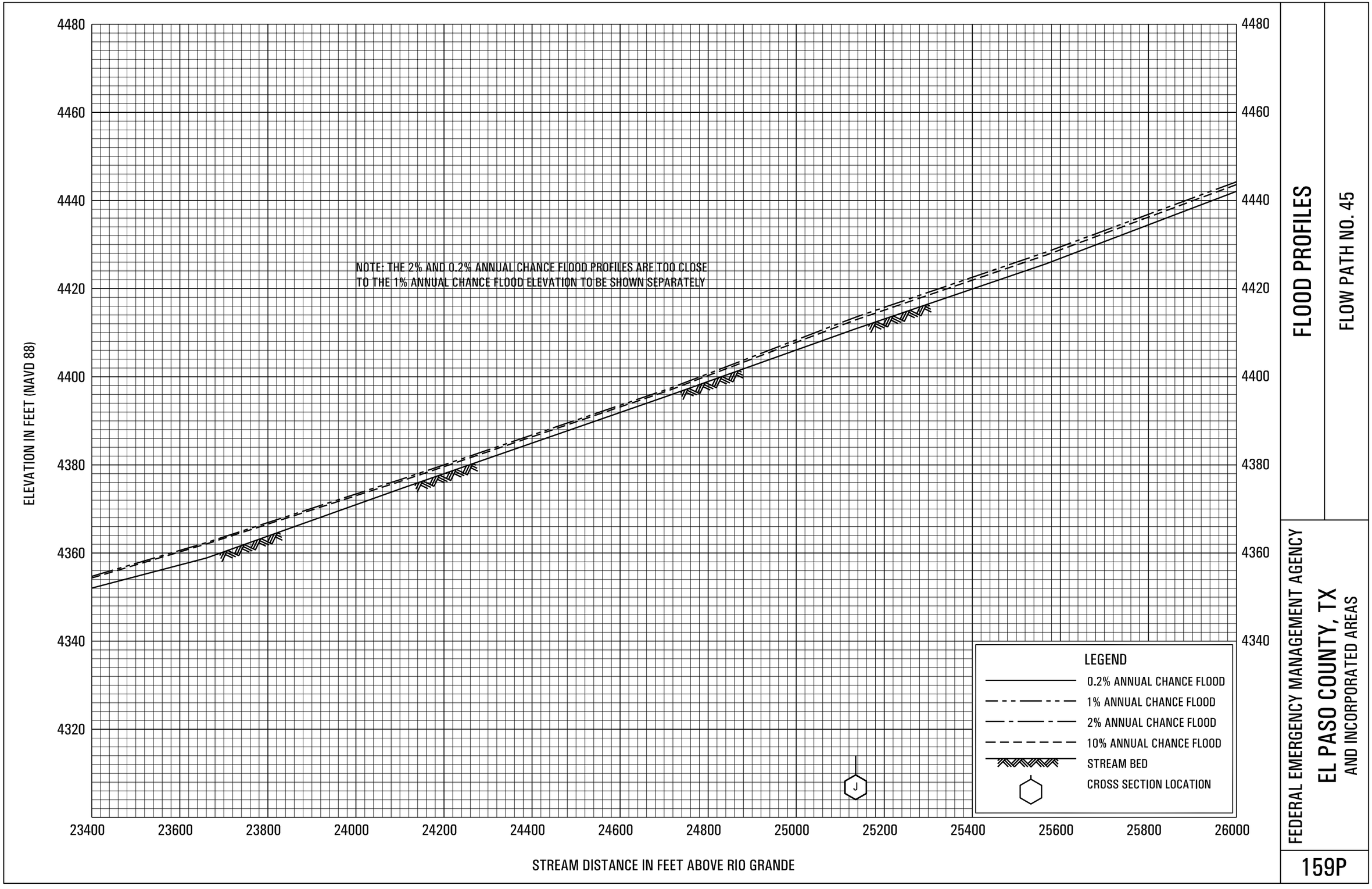
FLOOD PROFILES

FLOW PATH NO. 45

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

158P



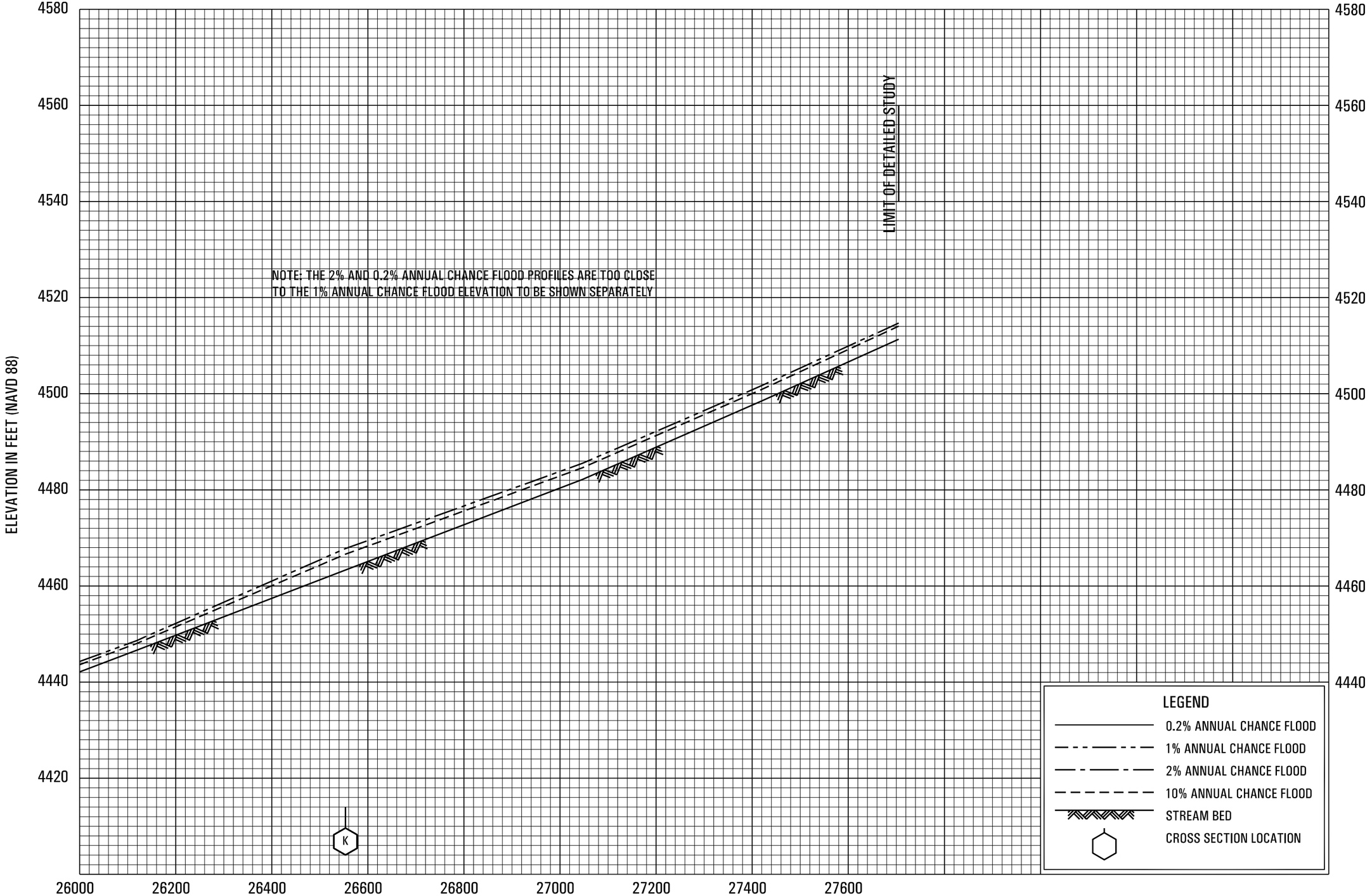
FLOOD PROFILES

FLOW PATH NO. 45

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

159P



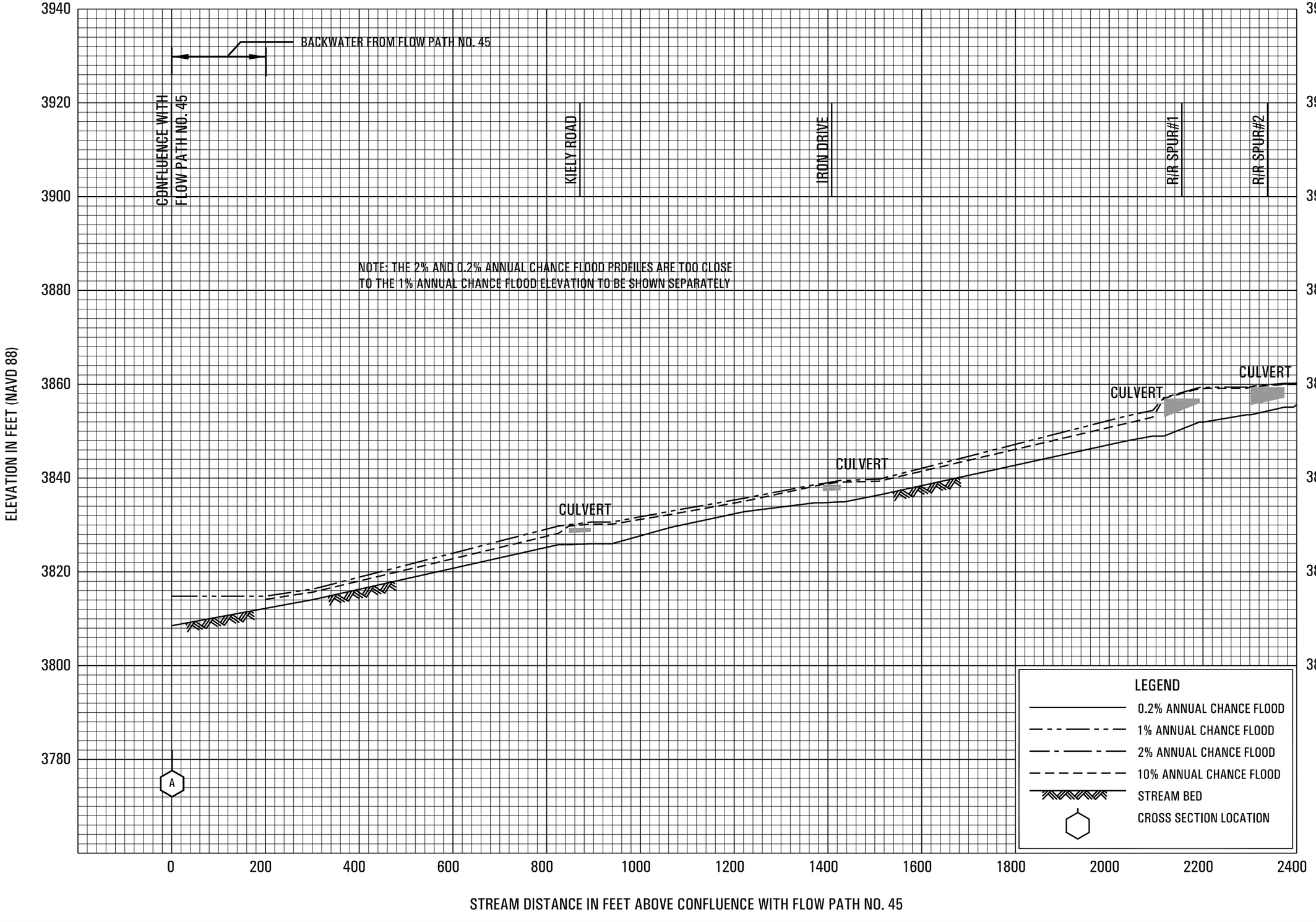
FLOOD PROFILES

FLOW PATH NO. 45

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

160P



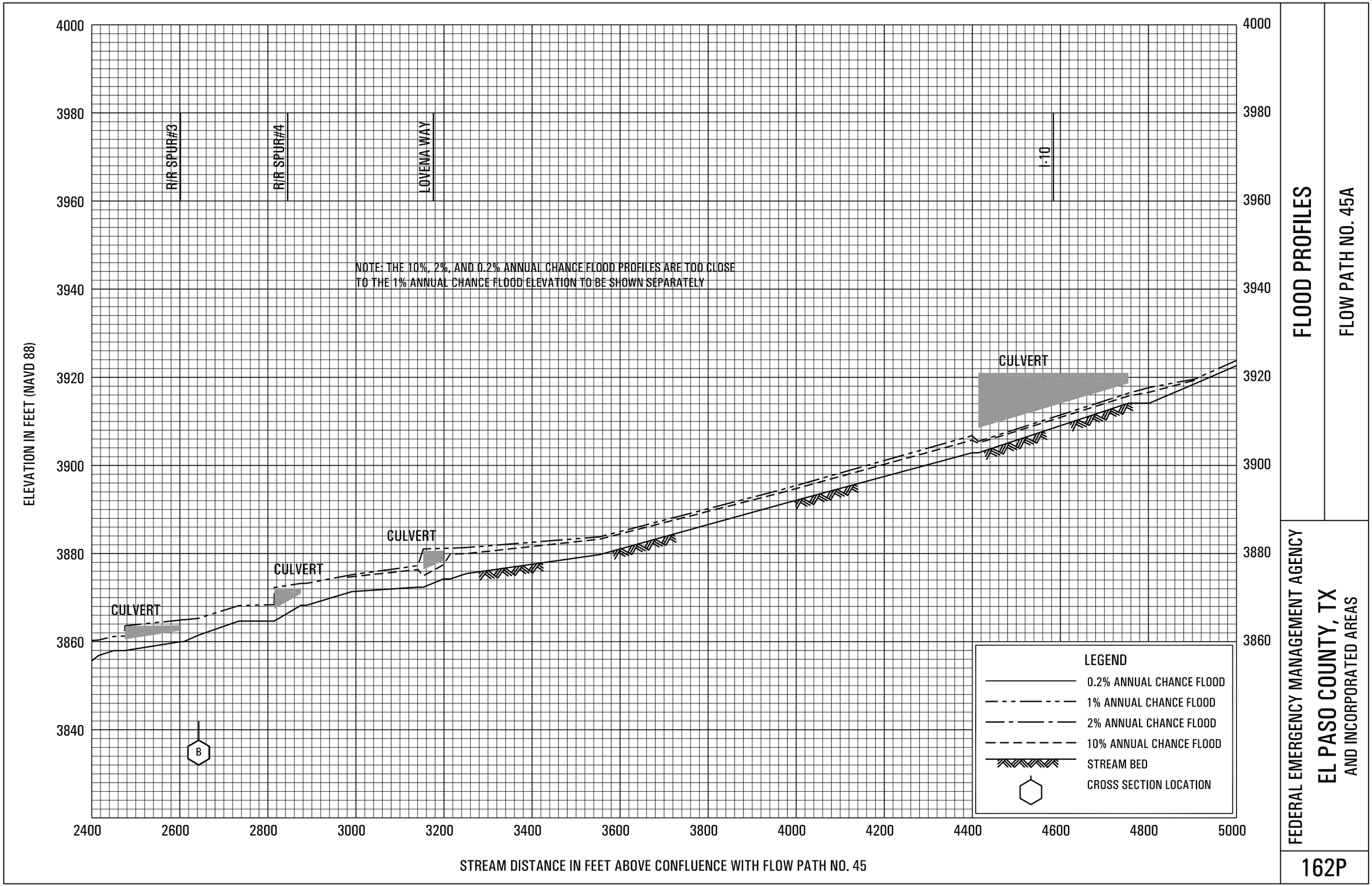
FLOOD PROFILES

FLOW PATH NO. 45A

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

161P

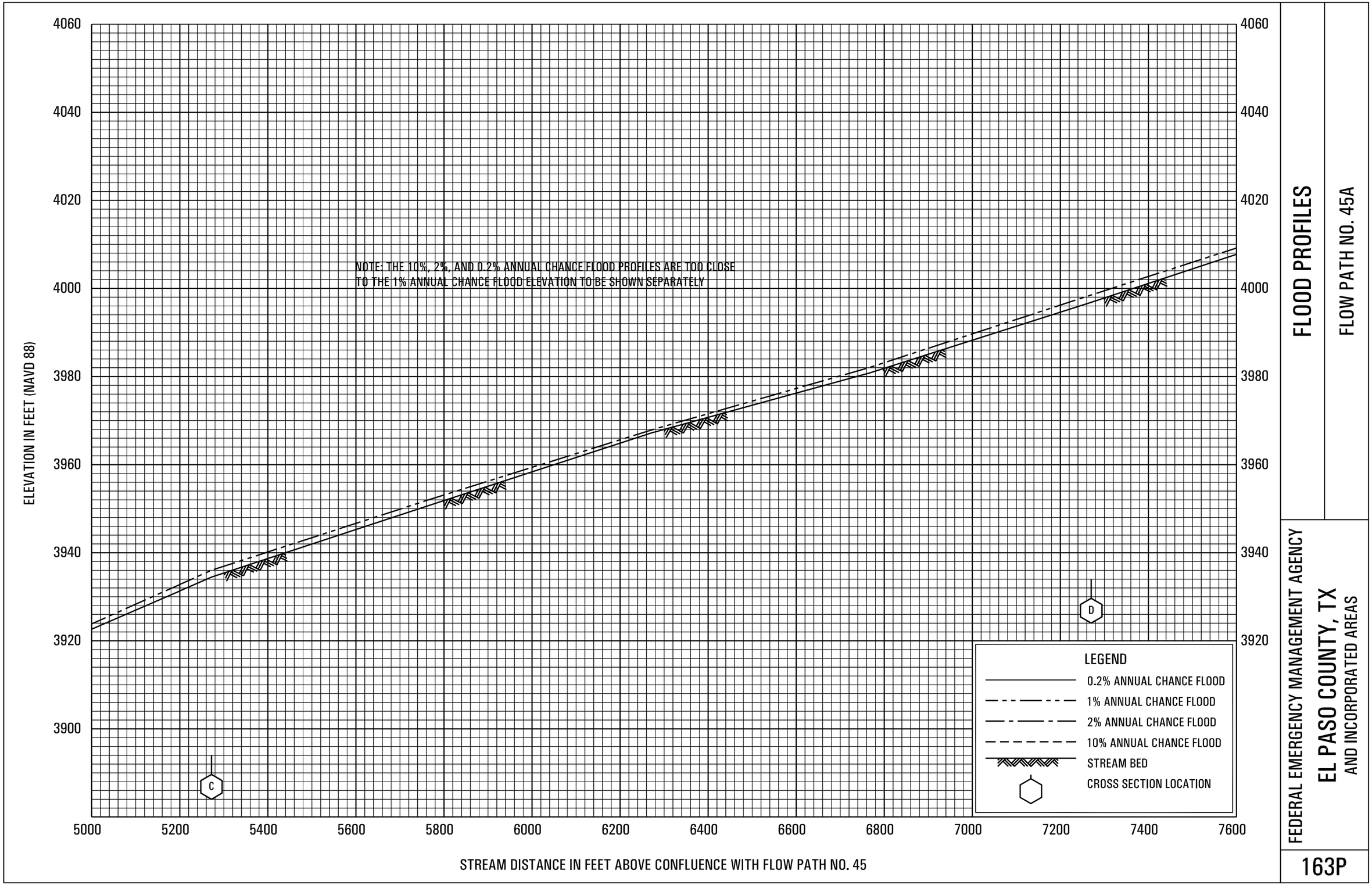


FLOOD PROFILES

FLOW PATH NO. 45A

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



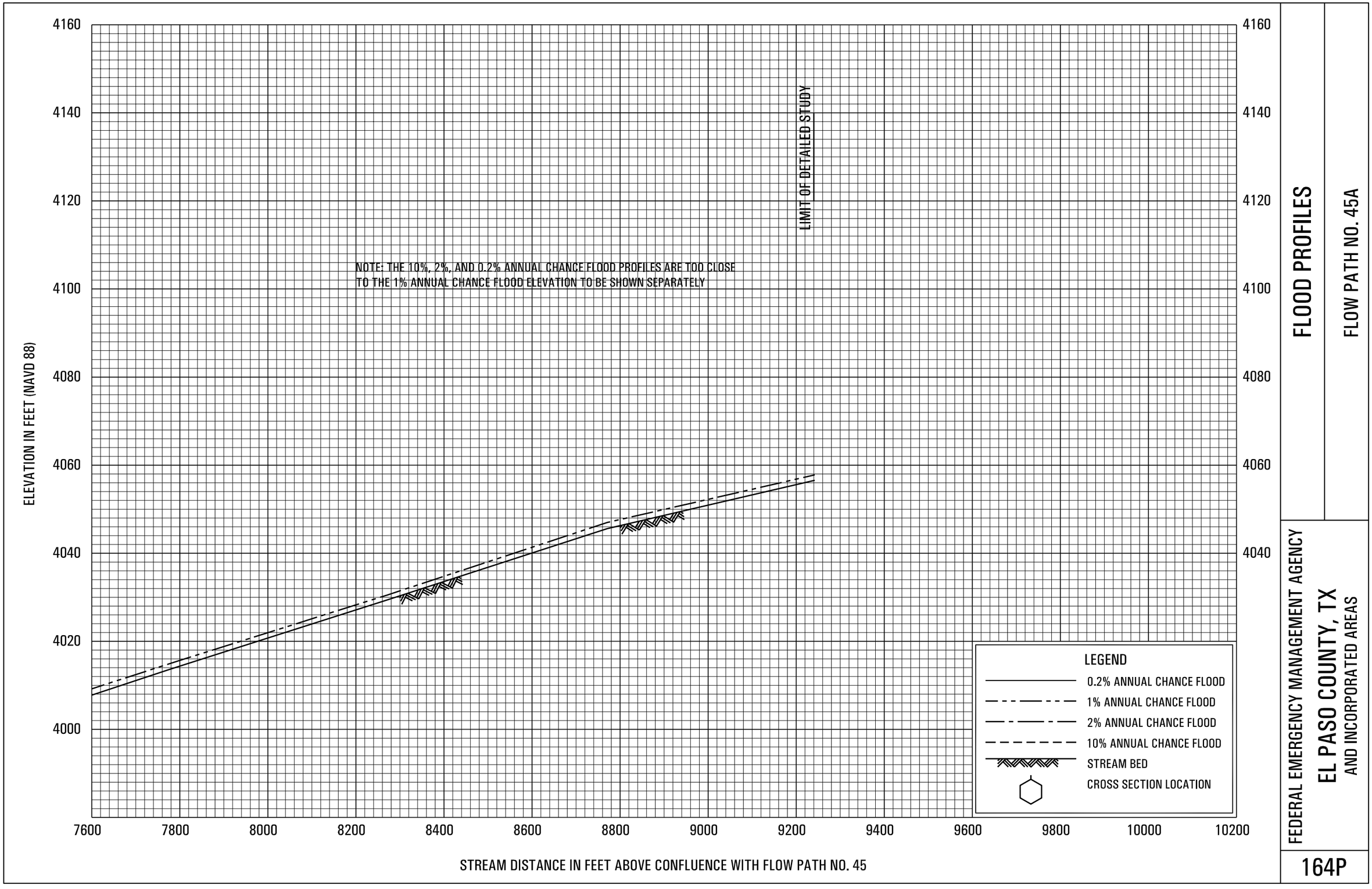
FLOOD PROFILES

FLOW PATH NO. 45A

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

163P



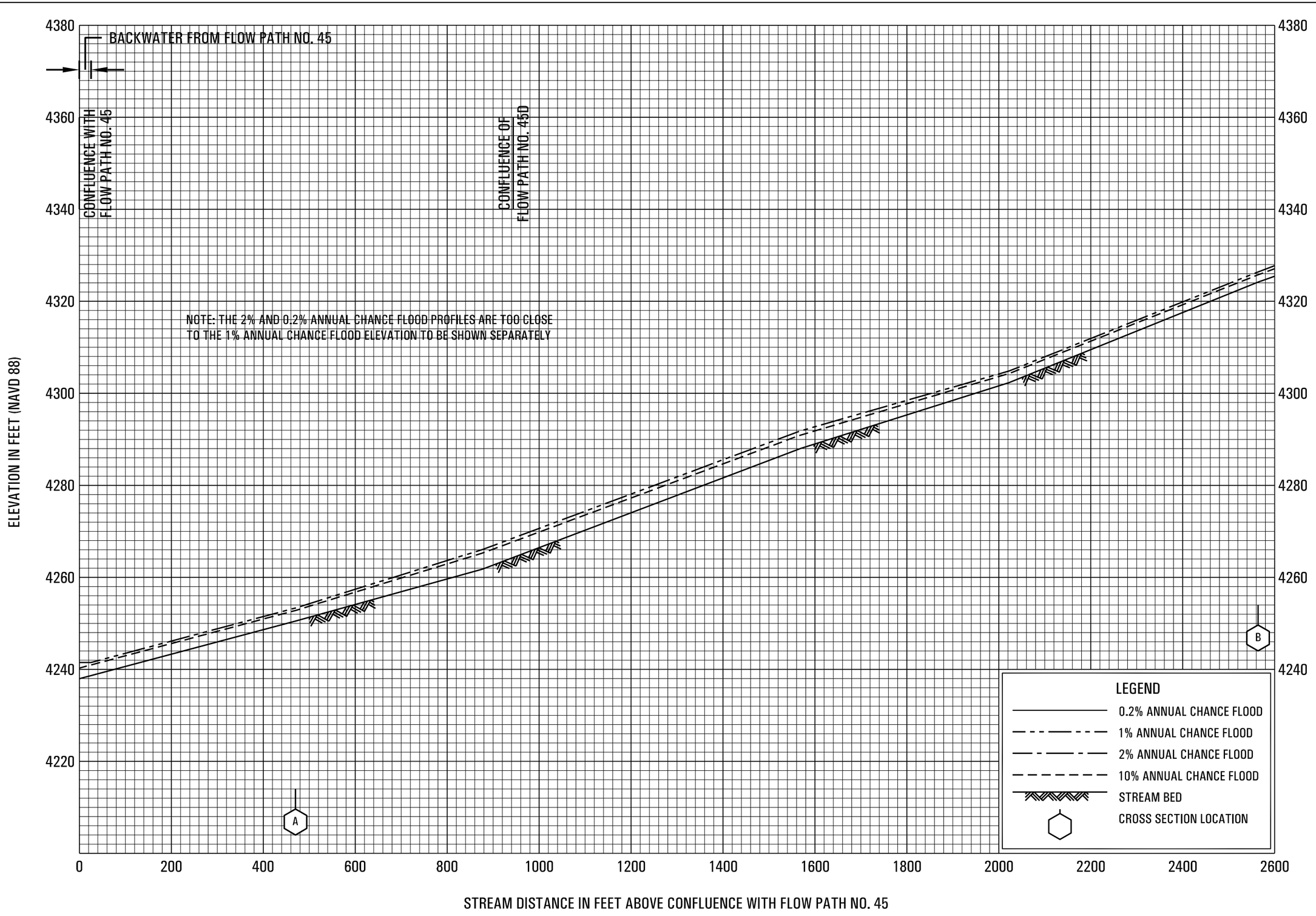
FLOOD PROFILES

FLOW PATH NO. 45A

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

164P



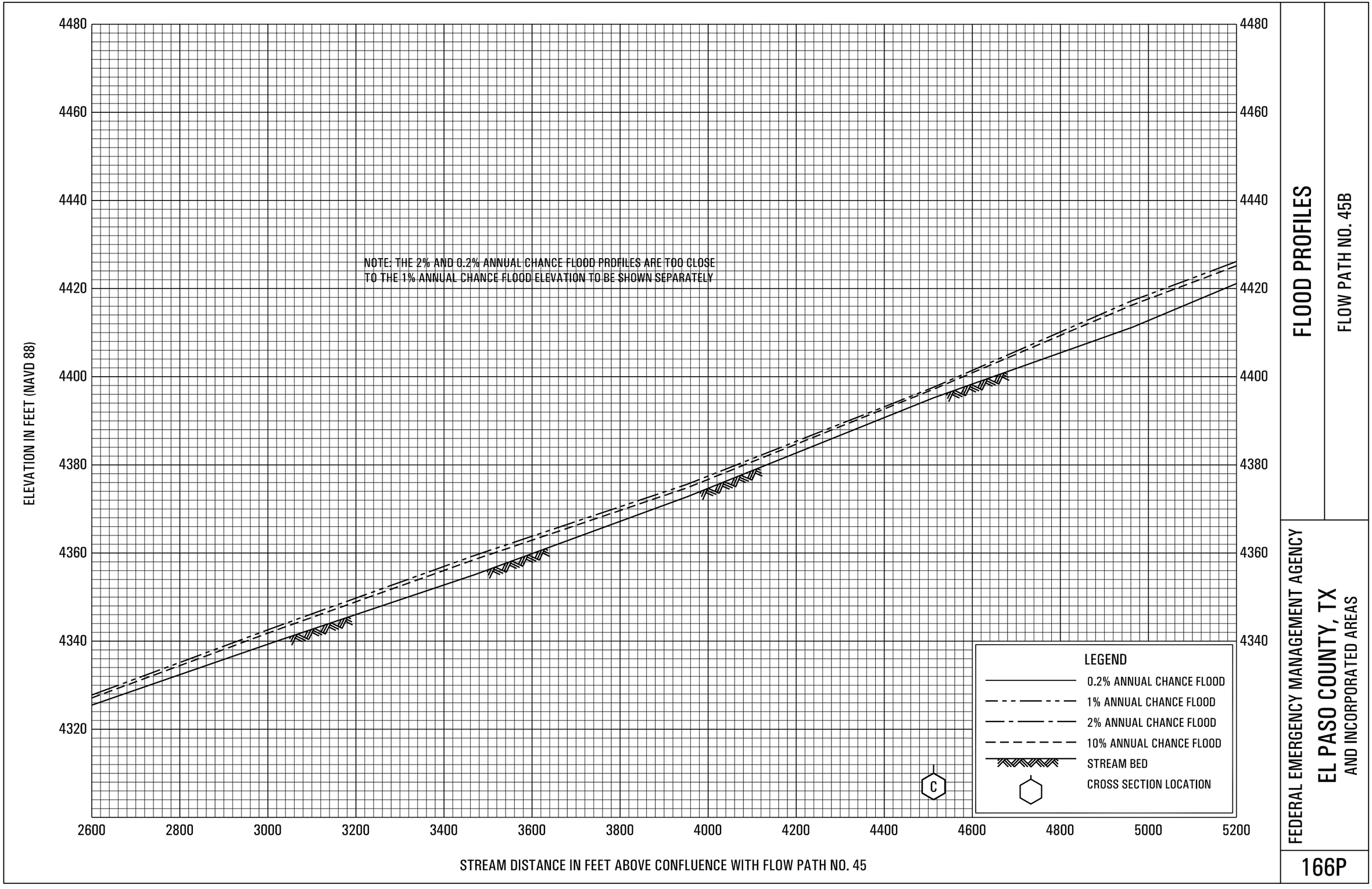
FLOOD PROFILES

FLOW PATH NO. 45B

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

165P



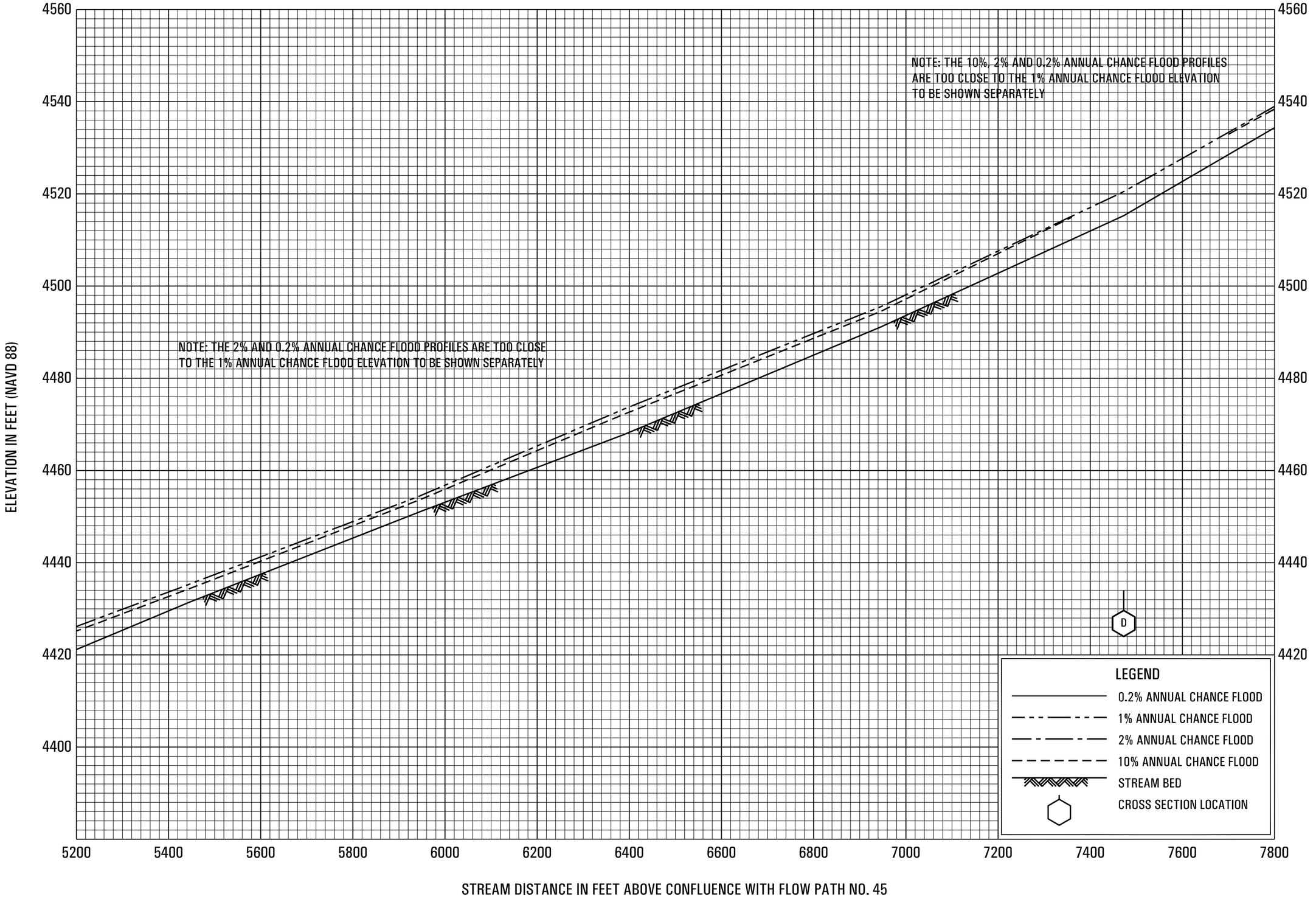
FLOOD PROFILES

FLOW PATH NO. 45B

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

166P

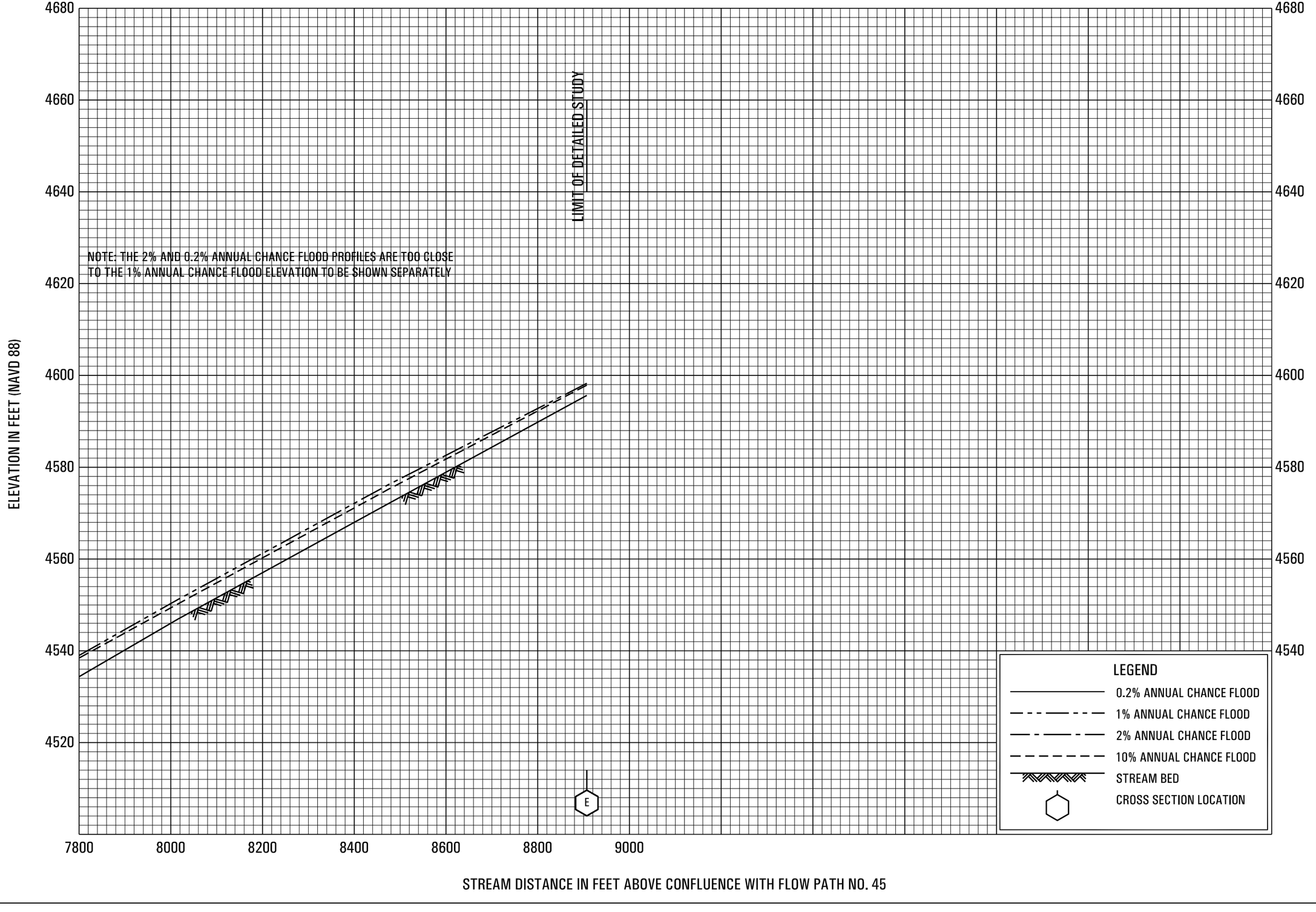


FLOOD PROFILES

FLOW PATH NO. 45B

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES

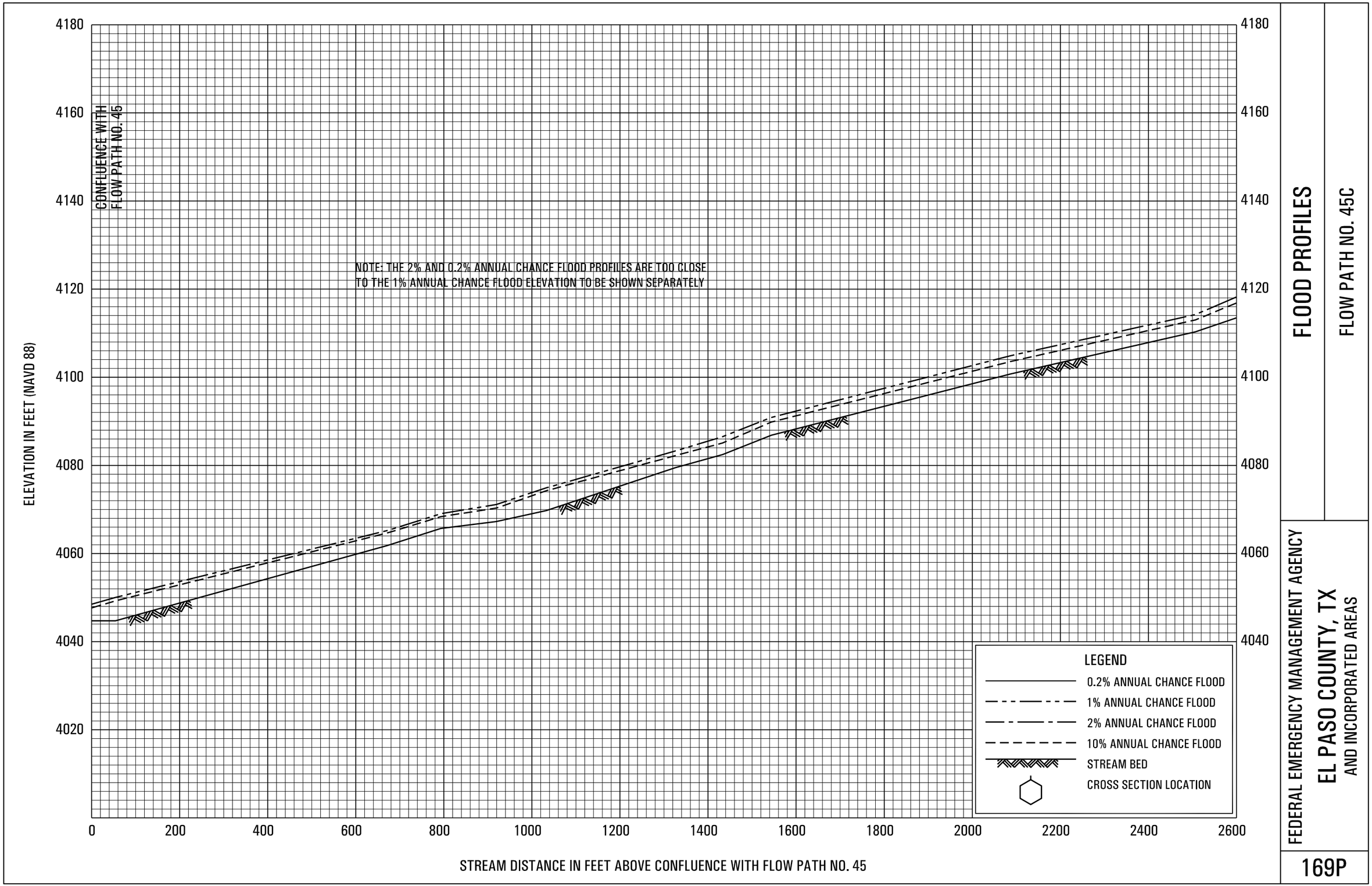
FLOW PATH NO. 45B

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX

AND INCORPORATED AREAS

168P



FLOOD PROFILES

FLOW PATH NO. 45C

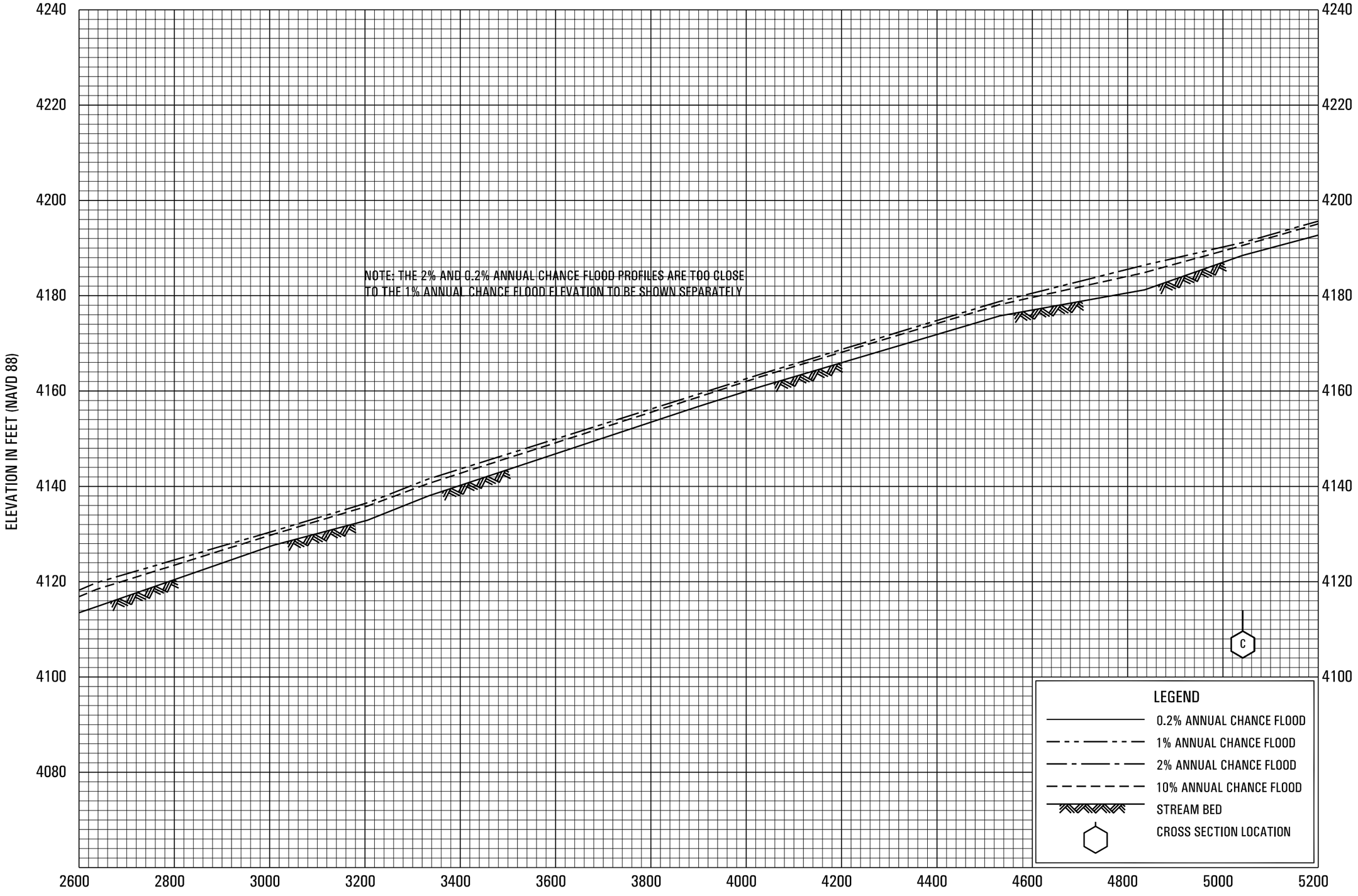
FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

169P

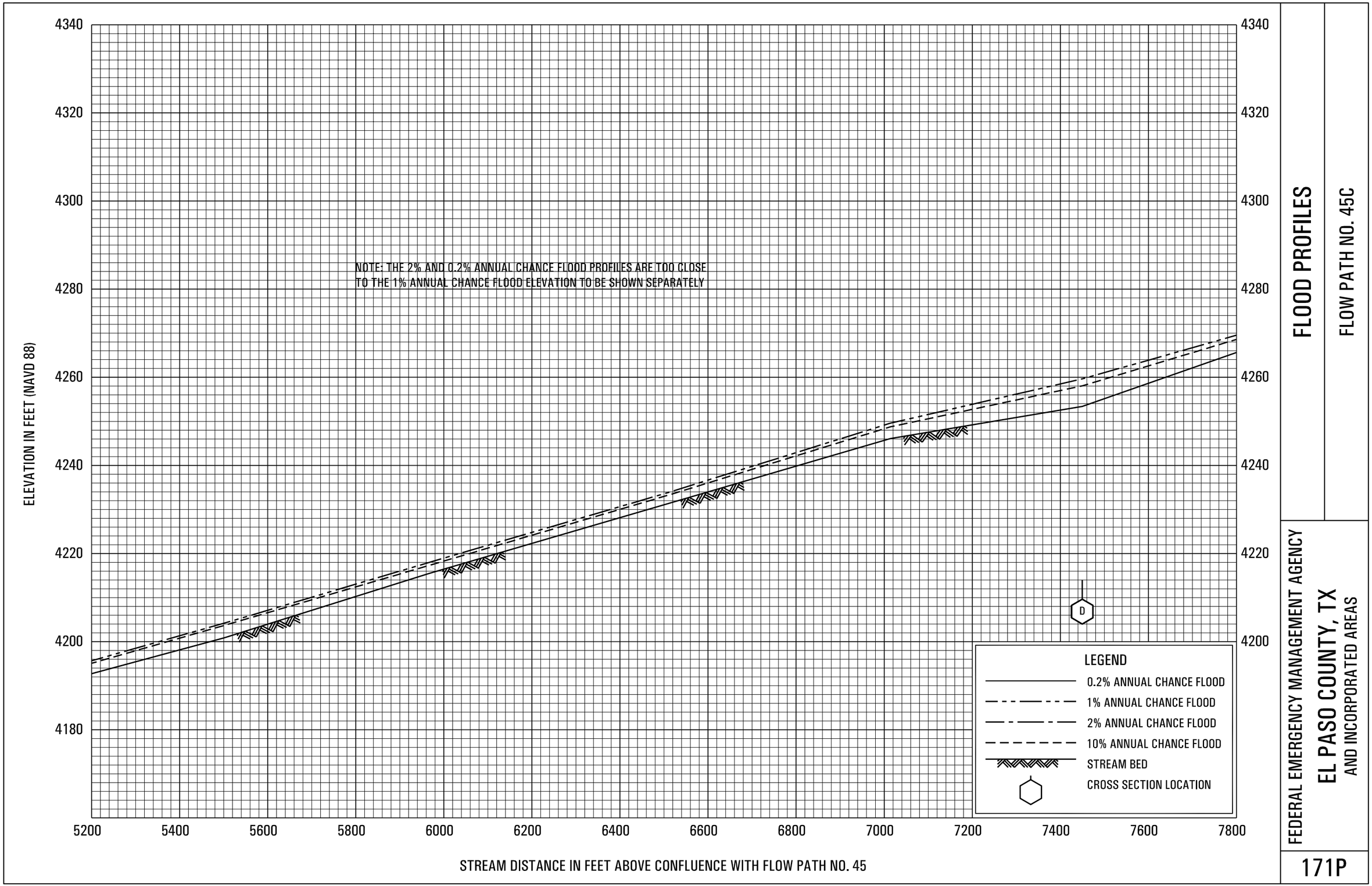
FLOOD PROFILES

FLOW PATH NO. 45C



FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



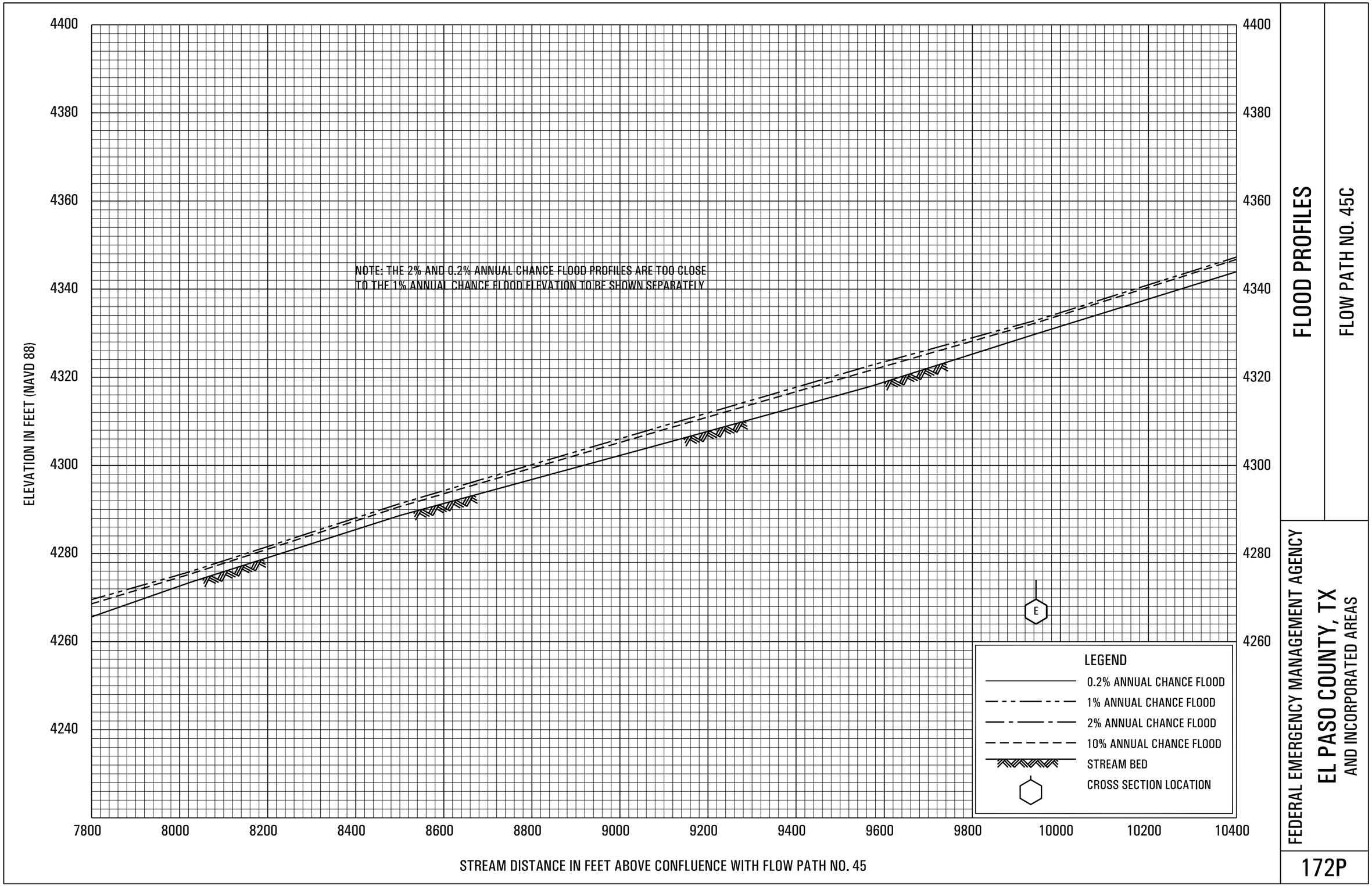
FLOOD PROFILES

FLOW PATH NO. 45C

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

171P



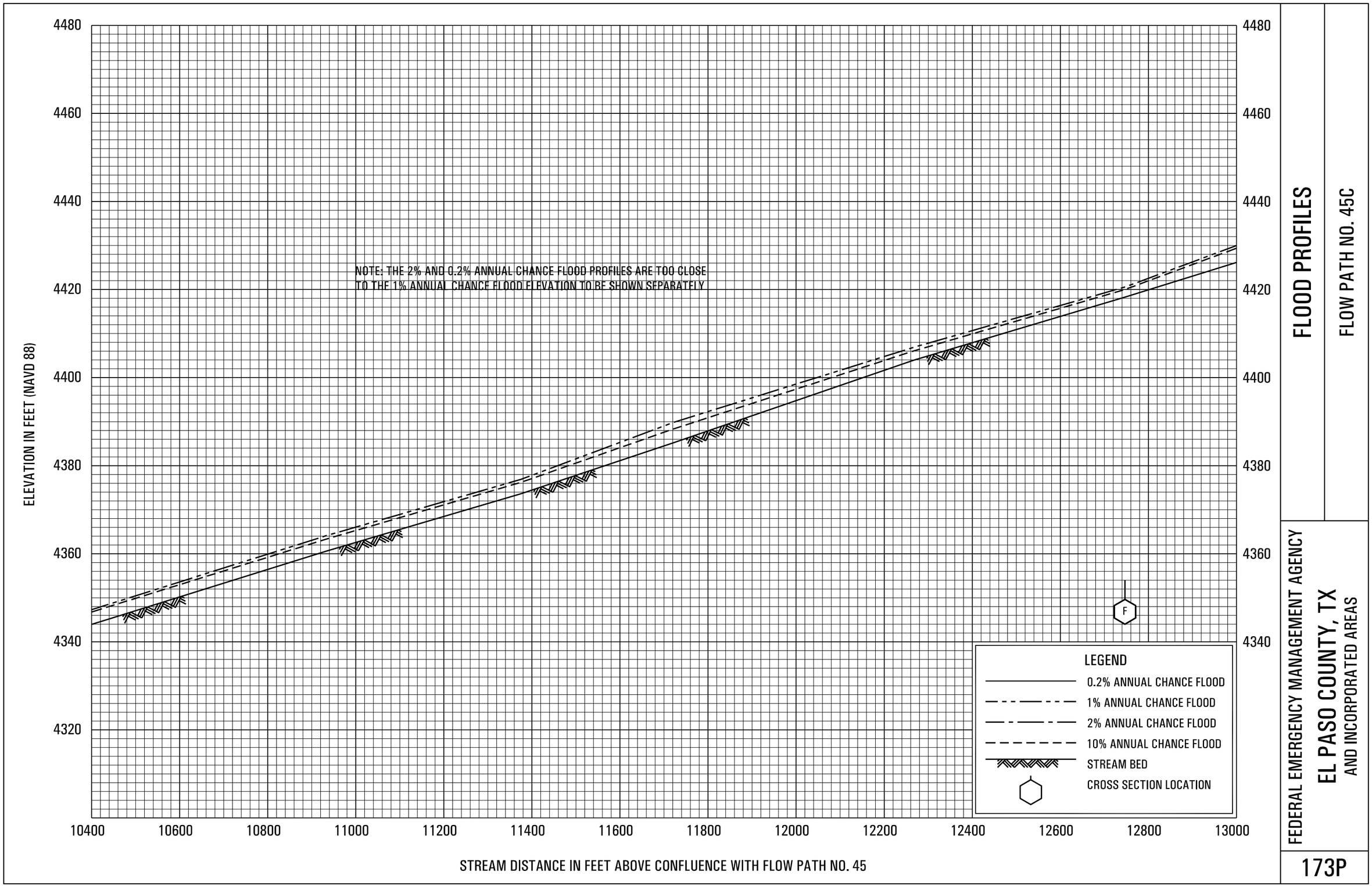
FLOOD PROFILES

FLOW PATH NO. 45C

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

172P



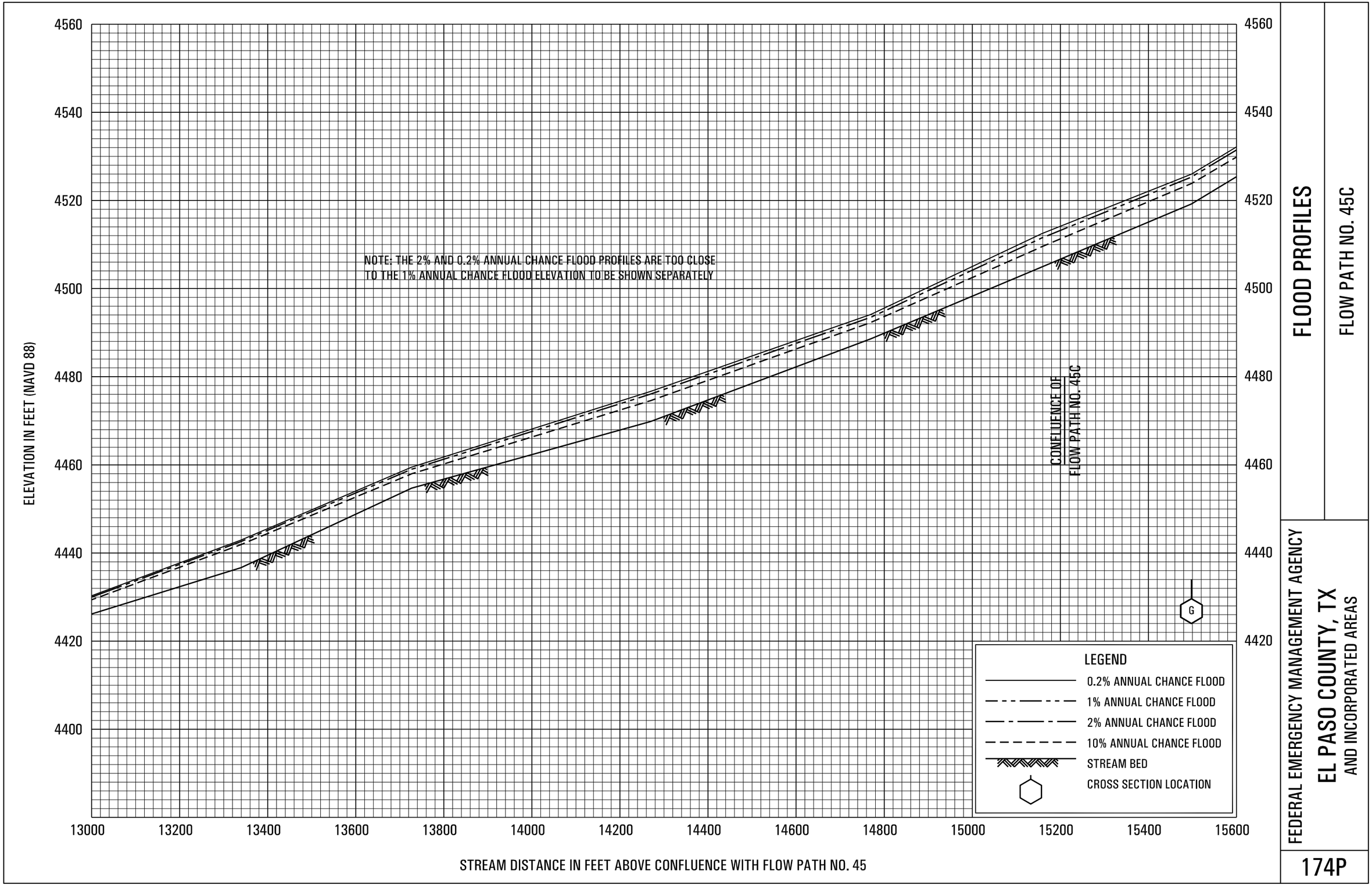
FLOOD PROFILES

FLOW PATH NO. 45C

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

173P



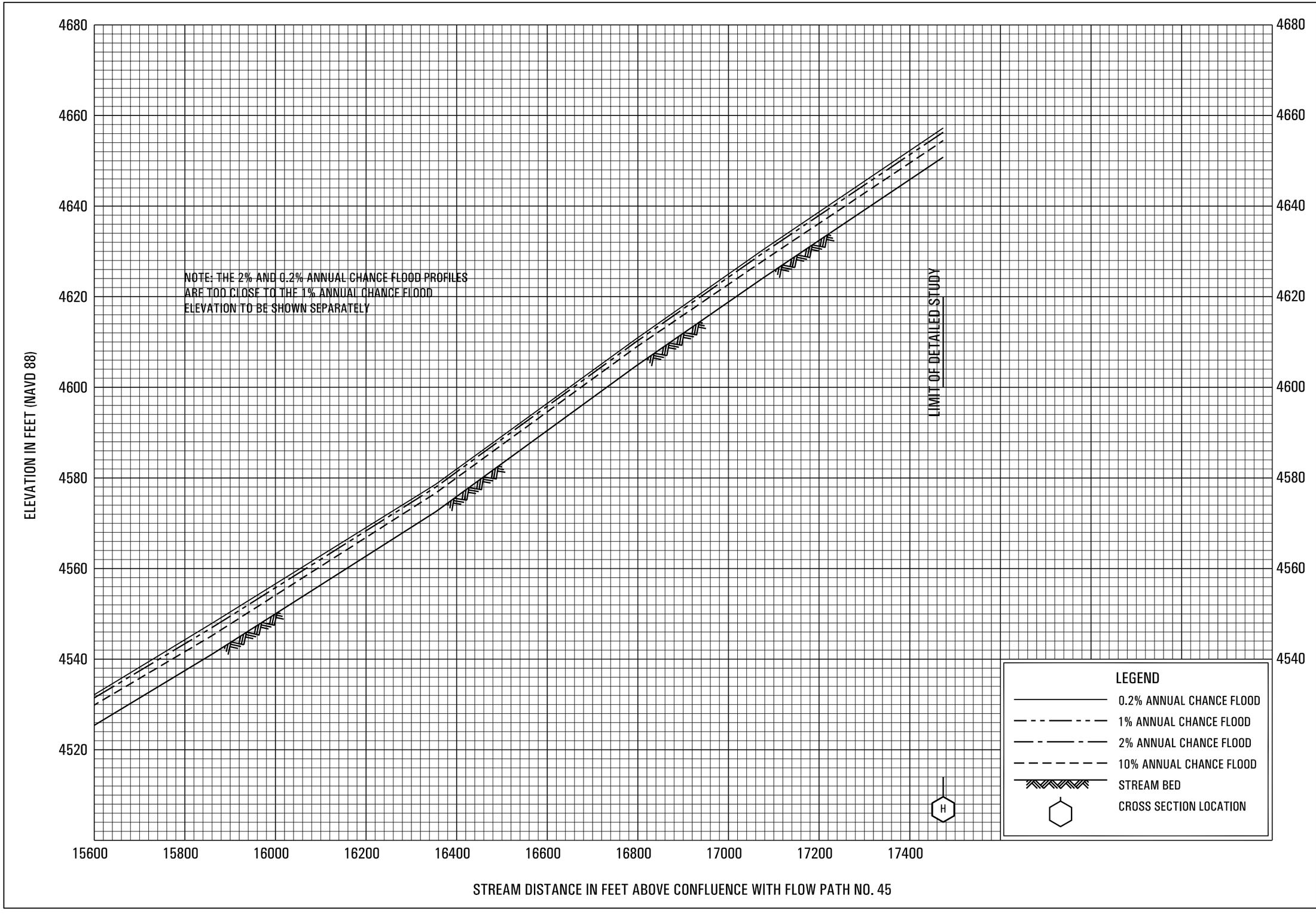
FLOOD PROFILES

FLOW PATH NO. 45C

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

174P

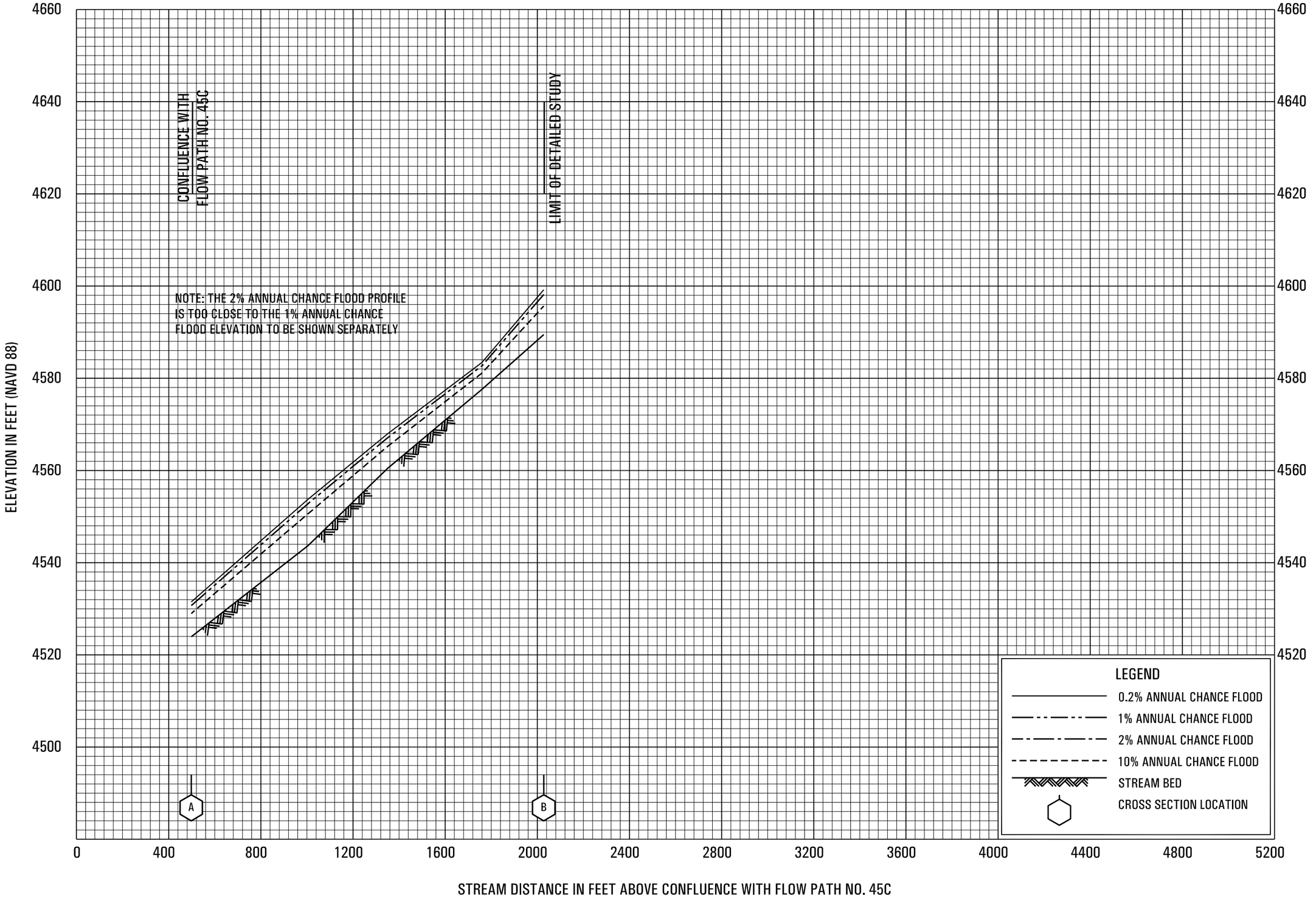


FLOOD PROFILES

FLOW PATH NO. 45C

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

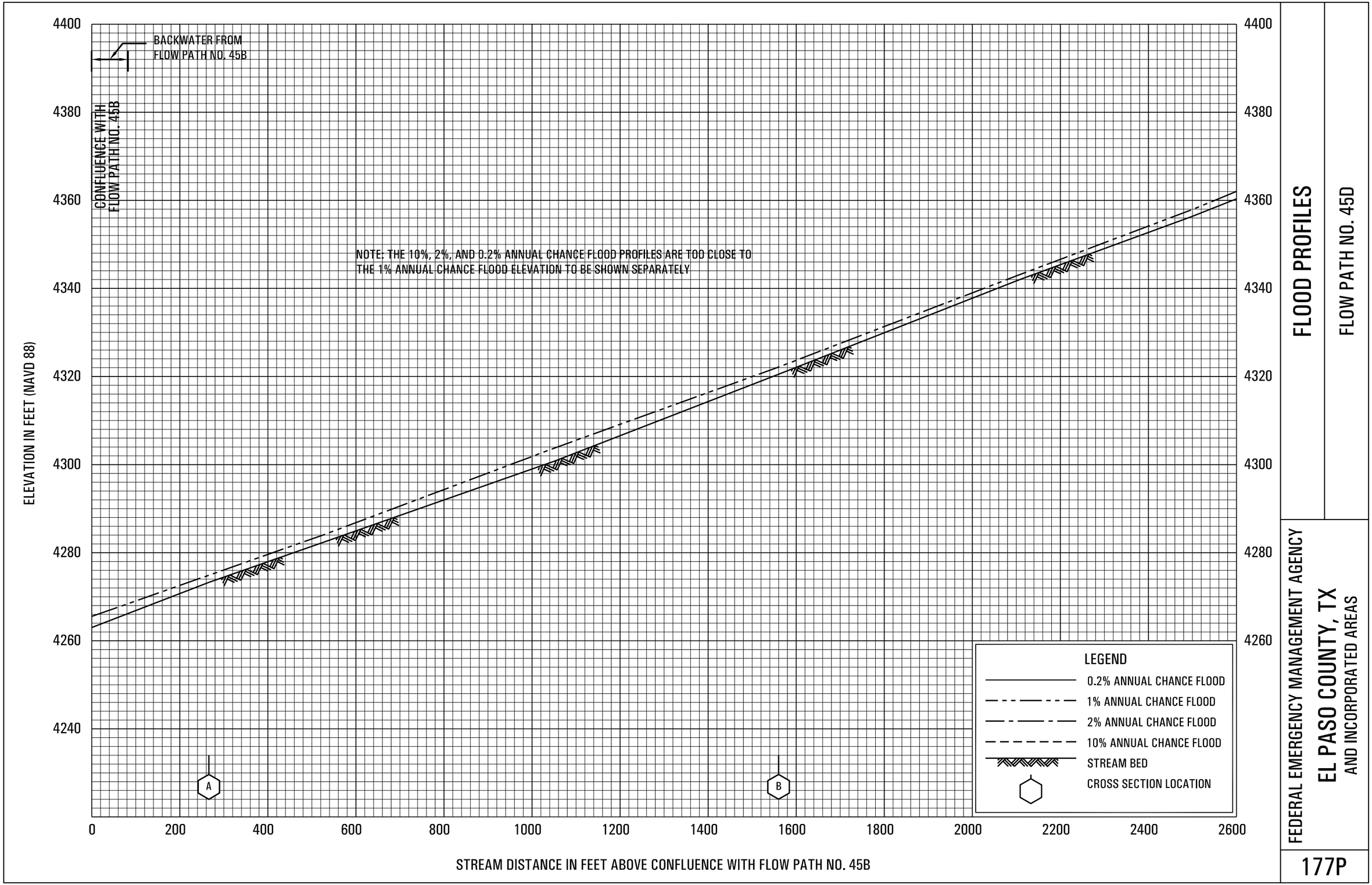


FLOOD PROFILES

FLOW PATH NO. 45C TRIBUTARY 1

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



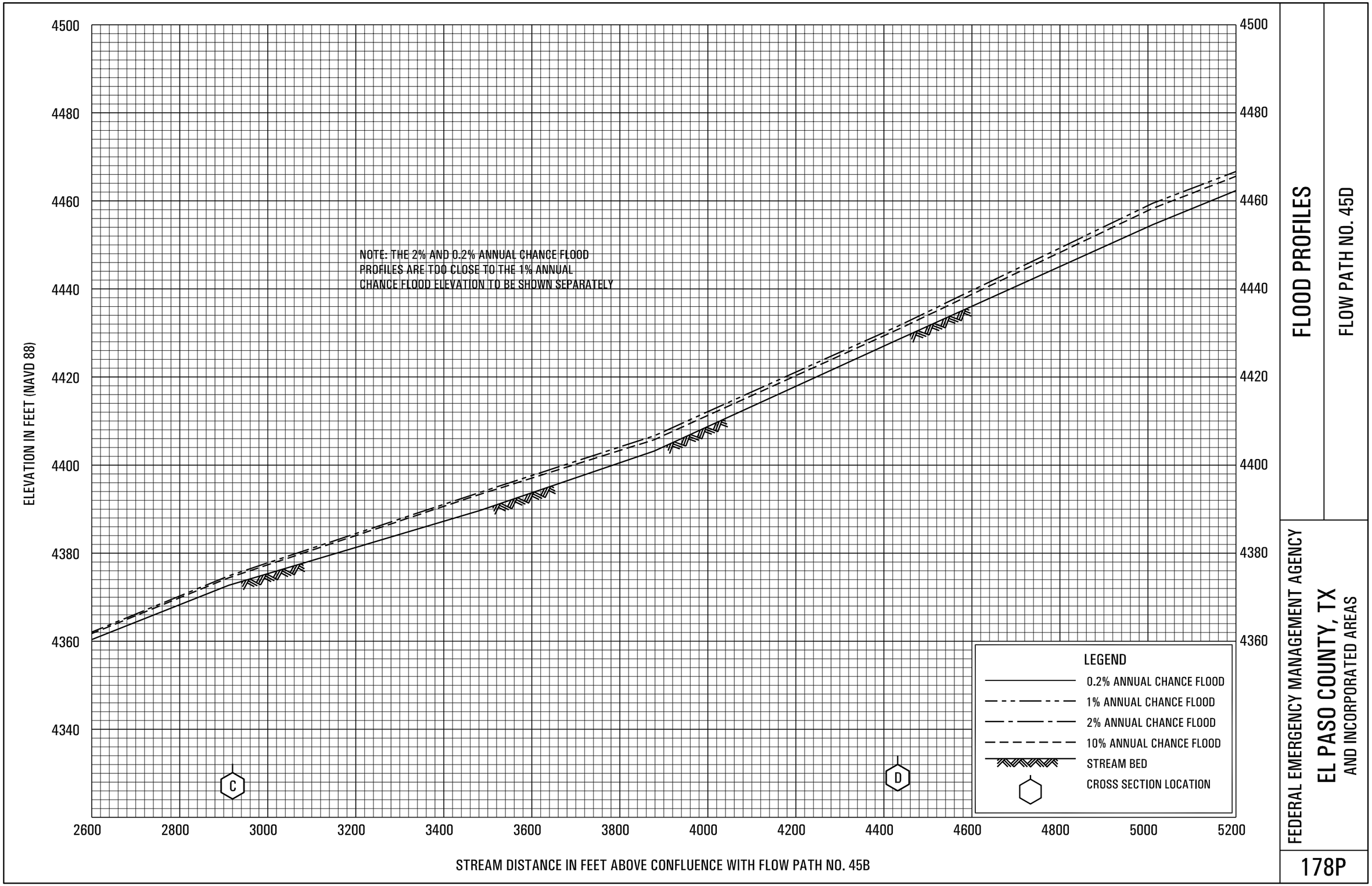
FLOOD PROFILES

FLOW PATH NO. 45D

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

177P



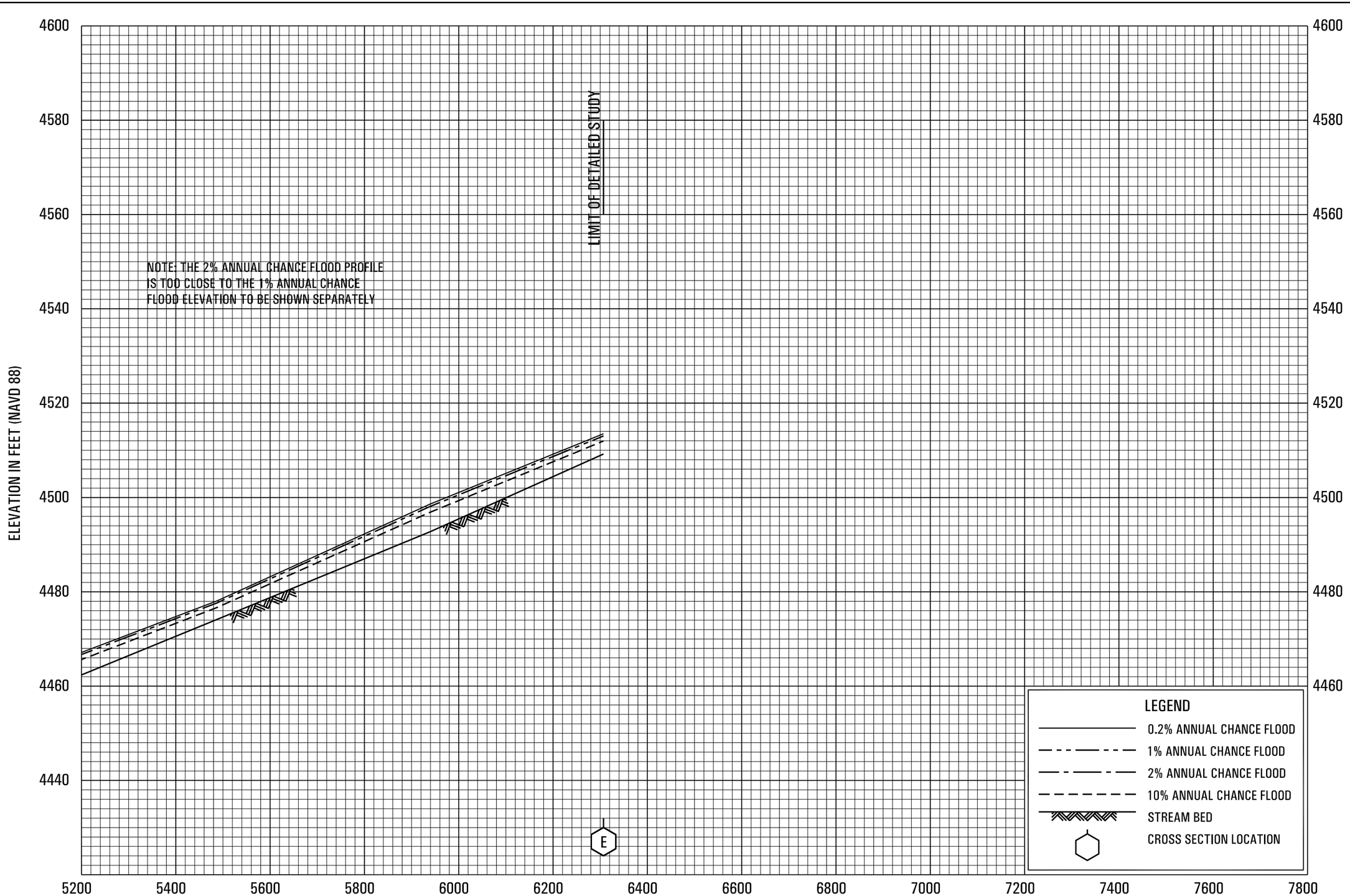
FLOOD PROFILES

FLOW PATH NO. 45D

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

178P



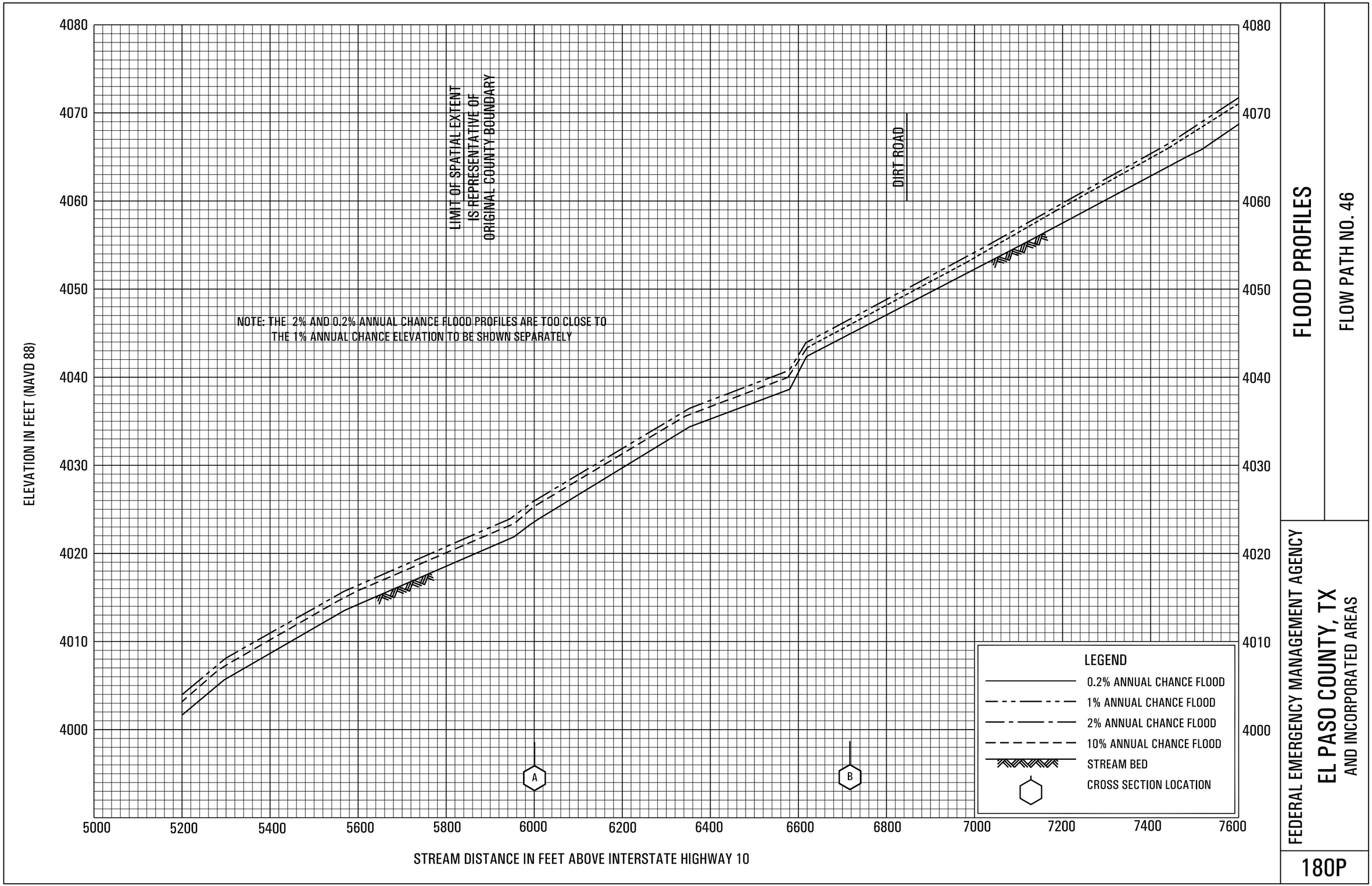
FLOOD PROFILES

FLOW PATH NO. 45D

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

179P



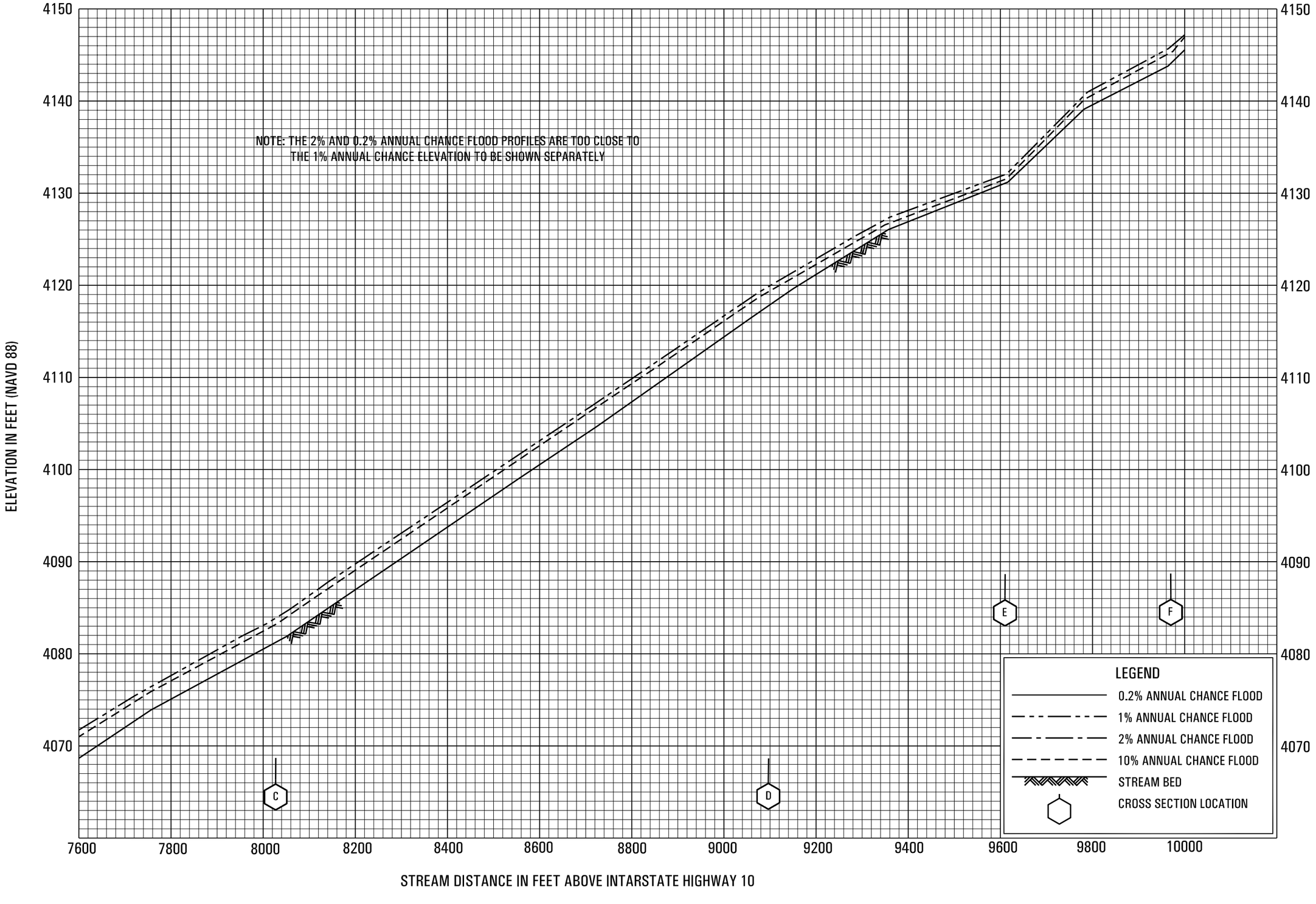
FLOOD PROFILES

FLOW PATH NO. 46

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

180P



FLOOD PROFILES

FLOW PATH NO. 46

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

181P

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

ELEVATION IN FEET (NAVD 88)

4230
4220
4210
4200
4190
4180
4170
4160
4150

10000 10200 10400 10600 10800 11000 11200 11400 11600

STREAM DISTANCE IN FEET ABOVE INTERSTATE HIGHWAY 10

G H I

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

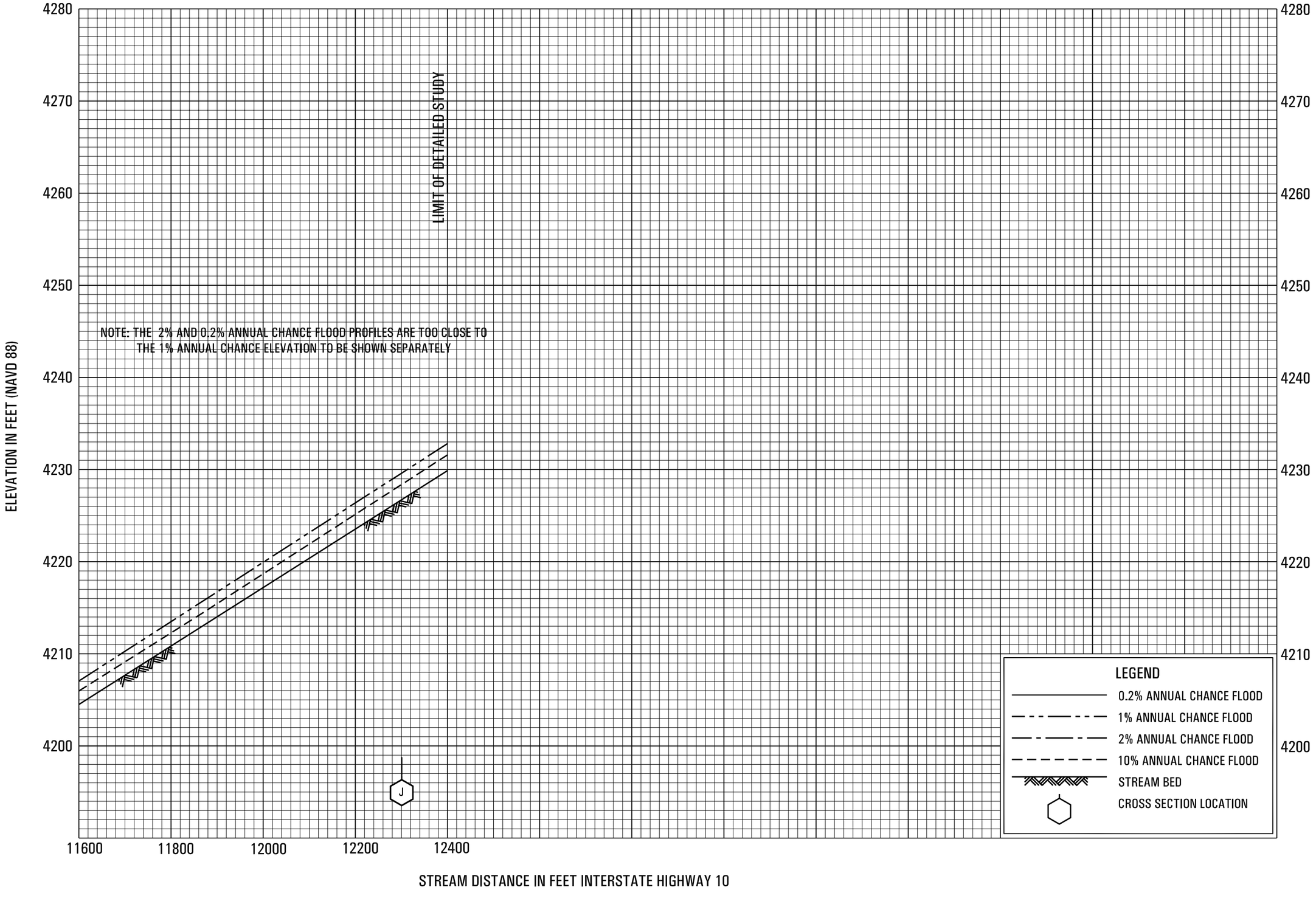
FLOOD PROFILES

FLOW PATH NO. 46

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

182P



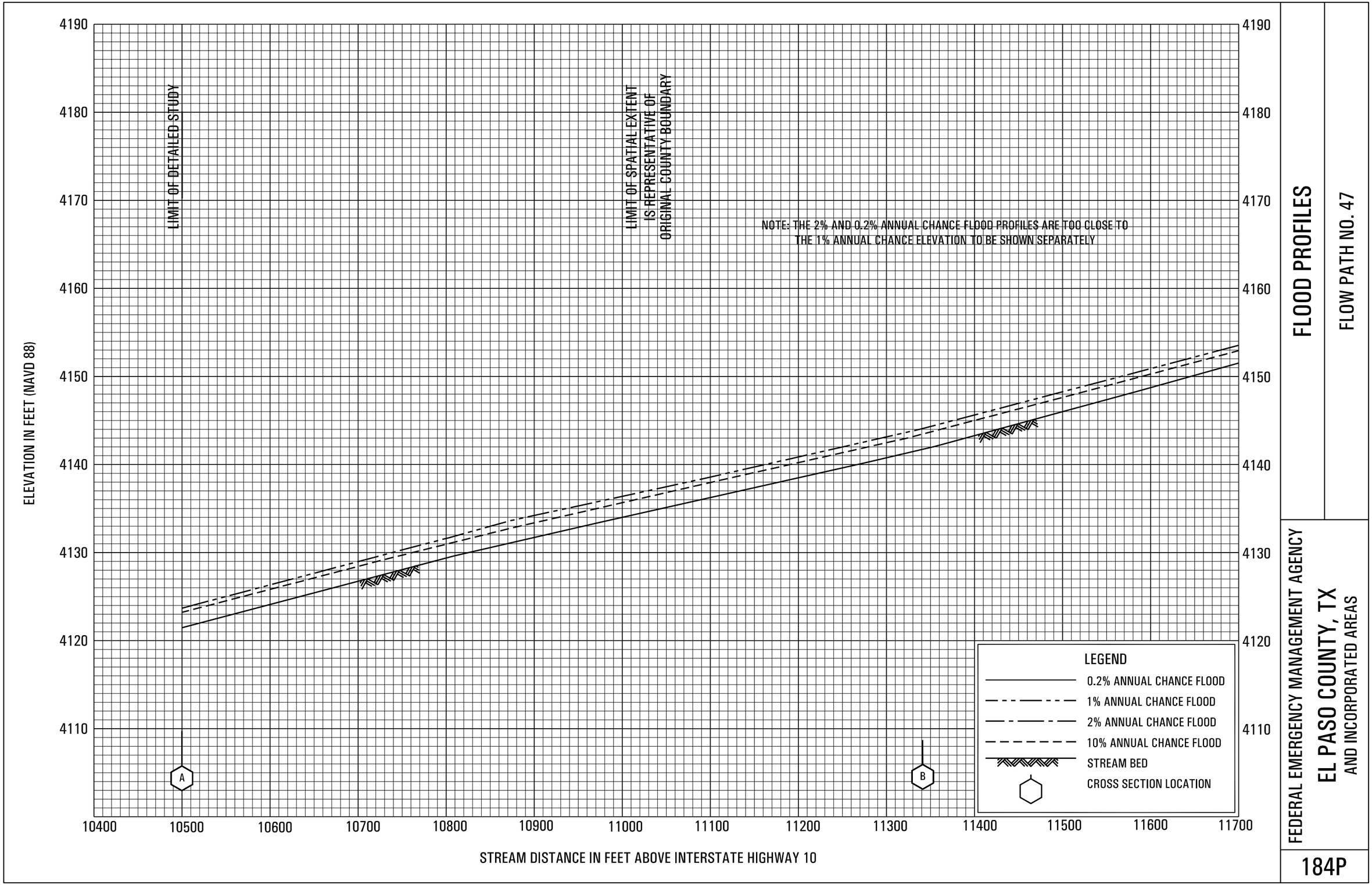
FLOOD PROFILES

FLOW PATH NO. 46

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

183P



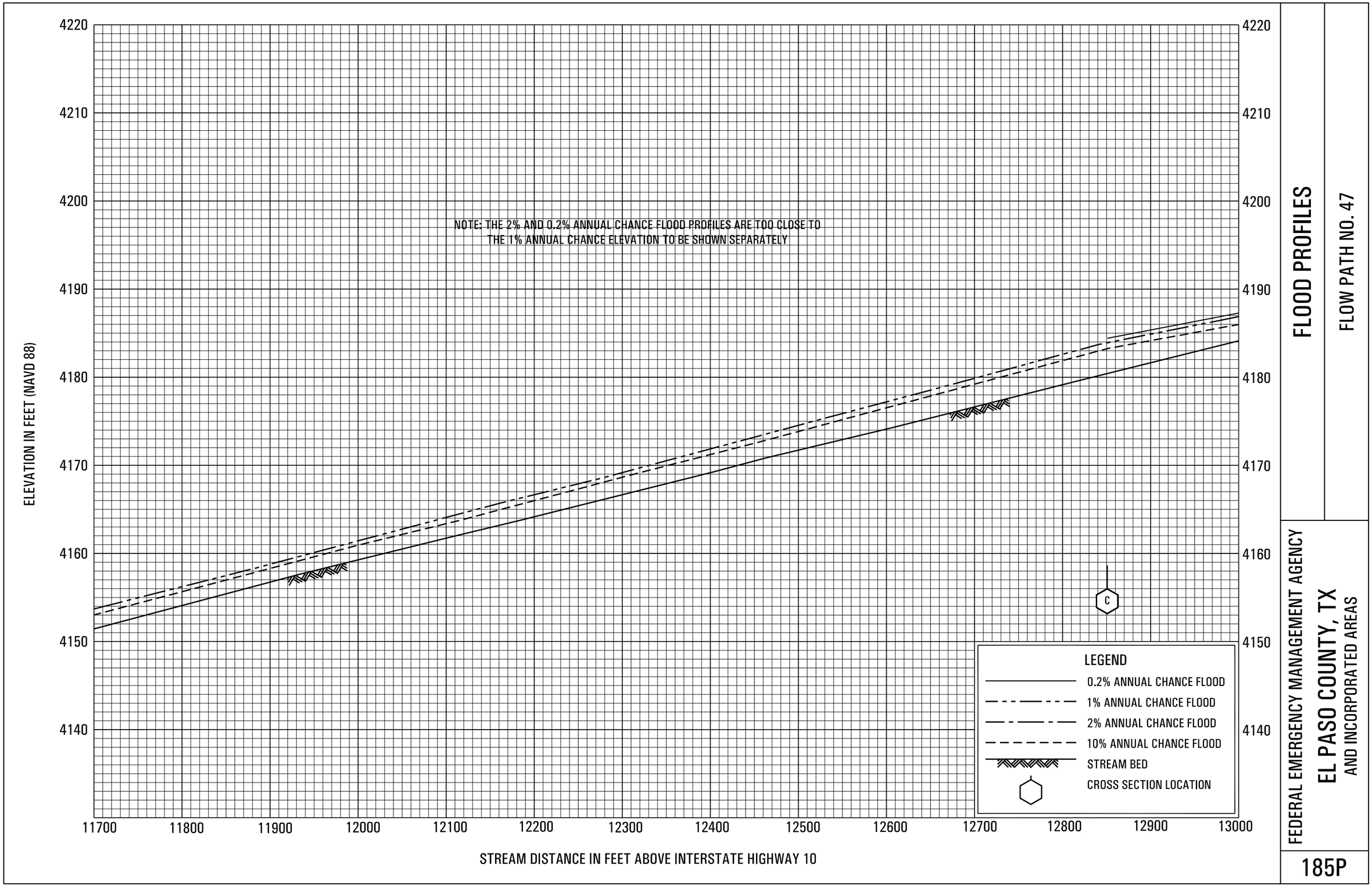
FLOOD PROFILES

FLOW PATH NO. 47

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

184P



FLOOD PROFILES

FLOW PATH NO. 47

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

185P

NOTE: THE 2% ANNUAL CHANCE FLOOD PROFILE IS TOO CLOSE TO THE 1% ANNUAL CHANCE ELEVATION TO BE SHOWN SEPARATELY

ELEVATION IN FEET (NAVD 88)

4250
4240
4230
4220
4210
4200
4190
4180
4170

13000 13100 13200 13300 13400 13500 13600 13700 13800 13900 14000 14100 14200 14300

STREAM DISTANCE IN FEET ABOVE INTERSTATE HIGHWAY 10

D

E

LEGEND

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

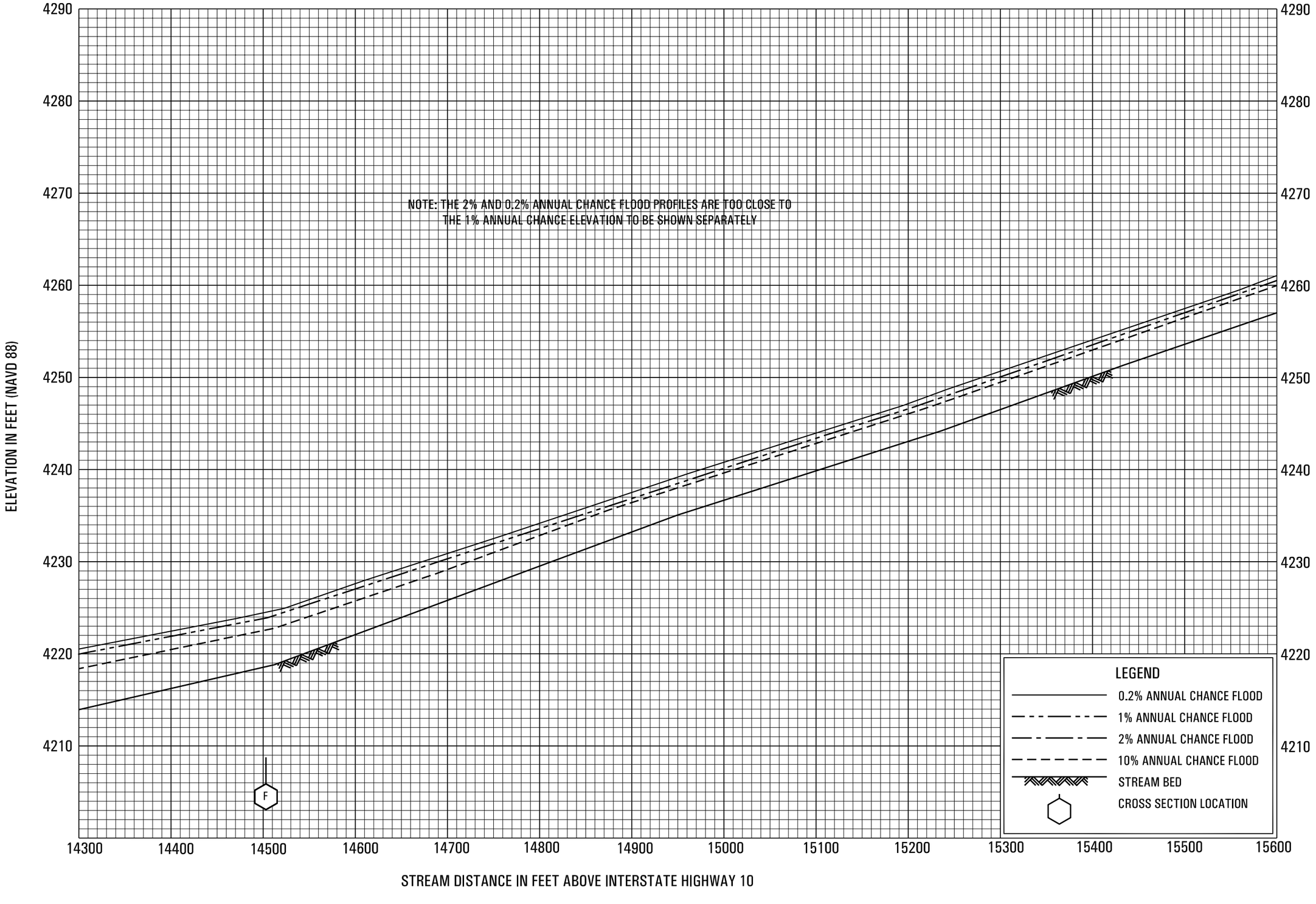
FLOOD PROFILES

FLOW PATH NO. 47

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

186P



FLOOD PROFILES

FLOW PATH NO. 47

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

187P

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

ELEVATION IN FEET (NAVD 88)

4330
4320
4310
4300
4290
4280
4270
4260
4250

15600 15700 15800 15900 16000 16100 16200 16300 16400 16500 16600 16700 16800 16900

STREAM DISTANCE IN FEET ABOVE INTARSTATE HIGHWAY 10

G

H

LEGEND

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

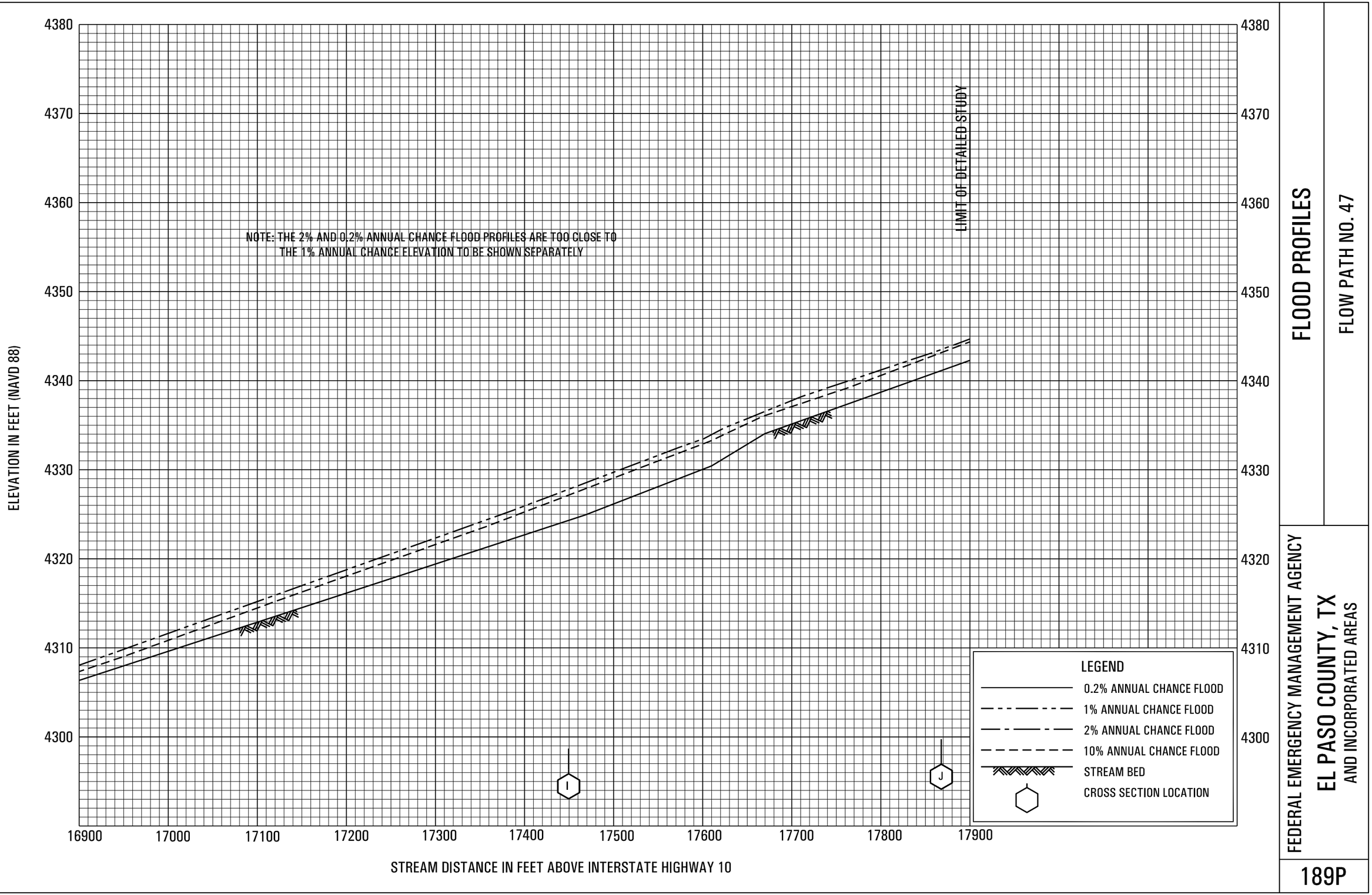
FLOOD PROFILES

FLOW PATH NO. 47

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

188P



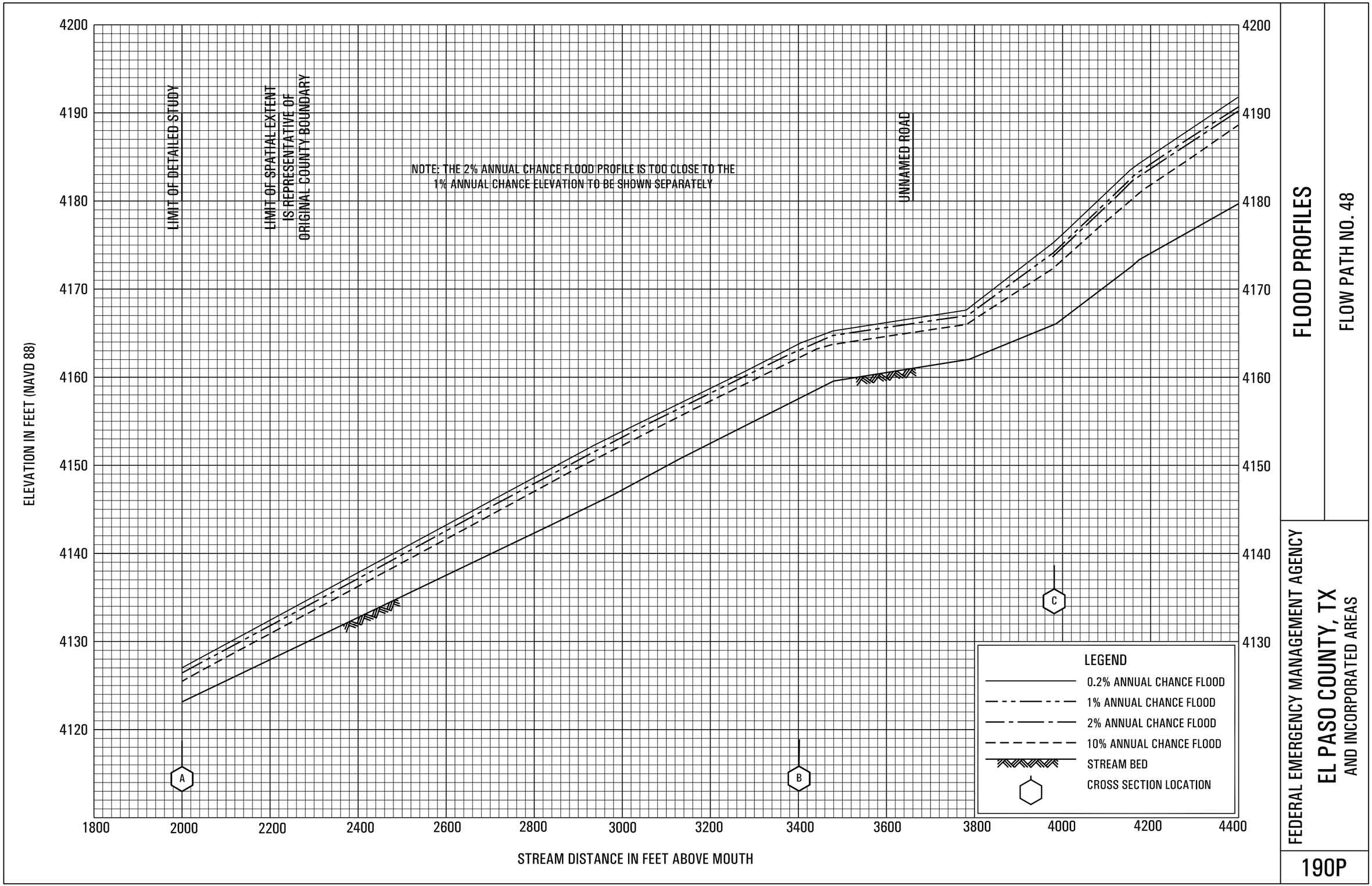
FLOOD PROFILES

FLOW PATH NO. 47

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

189P

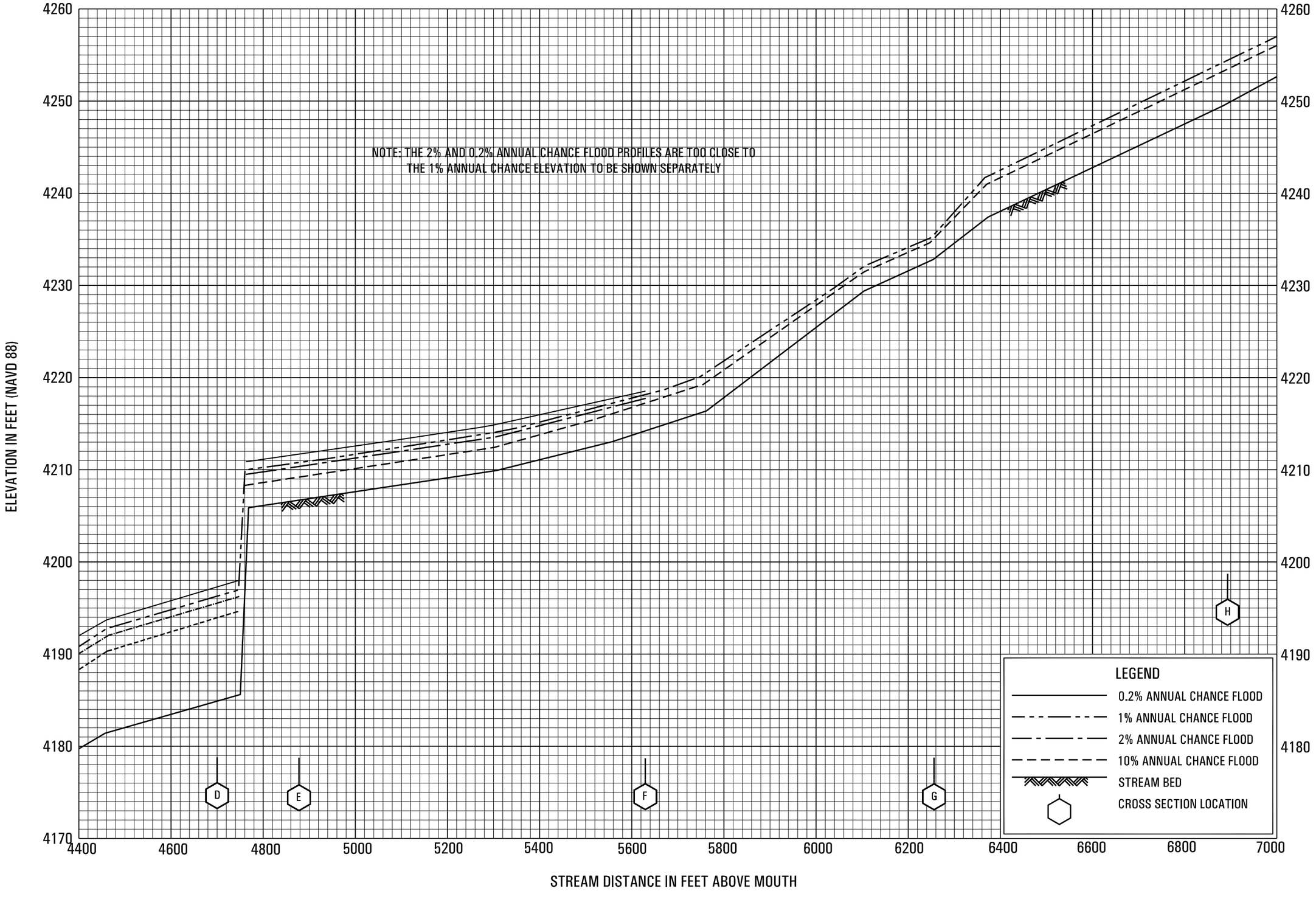


FLOOD PROFILES

FLOW PATH NO. 48

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES

FLOW PATH NO. 48

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

191P

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

ELEVATION IN FEET (NAVD 88)

4330
4320
4310
4300
4290
4280
4270
4260
4250

7000 7200 7400 7600 7800 8000 8200 8400 8600 8800

STREAM DISTANCE IN FEET ABOVE MOUTH

I

J

LEGEND

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

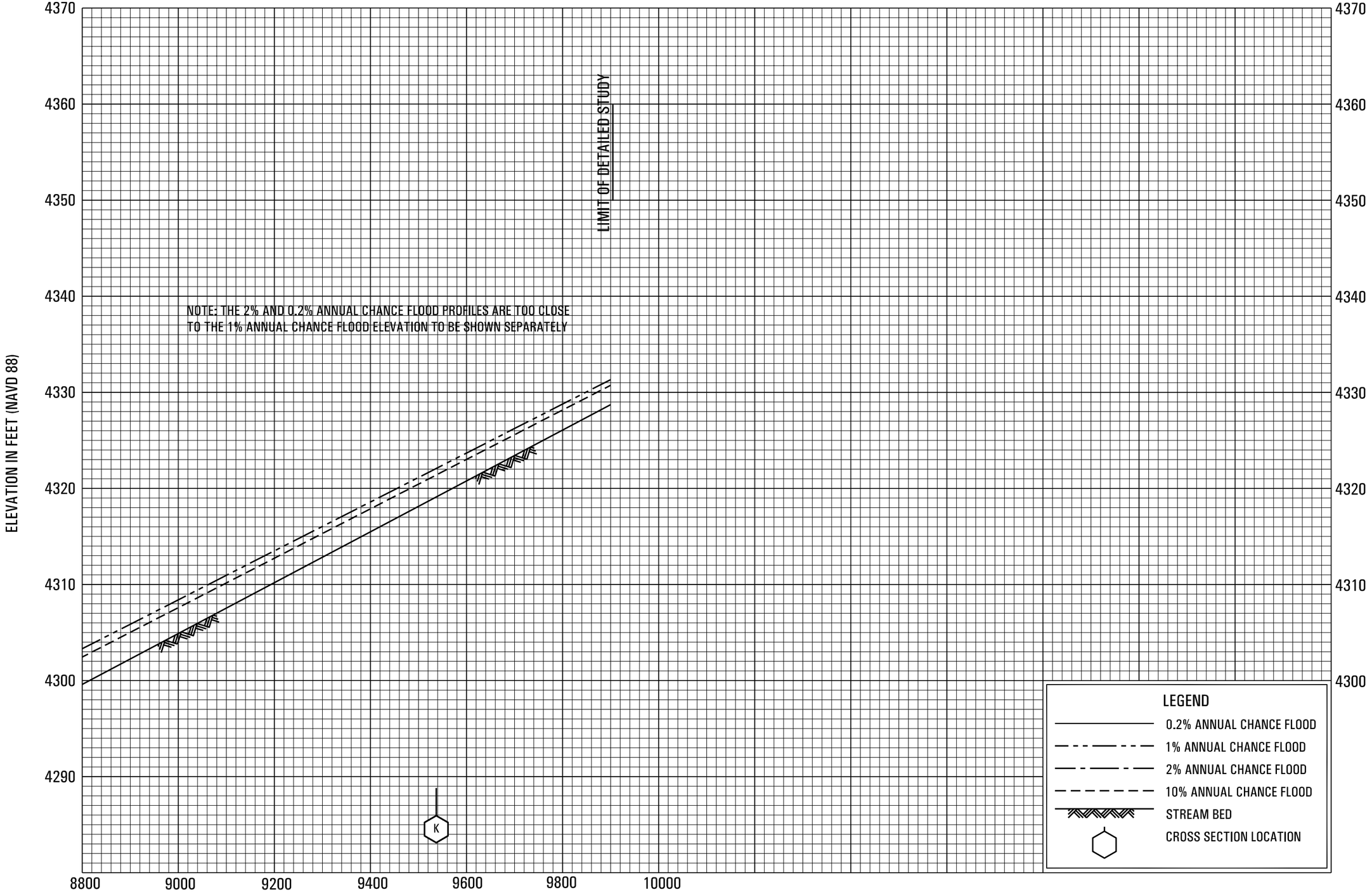
FLOOD PROFILES

FLOW PATH NO. 48

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

192P



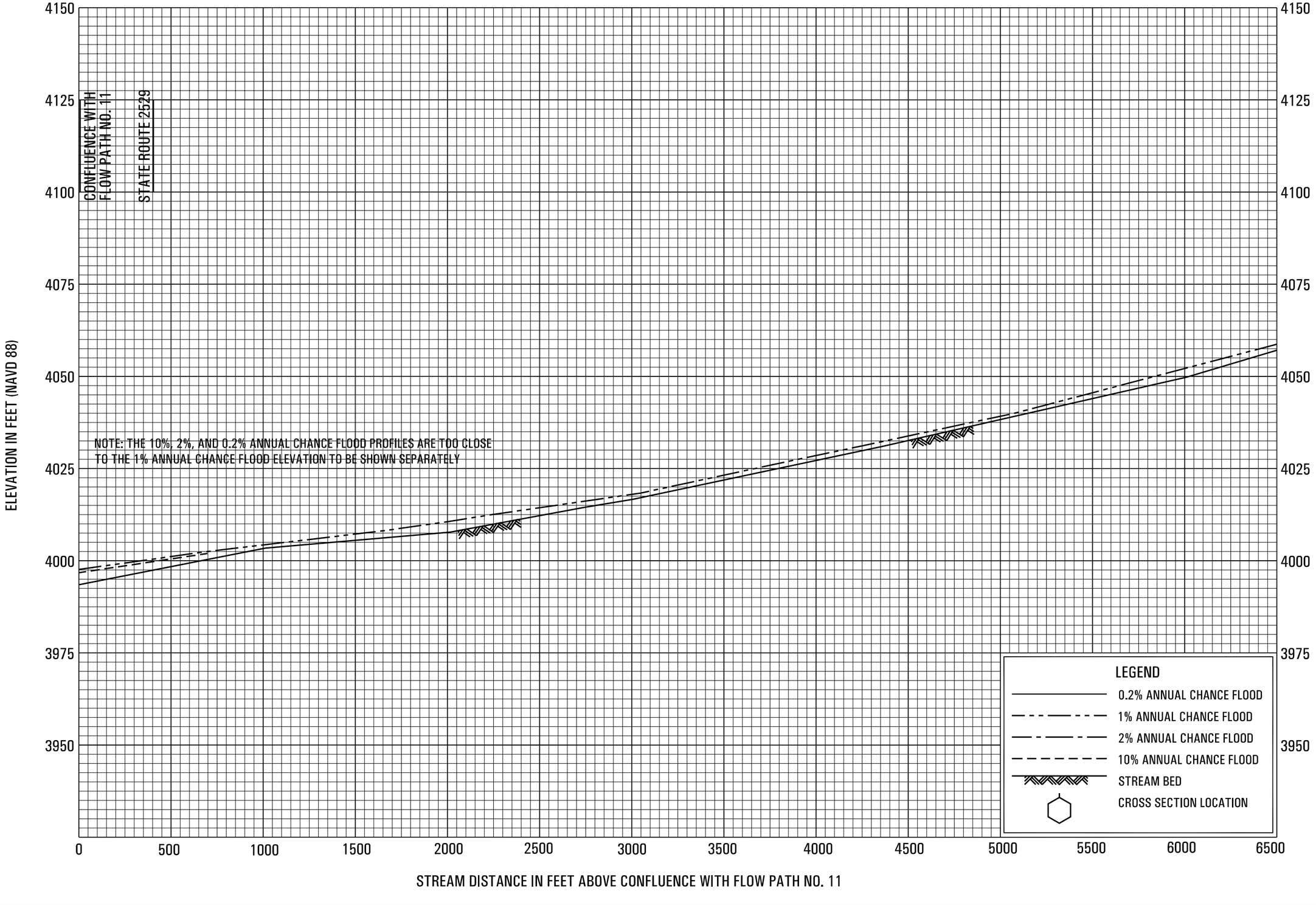
FLOOD PROFILES

FLOW PATH NO. 48

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

193P



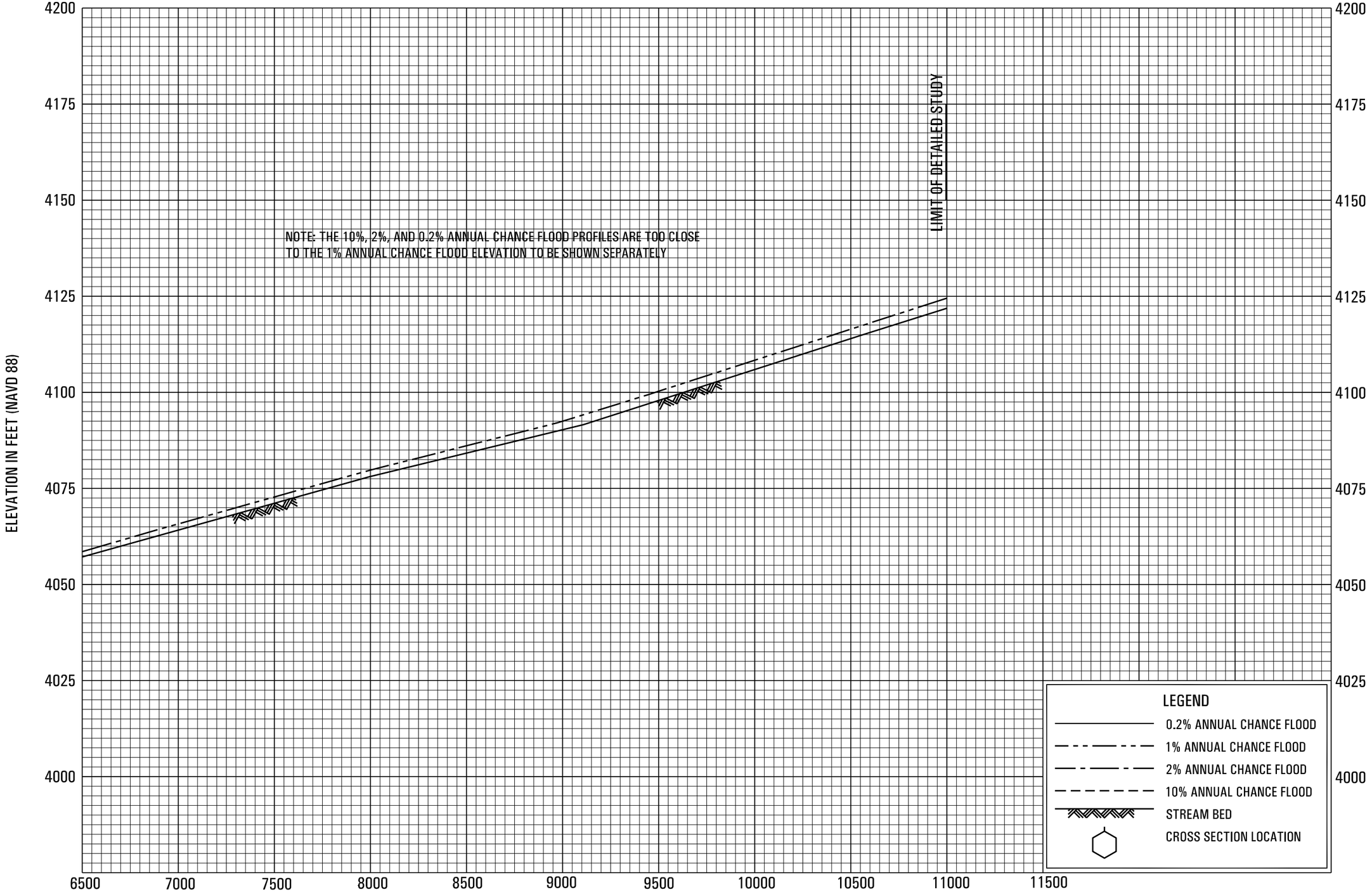
FLOOD PROFILES

FLOW PATH NO. 54

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

194P



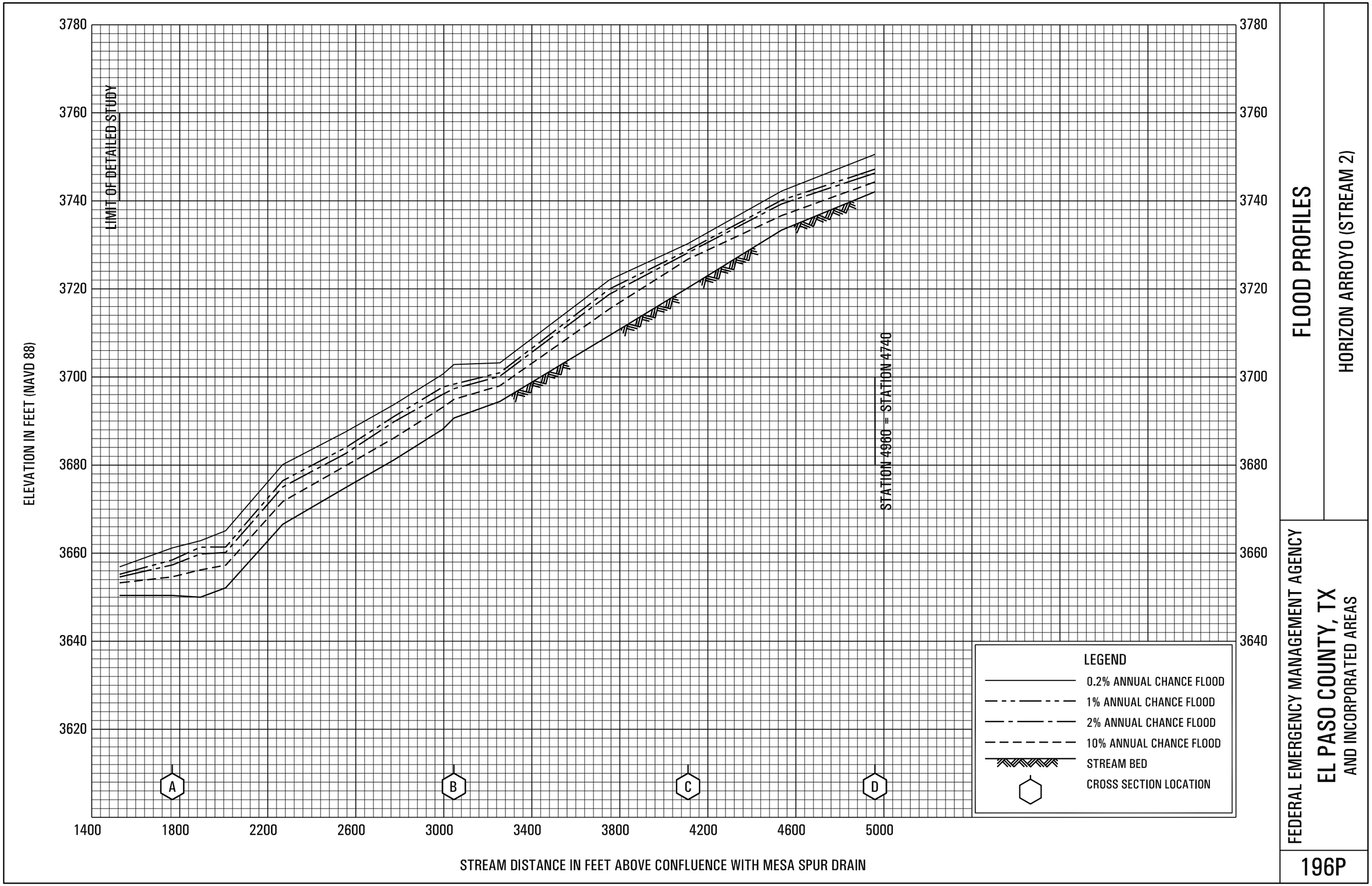
FLOOD PROFILES

FLOW PATH NO. 54

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

195P



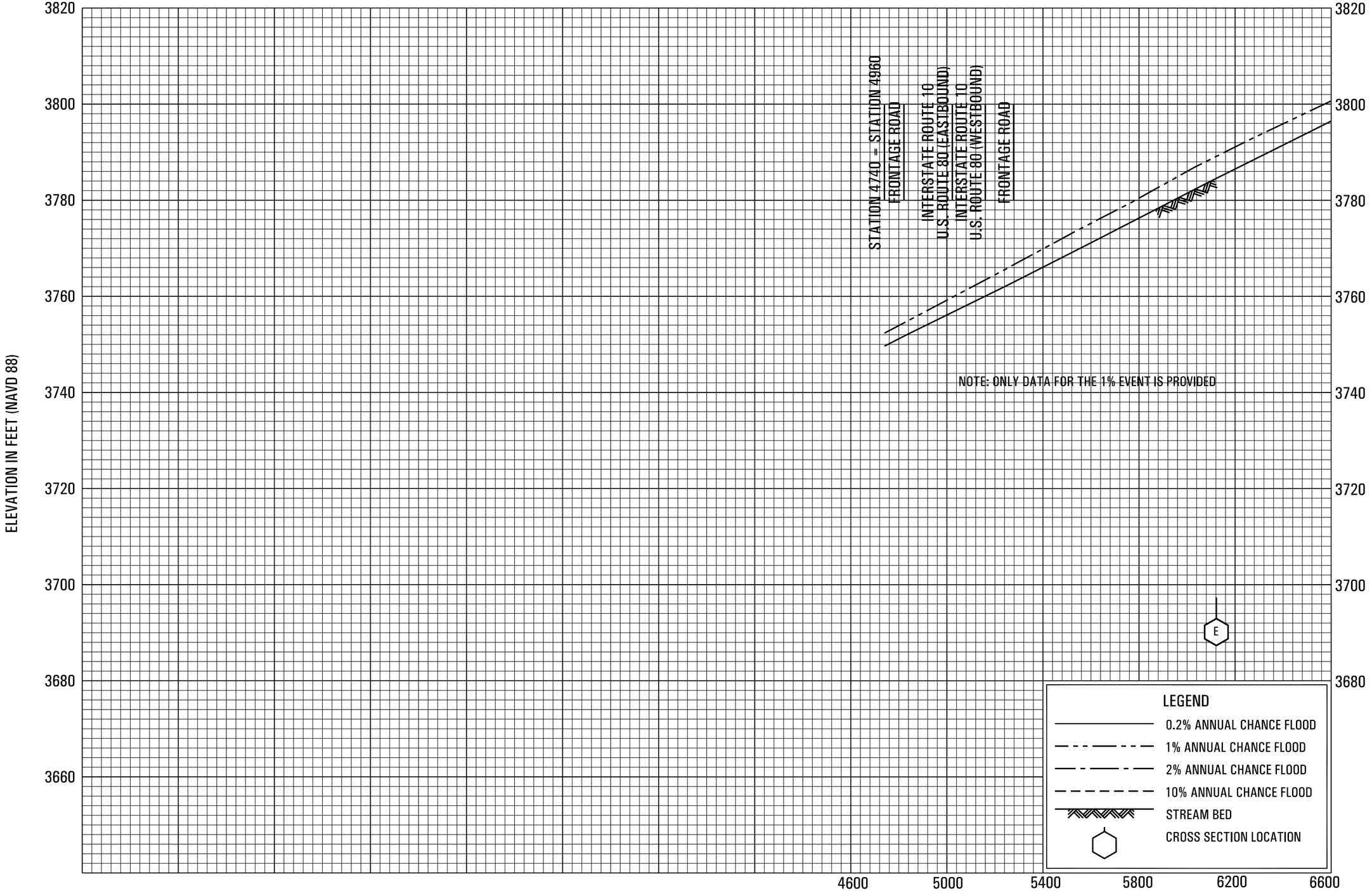
FLOOD PROFILES

HORIZON ARROYO (STREAM 2)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

196P



FLOOD PROFILES

HORIZON ARROYO (STREAM 2)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

197P

FLOOD PROFILES

HORIZON ARROYO (STREAM 2)

ELEVATION IN FEET (NAVD 88)

3940
3920
3900
3880
3860
3840
3820
3800
3780

ACCESS ROAD

ACCESS ROAD

NOTE: ONLY DATA FOR THE 1% EVENT IS PROVIDED

F
G
H
I
J

LEGEND

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

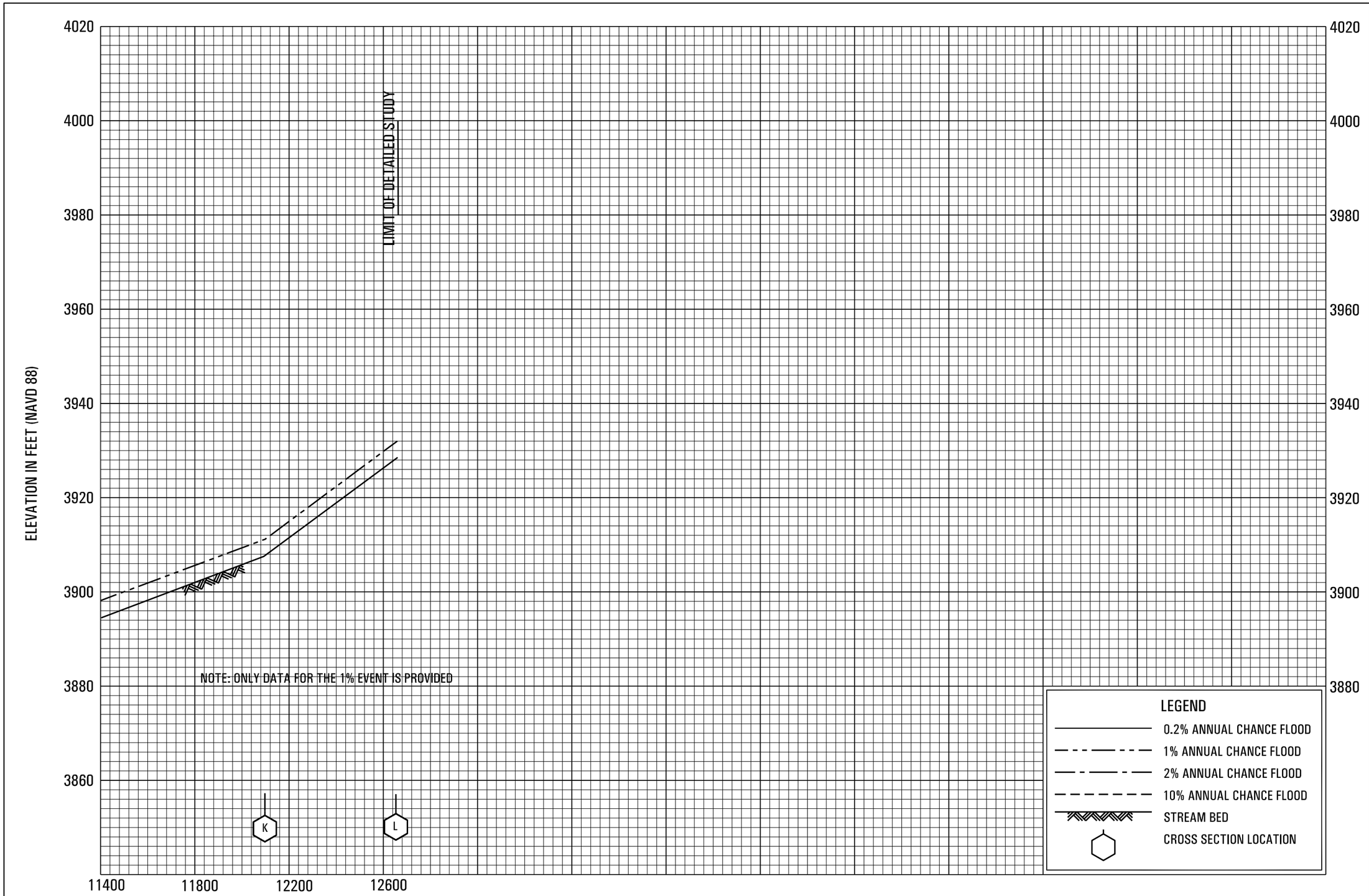
6600 7000 7400 7800 8200 8600 9000 9400 9800 10200 10600 11000 11400

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH MESA SPUR DRAIN

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

198P



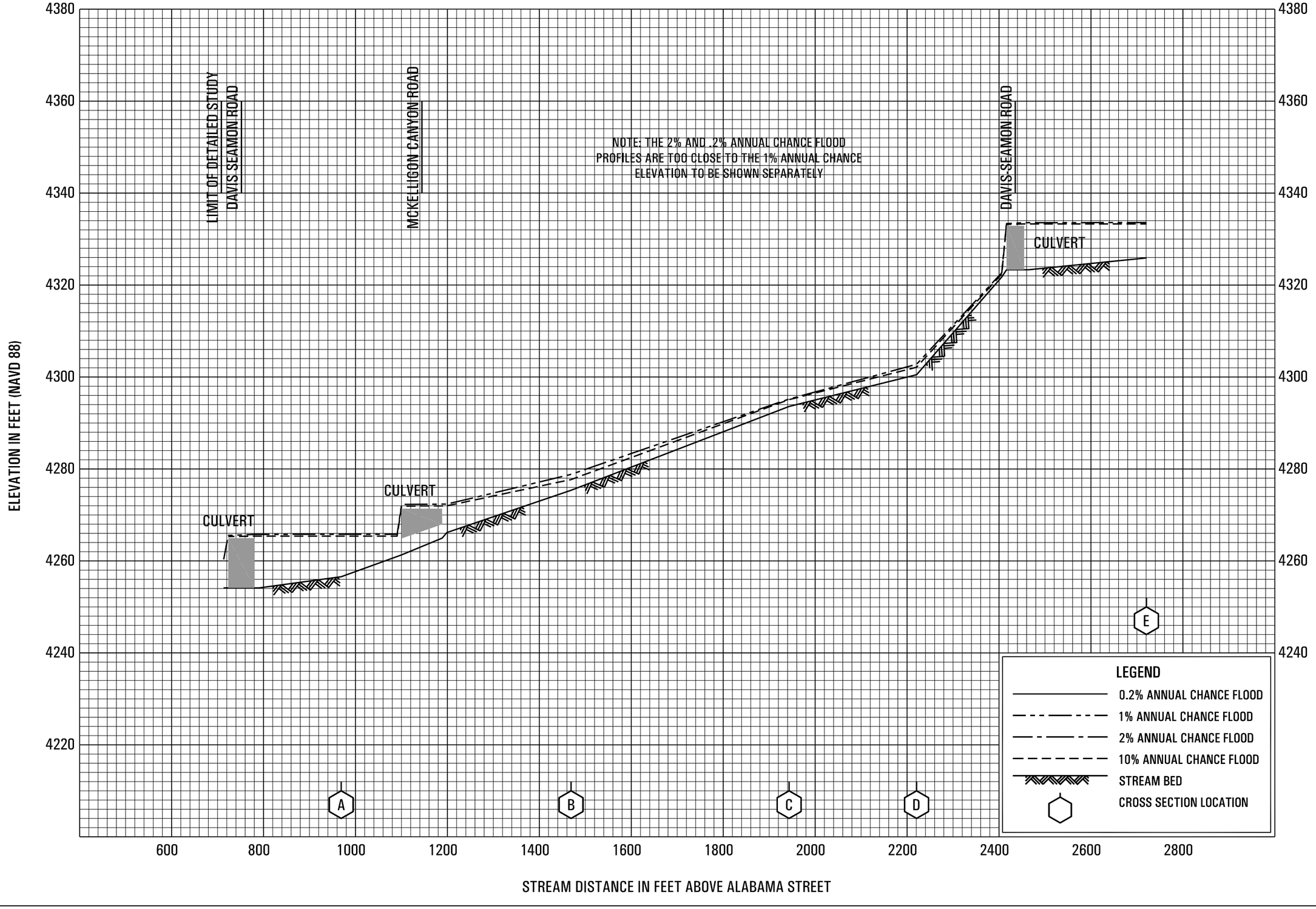
FLOOD PROFILES

HORIZON ARROYO (STREAM 2)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

199P

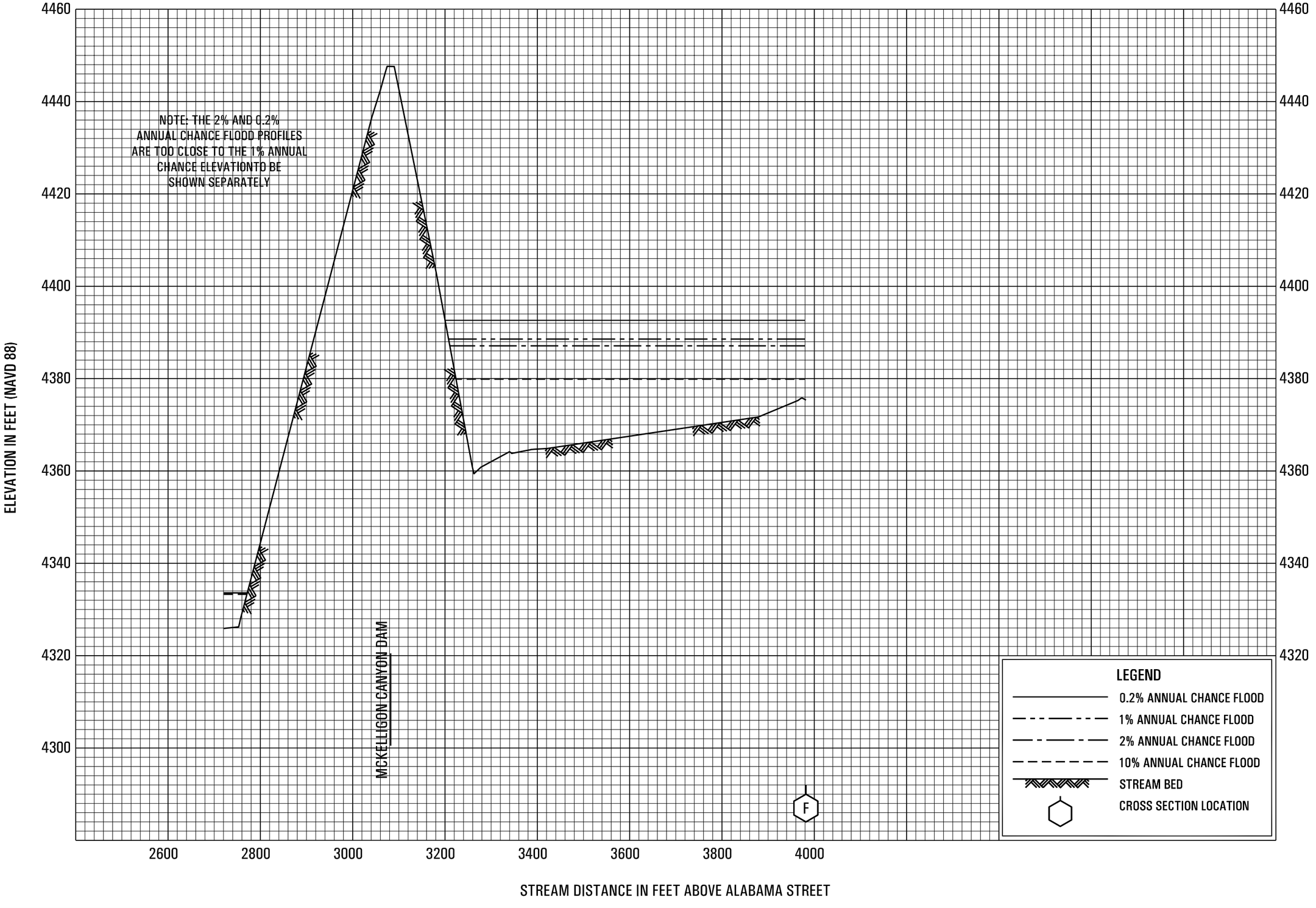


FLOOD PROFILES

McKELLIGON CANYON ARROYO (FLOW PATH NO. 17)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



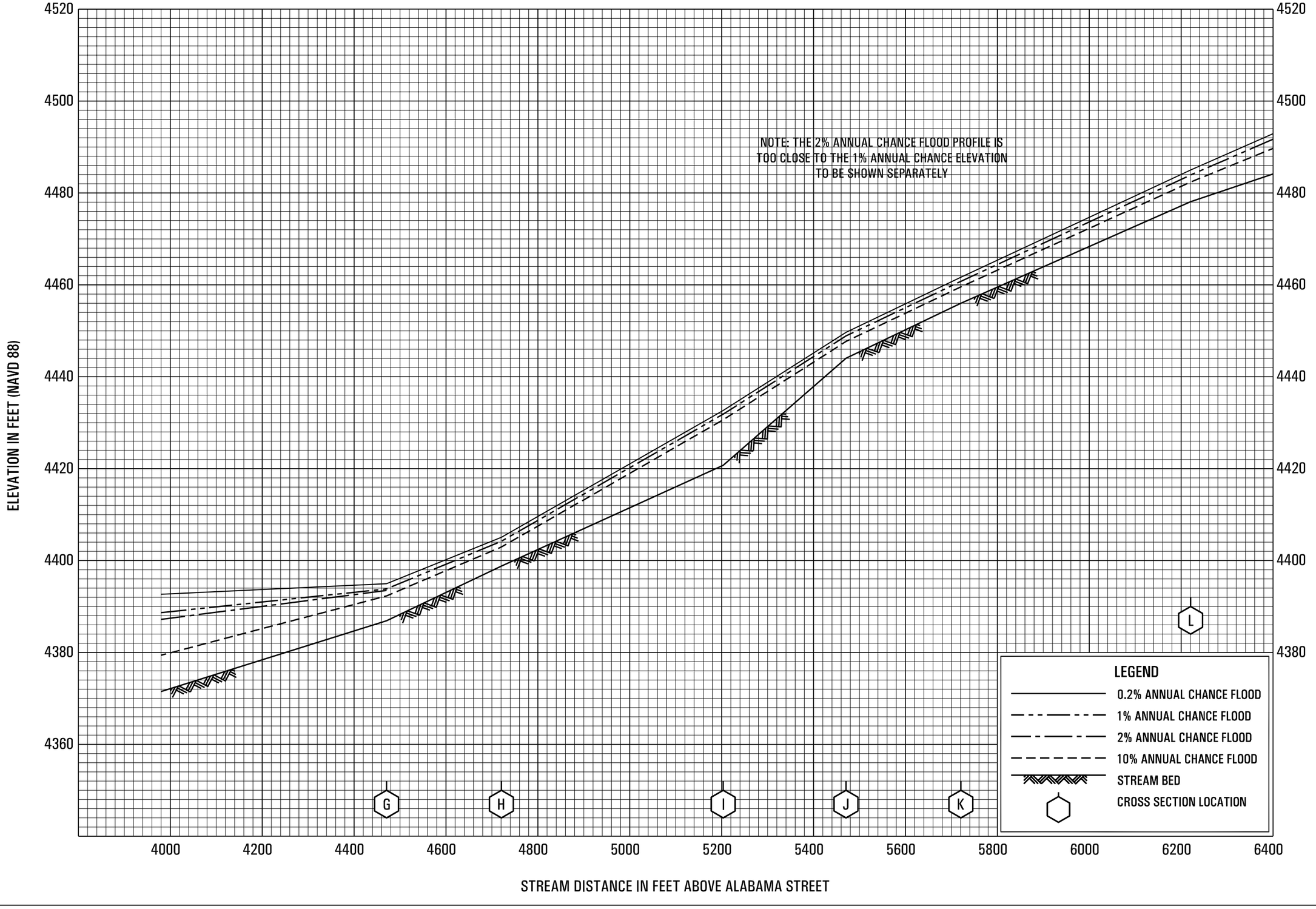
FLOOD PROFILES

McKELLIGON CANYON ARROYO (FLOW PATH NO. 17)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

201P

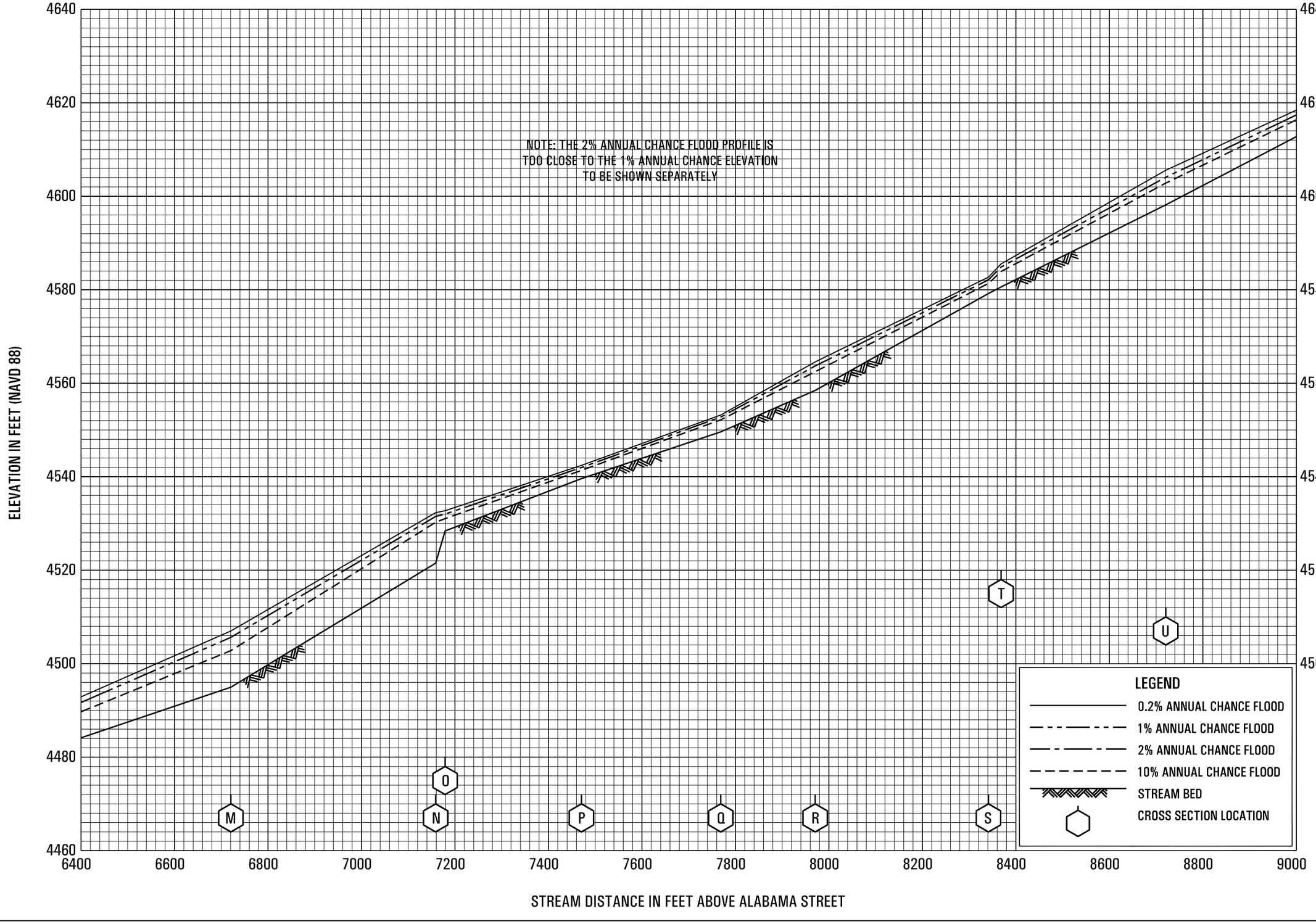


FLOOD PROFILES

McKELLIGON CANYON ARROYO (FLOW PATH NO. 17)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



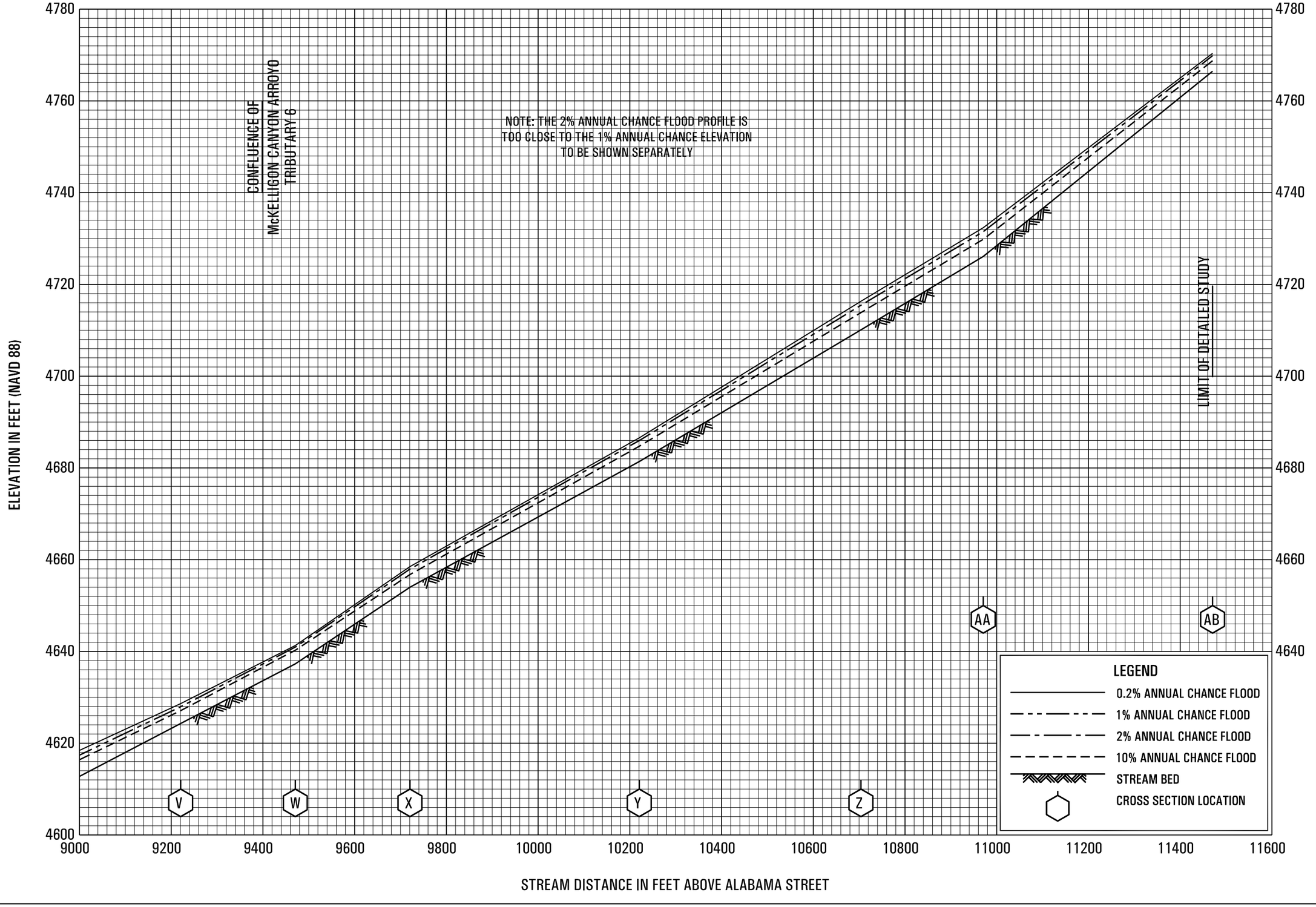
FLOOD PROFILES

McKELLIGON CANYON ARROYO (FLOW PATH NO. 17)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

203P



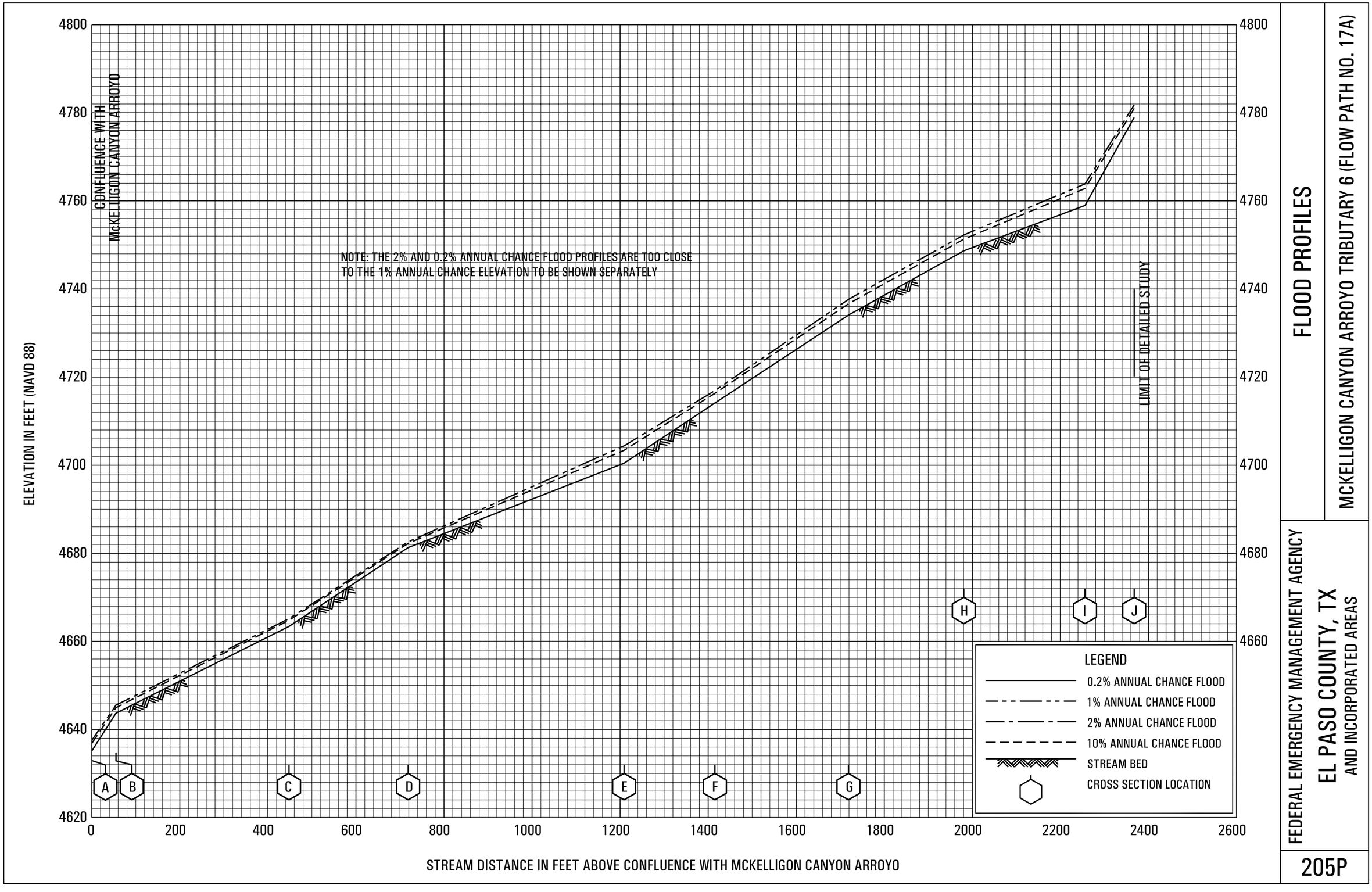
FLOOD PROFILES

McKELLIGON CANYON ARROYO (FLOW PATH NO. 17)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

204P



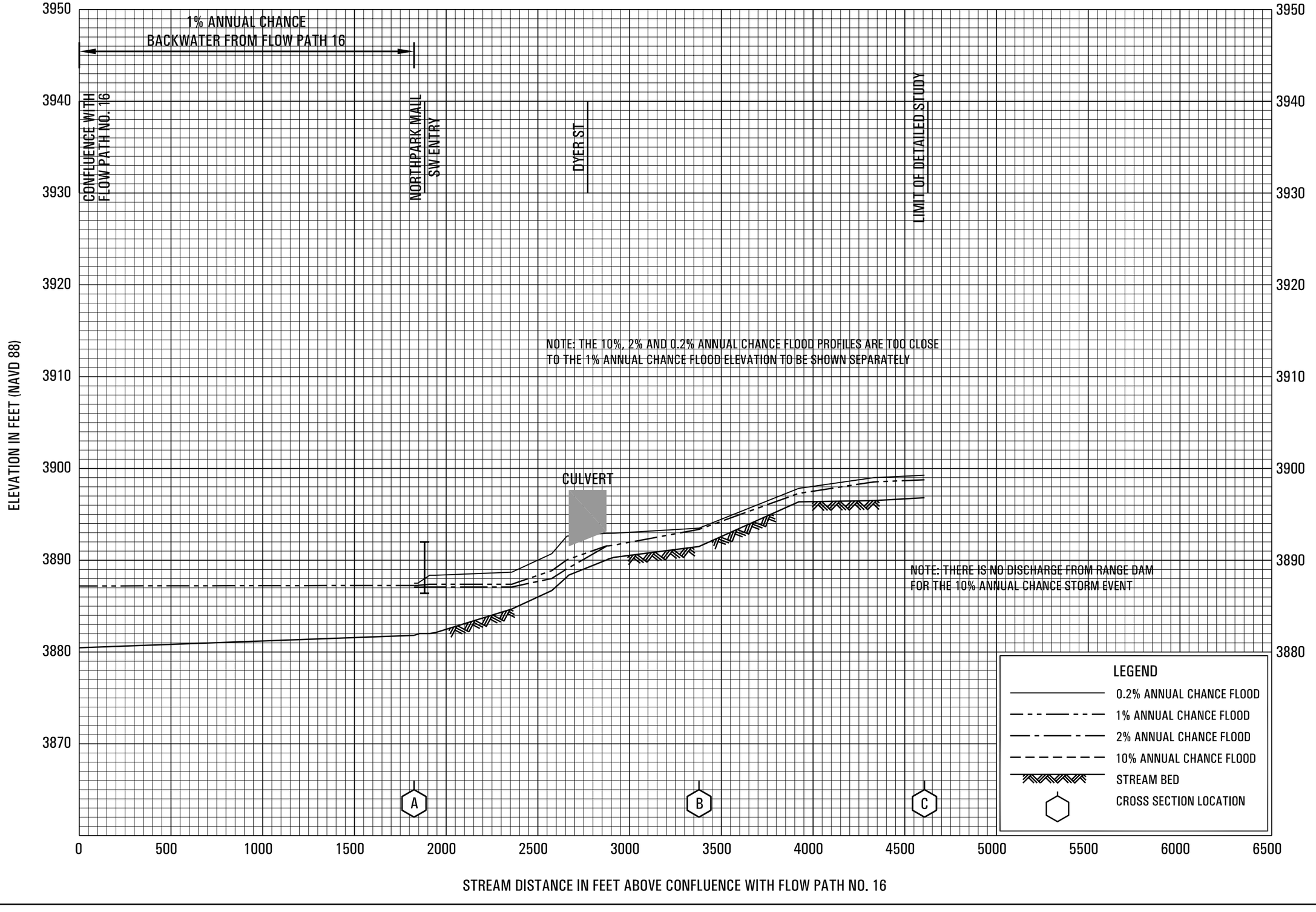
FLOOD PROFILES

MCKELLIGON CANYON ARROYO TRIBUTARY 6 (FLOW PATH NO. 17A)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

205P



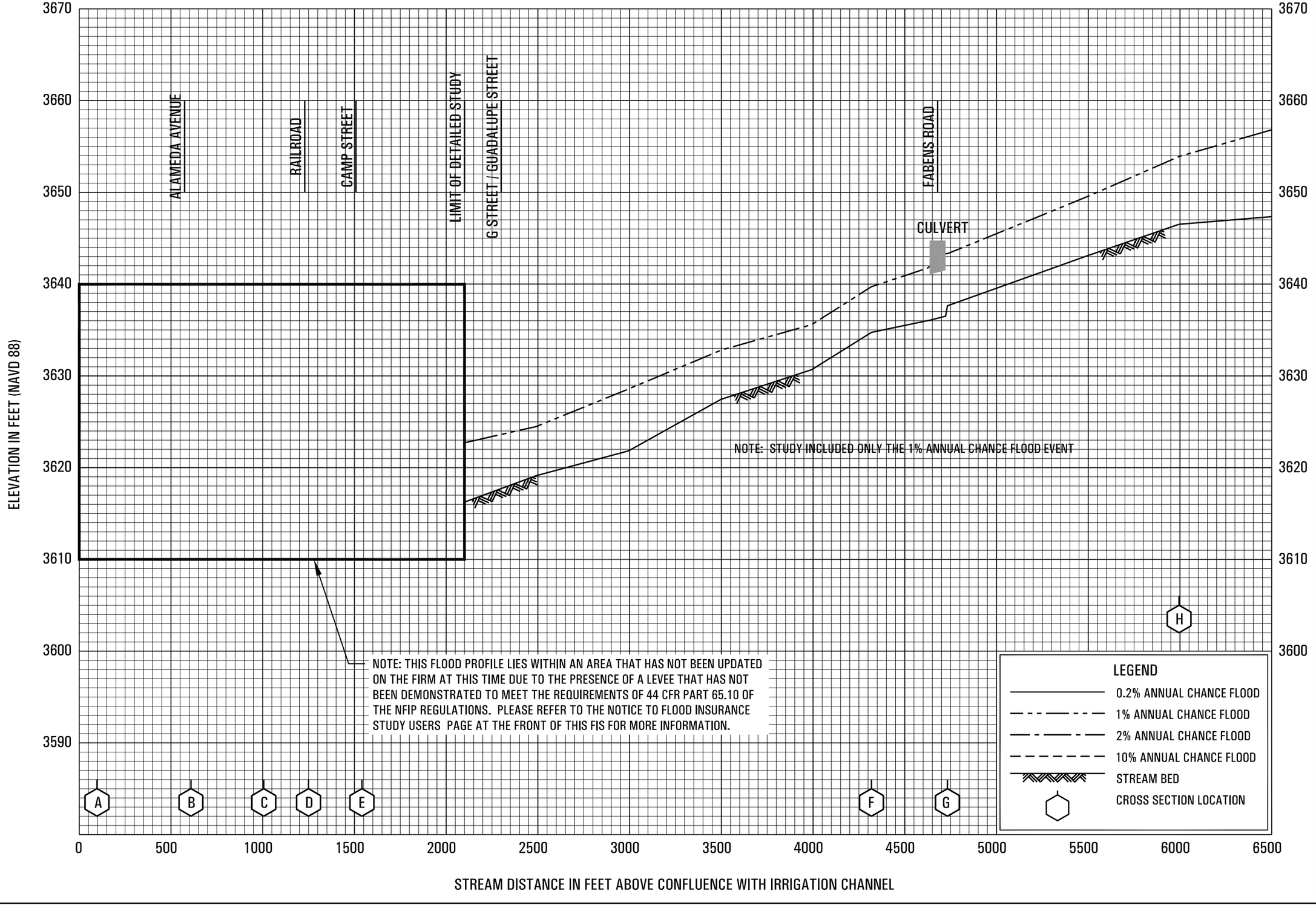
FLOOD PROFILES

RANGE DAM OUTLET CHANNEL

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

206P



FLOOD PROFILES

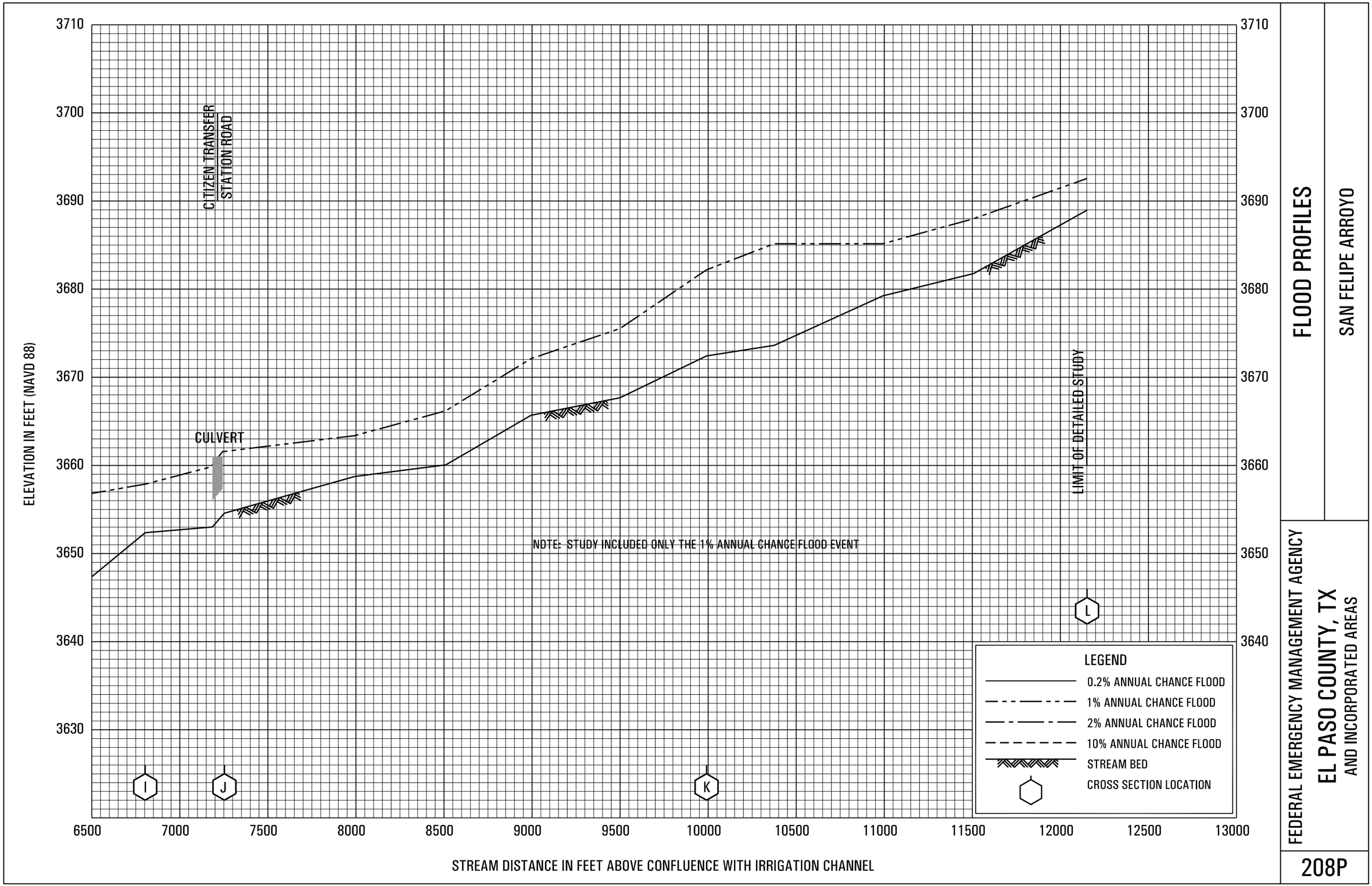
SAN FELIPE ARROYO

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX

AND INCORPORATED AREAS

207P



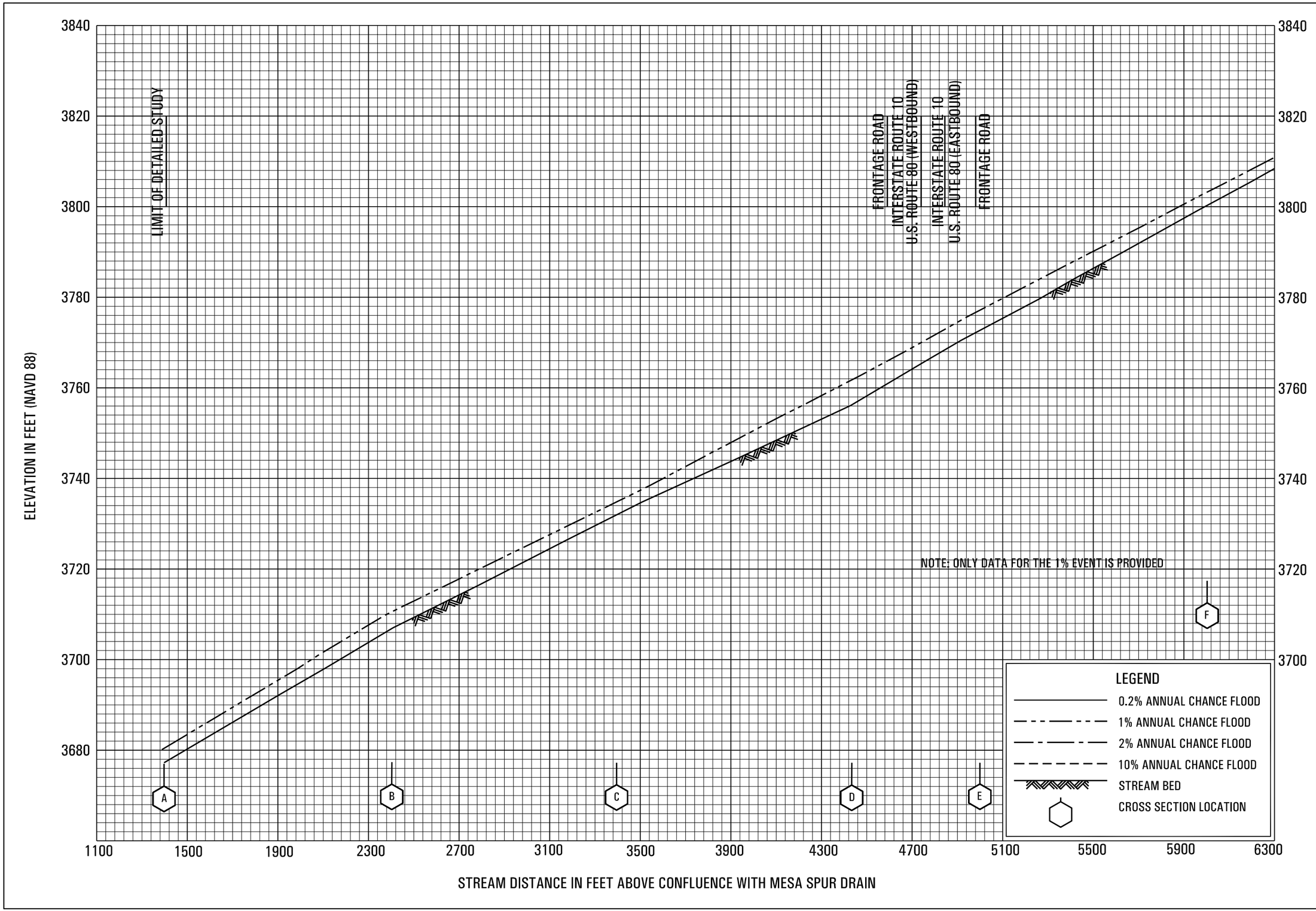
FLOOD PROFILES

SAN FELIPE ARROYO

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

208P



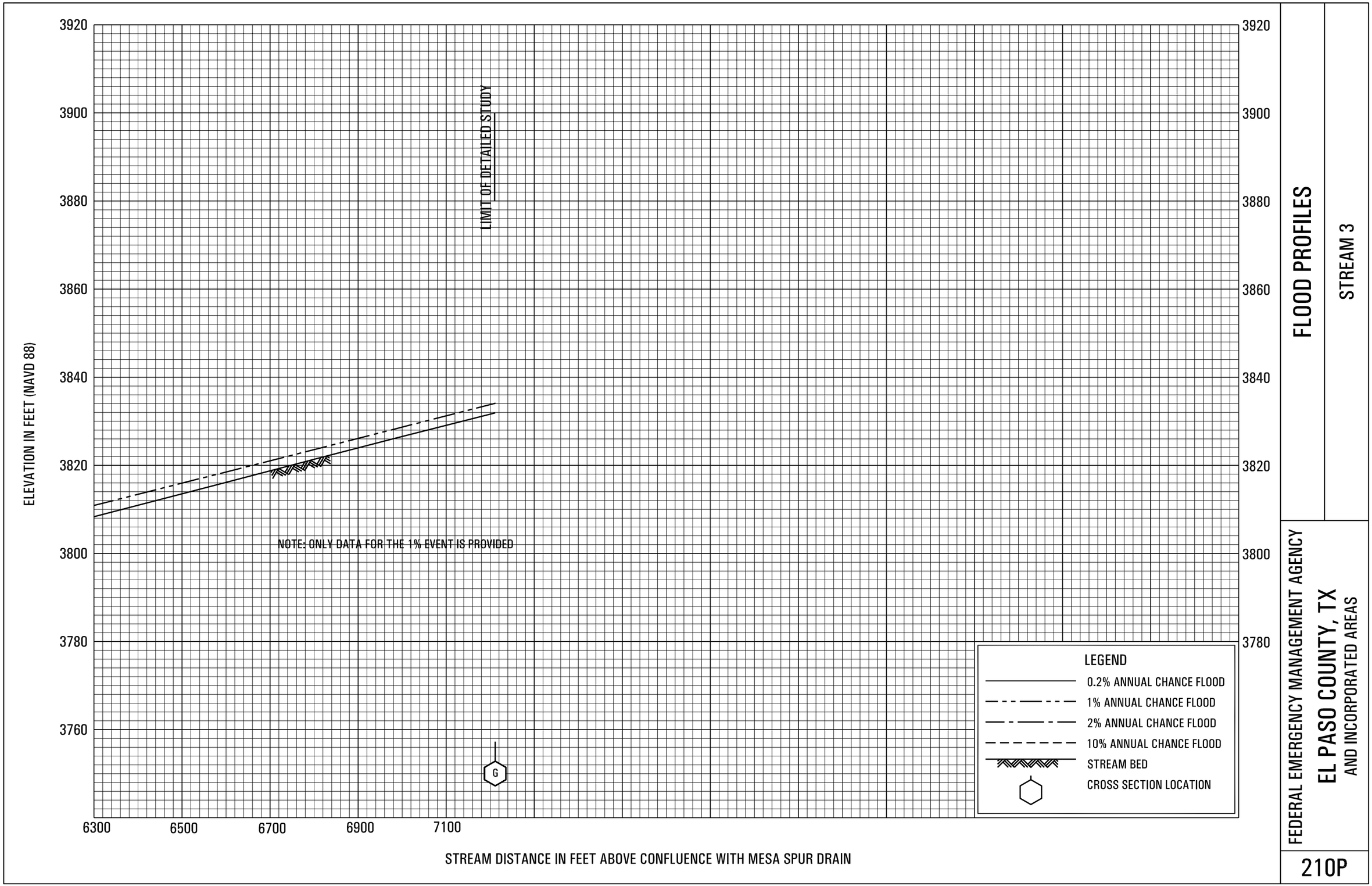
FLOOD PROFILES

STREAM 3

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

209P



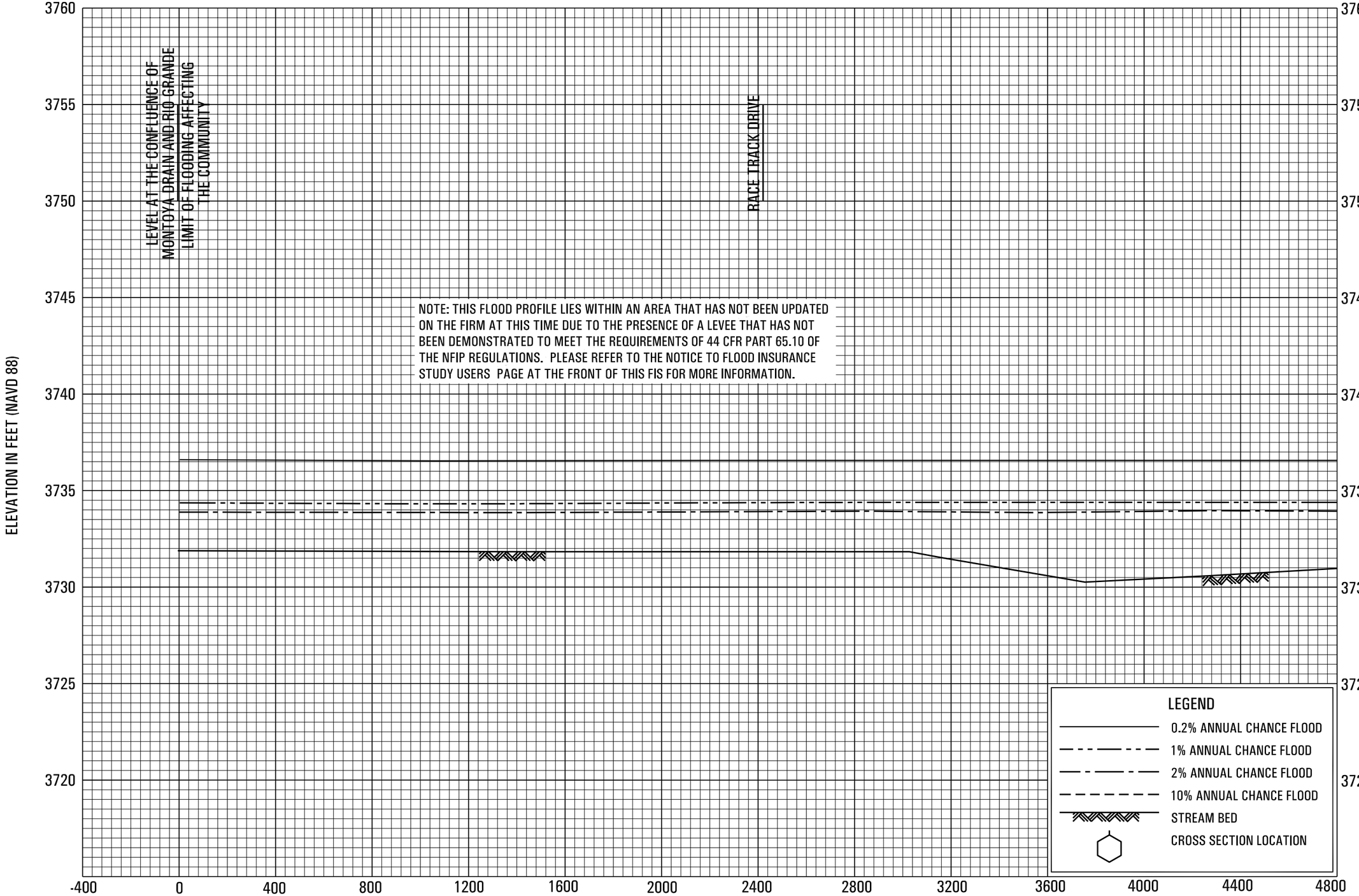
FLOOD PROFILES

STREAM 3

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

210P

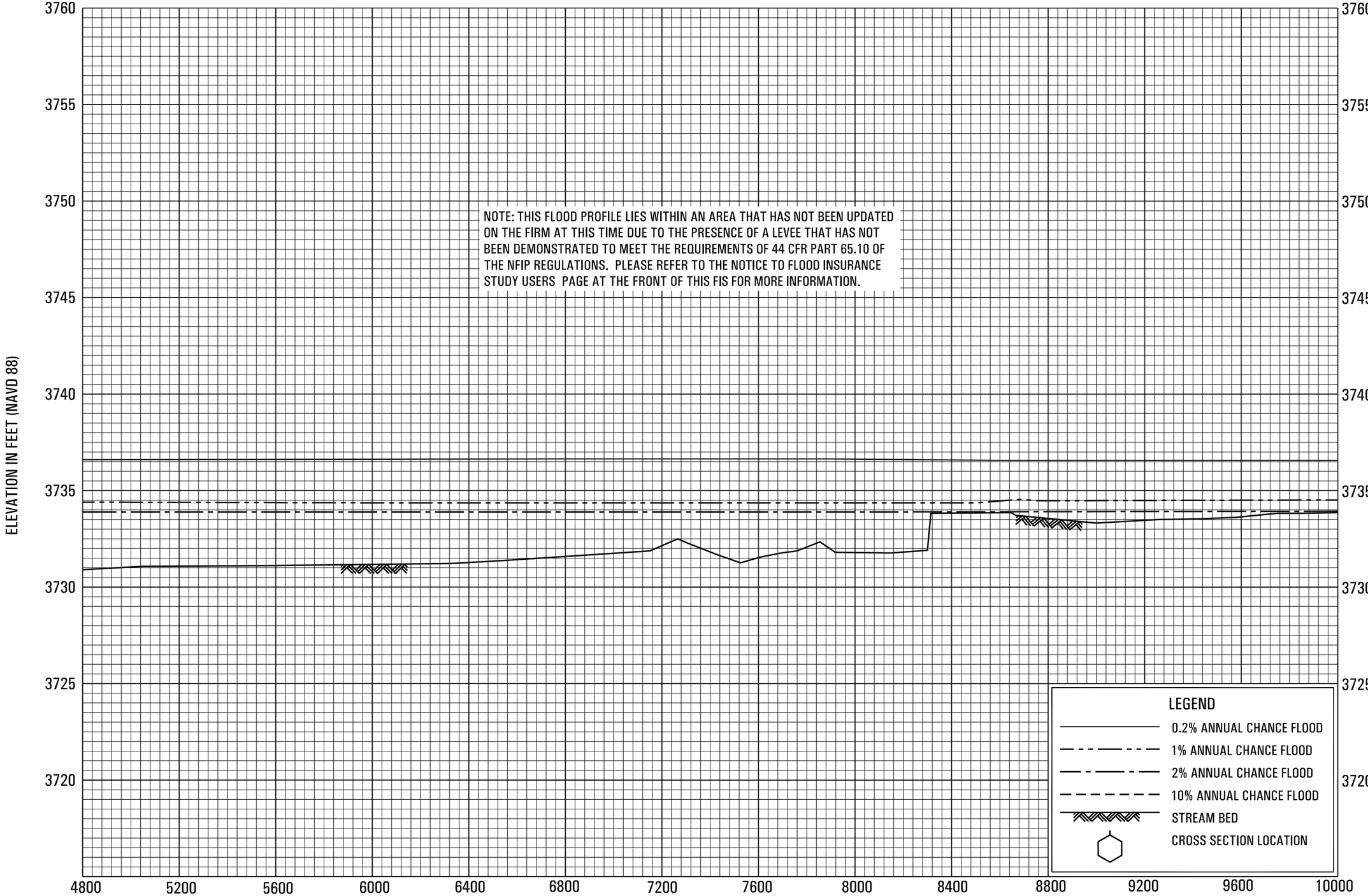


FLOOD PROFILES

LOWER VALLEY AREA

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



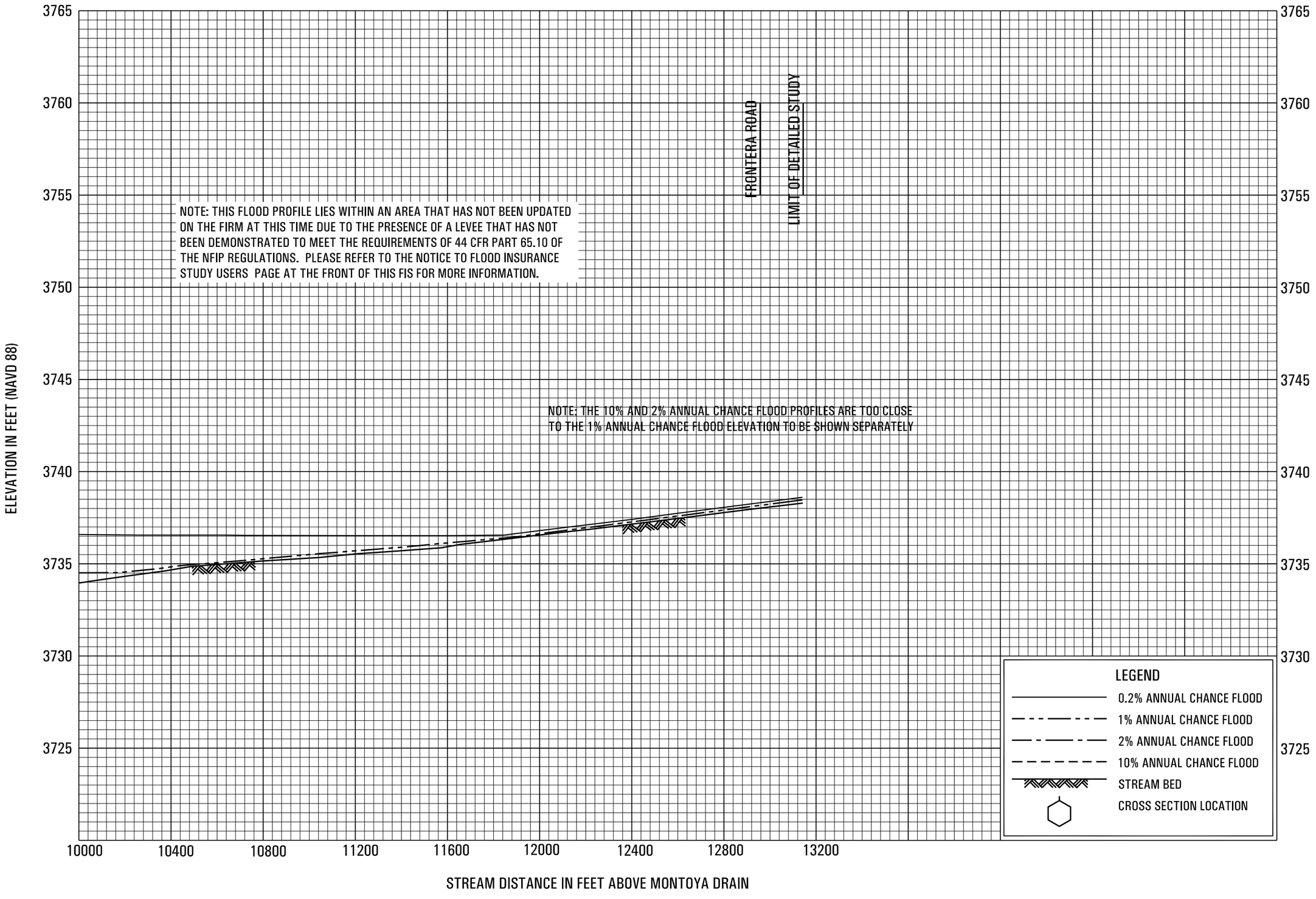
FLOOD PROFILES

LOWER VALLEY AREA

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

212P



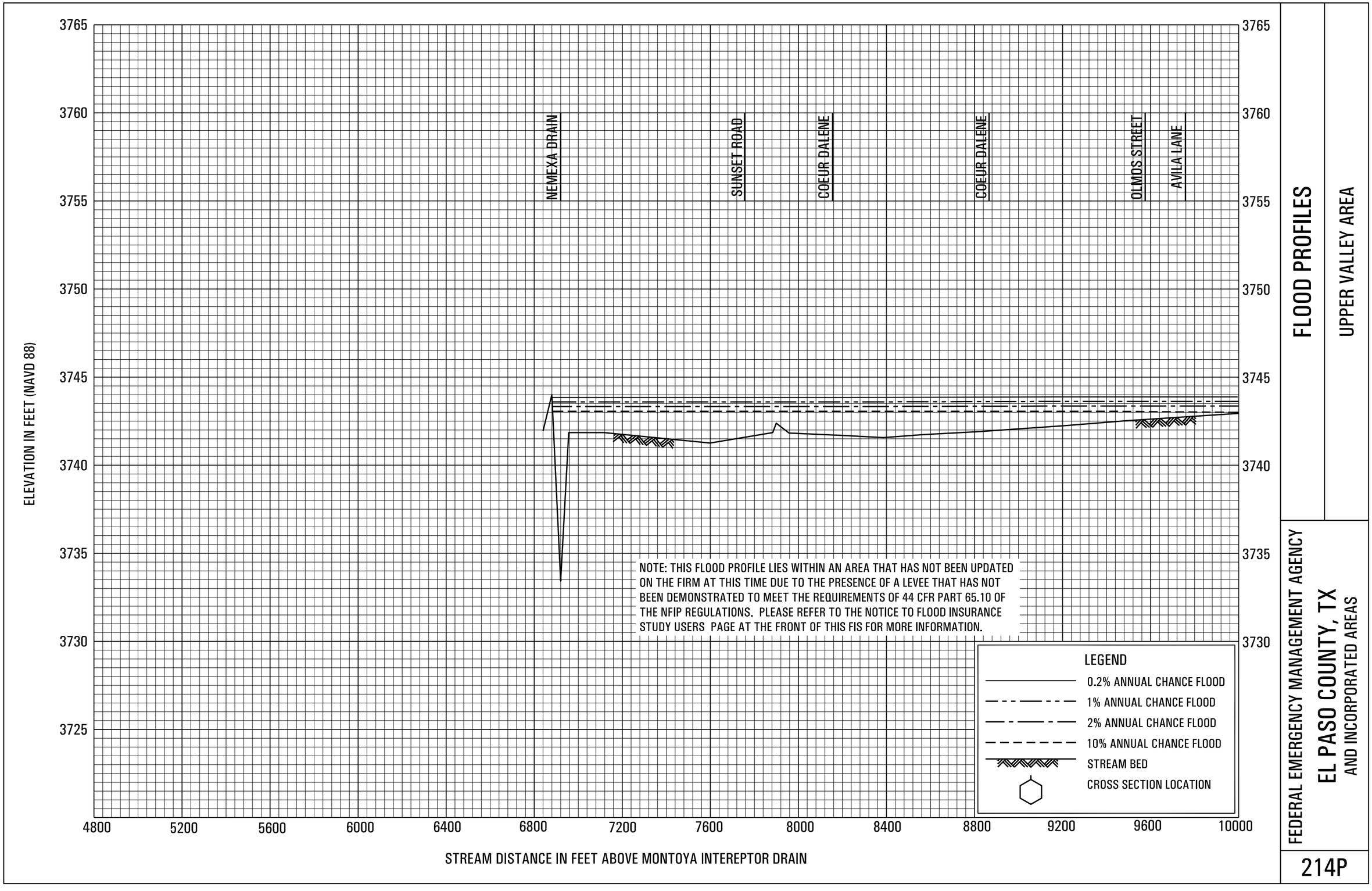
FLOOD PROFILES

LOWER VALLEY AREA

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

213P



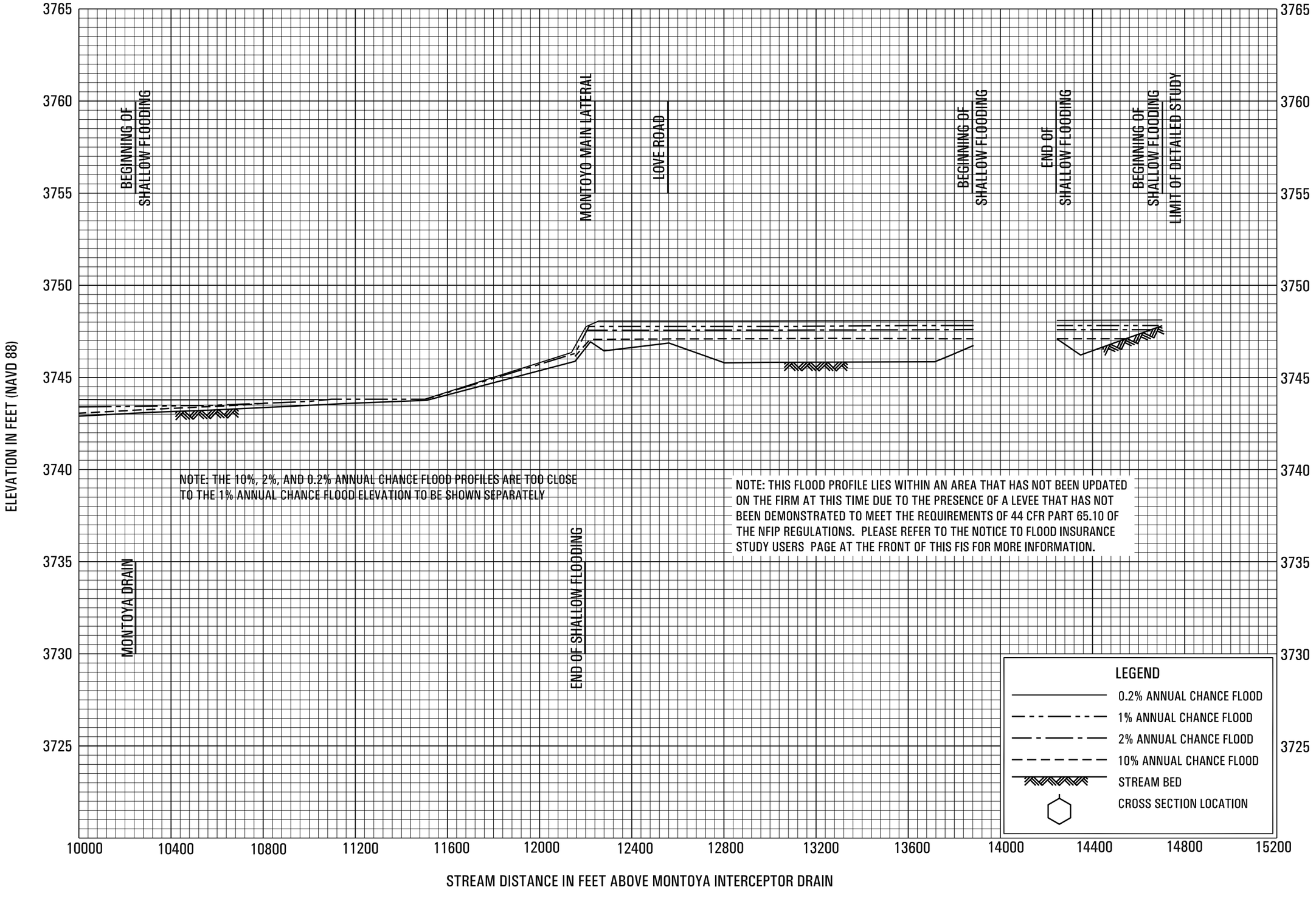
FLOOD PROFILES

UPPER VALLEY AREA

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

214P



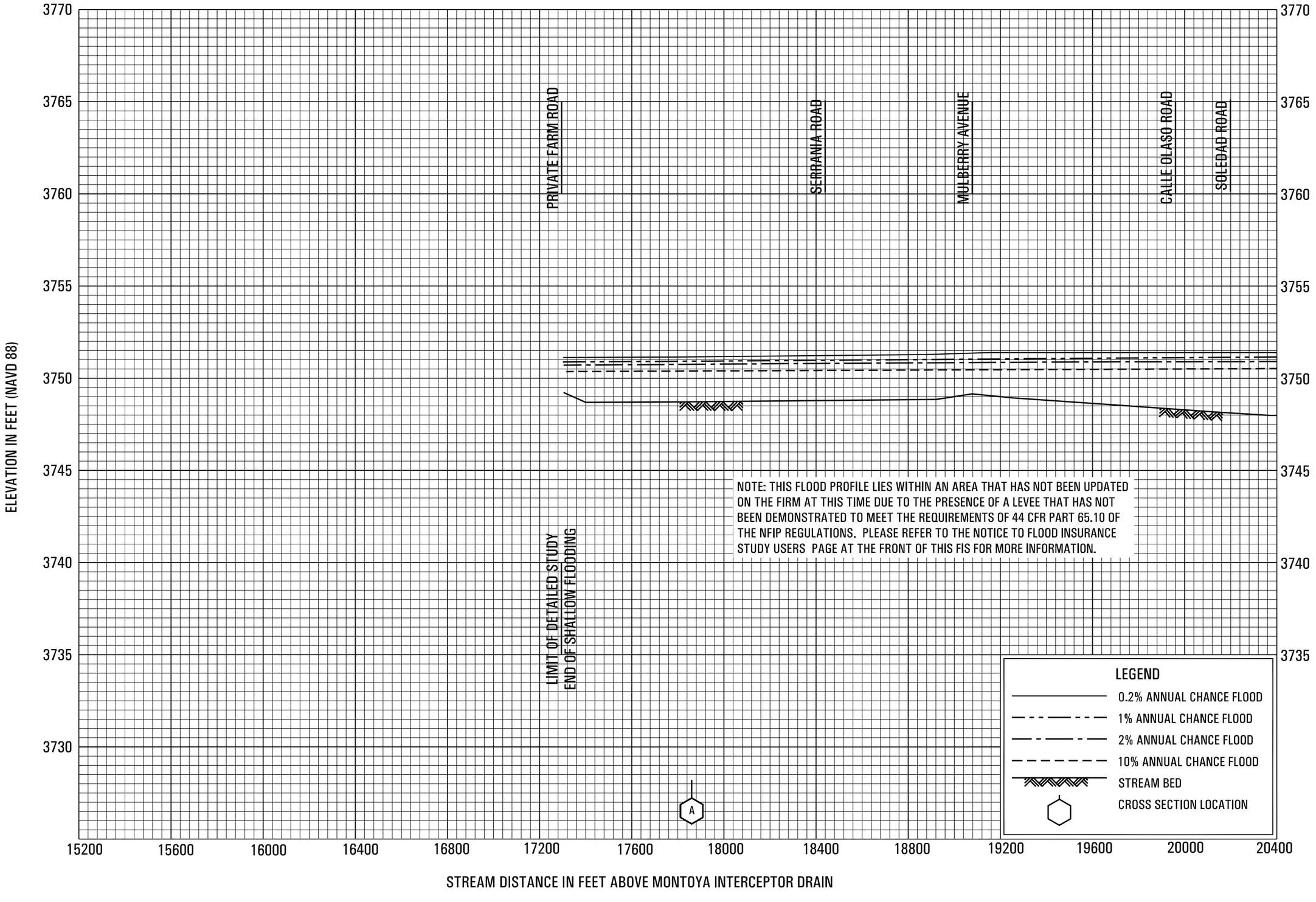
FLOOD PROFILES

UPPER VALLEY AREA

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

215P



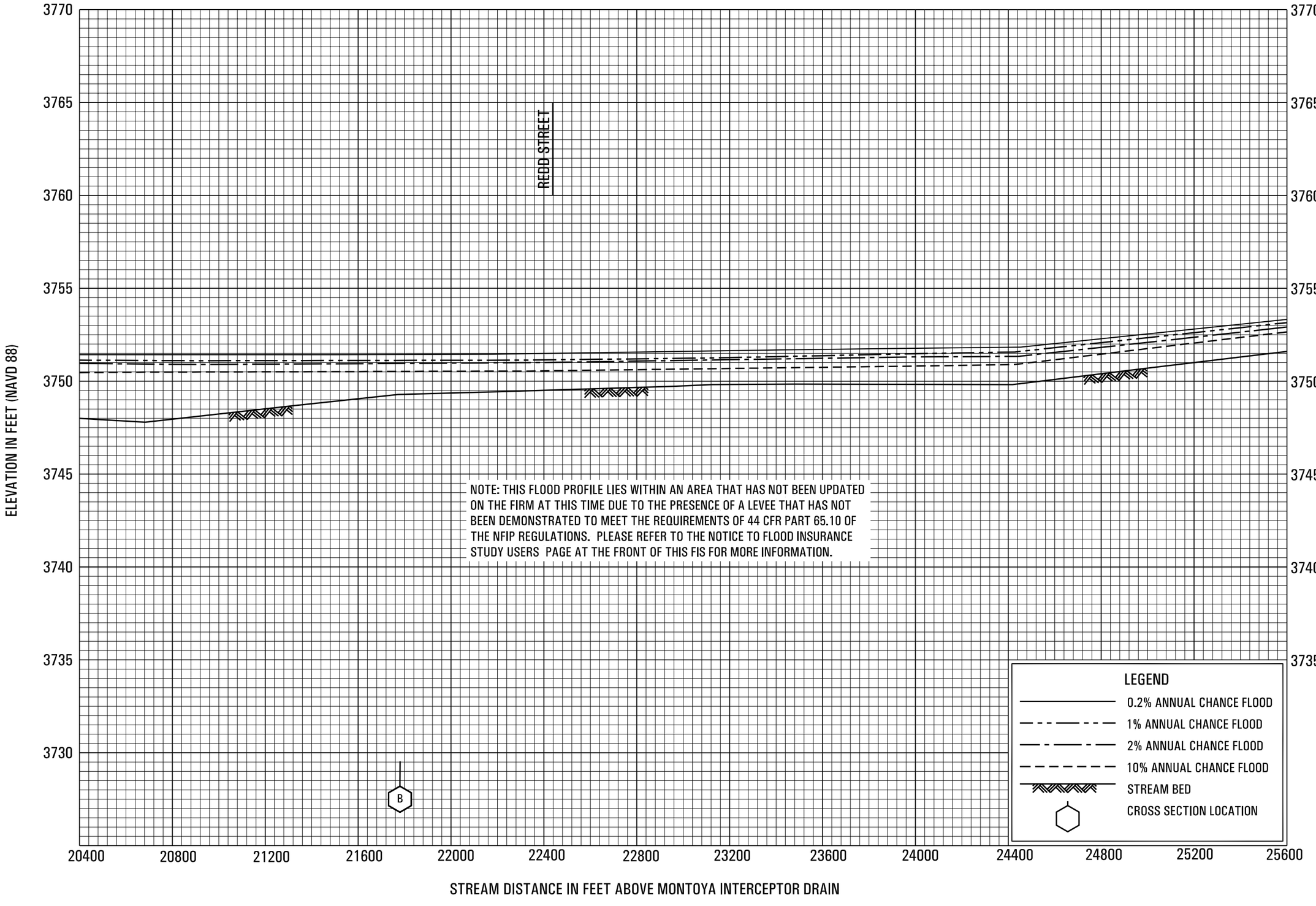
FLOOD PROFILES

UPPER VALLEY AREA

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

216P



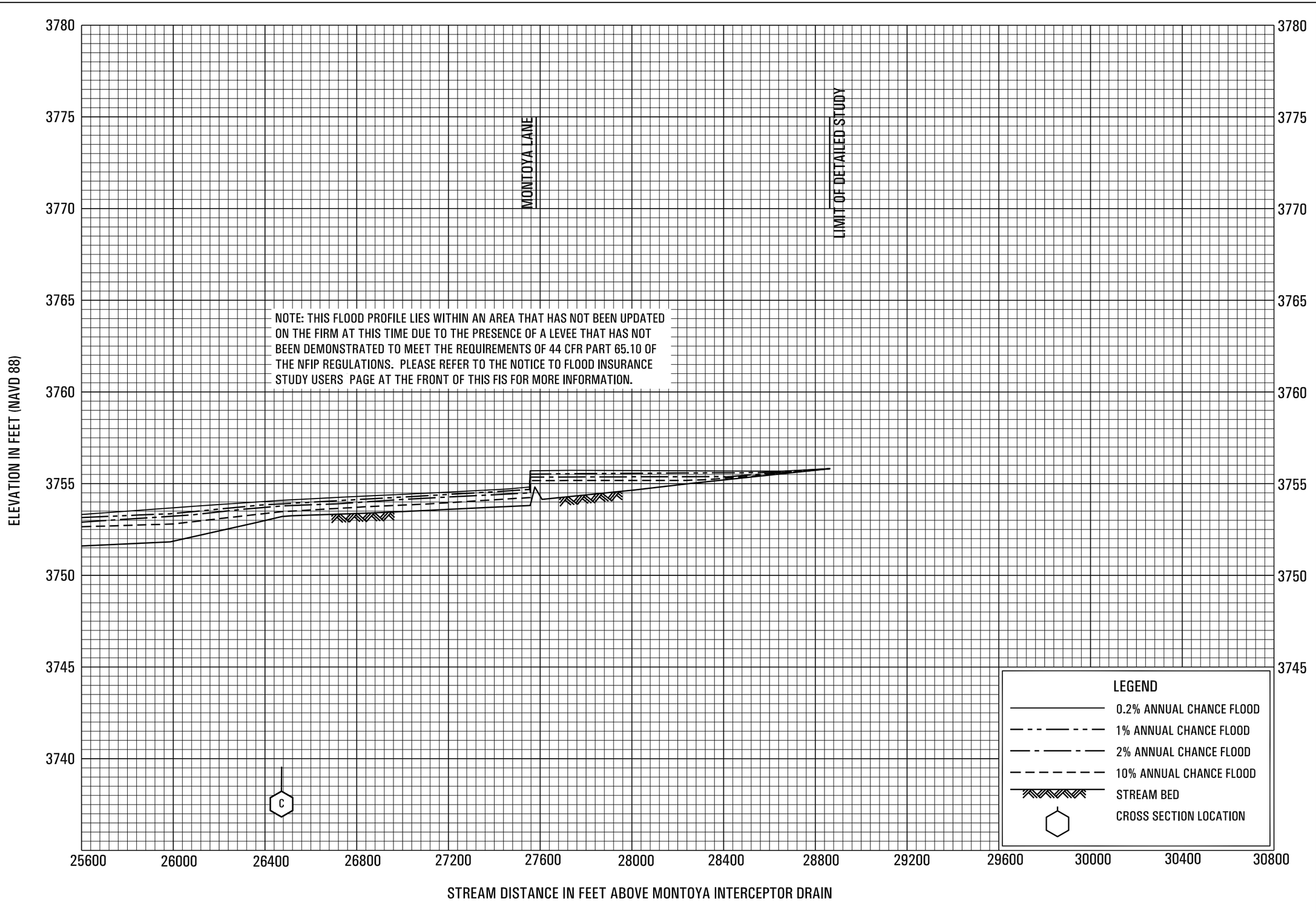
FLOOD PROFILES

UPPER VALLEY AREA

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

217P



FLOOD PROFILES

UPPER VALLEY AREA

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

218P