

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 2 OF 8



EL PASO COUNTY, TEXAS

AND INCORPORATED AREAS

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 OF TEXAS	480663



FEMA

PRELIMINARY
July 8, 2020

EFFECTIVE:

FLOOD INSURANCE STUDY NUMBER

48141CV002A

Version Number 2.3.3.4

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Published Separately

Flood Insurance Rate Map (FIRM)

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 28 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 28: Summary of Contracted Studies Included in this FIS Report

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Arroyo 2 (Ojo de Aqua)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 3 (Channel 9C Bandolero Channel)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 3A (Channel 10 Ganero Channel)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 3B (Channel 1B Belvidere Channel)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 3B Tributary 1	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 4	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 4	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 8	TBD	USACE	EMW-E-0105	December 1981	El Paso, City of
Arroyo 8 (Channel 15 Mesa Hills Channel)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 8A (Channel 11 Thunderbird Valley)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 8A.1	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 8A.1.1	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Arroyo 8B (Channel 14 Buena Vista Channel)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 8B (Channel 21 Coronado Channel)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Arroyo 8C (Channel 13 Spring Crest Channel)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Arroyo 8D	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Channel 29	TBD	COMPASS & USACE	HSFE60-15-D-0003	December 2017	Anthony, Town of; El Paso, City of
Channel 30	TBD	COMPASS & USACE	HSFE60-15-D-0003	December 2017	Anthony, Town of; El Paso County, Unincorporated Areas
Channel 30	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; El Paso County, Unincorporated Areas
Channel 30 Tributary 2	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; El Paso County, Unincorporated Areas
EPWU Arroyo 3	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Flow Path No. 11	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 11A	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Franklin Mountains
Flow Path No. 11C	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 12	TBD	Cardenas-Saledo and Associates		April 1997	El Paso, City of
Flow Path No. 12A	TBD	Cardenas-Saledo and Associates		April 1997	El Paso, City of
Flow Path No. 13A	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Flow Path No. 13B	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Franklin Mountains
Flow Path No. 17 (McKelligon Canyon Arroyo)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 17A (McKelligon Canyon Arroyo Tributary 6)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Franklin Mountains
Flow Path No. 20	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 20A (Channel 2 Paragon Channel)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 20A Tributary 1	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 20A Tributary 2	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 21	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 21 Tributary 2	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 21A (Channel 3 Canterbury Channel)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 23 (Billy Rogers Arroyo)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 24 (Government Hills Channel)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Fort Bliss Military Reservation
Flow Path No. 26 (Phelps Dodge)	TBD	USACE	EMW-98-IA-0176	October 2002	El Paso, City of
Flow Path No. 27 (Playa Drain)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 28 (Mesa Drain and Interceptor)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 28A Mesa Drain Below Interceptor	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Flow Path No. 29	TBD	USACE	EMW-98-IA-0176	October 2002	El Paso, City of
Flow Path No. 30	TBD	USACE	EMW-98-IA-0176	October 2002	El Paso, City of
Flow Path No. 32	TBD	USACE	EMW-98-IA-0176	October 2002	El Paso, City of
Flow Path No. 33 (Middle Drain)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 36 (Mercantile Channel)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 37 (Franklin Drain)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 39	TBD	COMPASS & USACE	HSFE60-15-D-0003	December 2017	El Paso, City of
Flow Path No. 39N	TBD	COMPASS & USACE	HSFE60-15-D-0003	December 2017	El Paso, City of
Flow Path No. 40	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 41	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 41A	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 42	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 42	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Flow Path No. 43	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Flow Path No. 44 (Avispa Canyon)	TBD	COMPASS & USACE	HSFE60-15-D-0003	December 2017	El Paso, City of; El Paso County, Unincorporated Areas
Flow Path No. 44 Tributary 1	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 45	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; El Paso County, Unincorporated Areas; Franklin Mountains; Vinton, Village of

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Flow Path No. 45A	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; El Paso County, Unincorporated Areas; Vinton, Village of
Flow Path No. 45B	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 45C	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 45C Tributary 5	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Franklin Mountains
Flow Path No. 45D	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 46	TBD	COMPASS & USACE	HSFE60-15-D-0003	December 2017	El Paso County, Unincorporated Areas; Vinton, Village of
Flow Path No. 46 Tributary 2	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; El Paso County, Unincorporated Areas
Flow Path No. 47 (Vinton Canyon)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; El Paso County, Unincorporated Areas; Franklin Mountains
Flow Path No. 47 Tributary 1.2	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Franklin Mountains
Flow Path No. 47 Tributary 2	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Franklin Mountains
Flow Path No. 48	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; El Paso County, Unincorporated Areas; Franklin Mountains
Flow Path No. 48 Tributary 1	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Franklin Mountains
Flow Path No. 49	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 49B	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 49C	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Franklin Mountains
Flow Path No. 54	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Flow Path No. 55	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 55A	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Franklin Mountains
Flow Path No. 55A Tributary 2	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Franklin Mountains
Flow Path No. 56	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; Franklin Mountains
Flow Path No. 56A	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Horizon Arroyo (Stream 2)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas; Socorro, City of
Horizon Arroyo Split Path	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Socorro, City of
Horizon Arroyo Tributary	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas; Horizon City, Town of
Horizon Arroyo Tributary 1	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Railroad Channel	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of
Range Dam Outlet Channel	TBD	MAPVI	EMT-2002-CO-0052	October 2007	El Paso, City of
Rio Grande River	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Anthony, Town of; El Paso, City of; El Paso County, Unincorporated Areas; Socorro, City of, San Elizario City of; Vinton Village of; Ysleta Del Sur Pueblo of Texas
San Felipe Arroyo	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 1 (Sparks Arroyo)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas; Socorro, City of

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Stream 3	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas; Socorro, City of
Stream 4 (Channel 25)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas; Horizon City, Town of; Socorro, City of
Stream 4 Tributary 1 (Channel 25A)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 4 Tributary 2 (Channel 25B)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas; Horizon City, Town of
Stream 4 Tributary 2.1	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 4 Tributary 2.2	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 5 (Channel 26)	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso, City of; El Paso County, Unincorporated Areas; Horizon City, Town of; Socorro, City of
Stream 6	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas; Socorro, City of
Stream 7	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Clint, Town of; El Paso County, Unincorporated Areas; Socorro, City of
Stream 7 Tributary 1	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 7 Tributary 2	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 7 Tributary 3	TBD	COMPASS	HSFE60-15-D-0003	June 2019	Socorro, City of

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Stream 8	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 9	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 10	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 11	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 12	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 13	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 13.5	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
Stream 13.5 Tributary 1	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County, Unincorporated Areas
All Other Zone A Streams in El Paso County	TBD	COMPASS	HSFE60-15-D-0003	June 2019	El Paso County and Incorporated Areas

7.2 Community Meetings

The dates of the community meetings held for this Flood Risk Project and previous Flood Risk Projects are shown in Table 29. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

Table 29: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Anthony, Town of	TBD	03/27/2019	Flood Risk Review Meeting	FEMA, the community, the study contractor, TWDB, and USACE
		TBD	CCO Meeting	
Clint, Town of	TBD	03/27/2019	Flood Risk Review Meeting	FEMA, the community, the study contractor, TWDB, and USACE
		TBD	CCO Meeting	
El Paso, City of	TBD	03/26/2019	Flood Risk Review Meeting	FEMA, the community, the study contractor, TWDB, and USACE
		TBD	CCO Meeting	
El Paso County, Unincorporated Areas	TBD	03/26/2019	Flood Risk Review Meeting	FEMA, the community, the study contractor, TWDB, and USACE
		TBD	CCO Meeting	
Horizon City, Town of	TBD	03/27/2019	Flood Risk Review Meeting	FEMA, the community, the study contractor, TWDB, and USACE
		TBD	CCO Meeting	
San Elizario, City of	TBD	03/27/2019	Flood Risk Review Meeting	FEMA, the community, the study contractor, TWDB, and USACE
		TBD	CCO Meeting	
Socorro, City of	TBD	03/27/2019	Flood Risk Review Meeting	FEMA, the community, the study contractor, TWDB, and USACE
		TBD	CCO Meeting	
Ysleta Del Sur Pueblo of Texas	TBD	03/27/2019	Flood Risk Review Meeting	FEMA, the community, the study contractor, TWDB, and USACE
		TBD	CCO Meeting	

SECTION 8.0 – ADDITIONAL INFORMATION

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see www.fema.gov.

The additional data that was used for this project includes the FIS Report and FIRM that were previously prepared for El Paso County and the City of El Paso, (FEMA 1991).

Table 30 is a list of the locations where FIRMs for El Paso County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

Table 30: Map Repositories

Community	Address	City	State	Zip Code
Anthony, Town of	Town Hall, 401 Wildcat Drive	Anthony	TX	79821
Clint, Town of	Town Hall, 200 North San Elizario Road	Clint	TX	79836
El Paso, City of	City Development Department, 801 Texas Avenue	El Paso	TX	79901
El Paso County, Unincorporated Areas	County Public Works Department, 800 East Overland Avenue, Room 407	El Paso	TX	79901
Horizon City, Town of	Town Hall, 14999 Darrington Road	Horizon City	TX	79928
San Elizario, City of	City Hall, 12710 Church Street	San Elizario	TX	79849
Socorro, City of	Planning and Zoning Department, 860 North Rio Vista Road	Socorro	TX	79927
Vinton, Village of	Village Hall, 436 East Vinton Road	Vinton	TX	79821
Ysleta Del Sur Pueblo of Texas	Department of Public Safety, Emergency Management Division, 199 South Old Pueblo Road	El Paso	TX	79907

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM Databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated as studies become effective and extracts are made available to the public monthly. NFHL data can be viewed or ordered from the website shown in Table 31.

Table 31 contains useful contact information regarding the FIS Report, the FIRM, and

other relevant flood hazard and GIS data. In addition, information about the State NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of State and local GIS data in their state.

Table 31: Additional Information

FEMA and the NFIP	
FEMA and FEMA Engineering Library website	www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/engineering-library
NFIP website	www.fema.gov/national-flood-insurance-program
NFHL Dataset	msc.fema.gov
FEMA Region VI	Federal Regional Center 800 North Loop 288 Denton, TX 76209-3606 (940) 898-5399
Other Federal Agencies	
USGS website	www.usgs.gov
Hydraulic Engineering Center website	www.hec.usace.army.mil
State Agencies and Organizations	
State NFIP Coordinator	Manuel Razos (Interim) Texas Water Development Board 1700 North Congress Avenue PO Box 13231 Austin, TX 78711-3231 (512) 475-1850 Fax: (512) 475-2053 manuel.razo@twdb.texas.gov
State GIS Coordinator	Mike Ouimet State GIS Coordinator 300 West 15 th Street PO Box 13564 Austin, TX 78711-3564 (512) 305-9076 Fax: (512) 475-4759 mike.ouimet@dir.state.tx.us

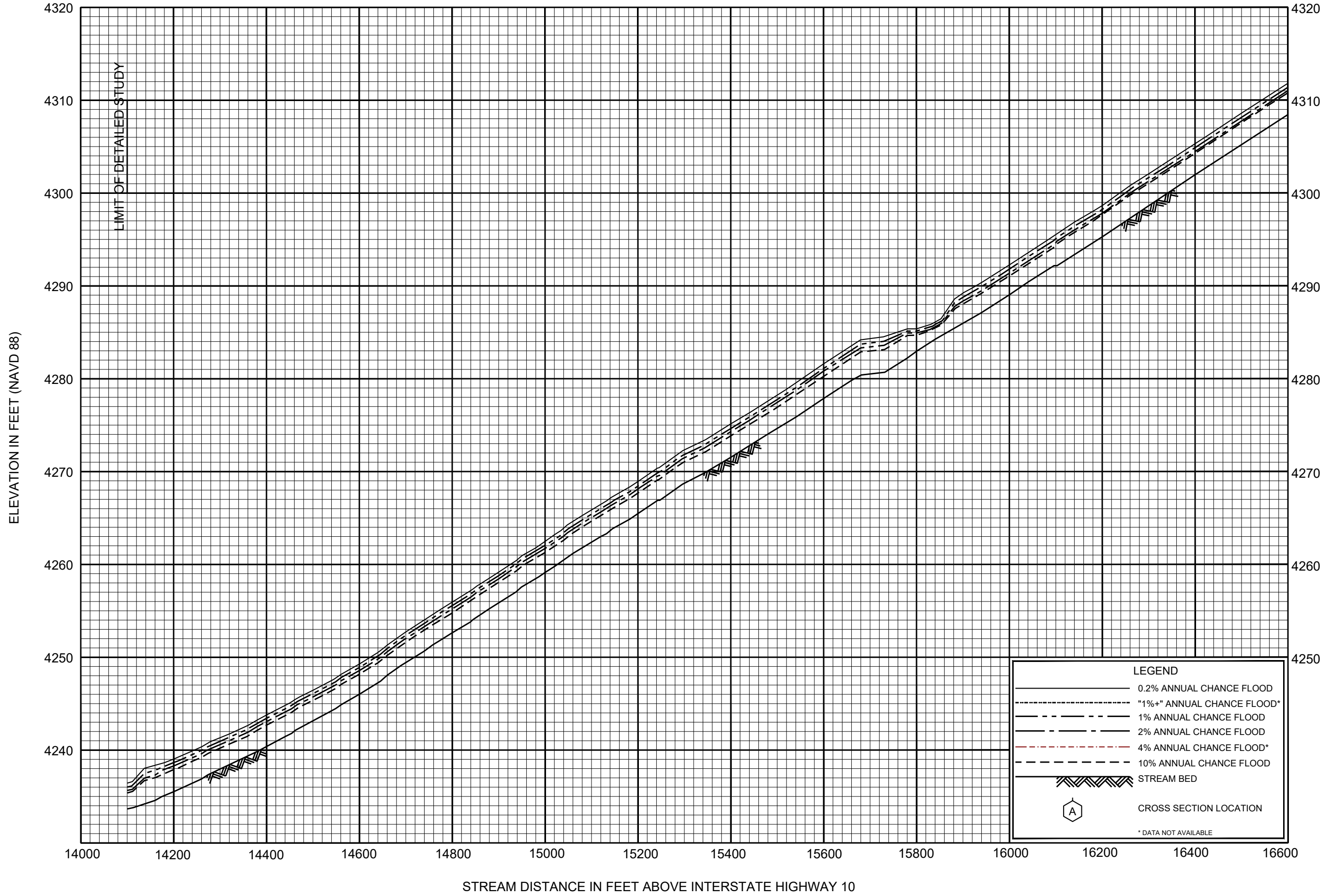
SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 32 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.

Table 32: Bibliography and References

Citation in this FIS	Publisher/ Issuer	Publication Title, "Article," Volume, Number, etc.	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
FEMA 1997	Federal Emergency Management Agency	<i>Flood Insurance Rate Map and Flood Insurance Study, City of El Paso, Texas</i>		Washington, D.C.	January 1997	FEMA Flood Map Service Center: msc.fema.gov
FEMA 1991b	Federal Emergency Management Agency	<i>Flood Insurance Rate Map and Flood Insurance Study, El Paso County Unincorporated Areas, Texas</i>		Washington, D.C.	September 1991	FEMA Flood Map Service Center: msc.fema.gov
FEMA 2006	Federal Emergency Management Agency	<i>National Flood Hazard Layer</i>		Washington, D.C.	February 2006	FEMA Flood Map Service Center: msc.fema.gov
PdN Mapa 2016	Paso del Norte Mapa	<i>Municipal Boundaries</i>		El Paso, TX	June 2016	Paso del Norte Mapa: pdnmapa.org/
PdN Mapa 2018a	Paso del Norte Mapa	<i>El Paso County Roads Centerline</i>		El Paso, TX	April 2018	Paso del Norte Mapa: pdnmapa.org
PdN Mapa 2018b	Paso del Norte Mapa	<i>El Paso County Railroad Tracks</i>		El Paso, TX	April 2018	Paso del Norte Mapa: pdnmapa.org
Vinton 2019	Village of Vinton	<i>Vinton City Limits</i>		Vinton, TX	January 2019	Village of Vinton: vintontx.govoffice2.com
TNRIS 2004	Texas Natural Resources Information System	<i>County Boundary</i>		Austin, TX	January 2004	Texas Natural Resources Information System: tnris.org
El Paso 2014	City of El Paso	<i>City Limits</i>		El Paso, TX	February 2014	City of El Paso: elpasotexas.gov

Citation in this FIS	Publisher/ Issuer	<i>Publication Title, "Article," Volume, Number, etc.</i>	Author/Editor	Place of Publication	Publication Date/ Date of Issuance	Link
USDA 2016a	United States Department of Agriculture	<i>Watershed Boundary Data – Hydrologic Unit</i>		Salt Lake City, UT	July 2016	USDA: www.usda.gov
USDA 2019	United States Department of Agriculture	<i>NAIP Orthophotography</i>		Salt Lake City, UT	November 2018	USDA: www.usda.gov

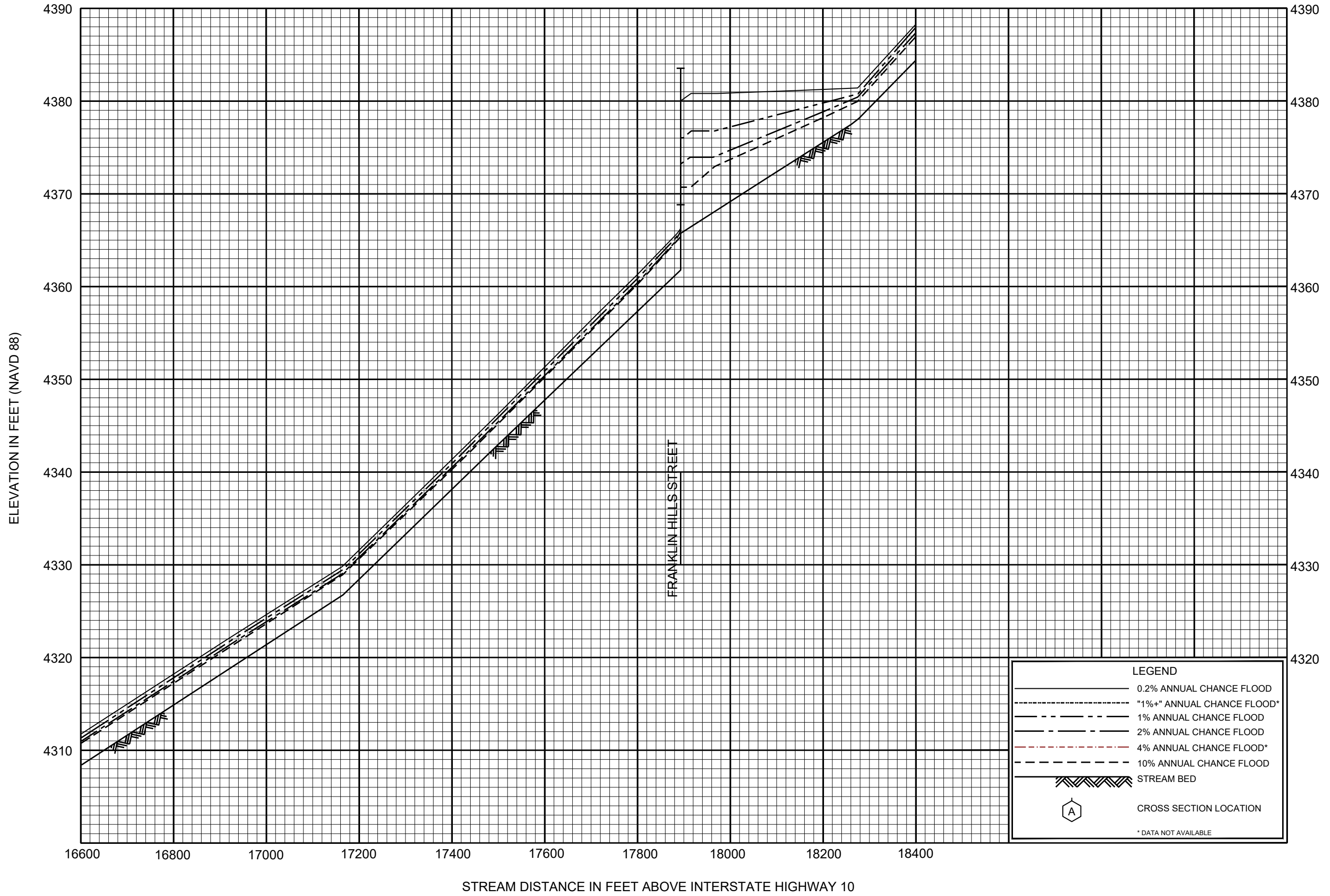


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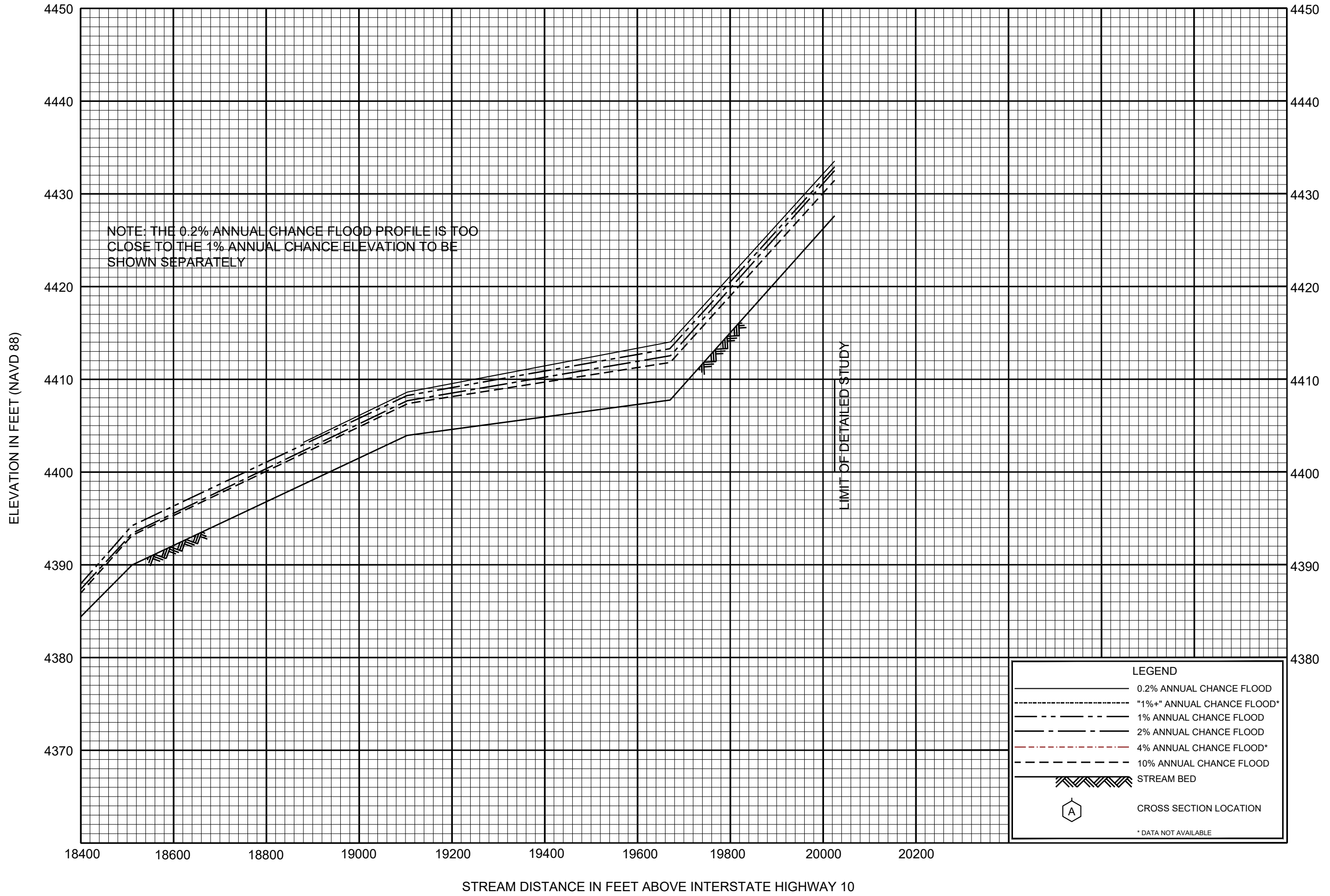
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FLOOD PROFILES
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AND INCORPORATED AREAS

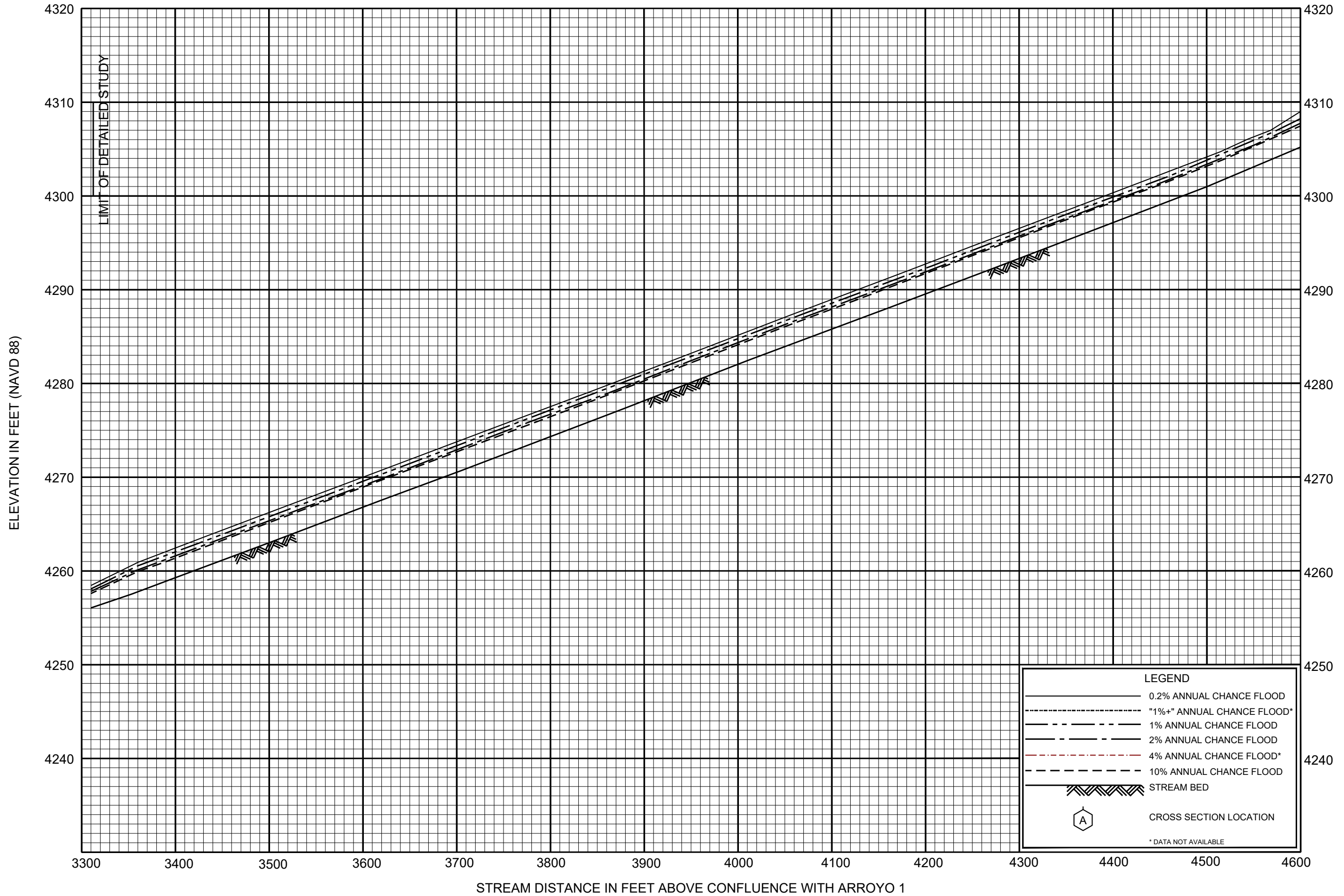


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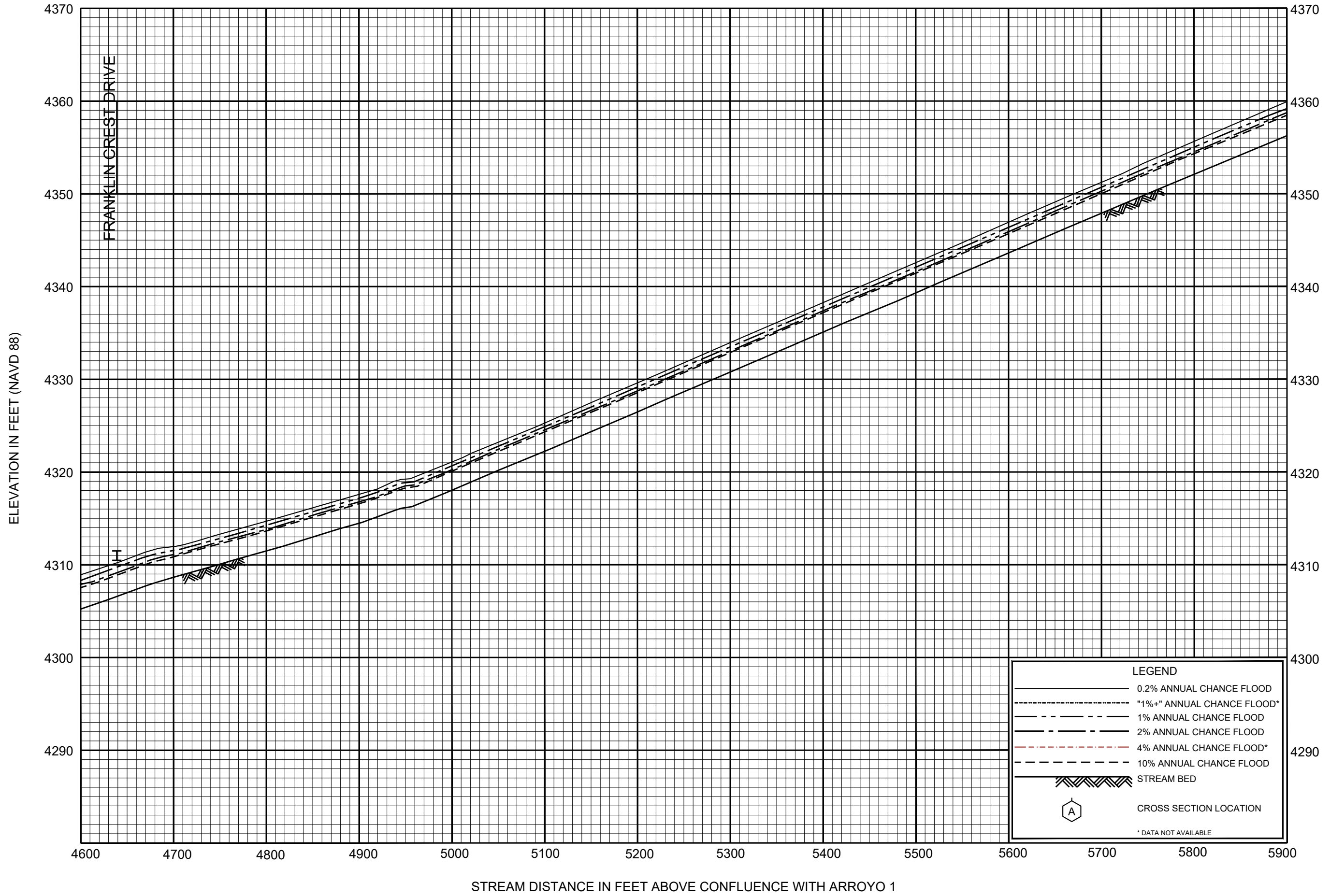
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FLOOD PROFILES
ARROYO 1A

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AND INCORPORATED AREAS

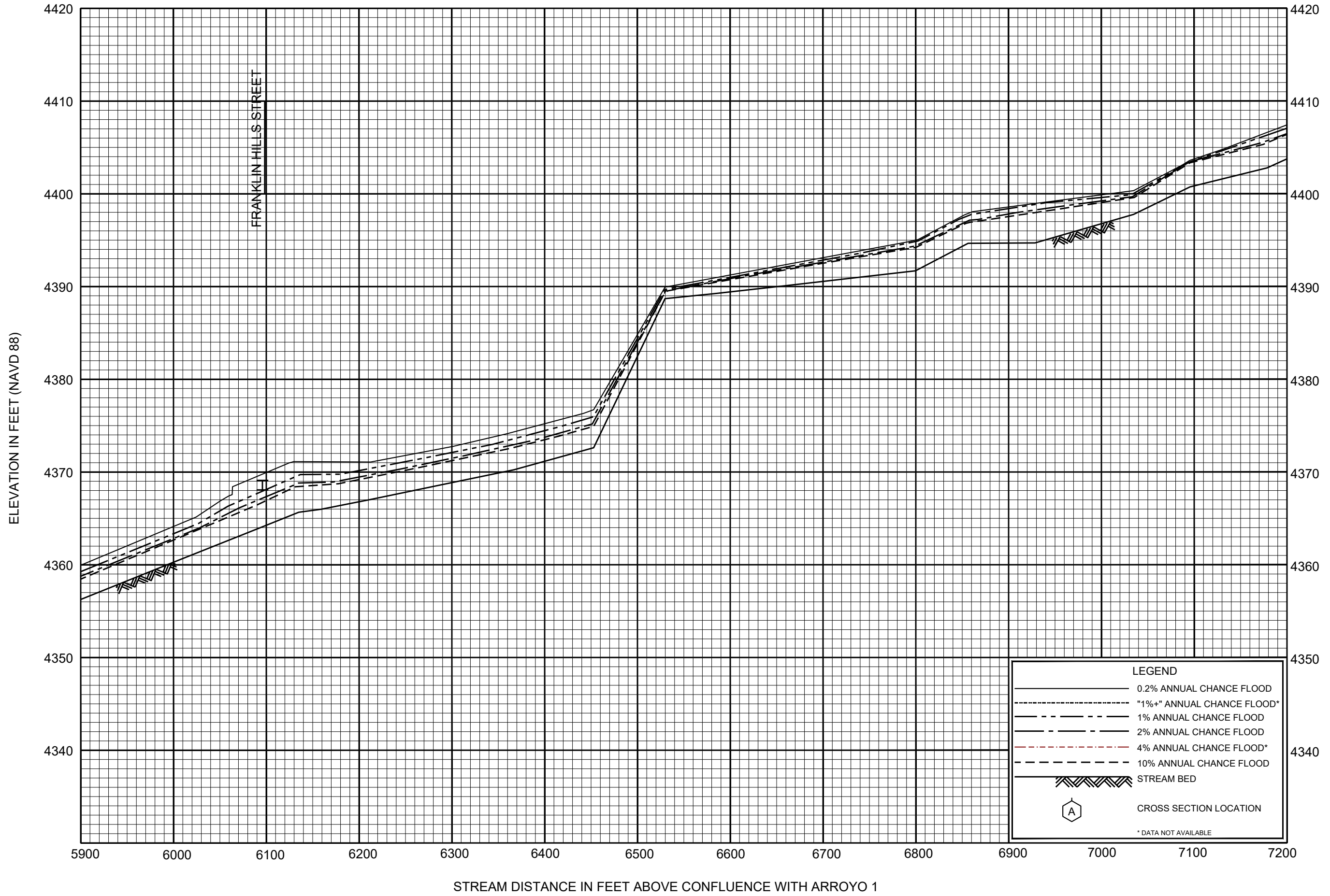


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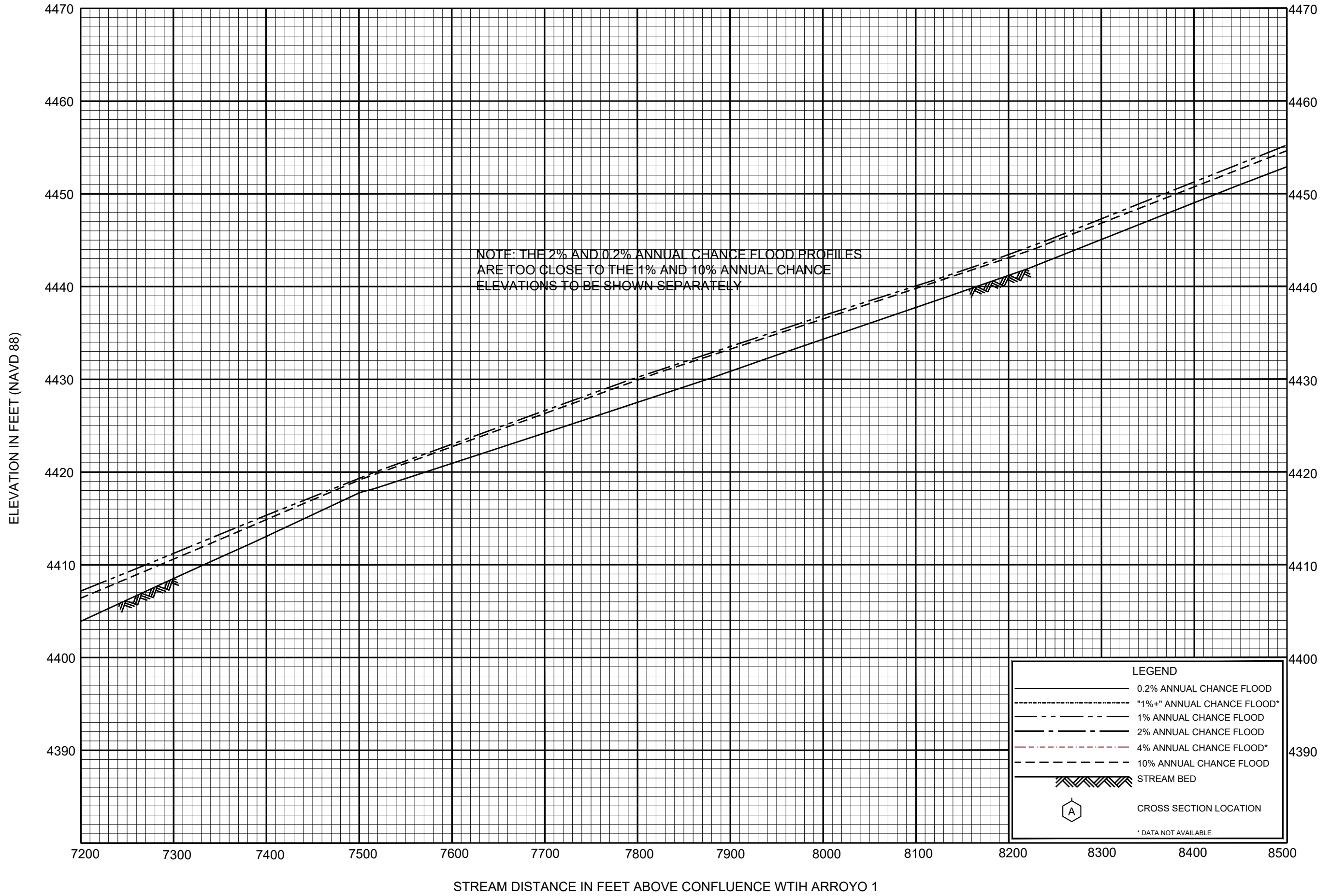
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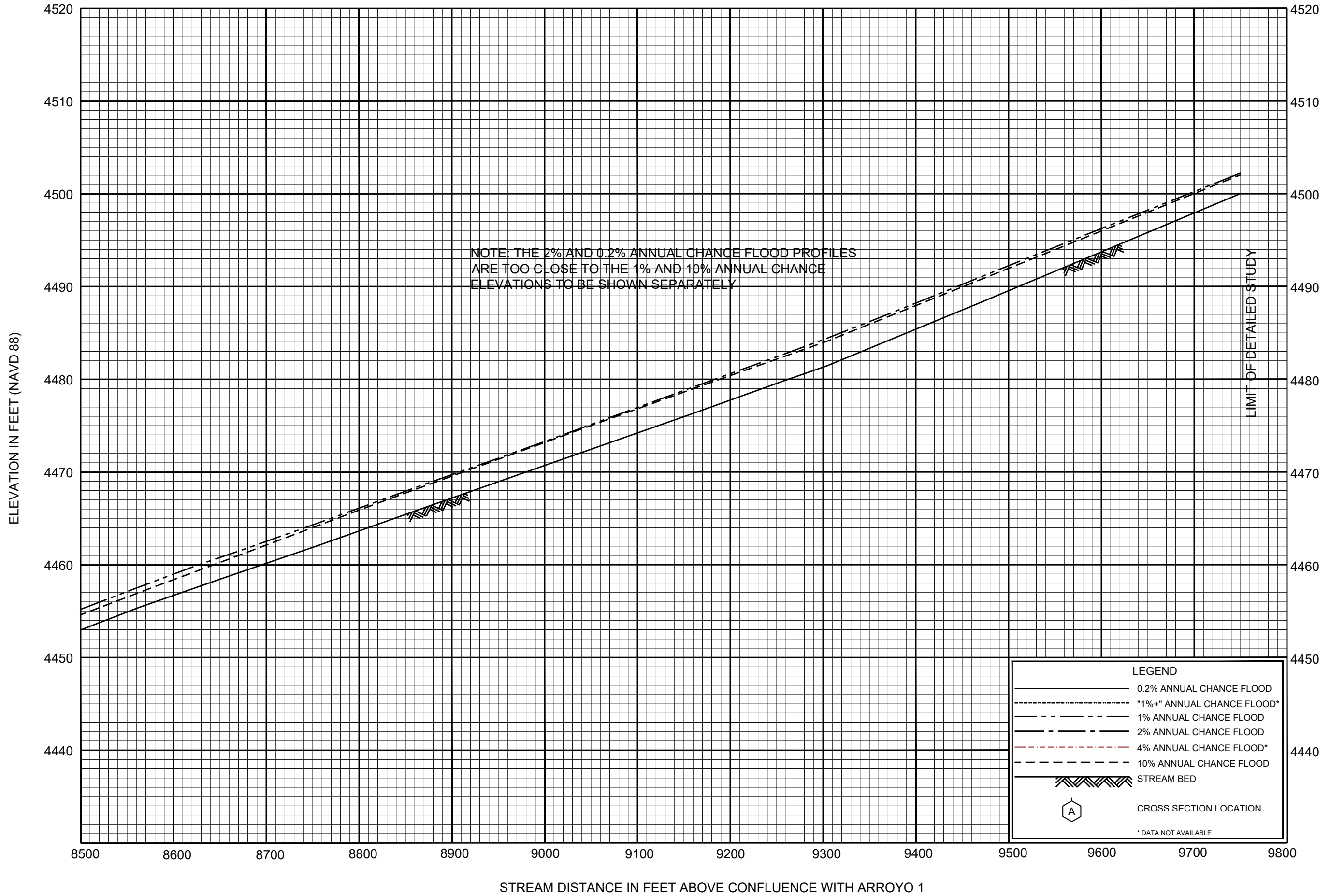
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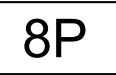


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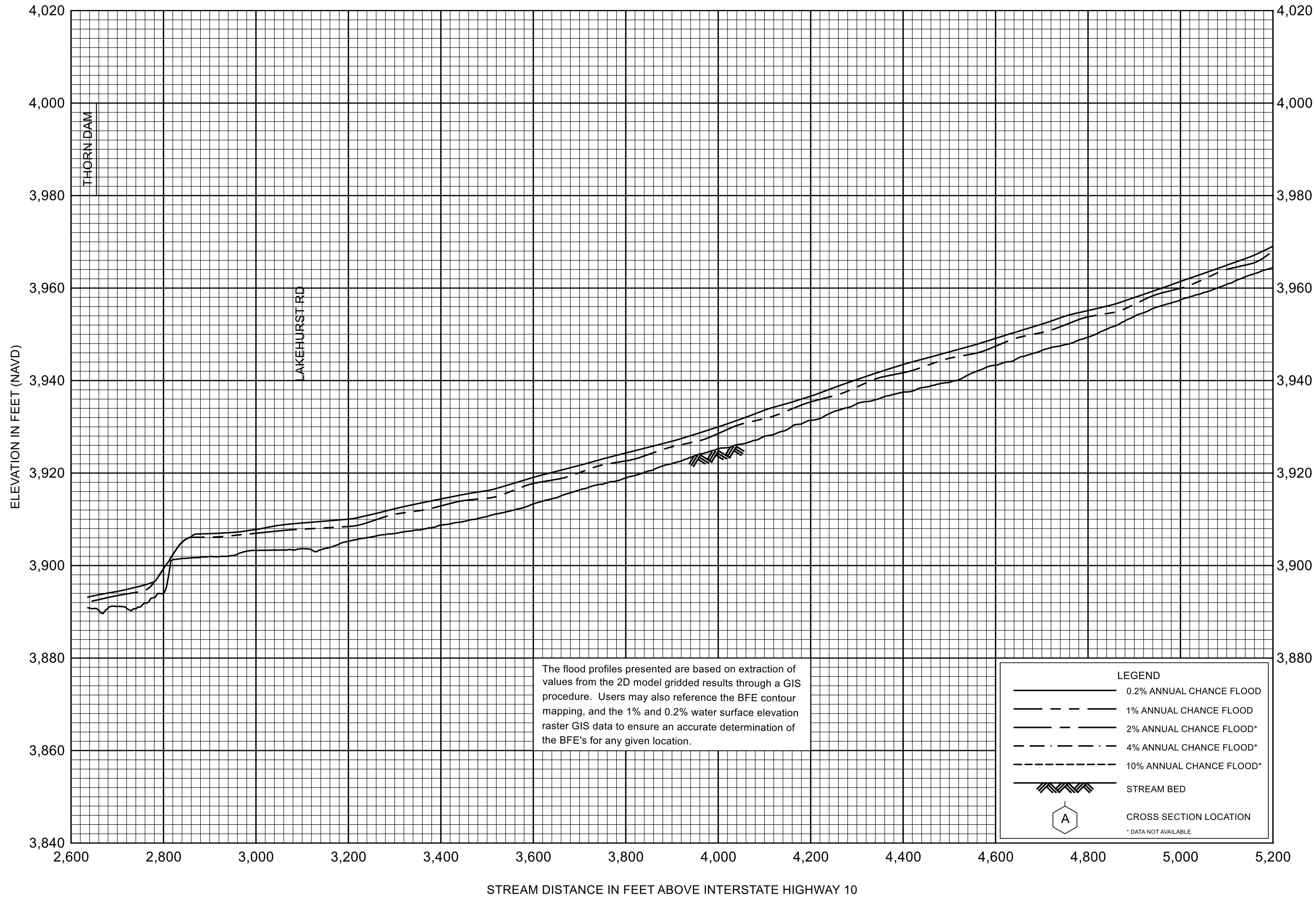
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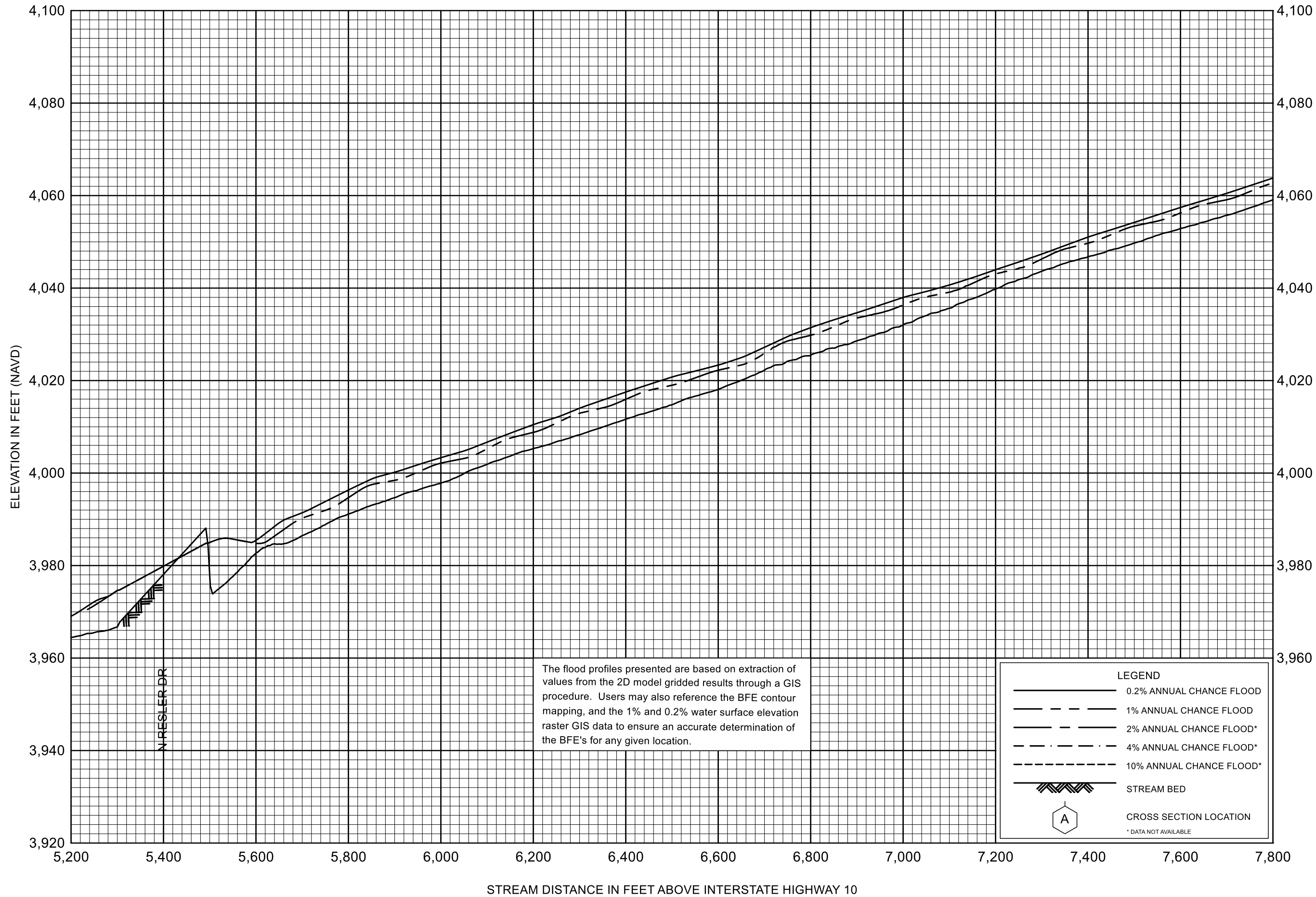


STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH ARROYO 1



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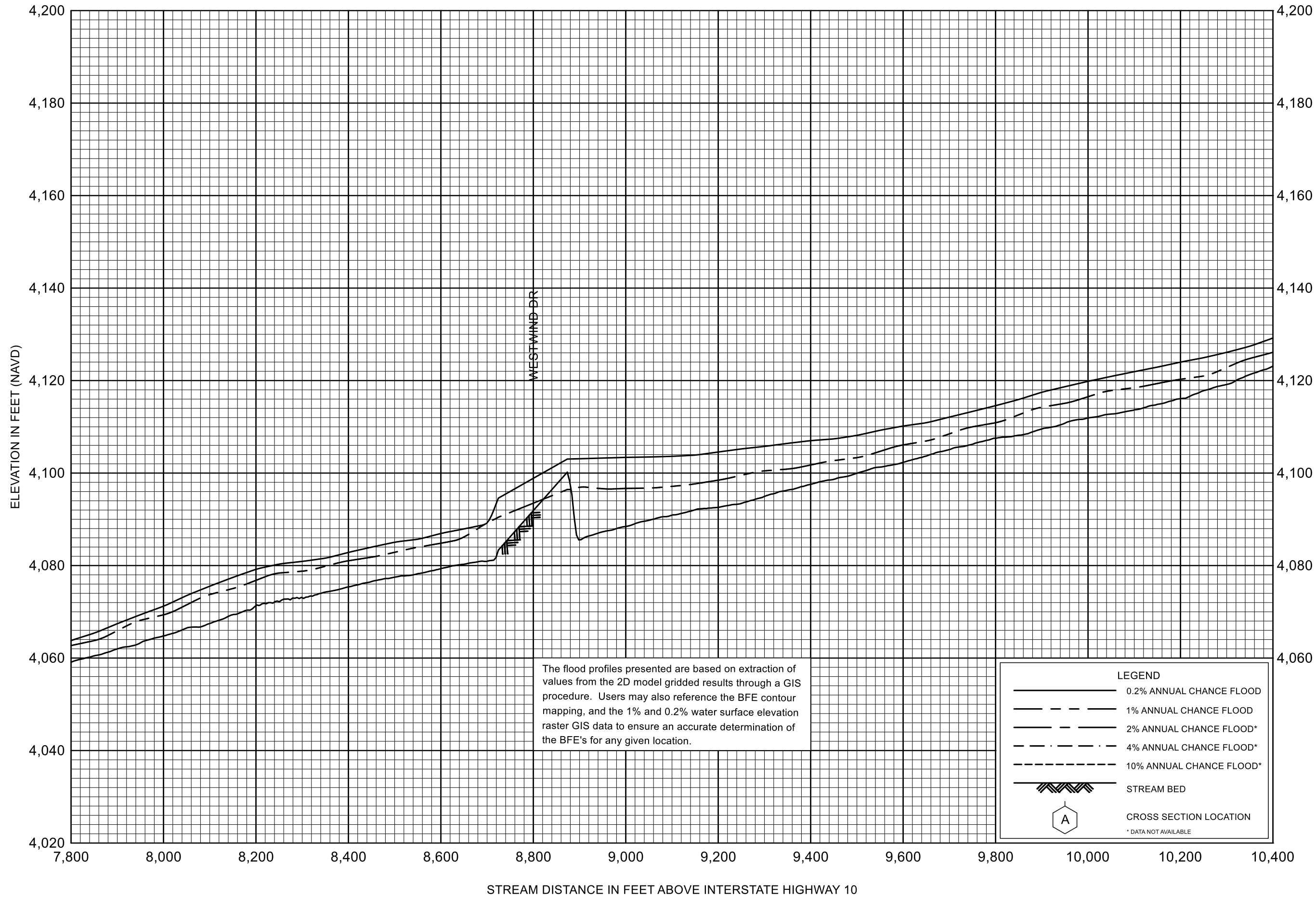


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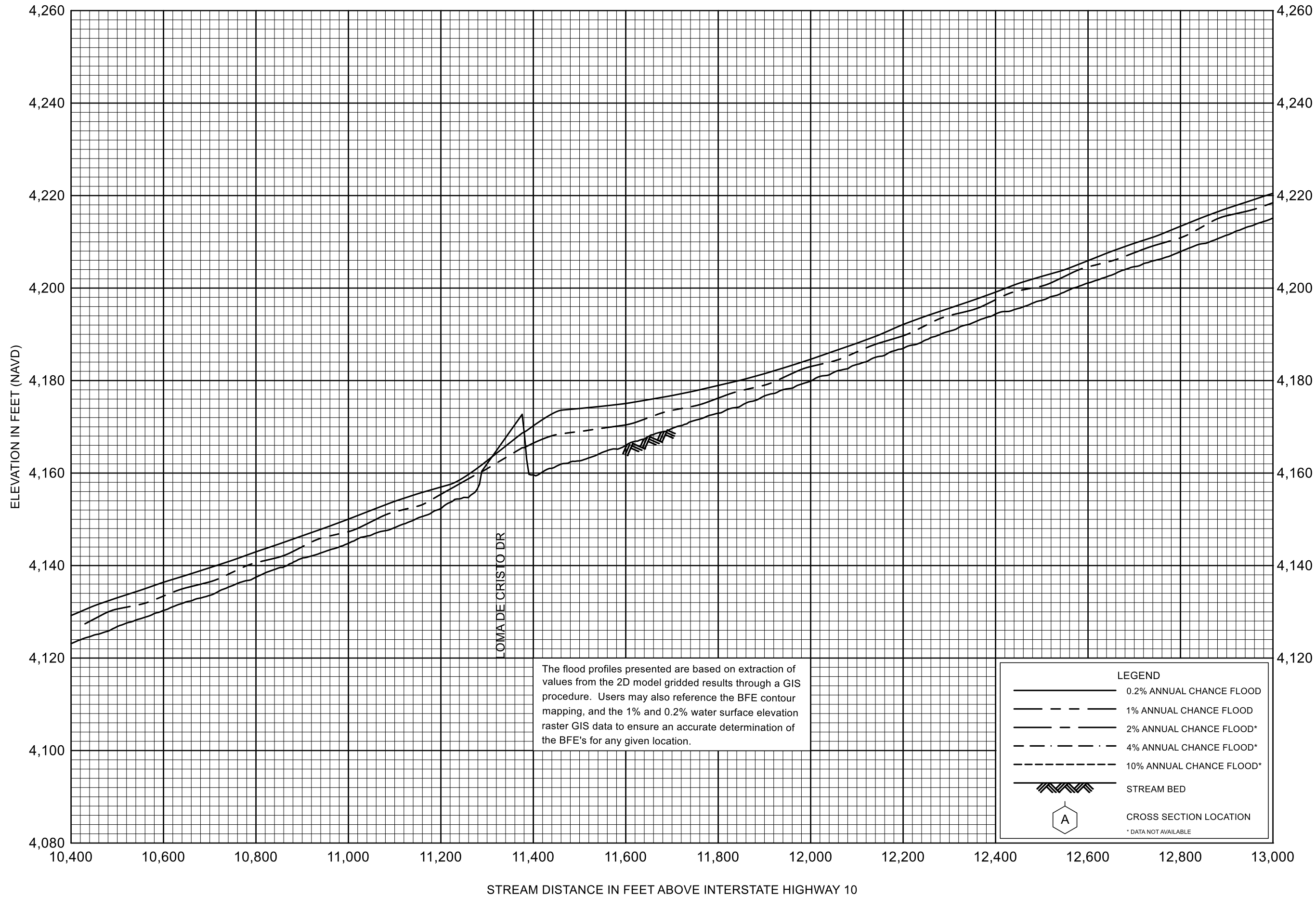


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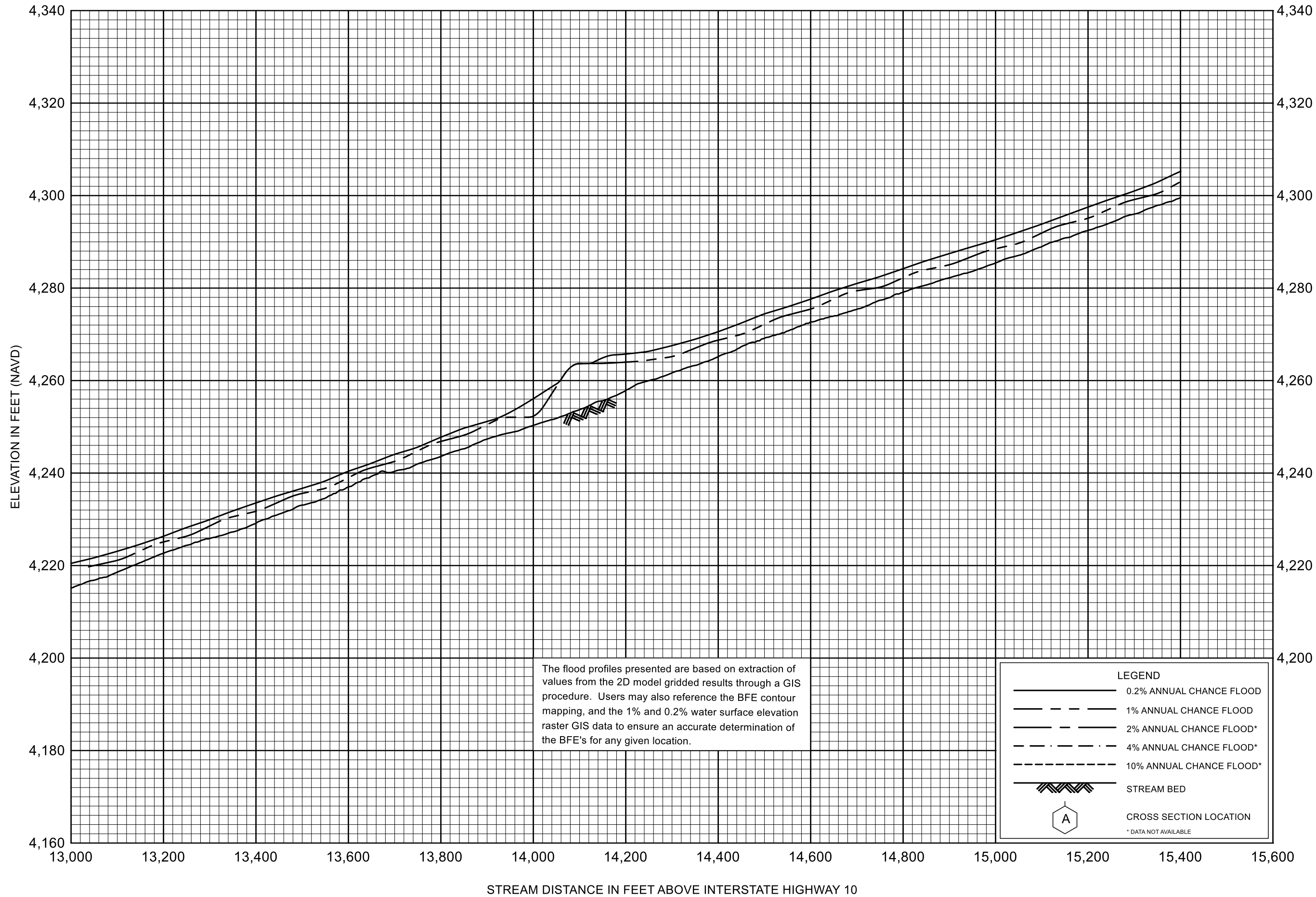


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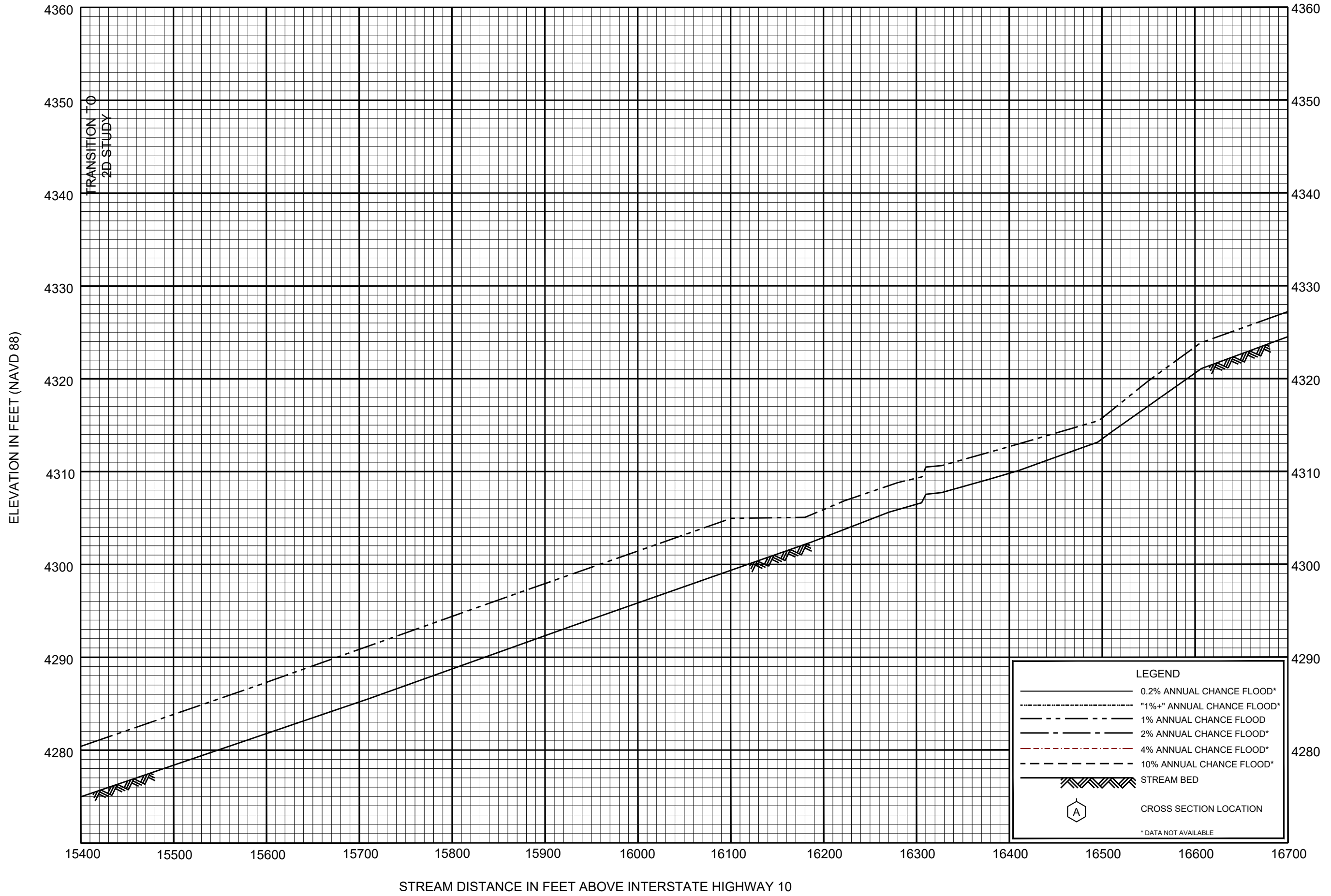
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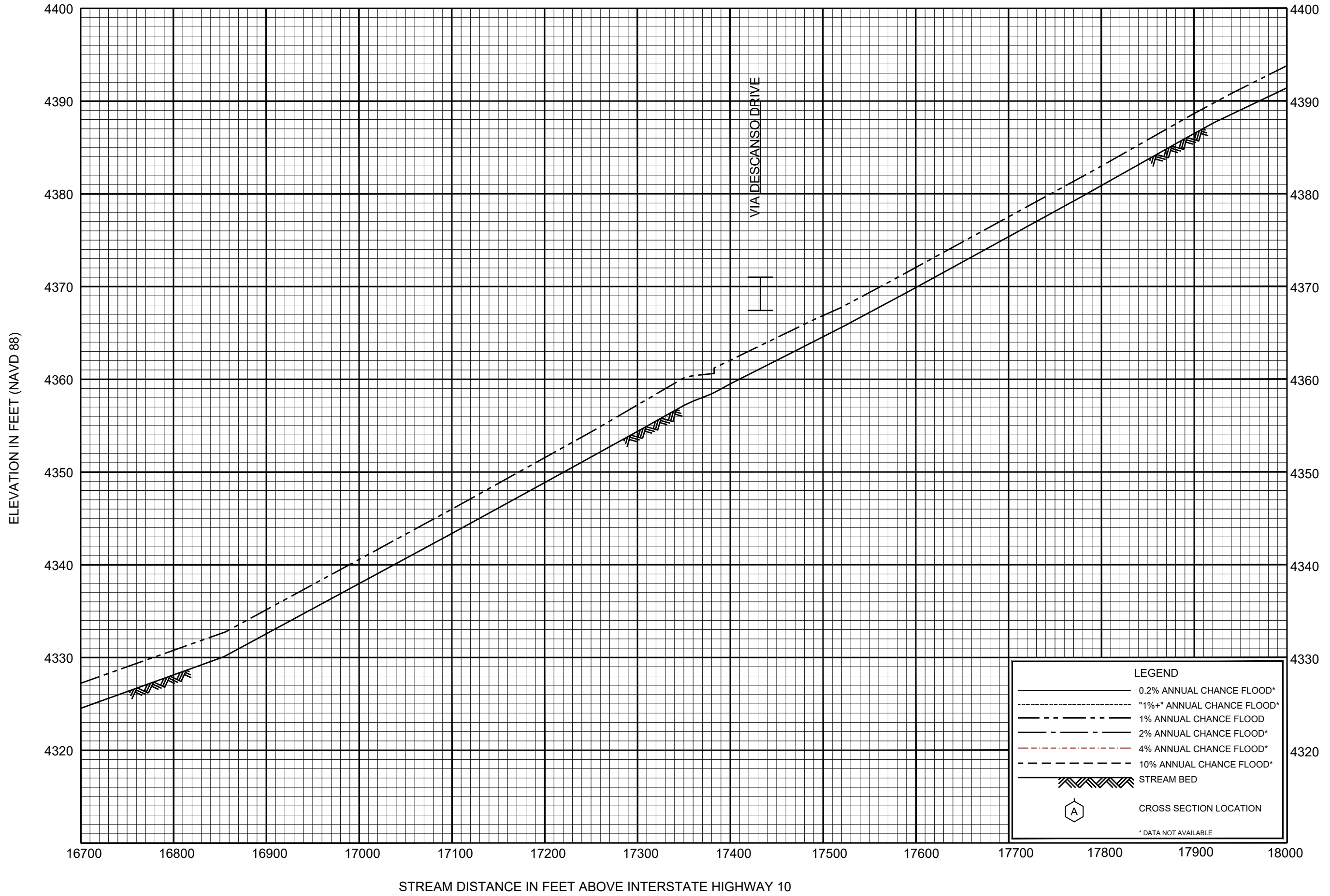
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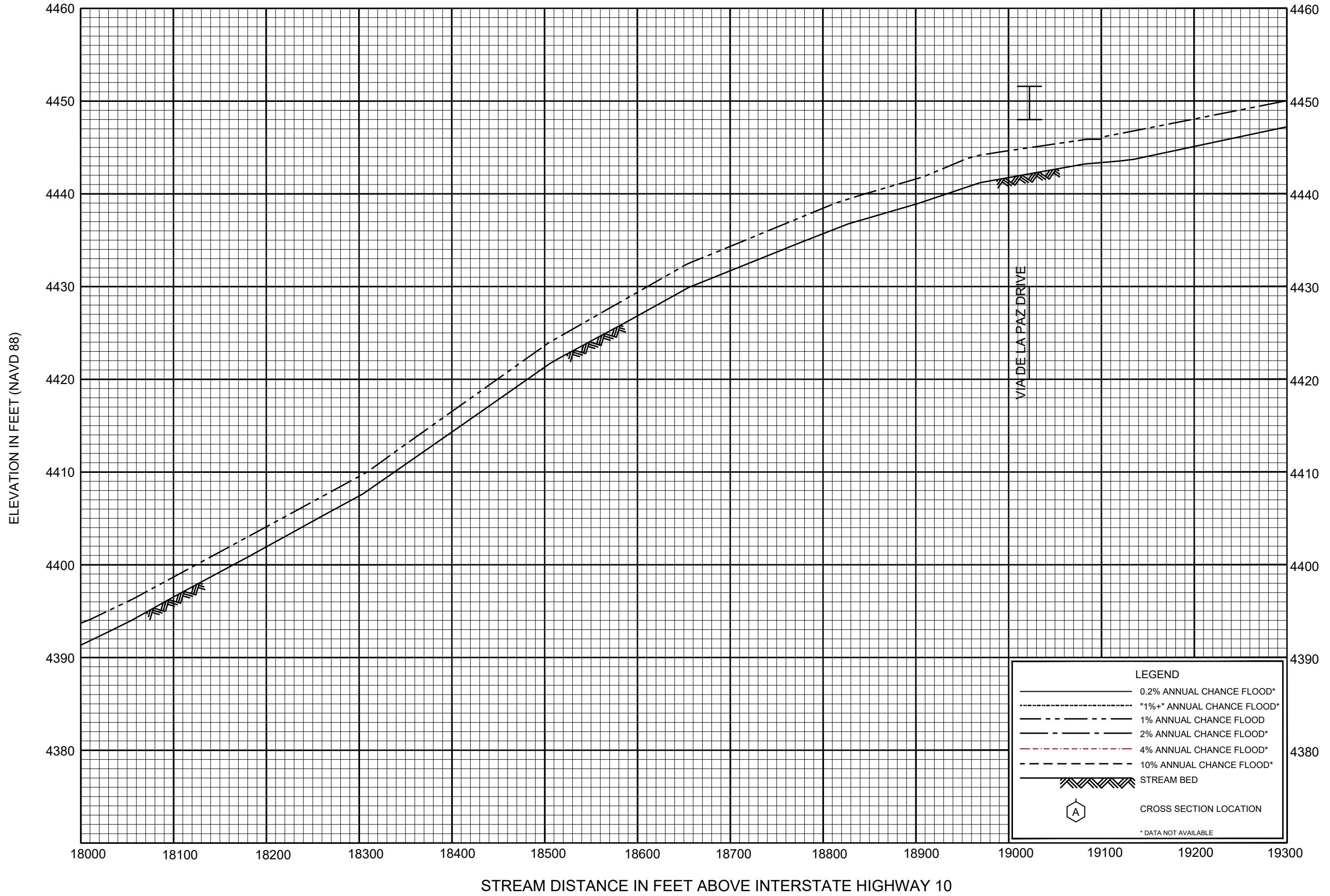
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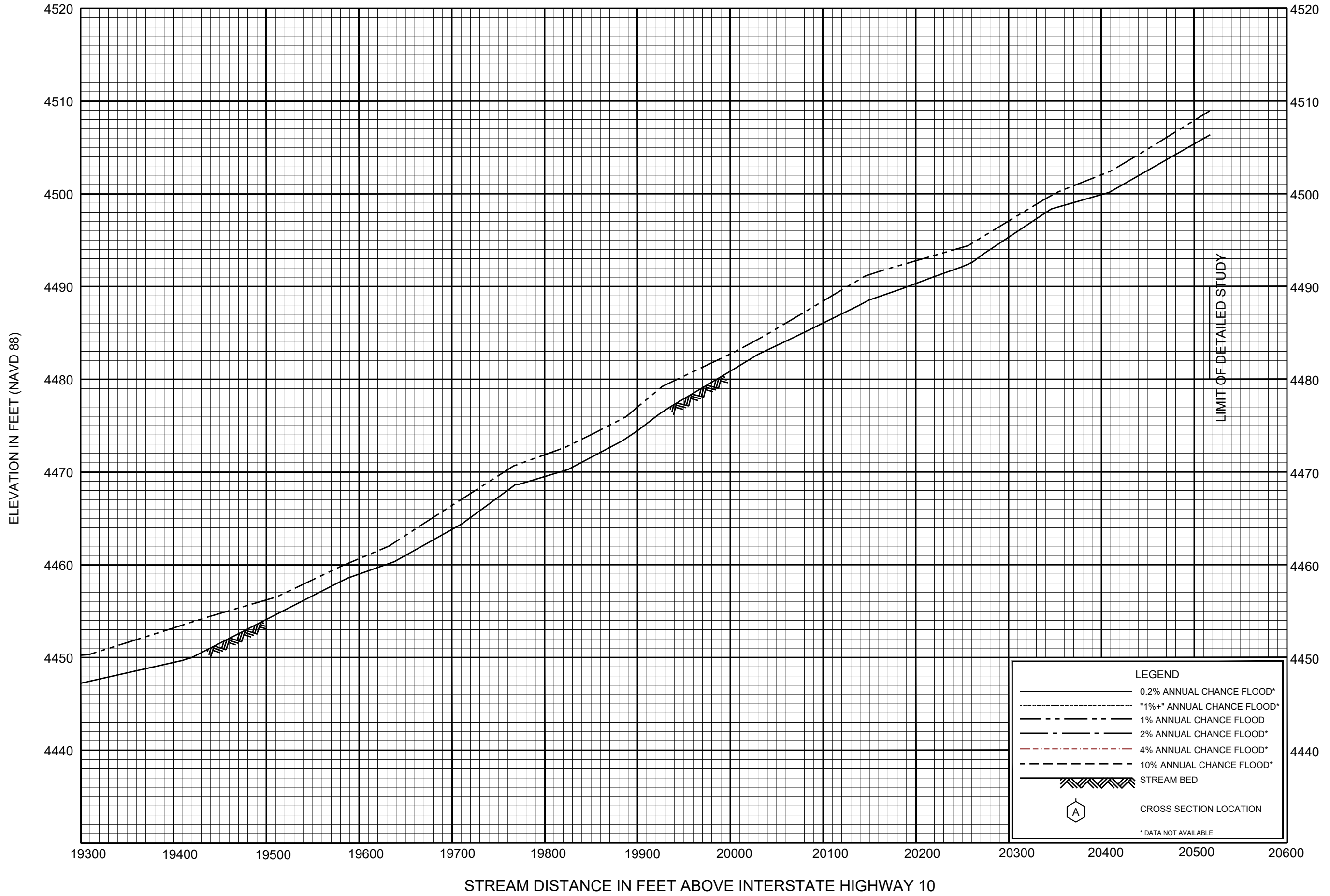


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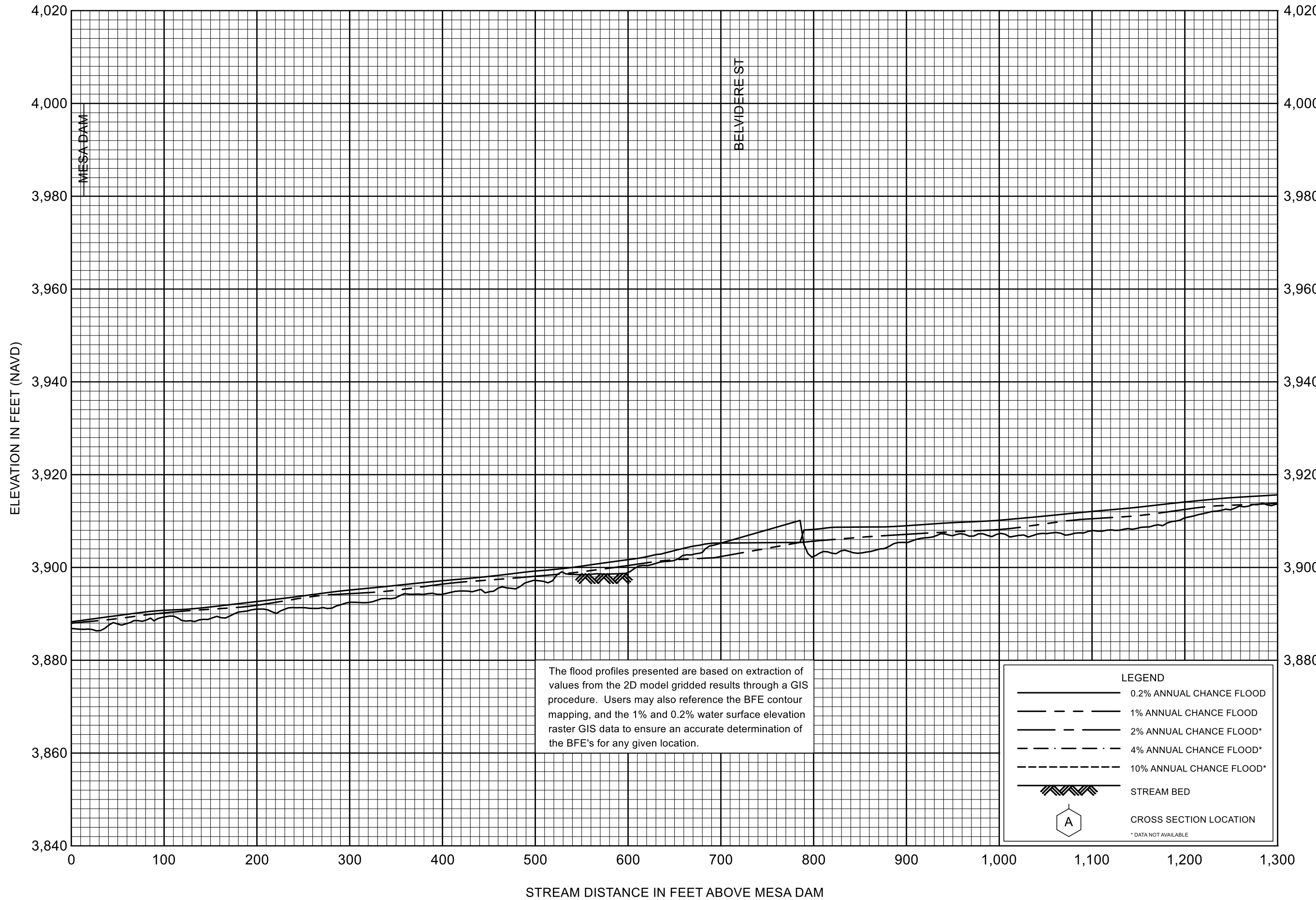
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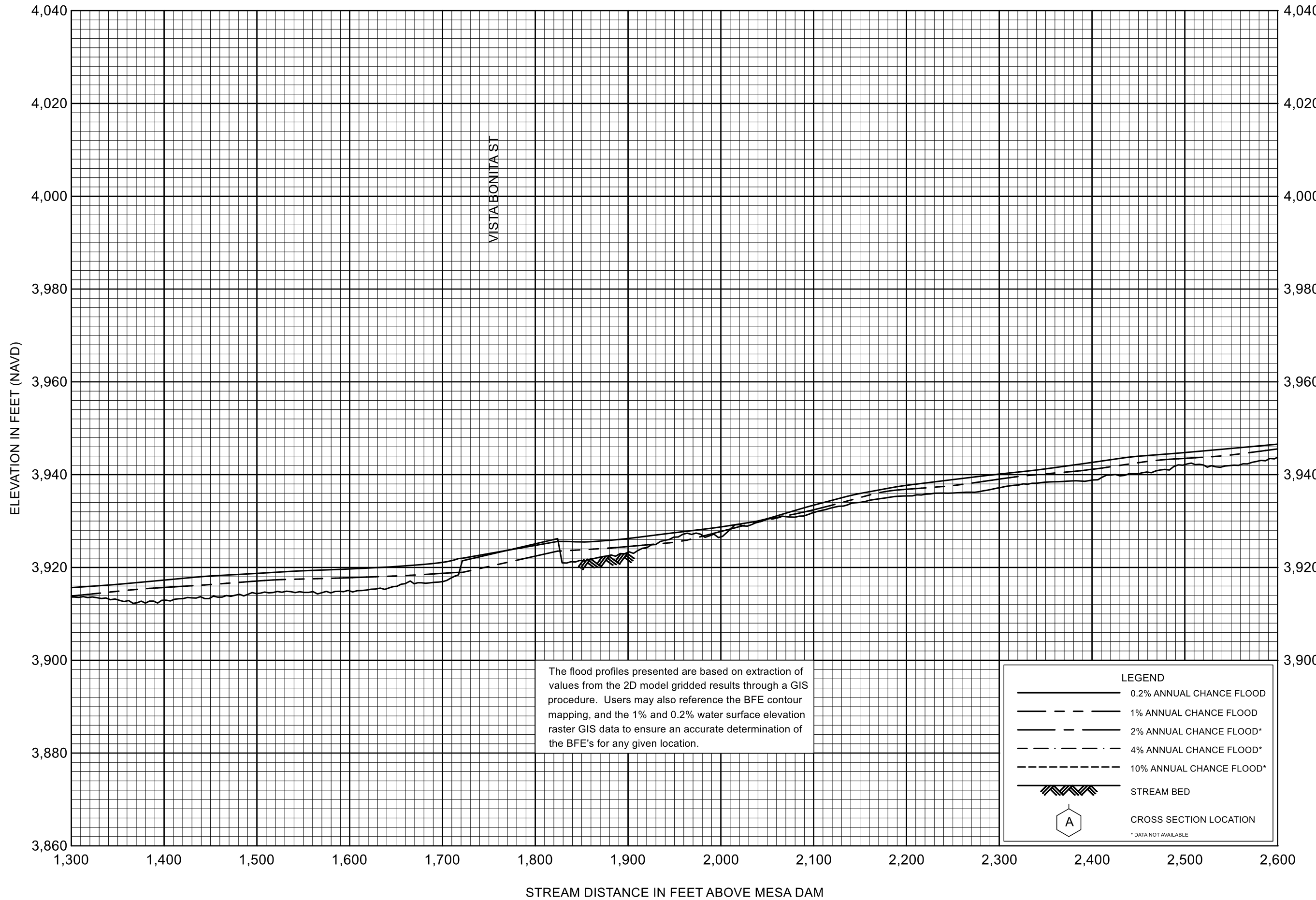


FLOOD PROFILES

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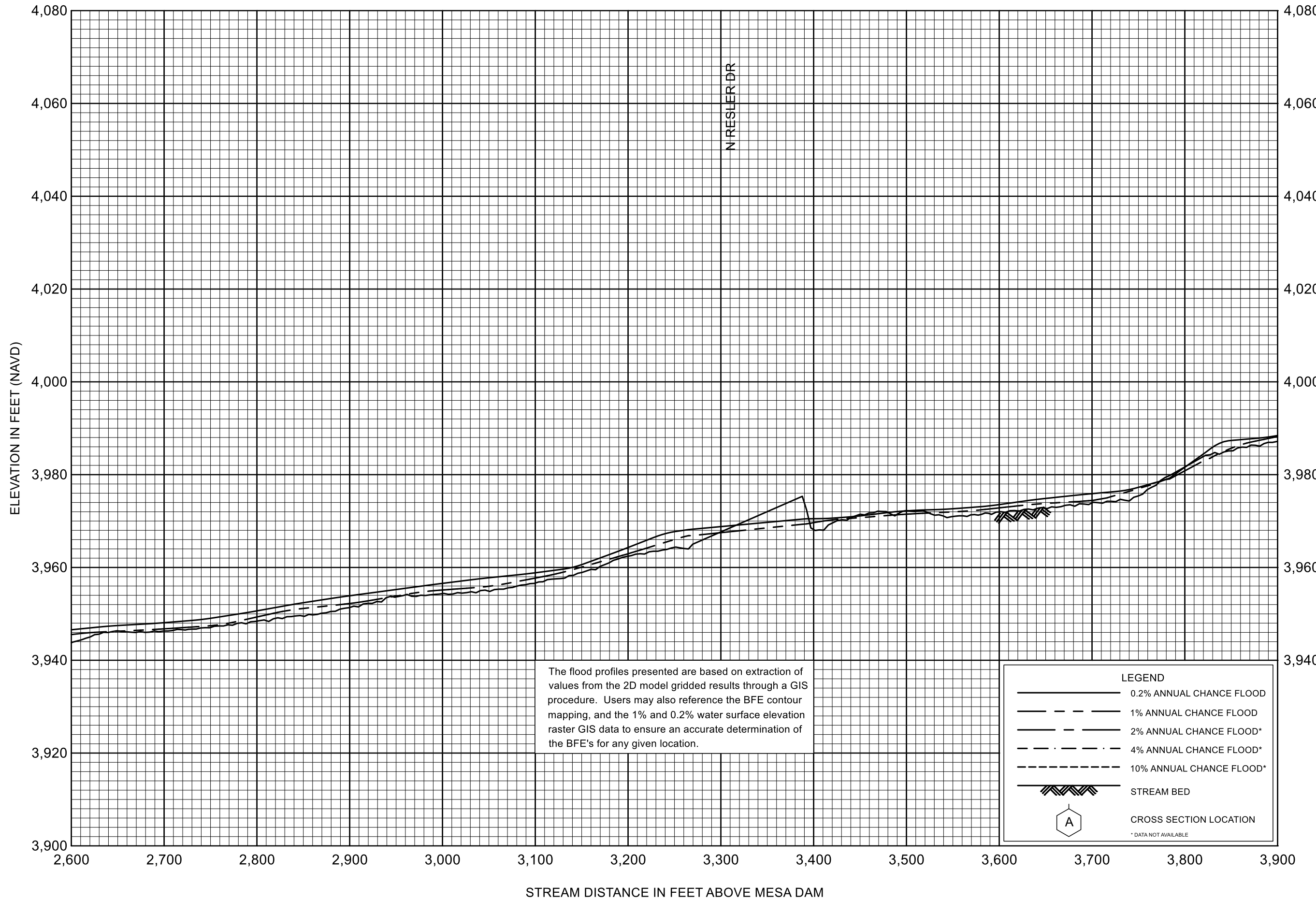


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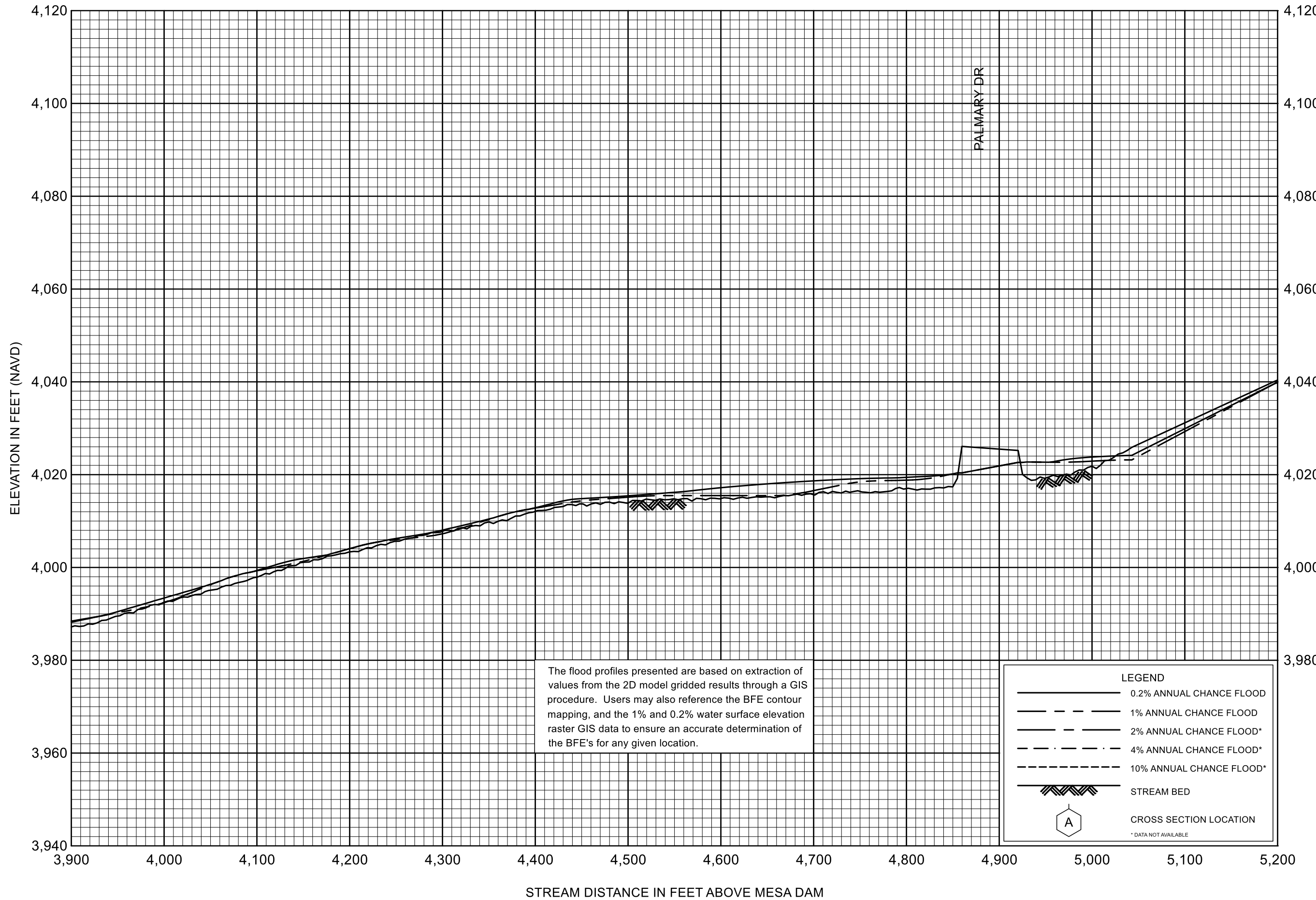


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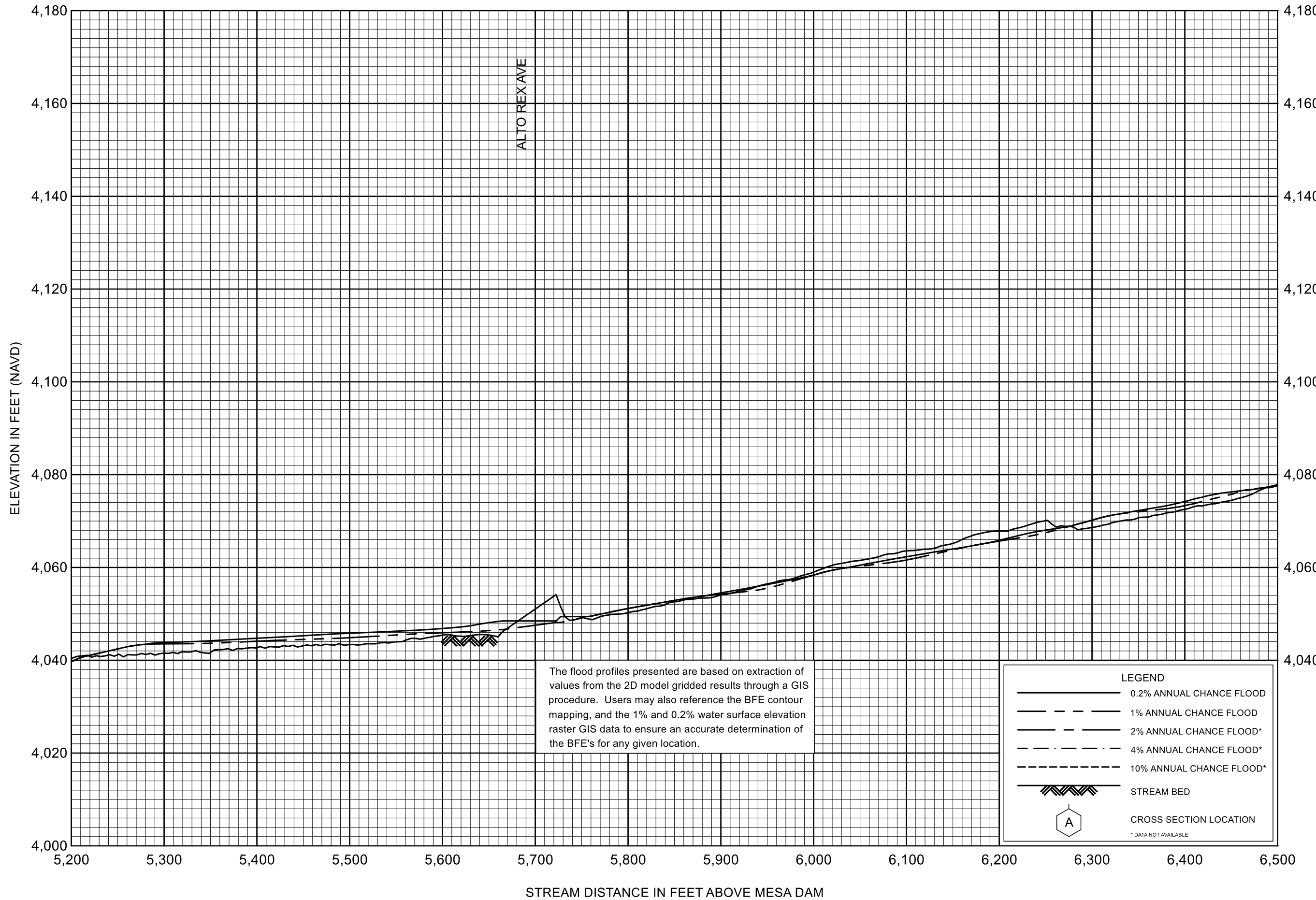


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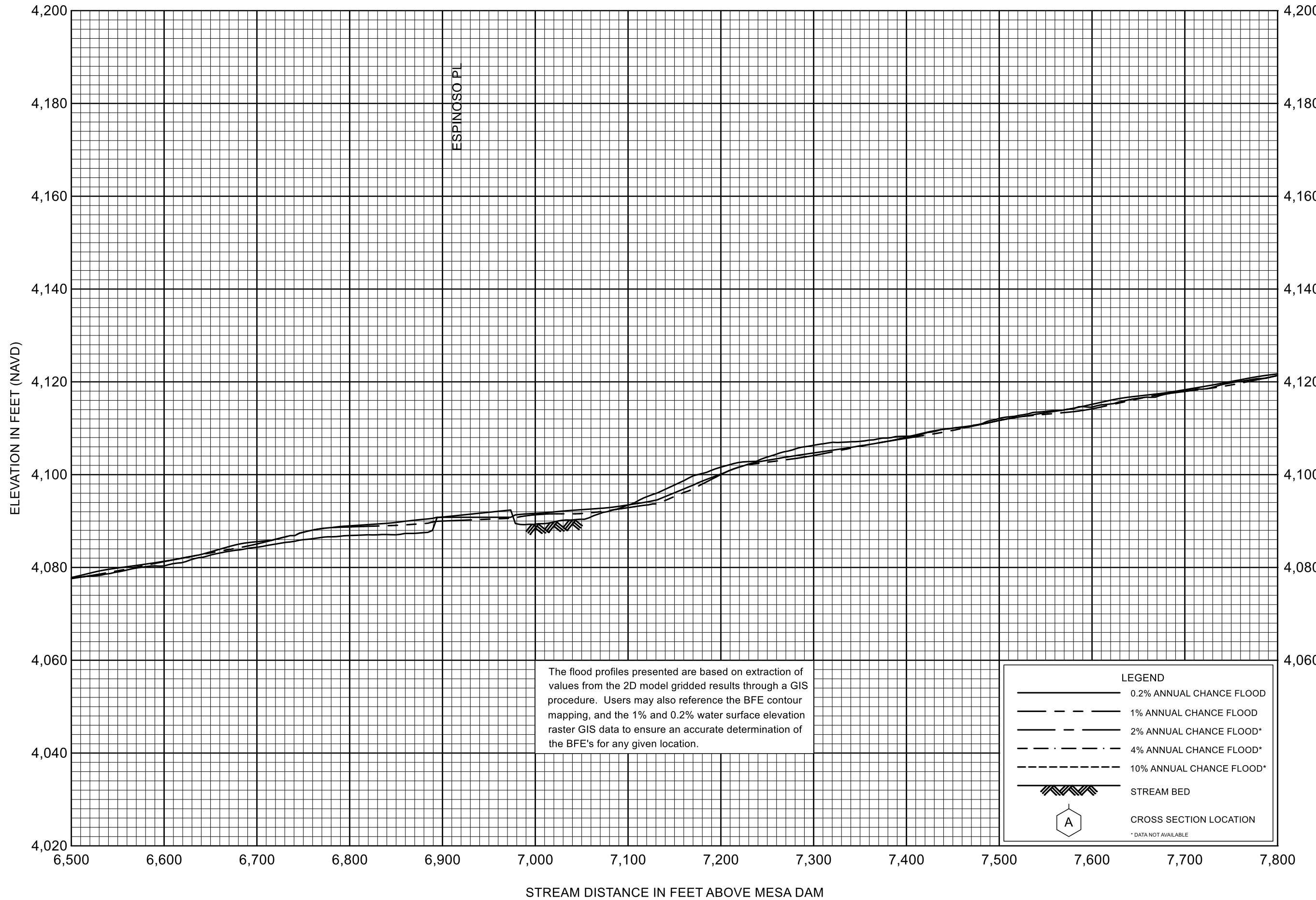


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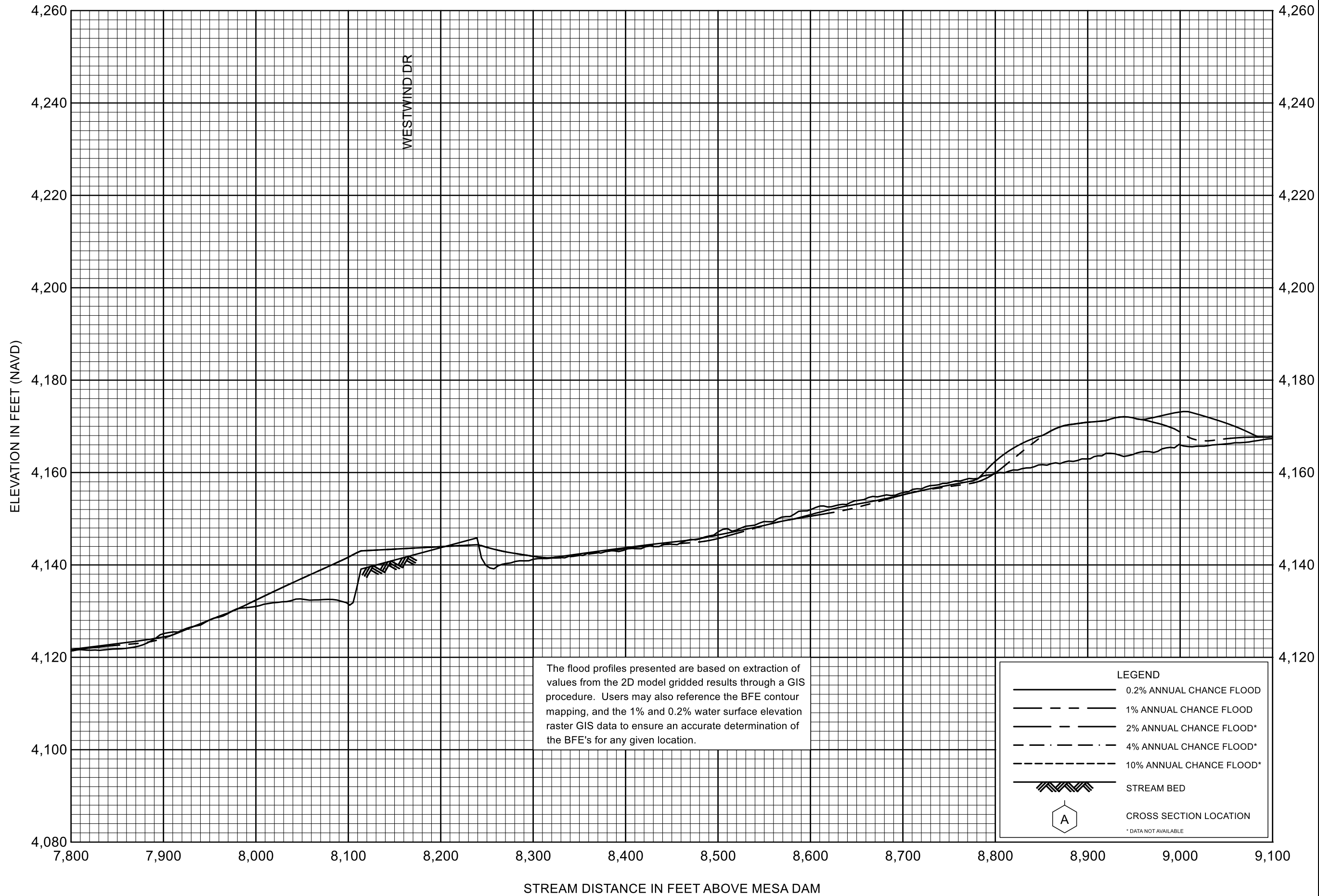


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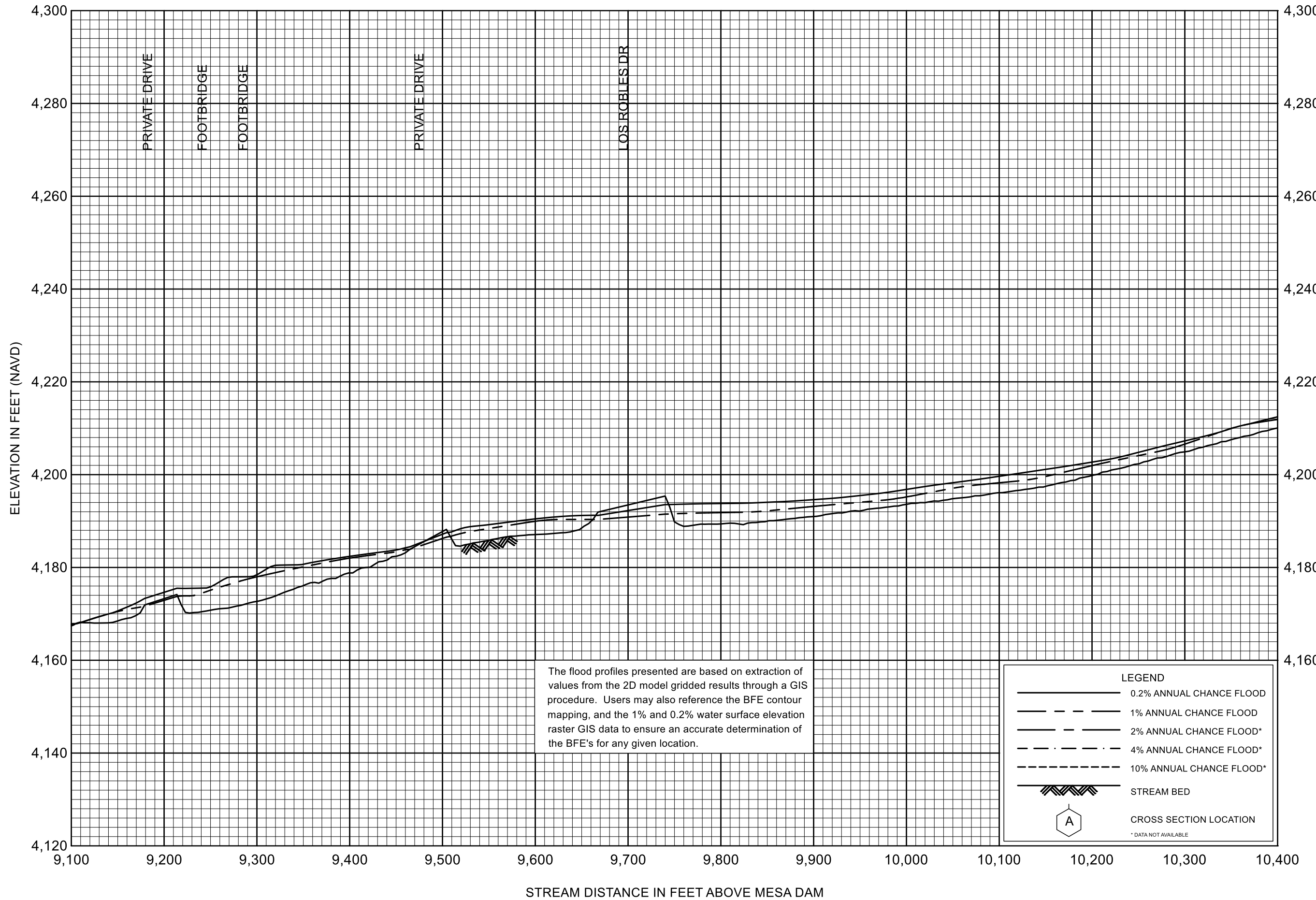


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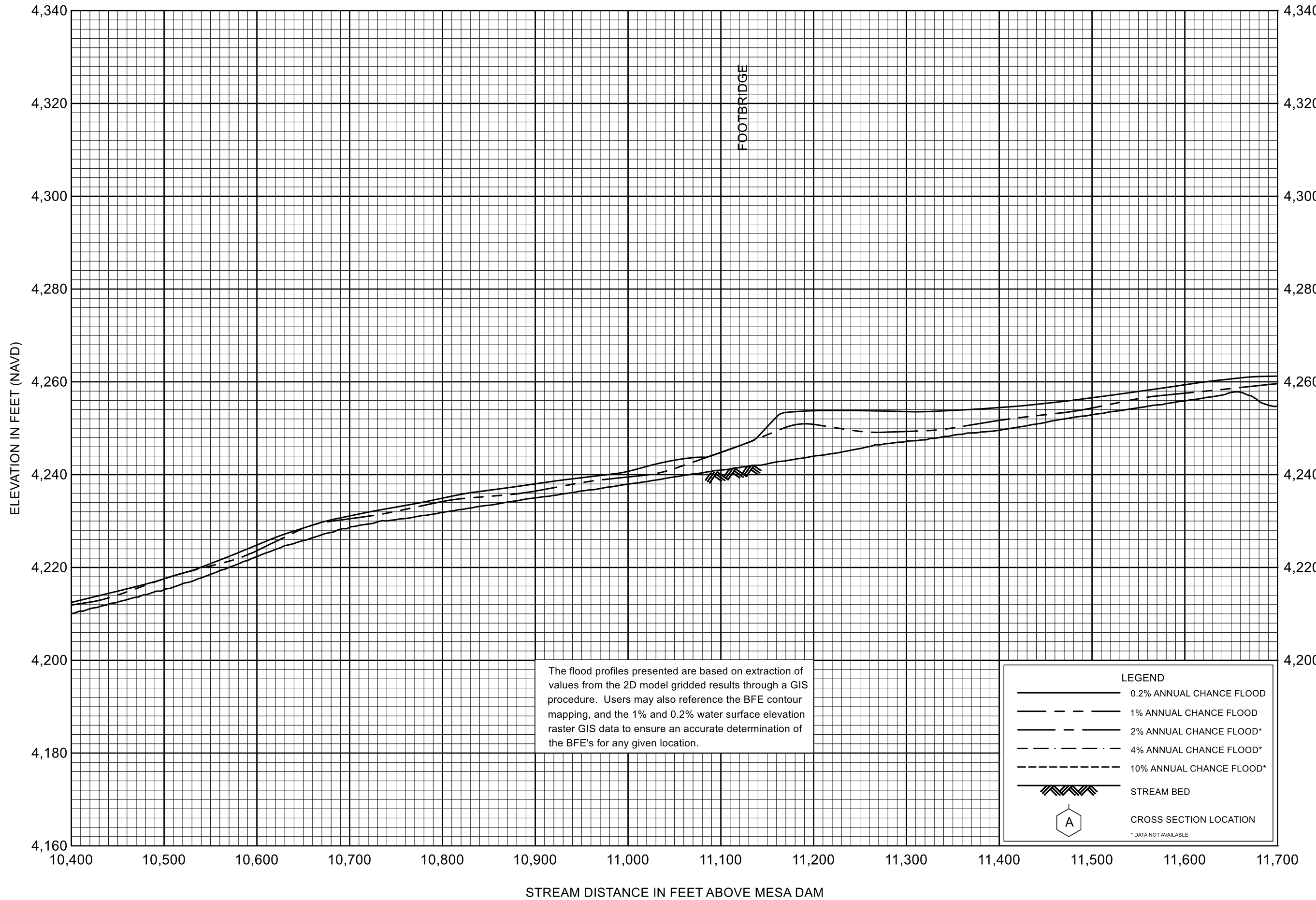


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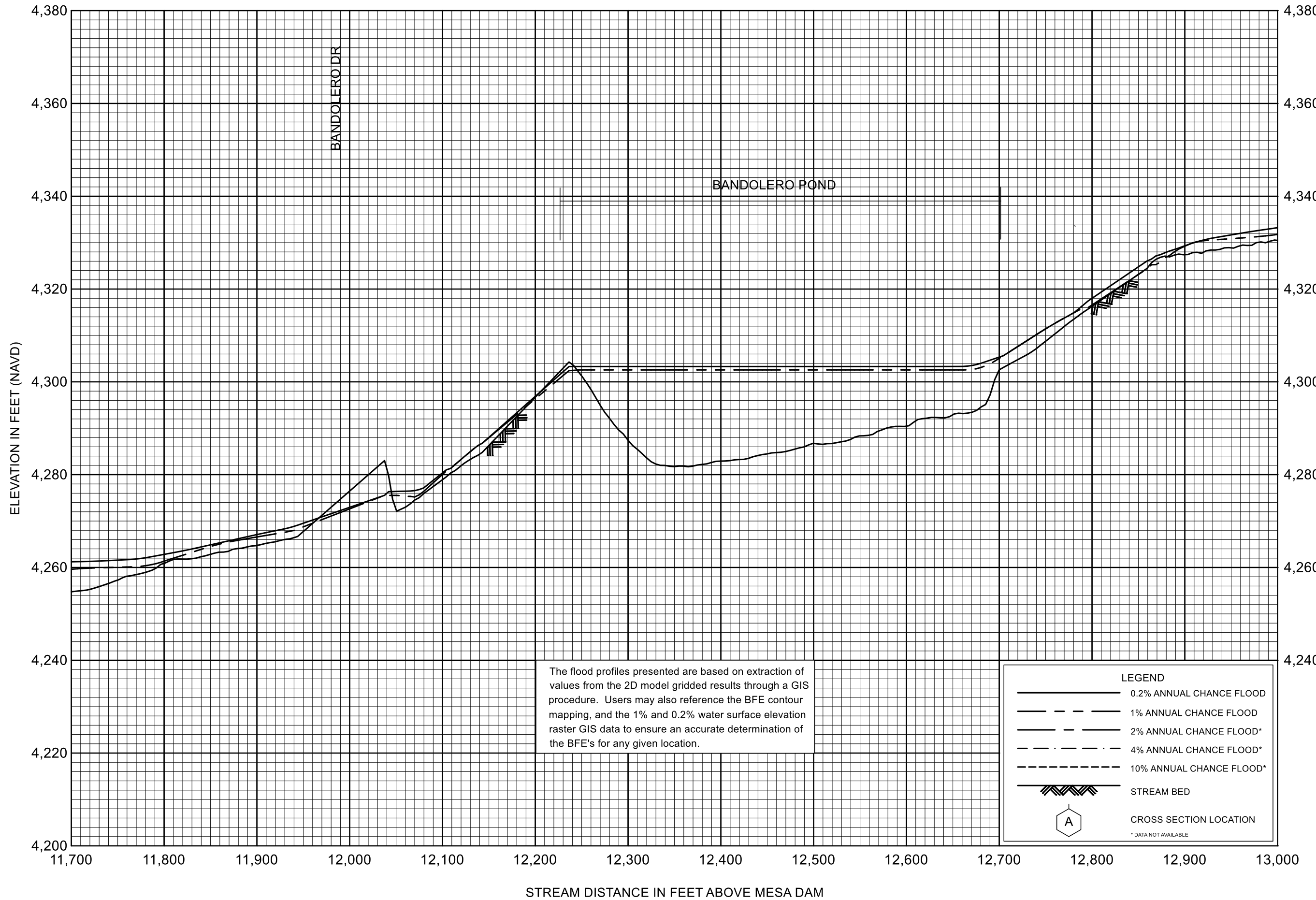


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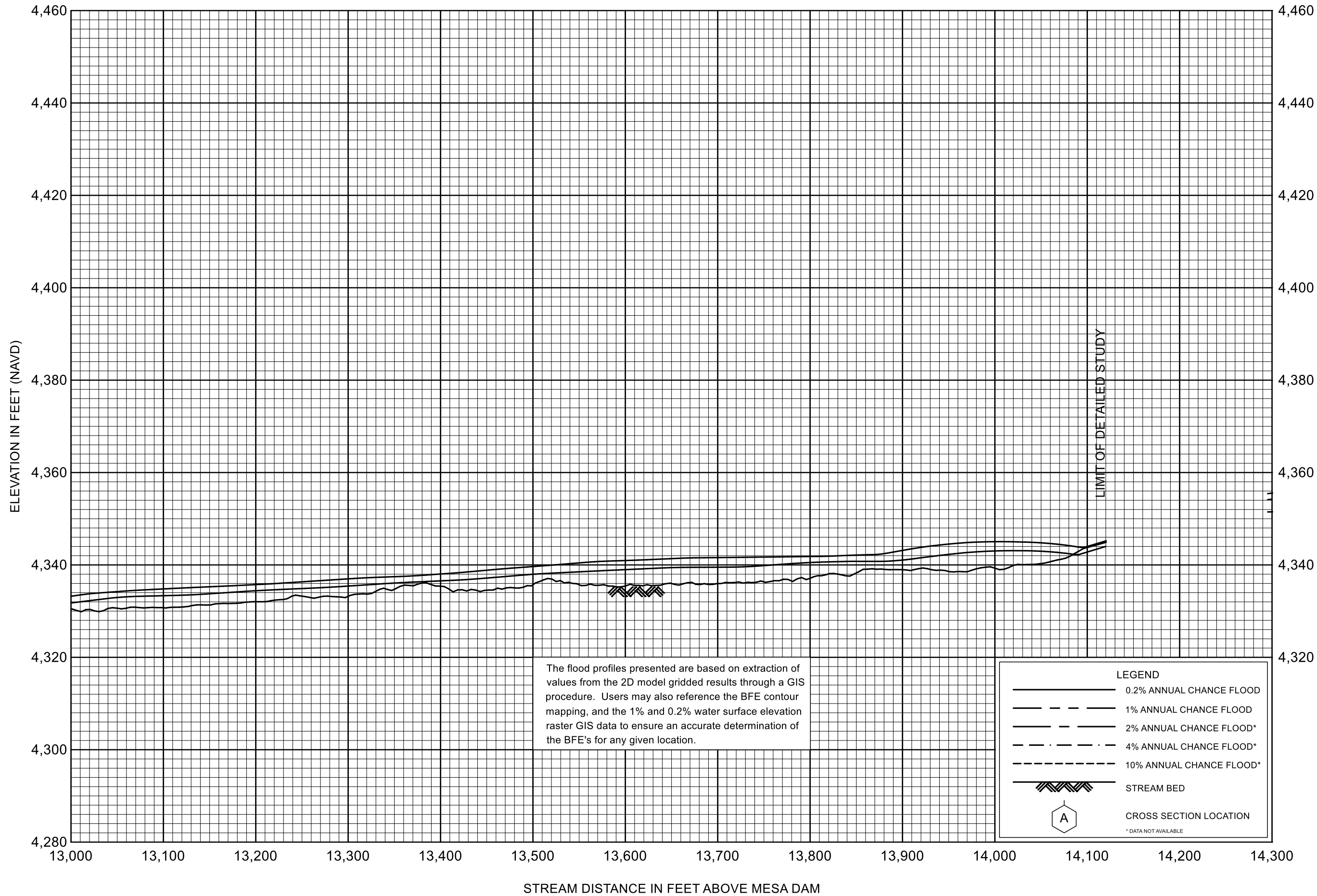


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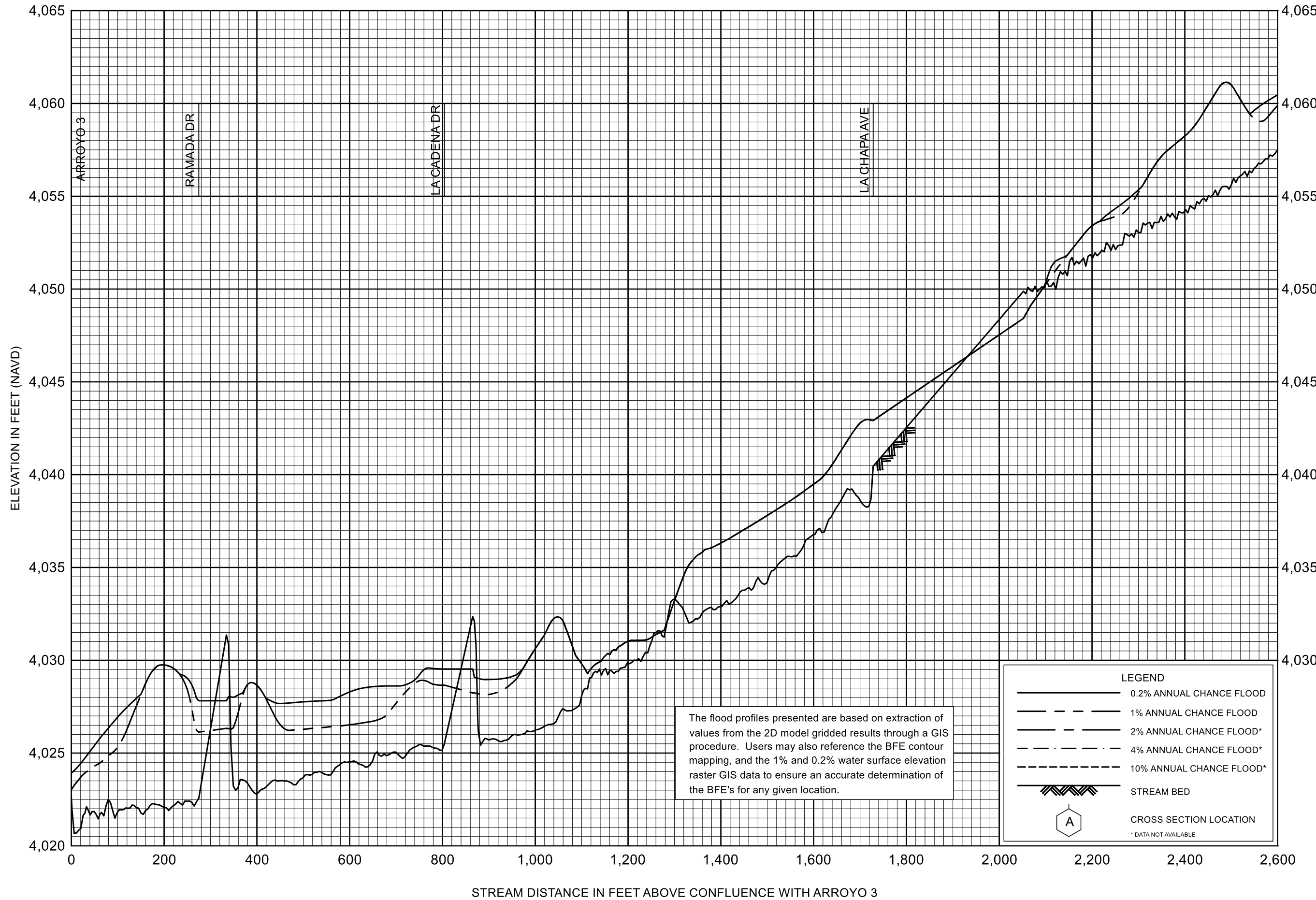


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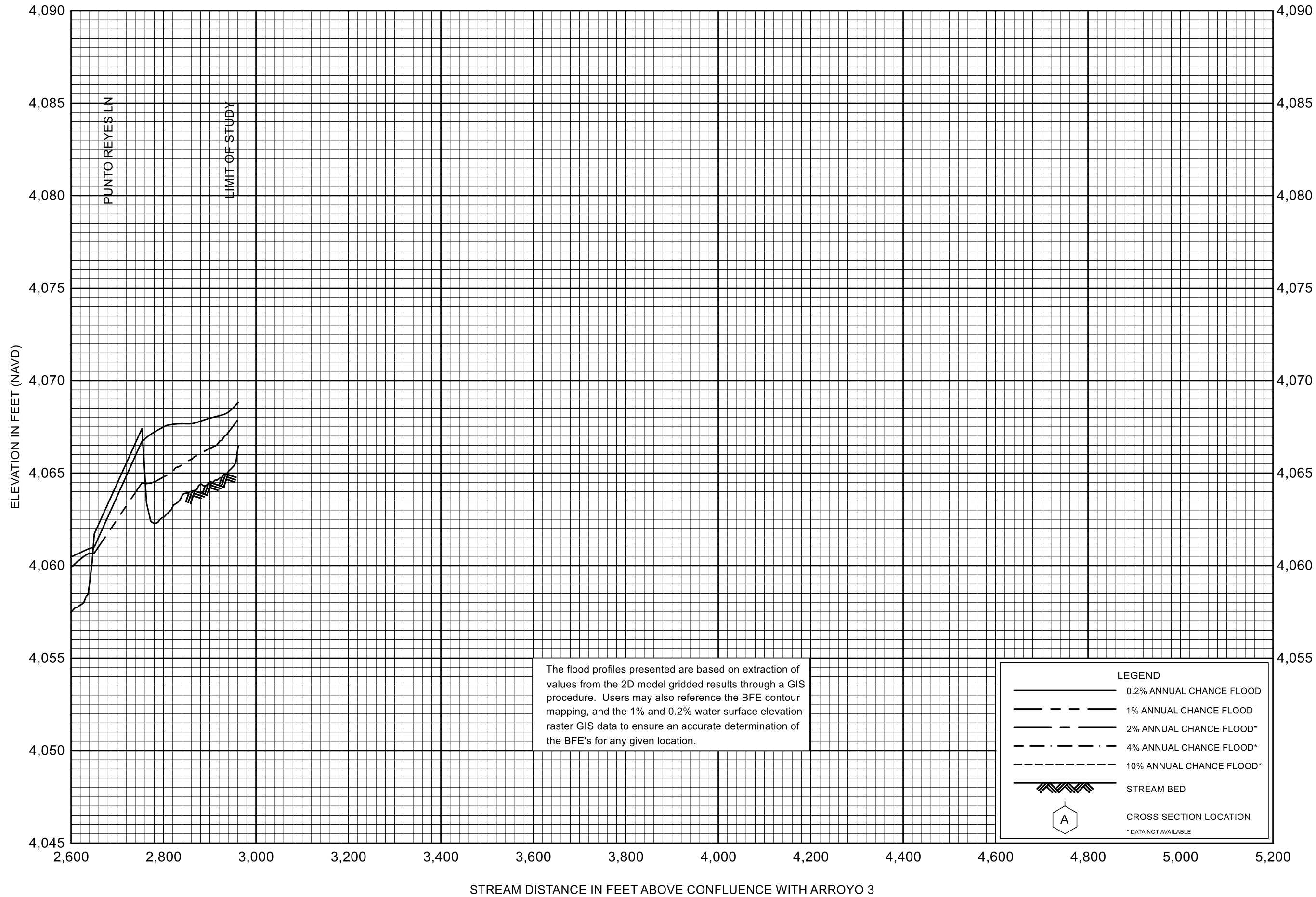


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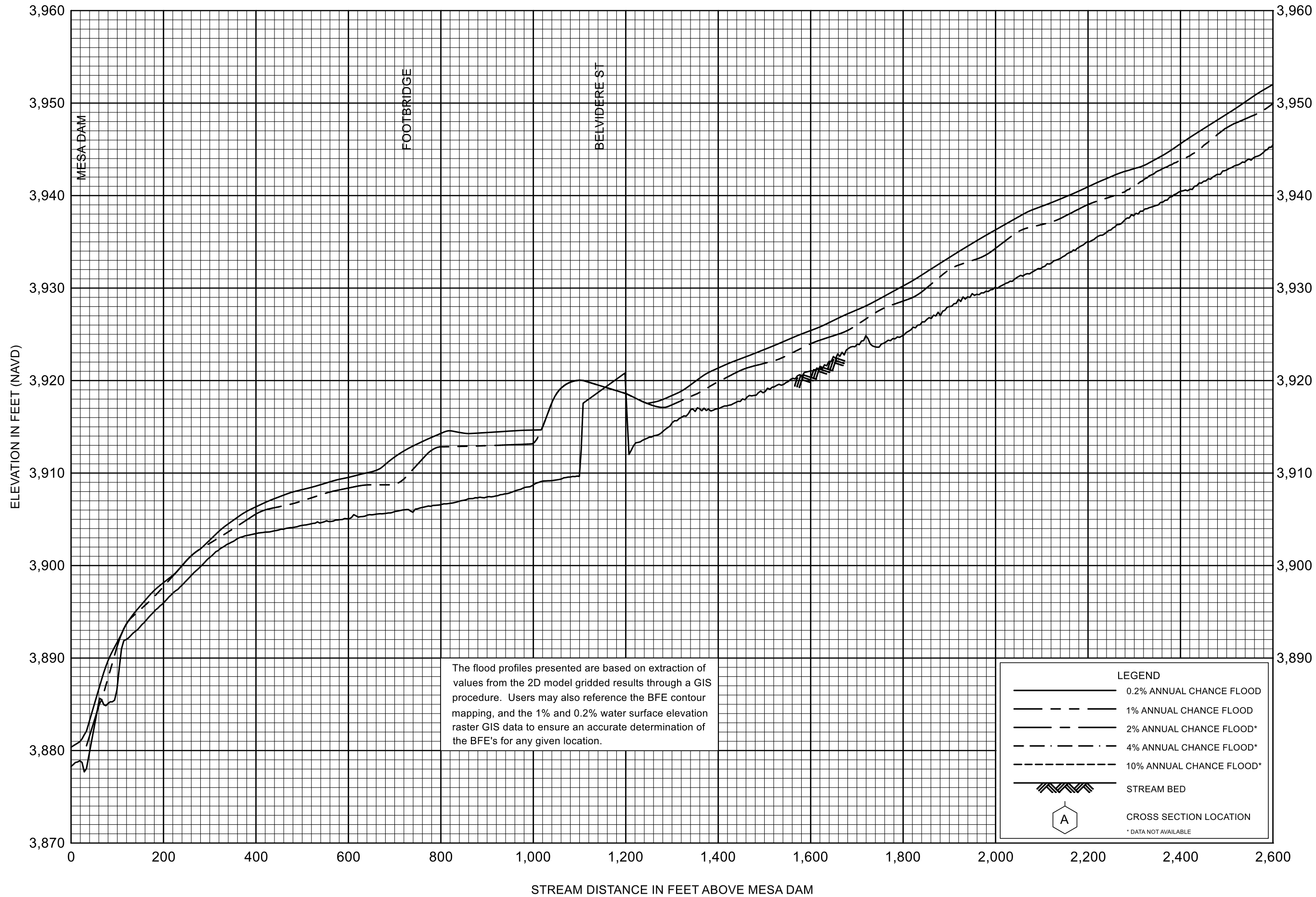


FLOOD PROFILES

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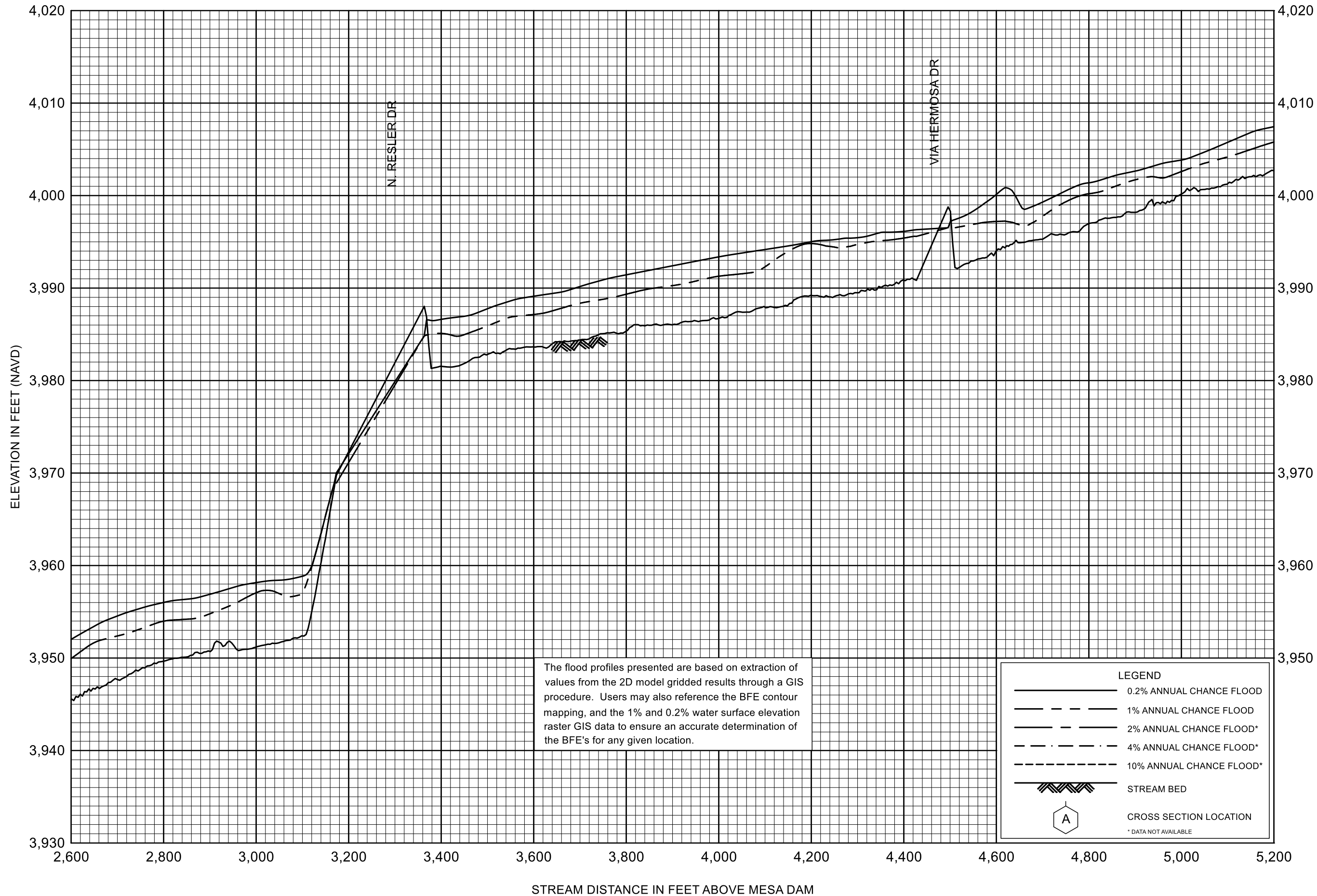


FLOOD PROFILES

ARROYO 3B (CHANNEL 1B BELVIDERE CHANNEL)

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EL PASO COUNTY, TX
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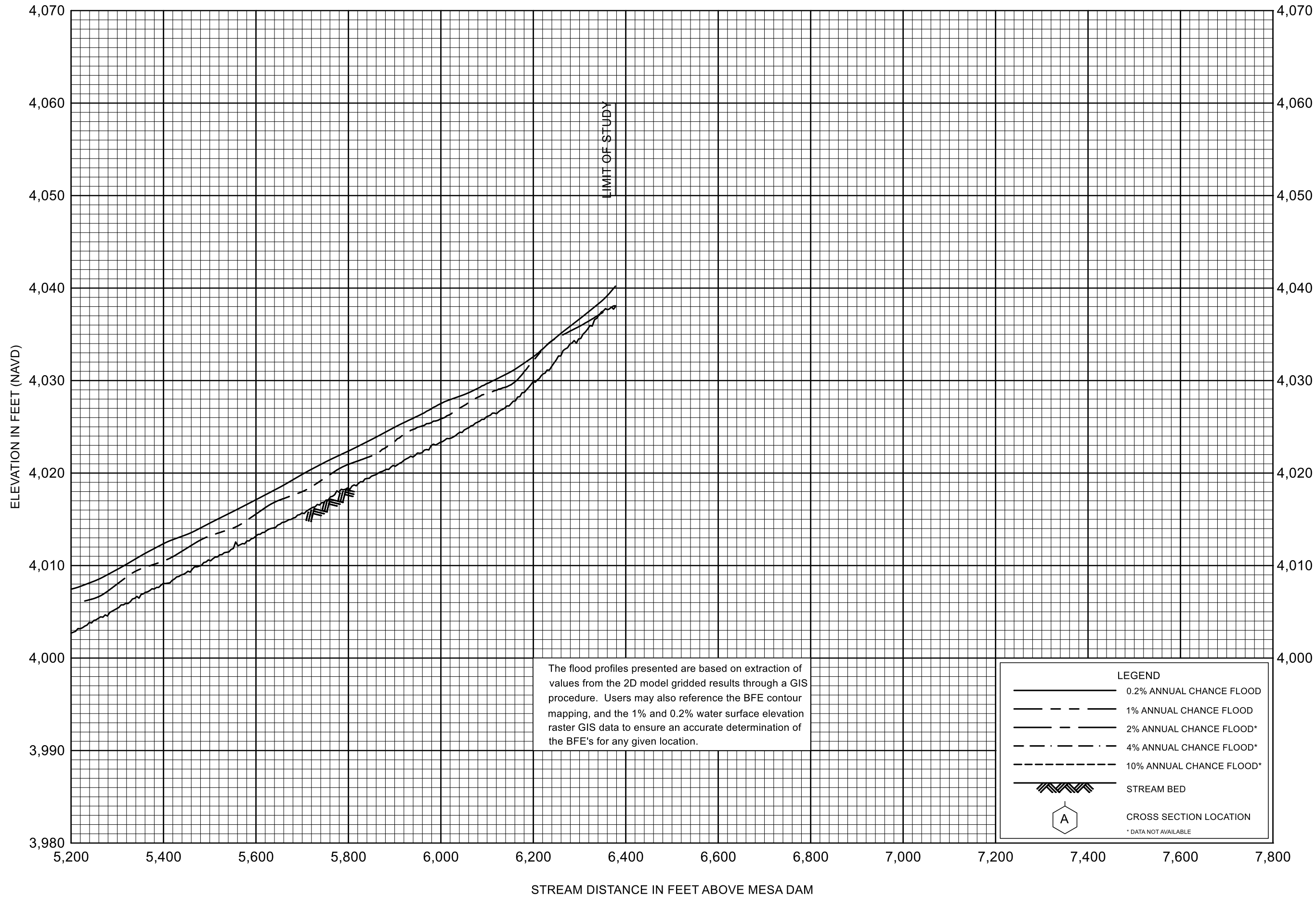


FLOOD PROFILES

ARROYO 3B (CHANNEL 1B BELVIDERE CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

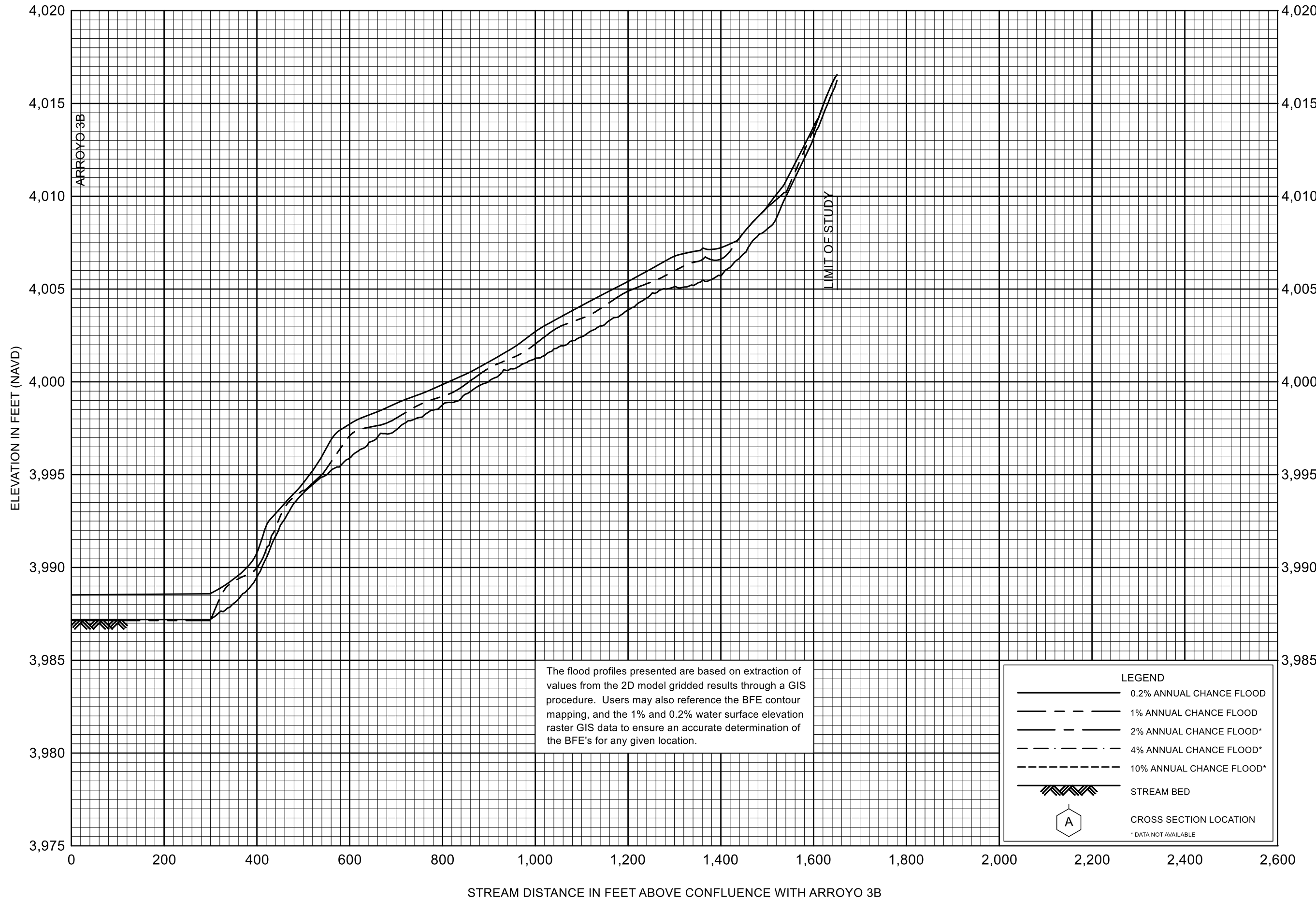


FLOOD PROFILES

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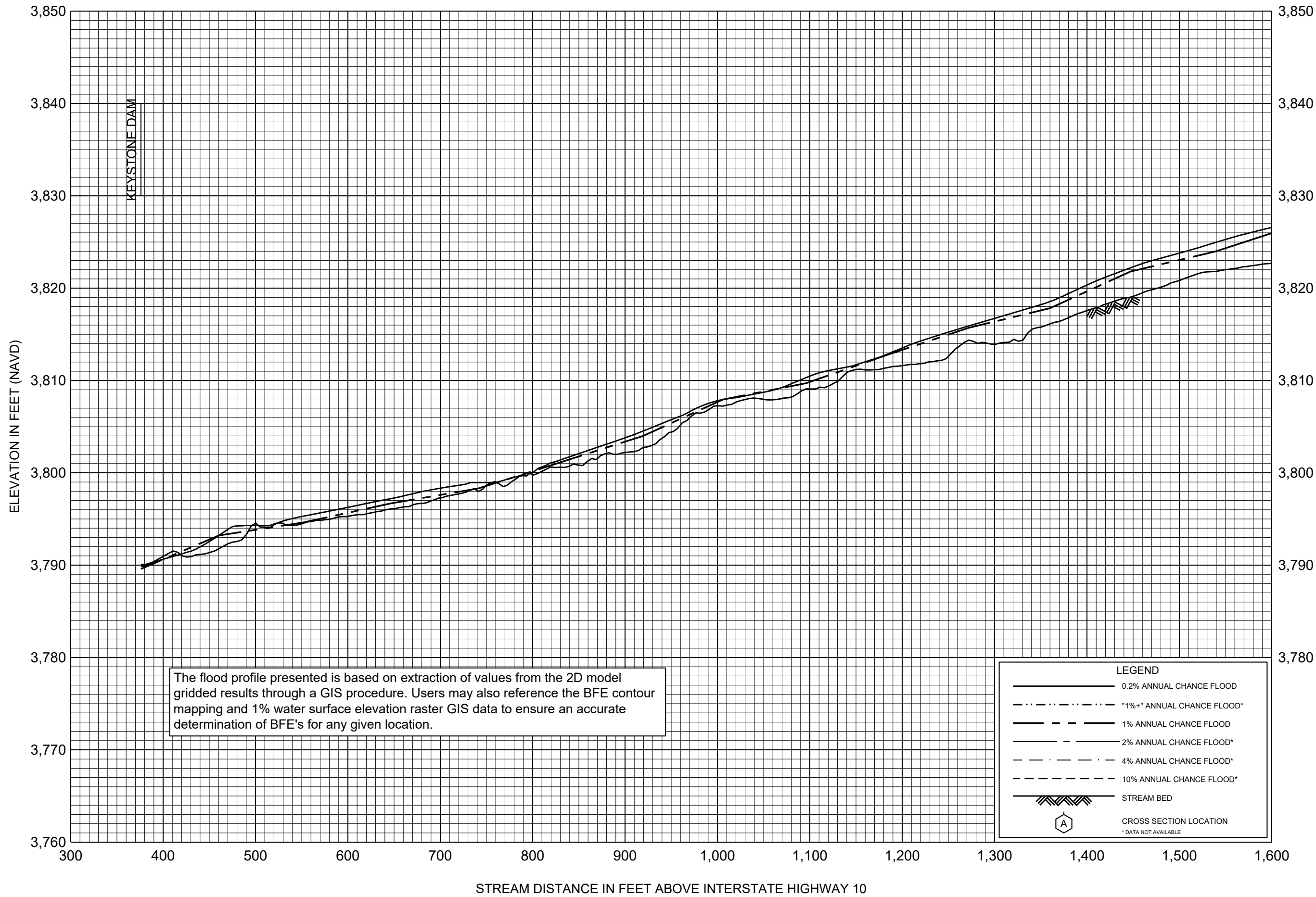


FLOOD PROFILES

ARROYO 3B TRIBUTARY 1

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

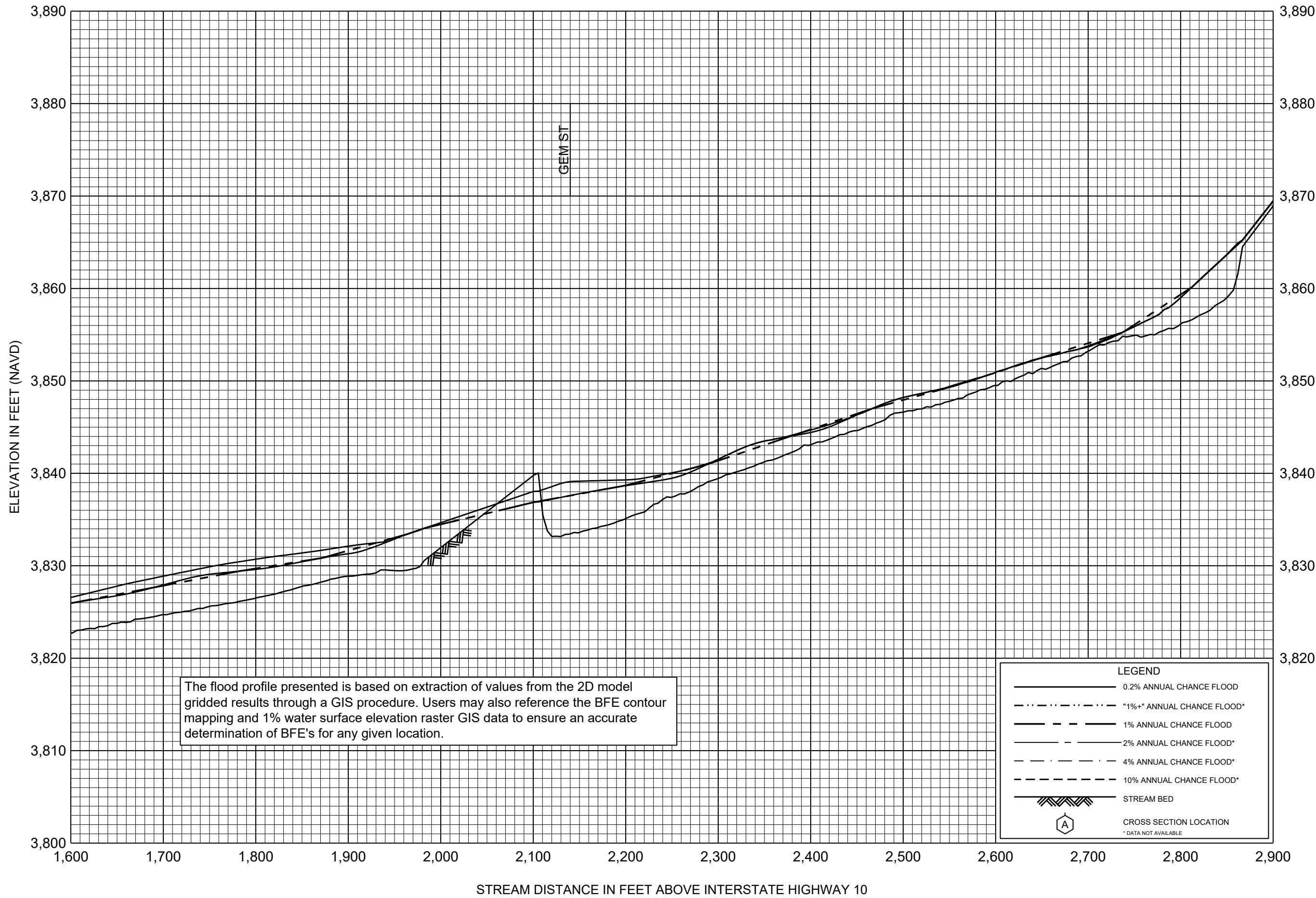


FLOOD PROFILES

ARROYO 4

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

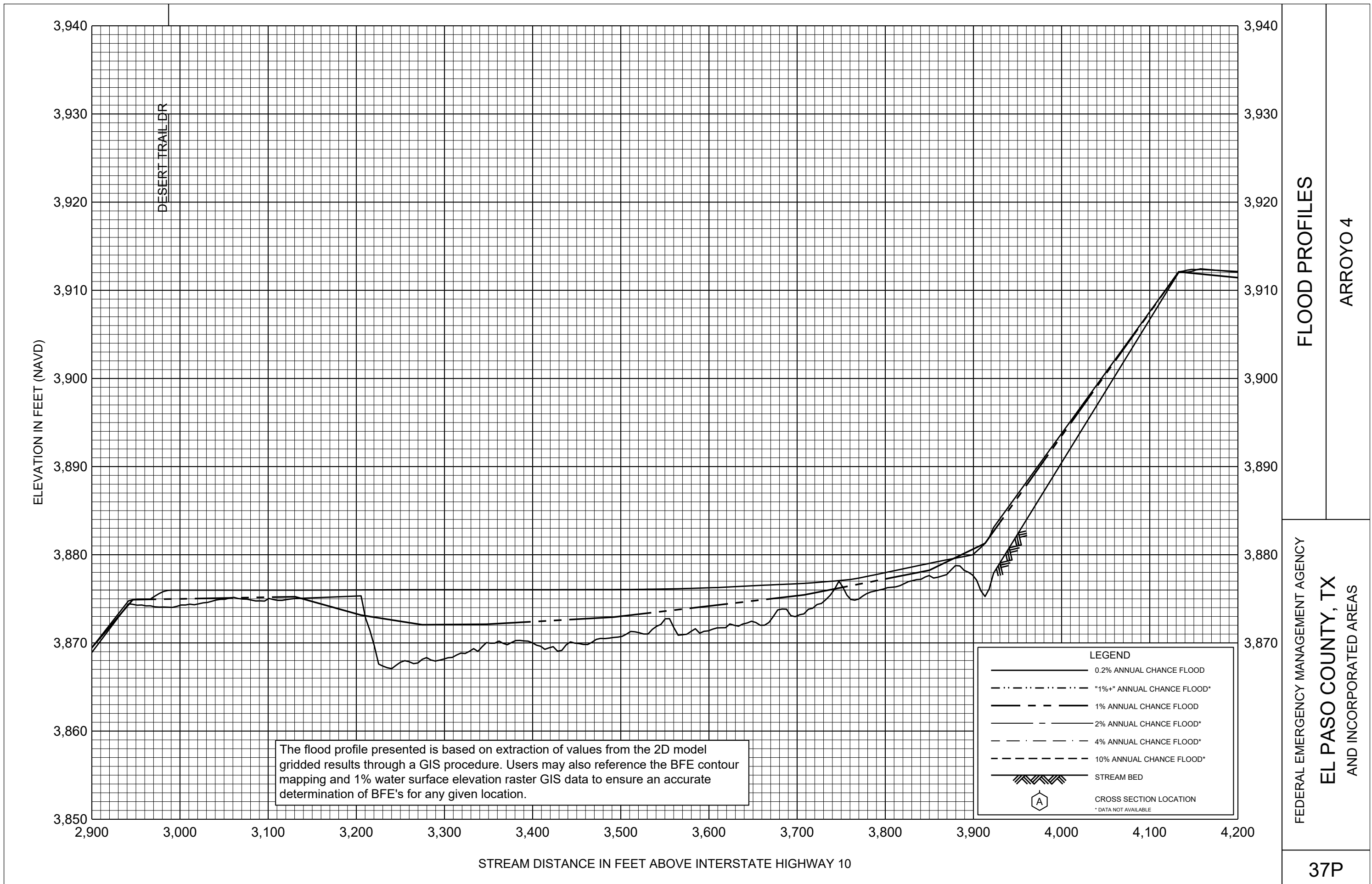


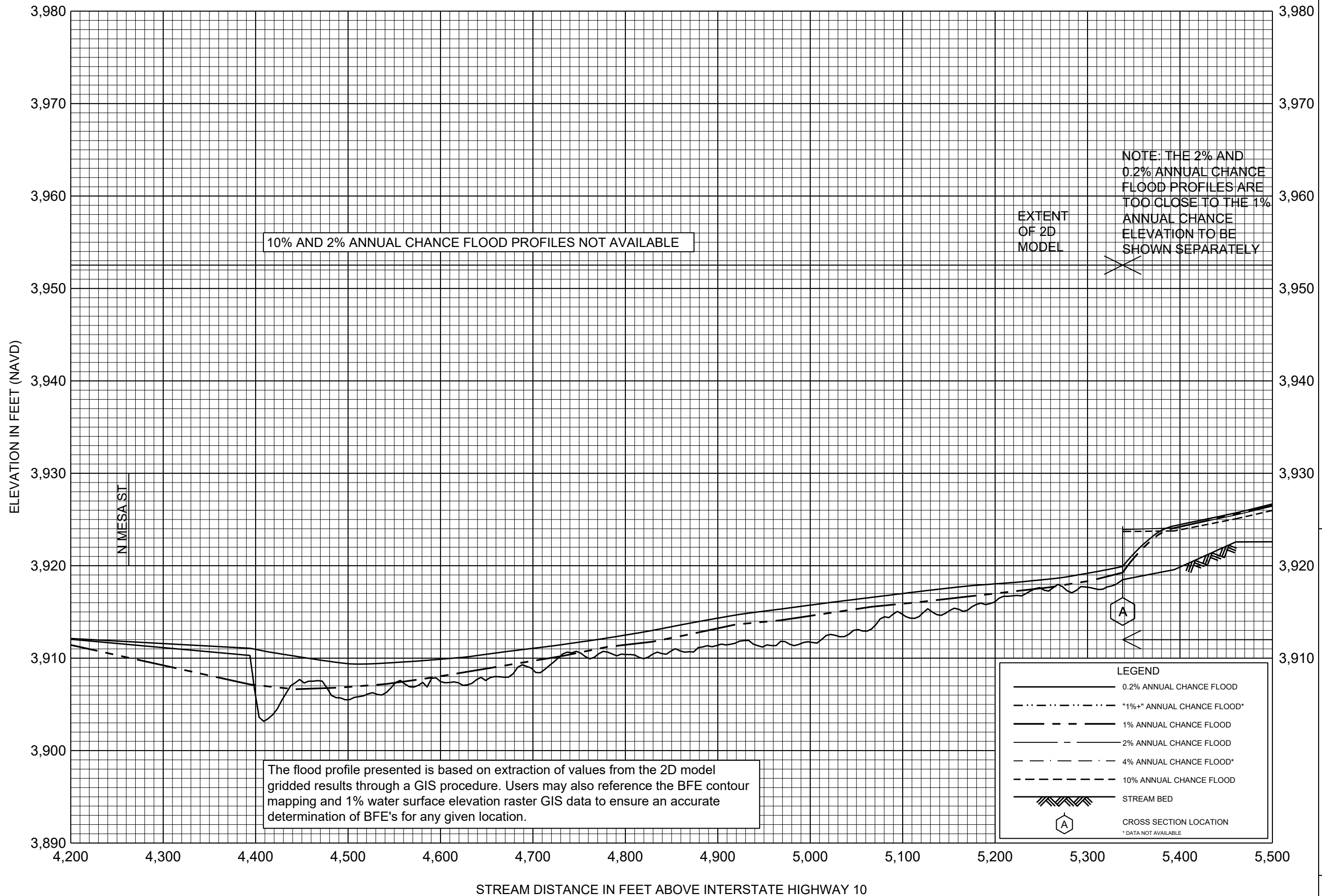
FLOOD PROFILES

ARROYO 4

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS





10% AND 2% ANNUAL CHANCE FLOOD PROFILES NOT AVAILABLE

The flood profile presented is based on extraction of values from the 2D model gridded results through a GIS procedure. Users may also reference the BFE contour mapping and 1% water surface elevation raster GIS data to ensure an accurate determination of BFE's for any given location.

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

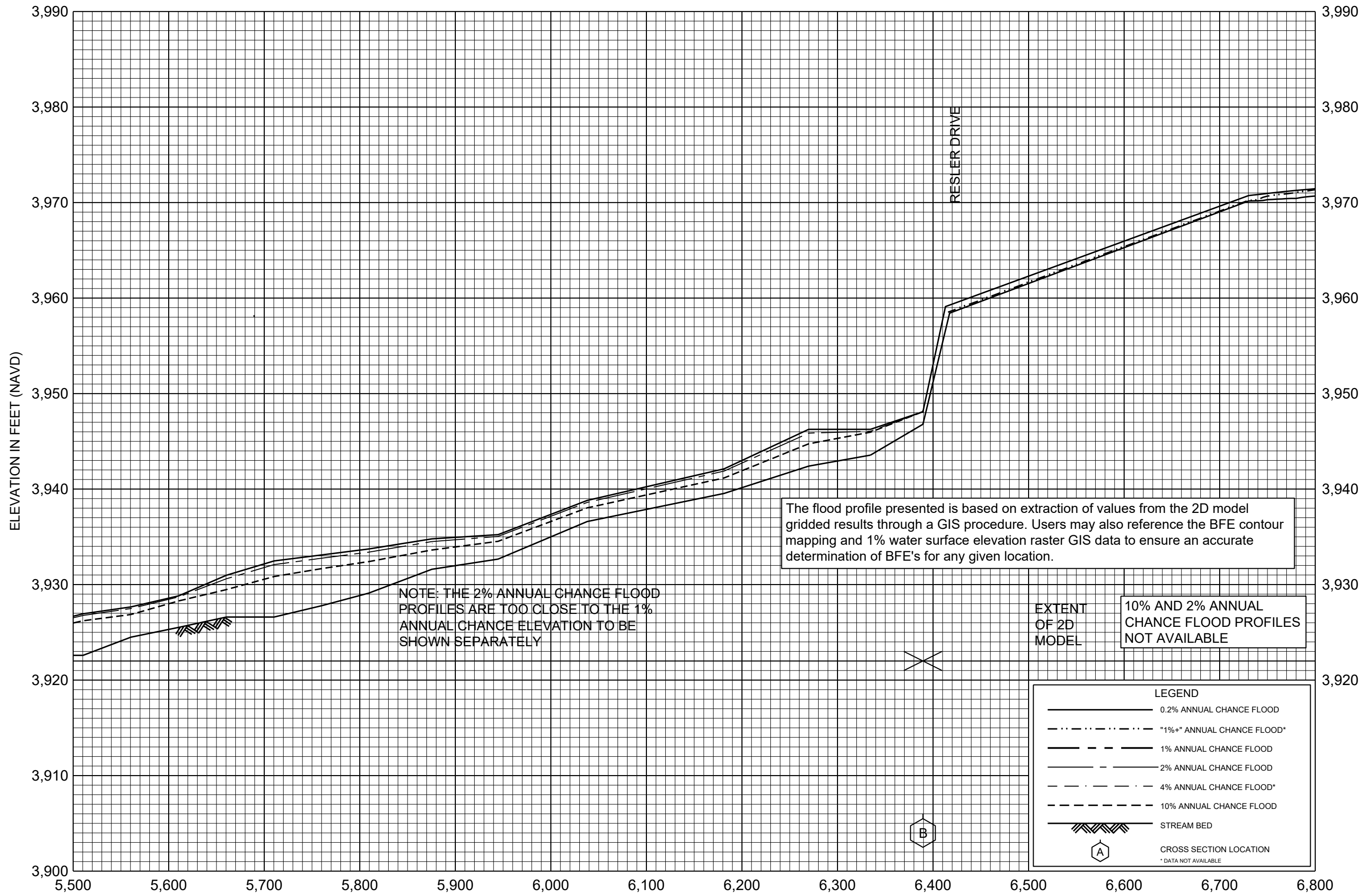
LEGEND

- 0.2% ANNUAL CHANCE FLOOD
- - - "1%+" ANNUAL CHANCE FLOOD*
- - - 1% ANNUAL CHANCE FLOOD
- - - 2% ANNUAL CHANCE FLOOD
- - - 4% ANNUAL CHANCE FLOOD*
- - - 10% ANNUAL CHANCE FLOOD
- - - STREAM BED
- ⬠ A CROSS SECTION LOCATION
- * DATA NOT AVAILABLE

FLOOD PROFILES

ARROYO 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
EL PASO COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES

ARROYO 4

FEDERAL EMERGENCY MANAGEMENT AGENCY

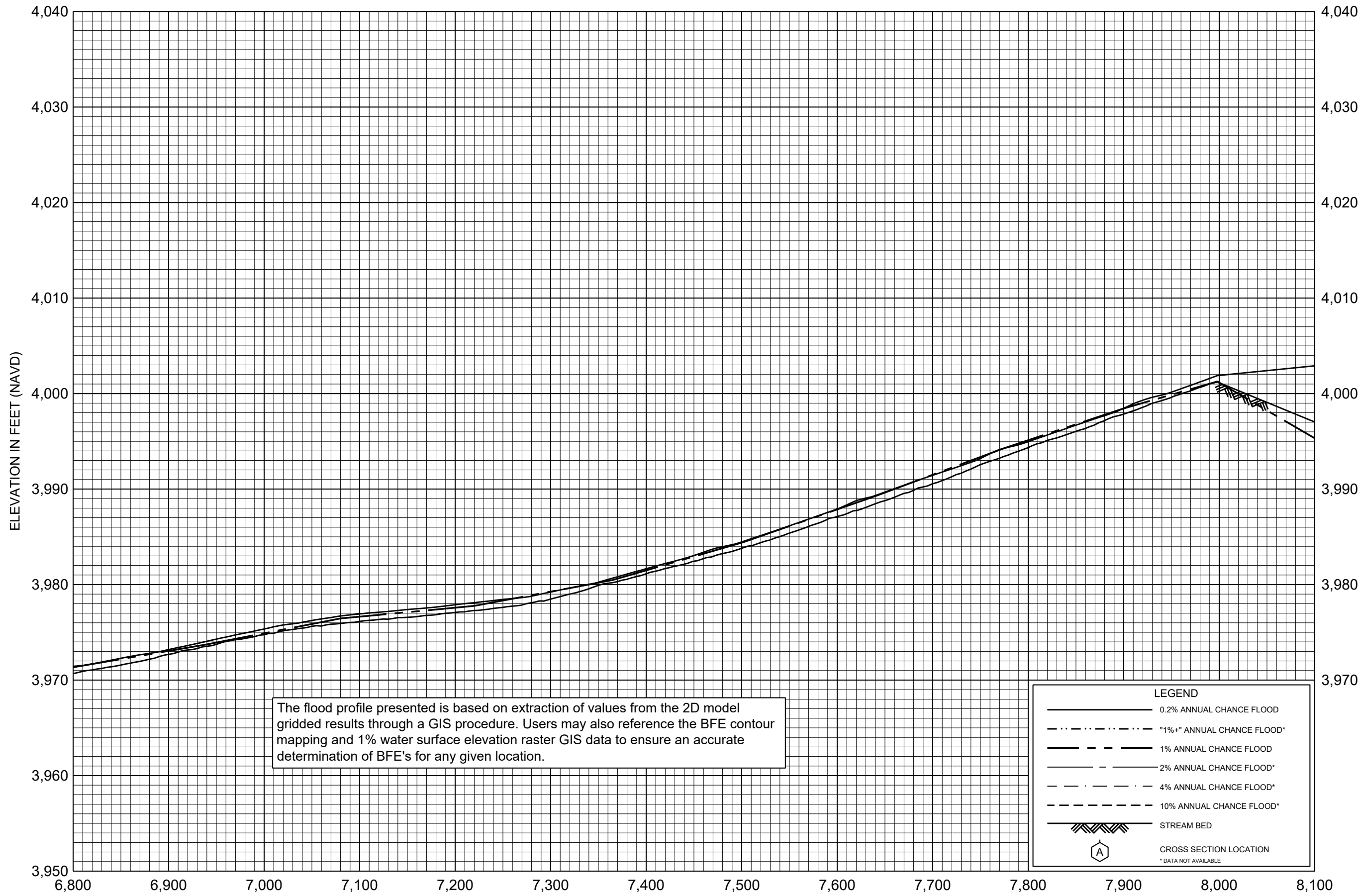
EL PASO COUNTY, TX
AND INCORPORATED AREAS

The flood profile presented is based on extraction of values from the 2D model gridded results through a GIS procedure. Users may also reference the BFE contour mapping and 1% water surface elevation raster GIS data to ensure an accurate determination of BFE's for any given location.

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

EXTENT OF 2D MODEL
10% AND 2% ANNUAL CHANGE FLOOD PROFILES NOT AVAILABLE

LEGEND	
	0.2% ANNUAL CHANGE FLOOD
	"1%+" ANNUAL CHANGE FLOOD*
	1% ANNUAL CHANGE FLOOD
	2% ANNUAL CHANGE FLOOD
	4% ANNUAL CHANGE FLOOD*
	10% ANNUAL CHANGE FLOOD
	STREAM BED
	CROSS SECTION LOCATION * DATA NOT AVAILABLE



The flood profile presented is based on extraction of values from the 2D model gridded results through a GIS procedure. Users may also reference the BFE contour mapping and 1% water surface elevation raster GIS data to ensure an accurate determination of BFE's for any given location.

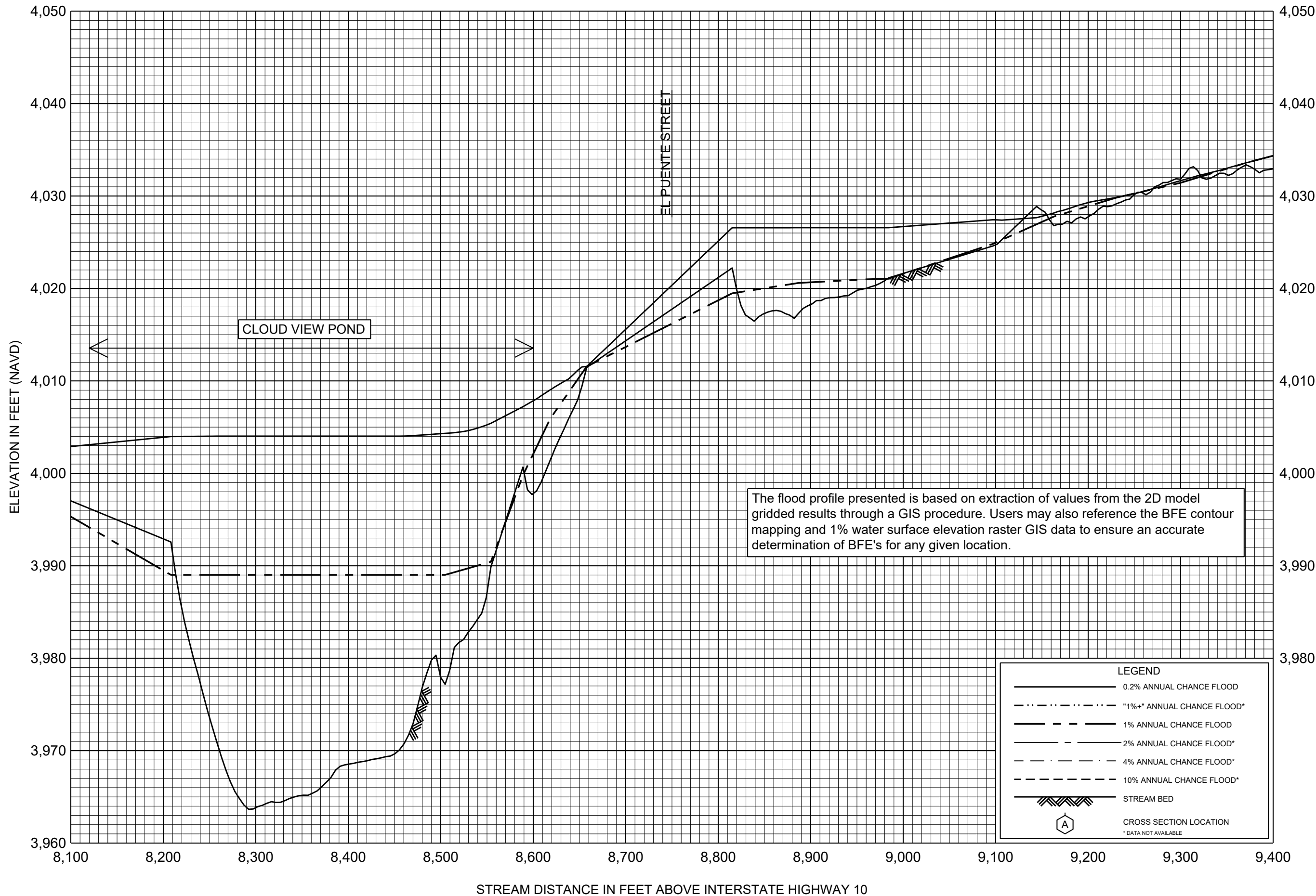
LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	"1%+" ANNUAL CHANCE FLOOD*
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD*
	4% ANNUAL CHANCE FLOOD*
	10% ANNUAL CHANCE FLOOD*
	STREAM BED
	CROSS SECTION LOCATION
<small>* DATA NOT AVAILABLE</small>	

FLOOD PROFILES

ARROYO 4

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

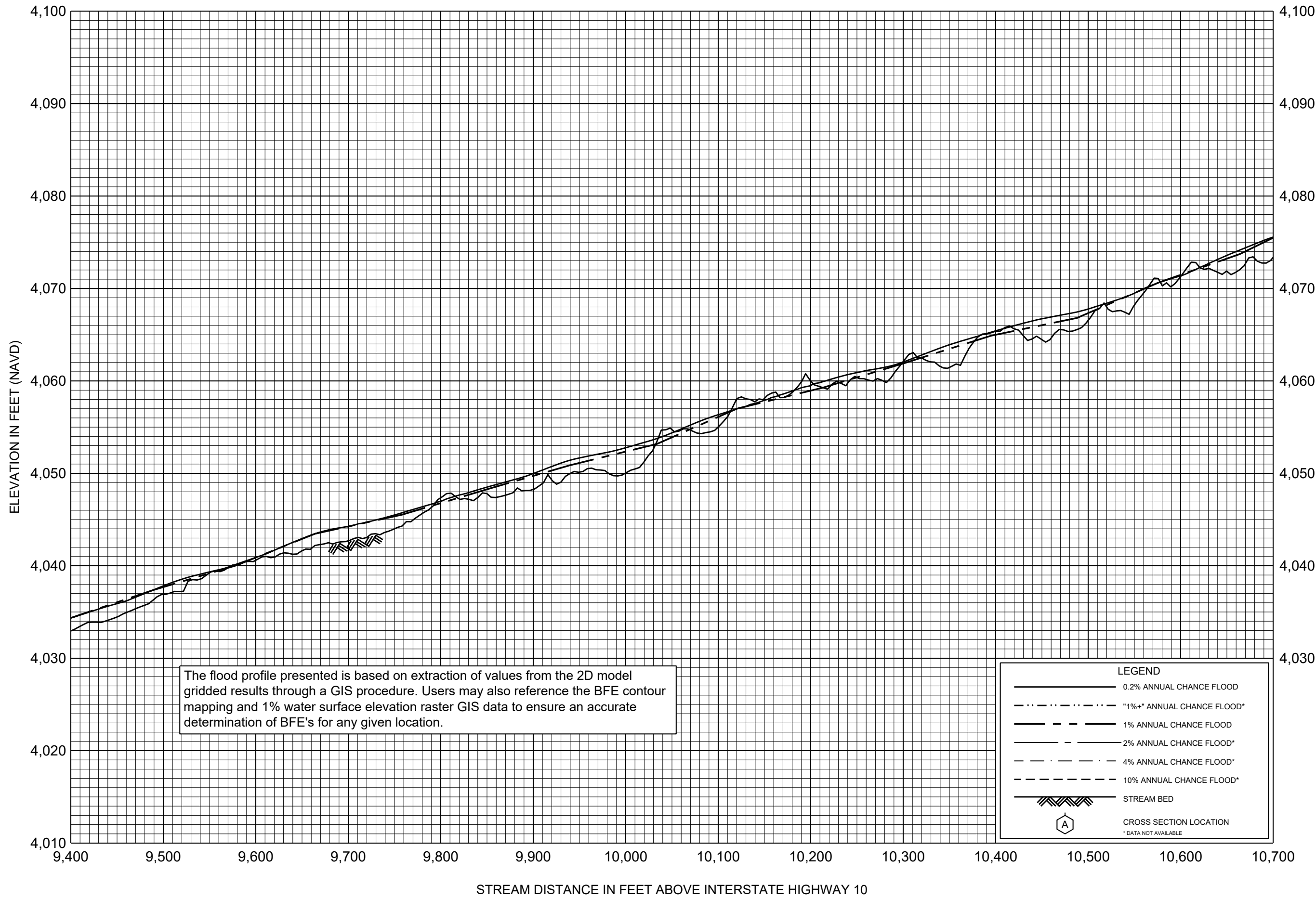


FLOOD PROFILES
ARROYO 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
EL PASO COUNTY, TX
AND INCORPORATED AREAS

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LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	"1%+" ANNUAL CHANCE FLOOD*
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD*
	4% ANNUAL CHANCE FLOOD*
	10% ANNUAL CHANCE FLOOD*
	STREAM BED
	CROSS SECTION LOCATION
* DATA NOT AVAILABLE	

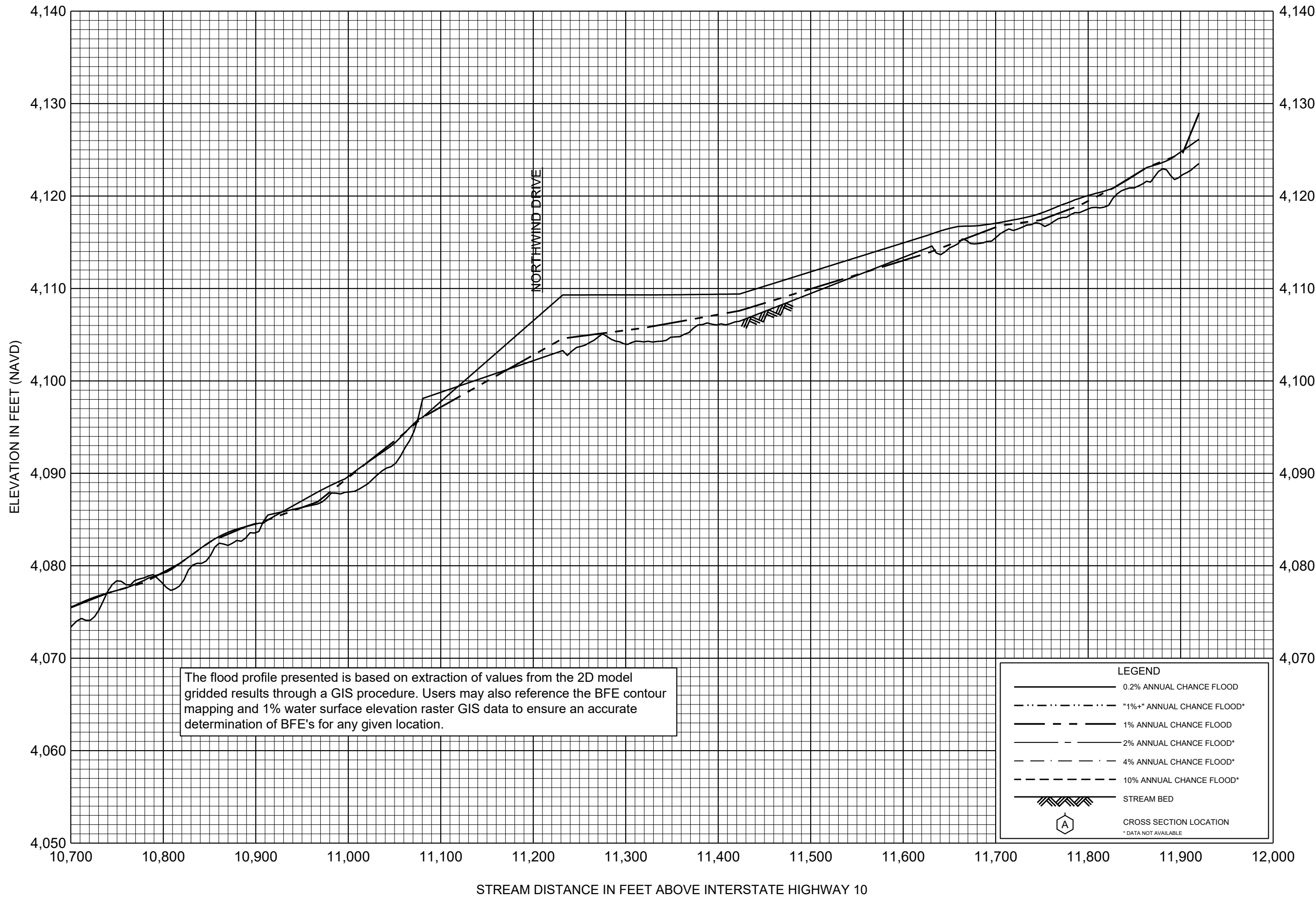


The flood profile presented is based on extraction of values from the 2D model gridded results through a GIS procedure. Users may also reference the BFE contour mapping and 1% water surface elevation raster GIS data to ensure an accurate determination of BFE's for any given location.

LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	"1%+" ANNUAL CHANCE FLOOD*
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD*
	4% ANNUAL CHANCE FLOOD*
	10% ANNUAL CHANCE FLOOD*
	STREAM BED
	CROSS SECTION LOCATION
	* DATA NOT AVAILABLE

FLOOD PROFILES
ARROYO 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
EL PASO COUNTY, TX
AND INCORPORATED AREAS



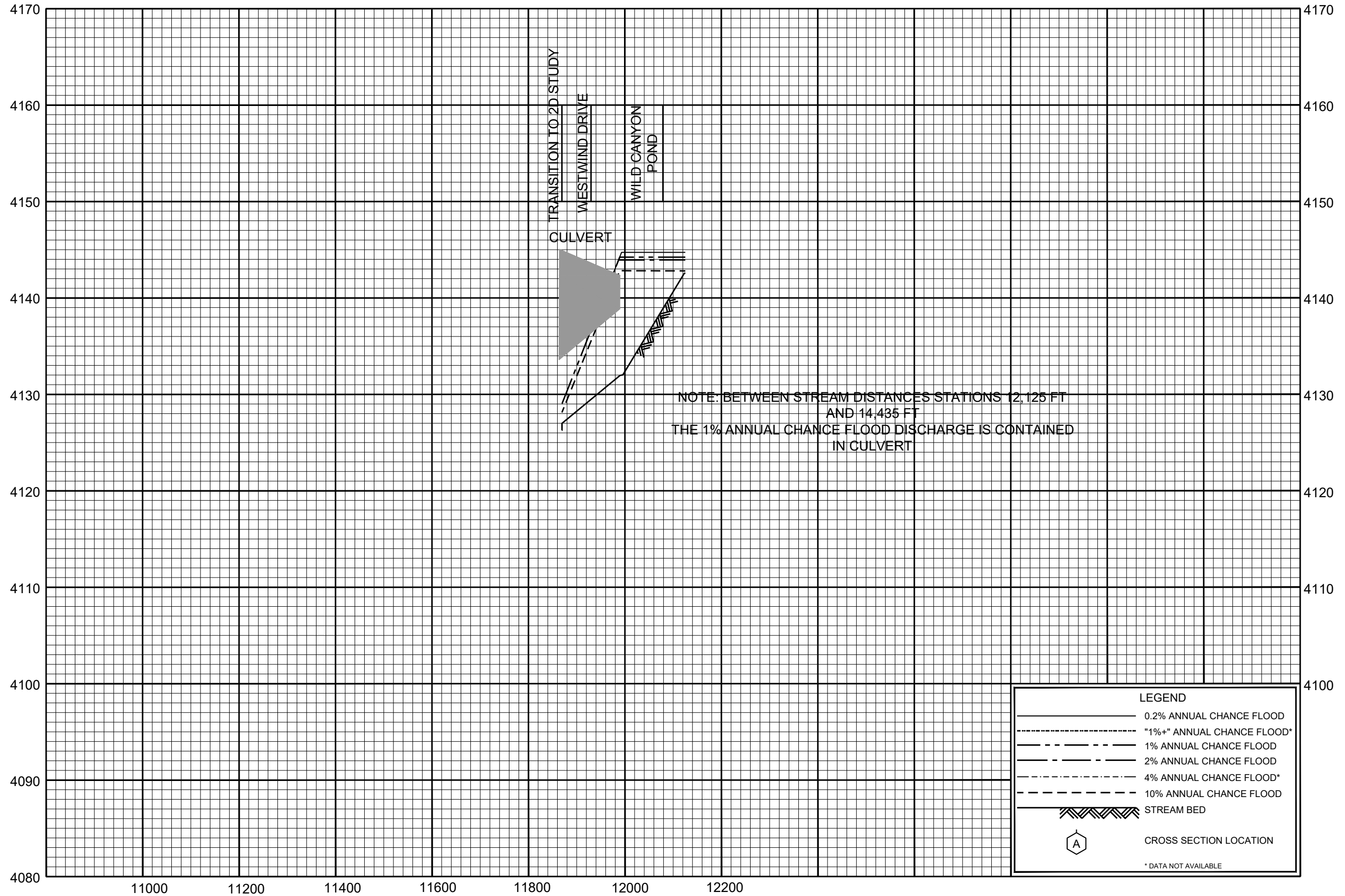
The flood profile presented is based on extraction of values from the 2D model gridded results through a GIS procedure. Users may also reference the BFE contour mapping and 1% water surface elevation raster GIS data to ensure an accurate determination of BFE's for any given location.

LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	"1%+" ANNUAL CHANCE FLOOD*
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD*
	4% ANNUAL CHANCE FLOOD*
	10% ANNUAL CHANCE FLOOD*
	STREAM BED
	CROSS SECTION LOCATION
	* DATA NOT AVAILABLE

FLOOD PROFILES
ARROYO 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
EL PASO COUNTY, TX
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



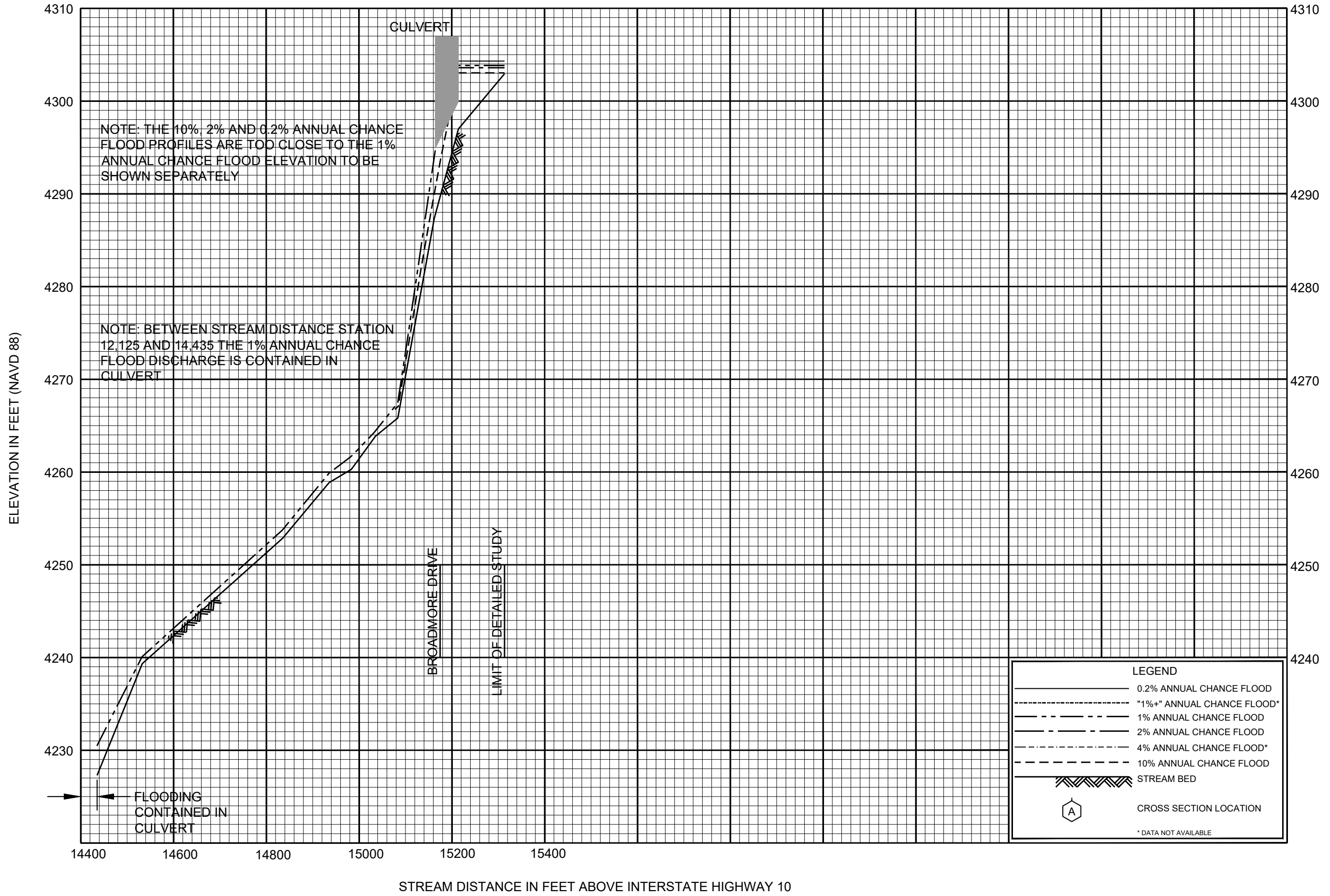
STREAM DISTANCE IN FEET ABOVE INTERSTATE HIGHWAY 10

FLOOD PROFILES

ARROYO 4

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

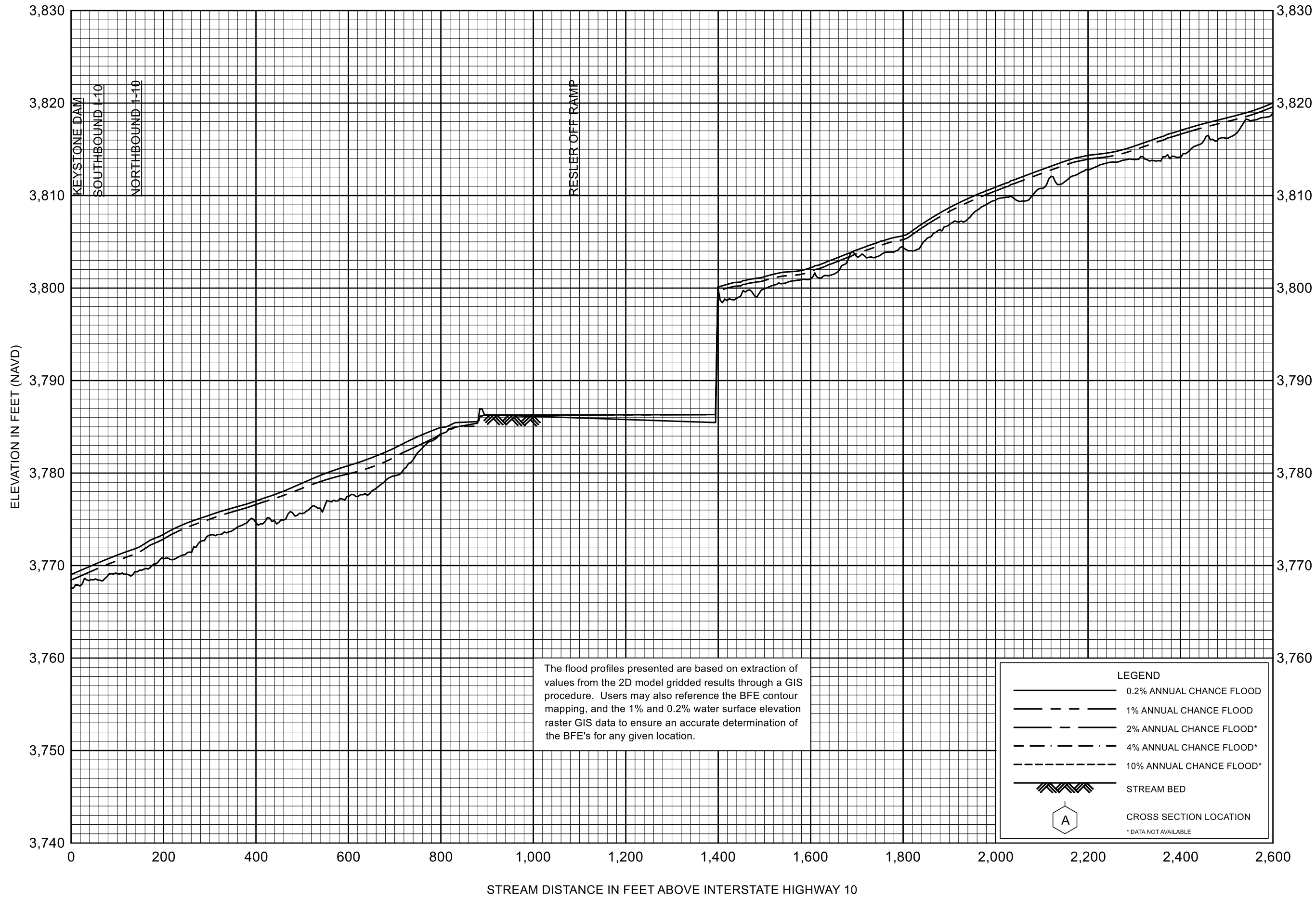


FLOOD PROFILES

ARROYO 4

FEDERAL EMERGENCY MANAGEMENT AGENCY

**EL PASO COUNTY, TX
AND INCORPORATED AREAS**

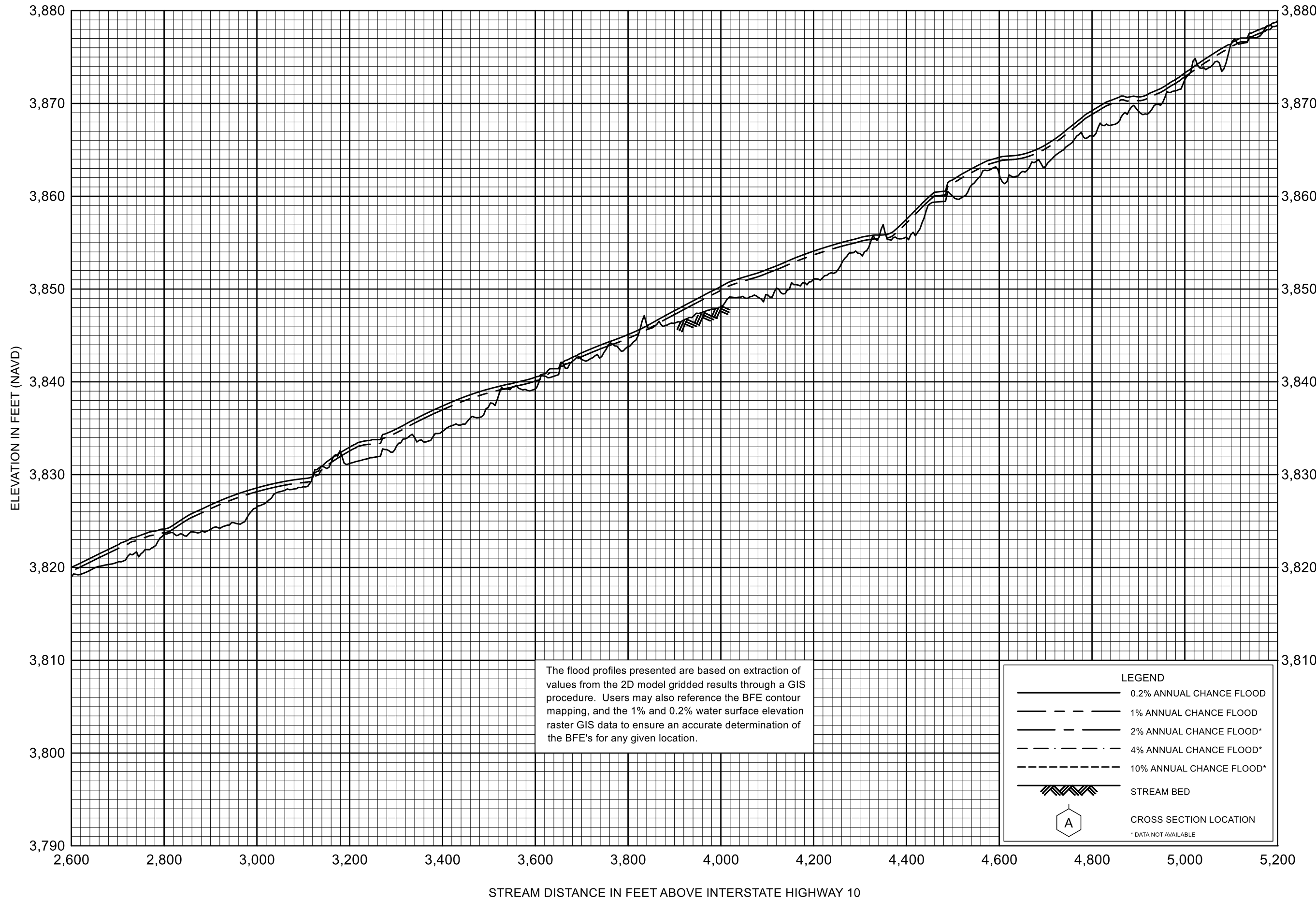


FLOOD PROFILES

ARROYO 5

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

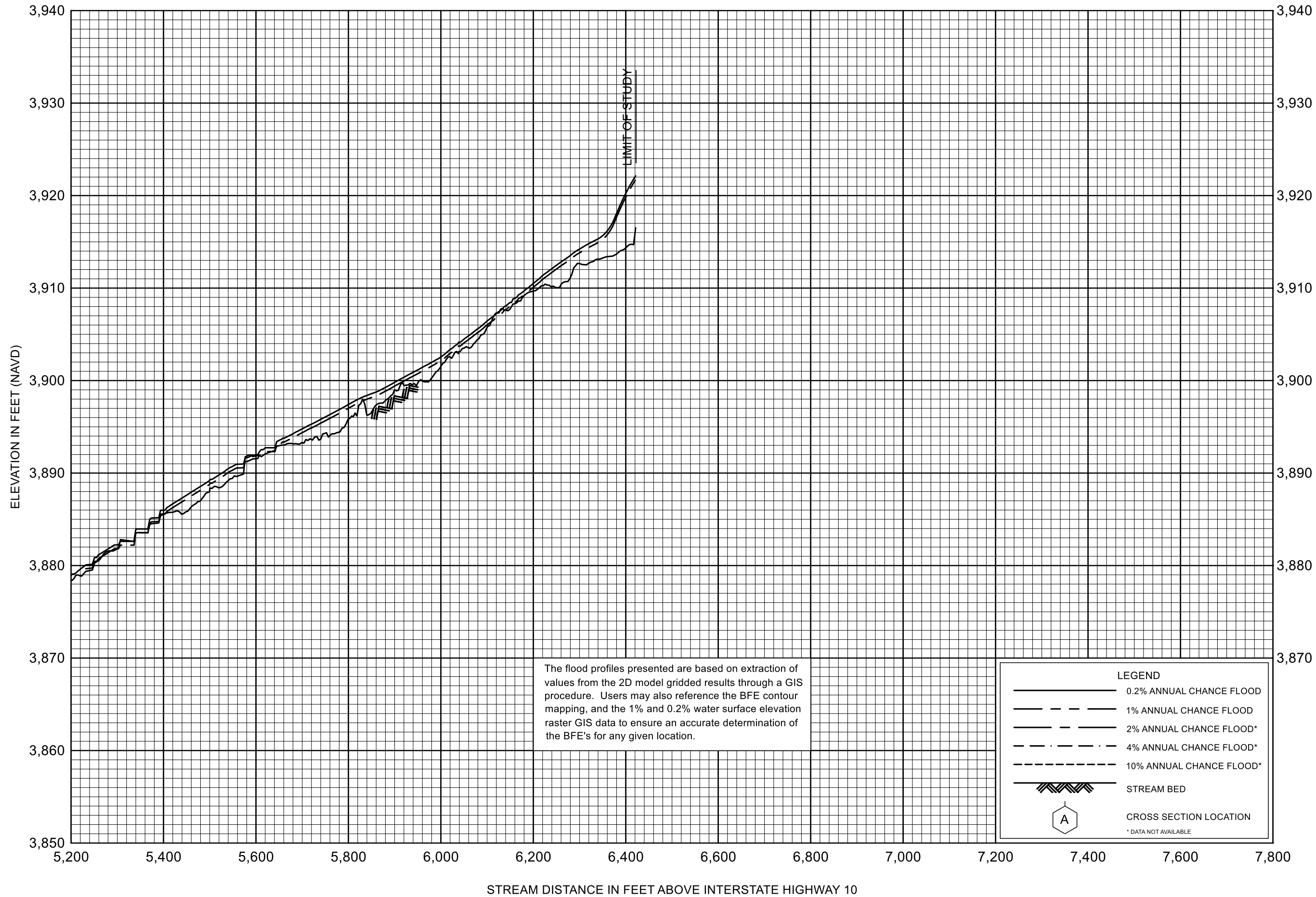


FLOOD PROFILES

ARROYO 5

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

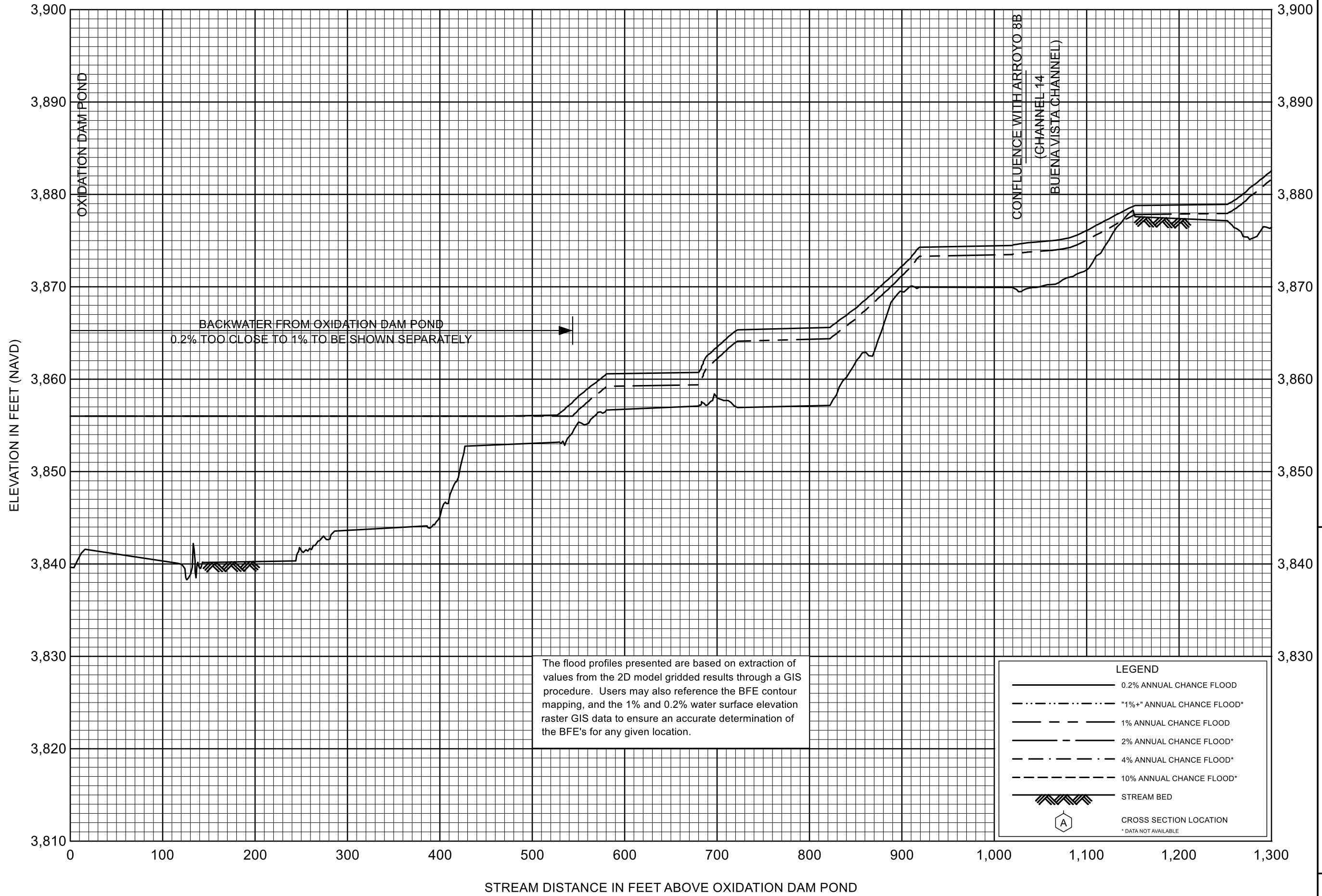


FLOOD PROFILES

ARROYO 5

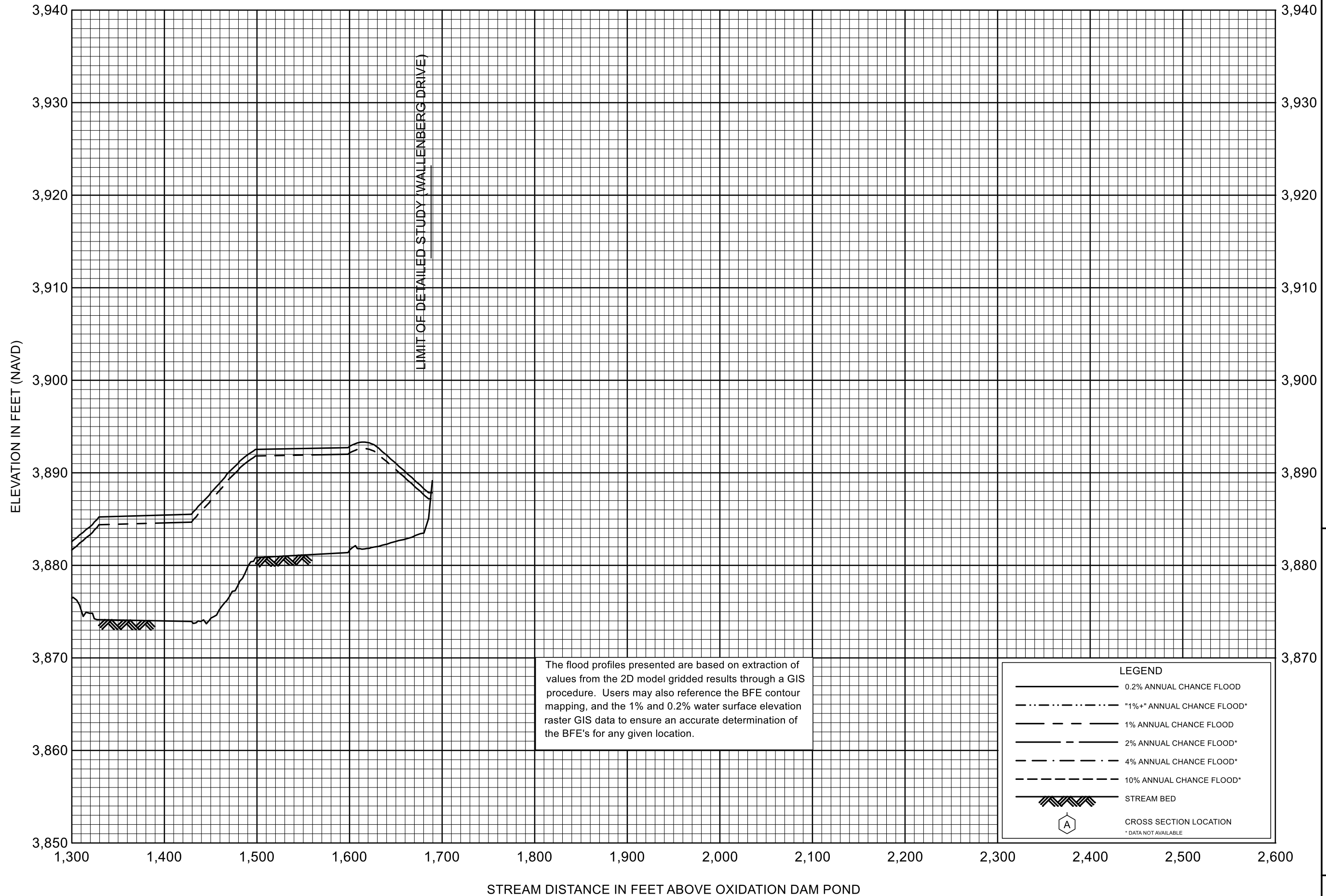
FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



The flood profiles presented are based on extraction of values from the 2D model gridded results through a GIS procedure. Users may also reference the BFE contour mapping, and the 1% and 0.2% water surface elevation raster GIS data to ensure an accurate determination of the BFE's for any given location.

LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	"1%+" ANNUAL CHANCE FLOOD*
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD*
	4% ANNUAL CHANCE FLOOD*
	10% ANNUAL CHANCE FLOOD*
	STREAM BED
	CROSS SECTION LOCATION
* DATA NOT AVAILABLE	



The flood profiles presented are based on extraction of values from the 2D model gridded results through a GIS procedure. Users may also reference the BFE contour mapping, and the 1% and 0.2% water surface elevation raster GIS data to ensure an accurate determination of the BFE's for any given location.

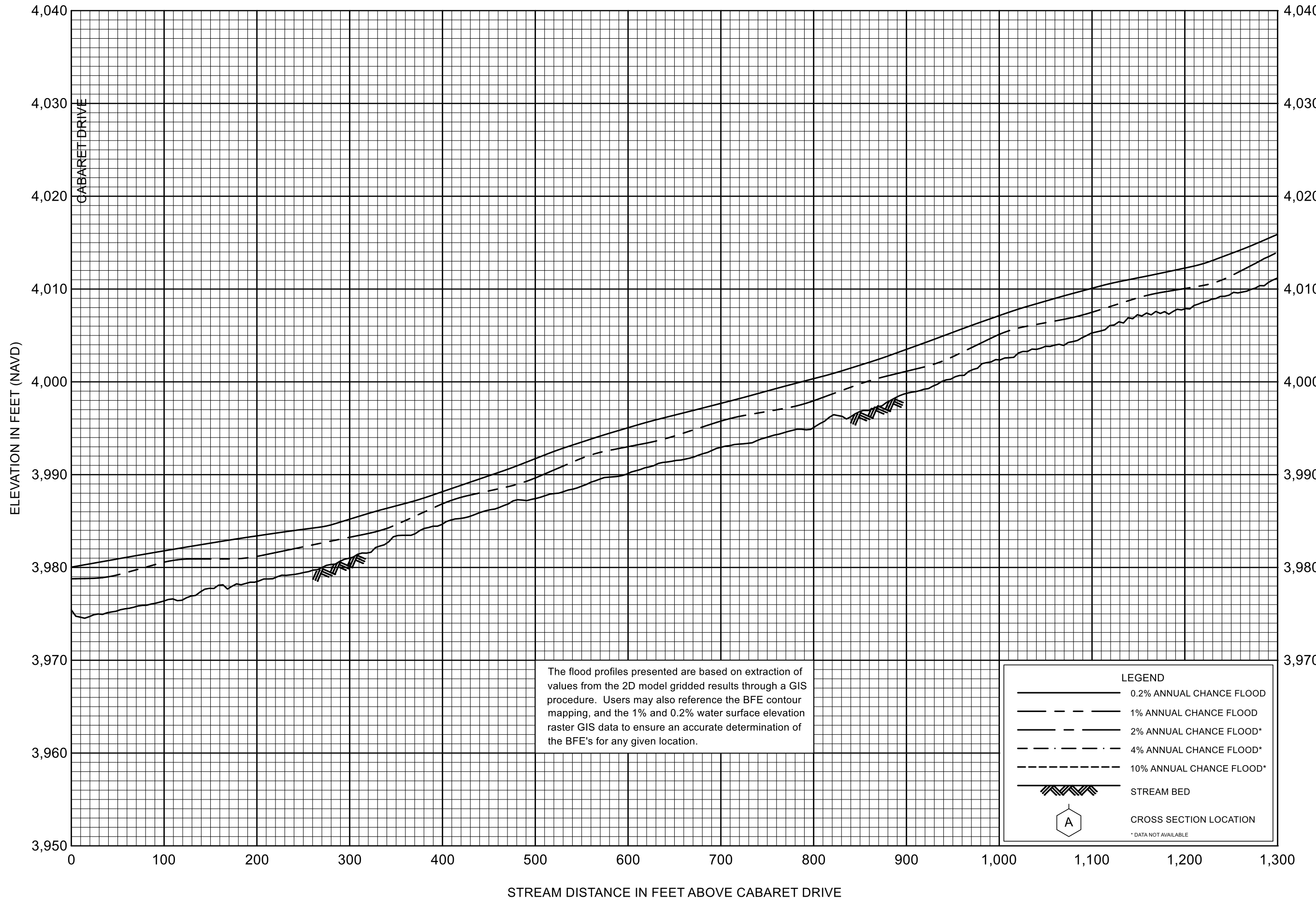
LEGEND

- 0.2% ANNUAL CHANCE FLOOD
- · - · - · "1%+" ANNUAL CHANCE FLOOD*
- - - 1% ANNUAL CHANCE FLOOD
- · - · - 2% ANNUAL CHANCE FLOOD*
- · - · - 4% ANNUAL CHANCE FLOOD*
- - - 10% ANNUAL CHANCE FLOOD*
- ▨ STREAM BED
- ⬡ A CROSS SECTION LOCATION
- * DATA NOT AVAILABLE

FLOOD PROFILES

ARROYO 8

FEDERAL EMERGENCY MANAGEMENT AGENCY
EL PASO COUNTY, TX
 AND INCORPORATED AREAS

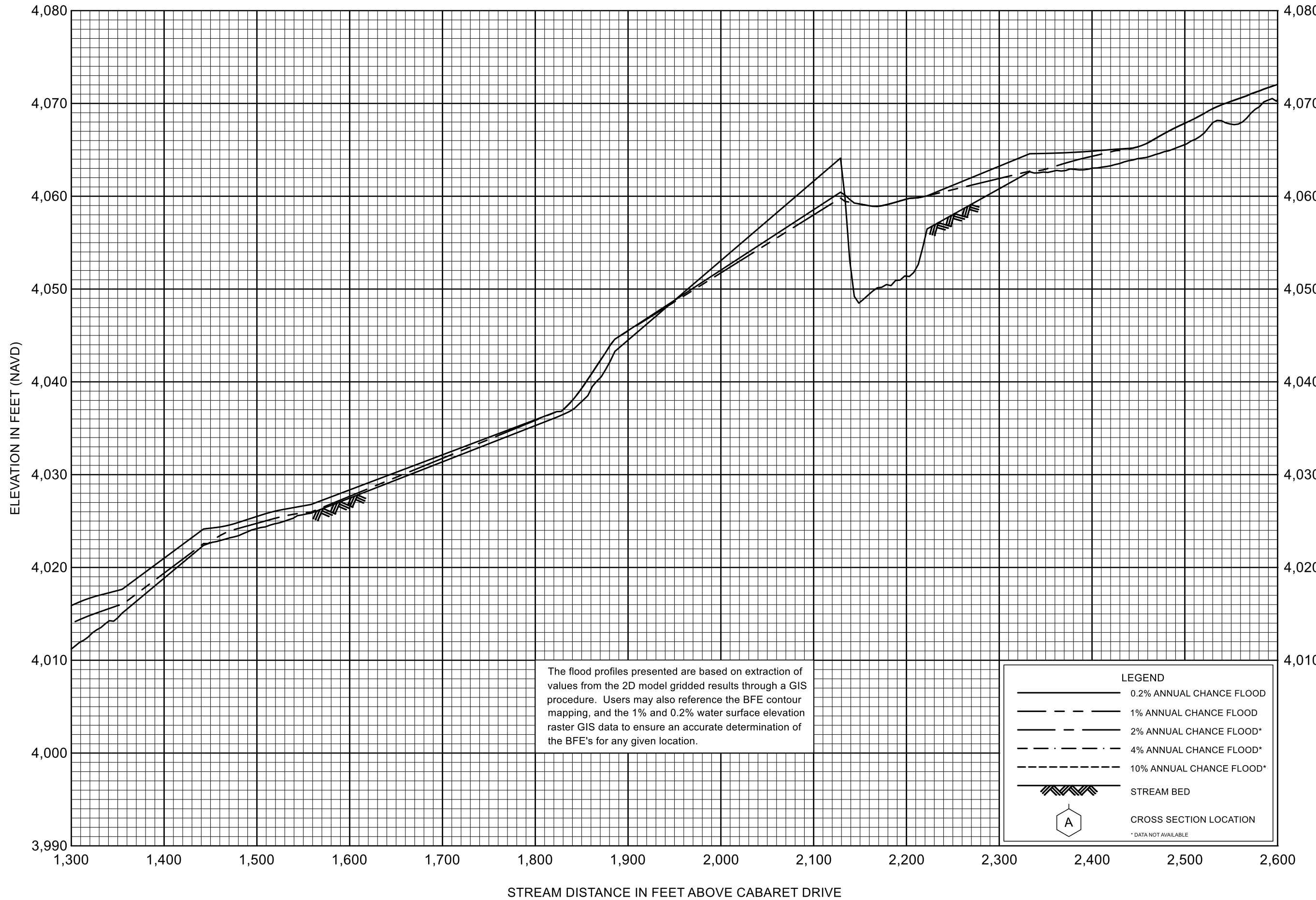


FLOOD PROFILES

ARROYO 8 (CHANNEL 15 MESA HILLS CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

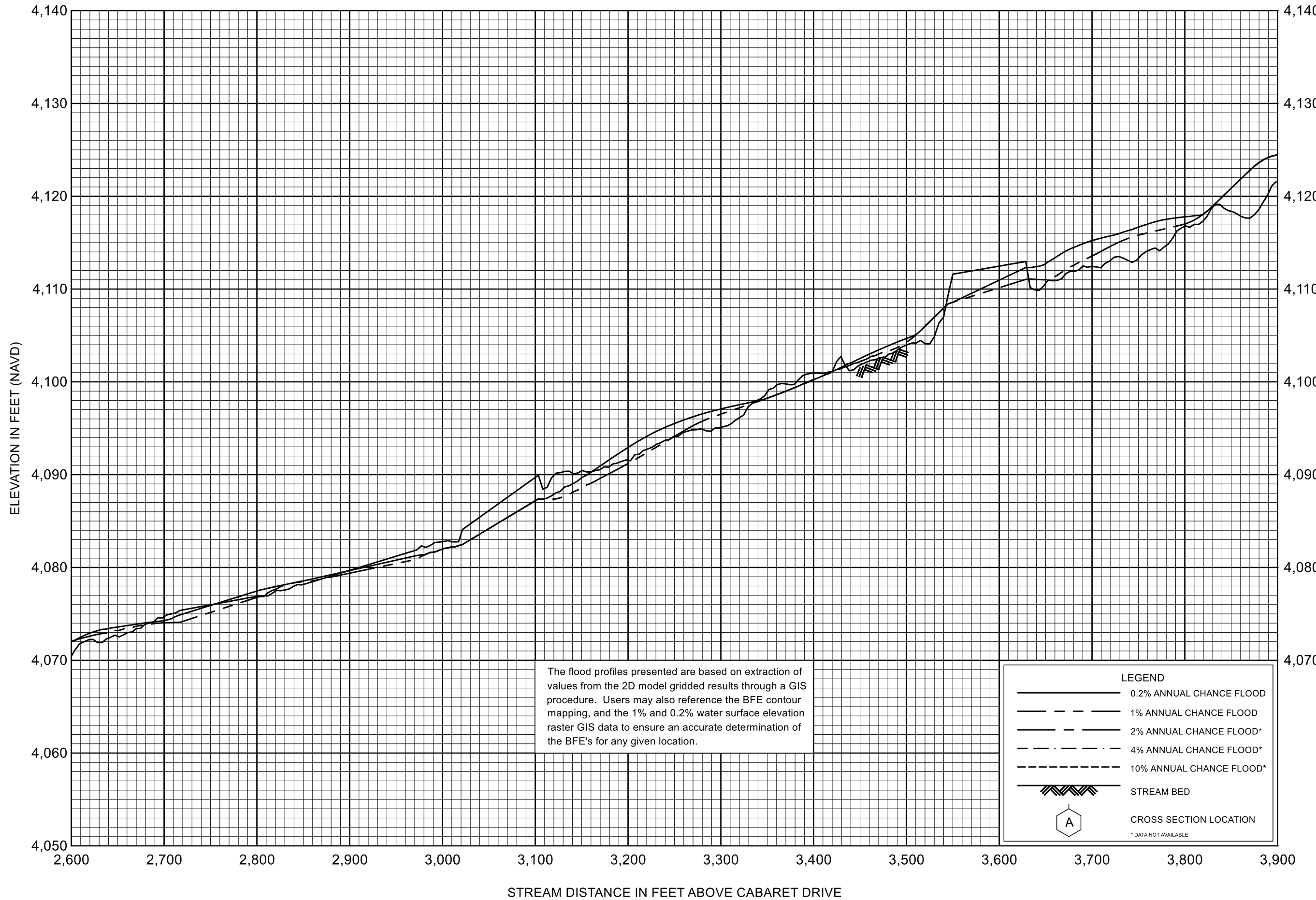


FLOOD PROFILES

ARROYO 8 (CHANNEL 15 MESA HILLS CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

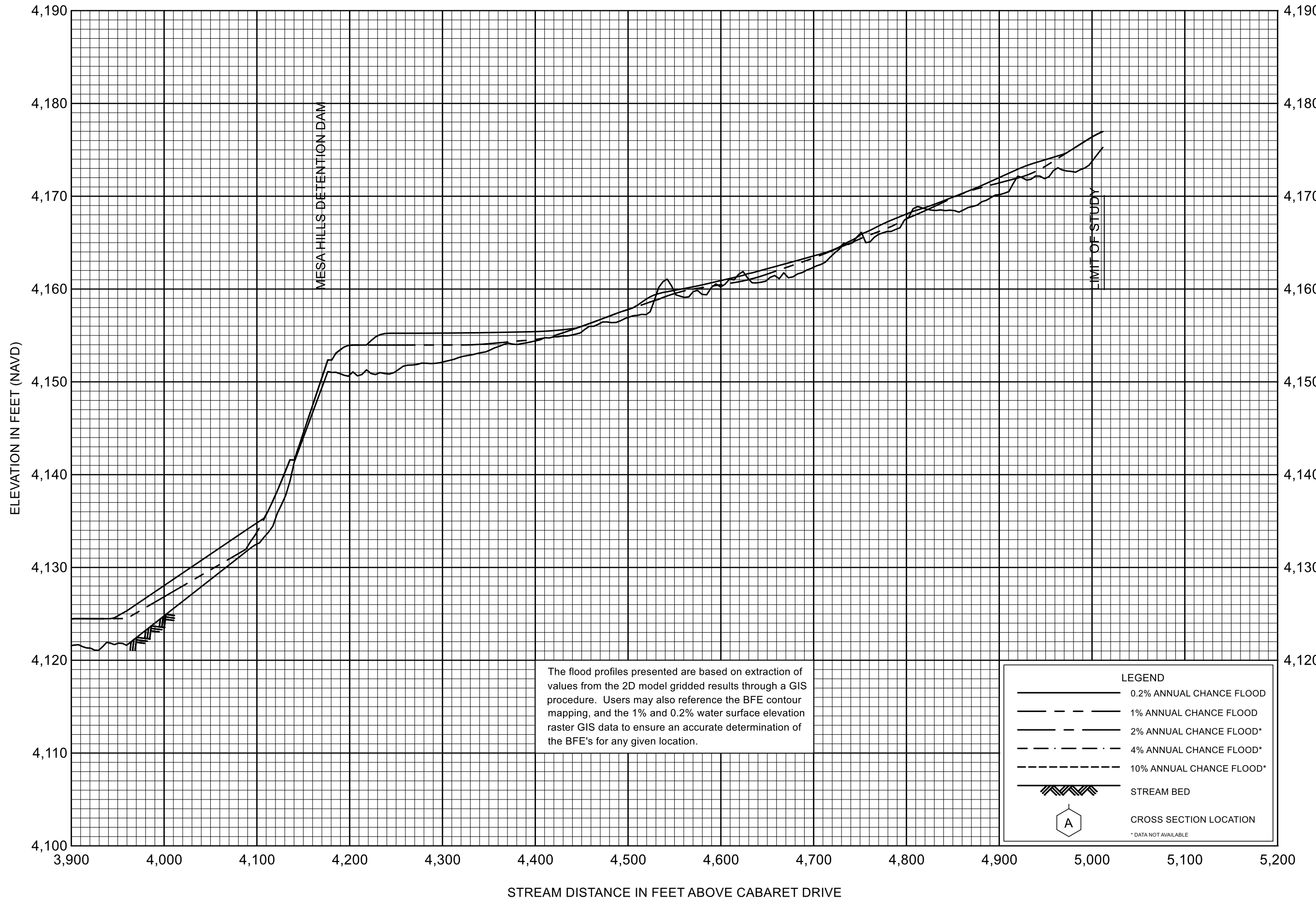


FLOOD PROFILES

ARROYO 8 (CHANNEL 15 MESA HILLS CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

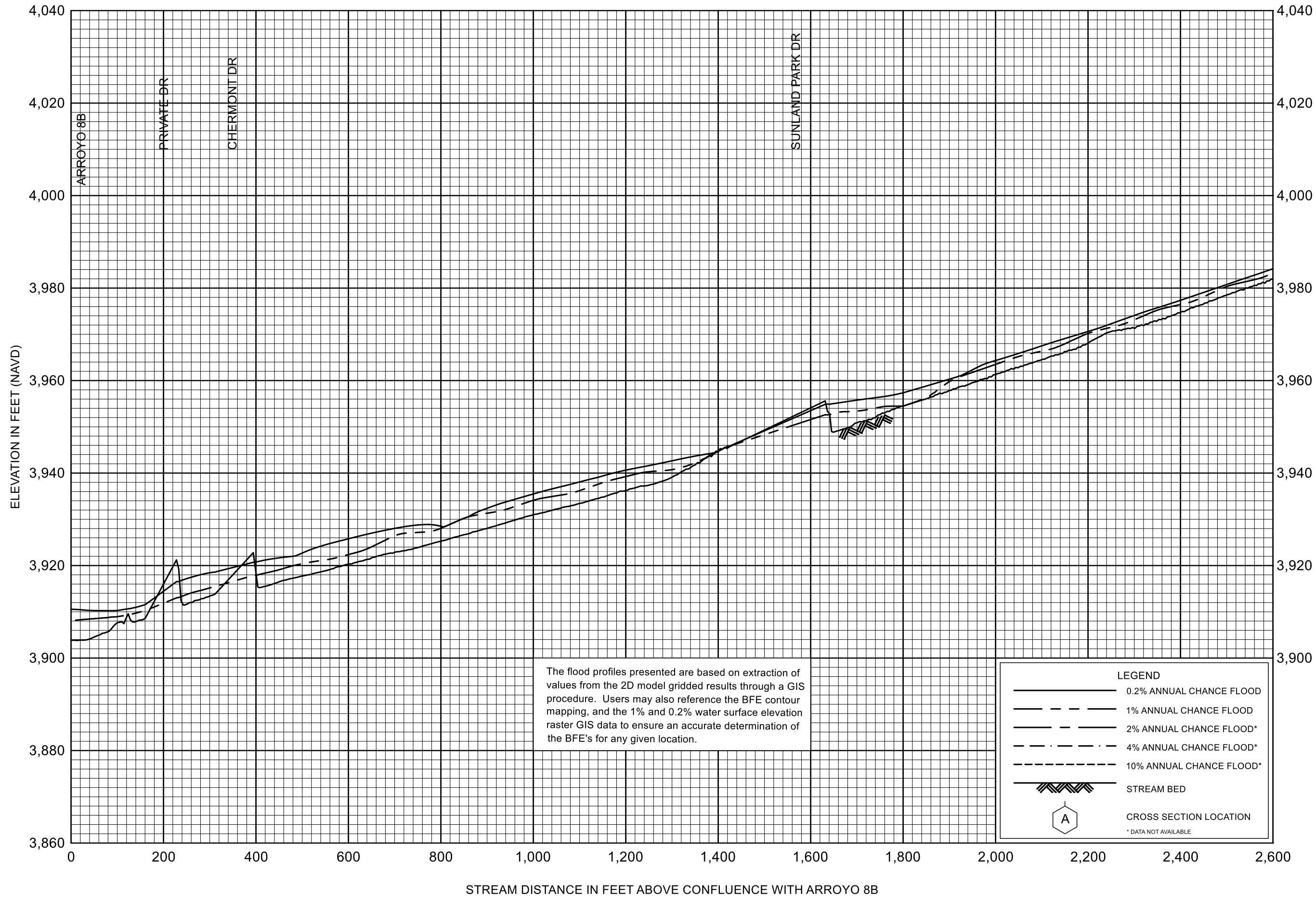


FLOOD PROFILES

ARROYO 8 (CHANNEL 15 MESA HILLS CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

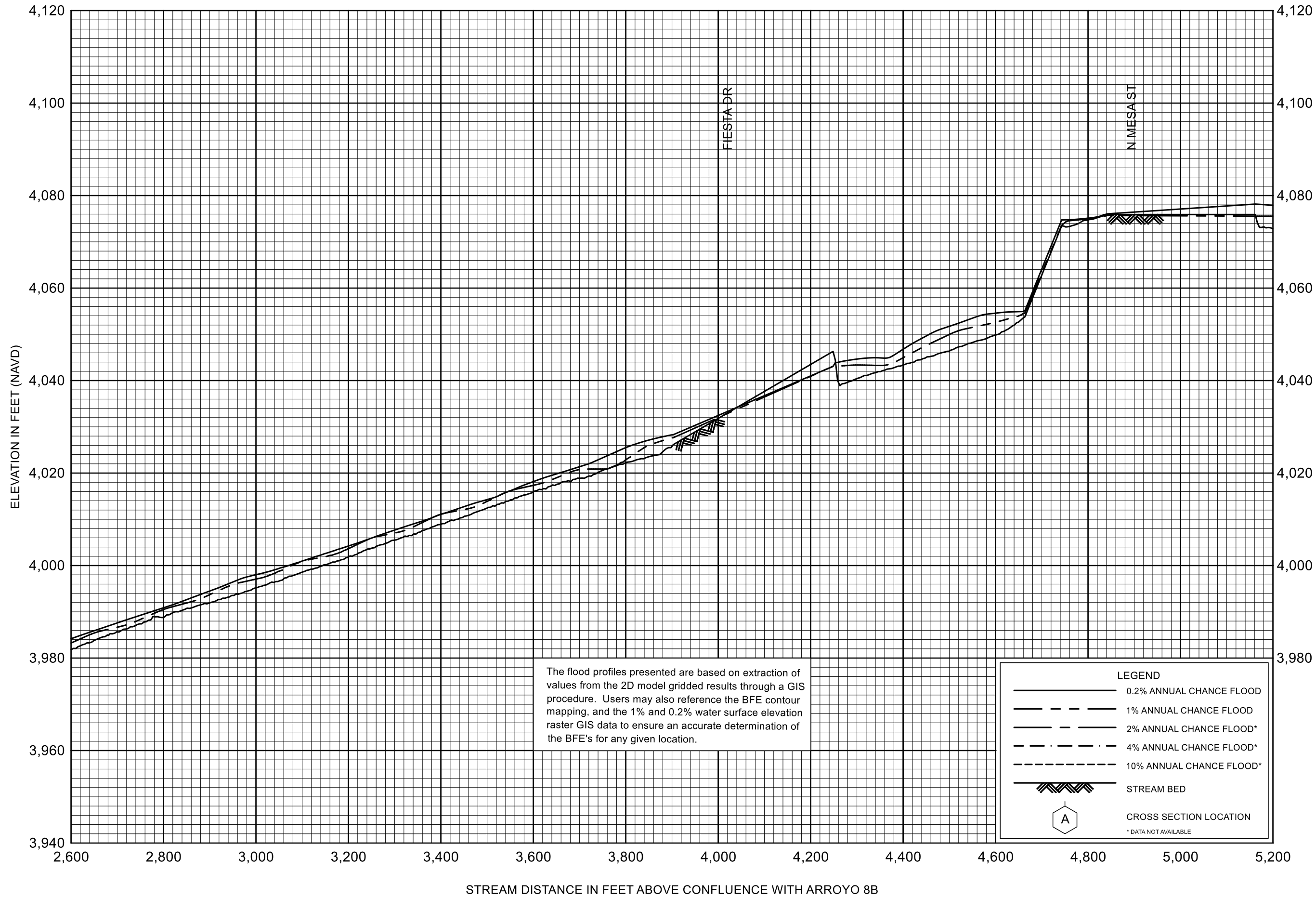


FLOOD PROFILES

ARROYO 8A (CHANNEL 11 THUNDERBIRD VALLEY)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

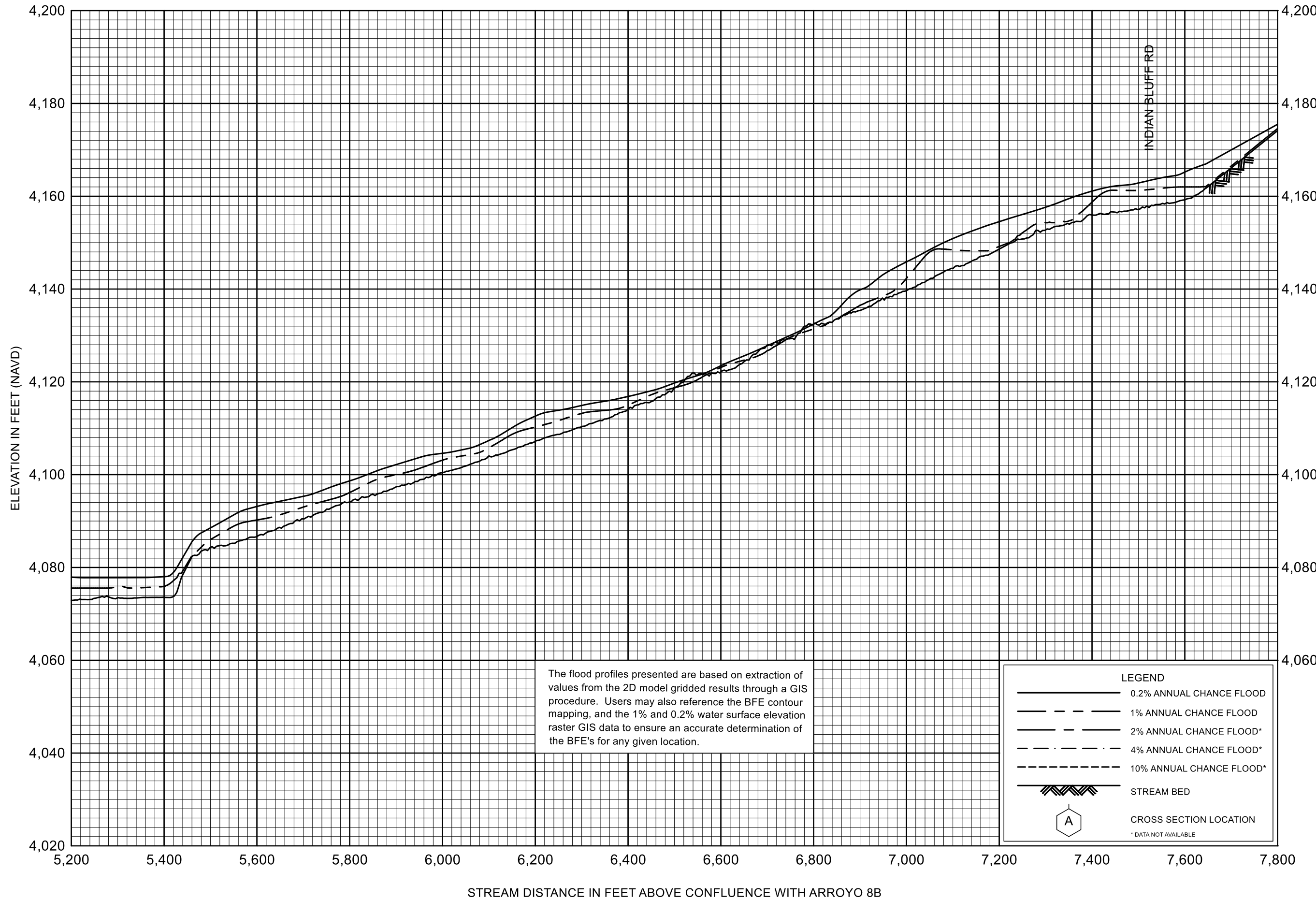


FLOOD PROFILES

ARROYO 8A (CHANNEL 11 THUNDERBIRD VALLEY)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

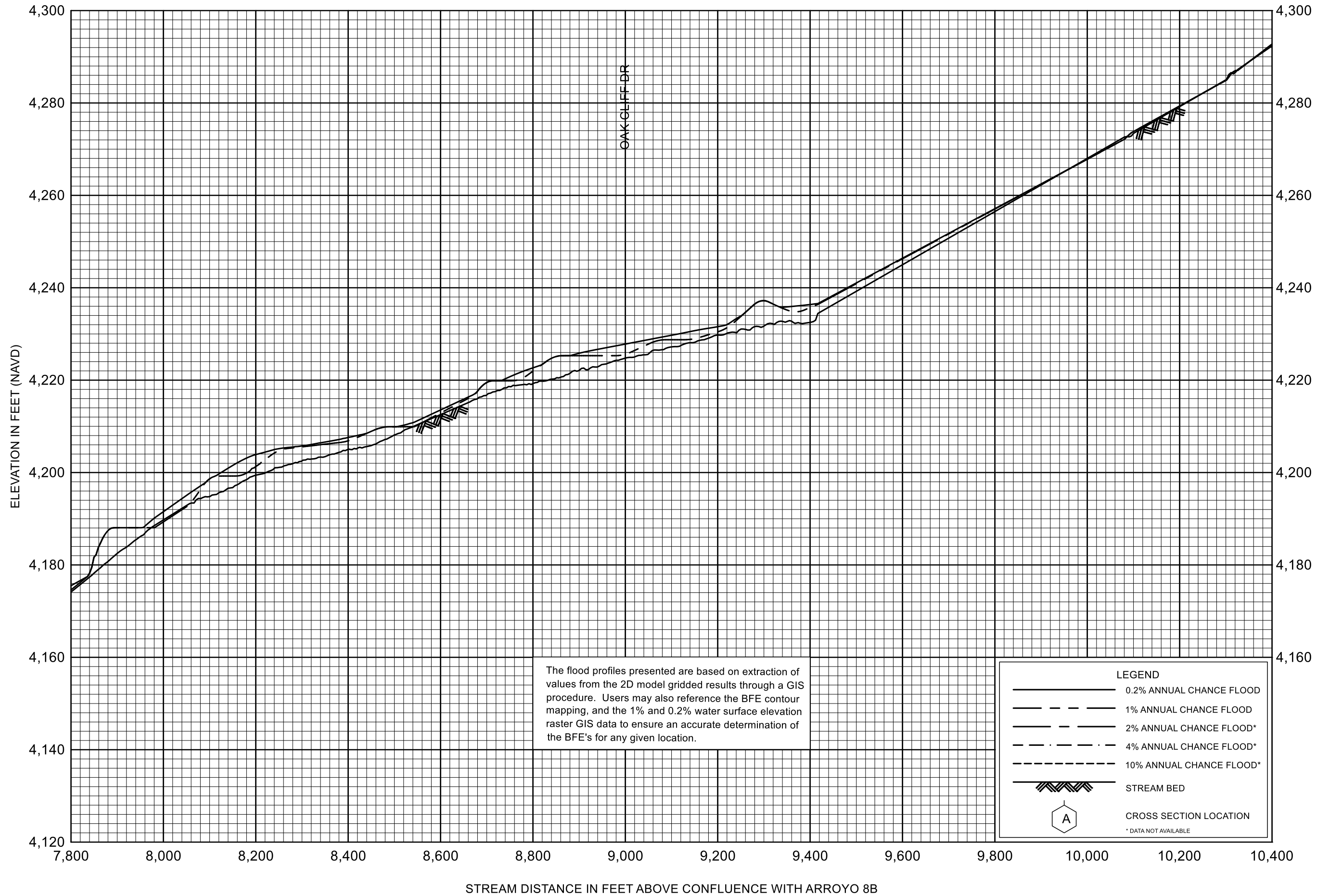


FLOOD PROFILES

ARROYO 8A (CHANNEL 11 THUNDERBIRD VALLEY)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

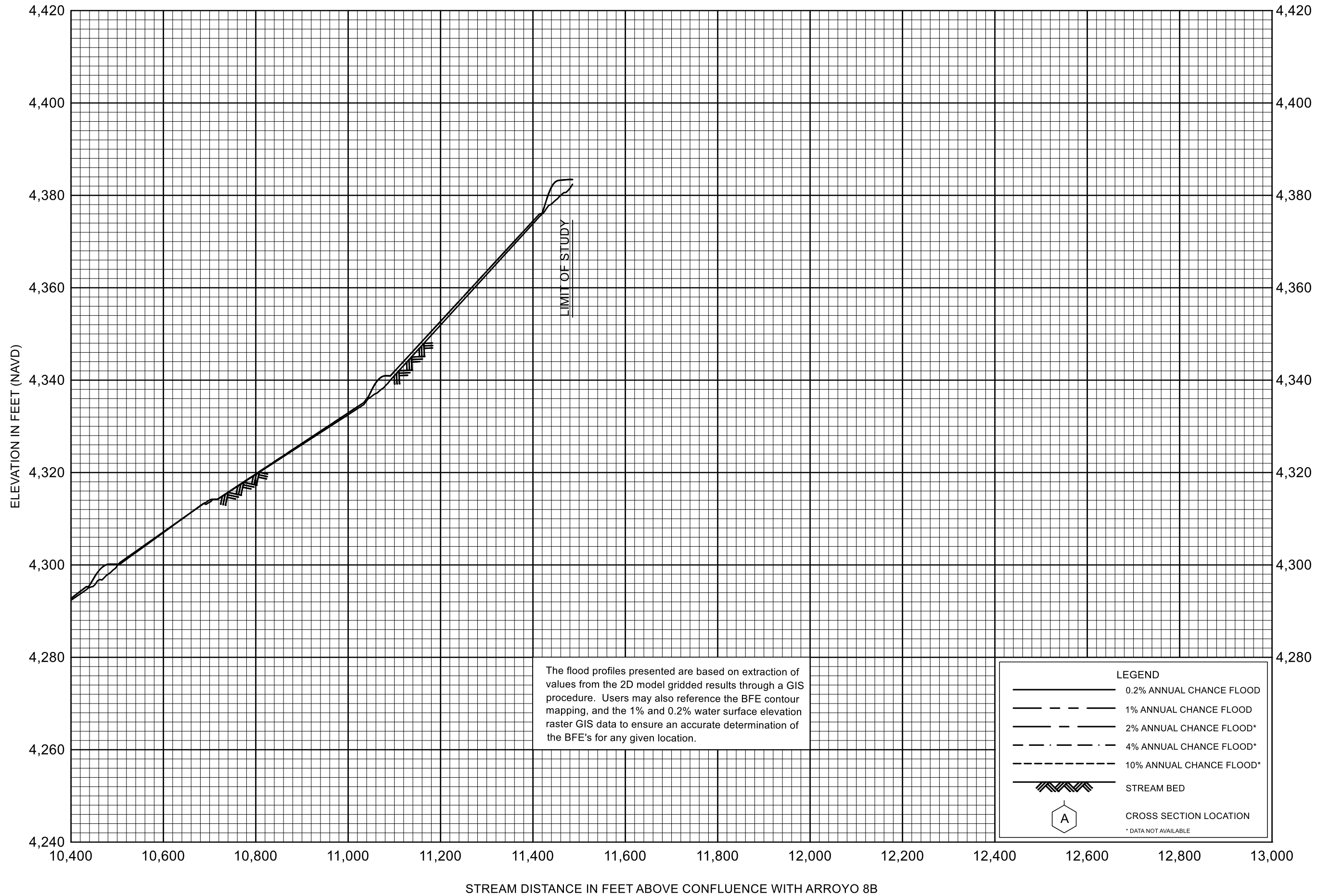


FLOOD PROFILES

ARROYO 8A (CHANNEL 11 THUNDERBIRD VALLEY)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

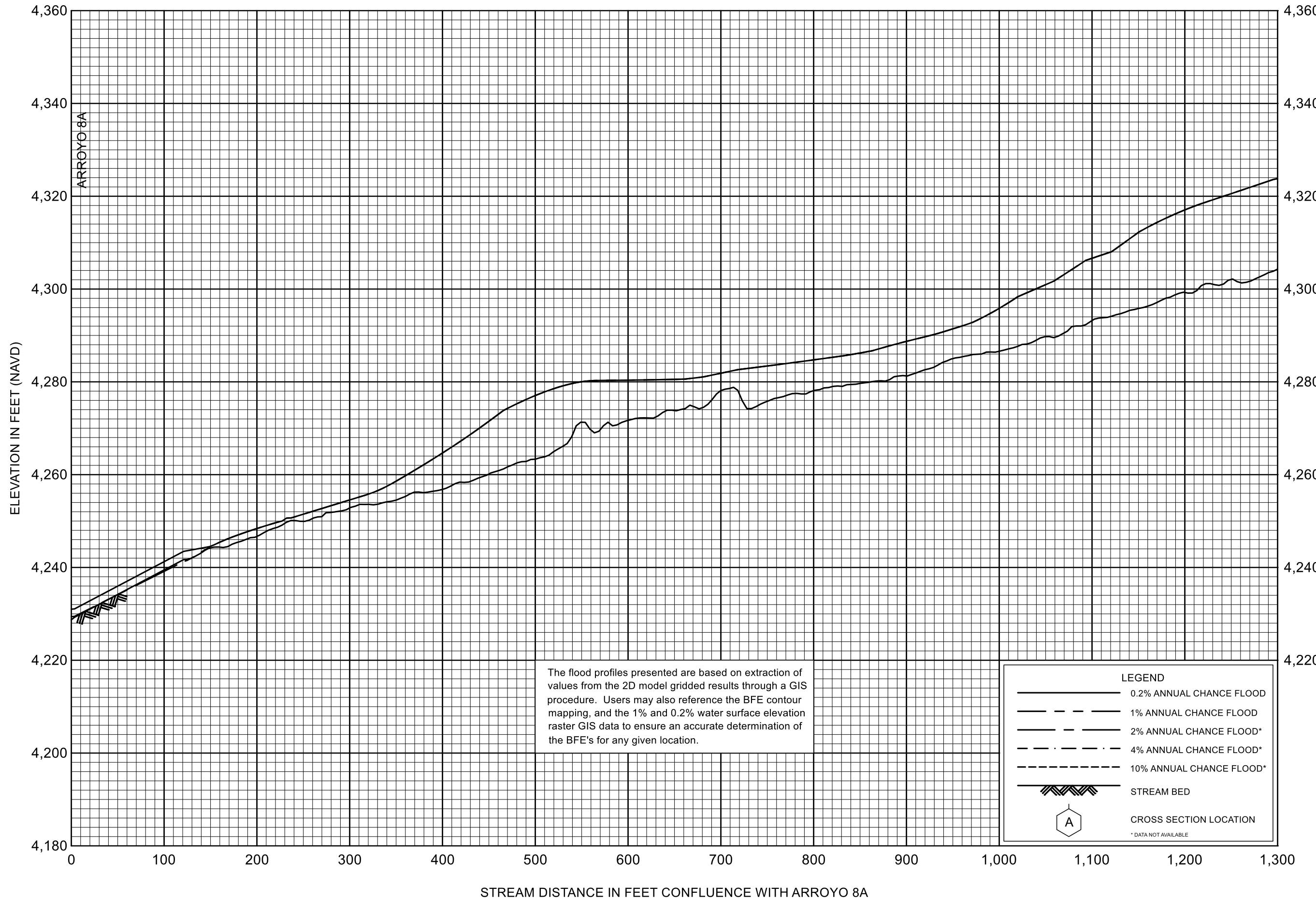


FLOOD PROFILES

ARROYO 8A (CHANNEL 11 THUNDERBIRD VALLEY)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

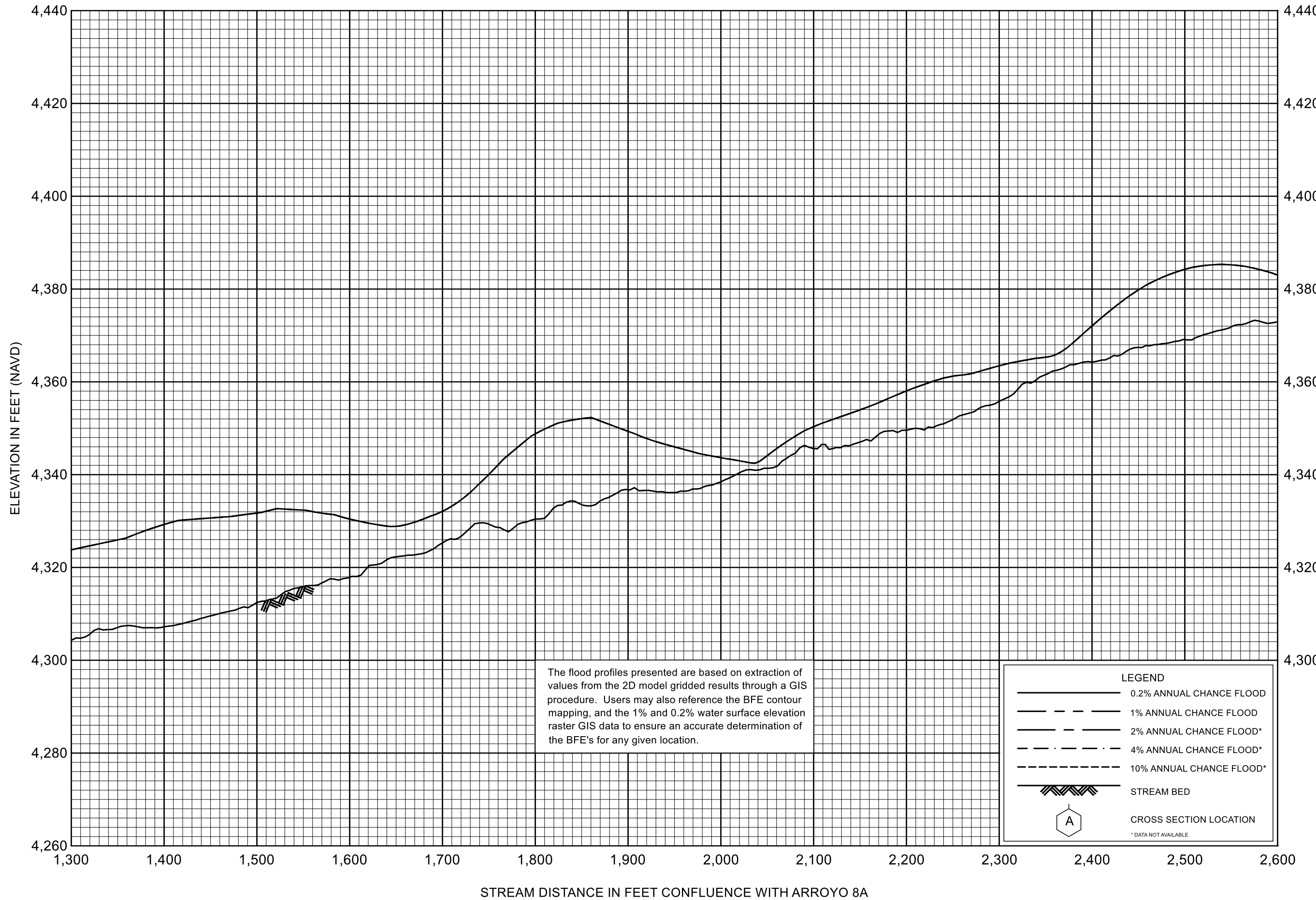


FLOOD PROFILES

ARROYO 8A.1

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

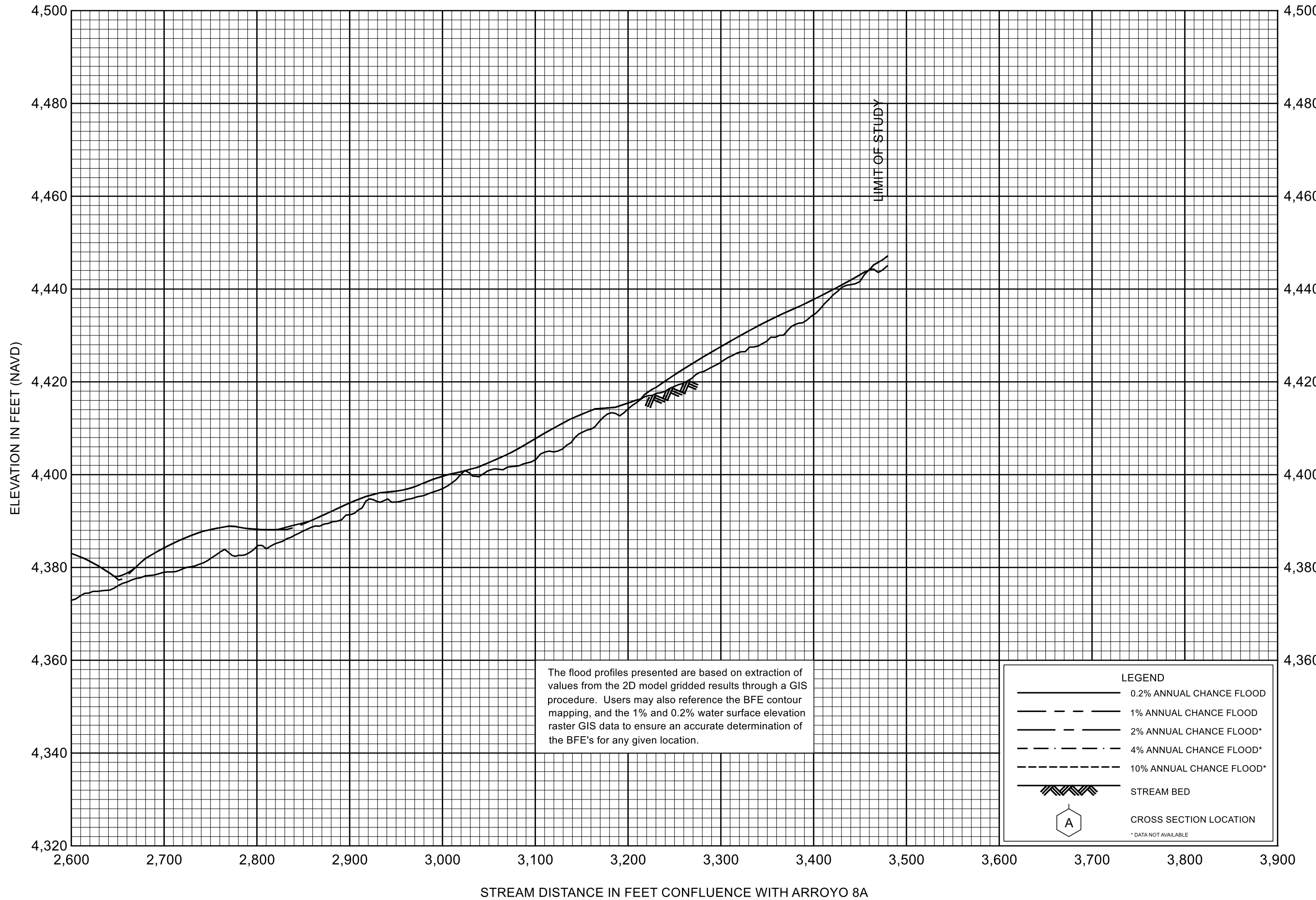


FLOOD PROFILES

ARROYO 8A.1

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

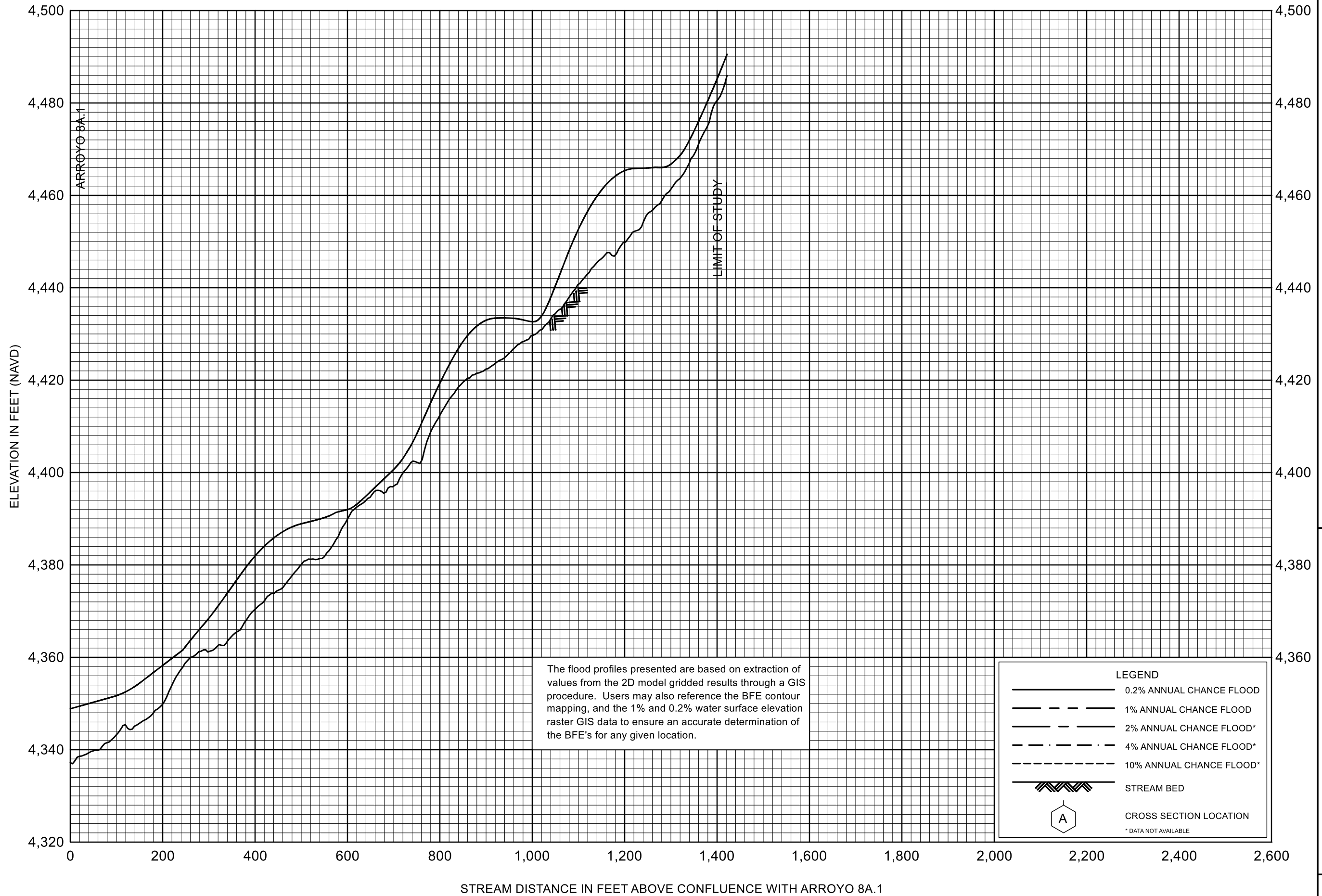


FLOOD PROFILES

ARROYO 8A.1

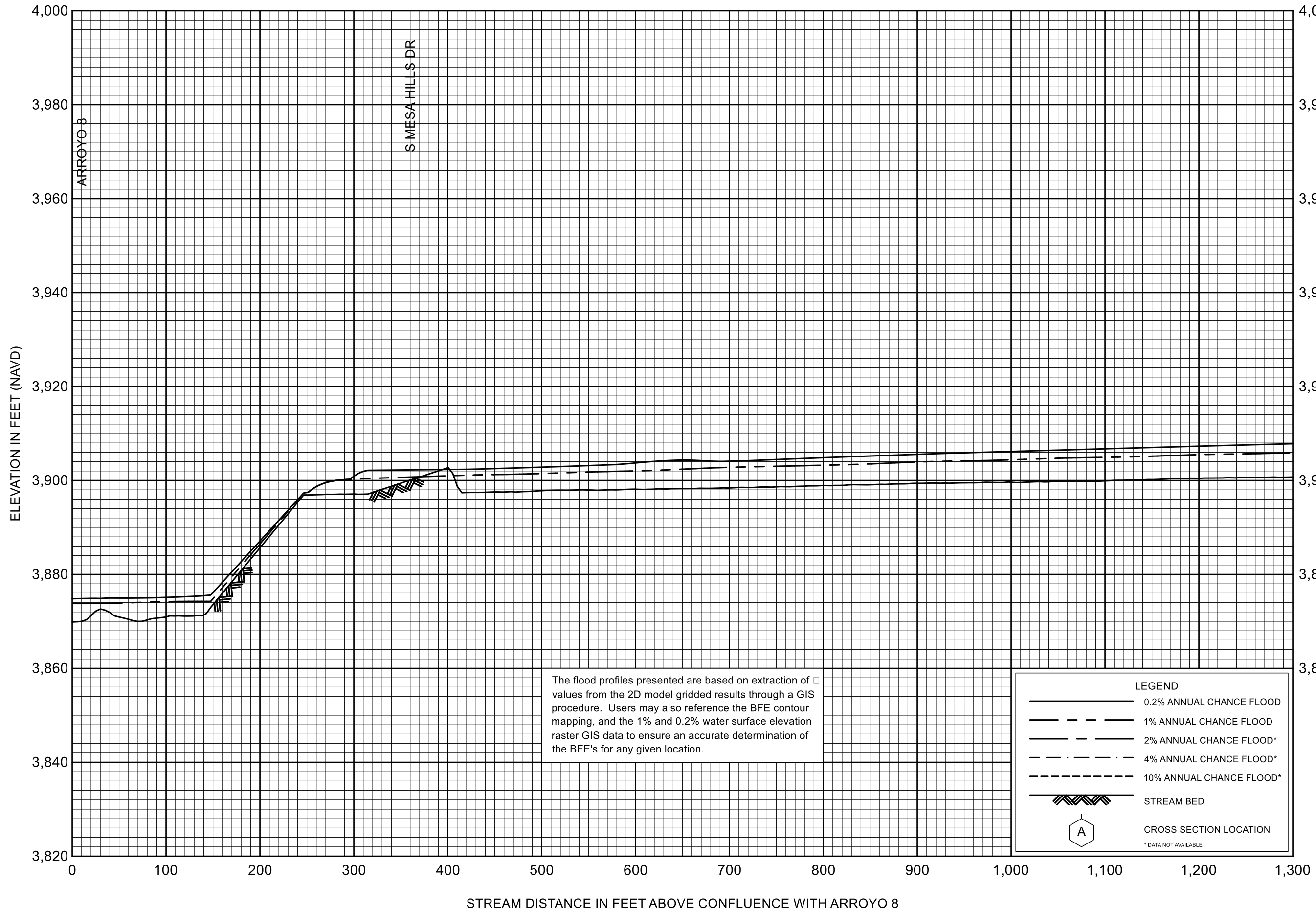
FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



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LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD*
	4% ANNUAL CHANCE FLOOD*
	10% ANNUAL CHANCE FLOOD*
	STREAM BED
	CROSS SECTION LOCATION
	* DATA NOT AVAILABLE

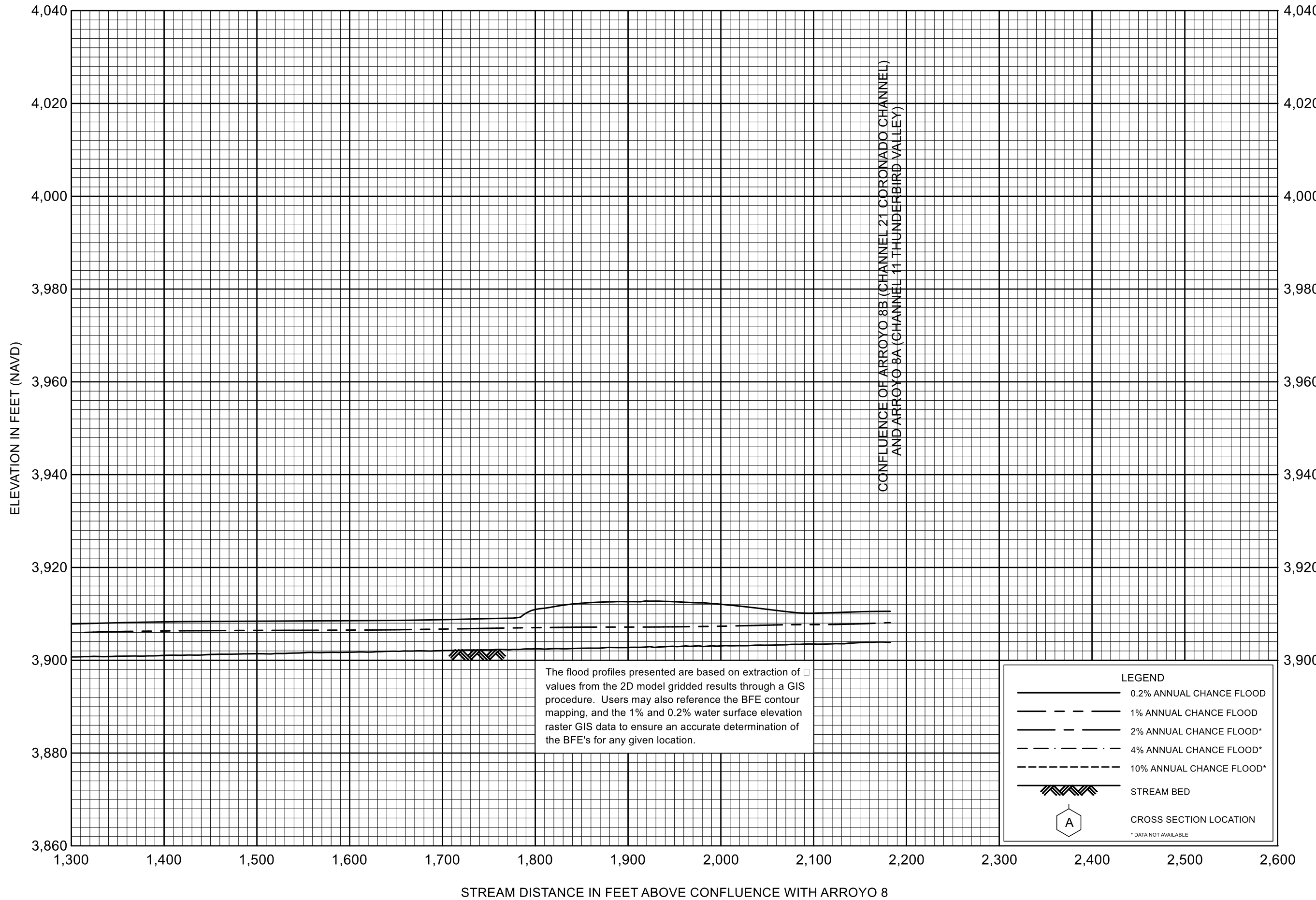


FLOOD PROFILES

ARROYO 8B (CHANNEL 14 BUENA VISTA CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

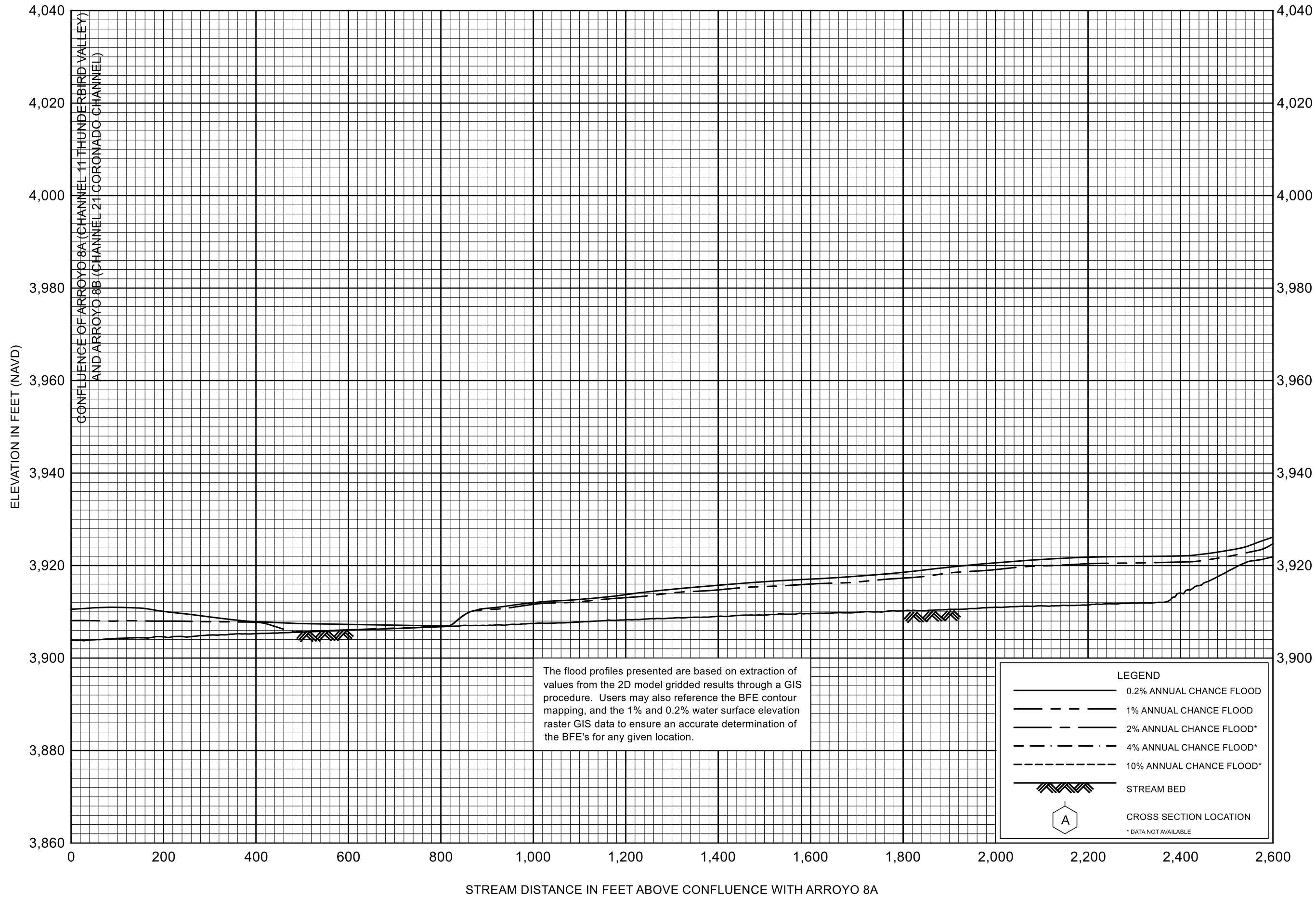
EL PASO COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES

ARROYO 8B (CHANNEL 14 BUENA VISTA CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY
EL PASO COUNTY, TX
AND INCORPORATED AREAS



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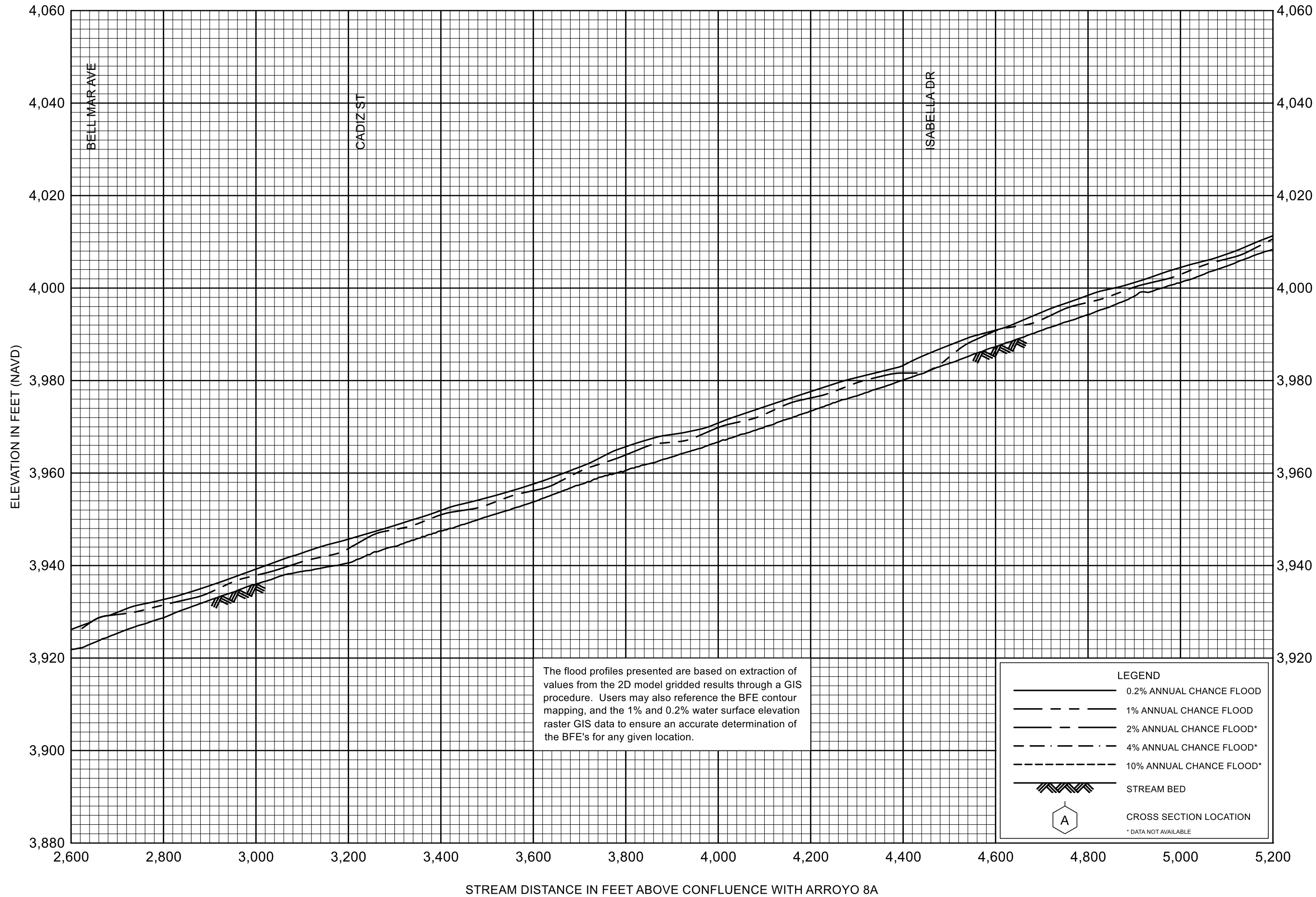
LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD*
	4% ANNUAL CHANCE FLOOD*
	10% ANNUAL CHANCE FLOOD*
	STREAM BED
	CROSS SECTION LOCATION
	* DATA NOT AVAILABLE

FLOOD PROFILES

ARROYO 8B (CHANNEL 21 CORONADO CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

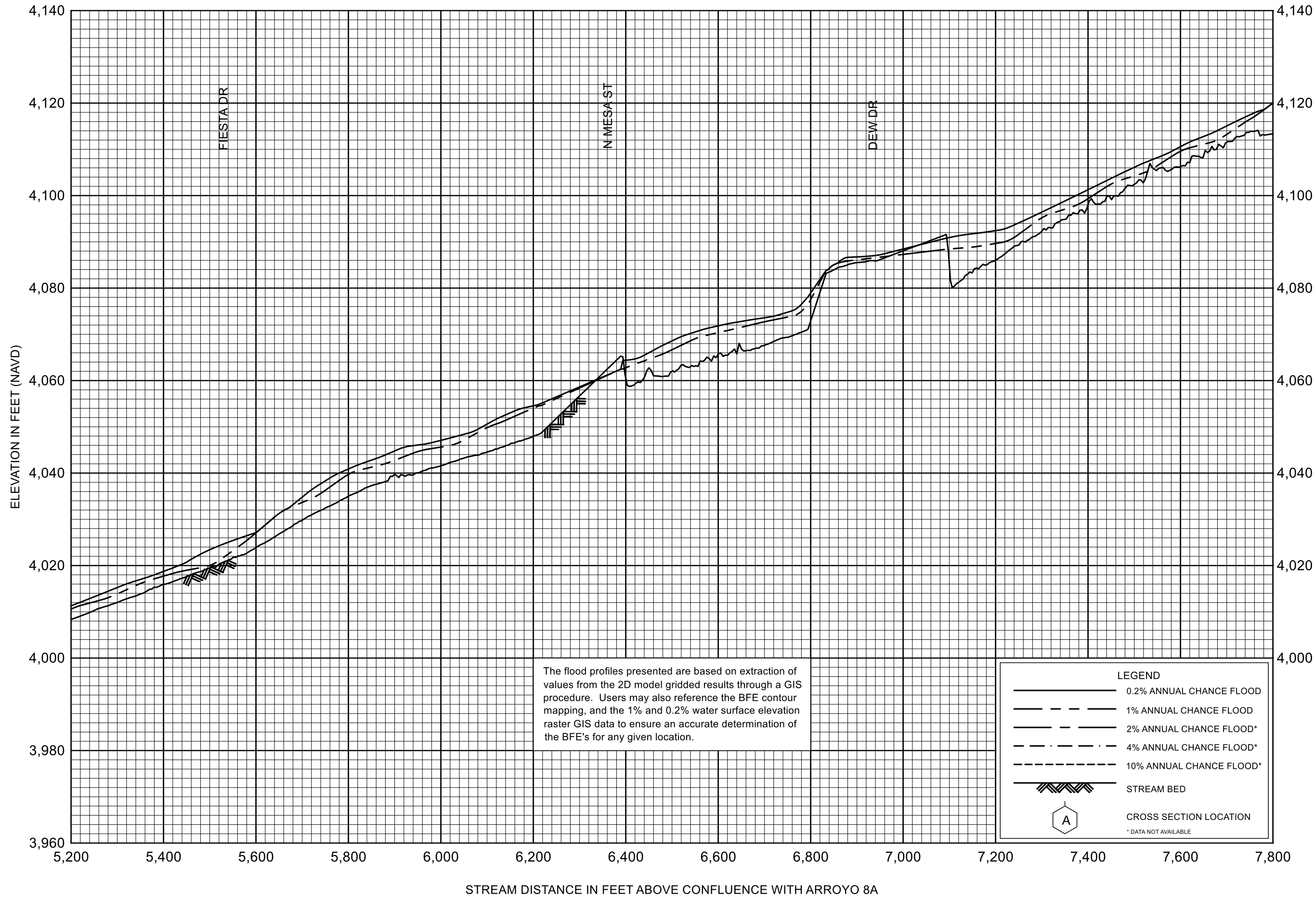


FLOOD PROFILES

ARROYO 8B (CHANNEL 21 CORONADO CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

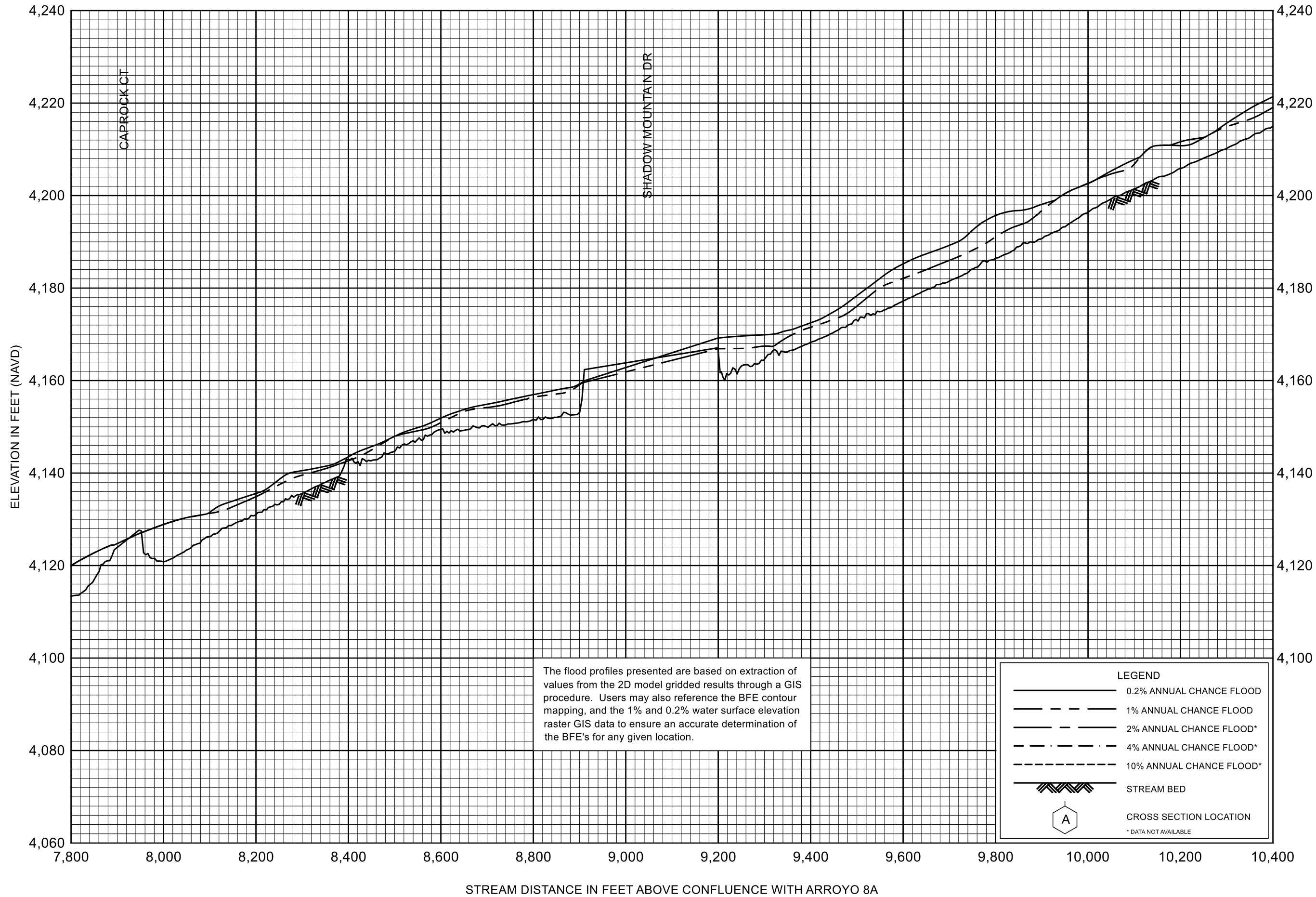


FLOOD PROFILES

ARROYO 8B (CHANNEL 21 CORONADO CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

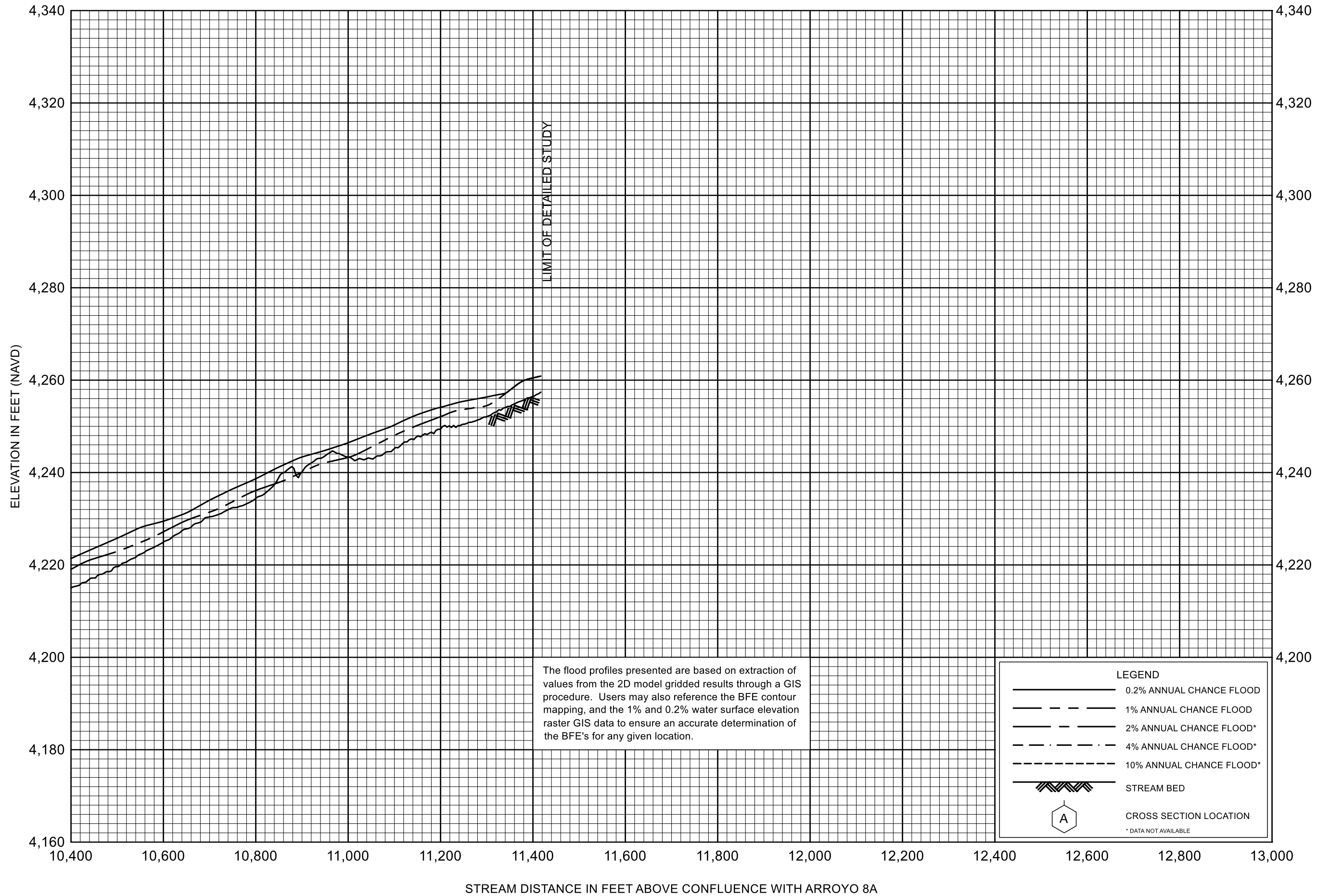


FLOOD PROFILES

ARROYO 8B (CHANNEL 21 CORONADO CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

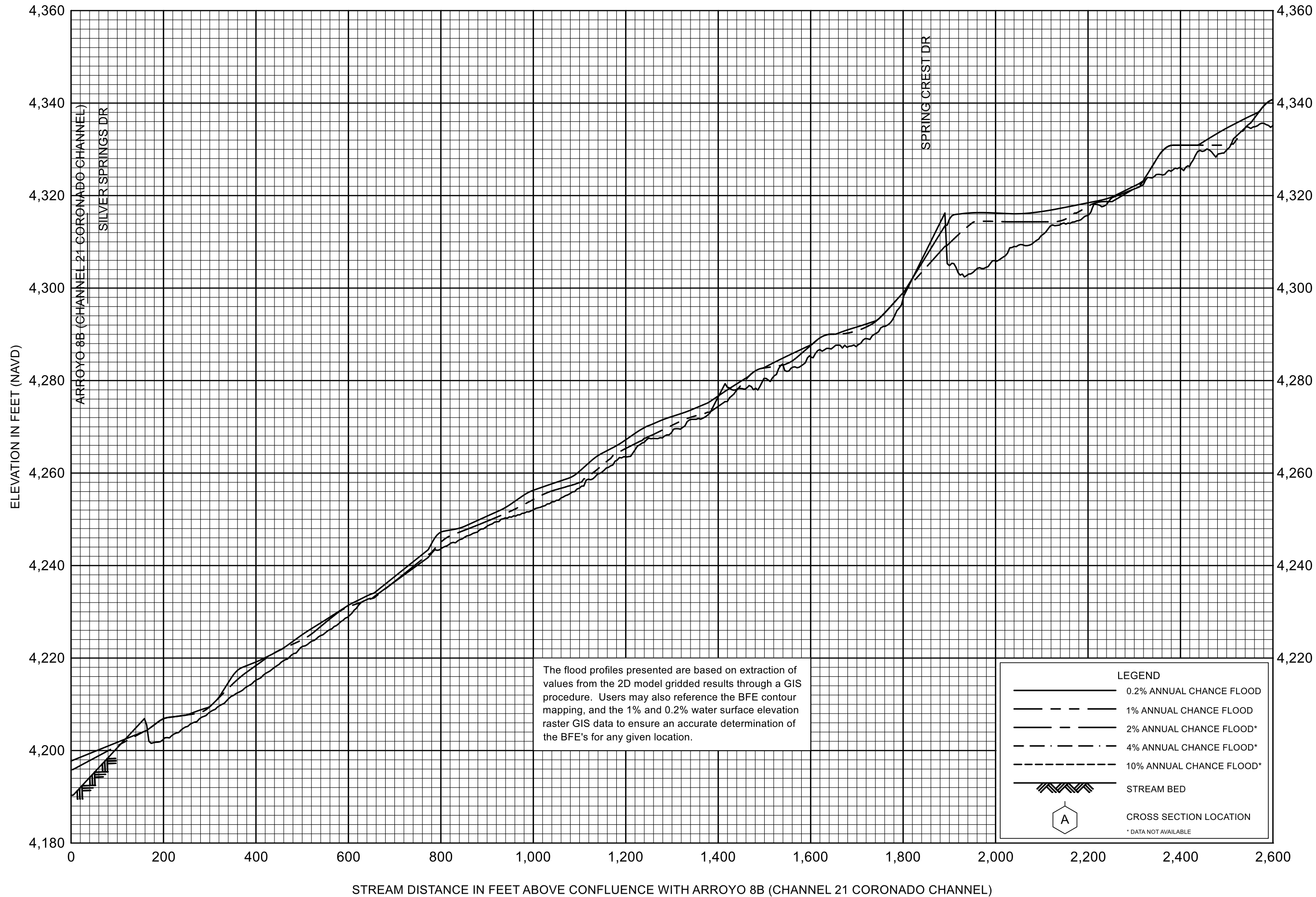


FLOOD PROFILES

ARROYO 8B (CHANNEL 21 CORONADO CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

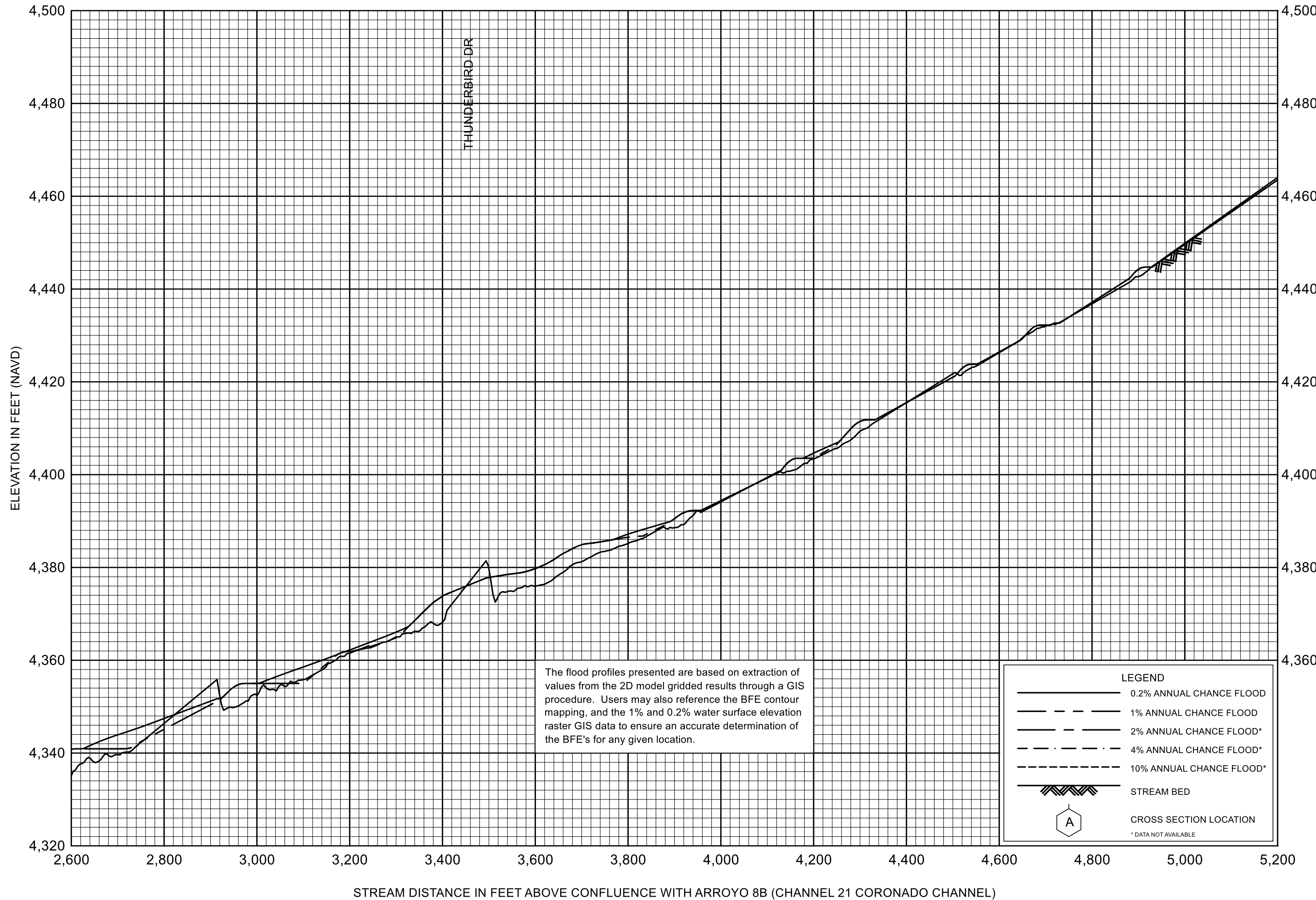


FLOOD PROFILES

ARROYO 8C (CHANNEL 13 SPRING CREST CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

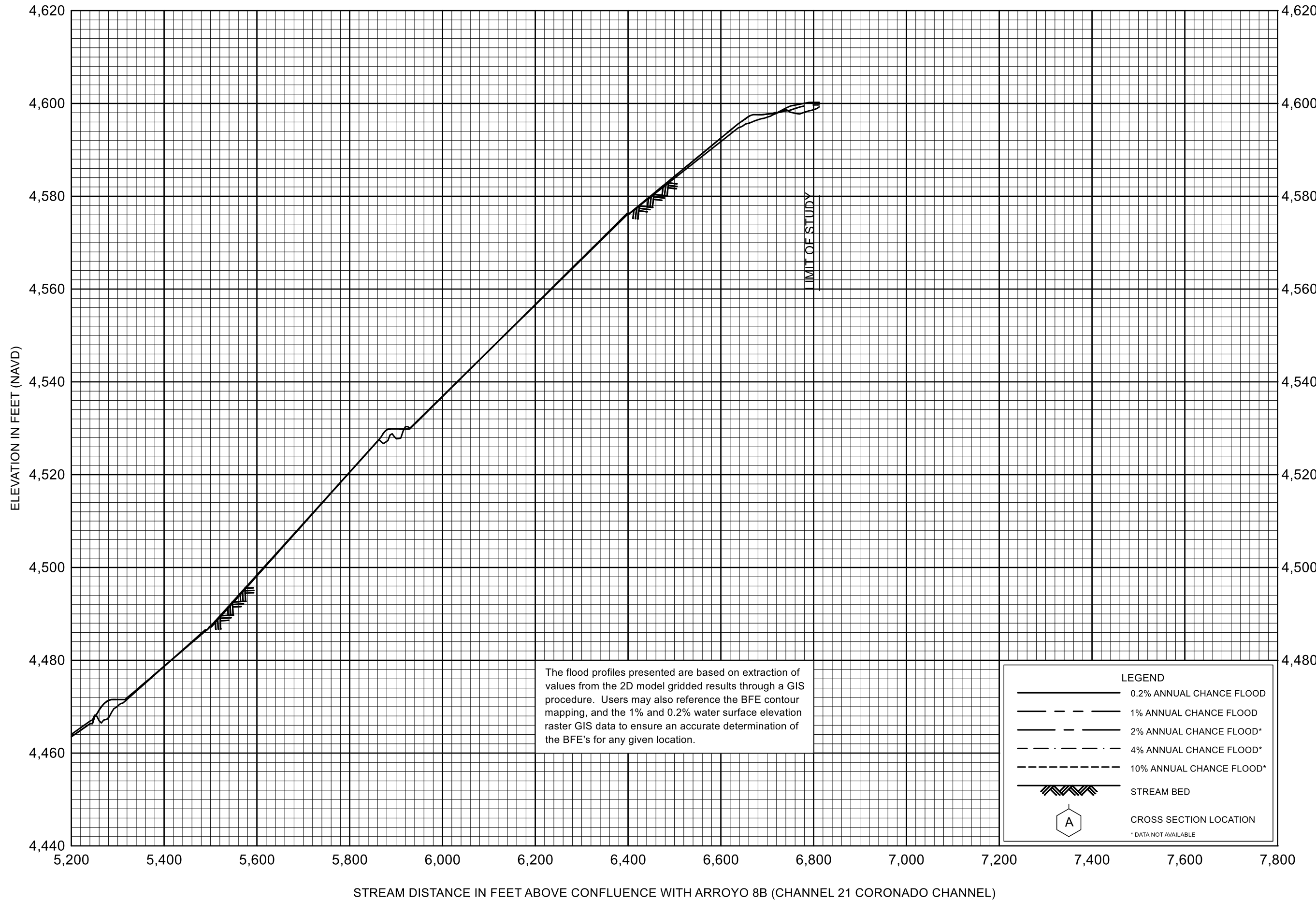


FLOOD PROFILES

ARROYO 8C (CHANNEL 13 SPRING CREST CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

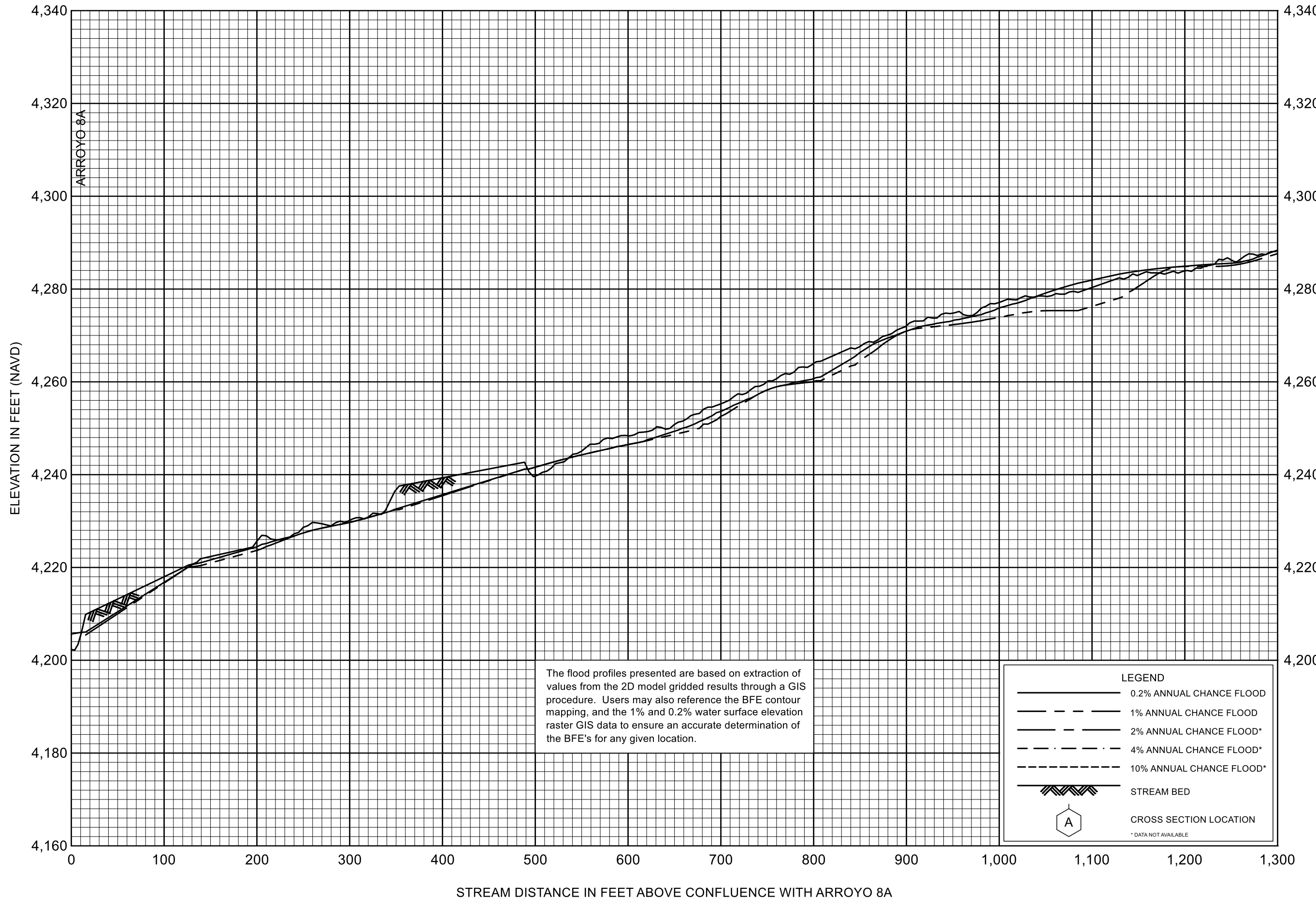


FLOOD PROFILES

ARROYO 8C (CHANNEL 13 SPRING CREST CHANNEL)

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

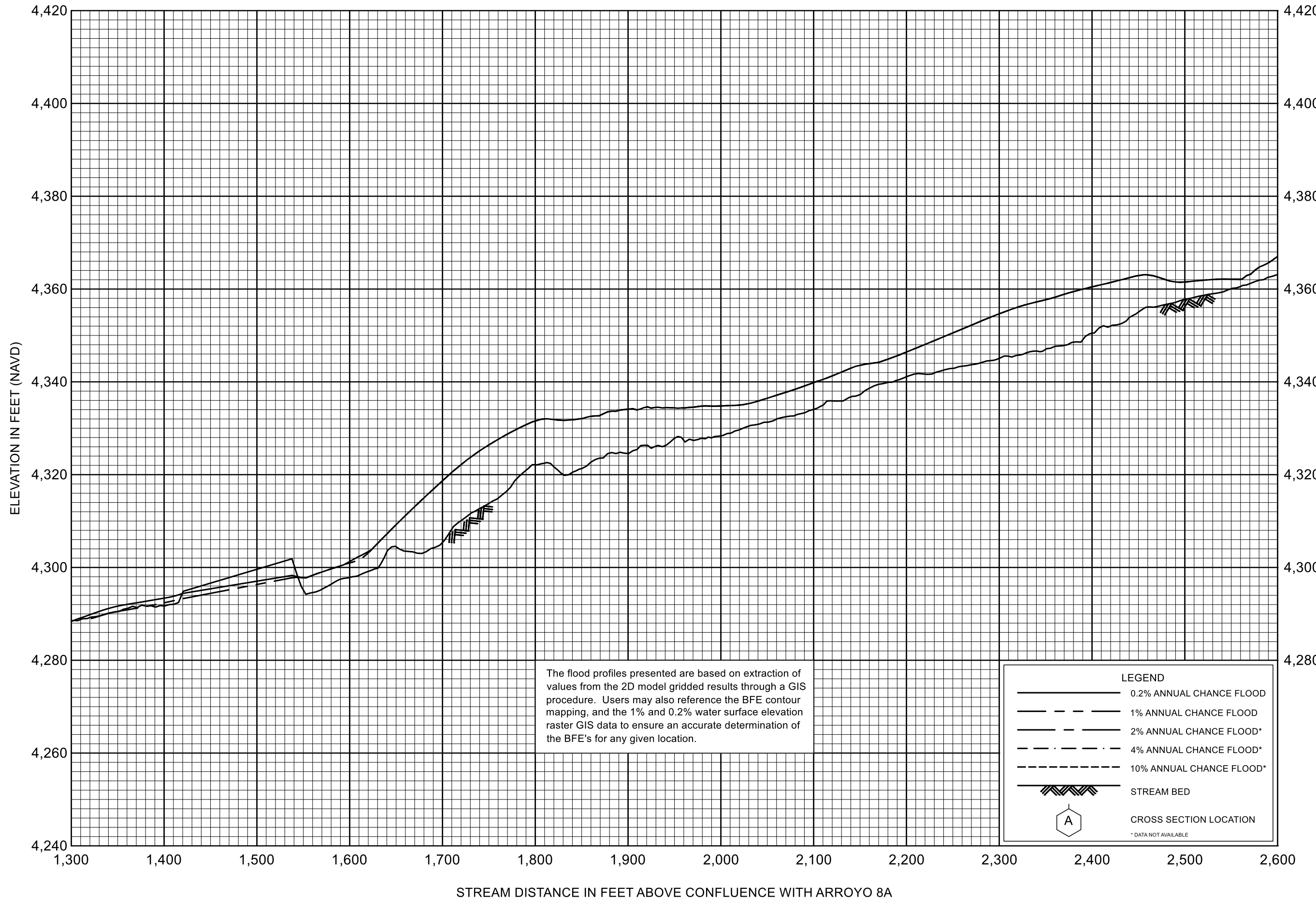


FLOOD PROFILES

ARROYO 8D

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

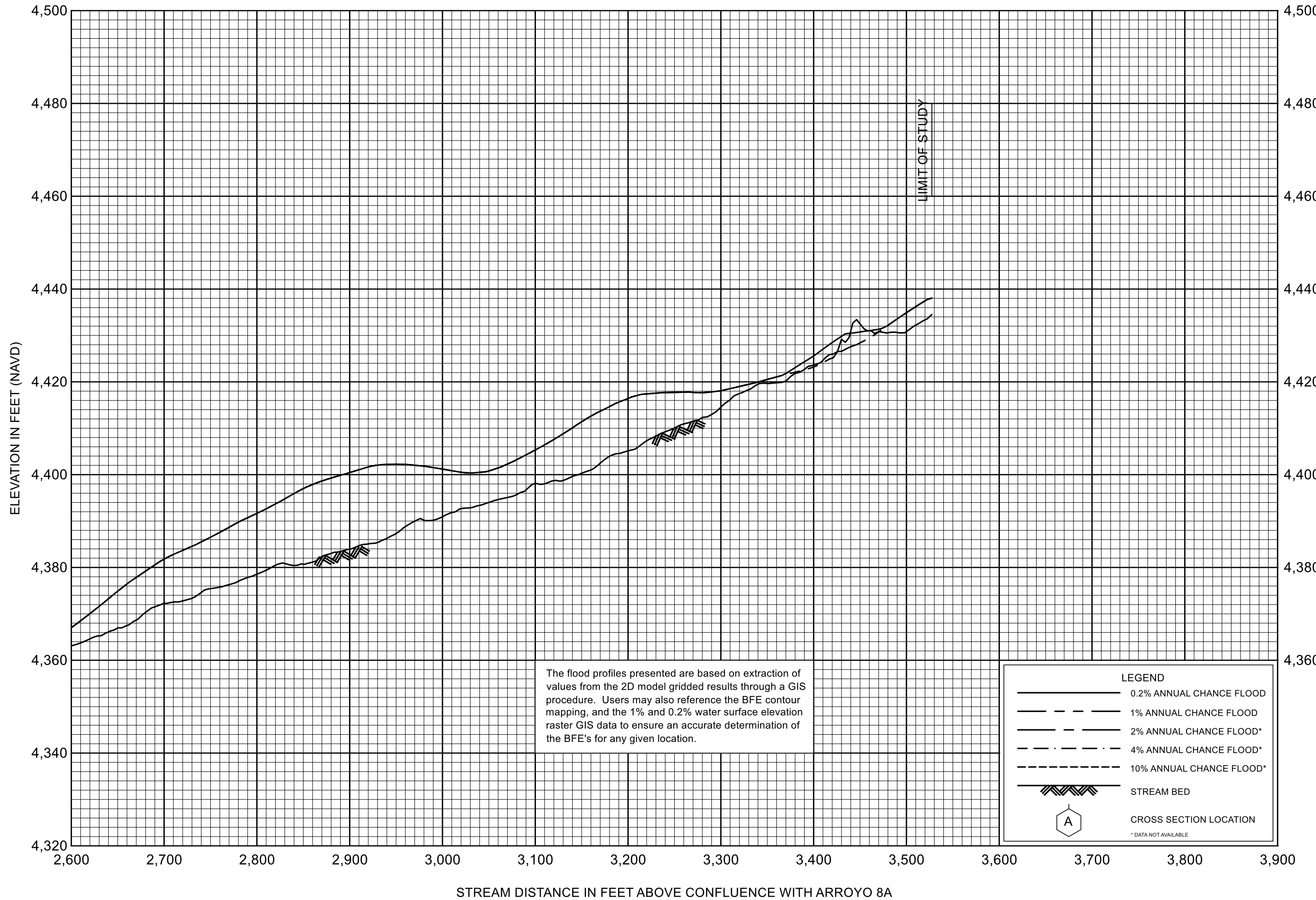


FLOOD PROFILES

ARROYO 8D

FEDERAL EMERGENCY MANAGEMENT AGENCY

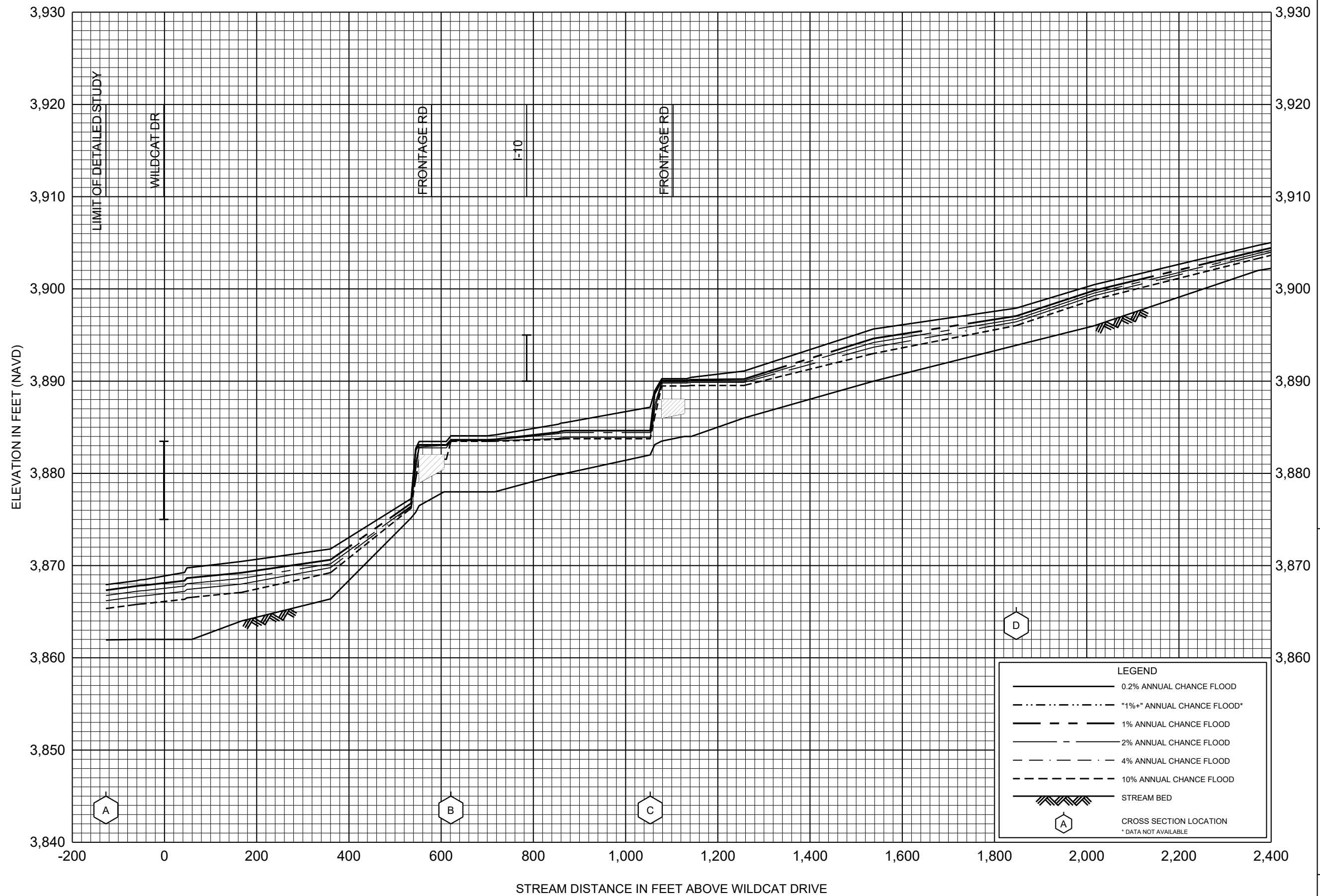
EL PASO COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES

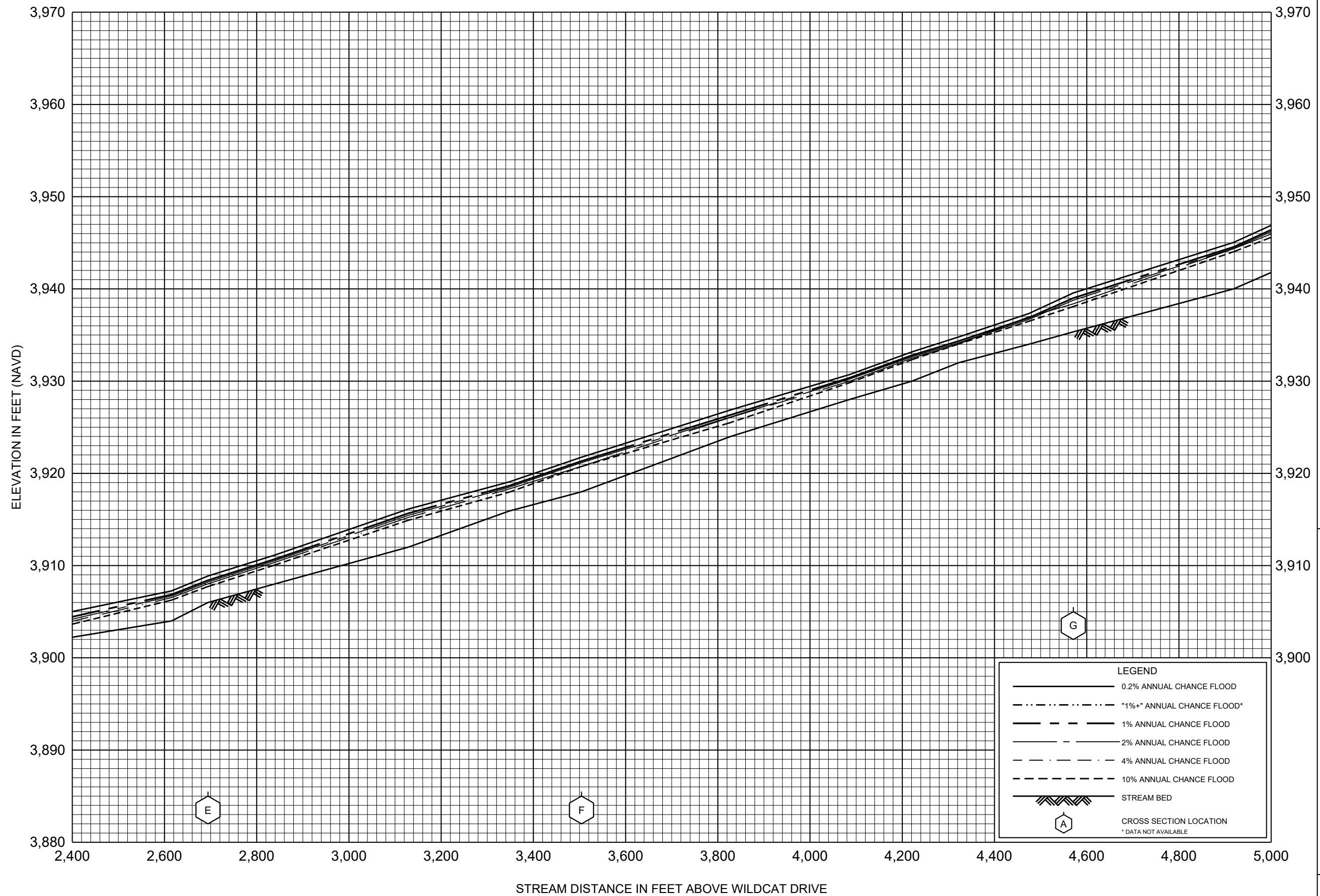
ARROYO 8D

FEDERAL EMERGENCY MANAGEMENT AGENCY
 EL PASO COUNTY, TX
 AND INCORPORATED AREAS



FLOOD PROFILES
CHANNEL 29

FEDERAL EMERGENCY MANAGEMENT AGENCY
EL PASO COUNTY, TX
AND INCORPORATED AREAS

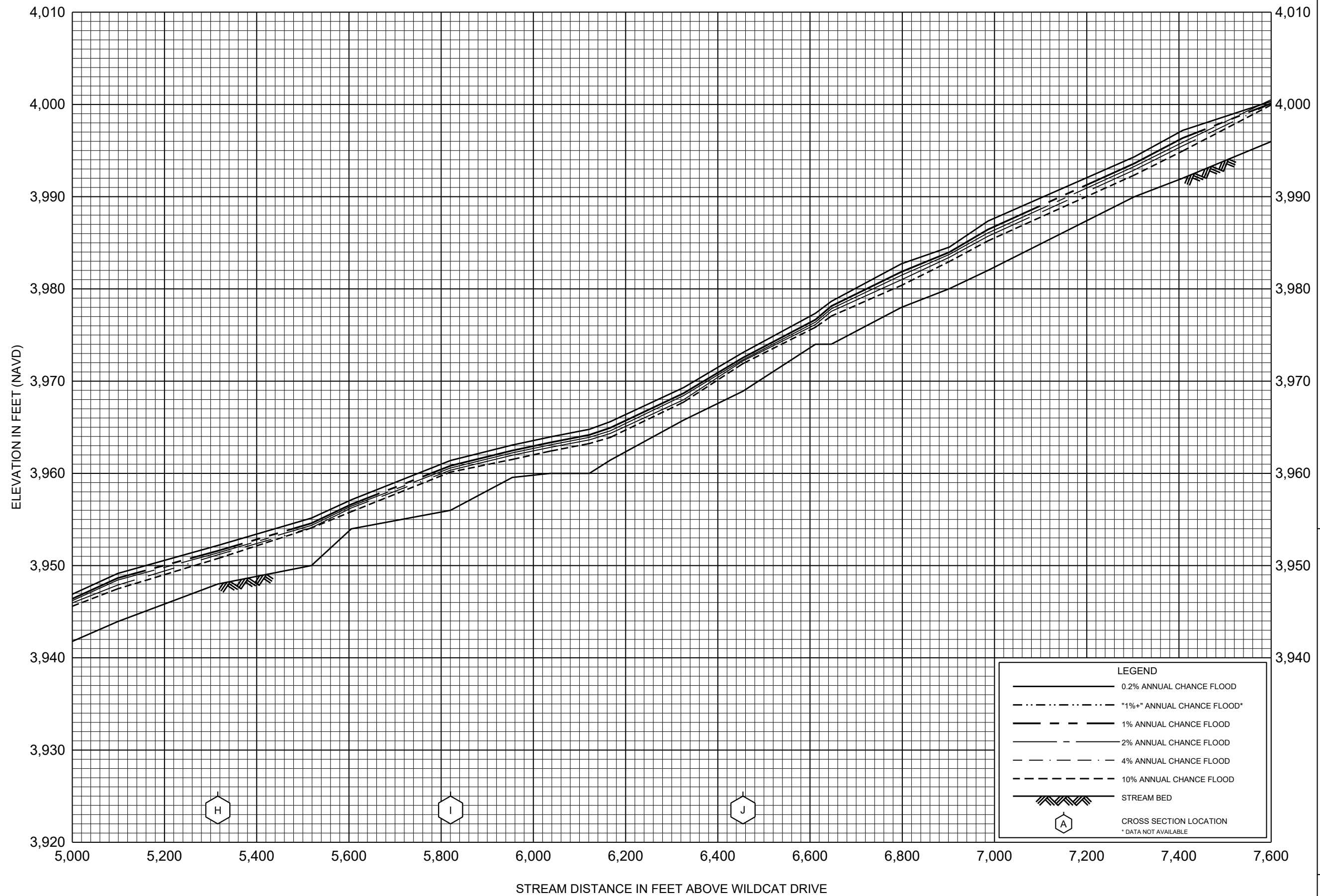


FLOOD PROFILES

CHANNEL 29

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS

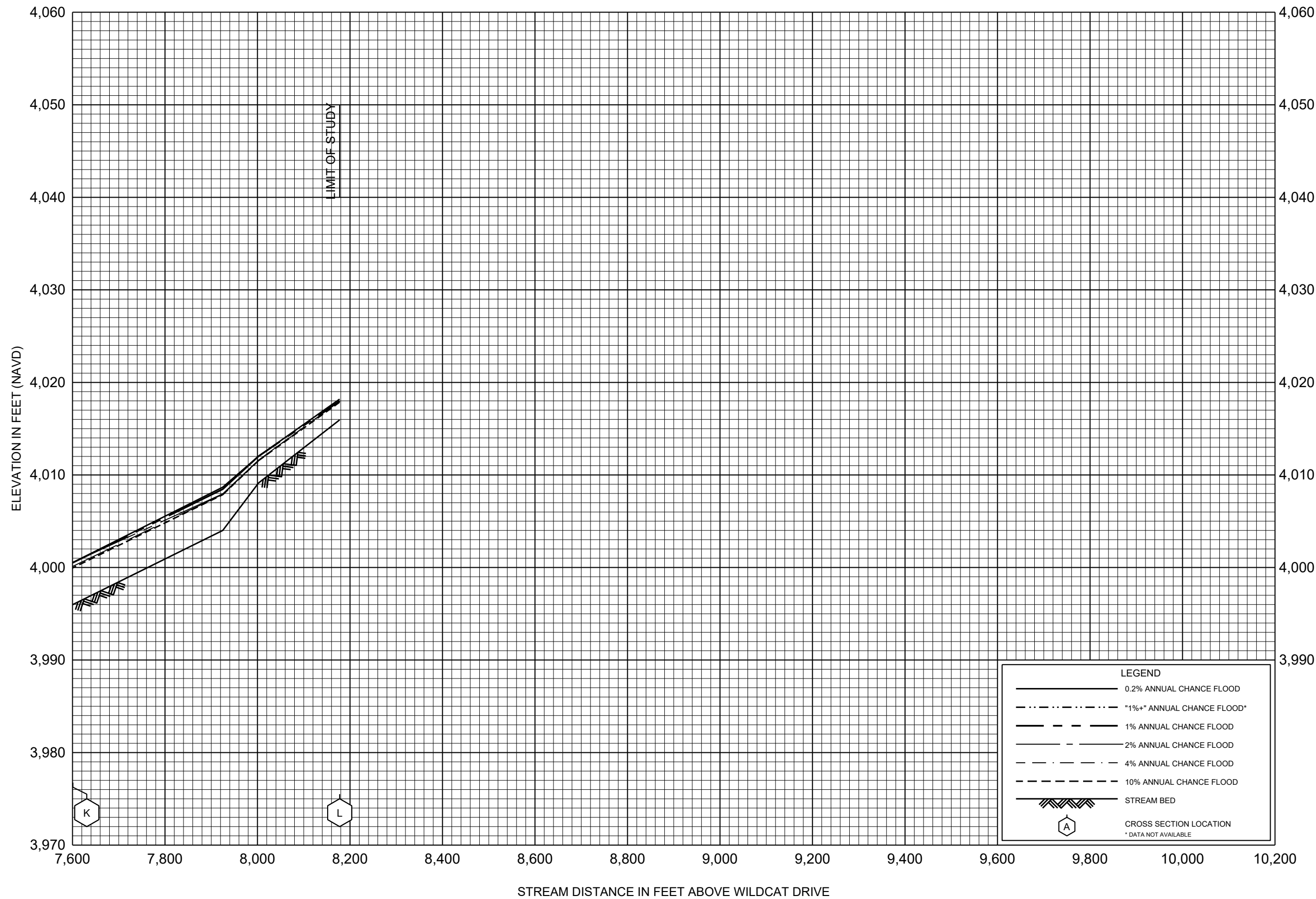


FLOOD PROFILES

CHANNEL 29

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS



FLOOD PROFILES

CHANNEL 29

FEDERAL EMERGENCY MANAGEMENT AGENCY

EL PASO COUNTY, TX
AND INCORPORATED AREAS