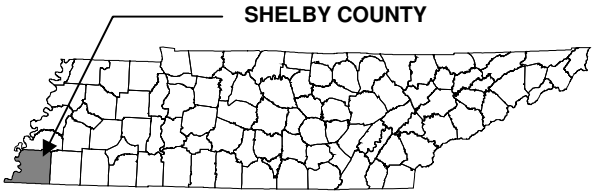
FLOOD INSURANCE STUDY

SHELBY COUNTY, TENNESSEE
AND INCORPORATED AREAS

VOLUME 1 OF 3



Community Name	Community Number
ARLINGTON, TOWNSHIP OF	470262
BARTLETT, CITY OF	470175
COLLIERVILLE, TOWN OF	470263
GERMANTOWN, CITY OF	470353
LAKELAND, CITY OF	470402
MEMPHIS, CITY OF	470177
MILLINGTON, CITY OF	470178
SHELBY COUNTY (UNINCORPORATED AREAS)	470214

REVISED:
February 6, 2013

Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
47157CV001B

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

Part or all of this FIS report may be revised and republished at any time. In addition, part of this FIS report may be revised by the Letter of Map Revision process, which does not involve republication or redistribution of the FIS report. It is, therefore, the responsibility of the user to consult with community officials and to check the community repository to obtain the most current FIS report components. A listing of the Community Map Repositories can be found on the Index Map.

Initial Countywide FIS Effective Date: December 2, 1994

First Revised Countywide FIS Revision Date: September 28, 2007

Second Revised Countywide FIS Revision Date: February 6, 2013

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FLOOD INSURANCE STUDY
SHELBY COUNTY, TENNESSEE AND INCORPORATED AREAS

1.0 INTRODUCTION

1.1 Purpose of Study

This Flood Insurance Study (FIS) revises and supersedes the FIS reports and/or Flood Insurance Rate Maps (FIRMs) in the geographic area of Shelby County, Tennessee, including the Cities of Bartlett, Germantown, Lakeland, Memphis and Millington, the Town of Collierville, the Township of Arlington, and unincorporated areas of Shelby County (hereinafter referred to collectively as Shelby County), and aids in the administration of the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973. This study has developed flood risk data for various areas of the community that will be used to establish actuarial flood insurance rates. This information will also be used by Shelby County to update existing floodplain regulations as part of the Regular Phase of the National Flood Insurance Program (NFIP), and by local and regional planners to further promote sound land use and floodplain development. Minimum floodplain management requirements for participation in the NFIP are set forth in the Code of Federal Regulations at 44 CFR, 60.3.

In some states or communities, floodplain management criteria or regulations may exist that are more restrictive or comprehensive than the minimum Federal requirements. In such cases, the more restrictive criteria take precedence and the state (or other jurisdictional agency) will be able to explain them.

1.2 Authority and Acknowledgments

The sources of authority for this Flood Insurance Study are the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973.

The hydrologic and hydraulic analyses for Fletcher Creek, Howard Creek, Ivy Creek, Loosahatchie River Lateral A, Loosahatchie River Lateral CA, Nonconnah Creek, North Fork Creek Lateral A, Oliver Creek, Wolf River Lateral C, Wolf River Lateral F, Wolf River Lateral G, Wolf River Lateral H, Wolf River Lateral J were performed by Taylor Engineering, Inc., for the Federal Emergency Management Agency (FEMA), under BakerAECOM Contract No. HSFEHQ-09-D-0368, and BakerAECOM Task Order HSFE04-09-J-066. Taylor Engineering completed this work in September 2010.

The remaining streams for this study have hydrologic and hydraulic analyses that date back to a previously published FIS.

Basemap data was provided by the State of Tennessee, Department of Finance and Administration, Office for Information Resources, GIS Services.

312 8th Avenue North
16th Floor, WRS Tennessee Tower
Nashville, TN 37243-0288

The basemap data was provided in GCS_North_American_1983 coordinate system and Lambert_Conformal_Conic State Plane Tennessee FIPS 4100 Feet projection. The datum was North American Datum 1983.

1.3 Coordination

The streams requiring detailed restudy were identified at the Initial Consultation and Coordination (CCO) meeting attended by personnel of the study contractor, the State of Tennessee, FEMA, and communities within Shelby County October 6, 2009. Letters were sent to various State, Federal, and private agencies informing them of the forthcoming insurance study and requesting any pertinent information available.

On December 15, 2009, an intermediate CCO was held to discuss the proposed scope of study. Attendees included representatives from the study contractor and the communities within Shelby County.

On February 23, 2011, the results of this Flood Insurance Study were reviewed and accepted at a final coordination meeting attended by representatives of the study contractor, FEMA, the State of Tennessee, and the community.

2.0 AREA STUDIED

2.1 Scope of Study

This Flood Insurance Study covers the geographic area of Shelby County, Tennessee.

For this revision, Taylor Engineering, a member of BakerAECOM, LLC, conducted detailed hydraulic studies for the thirteen flooding sources, Fletcher Creek, Howard Creek, Ivy Creek, Loosahatchie River Lateral A, Loosahatchie River Lateral CA, Nonconnah Creek (upstream of stream station 127,987), North Fork Creek Lateral A, Oliver Creek, Wolf River Lateral C, Wolf River Lateral F, Wolf River Lateral G, Wolf River Lateral H, and Wolf River Lateral J to determine their 10-, 2-, 1- and 0.2-annual chance flood elevations.

The following streams were redelineated in the 2007 study their flood data is carried over to this study: Bear Creek; Bear Creek Lateral A; Beaver Creek; Big Creek Drainage Canal; Big Creek Lateral A; Casper Creek; Crooked Creek Drainage Canal; Crooked Creek Laterals A and B; Cypress Creek; Cypress Creek Drainage Canal; Days Creek; East Beaver Creek; Fletcher Creek Laterals A, B, BB, C, and D; Gray's Creek; Hall Creek; Harrington Creek; Harrington Creek Laterals A, B, C, D, E, and F; Howard Road Outfall; Hurricane Creek; Jakes Creek; John's Creek; John's Creek Laterals A, AA, AB, and B; the Loosahatchie River; Loosahatchie River Lateral C; Marys Creek; Mississippi River; Nonconnah Creek (from the mouth to stream station 127,987); Nonconnah Creek Laterals B, BA, C, and J; North Fork Creek; Royster Creek; Tenmile Creek; and Tenmile Creek Lateral A; West Beaver Creek; Wolf River; Wolf River Laterals A, AA, B, BA, CA, D, E, EA, I, IA, K, L, and M.

The following previously effective approximate analyses were carried over for this study: Horn Lake Creek, UNT to Wolf River, UNT2 to Wolf River, UNT to Grays Creek, UNT2 to Big Creek, UNT4 to Big Creek, Grays Creek Trib A, Fletcher Creek Lateral B, and Cole Creek.

For this revision, limits of detailed studies for the newly studied streams are shown in Table 1, "Scope of Study."

Table 1- Scope of Study

Flooding Source	Reach Limits
Fletcher Creek	From its confluence with the Wolf River to approximately 200 ft upstream of Back Nine Drive.
Howard Creek	From its confluence with the Loosahatchie River Drainage Canal to approximately 1,190 ft upstream of Billy Maher Road.
Ivy Creek	From its confluence with unnamed stream approximately 1,570 feet downstream of CSX Railroad to approximately 30 ft upstream of Memphis Arlington Road.
Loosahatchie River Lateral A	From its confluence with the Loosahatchie River Drainage Canal to approximately 80 ft upstream of Memphis Arlington Road.
Loosahatchie River Lateral CA	From its confluence with the Loosahatchie River Lateral A to approximately 1,830 ft upstream of Forrest Street.
Nonconnah Creek	From stream station 127,987 ft to approximately 6,800 feet upstream of Quinn Road.
North Fork Creek Lateral A	From its confluence with the North Fork Creek to approximately 1,830 ft upstream of Forrest Street.
Oliver Creek	From its confluence with the Loosahatchie River Drainage Canal to approximately 100 ft upstream of Sate Highway 70.
Wolf River Lateral C	From approximately 170 ft upstream of unnamed road (stream station 4,600 ft) to 160 ft upstream of Woodside Drive.
Wolf River Lateral F	From its confluence with the Wolf River to approximately 60 ft upstream of Johnson Road.
Wolf River Lateral G	From its confluence with the Wolf River to approximately 2,950 ft upstream of Fox Hill Road.
Wolf River Lateral H	From its confluence with the Wolf River to approximately 100 ft upstream of State Highway 72.
Wolf River Lateral J	From its confluence with the Wolf River to approximately 140 ft upstream of White Road.

2.2 Community Description

Shelby County is in the extreme southwest corner of Tennessee and has a total land area of 783 square miles. It is bordered on the north by Tipton County, Tennessee; on the east

by Fayette County, Tennessee; on the south and on the west by Crittendon County, Arkansas. The 2000 population of the county, including the City of Memphis, was 897,472 (Reference 1). Shelby County's 2000 population outside of Memphis was 650,100.

The Mississippi River, with a drainage area of 932,800 square miles at Memphis, flows along the western boundary of Shelby County. The Wolf and Loosahatchie Rivers, as well as Nonconnah Creek, drain into the Mississippi River in west Shelby County. These three basins provide all the drainage for Shelby County.

The Wolf River rises near the western edge of Tippah County, Mississippi, and flows westerly across Benton County, Mississippi, and Fayette and Shelby Counties, Tennessee, and through the City of Memphis. East of Memphis, in the vicinity of the City of Germantown and the Town of Collierville, rapid urban development has increased the flood damage potential. The Wolf River drainage basin contains about 824 square miles, of which about 210 are in Shelby County.

The Loosahatchie River rises in the steep hills of Hardeman County, Tennessee, flows westerly across Fayette and Shelby Counties, and enters the Mississippi River at the northern edge of the Memphis city limits. The Loosahatchie River drainage basin contains about 740 square miles, of which about 328 are in Shelby County.

Nonconnah Creek rises in Northern Mississippi and flows westerly through the City of Memphis into McKellar Lake, an old channel of the Mississippi River. The Nonconnah Creek drainage basin contains about 183 square miles, of which about 148 are in Shelby County.

The average high temperature is 81.2 Fahrenheit while the average low is 42.2 Fahrenheit along with an average humidity of 69%. Rainfall averages around 49 inches each year and snowfall slightly over 5 inches. Generally, winter rains are of several days duration and cover large areas, but ordinarily the intensity is not severe. Summer rains are usually of the thunderstorm type with high intensities over small areas.

2.3 Principal Flood Problems

The history of flooding on the rivers and streams within Shelby County indicates that flooding may occur during any season of the year. The majority of floods, however, have occurred during the winter and spring. Runoff from intense rainfall is the principle cause of flooding in Shelby County. However, because the Wolf River and Nonconnah Creek flow into the Mississippi River, flooding often occurs along the lower reaches of these streams because of backwater effects from high stages on the Mississippi River. This backwater flooding along Wolf River and Nonconnah Creek is mostly within the City of Memphis.

Big Creek, the Wolf River, and Nonconnah Creek have a history of frequent flooding. Published records indicate that major flooding has occurred in 1934, 1935, 1949, 1956, 1970. The flood of January 1935 is the largest known to have occurred on the Wolf River. No published records are available on the history of flooding along the tributaries of these streams. However, because of their relatively small sizes, the tributaries are subject to flash flooding from local high-intensity thunderstorms.

The USGS maintains 4 daily stage and flow gages in the county (Table 1)

Table 2. USGS Gages in Shelby County, TN

USGS Gage #	Location
07030240	LOOSAHATCHIE RIVER NEAR ARLINGTON
07031650	WOLF RIVER AT GERMANTOWN, TN
07031692	FLETCHER CREEK AT SYCAMORE VIEW ROAD AT MEMPHIS
07031740	WOLF RIVER AT HOLLYWOOD ST AT MEMPHIS, TN

2.4 Flood Protection Measures

Reaches of the channels of the Wolf River, the Loosahatchie River, Nonconnah Creek, Big Creek, North Fork Creek, and Harrington Creek have been straightened enlarged, and cleaned out by local interests through various projects since the early 1900s. Many of the tributaries of these streams have been cleaned out and channelized by various governmental agencies and private developers as increasing urbanization has taken place throughout the county. All known improvements have been accounted for in the analyses performed for this study.

Levees and floodwalls have been constructed in the City of Memphis and Shelby County area to provide protection in excess of the 100-year frequency flood on the Mississippi River, Nonconnah Creek, the Wolf River, and Big Creek. The only flood problems that exist due to flooding from the Mississippi River are in the low lying, unprotected areas of Shelby County.

Levees in the study area provide the community with some degree of protection against flooding. The criteria used to evaluate protection against the 100-year flood are 1) adequate design, including freeboard, 2) structural stability, and 3) proper operation and maintenance. Levees that do not protect against the 100-year flood are not considered in the hydraulic analysis of the 100-year floodplain.

3.0 ENGINEERING METHODS

For the flooding sources studied in detail in the community, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this study. Flood events of a magnitude, which are expected to be equaled or exceeded once on the average during any 10, 50-, 100-, or 500-year period (recurrence interval) have been selected as having special significance for floodplain management and for flood insurance rates. These events, commonly termed the 10-, 50-, 100-, and 500-year floods, have a 10, 2, 1, and 0.2 percent chance, respectively, of being equaled or exceeded during any year. Although the recurrence interval represents the long term average period between floods of a specific magnitude, rare floods could occur at short intervals or even within the same year. The risk of experiencing a rare flood increases when periods greater than 1 year are considered. For example, the risk of having a flood which equals or exceeds the 100-year flood (1 percent chance of annual exceedance) in any 50-

year period is approximately 40 percent (4 in 10), and, for any 90-year period, the risk increases to approximately 60 percent (6 in 10). The analyses reported herein reflect flooding potentials based on conditions existing in the community at the time of completion of this study. Maps and flood elevations will be amended periodically to reflect future changes.

3.1 Hydrologic Analyses

Hydrologic analyses were carried out to establish the peak discharge-frequency relationships for each flooding source studied by detailed methods affecting the community.

Frequency-discharges were developed for each basin using the USACE HEC-HMS computer program (Reference 2). The basins were divided into sub-areas, and synthetic unit hydrographs were developed for each sub-area using SCS methodology.

The contractor determined the 10-, 50-, and 100-year frequency rainfall totals from the Tennessee Department of Transportation Design Division's Drainage Manual (Reference 3). A corresponding 500-year frequency rainfall was determined from NOAA Atlas 14 (Reference 4). Rainfall losses for all basins were based on SCS Curve Number loss rates. Each HEC-HMS model was executed using the SCS Unit Hydrograph precipitation model utilizing a Type II rainfall distribution.

Initial abstraction was calculated as the default 0.2*S (0.2*((1000/CurveNumber)-10)). The rainfall excess was applied to each unit hydrograph to obtain the flood hydrograph for each sub-area. The flood hydrographs were combined and routed using the Muskingum-Cunge method.

The following paragraphs describe the reported methods used to develop the discharges for the previously studied streams.

Frequency-discharges were developed for each basin using the USACE HEC-1 computer program (Reference 5). The basins were divided into sub-areas, and synthetic unit hydrographs were developed for each sub-area using Snyder's method as described in a previous USACE report (Reference 6).

The increase in peak discharges in the upstream direction for some streams is caused by storage in overbank areas and behind hydraulic structures.

Rainfall frequency values were determined from National Weather Service Technical Papers No. 40 and No. 49 for the 10-, 50-, and 100-year frequency rainfalls (References 7 and 8). A corresponding 500-year frequency rainfall was determined by extrapolation from the 10-, 50-, and 100-year frequency rainfall depths for given durations. Rainfall losses for all basins were based on initial and uniform loss rates. Each HEC-1 model was executed using the precipitation depth-are relationship simulation which interpolates a hydrograph at each computation point based on a rainfall depth consistent with the drainage area at that point.

Initial rainfall losses range from 0.5 inch for completely urbanized areas (percent urbanization = 100), to 1.0 inch for completely rural areas (percent urbanization = 0), while the uniform loss rate varies from 0.05 to 0.10 inch per hour for the same

conditions. The rainfall excess was applied to each unit hydrograph to obtain the flood hydrograph for each sub-area. The flood hydrographs were combined and routed using the modified Puls method.

No discharges were computed for the Mississippi River. Discharges developed from previous unpublished studies of the Mississippi River by the USACE, Memphis District, were used for the 10-, 50-, and 100-year floods. The 500-year frequency flood discharges and corresponding flood elevation on the Mississippi River within the study area were not determined because of the difficulty in analyzing a specified flood frequency of this magnitude in such a large and unique drainage basin. Because of the unusually large drainage areas involved (932,800 square miles at the City of Memphis) and the relatively short period of record under regulated conditions, it is reasonable to assume that not all critical combinations of storms and runoff events have been observed. The frequency and severity of meteorological and hydrological events that could reasonably occur and cause a major flood such as the 500-year frequency flood would involve the consideration of storm transpositions, storm adjustments, seasonal variations, storm mechanics, and the determination of the feasibility of the occurrence of the events, as well as the determination of flows under natural conditions and as regulated by reservoirs at key stations on the tributaries and on the Mississippi River. In place of the 500-year storm, the project design flood has been used to represent a storm or larger magnitude than the 100-year flood.

The project design flood is a hypothetical flood developed as a guide for the construction of flood control structures on the Mississippi River. Frequency has not been assigned to the project flood; however, it is well in excess of 100-years.

A summary of the drainage area-peak discharge relationships for a portion of the streams studied by detailed methods and those redelineated streams are shown in Table 3, "Summary of Discharges."

Table 3 - Summary of Discharges

Flooding Source and Location	Drainage Area (sq. miles)	Peak Discharges (cubic feet per second)			
		10% Annual-Chance	2% Annual-Chance	1% Annual-Chance	0.2% Annual-Chance
FLETCHER CREEK					
At mouth	32.0	11,410	15,508	17,610	23,044
At Raleigh-Lagrange	27.3	11,374	15,226	17,367	23,002
At Reese Road	18.8	8,711	12,863	14,805	19,426
At Highway 177	7.3	3,616	5,332	6,138	8,151
At Chimney Rock Road	3.7	1,835	2,694	3,124	4,150
At Grove Road	1.2	655	962	1,107	1,451
HOWARD CREEK					
At mouth	4.0	1,209	1,891	2,222	3,112
At Old Brownsville Road	2.9	1,265	1,988	2,343	3,096

Table 3 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (sq. miles)	Peak Discharges (cubic feet per second)			
		10% Annual-Chance	2% Annual-Chance	1% Annual-Chance	0.2% Annual-Chance
IVY CREEK					
At mouth	0.9	539	841	986	1,334
At Old Brownsville Road	0.7	407	638	749	1,015
LOOSAHATCHIE RIVER LATERAL A					
At mouth	2.2	1,310	1,928	2,228	2,968
At Highway 70	1.2	874	1,265	1,463	1,980
At Memphis-Arlington	0.5	403	609	708	941
LOOSAHATCHIE RIVER LATERAL CA					
At mouth	0.4	414	623	722	957
NONCONNAH CREEK					
At study limit (0.97 mile downstream of Byhalia Road	7.5	1,848	2,818	3,278	4,370
At Byhalia Road	6.2	1,632	2,484	2,890	3,841
At Quinn Road	1.9	569	870	1,013	1,358
NORTH FORK CREEK LATERAL A					
At mouth	3.4	1,173	1,775	2,110	2,826
At Kerrville-Rossmark Road	1.0	381	592	700	959
OLIVER CREEK					
At mouth	4.6	2,058	3,234	3,796	5,126
At Highway 70	2.4	1,270	1,954	2,283	3,035
WOLF RIVER LATERAL C					
At Unnamed Road	0.7	457	746	886	1,208
At Farmington Blvd	0.6	417	684	813	1,123
WOLF RIVER LATERAL F					
At mouth	1.7	1,173	1,805	2,023	2,746
At Dogwood Road	1.1	766	1,197	1,345	1,872
WOLF RIVER LATERAL G					
At mouth	1.8	1,609	2,233	2,684	3,475

Table 3 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (sq. miles)	Peak Discharges (cubic feet per second)			
		10% Annual-Chance	2% Annual-Chance	1% Annual-Chance	0.2% Annual-Chance
WOLF RIVER LATERAL H					
At mouth	5.1	1,953	2,923	3,375	4,546
At Frank Road	2.6	1,086	1,626	1,882	2,605
At Railroad (CSX)	0.2	210	312	359	473
WOLF RIVER LATERAL J					
At mouth	2.8	1,833	2,663	3,028	3,890
At Peterson Lake Road	2.1	1,587	2,313	2,654	3,460
The following discharges were published in the previously effective FIS.					
BEAR CREEK					
At mouth	7.5	3,233	4,084	4,432	5,425
BEAR CREEK LATERAL A					
At West Union Road	0.4	1,357	1,749	1,918	2,400
Just upstream of Crooked Creek	33.0	6,234	8,255	9,195	11,581
BEAVER CREEK					
At mouth	149.0	20,900	34,700	39,300	52,800
BIG CREEK DRAINAGE CANAL					
At mouth	154.0	20,944	26,476	28,538	34,904
Just upstream of Jakes Creek	112.0	14,122	19,012	21,213	27,237
Just upstream of North Fork Creek	69.9	9,622	12,013	13,055	16,599
Just upstream of Crooked Creek	33.0	6,234	8,255	9,195	11,581
BIG CREEK DRAINAGE CANAL LATERAL A					
At mouth	4.1	1,670	2,173	2,387	2,780
CASPER CREEK					
At mouth	5.5	1,816	2,862	3,265	4,400
CROOKED CREEK DRAINAGE CANAL					
At mouth	18.9	3,929	5,787	6,634	8,600

Table 3 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (sq. miles)	Peak Discharges (cubic feet per second)			
		10% Annual-Chance	2% Annual-Chance	1% Annual-Chance	0.2% Annual-Chance
CROOKED CREEK LATERAL A					
At mouth	2.7	716	929	1,021	1,200
CROOKED CREEK LATERAL B					
At mouth	2.5	1,170	1,660	1,925	2,500
At Brooks Road	9.2	8,530	11,220	12,590	15,990
CYPRESS CREEK					
At Levi Street	6.4	4,000	5,111	5,707	7,201
At Neely Road	1.3	6,641	4,814	5,413	6,887
CYPRESS CREEK DRAINAGE CANAL					
At mouth	62.5	14,600	20,100	22,500	28,200
DAYS CREEK					
At Brooks Road	9.2	8,530	11,220	12,590	15,990
EAST BEAVER CREEK					
At mouth	65.4	7,500	11,400	13,700	19,000
FLETCHER CREEK LATERAL A					
At mouth	10.7	4,943	6,480	7,163	8,790
Just upstream of confluence of Lateral C	6.4	3,167	4,153	4,600	5,741
FLETCHER CREEK LATERAL B					
At mouth	4.0	2,012	2,577	2,829	3,452
FLETCHER CREEK LATERAL BB					
At County Road	1.0	705	970	1,080	1,290
FLETCHER CREEK LATERAL C					
At mouth	2.0	1,511	1,918	2,090	2,518
FLETCHER CREEK TRIBUTARY D					
At U.S. Highway 70	0.5	470	605	655	760

Table 3 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (sq. miles)	Peak Discharges (cubic feet per second)			
		10% Annual-Chance	2% Annual-Chance	1% Annual-Chance	0.2% Annual-Chance
GRAY'S CREEK					
At Raleigh-LaGrange Road	37.1	6,755	7,325	7,955	9,230
At Macon Road	31.7	6,510	8,195	8,880	10,300
At CSX Railroad	28.4	6,780	8,540	9,220	10,670
At James Road	8.2	4,590	5,870	6,445	7,390
At mouth	9.9	5,250	6,478	9,654	8,057
HALL CREEK					
At mouth	6.3	4,300	6,100	6,850	8,700
HARRINGTON CREEK					
At Raleigh-LaGrange Road	8.1	5,490	7,066	7,738	9,307
At Stage Road	4.4	2,664	3,443	3,765	4,390
At North Street	2.4	1,756	2,300	2,538	3,045
HARRINGTON CREEK LATERAL A					
At confluence with Harrington Creek	1.9	1,054	1,321	1,415	1,593
At Stage Road	0.4	848	1,108	1,211	1,420
HARRINGTON CREEK LATERAL B					
At confluence with Lateral A	1.1	925	12,08	1,320	1,547
HARRINGTON CREEK LATERAL C					
At confluence with Harrington Creek	1.0	729	937	1,019	1,168
HARRINGTON CREEK LATERAL D					
At confluence with Lateral C	0.5	576	750	819	959
HARRINGTON CREEK LATERAL E					
At confluence with Harrington Creek	1.7	1,028	1,328	1,522	1,825

Table 3 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (sq. miles)	Peak Discharges (cubic feet per second)			
		10% Annual-Chance	2% Annual-Chance	1% Annual-Chance	0.2% Annual-Chance
HARRINGTON CREEK LATERAL F					
At mouth	1.5	1,154	1,503	1,661	2,041
At CSX Railroad	2.6	1,547	1,990	2,217	2,744
Harrington Creek	1.0	729	937	1,019	1,168
HOWARD ROAD OUTFALL					
At Quina Road	3.1	2,231	2,925	3,326	4,284
At Stout Road	0.4	338	444	633	20
JAKES CREEK					
At mouth	8.9	3,884	4,824	5,248	6,200
JOHN'S CREEK					
At Cottonwood Road	25.3	11,594	14,040	15,172	17,435
At Winchester Road	22.1	9,901	11,849	12,763	14,612
At Shelby Drive	5.4	2,298	2,840	3,160	3,909
JOHN'S CREEK LATERAL A					
At mouth	9.9	5,250	6,478	9,654	8,057
JOHN'S CREEK LATERAL AA					
At mouth	1.9	1,401	1,843	2,070	2,628
JOHN'S CREEK LATERAL AB					
At mouth	1.6	1,129	1,485	1,668	2,117
JOHN'S CREEK LATERAL B					
At CSX Railroad	2.6	1,547	1,990	2,217	2,744
LOOSAHATCHEE RIVER DRAINAGE CANAL					
At mouth	742.0	33,800	51,500	59,500	78,000
Just downstream of Big Creek	570.0	32,900	47,700	54,300	70,000
Just upstream of Cypress Creek	423.0	35,000	52,000	59,900	78,900
Just upstream of Beaver Creek	265.0	33,600	47,200	52,800	66,200

Table 3 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (sq. miles)	Peak Discharges (cubic feet per second)			
		10% Annual-Chance	2% Annual-Chance	1% Annual-Chance	0.2% Annual-Chance
LOOSAHATCHIE RIVER LATERAL C					
At mouth	1.4	1,361	1,689	1,839	2,181
At confluence of Lateral CA	1.0	505	637	700	832
MARYS CREEK					
At mouth	16.0	2,185	2,839	3,104	3,649
At Collierville-Arlington Road	4.2	1,692	2,214	2,426	2,851
MISSISSIPPI RIVER					
At Memphis Southern corporate limits	932,800.0	1,435,000	1,810,000	1,960,000	*
NONCONNAH CREEK					
At Horn Lake Road	180.3	32,963	42,892	47,214	53,944
At Nonconnah Boulevard	147.5	27,201	35,229	39,732	48,122
Just upstream of Howard Road Outfall	77.6	15,168	18,910	20,571	24,980
At Winchester Road	68.8	14,174	17,803	19,572	23,586
Just downstream of Lateral B	46.1	10,246	14,445	16,055	21,052
At Quinn Road	0.8	1,154	1,154	1,1671	2,048
NONCONNAH CREEK LATERAL C					
At confluence with Nonconnah Creek	0.7	728	957	1,075	1,365
NONCONNAH CREEK LATERAL B					
At mouth	35.9	9,792	12,572	13,992	17,577
NONCONNAH CREEK LATERAL BA					
At mouth	13.2	5,486	7,690	8,640	10,931
NONCONNAH CREEK LATERAL J					
At mouth	1.1	1,056	1,390	1,561	1,852
At Winchester Road	0.8	675	888	997	1,265
NORTH FORK CREEK					
At mouth	17.1	4,547	5,969	6,594	8,131
At U.S. Route 51	10.5	459	570	619	733

Table 3 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (sq. miles)	Peak Discharges (cubic feet per second)			
		10% Annual-Chance	2% Annual-Chance	1% Annual-Chance	0.2% Annual-Chance
ROYSTER CREEK					
At Mouth	18.2	7,624	10,256	11,262	13,016
TENMILE CREEK					
At Getwell Road	7.8	6,654	8,091	8,827	10,640
At Baines Road	3.0	2,316	2,899	3,198	3,845
TENMILE CREEK LATERAL A					
At Winchester Road	0.8	675	888	997	1,265
WEST BEAVER CREEK					
At mouth	27.8	8,204	11,258	12,927	16,596
WOLF RIVER					
At Mouth	821.1	24,441	31,402	34,193	44,804
At Jackson Avenue	783.0	26,320	33,298	36,040	46,085
At Walnut Grove Road	715.8	17,198	25,236	30,593	46,634
At Germantown Parkway	704.8	17,411	25,335	30,751	46,840
At Houston Levee Road	629.6	15,367	25,522	31,040	47,132
At Collierville - Arlington Road	604.7	25,470	25,723	31,356	47,494
WOLF RIVER LATERAL A					
At Mouth	1.9	590	770	850	1,000
WOLF RIVER LATERAL AA					
At Mouth	1.0	1,110	1,440	1,580	1,840
WOLF RIVER LATERAL B					
At Mouth	0.9	440	580	630	730
WOLF RIVER LATERAL BA					
At Mouth	0.3	340	450	500	580
WOLF RIVER LATERAL CA					
At Mouth	0.6	535	650	690	800
WOLF RIVER LATERAL D					
At Mouth	1.1	600	770	840	970
WOLF RIVER LATERAL E					
At Dogwood Road	2.4	1,350	1,690	1,820	2,100
WOLF RIVER LATERAL EA					
At Mouth	0.5	610	800	870	1,800

Table 3 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (sq. miles)	Peak Discharges (cubic feet per second)			
		10% Annual-Chance	2% Annual-Chance	1% Annual-Chance	0.2% Annual-Chance
WOLF RIVER LATERAL I					
Just upstream of mouth	3.4	730	960	1,050	1,240
WOLF RIVER LATERAL IA					
At Shelton Road	1.6	900	1,109	1,171	1,306
WOLF RIVER LATERAL K					
About 0.7 mile upstream of mouth	0.7	1,329	1,697	1,837	2,135
At mouth	0.8	750	991	1,090	1,278
WOLF RIVER LATERAL L					
At Fletcher Road	3.9	1,641	2,119	2,315	2,717
At U.S. Highway 72	1.7	1,798	2,438	2,698	3,220
WOLF RIVER LATERAL M					
At Mouth	2.0	800	1,000	1,070	1,220

3.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the elevations of floods of the selected recurrence intervals. Users should be aware that flood elevations shown on the Flood Insurance Rate Map (FIRM) represent rounded whole-foot elevations and may not exactly reflect the elevations shown on the Flood Profiles or in the Floodway Data table in the FIS report. Flood elevations shown on the FIRM are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to us the flood elevation data presented in this FIS report in conjunction with the data shown on the FIRM.

Taylor Engineering conducted detailed hydraulic studies for thirteen flooding sources, Fletcher Creek, Howard Creek, Ivy Creek, Loosahatchie River Lateral A, Loosahatchie River Lateral CA, Nonconnah Creek, North Fork Creek Lateral A, Oliver Creek, Wolf River Lateral C, Wolf River Lateral F, Wolf River Lateral G, Wolf River Lateral H, and Wolf River Lateral J to determine their 10-, 2-, 1- and 0.2-percent annual chance flood elevations.

Cross section geometries were obtained from a combination of digital terrain data provided by the State of Tennessee and field surveys. Structure geometry was based on field verified existing data or new field surveys. Selected cross sections were field surveyed along the streams to determine channel geometries between bridges and culverts.

Water-surface elevations of floods of the selected recurrence intervals were computed using the USACE HEC-RAS step-backwater computer program (Reference 9). For the majority of flooding sources, backwater computations were started at normal depth. Nonconnah Creek and Wolf River Lateral C were exceptions; the restudied reaches were tied into the effective profiles using known water surface elevations.

Channel and overbank roughness factors (Manning's "n" values) used in hydraulic computations were determined based on field investigations and aerial photography. For all new detailed studies, the channel "n" values ranged from 0.015 to 0.060, and the overbank "n" values ranged from 0.025 to 0.20.

The following section discusses previous detailed hydraulic analyses carried over to this study.

For the 2007 study, the study contractor performed the hydraulic analyses for Harrington Creek Lateral C, D (hydrologic analysis adopted from previous City of Bartlett FIS) and Wolf River Lateral J under FEMA Contract No. EMA-2002-CO001A, Task Order 002. The contractor completed this work in September 2005. Water-surface elevations of floods of the selected recurrence intervals were computed using the USACE HEC-RAS step-backwater computer program (Reference 10).

Cross section data for the backwater analyses were obtained from topographic maps compiled from aerial photographs and channel sections obtained by field survey (Reference 11).

Water-surface elevations of floods of the selected recurrence intervals were computed using the USACE HEC-2 step-backwater computer program (Reference 12). Nonconnah Creek and the Wolf River are tributaries of the Mississippi River. Big Creek is a tributary of the Loosahatchie River. Backwater computations for these three streams were started at normal depth. It is unlikely that the 100-year floods on these streams would occur at the time a 100-year flood occurs on the Mississippi River. Backwater computations for the other streams were also started at normal depth.

Manning's n-values used in hydraulic computations were field investigated and delineated on USGS Digital Orthophoto Quarter Quads (DOQQ) for both channel and overbank areas. The channel "n" values ranged from 0.015 to 0.065, and the overbank "n" values ranged from 0.050 to 0.120.

Flood profiles were drawn showing the computed water-surface elevations for floods of the selected recurrence intervals

The hydraulic analyses for this study were based on unobstructed flow. The flood elevations shown on the Flood Profiles (Exhibit 1) are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

3.3 Vertical Datum

All FIS reports and FIRMs are referenced to a specific vertical datum. The vertical datum provides a starting point against which flood, ground, and structure elevations can be referenced and compared. All flood elevations shown in this FIS report and on the FIRM

are referenced to NAVD88. Structure and ground elevations in the community must, therefore, be referenced to NAVD88.

For more information on NAVD88, see the FEMA publication entitled Converting the National Flood Insurance Program to the North American Vertical Datum of 1988 (FEMA, June 1992), or contact the Vertical Network Branch, National Geodetic Survey, Coast and Geodetic Survey, National Oceanic and Atmospheric Administration, Rockville, Maryland 20910 (Internet address http://www.ngs.noaa.gov).

Temporary vertical monuments are often established during the preparation of a flood hazard analysis for the purpose of establishing local vertical control. Although these monuments are not shown on the FIRM, they may be found in the Technical Support Data Notebook associated with the FIS report and FIRM for this community. Interested individuals may contact FEMA to access these data.

4.0 FLOODPLAIN MANAGEMENT APPLICATIONS

The NFIP encourages State and local governments to adopt sound floodplain management programs. Therefore, each FIS provides 1-percent-annual-chance flood elevations and delineations of the 1- and 0.2-percent-annual-chance floodplain boundaries and 1-percent-annual-chance floodway to assist communities in developing floodplain management measures. This information is presented on the FIRM and in many components of the FIS report, including Flood Profiles, Floodway Data Table and Summary of Stillwater Elevations Table. Users should reference the data presented in the FIS report as well as additional information that may be available at the local map repository before making flood elevation and/or floodplain boundary determinations.

4.1 Floodplain Boundaries

To provide a national standard without regional discrimination, the 1-percent-annual-chance flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2-percent-annual-chance flood is employed to indicate additional areas of flood risk in the community. For each stream studied by detailed methods, the 1- and 0.2-percent-annual-chance floodplain boundaries have been delineated using the flood elevations determined at each cross section. In this Shelby County and Incorporated Areas FIS revision, the boundaries were interpolated using points and breaklines at a scale of 1:2400, 1:1200, and 1:600 with a contour interval of 2-10 feet (Reference 13).

The 1- and 0.2-percent-annual-chance floodplain boundaries are shown on the FIRM (Exhibit 2). On this map, the 1-percent-annual-chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (Zones A, AE, V, and VE); and the 0.2-percent-annual-chance floodplain boundary corresponds to the boundary of areas of moderate flood hazards. In cases where the 1- and 0.2-percent-annual-chance floodplain boundaries are close together, only the 1-percent-annual-chance floodplain boundary has been shown. Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

For the streams studied by approximate methods, only the 1-percent-annual-chance floodplain boundary is shown on the FIRM (Exhibit 2).

4.2 Floodways

Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard. For purposes of the NFIP, a floodway is used as a tool to assist local communities in this aspect of floodplain management. Under this concept, the area of the 1-percent-annual-chance floodplain is divided into a floodway and a floodway fringe. The floodway is the channel of a stream, plus any adjacent floodplain areas, that must be kept free of encroachment so that the 1-percent-annual-chance flood can be carried without substantial increases in flood heights. Minimum Federal standards limit such increases to 1.0 foot, provided that hazardous velocities are not produced. The floodways in this study are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway studies.

The floodway presented in this FIS report and on the FIRM was computed for certain stream segments on the basis of equal conveyance reduction from each side of the floodplain. Floodway widths were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. The results of the floodway computations have been tabulated for selected cross sections (Table 4). In cases where the floodway and 1-percent-annual-chance floodplain boundaries are either close together or collinear, only the floodway boundary has been shown. No floodway was computed for the Mississippi River.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Bear Creek								
A	0.11	78	758	5.8	249.3	236.6[3]	236.6	0.0
B	1.21	56	519	8.5	257.6	257.6	258.1	0.5
C	1.83	820[2]	1,080	2.6	265.1	265.1	265.9	0.8
D	2.30	44	375	7.2	272.2	272.2	273.0	0.8
E	2.79	210	784	3.4	278.8	278.8	279.8	1.0
F	3.63	240	1,074	2.3	287.2	287.2	288.1	0.9
G	4.24	360	1,293	1.9	298.7	298.7	299.7	1.0
H	4.84	50	478	5.1	306.6	306.6	307.4	0.8
Bear Creek Lateral A								
A	0.13	820[2]	1,080	2.6	265.1	265.1	265.9	0.8
B	0.62	340	1,836	1.0	275.7	275.7	276.2	0.5
C	1.54	150	437	2.8	291.9	291.9	292.9	1.0

[1]Miles above mouth

[2]Combined floodway width of Bear Creek and Bear Creek Lateral A

[3]Elevations computed without consideration of backwater effects from Big Creek Drainage Canal

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

BEAR CREEK - BEAR CREEK LATERAL A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Big Creek Drainage Canal								
A	0.25	2,200	17,949	1.6	234.1	229.2[2]	230.2	1.0
B	0.89	135	3,525	8.1	234.1	230.8[2]	231.5	0.7
C	1.87	1,318	11,130	2.5	234.1	233.9[2]	234.9	1.0
D	2.64	149	3,863	7.3	235.9	235.9	236.9	1.0
E	2.71	169	3,962	7.1	236.4	236.4	237.2	0.8
F	3.61	1,513	12,046	2.3	239.2	239.2	240.1	0.9
G	4.32	276	4,815	5.8	241.5	241.5	242.2	0.7
H	5.00	1183	7429	3.8	243.7	243.7	244.6	0.9
I	5.93	600	5,823	4.9	247.2	247.2	248.2	1.0
J	6.55	731	7,095	3.0	249.4	249.4	250.4	1.0
K	7.20	186	3,798	5.6	251.1	251.1	252.1	1.0
L	7.78	173	3,828	5.5	253.4	253.4	254.3	0.9
M	8.45	130	3,136	4.5	256.5	256.5	257.4	0.9
N	8.91	325	5,089	2.8	257.3	257.3	258.1	0,8
0	9.37	550	3,229	4.3	257.8	257.8	258.8	1.0
P	9.57	110	2,070	6.8	258.5	258.5	259.4	0.9
Q	9.99	700	4,483	2.9	261.7	261.7	262.4	0.7
R	10.62	1,200	9,376	1.4	262.6	262.6	263.5	0.9
S	11.33	350	2,433	5.4	266.7	266.7	267.4	0.7
T	11.85	880	4,306	3.0	269.3	269.3	270.0	0.7

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effects from Mississippi River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

BIG CREEK DRAINAGE CANAL

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Big Creek Drainage Canal (continued)								
U	12.60	1,350	4,995	2.6	272.1	272.1	272.5	0.4
V	13.18	1,273	4,392	2.9	274.5	274.5	274.8	0.3
W	13.69	1,580	4,840	2.6	276.7	276.7	277.4	0.7
X	14.22	985	2,245	5.7	281.1	281.1	281.2	0.1
Y	14.64	2,501	7,815	1.6	284.4	284.4	285.3	0.9
Z	15.19	2,629	8,695	1.1	286.1	286.1	287.1	1.0
AA	15.61	1,093	2,487	3.7	287.4	287.4	288.4	1.0
AB	16.00	81	1,137	8.1	291.9	291.9	292.3	0.4
AC	16.60	1,510	3,491	2.7	295.7	295.7	296.7	1.0
AD	17.13	2,600	5,882	1.6	300.0	300.0	300.3	0.3
AE	17.63	90	1,265	7.6	303.3	303.3	304.2	0.9
AF	18.57	128	1,305	7.0	311.3	311.3	311.5	0.2
AG	19.01	670	3,093	3.0	314.4	314.4	315.4	1.0
Big Creek Lateral A								
A	0.46	52	351	6.8	239.9	235.6[2]	235.6	0.0
B	1.07	334	1,311	1.8	252.1	252.1	252.4	0.3
C	1.50	133	768	2.9	255.6	255.6	256.3	0.7

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effect from Big Creek Drainage Canal

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

BIG CREEK DRAINAGE CANAL
BIG CREEK LATERAL A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Casper Creek								
A	0.47	560	2,140	1.5	276.4	276.4	277.2	0.8
B	1.05	70	495	9.1	283.9	283.9	283.9	0.0
C	1.21	910	3,460	1.3	284.8	284.8	285.0	0.2
D	1.94	465	1,865	1.5	291.3	291.3	292.3	1.0
E	2.79	550	1,515	1.6	302.9	302.9	303.3	0.4
F	3.12	535	2,045	1.2	309.2	309.2	309.2	0.0
G	3.70	235	580	2.7	319.2	319.2	319.2	0.0
Crooked Creek Drainage Canal								
A	1.31	3,280	17,156	0.4	292.0	292.0	292.2	0.2
B	2.64	3,450	6,197	1.0	300.1	300.1	300.9	0.8
C	3.37	2,970	5,526	1.0	304.4	304.4	304.6	0.2
D	5.13	1,040	2,371	0.7	320.9	320.9	320.9	0.0
E	6.16	215	903	1.5	341.6	341.6	342.6	1.0
F	6.69	76	374	3.5	356.0	356.0	356.5	0.5

[1]Miles above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

CASPER CREEK - CROOKED CREEK DRAINAGE CANAL

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Crooked Creek Lateral A								
A	0.76	440	1,649	0.6	313.6	313.6	314.6	1.0
B	1.45	360	337	1.5	322.1	322.1	322.1	0.0
C	1.66	330	216	2.4	324.3	324.3	324.3	0.0
Crooked Creek Lateral B								
A	0.78	1,670	2,173	0.9	318.7	318.7	318.9	0.2
B	1.81	1,130	1,982	1.5	338.1	338.1	338.1	0.0
C	2.10	500	660	4.4	340.2	340.2	340.2	0.0
Cypress Creek								
A	0.19	175	1,265	7.7	225.0	202.6[2]	202.6	0.0
B	0.62	98	899	10.8	225.0	218.7[2]	218.8	0.0
C	0.64	100	1,229	7.9	225.0	220.6[2]	220.7	0.0
D	0.90	92	1,186	8.2	225.0	222.5[2]	222.6	0.0
E	1.12	113	1,270	7.6	226.1	226.1	227.1	1.0
F	1.56	831	8,063	1.2	228.9	228.9	229.7	0.8
G	2.05	511	3,397	3.0	230.2	230.2	231.1	0.9

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effects from Mississippi River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

CROOKED CREEK LATERAL A
CROOKED CREEK LATERAL B - CYPRESS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Cypress Creek (Continued)								
H	2.52	267	1,898	3.0	235.4	235.4	235.9	0.5
I	3.12	58	768	7.4	237.8	237.8	238.8	1.0
J	3.48	54	593	9.6	238.4	238.4	239.4	1.0
K	3.53	54	602	9.5	239.1	239.1	240.1	1.0
L	3.70	46	453	13.0	239.8	239.8	240.8	1.0
M	4.39	293	1,542	3.8	252.2	252.2	253.2	1.0
N	4.69	36	457	11.8	254.7	254.7	255.7	1.0
O	5.06	32	349	15.5	257.7	257.7	257.7	0.0
Cypress Creek Drainage Canal								
A	0.93	3,790	35,036	0.6	264.9	264.9	265.9	1.0
B	1.40	2,740	22,205	1.0	266.6	266.6	267.6	1.0
C	1.76	2,350	18,410	1.2	267.4	267.4	268.4	1.0
D	3.17	2,780	17,259	1.2	273.4	273.4	274.1	0.7
E	3.91	1,740	13,139	1.6	277.3	277.3	278.2	0.9
F	5.18	2,010	12,479	1.7	282.6	282.6	283.6	1.0
G	6.07	2,150	16,103	1.3	289.5	289.5	290.5	1.0
H	6.84	920	9,495	2.3	293.1	293.1	294.1	1.0

[1]Miles above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

CYPRESS CREEK - CYPRESS CREEK DRAINAGE CANAL

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Days Creek								
A	0.18	100	874	14.4	240.3	227.3[2]	227.3	0.0
B	0.48	80	931	13.5	240.3	233.4[2]	233.4	0.0
C	0.54	118	947	13.3	240.3	233.8[2]	233.8	0.0
D	0.59	90	1,036	12.2	240.3	235.1[2]	235.1	0.0
E	0.81	170	1,891	6.7	242.2	242.2	242.2	0.0
F	1.04	95	1,488	7.8	244.9	244.9	245.9	1.0
G	1.37	88	954	12.2	244.9	244.9	245.9	1.0
H	1.88	105	1,001	11.6	247.8	247.8	248.2	0.4
I	1.96	80	990	8.2	249.6	249.6	249.8	0.2
J	2.47	69	1,102	7.4	256.7	256.7	257.1	0.4
K	2.71	50	792	10.2	256.9	256.9	257.4	0.5
L	3.07	50	604	13.4	258.1	258.1	258.8	0.7
M	3.09	50	604	13.4	258.1	258.1	259.1	1.0
N	3.51	50	443	12.9	261.3	261.3	261.8	0.5

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effects from Nonconnah Creek

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

DAYS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Fletcher Creek								
A	3,279	169	1,993	9.0	245.0	245.0	245.6	0.6
B	5,310	166	2,315	7.5	248.7	248.7	249.2	0.5
C	7,519	104	1,749	10.0	250.4	250.4	251.2	0.8
D	10,890	102	1,491	12.1	252.7	252.7	253.5	0.8
E	16,137	347	4,829	3.2	258.8	258.8	259.6	0.8
F	20,368	93	1,557	9.5	262.3	262.3	263.0	0.7
G	28,225	87	1,153	6.6	271.3	271.3	271.9	0.6
H	29,256	49	603	10.2	273.4	273.4	273.7	0.3
I	31,409	86	947	6.5	278.7	278.7	279.1	0.4
J	34,099	52	515	11.9	282.7	282.7	283.0	0.3
K	35,865	70	692	8.9	289.4	289.4	289.4	0.0
L	36,241	126	925	3.5	290.5	290.5	290.6	0.1
M	43,165	86	590	5.3	310.1	310.1	310.1	0.0
N	46,218	106	360	4.1	322.7	322.7	322.7	0.0
O	46,929	84	490	3.0	324.7	324.7	324.7	0.0
P	48,332	59	289	5.1	325.9	325.9	325.9	0.0
Q	48,938	47	265	5.6	328.1	328.1	328.1	0.0
R	50,553	56	197	5.6	332.9	332.9	333.0	0.1
S	53,568	66	326	3.4	349.5	349.5	349.6	0.1
T	56,381	29	98	5.5	359.7	359.7	359.8	0.1
U	56,569	88	224	2.4	360.7	360.7	360.7	0.0
V	57,692	41	160	3.3	366.0	366.0	366.0	0.0

[1]Feet above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

FLETCHER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Fletcher Creek Lateral A								
A	0.14	179	2,150	3.3	268.4	268.4	268.4	0.0
B	0.37	134	1,706	4.2	268.8	268.8	268.8	0.0
C	0.75	141	1,621	4.4	269.6	269.6	269.6	0.0
D	1.11	164	1,341	5.3	273.0	273.0	273.0	0.0
E	1.29	59	690	4.0	274.7	274.7	274.7	0.0
F	1.92	46	392	7.0	282.4	282.4	282.4	0.0
G	2.29	92	413	4.9	288.9	288.9	289.2	0.3
H	3.38	25	126	7.0	308.4	308.4	309.1	0.7
Fletcher Creek Lateral B								
A	0.30	150	746	3.8	259.8	257.7[2]	258.7	1.0
B	0.34	76	395	7.2	259.8	258.2[2]	259.0	0.8
C	0.54	108	544	5.2	261.0	261.0	262.0	1.0
D	0.93	116	654	4.3	263.8	263.8	264.6	0.8
E	1.17	90	592	4.8	268.6	268.6	269.2	0.6
F	1.37	100	613	4.6	270.9	270.9	271.7	0.8
G	1.48	241	716	4.0	272.8	272.8	273.3	0.5
H	2.10	160	654	4.3	282.6	282.6	283.4	0.8
I	2.65	240	855	3.1	292.9	292.9	293.9	1.0
J	2.97	63	462	5.7	299.0	299.0	299.7	0.7

[1]Miles above mouth

[2]Elevations computed without considering backwater effects from Fletcher Creek

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

FLETCHER CREEK LATERAL A - FLETCHER CREEK LATERAL B

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Fletcher Creek Lateral B (continued)								
K	3.16	68	588	4.5	302.9	302.9	303.8	0.9
L	3.52	175	751	3.5	310.0	310.0	310.6	0.6
M	3.81	82	252	2.6	318.0	318.0	318.8	0.8
N	3.98	58	231	2.9	320.9	320.9	321.5	0.6
Fletcher Creek Lateral BB								
A	0.21	71	209	5.2	292.9	292.9	293.7	0.8
B	0.47	45	241	4.5	298.1	298.1	299.0	0.9
C	0.89	199	760	1.1	314.9	314.9	315.5	0.6
Fletcher Creek Lateral C								
A	0.15	54	428	4.9	273.1	271.3[2]	271.3	0.0
B	0.79	37	236	6.4	280.3	280.3	280.5	0.2
C	1.04	26	211	7.2	286.4	286.4	286.9	0.5
D	1.29	90	283	3.5	289.6	289.6	289.9	0.3
E	1.80	13	39	3.8	294.0	294.0	294.0	0.0
F	1.94	11	19	7.8	297.2	297.2	297.2	0.0

[1]Miles above mouth

[2]Elevations computed without considering backwater effects from Fletcher Creek

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

FLETCHER CREEK LATERAL B - FLETCHER CREEK LATERAL BB
FLETCHER CREEK LATERAL C

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Gray's Creek								
A	0.89	1,371	7,465	1.3	276.6	276.6	277.5	0.9
B	1.60	750	3,634	2.2	277.7	277.7	278.6	0.9
C	1.98	107	1,589	5.0	277.9	277.9	278.8	0.9
D	2.97	98	1,343	6.6	282.6	282.6	282.9	0.3
E	3.74	160	1,734	5.1	289.4	289.4	289.5	0.1
F	4.17	140	1,663	7.9	292.8	292.8	292.8	0.0
G	5.36	197	2,754	3.4	299.8	299.8	300.5	0.7
H	5.88	100	1,624	5.7	304.4	304.4	304.8	0.4
I	6.42	200	3,604	2.6	305.6	305.6	306.0	0.4
J	6.58	200	1,748	7.8	305.6	305.6	305.8	0.3
K	7.69	1,359	6,214	6.3	315.1	315.1	316.0	0.9
L	8.73	120	1,590	5.6	322.8	322.8	323.4	0.6
M	9.55	120	1,308	6.8	330.5	330.5	330.9	0.4
N	10.12	160	2,220	2.9	334.2	334.2	334.9	0.7
0	10.79	100	1,285	4.9	338.1	338.1	338.7	0.5
P	11.43	100	1,185	5.0	342.5	342.5	342.8	0.3
Hall Creek								
A	0.67	230	1,486	4.6	271.9	271.9	272.9	1.0
B	1.44	710	3,006	2.3	285.9	285.9	286.9	1.0
C	1.57	100	1,164	5.8	287.3	287.3	288.3	1.0
D	1.82	60	683	6.2	291.8	291.8	292.8	1.0

[1]Miles above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

GRAY'S CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Harrington Creek								
A	0.75	100	1,373	5.6	241.1	239.0[2]	240.0	1.0
B	1.48	88	1,091	7.1	246.5	246.5	247.5	1.0
C	1.95	450	2,247	3.4	250.7	250.7	251.6	0.9
D	2.81	140	1,402	3.9	255.7	255.7	256.7	1.0
E	3.16	56	391	9.6	257.4	257.4	258.1	0.7
F	3.45	76	513	7.3	260.9	260.9	261.1	0.2
G	4.12	133	417	6.1	267.6	267.6	268.4	0.8
H	4.54	41	140	7.2	271.8	271.8	272.0	0.2
Harrington Creek Lateral A								
A	0.03	80	523	2.7	252.8	251.6[3]	252.6	1.0
B	0.39	790	2,782	0.5	255.3	255.3	256.1	0.8
C	0.55	190	660	1.8	257.5	257.5	258.5	1.0
D	0.82	50	236	5.1	264.8	264.8	265.6	0.8
E	1.01	260	1,503	0.8	269.1	269.1	269.4	0.3
F	1.19	60	220	5.7	269.8	269.8	270.5	0.7

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effect from Wolf River

[3]Elevations computed without consideration of backwater effect from Harrington Creek

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

HARRINGTON CREEK
HARRINGTON CREEK LATERAL A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Harrington Creek Lateral B								
A	0.03	250	571	2.3	257.8	257.0[2]	257.9	0.9
B	0.28	140	421	3.1	261.5	261.5	262.3	0.8
C	0.50	40	371	3.6	266.3	266.3	267.2	0.9
D	0.71	30	142	8.0	267.7	267.7	268.5	0.8
E	0.87	100	449	2.5	270.8	270.8	271.6	0.8
Harrington Creek Lateral C								
A	0.11	57	204	2.7	257.2	257.2	257.2	0.0
B	0.31	41	169	3.3	258.7	258.7	258.7	0.0
C	0.46	28	73	7.6	259.5	259.5	259.6	0.1
D	0.62	17	80	6.9	264.9	264.9	264.9	0.0
E	0.66	19	86	6.4	267.7	267.7	267.7	0.0
F	0.84	9	44	12.6	273.3	273.3	273.3	0.0
G	1.04	159	415	1.3	279.9	279.9	280.0	0.1

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effect from Harrington Creek Lateral A.

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

HARRINGTON CREEK LATERAL B - HARRINGTON CREEK LATERAL C

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Harrington Creek Lateral D								
A	0.11	16	150	5.5	268.5	268.5	269.2	0.7
B	0.27	68	440	1.9	275.3	275.3	276.1	0.8
C	0.38	29	162	5.1	277.4	277.4	276.6	0.8
Harrington Creek Lateral E								
A	0.06	120	332	4.6	268.0	263.2	264.2	1.0
B	0.36	330	1,322	1.2	270.0	270.0	270.4	0.4
C	0.51	60	343	4.5	270.1	270.1	270.6	0.5

[1]Miles above mouth

[2] Elevations computed without consideration of backwater effect from Harrington Creek.

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

HARRINGTON CREEK LATERAL D - HARRINGTON CREEK LATERAL E

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Harrington Creek Lateral F								
A	1,003	64	202	8.2	272.0	272.0	272.0	0.0
Howard Creek								
A	9,151	261	820	2.9	248.3	248.3	249.0	0.7
B	10,124	139	1,106	2.1	254.2	254.2	254.9	0.7
C	12,033	307	908	1.9	254.7	254.7	255.6	0.9
Howard Road Outfall								
A	2,270	420	3,103	1.1	284.5	284.5	284.8	0.3
B	7,075	343	704	4.5	291.9	291.9	292.1	0.2
C	8,554	338	666	4.8	296.7	296.7	297.3	0.6
D	11,352	40	251	5.8	305.4	305.4	306.4	1.0
E	12,672	340	984	1.6	311.7	311.7	312.2	0.5
F	15,154	20	125	4.0	320.4	320.4	321.4	1.0

[1]Feet above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

HARRINGTON CREEK LATERAL F
HOWARD CREEK - HOWARD ROAD OUTFALL

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Ivy Creek								
A	79.10	254	423	2.3	261.2	251.4[2]	252.4	1.0
B	1,592	175	554	1.8	261.2	257.8[2]	257.8	0.0
C	3,636	18	95	7.9	262.1	262.1	262.1	0.0
D	5,225	40	48	2.2	271.6	271.6	271.6	0.0
E	6,073	21	34	1.5	279.9	279.9	279.9	0.0
F	6,999	23	73	0.7	296.5	296.5	296.5	0.0
Hurricane Creek								
A	475	78	702	13.3	247.6	232.3[3]	232.3	0.0
B	1,901	60	840	11.1	247.6	245.3[3]	245.4	0.1
C	2,059	60	862	10.8	247.6	246.0[3]	246.0	0.0
D	3,485	60	740	12.6	247.6	246.8[3]	246.9	0.1
E	6,600	67	840	11.1	255.2	255.2	255.2	0.0
F	7,867	78	869	10.1	257.2	257.2	257.2	0.0
G	8,976	45	501	12.7	259.1	259.1	259.2	0.1
H	10,771	45	415	15.4	261.0	261.0	261.0	0.0
I	13,464	81	793	5.5	272.6	272.6	273.2	0.6
J	16,896	60	807	5.4	281.7	281.7	281.8	0.1

[1]Feet above mouth
[2]Elevations computed without consideration of backwater effects from Loosahatchie River Drainage Canal
[3]Elevations computed without consideration of backwater effect from Nonconnah Creek

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

IVY CREEK - HURRICANE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Jakes Creek								
A	0.28	87	896	5.9	249.4	242.5[2]	243.3	0.8
B	0.73	72	972	5.4	252.6	252.6	252.6	0.0
C	1.50	362	1,589	3.2	259.9	259.9	260.5	0.6
D	2.39	473	2,726	2.1	268.5	268.5	269.4	0.9
John's Creek								
A	0.49	195	2,743	5.5	262.8	262.8	263.8	1.0
B	0.86	116	1,573	9.7	265.8	265.8	266.5	0.7
C	0.90	132	1,289	11.8	265.8	265.8	266.6	0.8
D	1.17	129	1,613	9.4	267.4	267.4	268.4	1.0
E	1.70	103	1,146	13.2	270.2	270.2	270.7	0.5
F	1.93	102	1,136	13.4	271.4	271.4	271.7	0.3
G	2.20	100	1, 544	9.6	277.4	277.4	277.5	0.1
K	2.56	115	1,938	6.6	284.0	284.0	284.7	0.7
I	3.17	131	2,206	5.3	287.7	287.7	288.3	0.6
J	3.67	105	1,485	7.9	291.4	291.4	292.0	0.6
K	4.25	100	1,112	4.4	300.2	300.2	300.9	0.7
L	4.31	82	1,231	4.0	301.1	301.1	302.1	1.0
M	4.64	95	1,033	3.1	306.4	306.4	307.4	1.0
N	4.93	119	1,009	3.1	307.7	307.7	308.6	0.9
0	5.10	64	747	4.2	309.0	309.0	309.8	0.8

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effect from Big Creek Drainage Canal

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

JAKES CREEK - JOHN'S CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
John's Creek (continued)								
P	5.96	270	1,230	2.6	316.1	316.1	317.1	1.0
Q	6.23	440	1,452	2.2	320.3	320.3	321.3	1.0
R	6.67	39	450	7.0	328.9	328.9	329.9	1.0
S	6.92	502	3,550	0.9	331.4	331.4	332.4	1.0
T	7.26	661	1,831	1.7	336.6	336.6	337.5	0.9
Johns Creek Lateral A								
A	0.10	76	1,211	5.7	298.6	298.6	298.6	0.0
B	0.81	82	1,222	5.7	302.1	302.1	302.9	0.8
C	1.04	100	1,331	5.2	303.9	303.9	304.9	1.0
D	1.28	222	3,146	2.2	305.1	305.1	305.9	0.8
E	1.60	91	1,208	4.3	306.8	306.8	307.4	0.6
F	2.12	75	635	8.2	311.9	311.9	312.1	0.2
G	2.67	61	950	5.5	321.3	321.3	321.9	0.6

[1]Miles above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

JOHN'S CREEK - JOHN'S CREEK LATERAL A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Johns Creek Lateral AA								
A	0.11	48	560	3.7	305.8	305.8	306.5	0.7
B	0.62	120	588	3.5	315.8	315.8	316.4	0.6
C	1.11	218	792	2.6	326.2	326.2	327.2	1.0
D	1.83	165	399	2.6	346.8	346.8	347.0	0.2
Johns Creek Lateral B								
A	0.20	90	1,014	2.2	306.3	306.3	306.8	0.5
B	0.31	263	1,656	1.3	306.7	306.7	307.6	0.9
C	0.63	50	489	4.5	310.6	310.6	311.6	1.0
D	1.61	305	1,681	1.3	325.2	325.2	326.2	1.0
Loosahatchie River Drainage Canal								
A	0.05	2470	19426	3.1	234.1	225.9[2]	226.9	1.0
B	0.87	4480	47,564	1.3	234.1	227.2[2]	228.2	1.0
C	1.74	2910	46,849	1.3	234.1	227.8[2]	228.8	1.0
D	2.81	3830	72,419	0.8	234.1	228.2[2]	229.2	1.0
E	4.01	4120	65,631	0.9	234.1	228.5[2]	229.5	1.0
F	5.10	970	20,699	2.8	234.1	228.9[2]	229.9	1.0

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effect from Mississippi River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

JOHNS CREEK LATERAL A - JOHNS CREEK LATERAL AA
LOOSAHATCHIE RIVER DRAINAGE CANAL

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Loosahatchie River Drainage Canal (continued)								
G	5.39	2580	45540	1.3	234.1	229.5[2]	230.5	1.0
H	8.74	2840	47558	1.1	234.1	230.7[2]	231.7	1.0
I	9.10	2,640	45,224	1.2	234.1	231.1[2]	232.1	1.0
J	10.08	4210	15090	3.7	234.1	231.6[2]	232.3	0.7
K	10.98	800	12459	4.5	234.1	232.8[2]	233.7	0.9
L	11.13	2720	37073	1.5	234.1	233.7[2]	234.5	0.8
M	11.47	4360	55202	1.0	234.2	234.2	235.1	0.9
N	12.93	3640	46747	1.2	235.8	235.8	236.7	0.9
O	13.33	860	12140	4.6	236.6	236.6	237.5	0.9
P	14.03	4,750	57,224	1.0	237.7	237.7	238.5	0.8
Q	14.86	4510	51267	1.1	238.6	238.6	239.4	0.8
R	16.98	4220	37373	1.6	242.2	242.2	243.1	0.9
S	17.74	3980	36,090	1.6	244.6	244.6	245.4	0.8
T	19.02	3910	37,804	1.6	246.9	246.9	247.8	0.9
U	21.08	5350	49584	1.2	251.5	251.5	252.5	1.0
V	22.73	860	10,086	5.9	256.9	256.9	257.8	0.9
W	23.52	4,630	48,579	1.2	258.9	258.9	259.7	0.8
X	24.27	4,210	39,657	1.5	260.1	260.1	261.0	0.9
Y	25.62	5900	40,985	1.5	263.1	263.1	264.0	0.9
Z	26.94	4370	40,992	1.3	265.9	265.9	266.9	1.0

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effect from Mississippi River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

LOOSAHATCHIE RIVER DRAINAGE CANAL

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Loosahatchie River Drainage Canal (continued)								
AA	28.27[1]	5140	44,038	1.2	268.0	268.0	269.0	1.0
AB	28.60[1]	6090	56,934	0.9	269.0	269.0	269.8	0.8
Loosahatchie River Lateral A								
A	1,386[2]	47.69	283.44	7.2	266.7	250.8[3]	250.9	0.1
B	2,339[2]	35.85	144.9	11.8	266.7	255.8[3]	255.8	0.0
C	3,879[2]	46.15	469.71	3.1	266.7	262.6[3]	262.8	0.2
D	4,567[2]	74.87	257.61	4.6	266.7	264.6[3]	264.7	0.1
E	5,300[2]	79	503.49	2.3	269.9	269.9	270.7	0.8
F	6,725[2]	59	261	2.7	270.4	270.4	271.4	1.0
G	8,234[2]	231	1293.73	0.6	282.0	282.0	283.0	1.0
Loosahatchie River Lateral C								
A	3,168[2]	110	232	7.9	272.1	272.1	272.1	0.0
B	3,854[2]	40	317	5.8	273.6	273.6	274.6	1.0
C	6,072[2]	40	196	3.6	287.8	287.8	287.9	0.1

[1]Miles above mouth
[2]Feet above mouth
[3]Elevations determined without considering backwater effects from Loosahatchie River Drainage Canal

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

LOOSAHATCHIE RIVER - LOOSAHATCHIE RIVER LATERAL A
LOOSAHATCHIE RIVER LATERAL C

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Loosahatchie River Lateral CA								
A	69	21	113	6.4	274.0	271.3[2]	272.3	1.0
B	2,054	34	153	3.8	283.5	283.5	283.7	0.2
C	3,050	12	43	7.3	288.3	288.3	288.5	0.2
Mary's Creek								
A	4,541	620	578	5.4	280.6	280.6	281.6	1.0
B	4,699	620	726	4.3	281.4	281.4	282.4	1.0
C	13,147	800	1,304	3.3	294.4	294.4	295.1	0.7
D	13,517	1,050	6,377	0.7	294.5	294.5	295.2	0.7
E	19,430	790	2,383	1.8	301.2	301.2	302.2	1.0
F	26,347	520	1,917	2.4	314.0	314.0	314.9	0.9
G	26,506	100	719	6.4	314.5	314.5	315.4	0.9
H	32,419	80	378	6.4	328.4	328.4	329.1	0.7
I	39,283	80	328	2.9	343.0	343.0	343.8	0.8

[1]Feet above mouth

[2] Elevations computed without considering backwater effects from Loosahatchie River Lateral A

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

LOOSAHATCHIE RIVER LATERAL CA - MARY'S CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Nonconnah Creek								
A	1,531	550	5,728	8.2	224.9	208.1[2]	208.1	0.0
B	4,013	1,050	6,694	7.1	224.9	212.1[2]	212.1	0.0
C	6,494	1,000	7,739	6.1	224.9	214.6[2]	214.7	0.1
D	8,818	1,000	5,365	8.8	224.9	217.1[2]	218.1	1.0
E	10,930	650	5,726	8.1	224.9	221.4[2]	221.8	0.4
F	13,675	1,150	3,495	13.2	226.3	226.3	226.8	0.5
G	18,216	1,400	23,386	1.8	231.9	231.9	232.2	0.3
H	23,549	150	3,920	11.0	232.9	232.9	233.2	0.3
I	26,189	900	9,431	4.6	237.0	237.0	237.3	0.3
J	31,258	570	11,038	3.9	239.5	239.5	240.3	0.8
K	34,267	445	9,426	4.2	240.9	240.9	241.9	1.0
L	35,851	490	7,032	5.6	241.9	241.9	242.8	0.9
M	38,122	250	4,608	8.5	244.1	244.1	244.8	0.7
N	42,029	438	11,793	3.1	248.1	248.1	249.0	0.9
O	46,834	281	5,629	6.5	250.9	250.9	251.7	0.8
P	49,896	1,100	14,663	2.3	253.2	253.2	254.2	1.0
Q	52,166	695	9,602	3.4	254.6	254.6	255.6	1.0
R	53,381	235	4,236	7.8	255.4	255.4	256.4	1.0
S	58,112	419	7,855	4.2	259.0	259.0	259.8	0.8
T	60,878	200	3,613	9.1	259.3	259.3	260.1	0.8
U	63,054	362	4,853	4.7	261.9	261.9	262.4	0.5
V	66,475	248	3,580	6.4	262.6	262.6	263.1	0.5

[1]Feet above mouth

[2]Elevations computed without consideration of backwater effect from Mississippi River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

NONCONNAH CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Nonconnah Creek (continued)								
W	71,808	548	3,920	5.8	270.4	270.4	270.8	0.4
X	76,032	165	2,526	8.8	274.1	274.1	274.8	0.7
Y	82,368	160	2,704	7.6	281.9	281.9	282.9	1.0
Z	88,018	300	3,466	5.8	288.3	288.3	288.9	0.6
AA	91,555	238	3,596	5.4	291.9	291.9	292.8	0.9
AB	95,568	570	4,886	3.7	296.5	296.5	297.5	1.0
AC	99,528	190	3,837	4.6	301.2	301.2	302.1	0.9
AD	103,066	320	5,411	3.1	302.6	302.6	303.5	0.9
AE	110,774	205	3,058	5.3	309.5	309.5	310.3	0.8
AF	115,305	1,118	5,838	2.8	314.0	314.0	314.9	0.9
AG	122,665	100	1,067	3.8	319.7	319.7	320.4	0.7
AH	127,987	114	1,219	2.7	327.8	327.8	328.8	1.0
AI	133,778	59	552	5.2	335.4	335.4	335.8	0.4
AJ	134,815	49	439	5.2	336.4	336.4	336.9	0.5
AK	139,341	42	245	9.4	345.5	345.5	345.5	0.0
AL	144,757	33	240	4.2	355.5	355.5	355.6	0.1
AM	144,876	43	287	3.5	355.8	355.8	355.9	0.1
AN	145,165	26	100	2.23	357.4	357.4	357.4	0.0
AO	147,575	16	54	4.11	360.9	360.9	361.0	0.0
AP	151,215	19	50	4.47	375.1	375.1	375.1	0.1

[1]Feet above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

NONCONNAH CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Nonconnah Creek Lateral B								
A	0.08	138	1,981	7.06	317.1	316.0[3]	316.6	0.6
B	0.43	144	1,132	4.73	321.8	321.8	322.3	0.5
C	1.44	1,626	8,092	1.07	328.7	328.7	329.1	0.4
D	2.10	805	4,246	2.04	331.1	331.1	332.1	1.0
Nonconnah Creek Lateral BA								
A	0.27	853	4,137	2.1	321.8	321.8	322.3	0.5
B	0.77	1,105	4,319	1.5	323.4	323.4	324.4	1.0
C	1.37	696	3,124	2.0	328.6	328.6	329.0	0.4
D	1.96	1,013	3,103	2.0	332.1	332.1	333.1	1.0
Nonconnah Creek Lateral C								
A	0.64	438	1,649	0.7	353.2	353.2	354.1	0.9
B	0.91	256	765	1.4	356.9	356.9	357.8	0.9
Nonconnah Creek Lateral J								
A	0.51	42	246	6.3	286.0	286.0	286.0	0.0
B	1.01	15[2]	91	14.0	298.1	298.1	298.1	0.0

[1]Miles above mouth
[2]Floodway coincident with channel banks
[3]Elevations computed without consideration of backwater effects from Nonconnah Creek

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

NONCONNAH CREEK LATERAL B - NONCONNAH CREEK LATERAL BA
NONCONNAH CREEK LATERAL C - NONCONNAH CREEK LATERAL J

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
North Fork Creek								
A	0.10	122	1,075	6.1	260.2	251.8[2]	251.8	0.0
B	0.42	137	1,192	5.5	260.2	256.4[2]	256.4	0.0
C	0.73	101	846	5.1	260.2	260.1[2]	260.1	0.0
D	0.87	94	931	4.6	261.4	261.4	261.4	0.0
E	0.98	138	805	5.4	262.5	262.5	262.5	0.0
F	1.24	87	683	1.9	264.9	264.9	265.1	0.2
G	1.63	84	520	2.5	265.7	265.7	266.0	0.3
H	2.17	80	395	3.3	268.6	268.6	268.7	0.1
I	2.58	44	137	4.5	273.1	273.1	273.1	0.0
J	2.97	43	133	4.6	279.1	279.1	279.1	0.0
K-L*								

[1]Miles above mouth

[2]Elevation computed without consideration of backwater effects from Big Creek Drainage Canal

*No floodway computed

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

NORTH FORK CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
North Fork Creek Lateral A								
A	149	40	230	9.2	263.4	259.4[2]	260.4	0.9
B	1,708	274	412	4.9	266.6	266.6	266.6	0.0
C	3,137	79	367	5.5	273.0	273.0	273.1	0.1
D	4,621	33	255	7.9	274.9	274.9	275.2	0.3
E	6,837	30	203	6.5	277.5	277.5	278.1	0.6
F	8,589	29	186	7.1	281.1	281.1	281.3	0.2
G	9,950	40	193	6.9	284.3	284.3	284.4	0.1
H	13,658	20	99	7.8	293.7	293.7	293.8	0.1
I	18,564	27	178	3.9	312.4	312.4	312.6	0.2
J	19,353	84	598	1.2	317.5	317.5	318.5	0.9
K	19,968	84	502	1.4	320.6	320.6	321.5	0.9

[1]Feet above mouth

[2]Elevations computed without considering backwater effects from North Fork Creek

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

NORTH FORK CREEK LATERAL A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Oliver Creek								
A	170	49	552	6.9	257.5	244.8[2]	245.8	1.0
B	4,564	715	1,809	2.0	257.5	251.7[2]	252.6	0.9
C	6,454	1,281	2,018	1.7	257.5	256.4[2]	256.4	0.0
D	6,649	200	3,384	4.0	259.0	259.0	259.0	0.0
E	7,926	84	701	4.5	263.3	263.3	264.3	1.0
F	8,793	164	861	3.5	264.6	264.6	265.6	1.0
G	12,651	183	522	4.5	273.1	273.1	273.9	0.8
H	13,666	40	368	6.2	277.1	277.1	277.7	0.6
Royster Creek								
A	686	114	1,528	7.4	255.4	249.8[3]	249.8	0.0
B	1,531	103	1,417	7.9	255.4	251.8[3]	251.8	0.0
C	4,066	148	1,848	6.1	257.1	257.1	257.1	0.0
D	5,544	106	1,664	6.5	259.3	259.3	259.3	0.0
E	7,709	145	1,956	5.5	262.5	262.5	262.5	0.0
F	10,349	113	1,675	6.0	265.7	265.7	265.7	0.0
G	12,989	111	1,397	7.2	269.9	269.9	269.9	0.0

[1]Feet above mouth
[2]Elevations computed without consideration of backwater effects from Loosahatchie River Drainage Canal
[3]Elevations computed without consideration of backwater effects from Big Creek Drainage Canal

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

OLIVER CREEK - ROYSTER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Royster Creek (continued)								
H	15,893	100	1,659	5.4	274.6	274.6	274.6	0.0
I	19,694	60	935	5.3	278.7	278.7	278.7	0.0
J	22,915	60	513	5.7	284.8	284.8	284.8	0.0
K	24,974	86	645	4.5	291.5	291.5	291.5	0.0
Tenmile Creek								
A	2,482	108	644	13.7	255.5	236.9[2]	236.88	0.0
B	5,122	52	817	10.8	259.3	259.3	259.5	0.2
C	7,128	42	636	13.9	262.2	262.2	263.2	1.0
D	7,762	42	650	13.6	264.3	264.3	265.3	1.0
E	10,824	34	303	16.0	266.8	266.8	267.0	0.2
F	12,725	36	295	16.5	272.6	272.6	272.6	0.0
G	13,728	29	248	12.9	277.9	277.9	277.9	0.0
H	16,421	72	721	4.4	290.7	290.7	290.8	0.1
I	17,424	270	1,273	2.5	296.5	296.5	296.5	0.0
J	17,846	35	648	4.9	303.1	303.1	303.1	0.0
K	18,374	150	1,659	1.9	303.6	303.6	303.6	0.0
L	18,586	150	1,672	1.9	303.9	303.9	304.2	0.3
M	19,430	150	808	4.00	303.9	303.9	304.3	0.4
N	19,906	150	1,043	2.60	304.6	304.6	305.4	0.8

[1]Feet above mouth

[2]Elevations computed without consideration of backwater effect from Nonconnah Creek

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

ROYSTER CREEK - TENMILE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Tenmile Creek (continued)								
O	4.15	24	298	9.30	307.3	307.3	308.1	0.8
P	4.27	76	585	4.70	311.8	311.8	312.1	0.3
Q	4.47	49	382	7.20	313.4	313.4	313.6	0.2
R	4.58	53	310	8.90	315.7	315.7	315.8	0.1
S	4.82	72	494	4.20	317.9	317.9	318.9	1.0
T	5.21	31	418	4.93	330.0	330.0	330.1	0.1
U	5.84	265	1,429	1.44	339.1	339.1	339.1	0.0
Tenmile Creek Lateral A								
A	0.69	40	145	6.88	287.6	287.6	287.6	0.0
B	0.87	40	147	3.71	291.1	291.1	291.1	0.0

[1]Miles above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

TENMILE CREEK - TENMILE CREEK LATERAL A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
West Beaver Creek								
A	1.12	1,710	8,043	1.6	286.5	286.5	286.5	0.0
B	1.61	1,190	7,533	1.7	288.8	288.8	289.6	0.8
C	2.39	70	1,281	10.1	296.3	296.3	297.3	1.0
D	2.82	2,030	12,259	1.1	301.3	301.3	302.2	0.9
E	2.92	2,170	16,891	0.8	302.3	302.3	302.9	0.6
F	3.84	1,570	7,163	1.7	306.6	306.6	307.6	1.0
G	4.57	1,980	11,213	1.1	314.5	314.5	315.5	1.0
H	5.52	910	5,105	2.3	320.9	320.9	320.9	0.0
I	5.82	60	853	10.0	325.4	325.4	326.3	0.9
Wolf River								
A	0.22	724	14,685	2.3	233.3	215.3[2]	216.3	1.0
B	0.78	363	9,168	3.7	233.3	215.7[2]	216.7	1.0
C	1.17	1480	21,479	1.6	233.3	216.2[2]	217.1	0.9
D	1.61	942	11,597	2.9	233.3	216.2[2]	217.2	1.0
E	1.72	560	7,585	4.5	233.3	216.9[2]	217.7	0.8
F	2.32	1430	17,121	2.0	233.3	218.9[2]	219.9	1.0
G	2.94	670	10,697	3.2	233.3	219.6[2]	220.6	1.0
H	3.49	786	10,097	3.5	233.3	220.6[2]	221.6	1.0
I	4.39	833	10692	3.3	233.3	222.4[2]	223.4	1.0

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effect from Mississippi River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WEST BEAVER CREEK - WOLF RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Wolf River (continued)								
J	5.01	1100	13176	2.6	233.3	224.0[2]	224.9	0.9
K	5.61	838	10215	3.4	233.3	225.8[2]	226.9	1.0
L	6.42	1153	13801	2.6	233.3	228.0[2]	228.98	1
M	6.84	893	10622	3.4	233.3	228.8[2]	229.78	1.0
N	7.64	976	14,215	2.5	233.3	229.8[2]	230.8	1.0
0	7.97	747	10,385	3.5	233.3	230.4[2]	231.4	1.0
P	8.33	1,700	14,728	2.4	233.3	231.7[2]	232.6	0.9
Q	9.73	1,750	7,978	4.5	234.8	234.8	235.7	0.9
R	10.14	1,080	11,121	3.2	237.9	237.9	238.8	0.9
S	11.19	2,020	22,692	1.5	241.3	241.3	242.3	1.0
T	11.58	2,315	34,972	1.0	242.3	242.3	243.3	1.0
U	12.23	977	5,933	6.9	242.9	242.9	243.9	1.0
V	12.67	2,460	36,882	0.9	243.9	243.9	244.8	0.9
W	13.59	720	7,994	3.8	247.1	247.1	247.7	0.6
X	13.83	947	10,882	2.8	248.4	248.4	249.2	0.8
Y	14.27	2 ,400	20758	1.5	249.3	249.3	250.0	0.7
Z	14.79	1830	14,977	2.0	250.6	250.6	251.5	0.9
AA	15.67	2180	20,571	1.5	252.7	252.7	253.7	1.0
AB	16.09	922	9,025	3.4	253.8	253.8	254.7	0.9
AC	16.58	787	11,303	2.7	255.7	255.7	256.5	0.8
AD	17.43	1865	18,317	1.7	257.5	257.5	258.4	0.9

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effect from Mississippi River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WOLF RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Wolf River (continued)								
AE	18.72	2140	19,048	1.6	260.3	260.3	261.3	1.0
AF	19.69	803	9,379	3.3	262.1	262.1	263.0	0.9
AG	20.00	1935	14,509	2.1	263.4	263.4	264.3	0.9
AH	21.09	2320	13612	2.3	266.5	266.5	267.5	1.0
AI	24.34	1200	11797	2.6	276.6	276.6	277.5	0.9
AJ	27.54	3960	24579	1.3	279.9	279.9	280.9	1.0
AK	30.86	4275	27910	1.1	287.1	287.1	288.1	1
AL	32.78	3980	27446	1.1	290.9	290.9	291.9	1.0
Wolf River Lateral A								
A	0.43	240	894	1.1	259.2	259.2	260.2	1.0
B	0.70	30	95	10.2	263.7	263.7	263.7	0.0
C	1.23	40	342	2.8	285.6	285.6	285.6	0.0
D	1.59	25	87	11.2	294.7	294.7	294.7	0.0
Wolf River Lateral AA								
A	0.04	340	1,066	1.5	258.3	258.3	258.6	0.3
B	0.48	30	115	13.6	270.1	270.1	270.1	0.0

[1]Miles above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WOLF RIVER - WOLF RIVER LATERAL A
WOLF RIVER LATERAL AA

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Wolf River Lateral AA (continued)								
C	0.78	90	253	6.2	275.4	275.4	275.6	0.2
D	0.90	20	127	12.4	280.3	280.3	280.6	0.3
Wolf River Lateral B								
A	0.22	120	382	1.9	261.1	259.6[2]	260.6	1.0
B	0.65	25	189	3.5	269.0	269.0	269.0	0.0
C	0.77	20	80	8.6	275.5	275.5	275.5	0.0
D	1.02	40	250	3.2	282.8	282.8	282.9	0.1
E	1.18	20	126	2.5	286.0	286.0	286.6	0.6
F	1.73	20	51	6.3	311.2	311.2	311.7	0.5
Wolf River Lateral BA								
A	0.17	150	478	1.0	292.48	292.48	293.38	0.9
B	0.28	70	175	2.8	293.4	293.4	294.4	1.0
C	0.45	40	103	4.8	301.3	301.3	302.3	1.0
D	0.59	40	146	3.4	306.8	306.8	307.7	0.9
E	0.78	90	254	0.9	326.5	326.5	327.4	0.9

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effect from Wolf River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WOLF RIVER LATERAL AA - WOLF RIVER LATERAL B
WOLF RIVER LATERAL BA

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Wolf River Lateral C								
A	3,854	40	137	5.3	268.4	268.4	268.5	0.1
B	4,594	20	78	9.3	272.4	272.4	272.5	0.1
C	4,841	40	165	5.4	275.2	275.2	276.2	1.0
D	5,989	19	109	7.7	282.4	282.4	282.4	0.0
E	6,699	26	134	6.1	286.2	286.2	286.6	0.4
F	7,597	13	66	9.6	287.7	287.7	287.9	0.2
G	7,951	11	88	7.2	292.4	292.4	292.4	0.0
H	8,931	9	70	7.5	298.5	298.5	298.5	0.0
I	9,530	10	76	6.2	305.7	305.7	306.5	0.8
J	10,174	14	83	4.8	310.4	310.4	310.5	0.1
Wolf River Lateral CA								
A	792	20	68	10.1	271.1	271.1	271.1	0.0
B	1,003	20	70	9.9	272.1	272.1	272.1	0.0
C	1,214	20	86	8.0	274.0	274.0	274.0	0.0
D	3,168	40	236	2.9	292.5	292.5	293.5	1.0

[1]Feet above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WOLF RIVER LATERAL C - WOLF RIVER LATERAL CA

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Wolf River Lateral D								
A	0.41	83	912	2.0	268.3	268.3	269.3	1.0
B	0.60	69	497	3.7	270.3	270.3	270.8	0.5
C	0.81	25	137	13.3	276.1	276.1	276.1	0.0
D	1.26	150	365	2.4	290.8	290.8	291.4	0.6
E	1.39	150	364	2.3	293.6	293.6	294.3	0.7
F	1.71	20	126	6.8	304.6	304.6	305.3	0.7
G	1.88	100	500	5.0	308.3	308.3	309.0	0.7
Wolf River Lateral E								
A	0.78	66	228	10.5	270.2	268.3[2]	268.3	0.0
B	1.43	90	516	3.5	281.0	281.0	282.0	1.0
C	2.36	13	135	11.2	303.3	303.3	303.5	0.2
Wolf River Lateral EA								
A	0.06	*	47	18.6	295.1	293.4[3]	293.4	0.0
B	0.33	**	60	14.4	305.3	305.3	305.3	0.0
C	0.67	139	906	3.1	326.2	326.2	327.2	1.0

[1]Miles above mouth

[2, 3]Elevations computed without considerations of backwater effects from Wolf River and Wolf River Lateral A, respectively

*Floodway coincident with channel banks **Floodway contained in culvert

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WOLF RIVER LATERAL D - WOLF RIVER LATERAL E
WOLF RIVER LATERAL EA

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Wolf River Lateral F								
A	170	41	252	8.0	271.0	253.7[2]	253.8	0.1
B	4,498	89	575	3.1	274.3	274.3	274.3	0.0
C	5,940	44	262	6.2	281.2	281.2	281.2	0.0
D	6,957	35	226	6.5	285.6	285.6	285.7	0.0
E	7,556	35	234	5.8	286.8	286.8	286.8	0.1
F	8,500	45	267	4.9	292.7	292.7	292.8	0.1
G	10,061	35	218	5.8	296.9	296.9	297.4	0.5
H	11,202	22	136	6.9	299.6	299.6	300.0	0.3
I	11,858	44	181	5.2	305.4	305.4	305.4	0.0
J	12,733	30	156	5.0	308.4	308.4	308.6	0.2
K	13,941	36	199	2.6	317.0	317.0	317.9	1.0
L	14,301	45	211	2.2	318.5	318.5	319.5	0.9
M	14,394	54	287	1.6	319.8	319.8	320.8	1.0
N	15,267	7	54	5.5	325.6	325.6	325.8	0.1
O	16,077	25	74	1.5	334.5	334.5	334.7	0.2
P	16,266	22	73	1.5	337.4	337.4	338.2	0.8

[1]Feet above mouth

[2]Elevations computed without considering backwater effects from Wolf River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WOLF RIVER LATERAL F

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Wolf River Lateral G								
A	157	57	439	6.1	272.3	254.7[2]	255.7	1.0
B	1,969	29	251	9.9	272.3	262.7[2]	262.8	0.1
C	3,366	49	261	9.3	272.3	268.7[2]	268.7	0.0
D	4,045	37	240	6.1	272.3	271.2[2]	271.3	0.1
E	4,755	34	147	9.8	272.5	272.5	272.6	0.2
F	5,898	47	360	3.9	279.9	279.9	280.0	0.0
G	6,516	120	401	3.7	285.6	285.6	286.3	0.7
H	8,972	42	292	5.4	294.7	294.7	294.8	0.1
I	9,710	46	213	7.4	295.2	295.2	295.8	0.6
J	11,740	49	331	3.8	305.7	305.7	306.7	1.0
K	12,555	37	283	4.0	309.1	309.1	309.4	0.3
L	13,551	60	180	3.9	316.3	316.3	316.6	0.3

[1]Feet above mouth

[2]Elevations computed without considering backwater effects from Wolf River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WOLF RIVER LATERAL G

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Wolf River Lateral H								
A	289	103	963	3.5	279.3	265.7[2]	266.7	1.0
B	3,841	98	769	4.4	279.3	268.7[2]	269.6	0.9
C	11,069	240	1,177	2.9	280.5	280.5	281.3	0.8
D	12,103	55	449	7.5	282.4	282.4	283.1	0.7
E	14,216	205	750	4.1	285.4	285.4	286.2	0.7
F	16,780	85	500	5.9	291.6	291.6	291.8	0.2
G	18,819	40	361	6.4	293.3	293.3	294.3	1.0
H	19,184	50	423	5.5	294.8	294.8	295.6	0.8
I	19,351	52	384	5.8	295.9	295.9	296.7	0.8
J	19,460	38	373	6.0	296.2	296.2	297.1	0.9
K	19,857	45	364	5.9	297.1	297.1	297.8	0.7
L	20,198	230	580	3.5	298.3	298.3	299.0	0.8
M	20,385	117	454	4.4	299.6	299.6	300.1	0.4
N	20,743	140	458	4.1	300.4	300.4	300.9	0.5
O	20,856	180	792	2.4	300.5	300.5	301.4	0.9
P	21,105	75	397	5.3	302.4	302.4	302.8	0.4
Q	24,926	40	231	4.62	309.0	309.0	309.4	0.4
R	29,740	40	195	3.21	319.6	319.6	319.6	0.0
S	31,799	32	140	2.56	325.2	325.2	325.2	0.0

[1]Feet above mouth

[2]Elevations computed without considering backwater effects from Wolf River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WOLF RIVER LATERAL H

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Wolf River Lateral I								
A	8,290	35	151	4.5	296.4	296.4	297.1	0.7
B	9,346	57	198	3.5	306.4	306.4	307.2	0.8
C	9,979	24	112	6.1	309.2	309.2	309.6	0.4
D	10,771	60	154	4.5	313.9	313.9	314.6	0.7
Wolf River Lateral IA								
A	3,115	40	203	5.8	291.5	291.5	291.7	0.2
B	7,392	50	285	6.5	304.7	304.7	305.6	0.9
Wolf River Lateral J								
A	1,003	340	974	3.7	288.1	285.7[2]	286.7	1.0
B	4,167	47	368	7.5	292.8	292.8	293.6	0.8
C	5,385	91	945	2.8	297.5	297.5	298.5	1.0
D	6,406	80	393	6.35	298.6	298.6	299.3	0.7
E	8,040	41	441	5.02	305.9	305.9	305.9	0.0
F	10,003	40	230	7.84	308.4	308.4	308.5	0.1
G	10,426	58	533	3.31	311.1	311.1	311.1	0.1
H	13,576	147	1,431	0.49	322.6	322.6	322.7	0.1

[1] Feet above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WOLF RIVER LATERAL I - WOLF RIVER LATERAL IA
WOLF RIVER LATERAL J

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Wolf River Lateral K								
A	0.68	34	273	8.1	292.8	292.8	293.1	0.3
B	1.96	95	196	1.8	332.6	332.6	333.2	0.6
Wolf River Lateral L								
A	1.70	333	1,442	3.0	315.6	315.6	316.6	1.0
B	2.40	222	526	3.8	326.3	326.3	327.1	0.8
C	2.66	120	583	2.7	328.5	328.5	329.5	1.0
D	3.26	90	398	3.9	339.0	339.0	340.0	1.0
Wolf River Lateral M								
A	0.58	25	200	5.4	239.8	238.1[2]	239.1	1.0
B	0.89	25	206	5.2	242.6	242.6	242.9	0.3
C	0.98	25	188	5.7	245.0	245.0	245.2	0.2
D	1.04	30	166	6.5	247.8	247.8	248.4	0.6
E	1.22	20	210	5.1	251.2	251.2	251.5	0.3
F	1.43	20	177	8.4	255.5	255.5	255.7	0.2

[1]Miles above mouth

[2]Elevations computed without consideration of backwater effect from Wolf River

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WOLF RIVER LATERAL K - WOLF RIVER LATERAL L
WOLF RIVER LATERAL M

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
Wolf River Lateral M (continued)								
G	1.58	22	245	6.0	258.7	258.7	258.7	0.0
H	1.61	22	307	4.8	259.1	259.1	259.1	0.0
I	2.22	8	76	9.7	271.3	271.3	271.3	0.0

[1]Miles above mouth

TABLE 4

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

FLOODWAY DATA

WOLF RIVER LATERAL M

The area between the floodway and 1-percent-annual-chance floodplain boundaries is termed the floodway fringe. The floodway fringe encompasses the portion of the floodplain that could be completely obstructed without increasing the water-surface elevation of the 1-percent-annual-chance flood more than 1.0 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to floodplain development are shown in Figure 1.

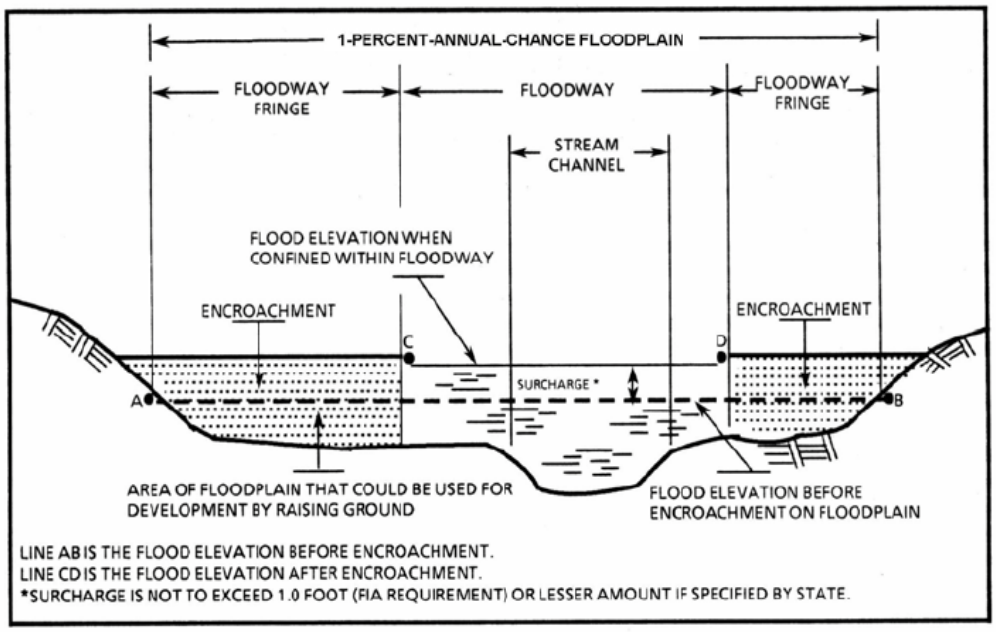

Figure 1 - Floodway Schematic

5.0 INSURANCE APPLICATIONS

For flood insurance rating purposes, flood insurance zone designations are assigned to a community based on the results of the engineering analyses. These zones are as follows:

Zone A

Zone A is the flood insurance risk zone that corresponds to the 1-percent-annual-chance floodplains that are determined in the FIS by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no BFEs or base flood depths are shown within this zone.

Zone AE

Zone AE is the flood insurance risk zone that corresponds to the 1-percent-annual-chance floodplains that are determined in the FIS by detailed methods. In most instances, whole-foot BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone X

Zone X is the flood insurance risk zone that corresponds to areas outside the 0.2-percent-annual-chance floodplain, areas within the 0.2-percent-annual-chance floodplain, areas of 1-percent-annual-chance flooding where average depths are less than 1 foot, areas of 1-percent-annual-chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1-percent-annual-chance flood by levees. No BFEs or base flood depths are shown within this zone.

6.0 FLOOD INSURANCE RATE MAP

The FIRM is designed for flood insurance and floodplain management applications.

For flood insurance applications, the map designates flood insurance risk zones as described in Section 5.0 and, in the 1-percent-annual-chance floodplains that were studied by detailed methods, shows selected whole-foot BFEs or average depths. Insurance agents use the zones and BFEs in conjunction with information on structures and their contents to assign premium rates for flood insurance policies.

For floodplain management applications, the map shows by tints, screens, and symbols, the 1- and 0.2-percent-annual-chance floodplains, floodways, and the locations of selected cross sections used in the hydraulic analyses and floodway computations.

The countywide FIRM presents flooding information fro the entire geographic area of Shelby County. Previously, FIRMs were prepared for each incorporated community and the unincorporated areas of the County identified as flood-prone. This countywide FIRM also includes flood-hazard information that was presented separately on Flood Boundary and Floodway Maps (FHBMs), where applicable. Historical data relating to the maps prepared for each community are presented in Table 5, “Community Map History.”

COMMUNITY NAME	INITIAL IDENTIFICATION	FLOOD HAZARD BOUNDARY MAP REVISIONS DATES	FIRM EFFECTIVE DATE	FIRM REVISIONS DATE
Arlington, Township of	July 25, 1975	None	June 15, 1981	February 11, 1983
Bartlett, City of	February 22, 1974	June 3, 1977	June 15, 1981	
Collierville, Town of	February 14, 1975	None	September 30, 1981	October 1, 1982 October 17, 1989
Germantown, City of	September 15, 1978	None	January 20, 1982	December 4, 1985
Lakeland, City of	December 2, 1994	None	December 2, 1994	
Memphis, City of	August 23, 1974	February 9, 1979	December 1, 1982	August 19, 1985

TABLE 5

FEDERAL EMERGENCY MANAGEMENT AGENCY
SHELBY COUNTY, TN
AND INCORPORATED AREAS

COMMUNITY MAP HISTORY

COMMUNITY NAME	INITIAL IDENTIFICATION	FLOOD HAZARD BOUNDARY MAP REVISIONS DATES	FIRM EFFECTIVE DATE	FIRM REVISIONS DATE
Millington, City of	May 31, 1974	August 6, 1976	March 16, 1981	
Shelby County Unincorporated Areas	August 4, 1978	None	December 1, 1982	September 27, 1985 January 17, 1990

TABLE 5

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS

COMMUNITY MAP HISTORY

7.0 OTHER STUDIES

FEMA has published FIS reports and FIRMS for Shelby County (References 14, 15, 16), City of Memphis (Reference 17) City of Germantown (Reference 18), City of Bartlett (Reference 19), City of Millington (Reference 20), Town of Arlington (Reference 21), and Town of Collierville (Reference 22).

Flood Insurance Studies have been prepared for Crittendon County, Arkansas, Desoto County, Mississippi, and Marshall County, Mississippi (References 23-25).

Flood Insurance Studies were published for Fayette and Tipton Counties, Tennessee (References 26-27).

Information pertaining to revised and unrevised flood hazards for each jurisdiction within Shelby County has been compiled into this FIS. Therefore, this FIS report supersedes or is compatible with all previously printed FIS reports, FIRMs, and FBFMs for all jurisdictions within Williamson County and should be considered authoritative for the purposes of the NFIP.

8.0 LOCATION OF DATA

Information concerning the pertinent data used in the preparation of this study can be obtained by contacting the Flood Insurance and Mitigation Division, FEMA Region IV, Koger-Center – Rutgers Building, 3003 Chamblee Tucker Road, Atlanta, Georgia 30341.

9.0 REFERENCES AND BIBLIOGRAPHY

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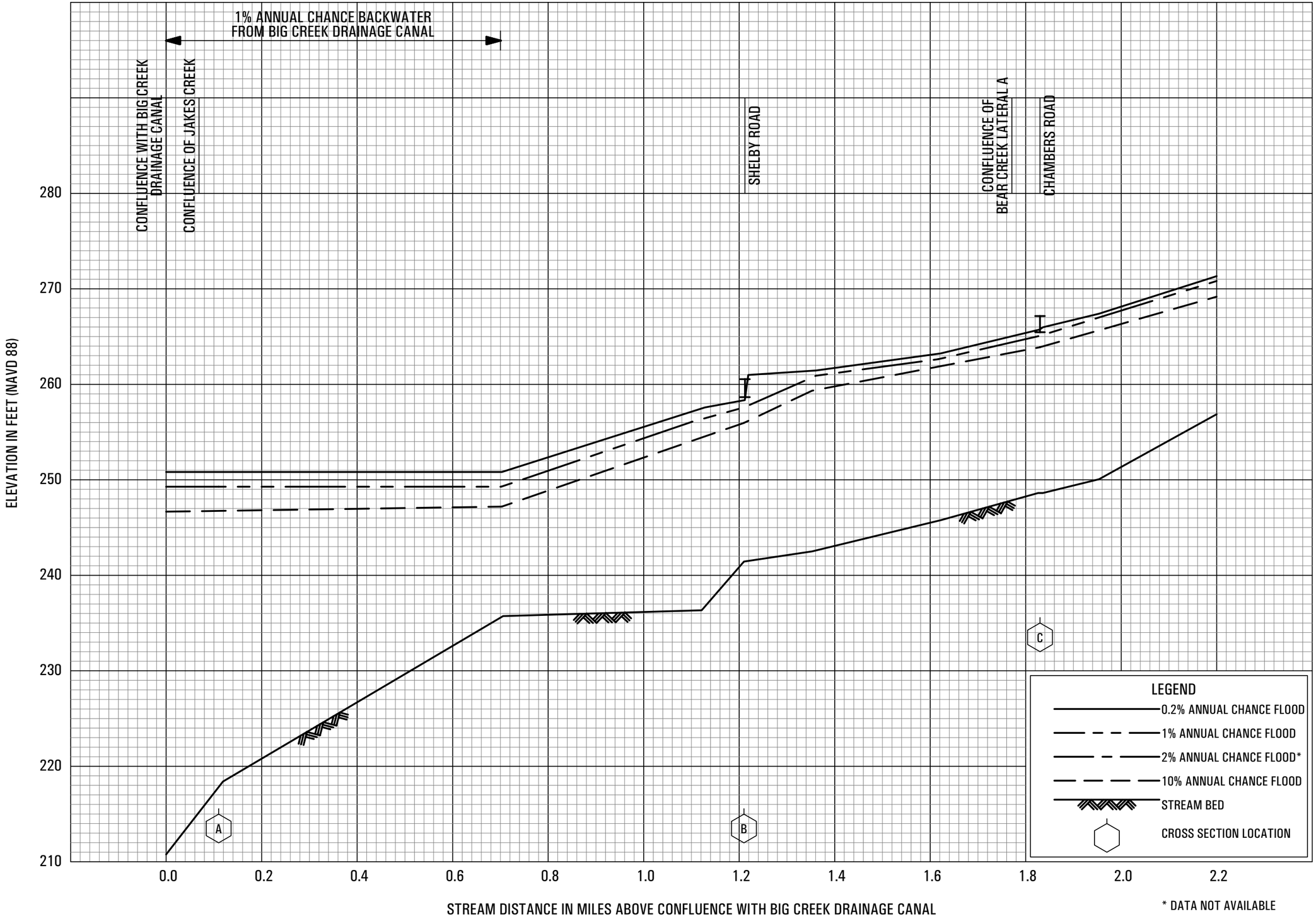


FLOOD PROFILES

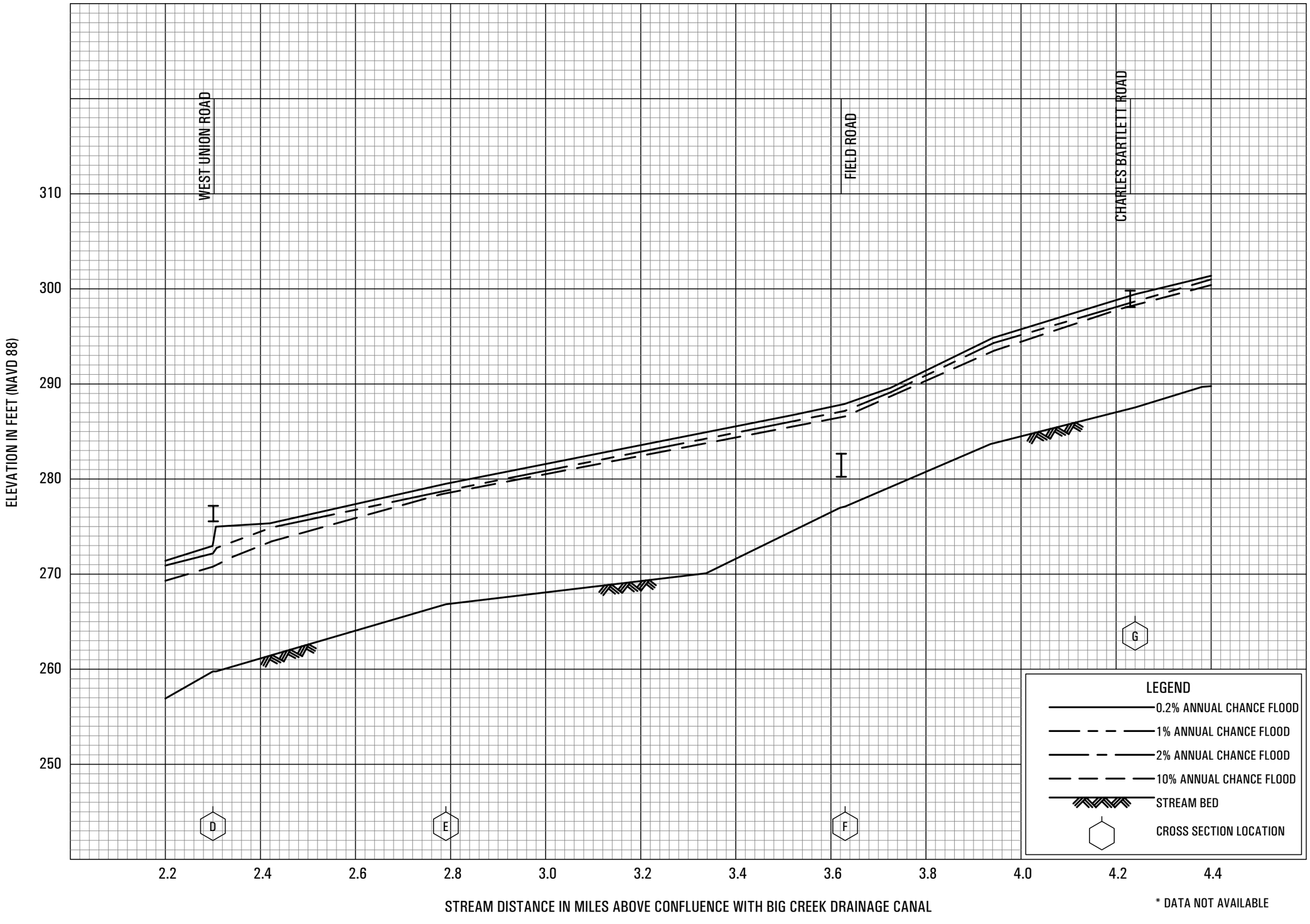
BEAR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS

01P



* DATA NOT AVAILABLE

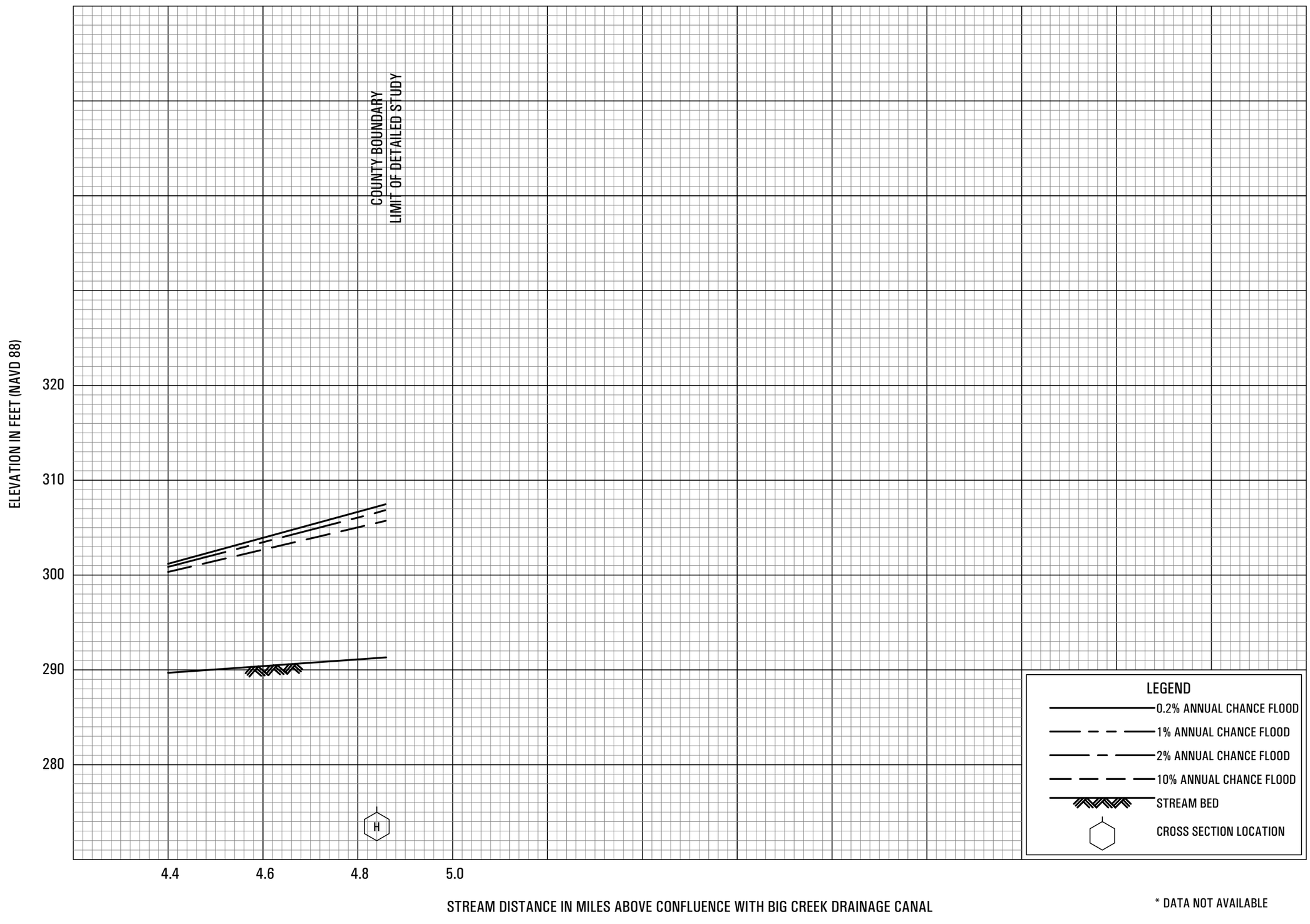
FLOOD PROFILES

BEAR CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



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FLOOD PROFILES

BEAR CREEK

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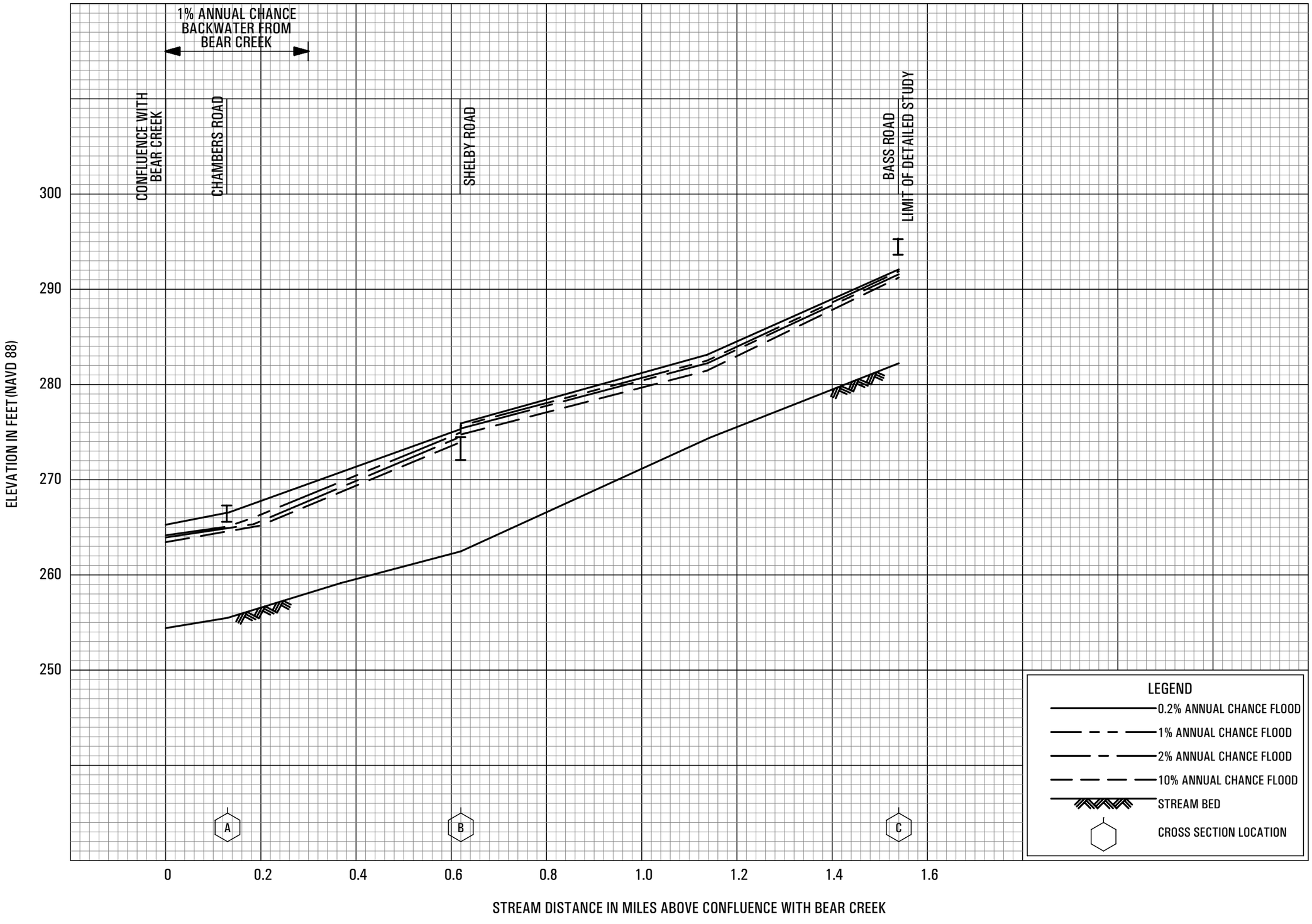


FLOOD PROFILES

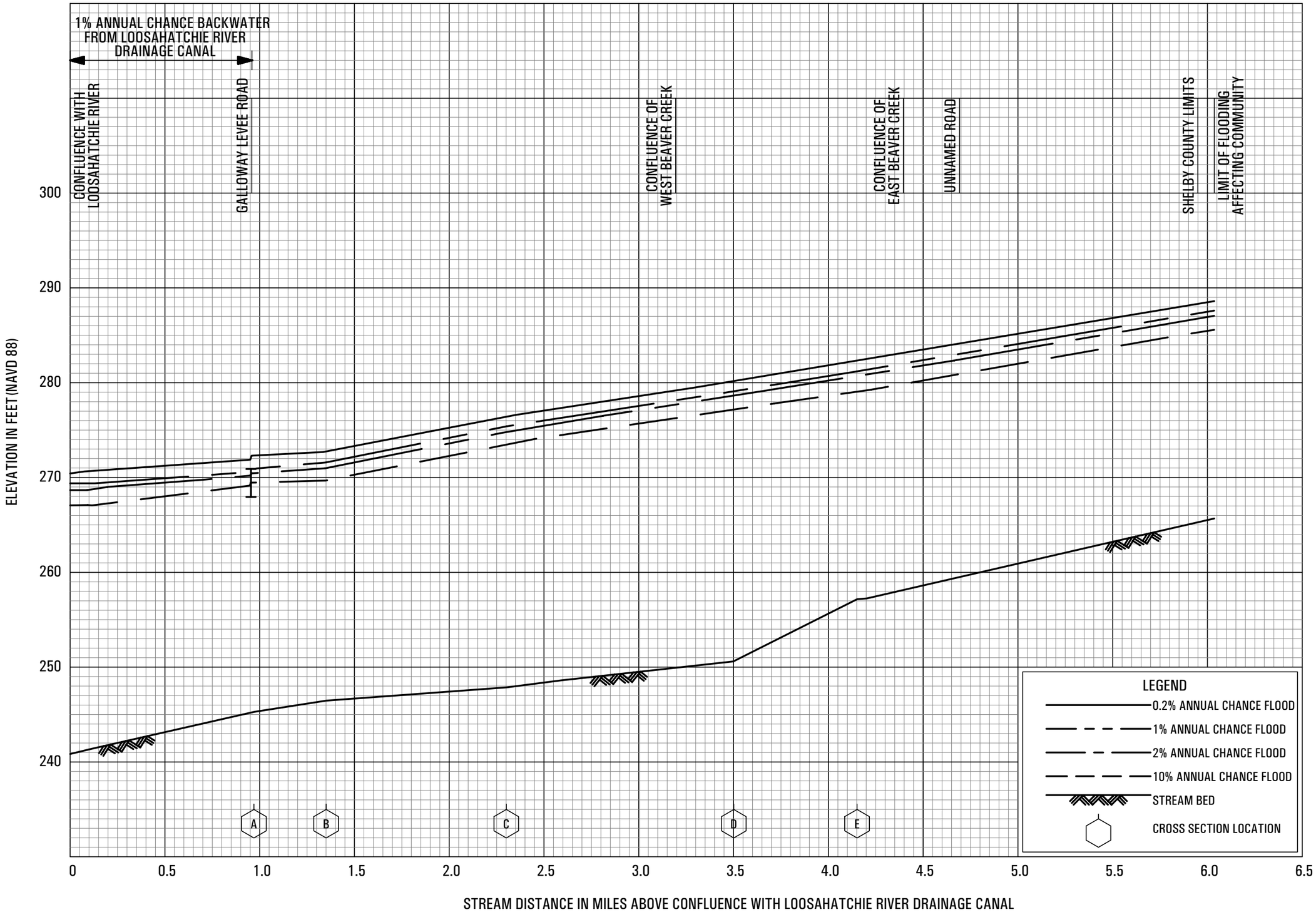
BEAR CREEK LATERAL A

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS

04P



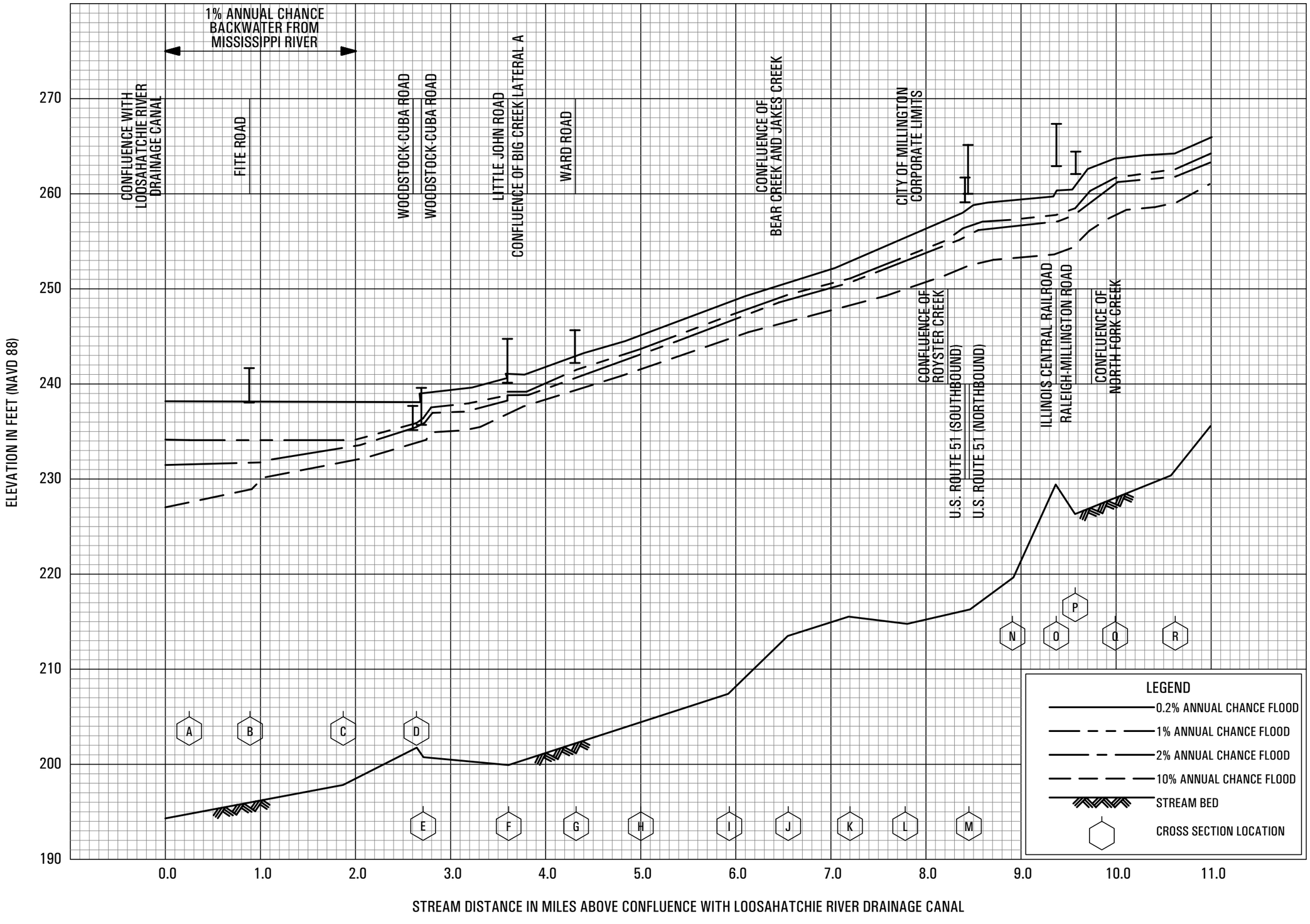
FLOOD PROFILES

BEAVER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



FLOOD PROFILES

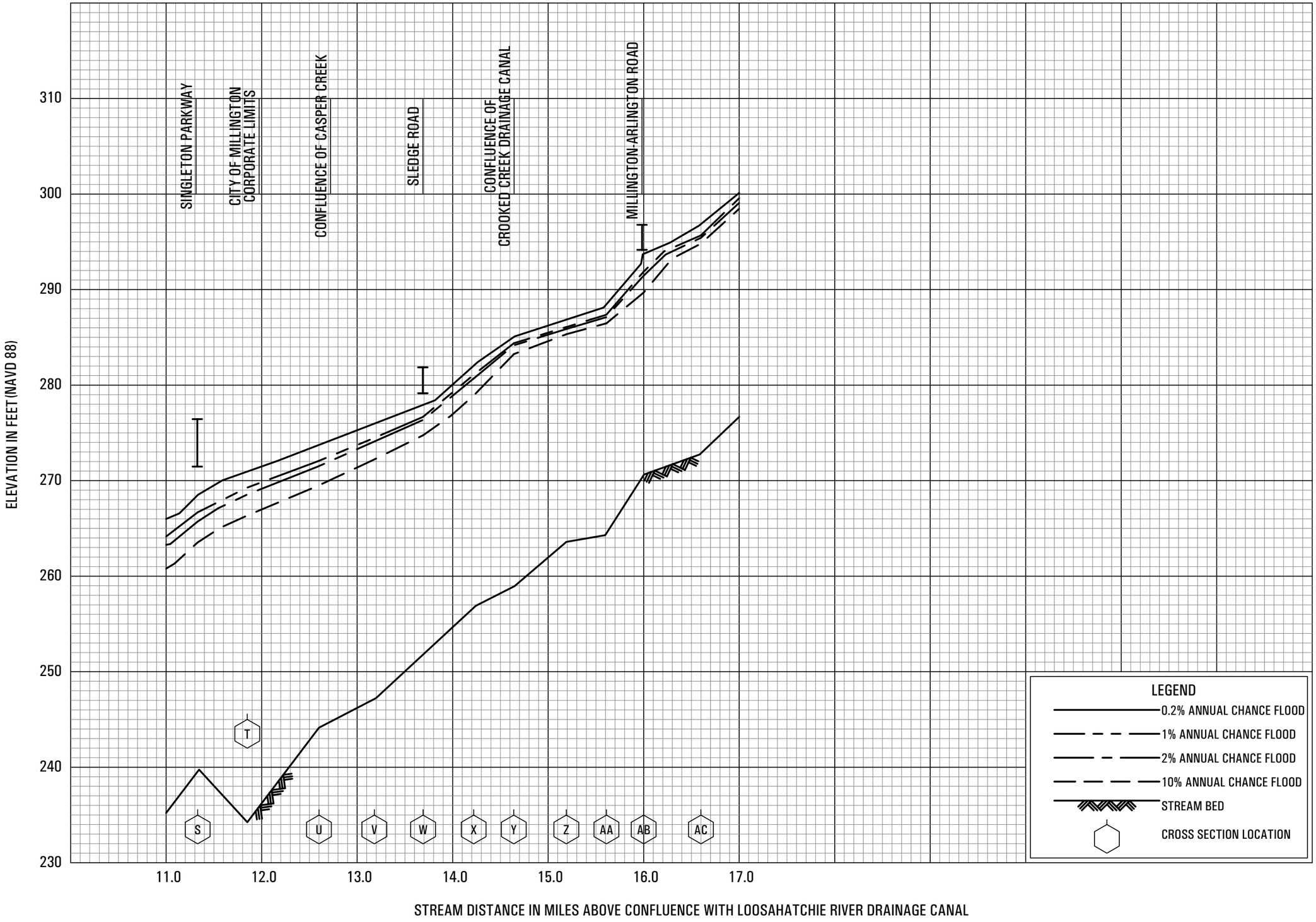
BIG CREEK DRAINAGE CANAL

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS

06P



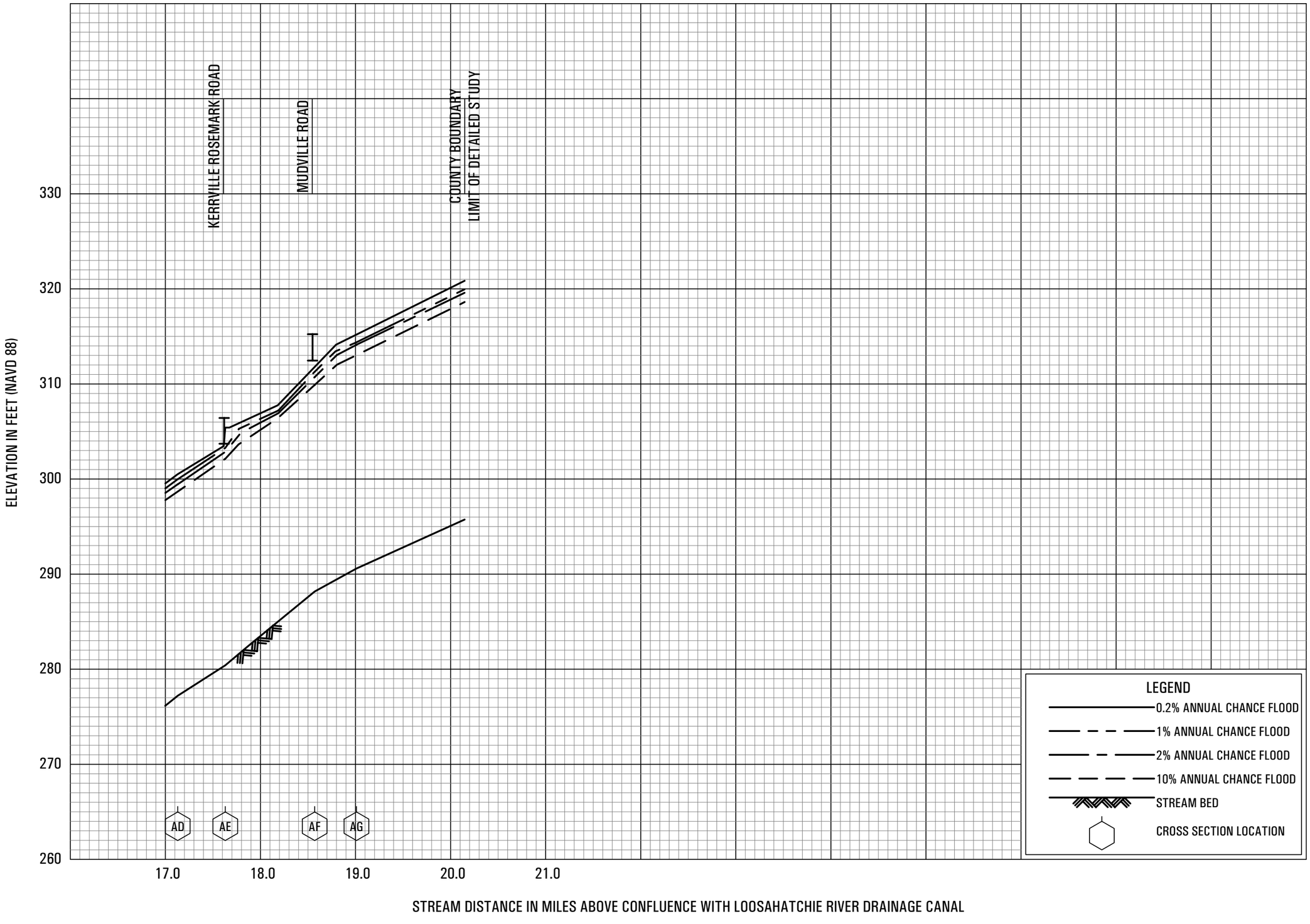
FLOOD PROFILES

BIG CREEK DRAINAGE CANAL

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



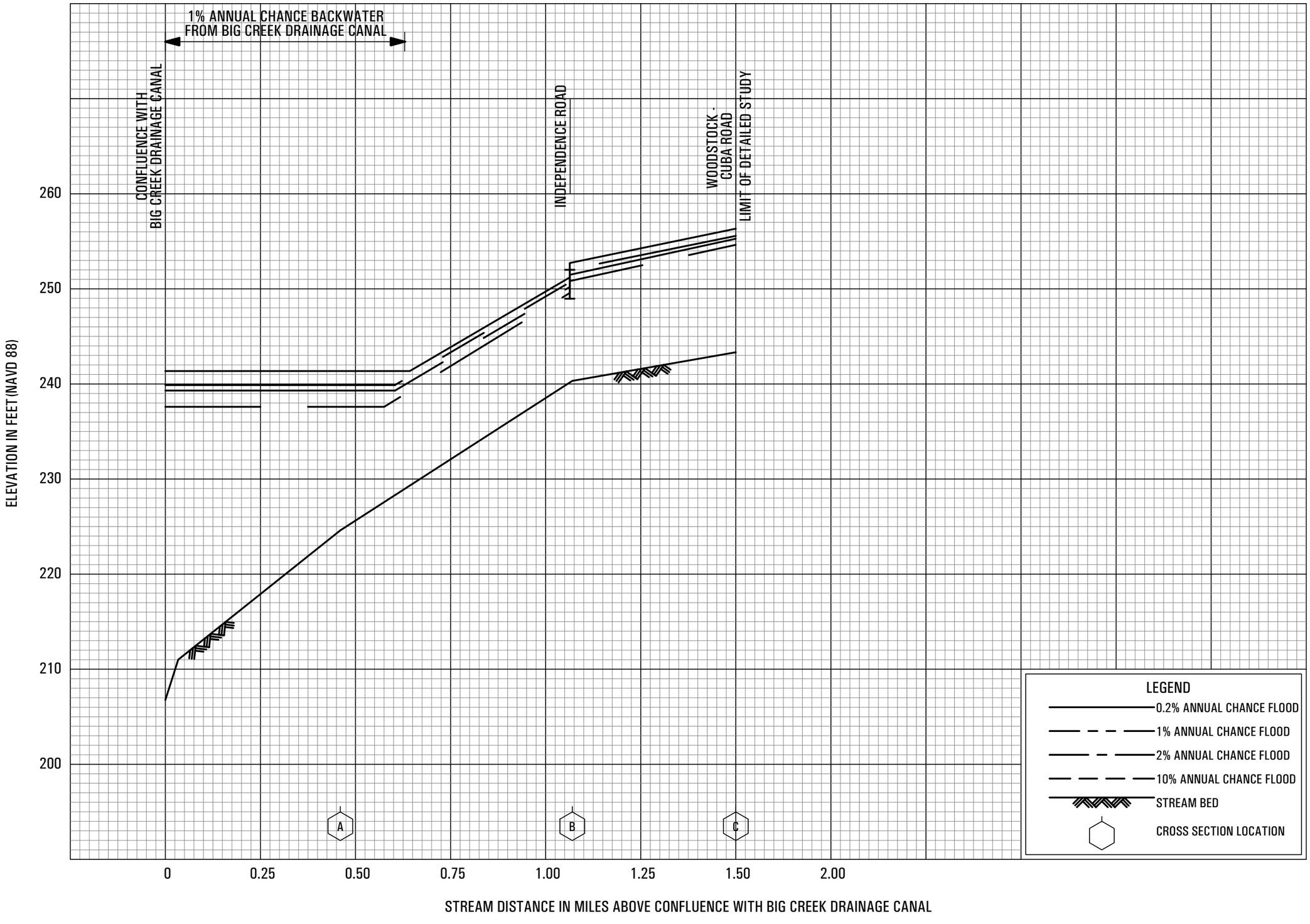
FLOOD PROFILES

BIG CREEK DRAINAGE CANAL

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



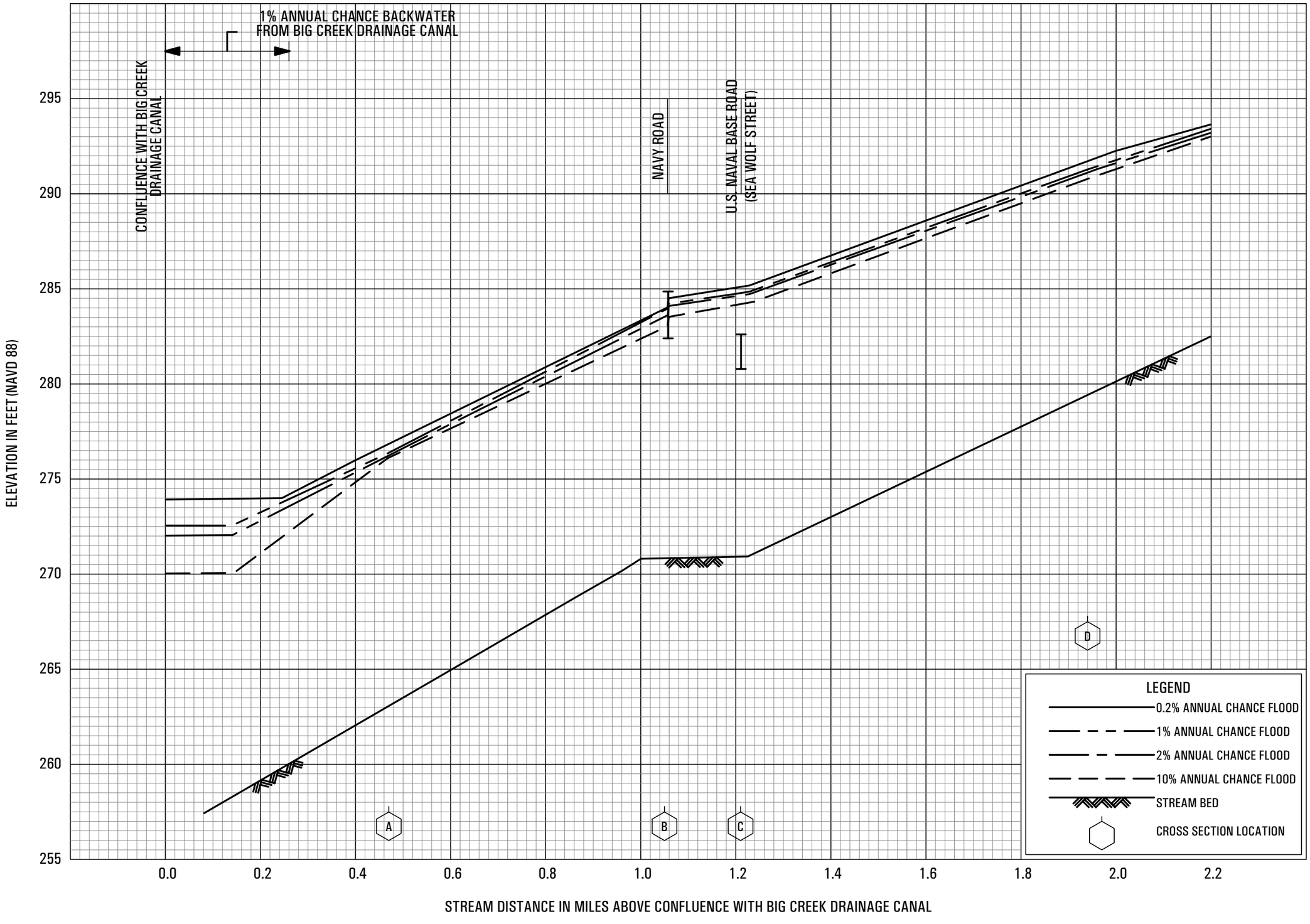
FLOOD PROFILES

BIG CREEK LATERAL A

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



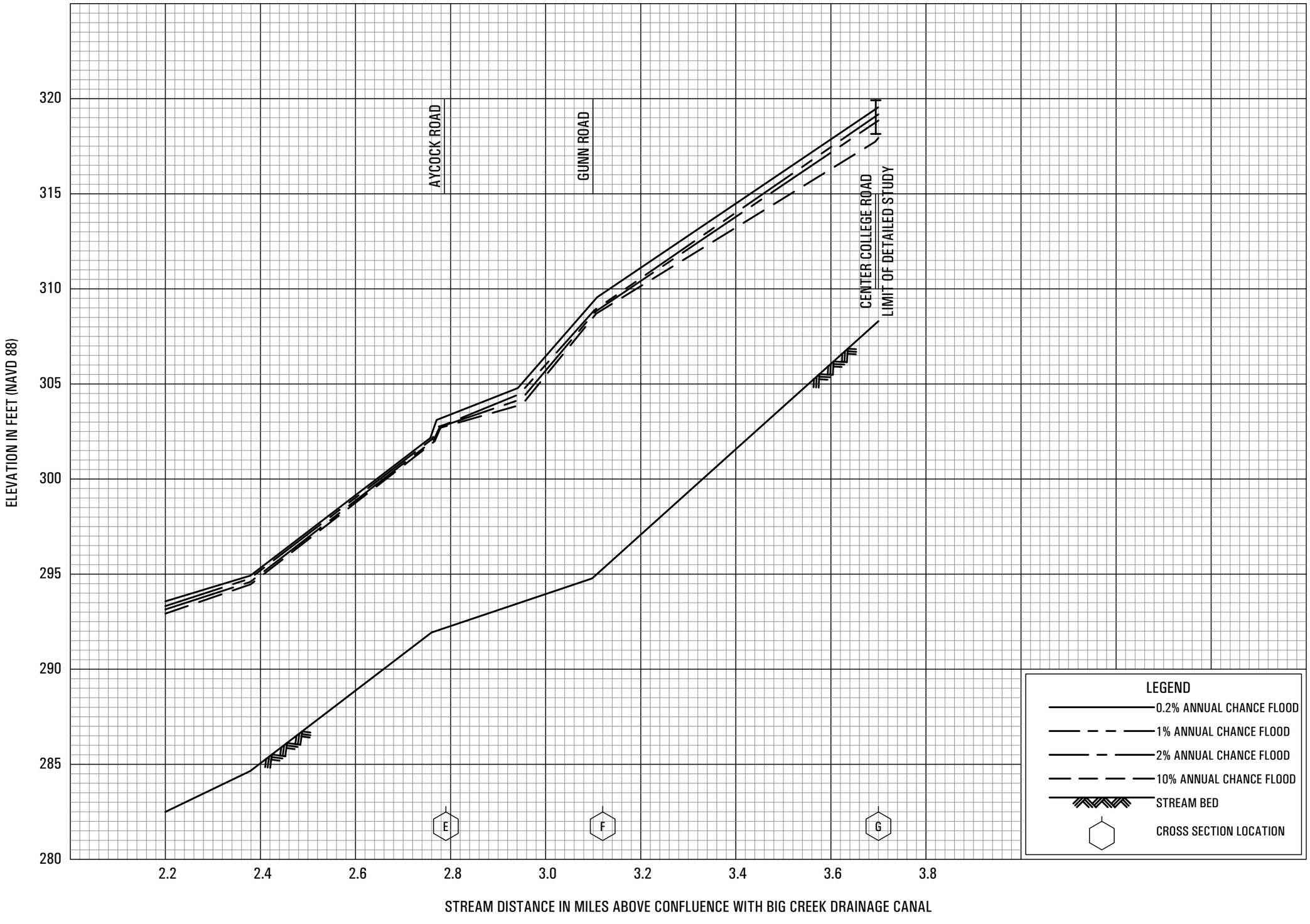
FLOOD PROFILES

CASPER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



FLOOD PROFILES

CASPER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

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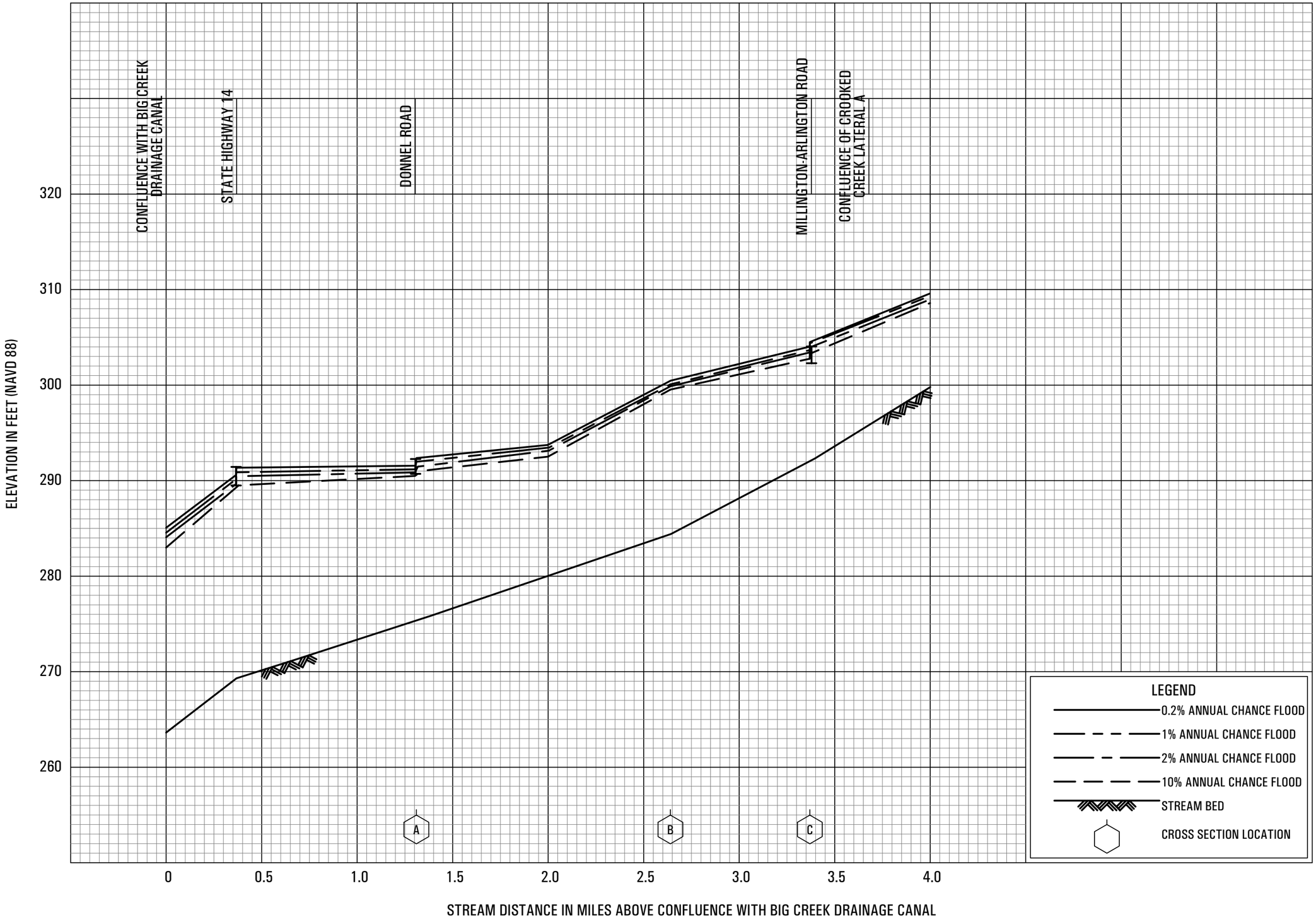


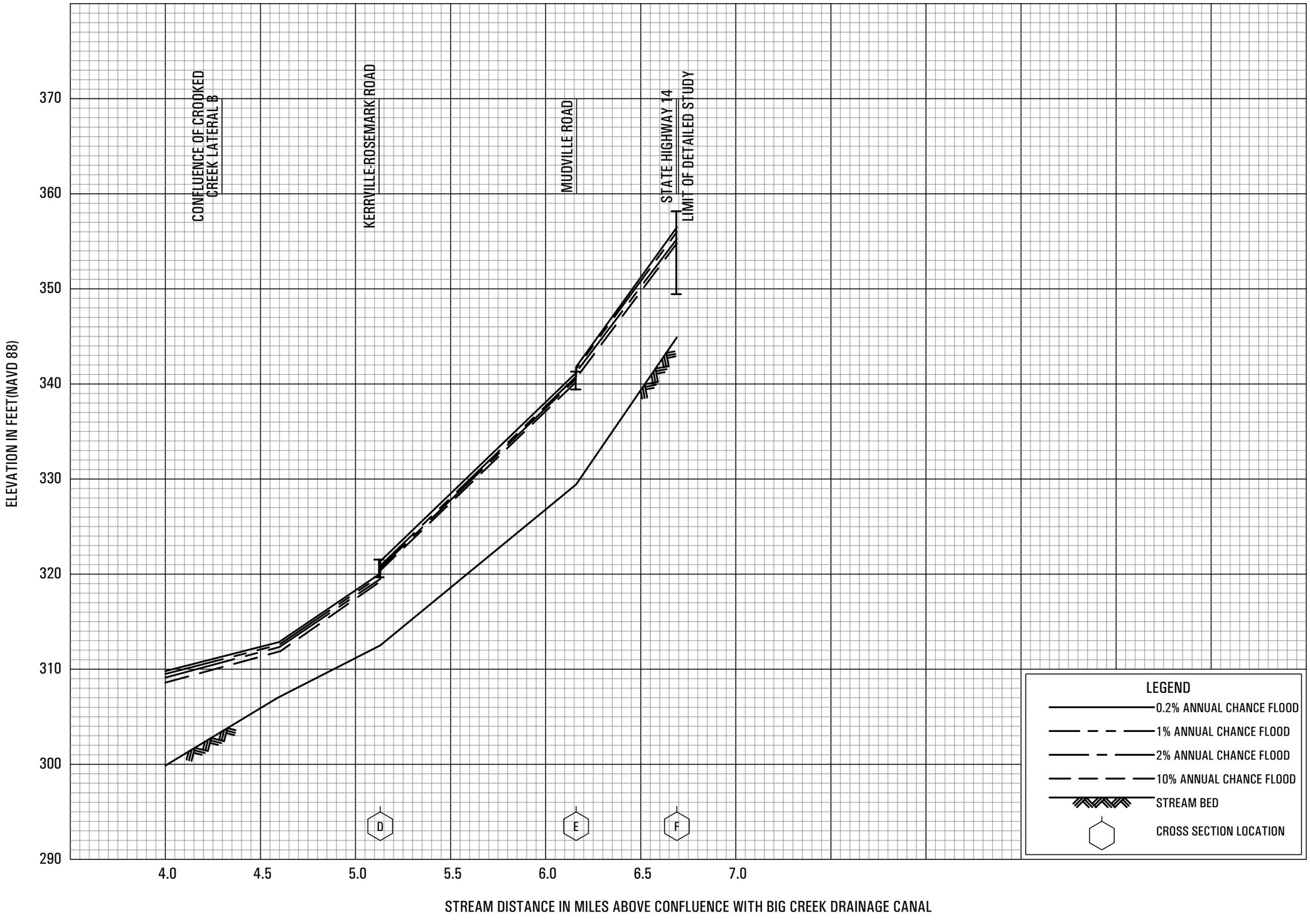
FLOOD PROFILES

CROOKED CREEK DRAINAGE CANAL

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



FLOOD PROFILES

CROOKED CREEK DRAINAGE CANAL

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

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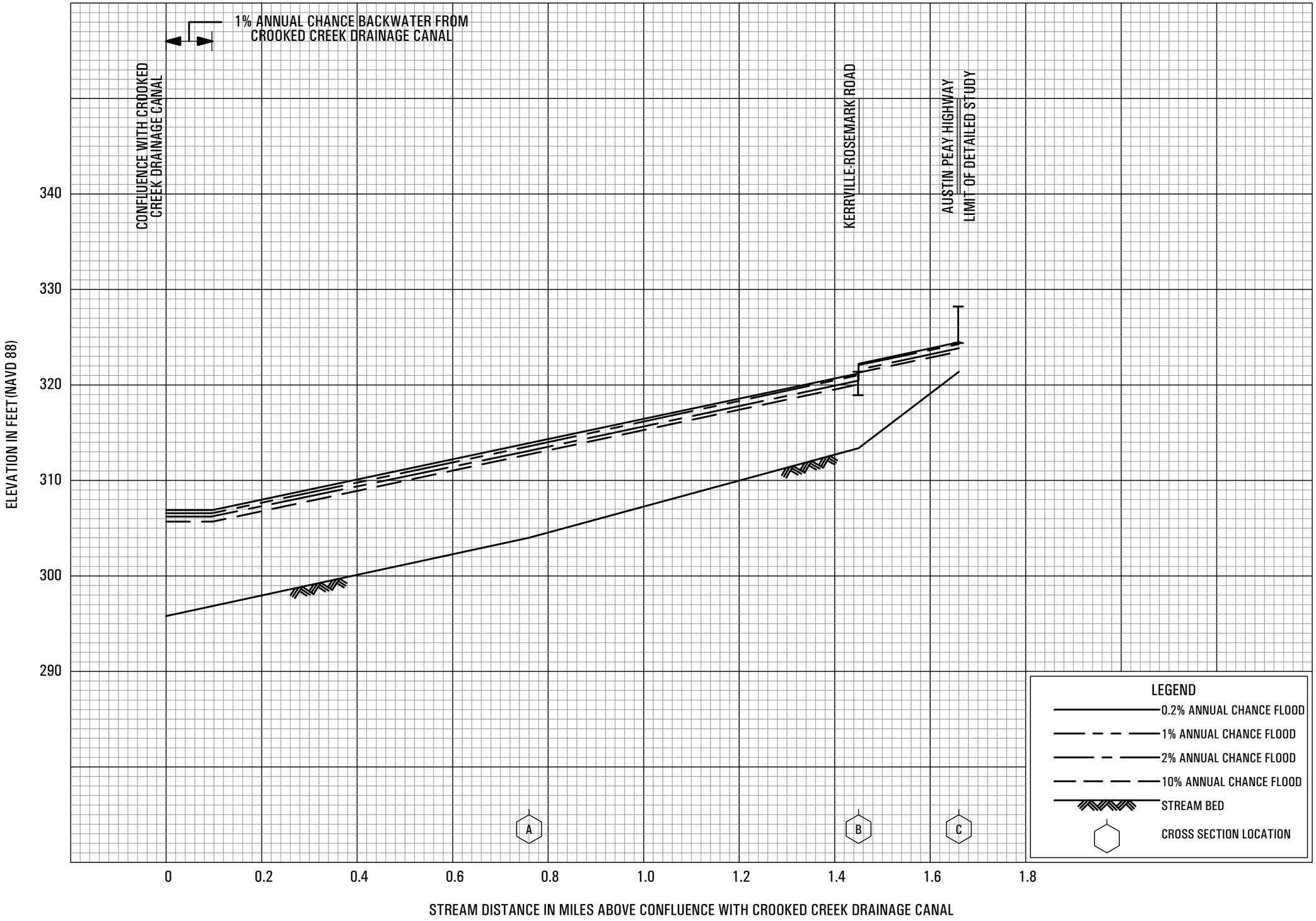


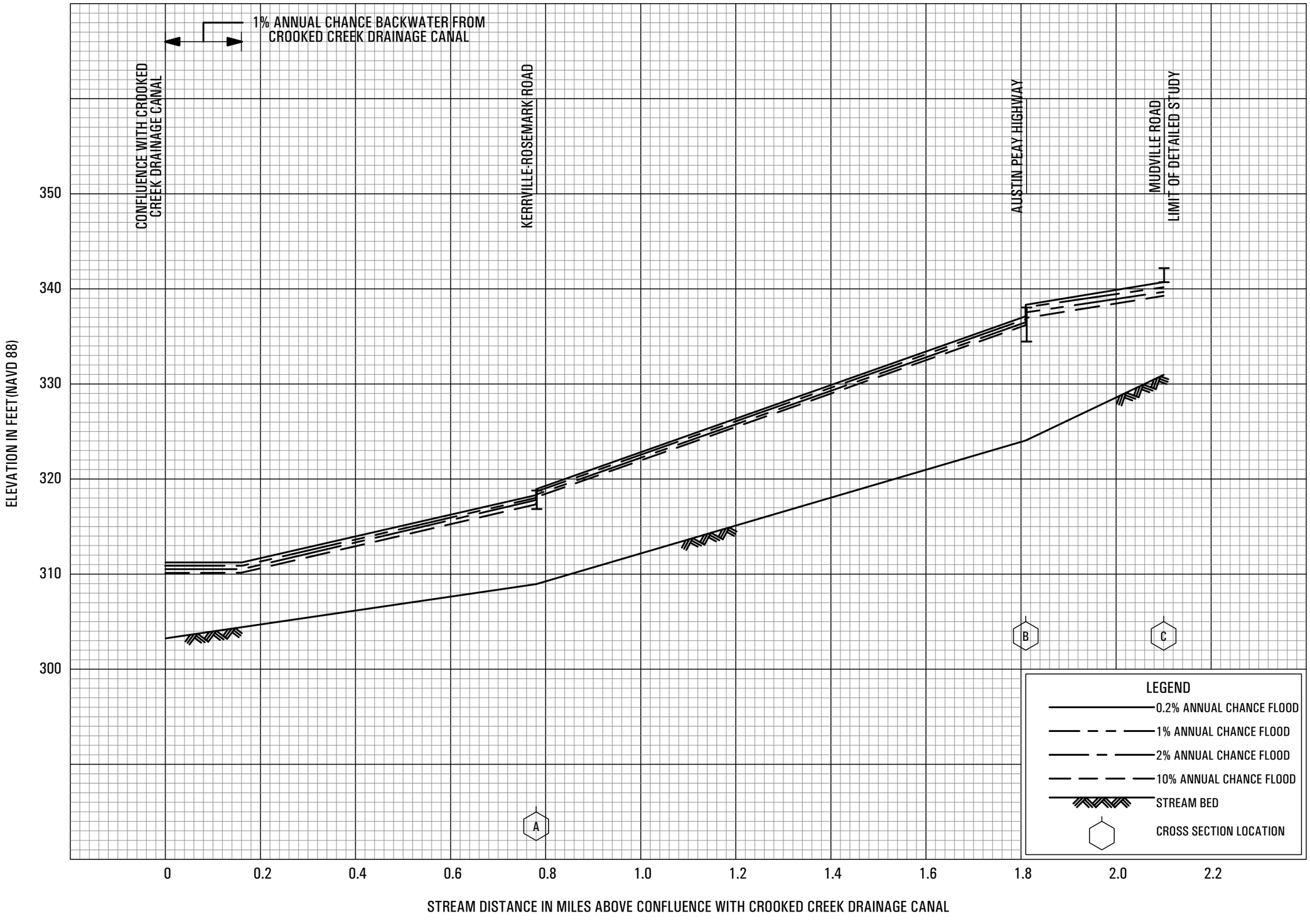
FLOOD PROFILES

CROOKED CREEK LATERAL A

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



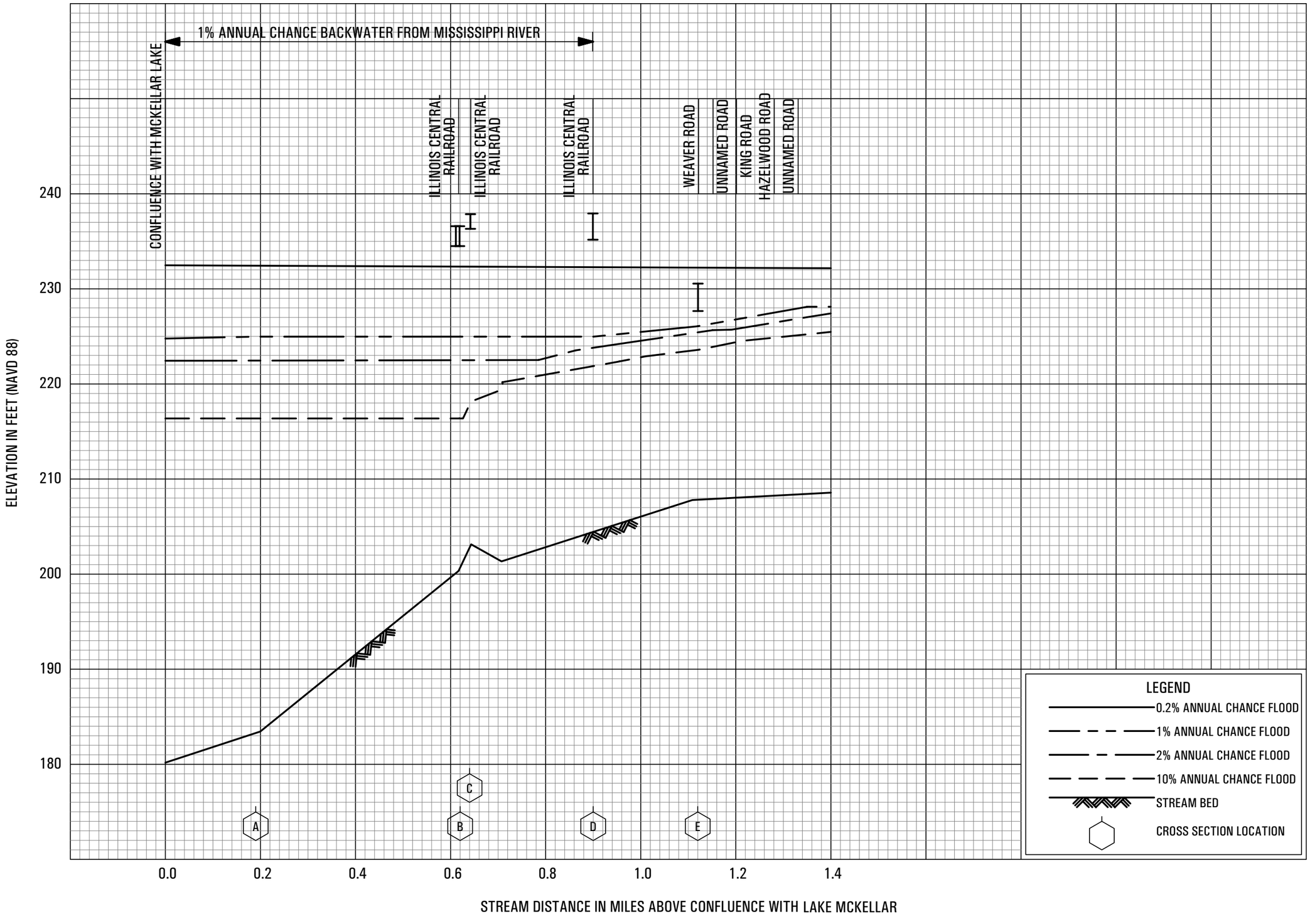
FLOOD PROFILES

CROOKED CREEK LATERAL B

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



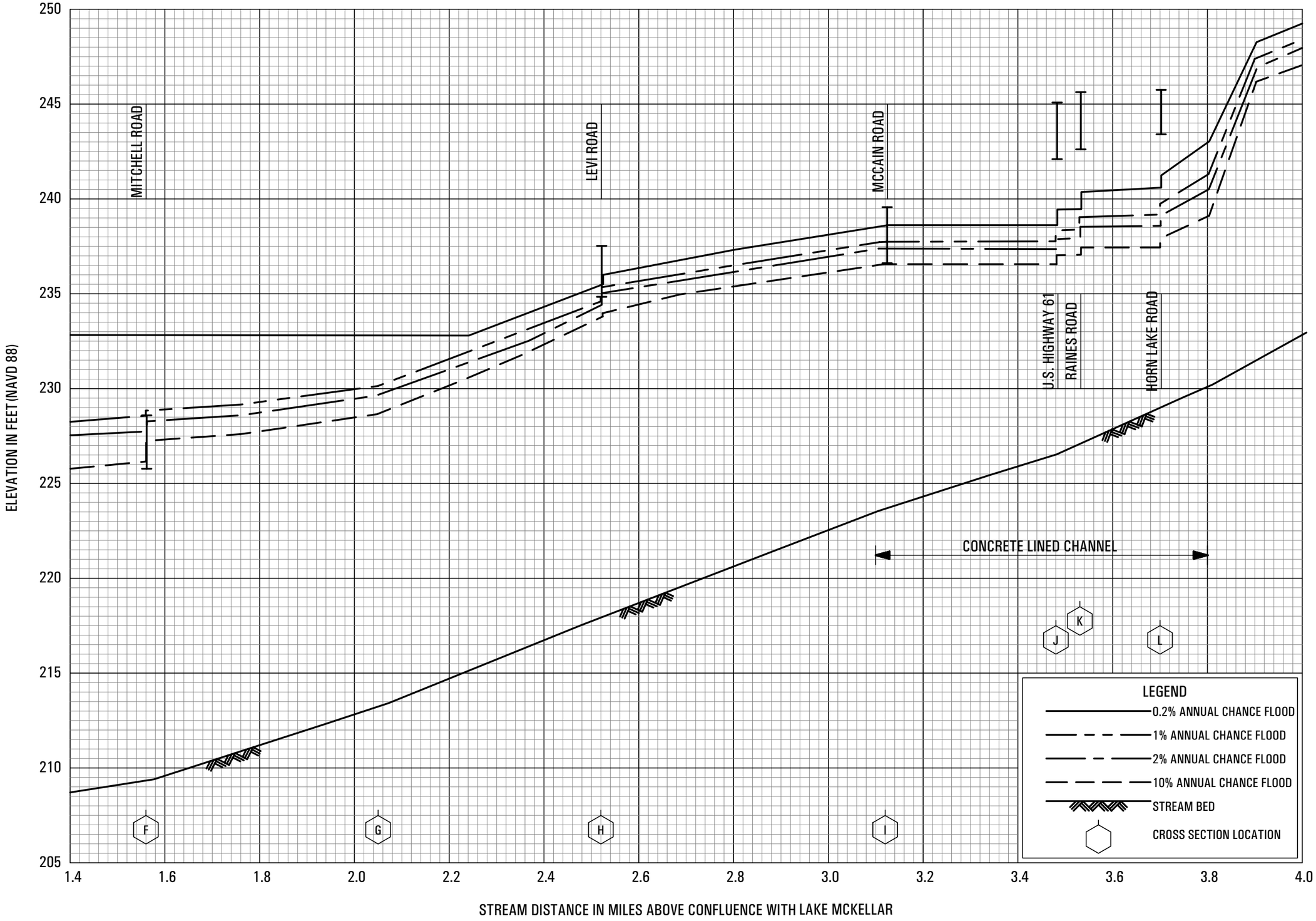
FLOOD PROFILES

CYPRESS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



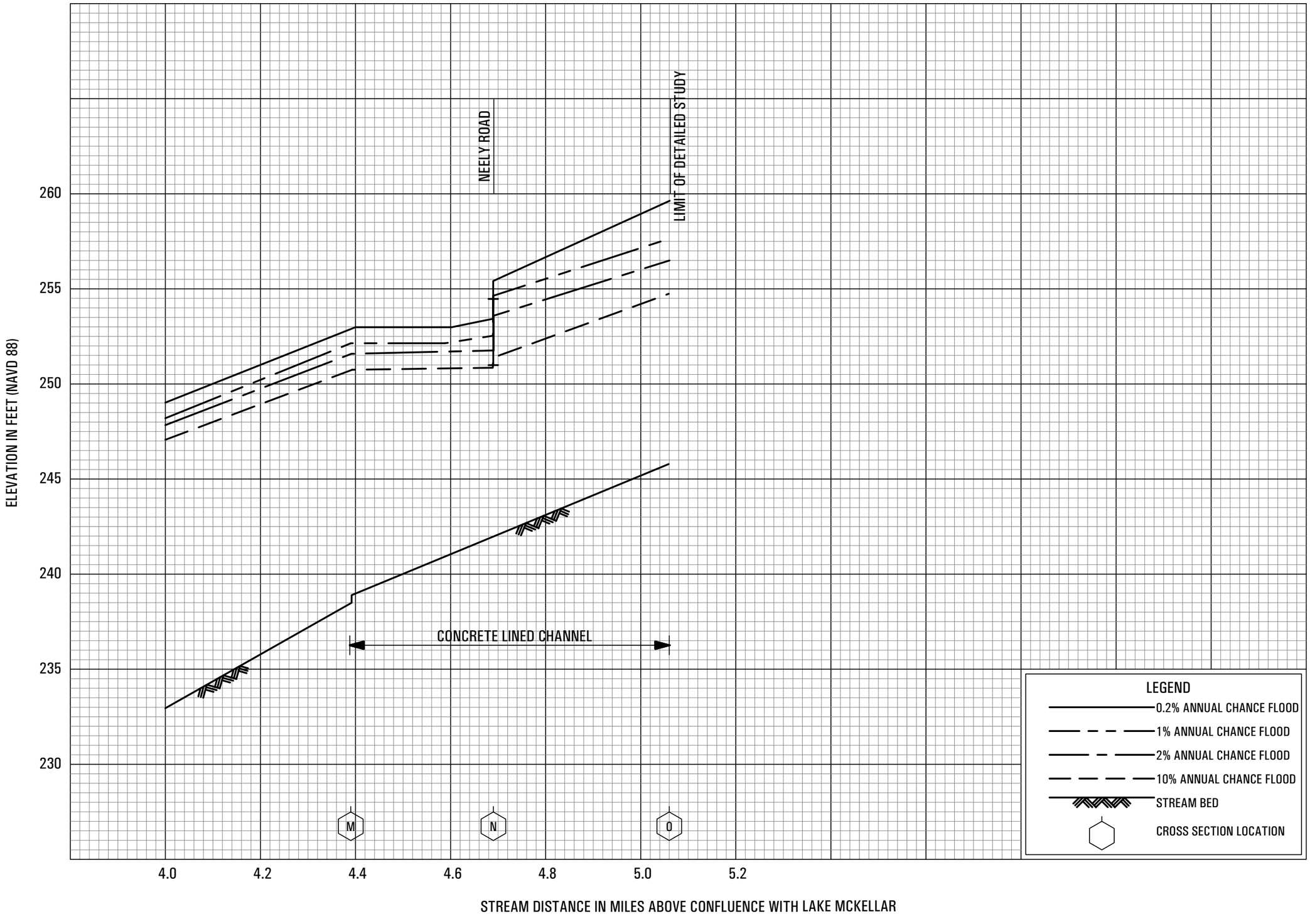
FLOOD PROFILES

CYPRESS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



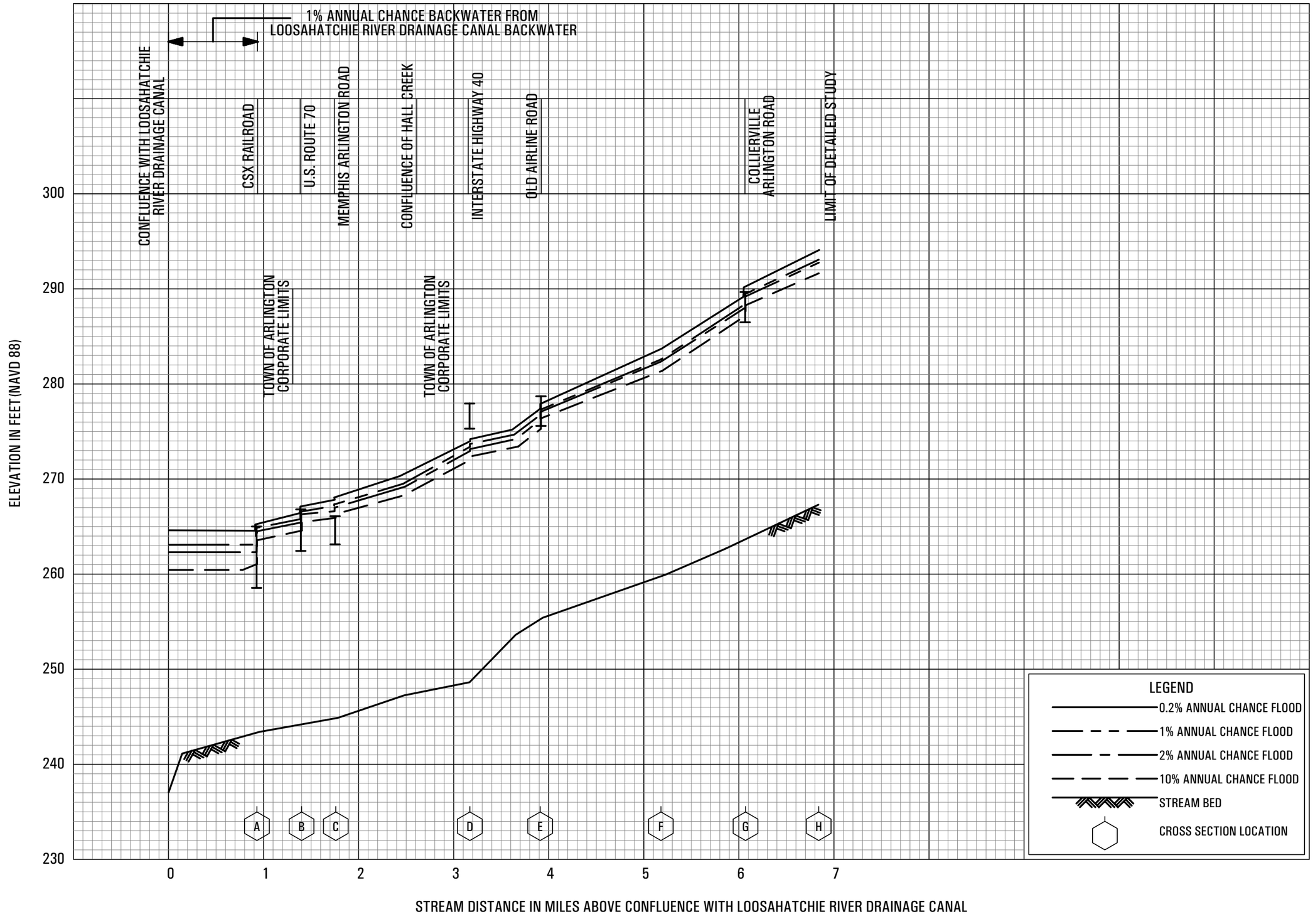
FLOOD PROFILES

CYPRESS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



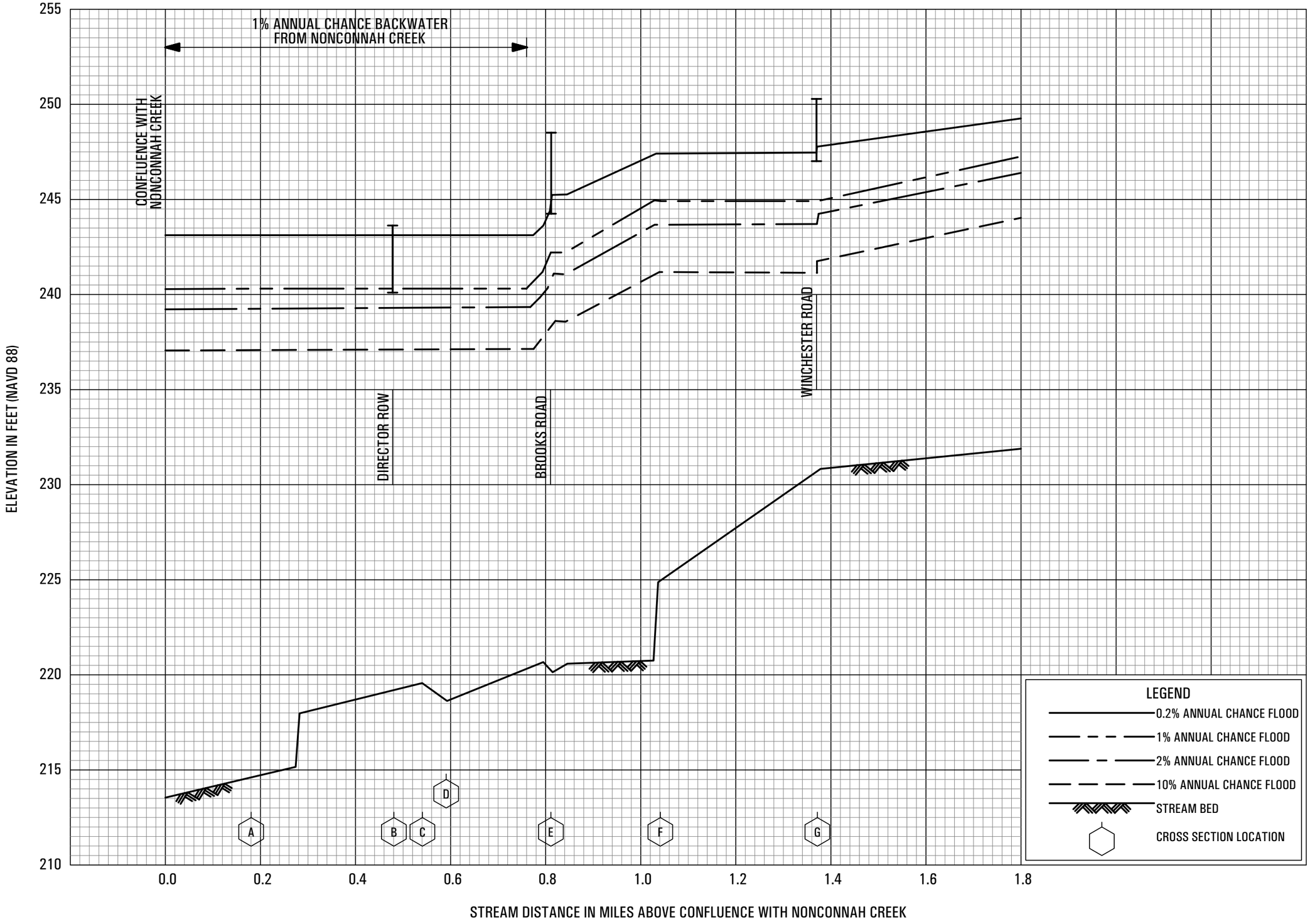
FLOOD PROFILES

CYPRESS CREEK DRAINAGE CANAL

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



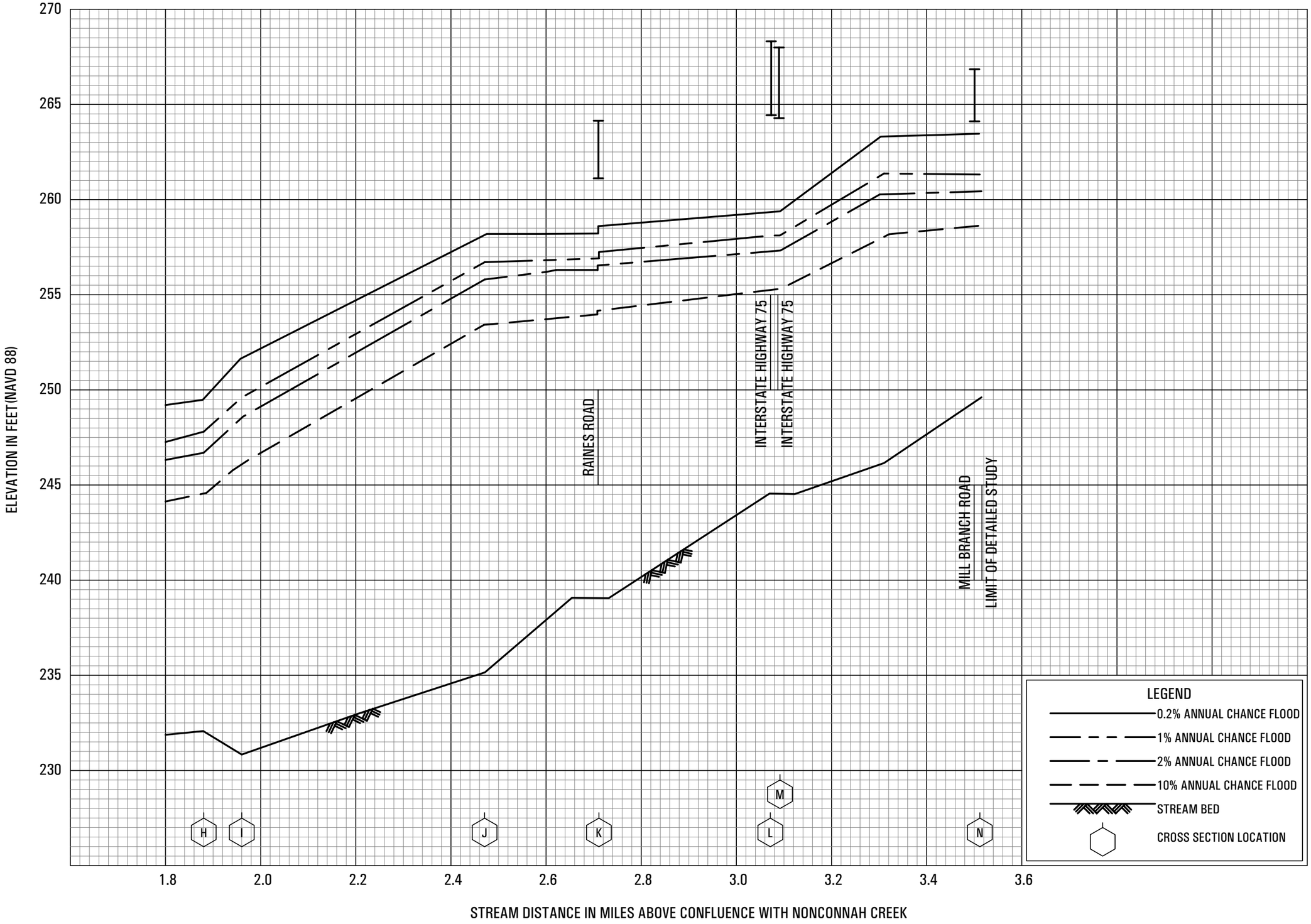
FLOOD PROFILES

DAYS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



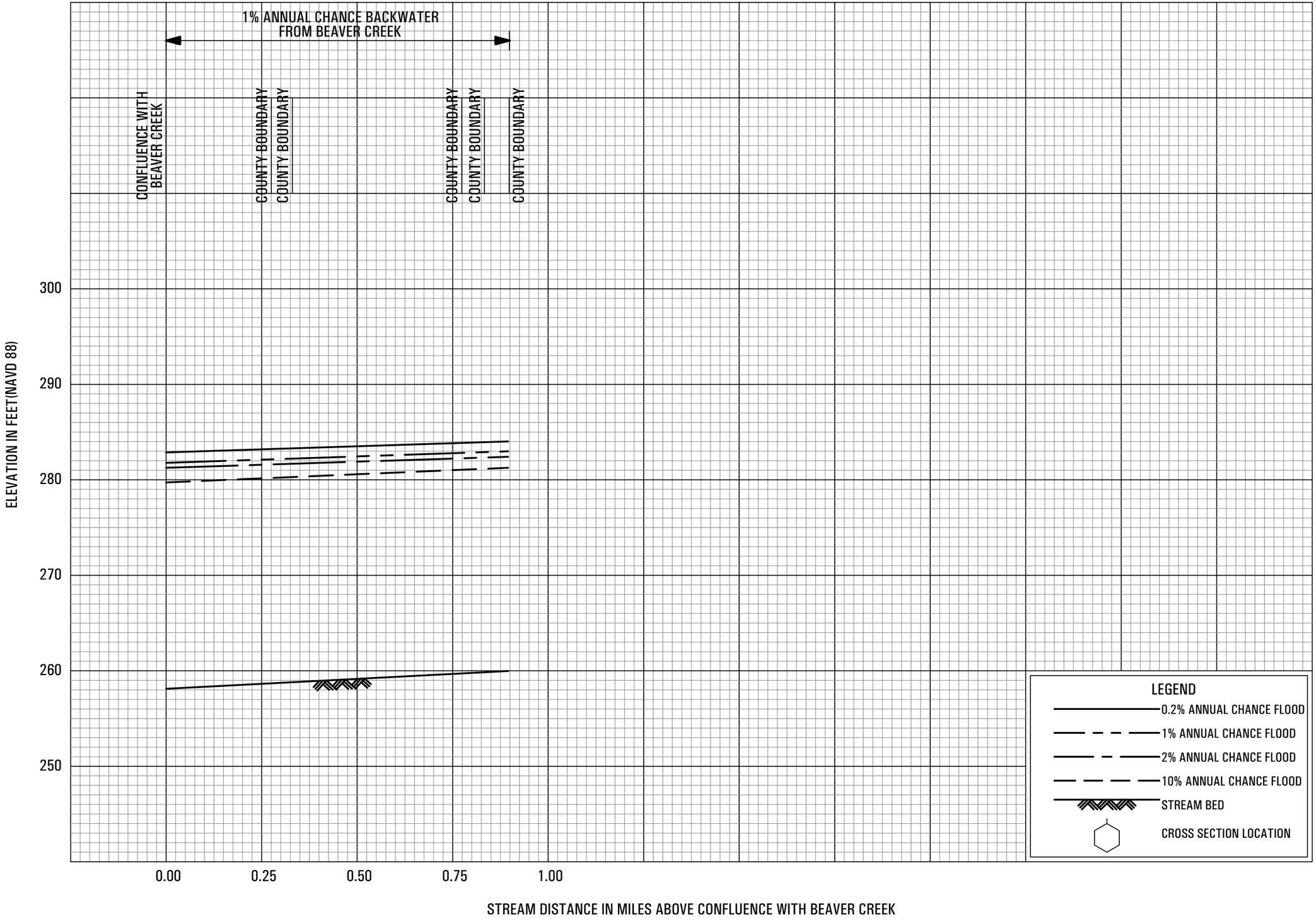
FLOOD PROFILES

DAYS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



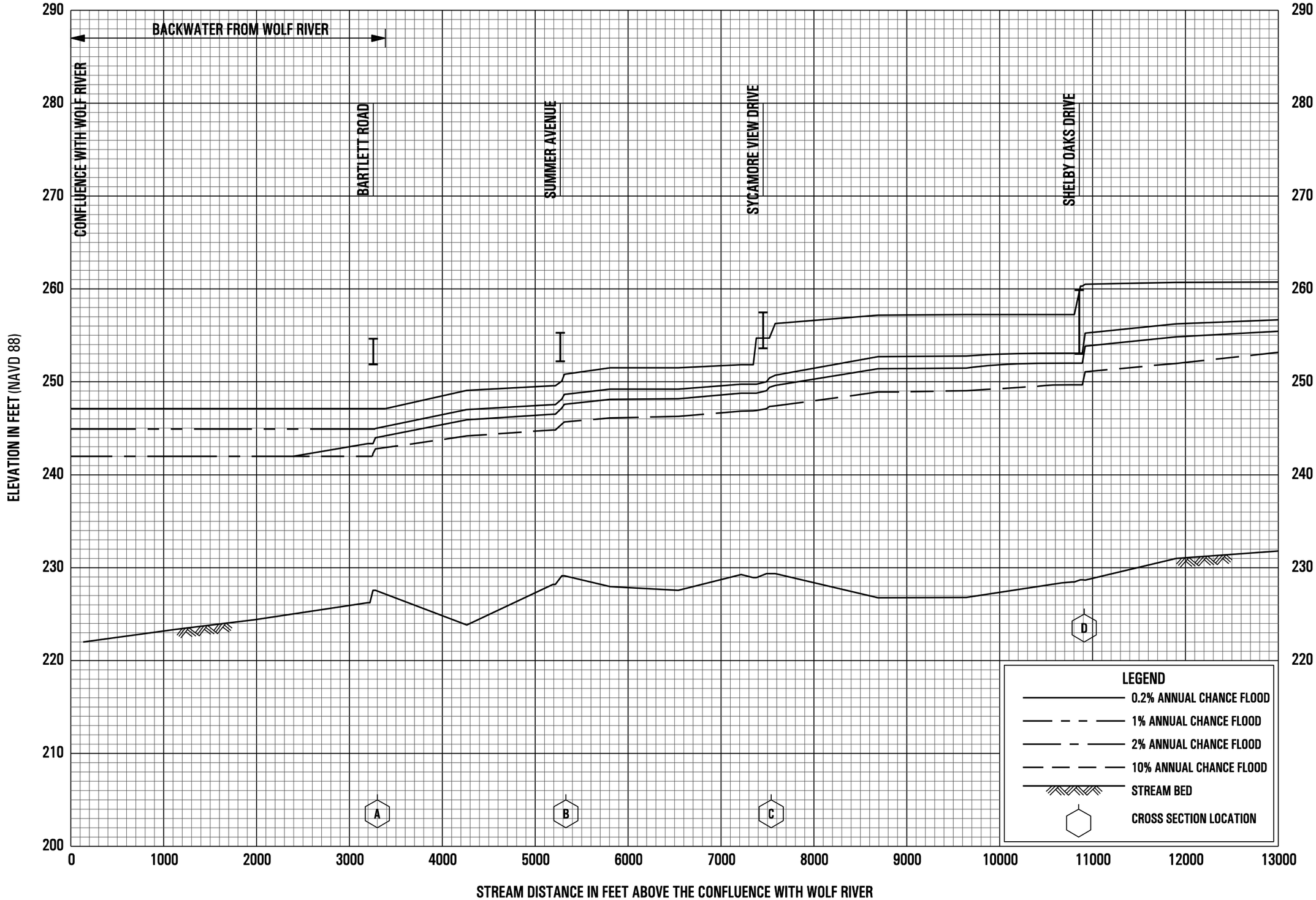
FLOOD PROFILES

EAST BEAVER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



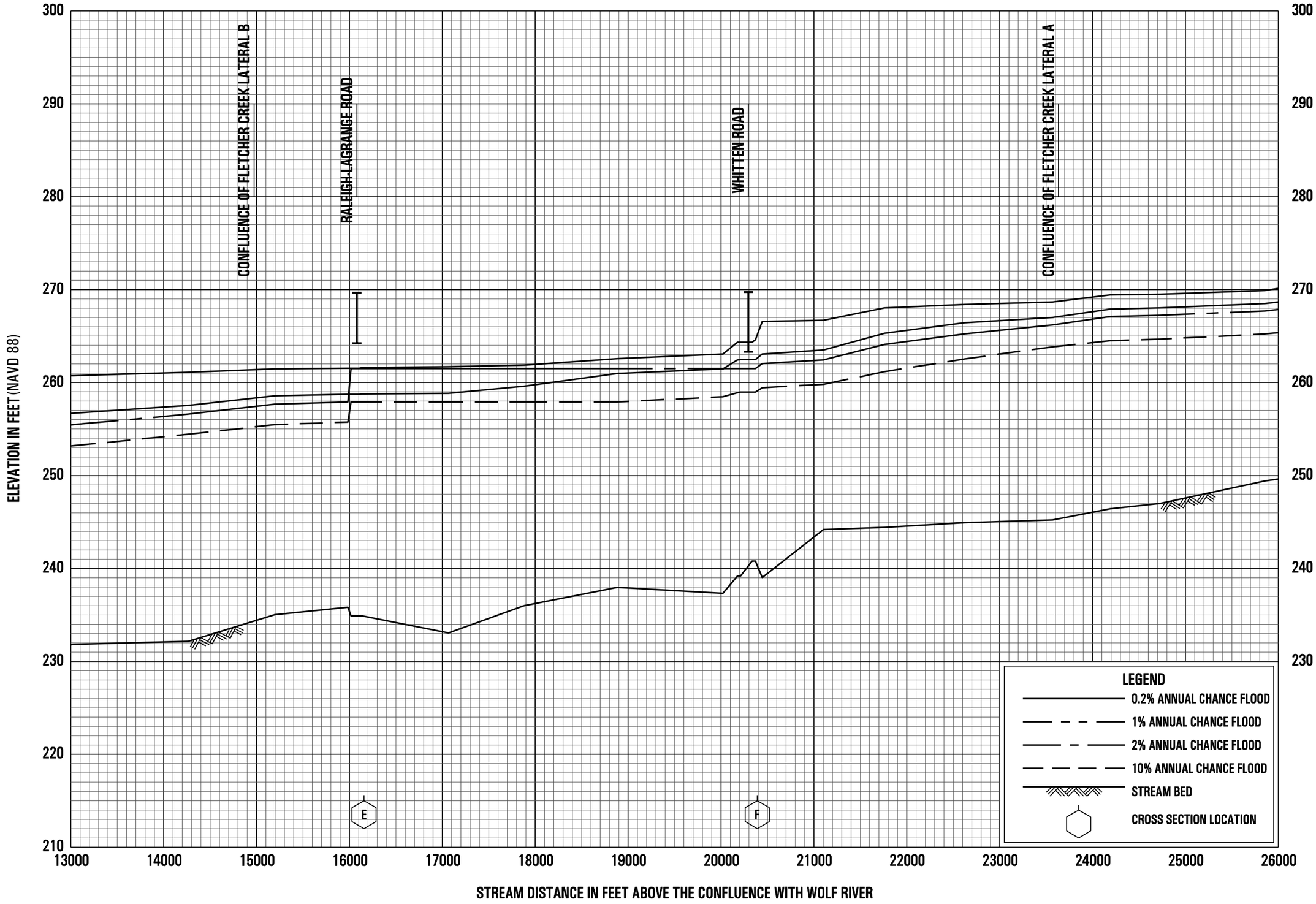
FLOOD PROFILES

FLETCHER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SHELBY COUNTY, TN

AND INCORPORATED AREAS



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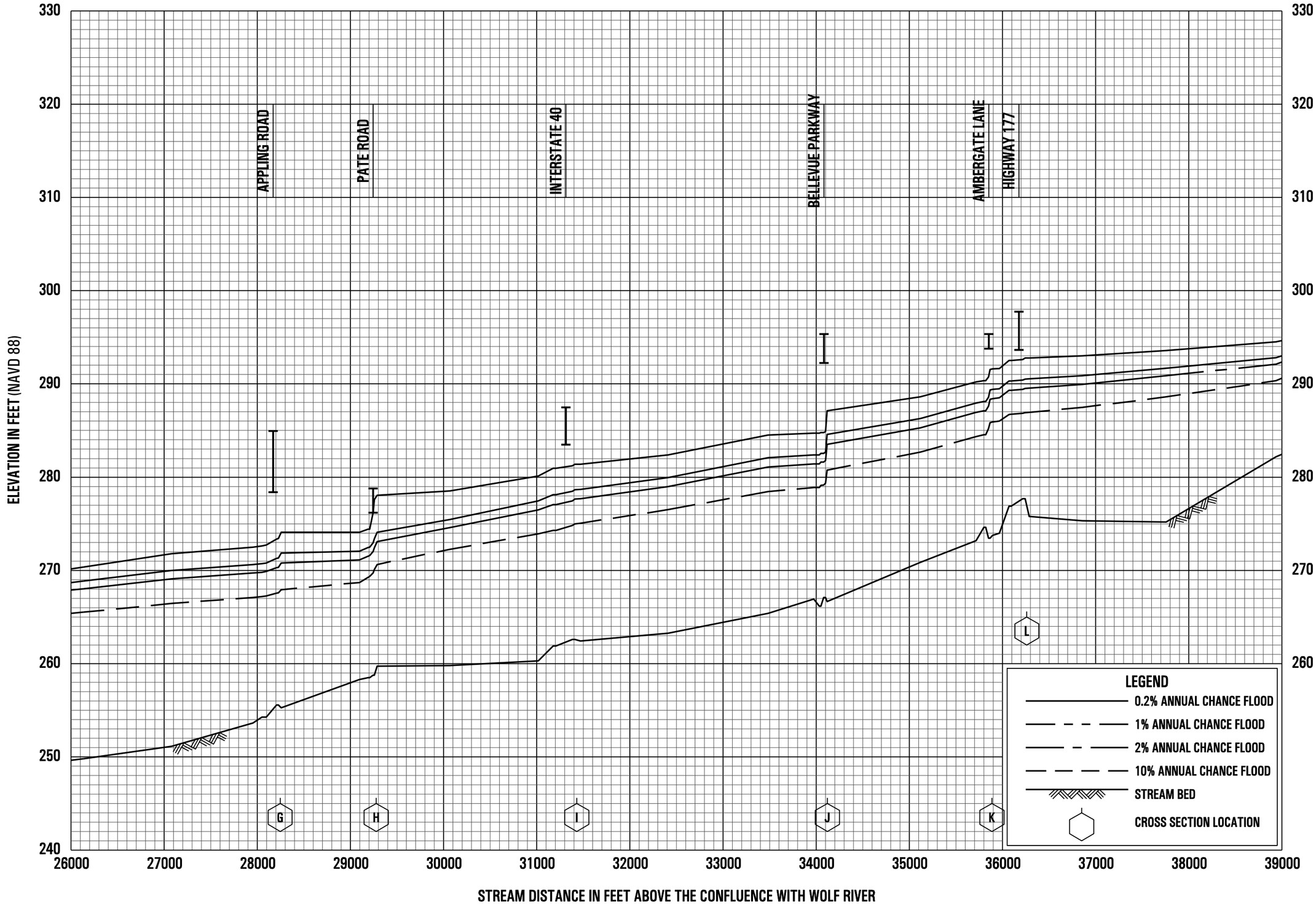

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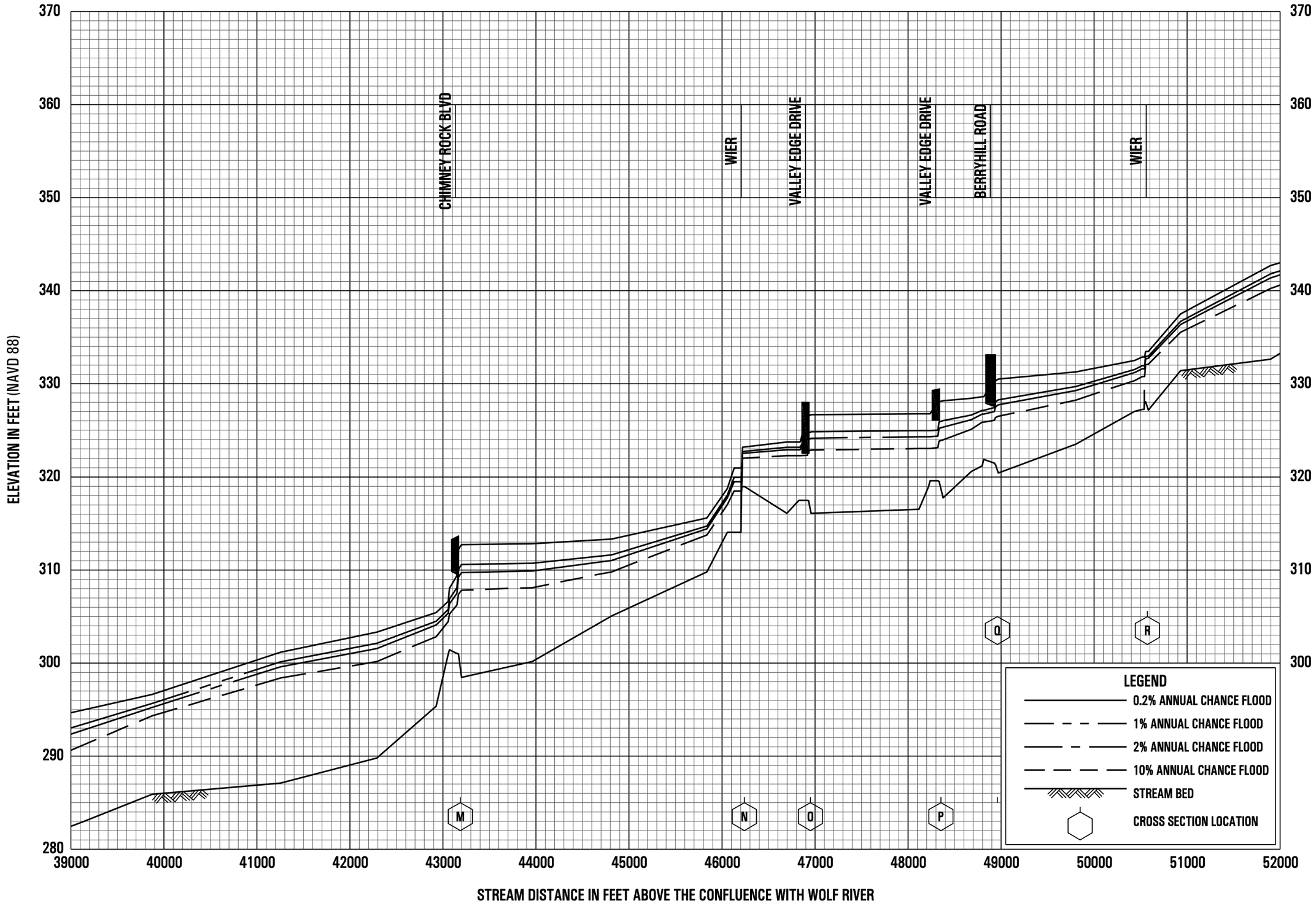

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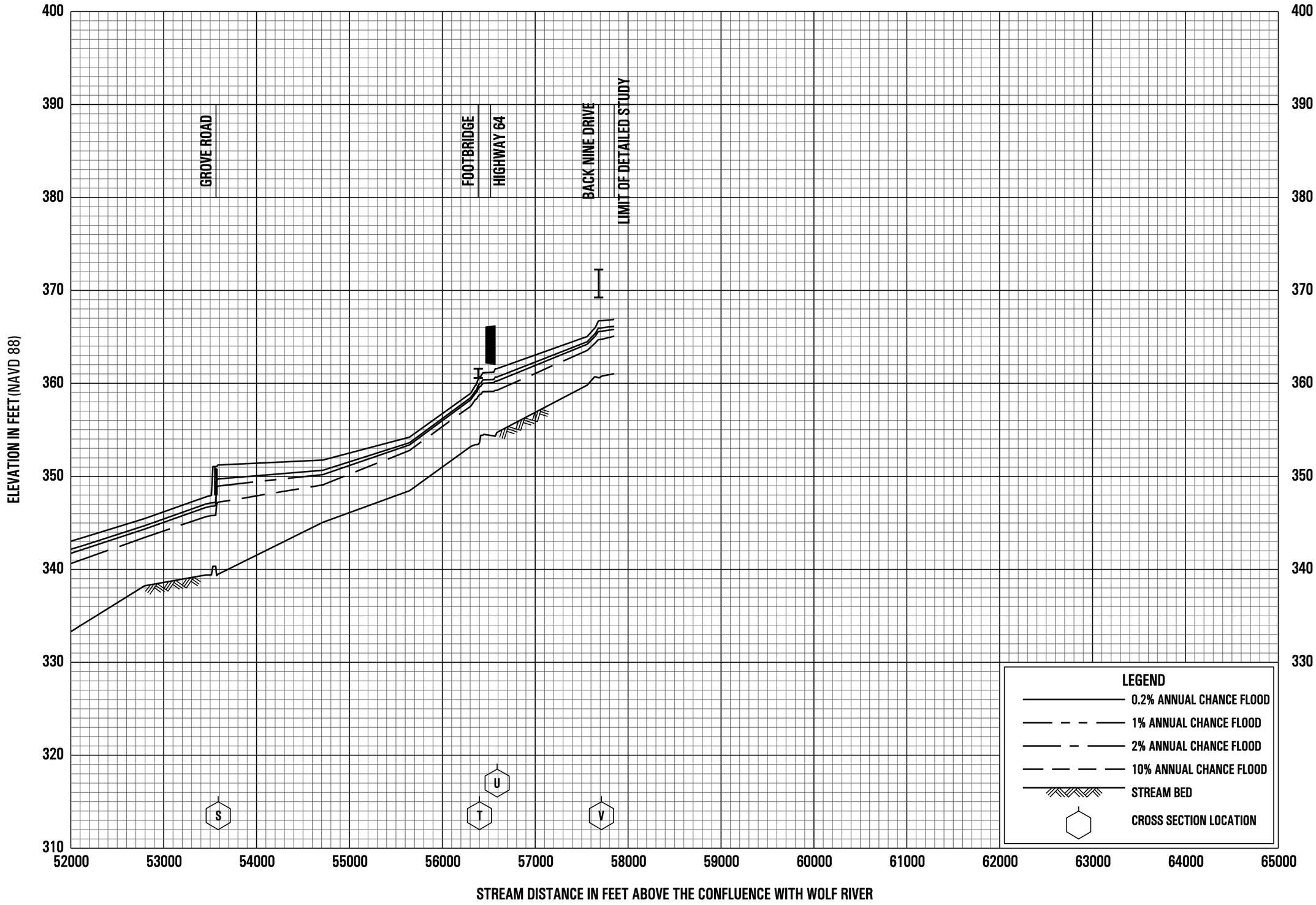

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