

FLOOD INSURANCE STUDY



KNOX COUNTY, TENNESSEE, AND INCORPORATED AREAS

VOLUME 2 OF 4

Community Name	Community Number
FARRAGUT, TOWN OF	470387
KNOXVILLE, CITY OF	475434
KNOX COUNTY (UNINCORPORATED AREAS)	475433



Knox County

REVISED: August 5, 2013



Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
47093CV002B

**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.

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

This FIS report was revised on August 5, 2013. Users should refer to Section 10.0, Revisions Description, for further information. Section 10.0 is intended to present the most up-to-date information for specific portions of this FIS report. Therefore, users of this report should be aware that the information presented in Section 10.0 supersedes information in Sections 1.0 through 9.0 of this FIS report.

Initial Countywide FIS Effective Date: May 2, 2007

First Revised Countywide FIS Revision Date: August 5, 2013

TABLE OF CONTENTS – Volume 1 – August 5, 2013

1.0	INTRODUCTION	1
1.1	Purpose of Study	1
1.2	Authority and Acknowledgments	1
1.3	Coordination	2
2.0	AREA STUDIED	3
2.1	Scope of Study	3
2.2	Community Description	9
2.3	Principal Flood Problems	11
2.4	Flood Protection Measures	14
3.0	ENGINEERING METHODS	15
3.1	Hydrologic Analyses	15
3.2	Hydraulic Analyses	29
3.3	Vertical Datum	34
4.0	FLOODPLAIN MANAGEMENT APPLICATIONS	35
4.1	Floodplain Boundaries	35
4.2	Floodways	36
5.0	INSURANCE APPLICATIONS	91
6.0	FLOOD INSURANCE RATE MAP	93
7.0	OTHER STUDIES	93
8.0	LOCATION OF DATA	94
9.0	REFERENCES AND BIBLIOGRAPHY	96
10.0	REVISION DESCRIPTIONS	98
10.1	First Revision (Revised August 5, 2013)	99
	a. Acknowledgements	99
	b. Coordination	99

TABLE OF CONTENTS – Volume 1 – continued

	<u>Page</u>
c. Scope	99
d. Principal Flood Problems	100
e. Flood Protection Measures	100
f. Hydrologic and Hydraulic Analyses	101
g. Floodplain Boundaries	105
h. Floodways	105
i. Bibliography and References	120

FIGURE

Figure 1 – Floodway Schematic	91
-------------------------------	----

TABLES

Table 1 – CCO Meeting Dates for Precountywide FISs	2
Table 2 – Flooding Sources Studied by Detailed Methods for the January 17, 1991, City of Knoxville FIS	3
Table 3 – Flooding Sources Studied by Detailed Methods for the August 16, 1984, Town of Farragut FIS	3
Table 4 – Flooding Sources Studied by Detailed Methods for the November 16, 1982, Knox County (Unincorporated Areas) FIS	3
Table 5 – Stream Name Changes	4
Table 6 – Streams Studied by Detailed Methods for this Countywide Study	4-5
Table 7 – Scope of Revision	5-9
Table 8 – Gaging Stations	16-17
Table 9 – Summary of Discharges	20-29
Table 10 – Comparison of Effective and Revised Elevations and Discharges	30-31
Table 11 – Predicted Frequency Stages at the Ebenezer Cave Sinkhole	32
Table 12 – Range of Manning’s “n” Values	32-33
Table 13 – Conversion from NGVD 29 to NAVD 88	34-35
Table 14 – Floodway Data	37-90
Table 15 – Community Map History	95
Table 16 – First Revision Detailed Study Scope	100
Table 17 – Revised Summary of Peak Discharges	102-103
Table 18 – Revised Manning’s “n” Values	104
Table 19 – Revised Floodway Data	106-119

TABLE OF CONTENTS – Volume 2 – August 5, 2013

EXHIBITS

Exhibit 1 – Flood Profiles

Beaver Creek	Panels 01P – 10P
Berry Branch	Panel 11P
Brice Branch	Panel 12P
Bullrun Creek	Panels 13P – 14P
Burnett Creek	Panels 15P – 16P
Clift Creek	Panels 17P – 20P
Conner Creek	Panels 21P – 25P
Cox Creek	Panels 26P – 28P
East Fork Third Creek	Panels 29P – 30P
Echo Valley Tributary	Panel 31P
First Creek	Panels 32P – 37P
First Creek (Bypass Channel)	Panel 38P
Flat Creek	Panels 39P – 48P
Fourth Creek	Panels 49P – 52
French Broad River	Panels 53P – 56P
Goose Creek	Panels 57P – 58P
Grassy Creek	Panels 59P – 62P
Hickory Creek	Panels 63P – 69P
Hines Branch	Panels 70P – 71P
Hines Creek	Panels 72P – 75P

TABLE OF CONTENTS – Volume 3 - August 5, 2013

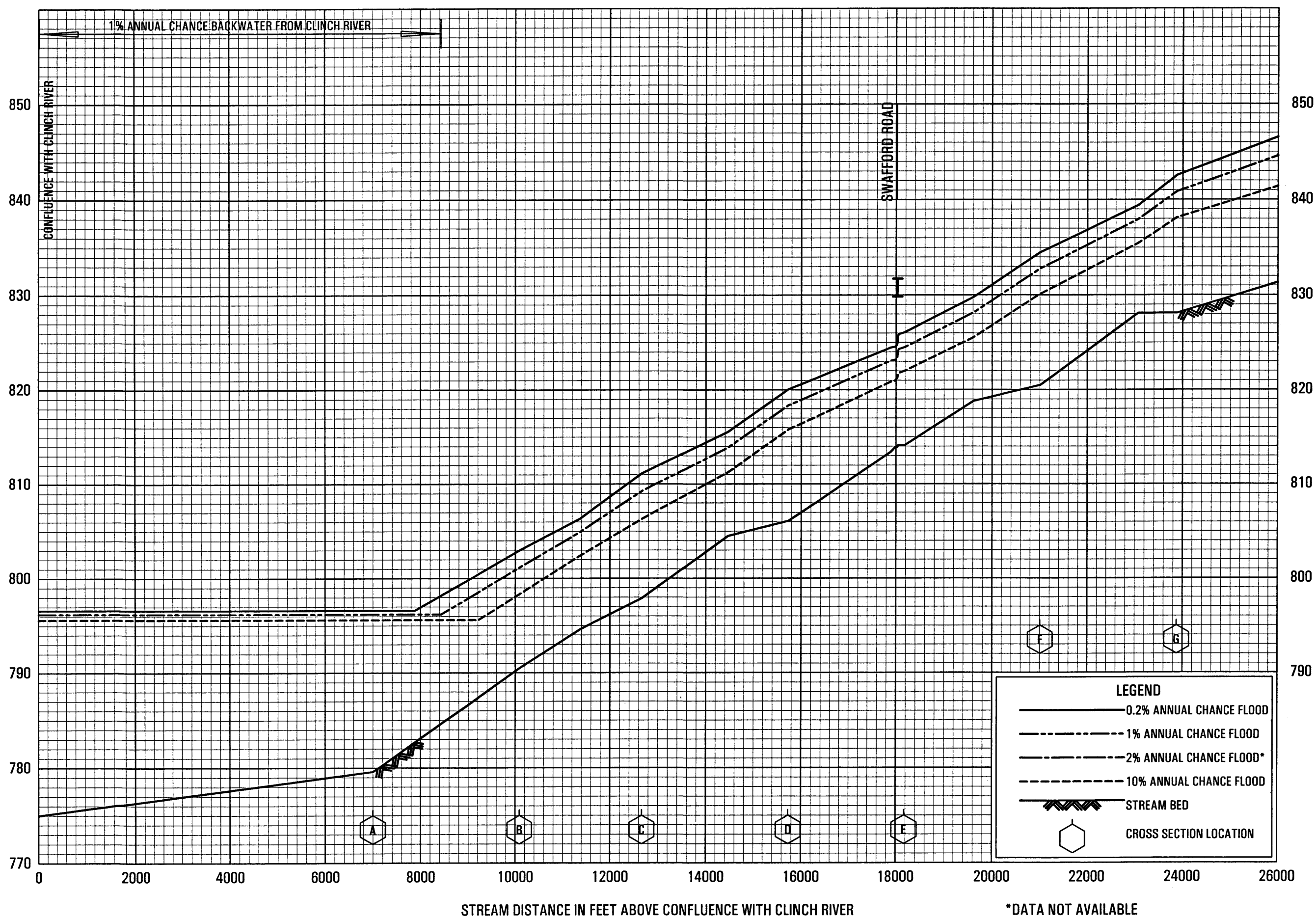
Exhibit 1 – Flood Profiles -- continued

Holston River	Panels 76P – 79P
Kerns Branch	Panels 80P – 81P
Knob Creek	Panels 82P – 86P
Knob Fork	Panels 87P – 90P
Limestone Creek	Panels 91P – 94P
Little Flat Creek	Panels 95P – 103P
Little River	Panel 104P
Little Turkey Creek	Panels 105P – 108P
Love Creek	Panels 109P – 110P
Lyon Creek	Panels 111P – 114P
Mill Branch	Panels 115P – 117P
Murphy Creek	Panels 118P – 121P
North Fork Beaver Creek	Panels 122P – 123P
North Fork Turkey Creek	Panels 124P – 126P
Plumb Creek	Panels 127P – 128P
Roseberry Creek	Panels 129P – 136P
Second Creek	Panels 137P – 141P

TABLE OF CONTENTS – Volume 4 - August 5, 2013

Exhibit 1 –	Flood Profiles -- continued	
	Sinking Creek	Panels 142P – 144P
	Sinking Creek (Tributary to Ten Mile Creek)	Panels 145P – 146P
	Sixmile Branch	Panel 147P
	South Fork Beaver Creek	Panel 148P
	Stock Creek	Panels 149P – 153P
	Swanpond Creek	Panels 154P – 155P
	Ten Mile Creek	Panels 156P – 160P
	Tennessee River	Panels 161P – 169P
	Third Creek	Panels 170P – 173P
	Thompson School Tributary	Panel 174P
	Tributary No.1 to First Creek	Panel 175P
	Tributary No.2 to First Creek	Panel 176P
	Tributary No.1 to Fourth Creek	Panels 177P – 178P
	Tributary No.2 to Fourth Creek	Panels 179P – 182P
	Tributary No. 3 to Fourth Creek	Panel 183P
	Tributary to Cox Creek	Panel 184P
	Tributary to Goose Creek	Panel 185P
	Tributary to Grassy Creek	Panels 186P – 187P
	Tributary to Hines Creek	Panel 188P
	Tributary to Little Turkey Creek	Panel 189P
	Tributary to Love Creek	Panel 190P
	Tributary to Turkey Creek	Panels 191P – 192P
	Tuckahoe Creek	Panels 193P – 195P
	Turkey Creek	Panels 196P – 200P
	West Hills Tributary	Panels 201P – 203P
	Whites Creek	Panels 204P – 207P
	Williams Creek	Panels 208P – 209P
	Willow Fork	Panels 210P – 213P
Exhibit 2 –	Flood Insurance Rate Map Index	
	Flood Insurance Rate Map	

ELEVATION IN FEET (NAVD 88)



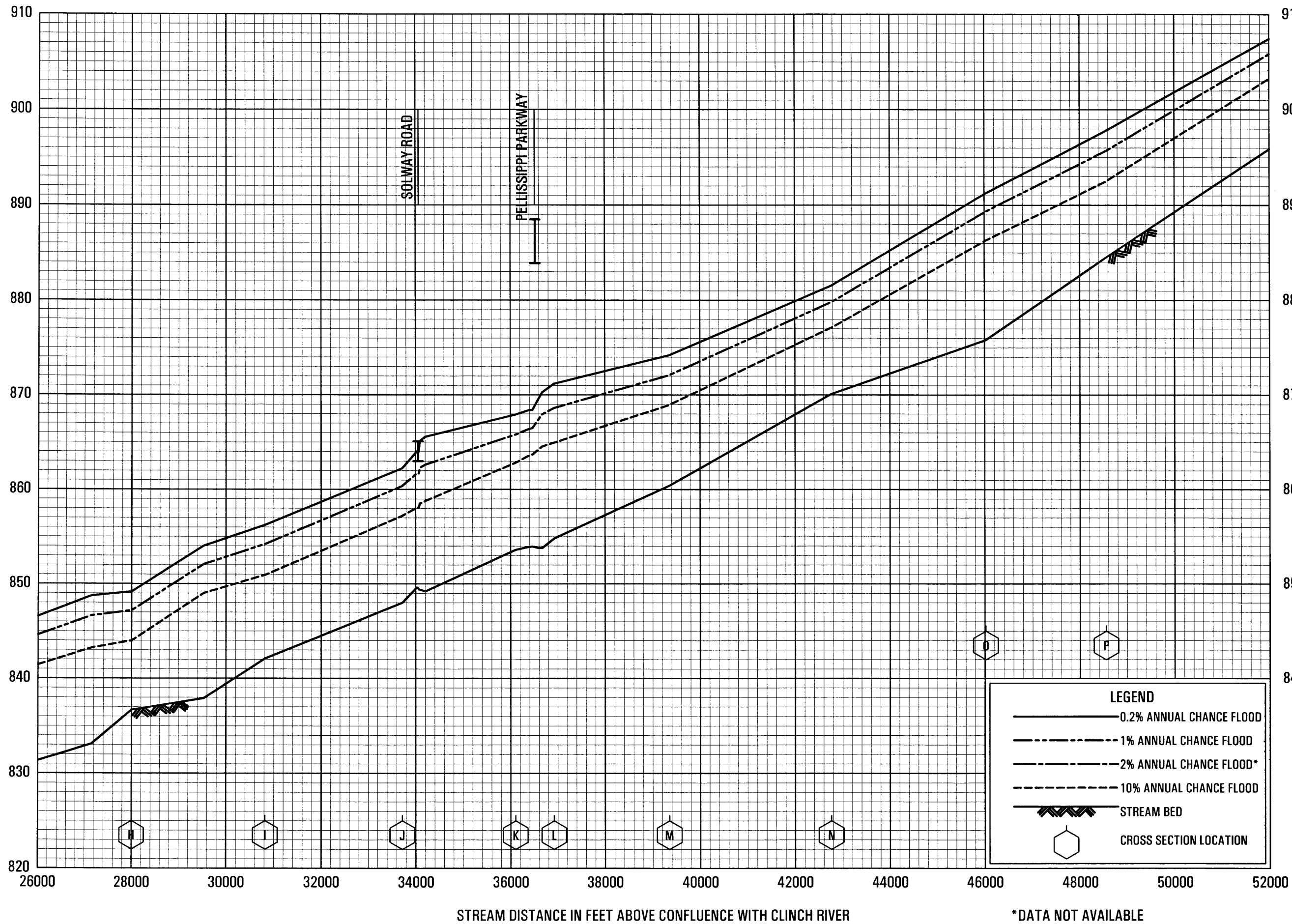
FLOOD PROFILES

BEAVER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

01P

ELEVATION IN FEET (NAVD 88)



FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN

AND INCORPORATED AREAS

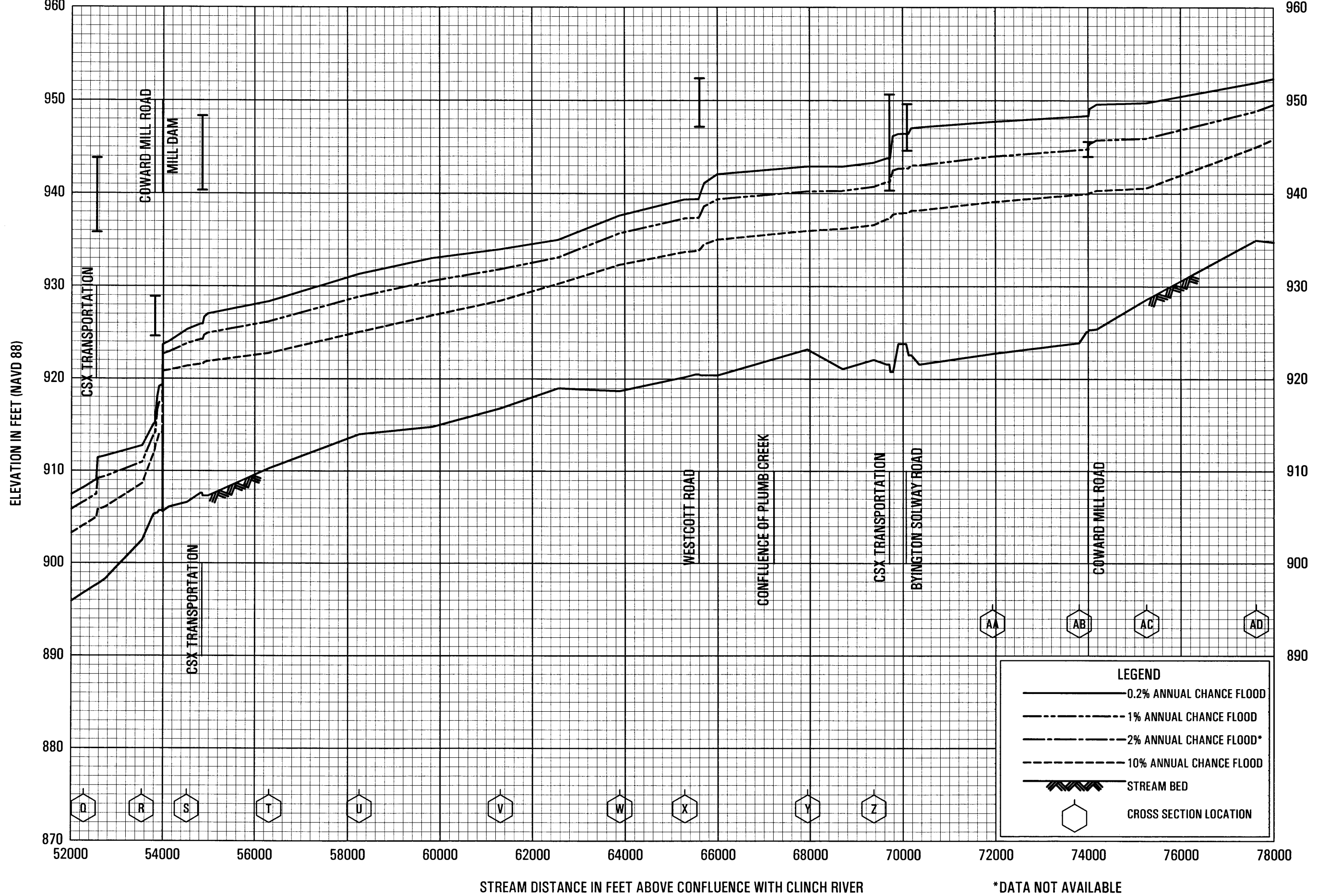
FLOOD PROFILES

BEAVER CREEK

02P

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH CLINCH RIVER

*DATA NOT AVAILABLE

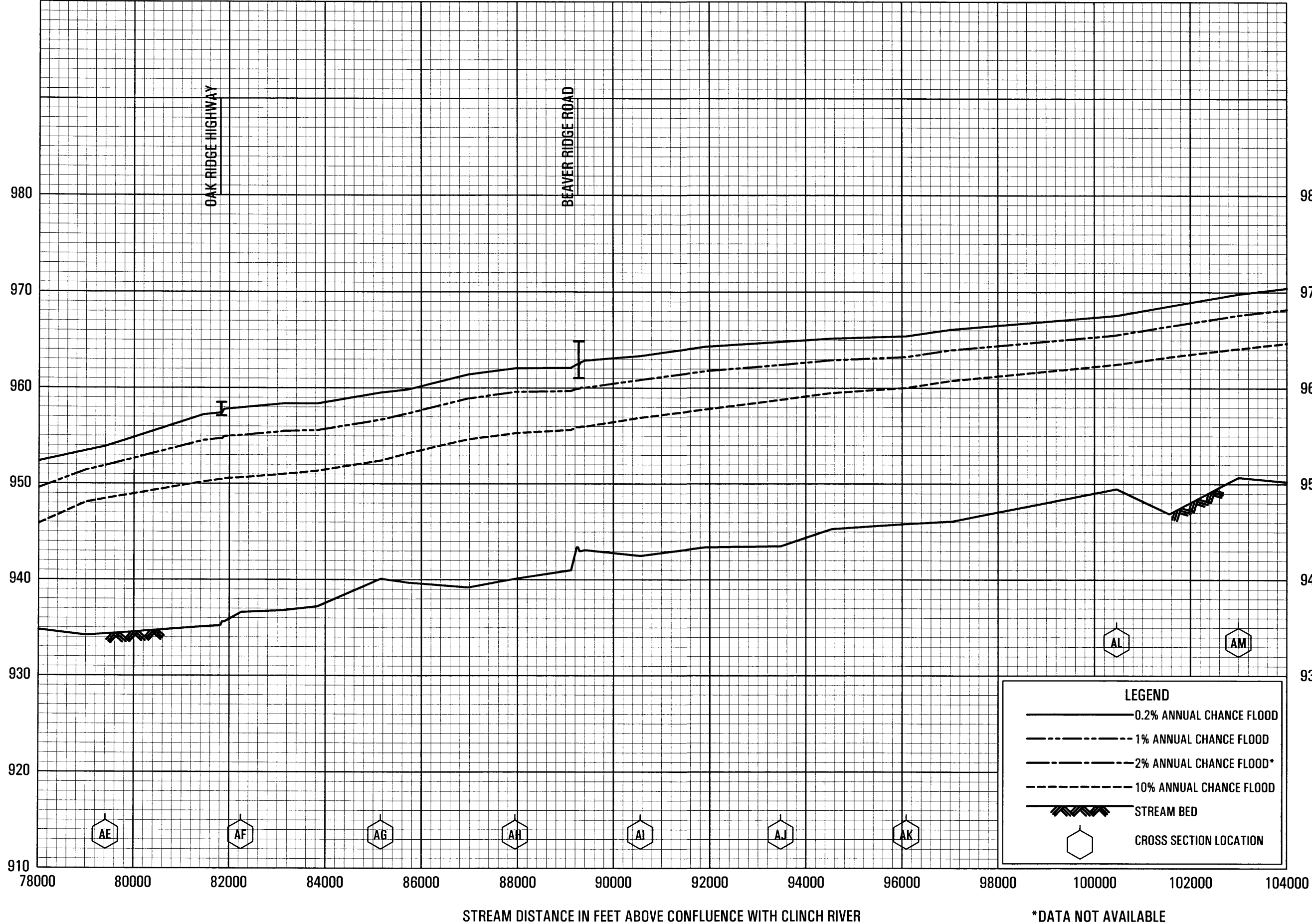


FLOOD PROFILES

BEAVER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



*DATA NOT AVAILABLE

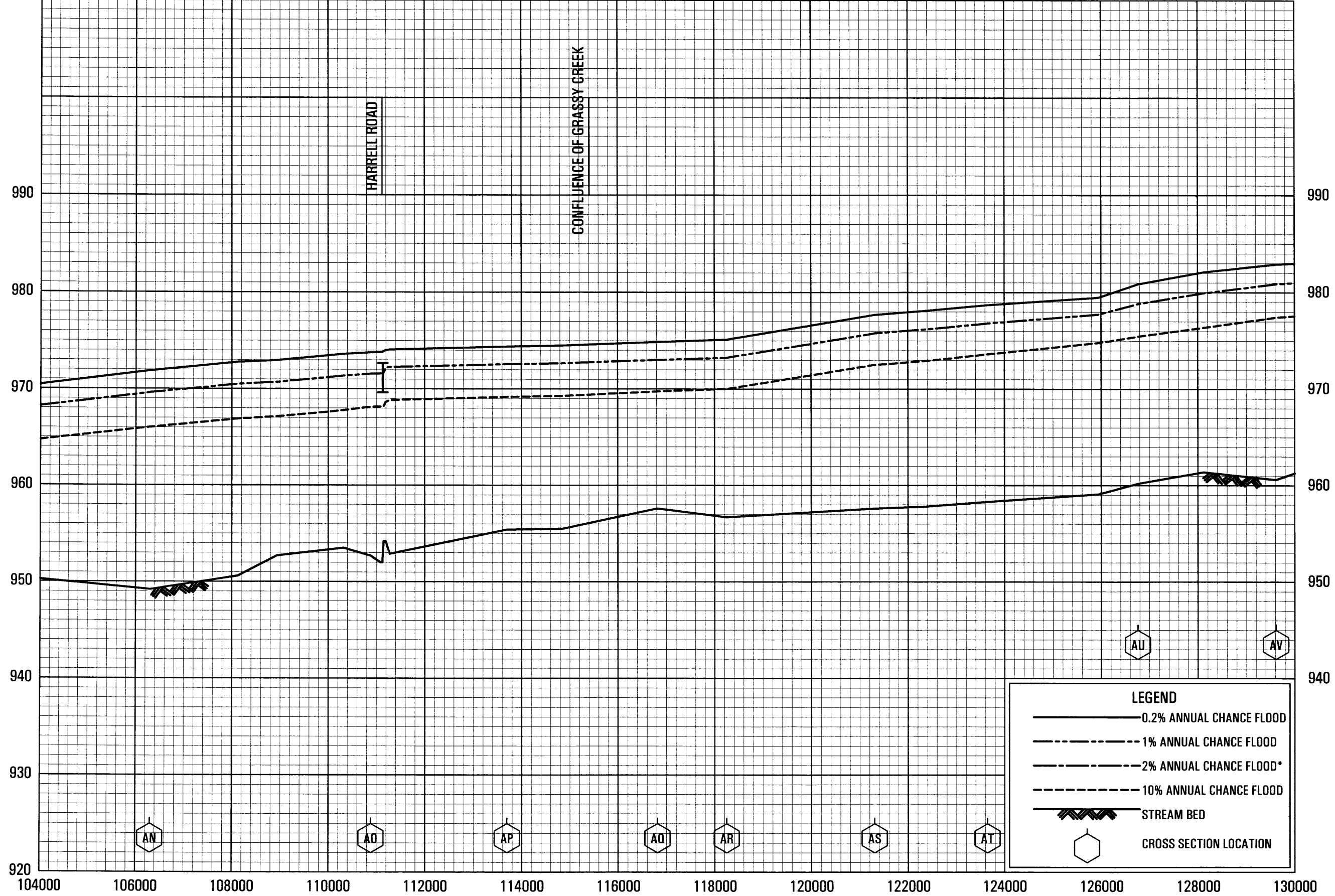
FLOOD PROFILES

BEAVER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

04P

ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH CLINCH RIVER

*DATA NOT AVAILABLE

FLOOD PROFILES

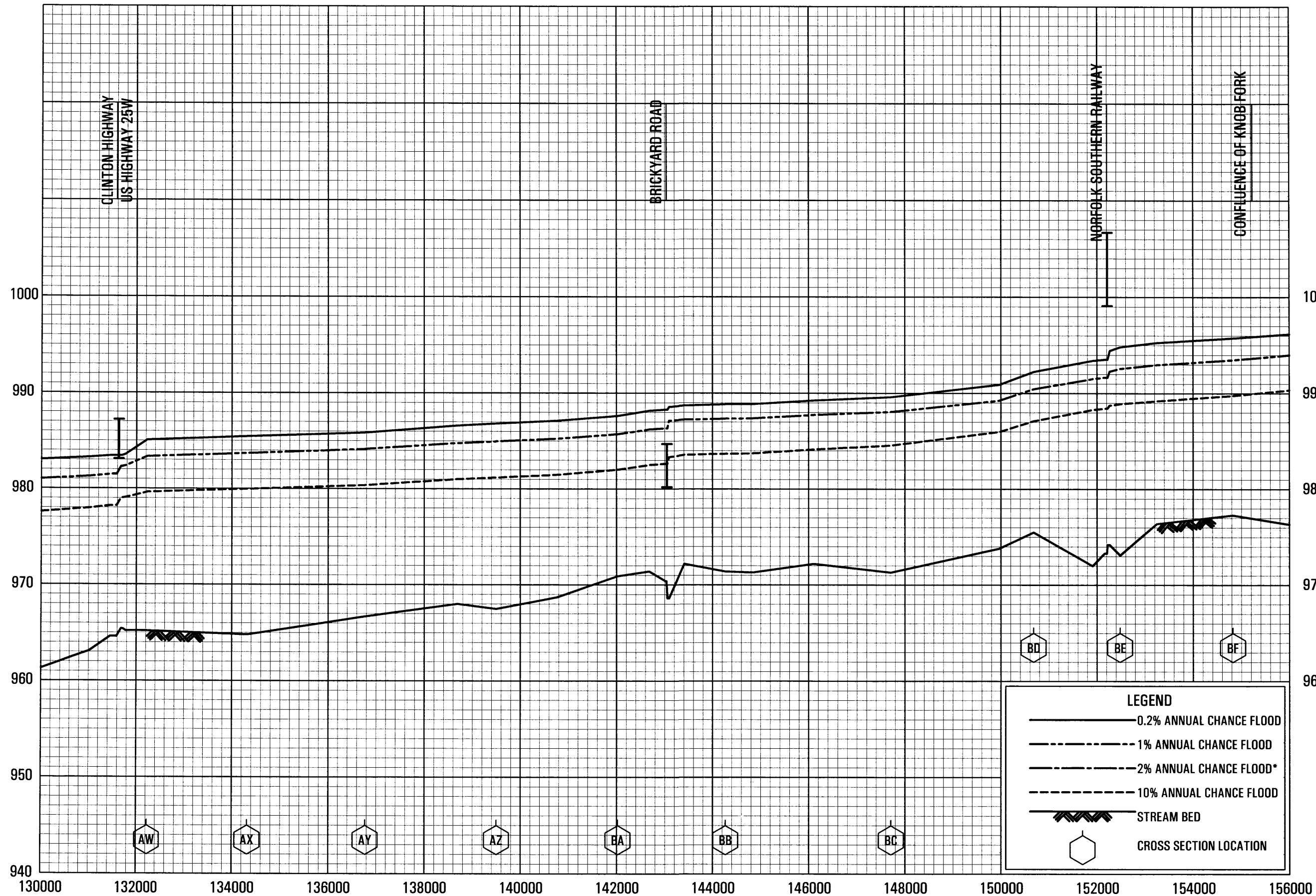
BEAVER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

05P

ELEVATION IN FEET (NAVD 88)



*DATA NOT AVAILABLE

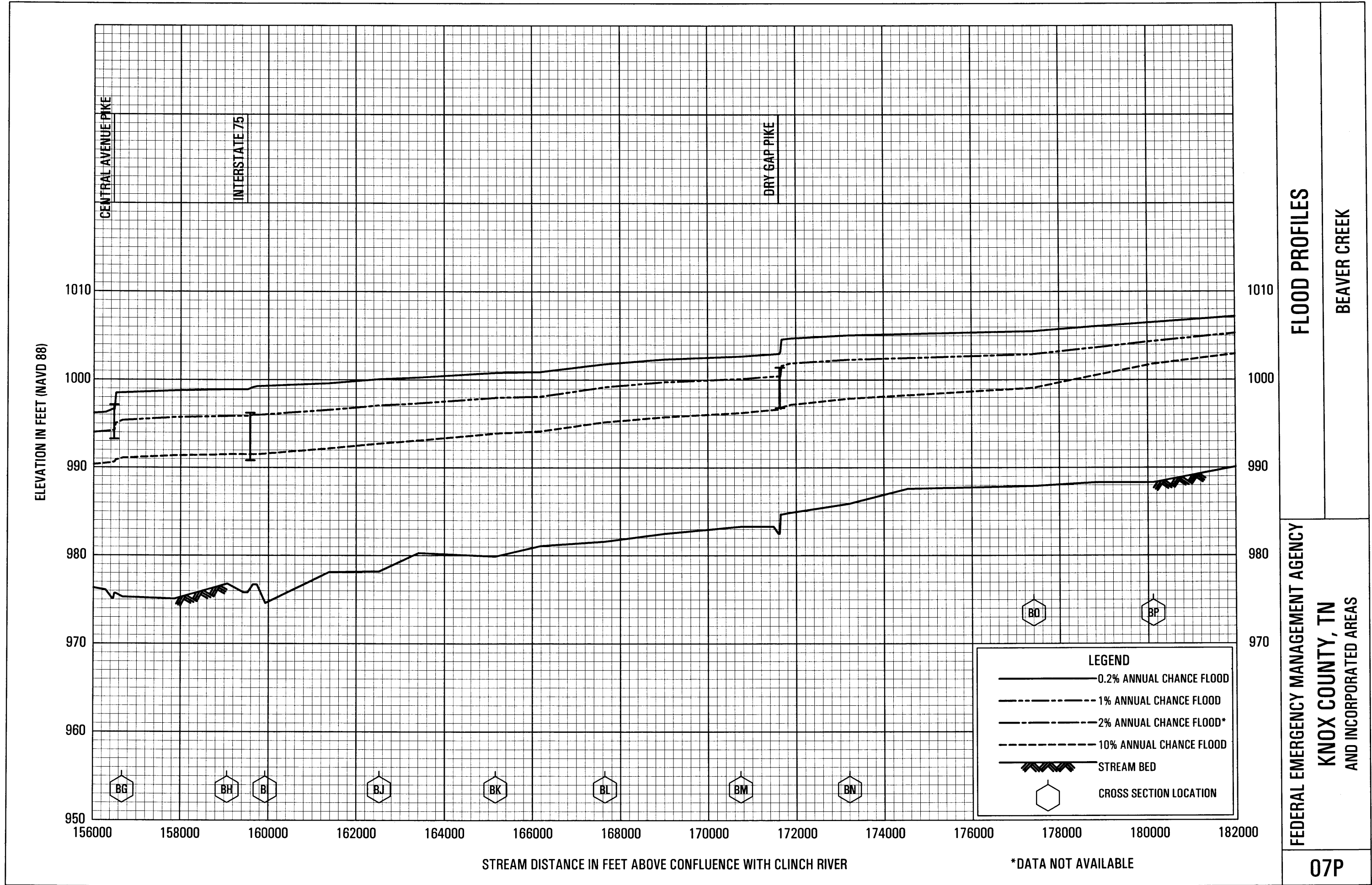
FLOOD PROFILES

BEAVER CREEK

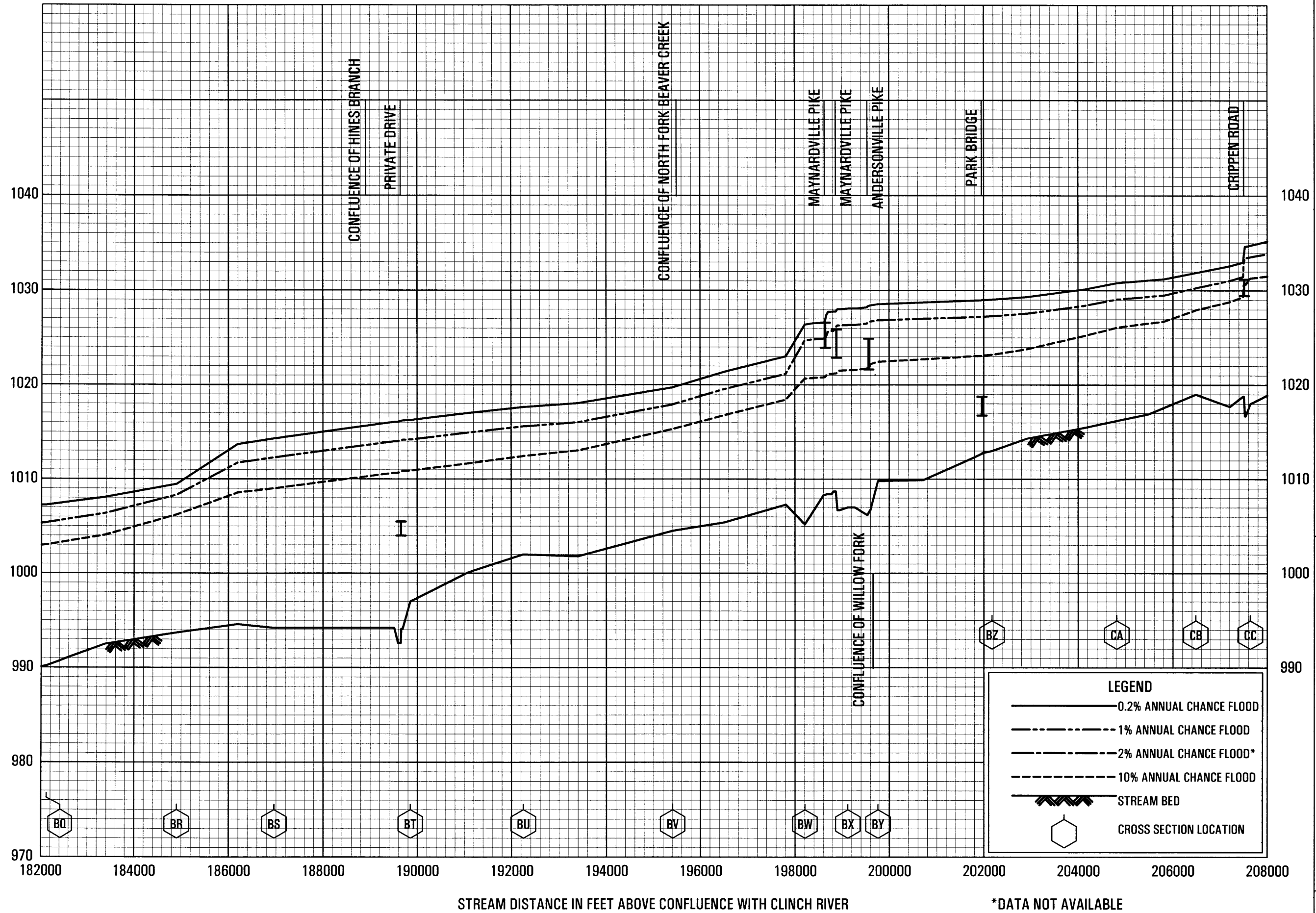
FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

06P



ELEVATION IN FEET (NAVD 88)



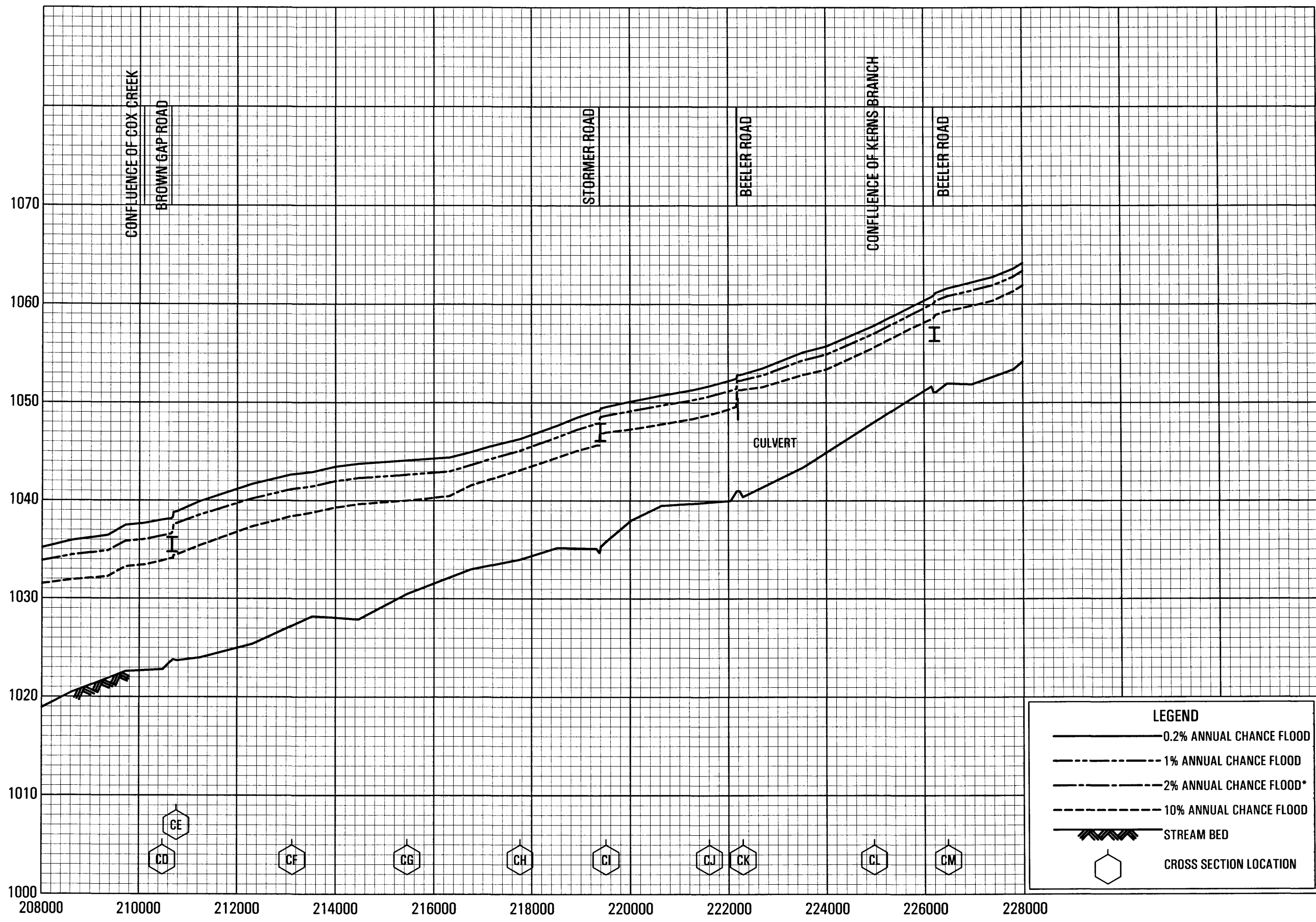
FLOOD PROFILES

BEAVER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

08P

ELEVATION IN FEET (NAVD 88)



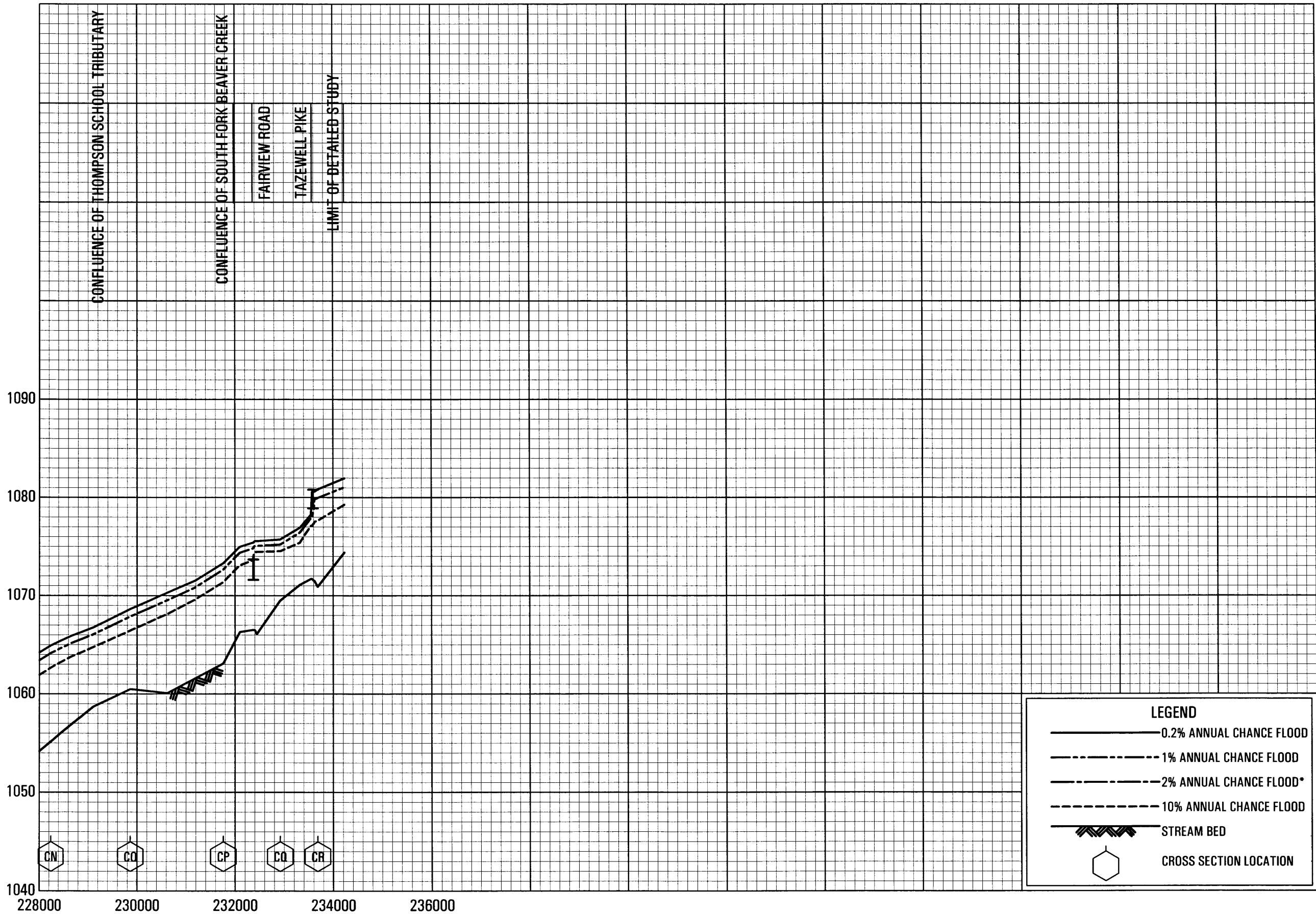
*DATA NOT AVAILABLE

FLOOD PROFILES

BEAVER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH CLINCH RIVER

*DATA NOT AVAILABLE

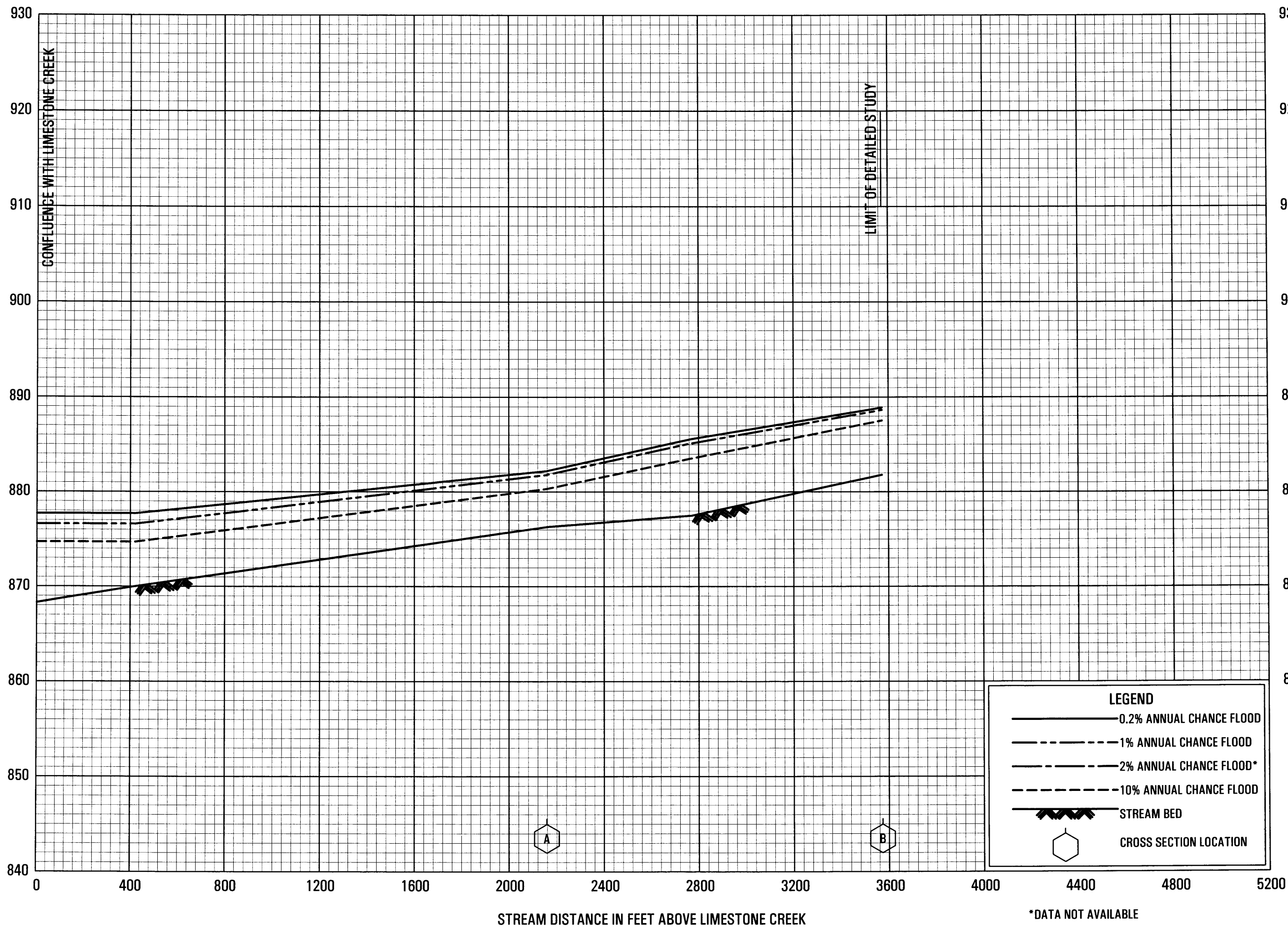
FLOOD PROFILES

BEAVER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



LEGEND

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

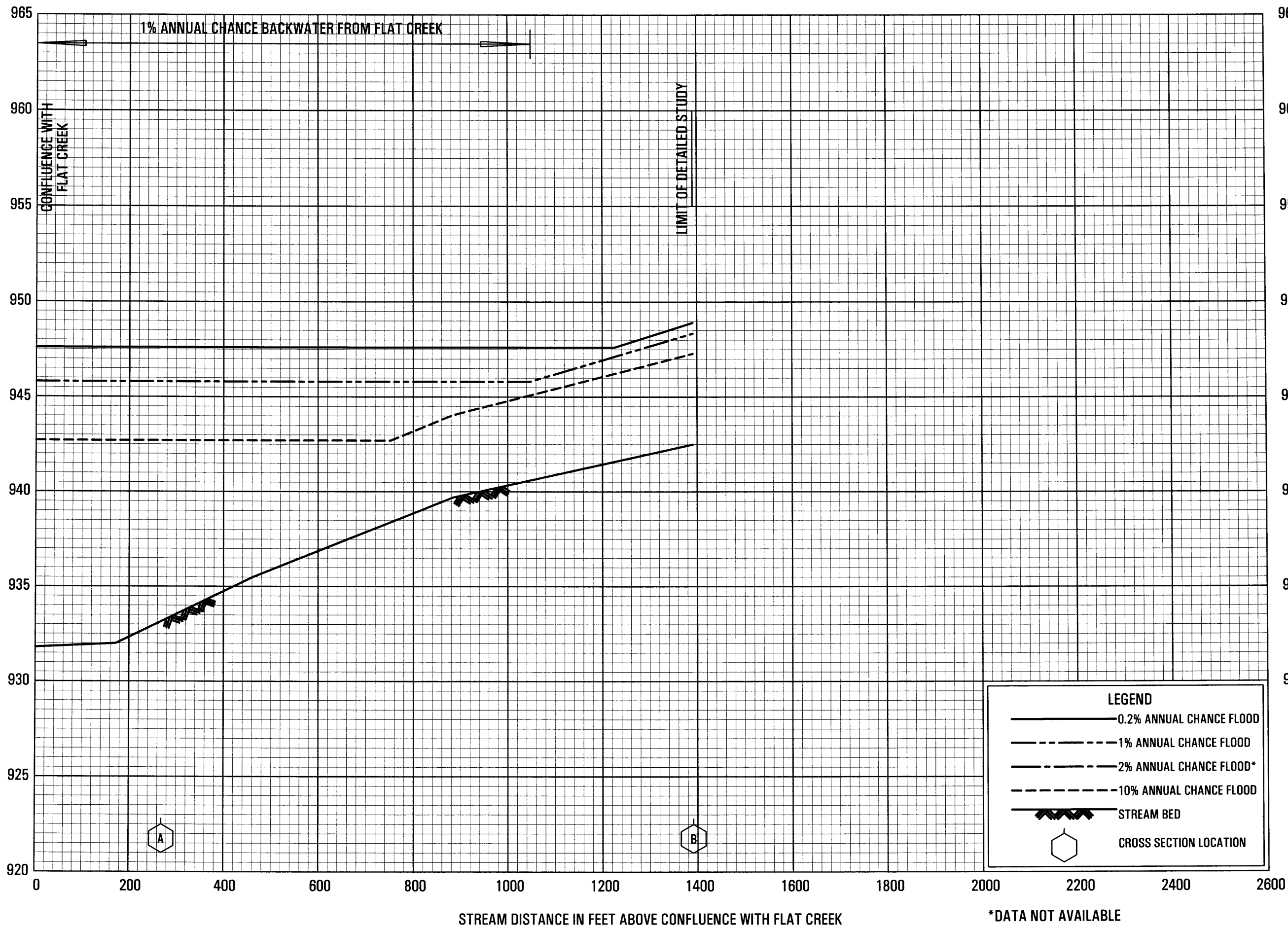
*DATA NOT AVAILABLE

FLOOD PROFILES

BERRY BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)

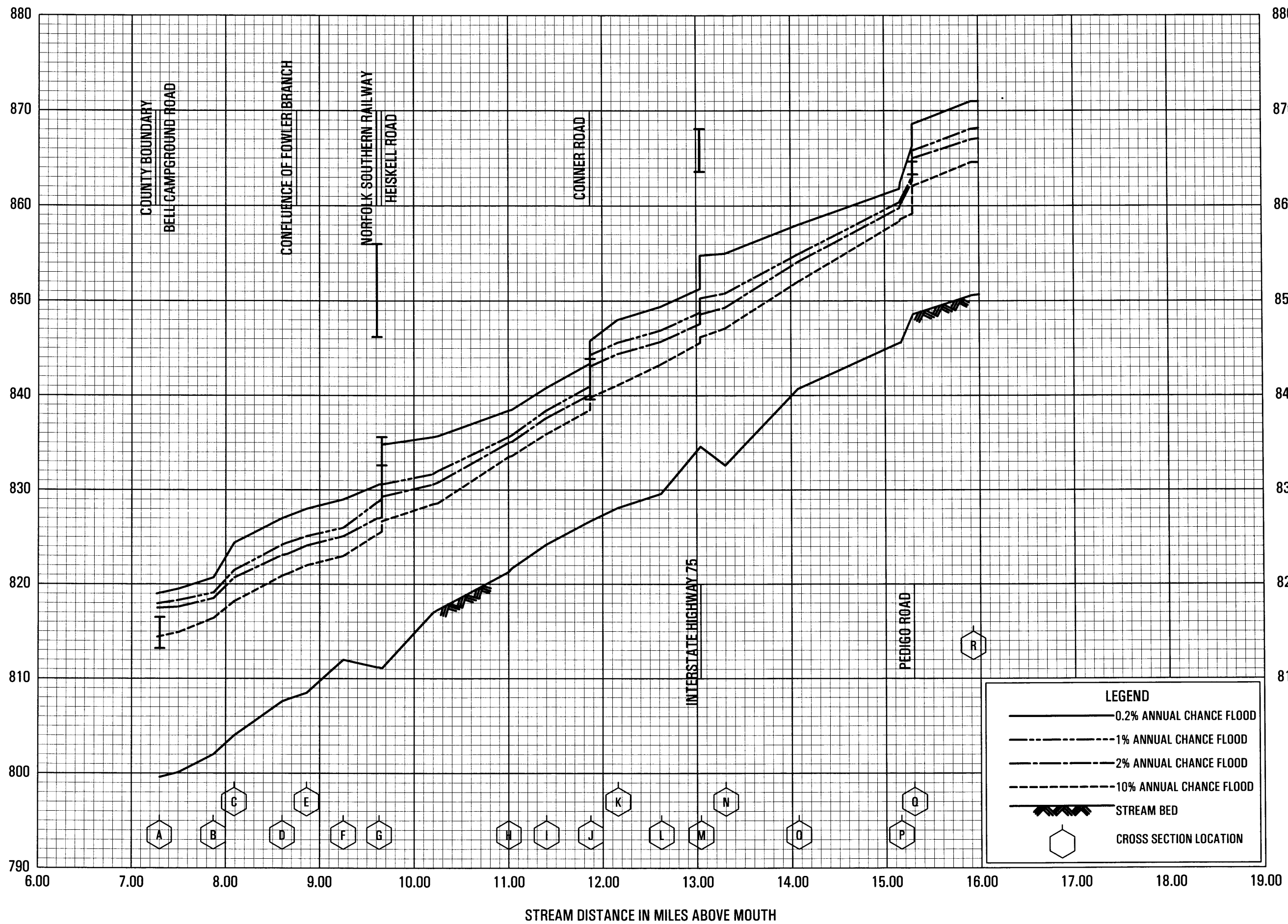


FLOOD PROFILES

BRICE BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



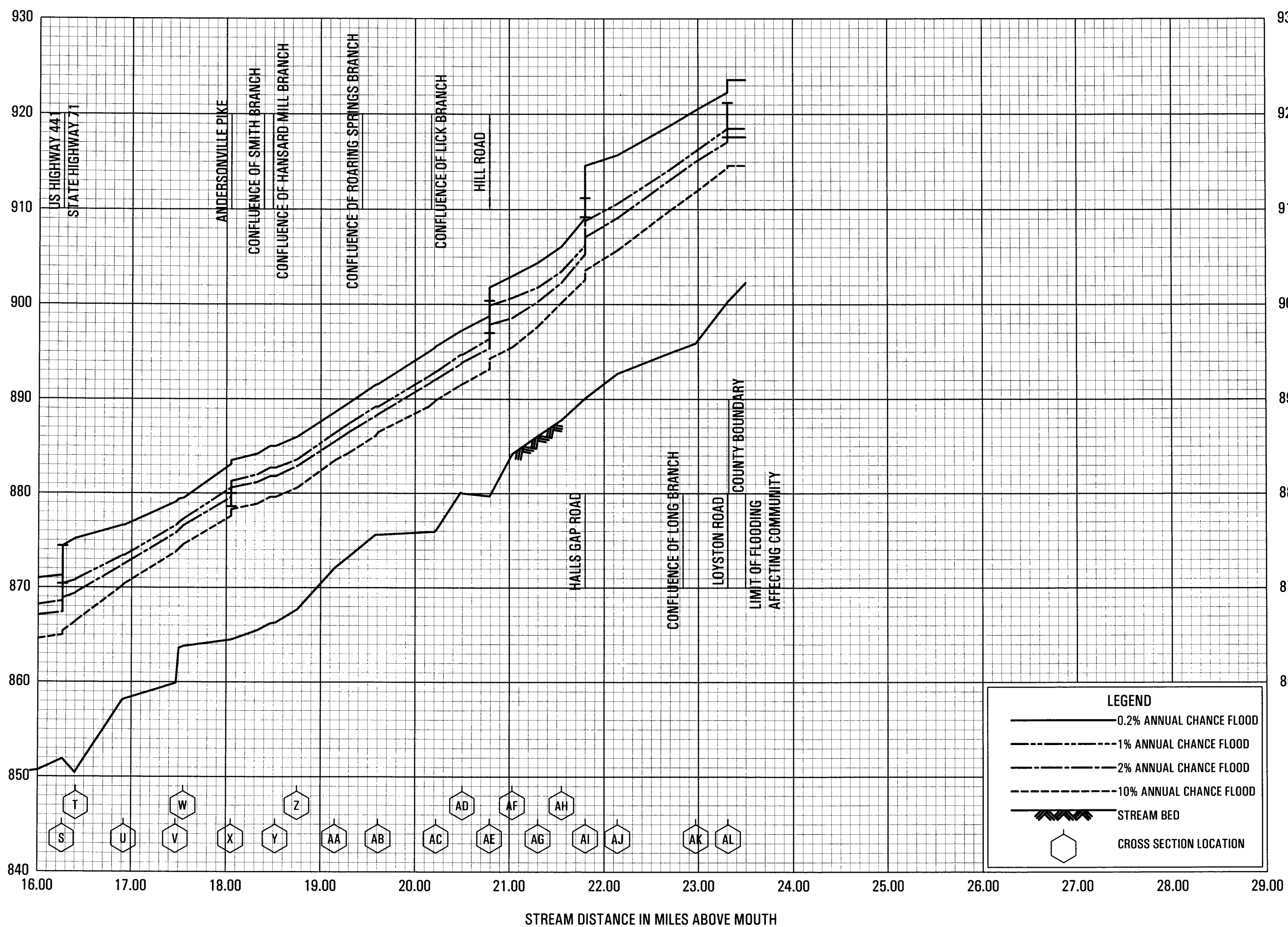
FLOOD PROFILES

BULLRUN CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



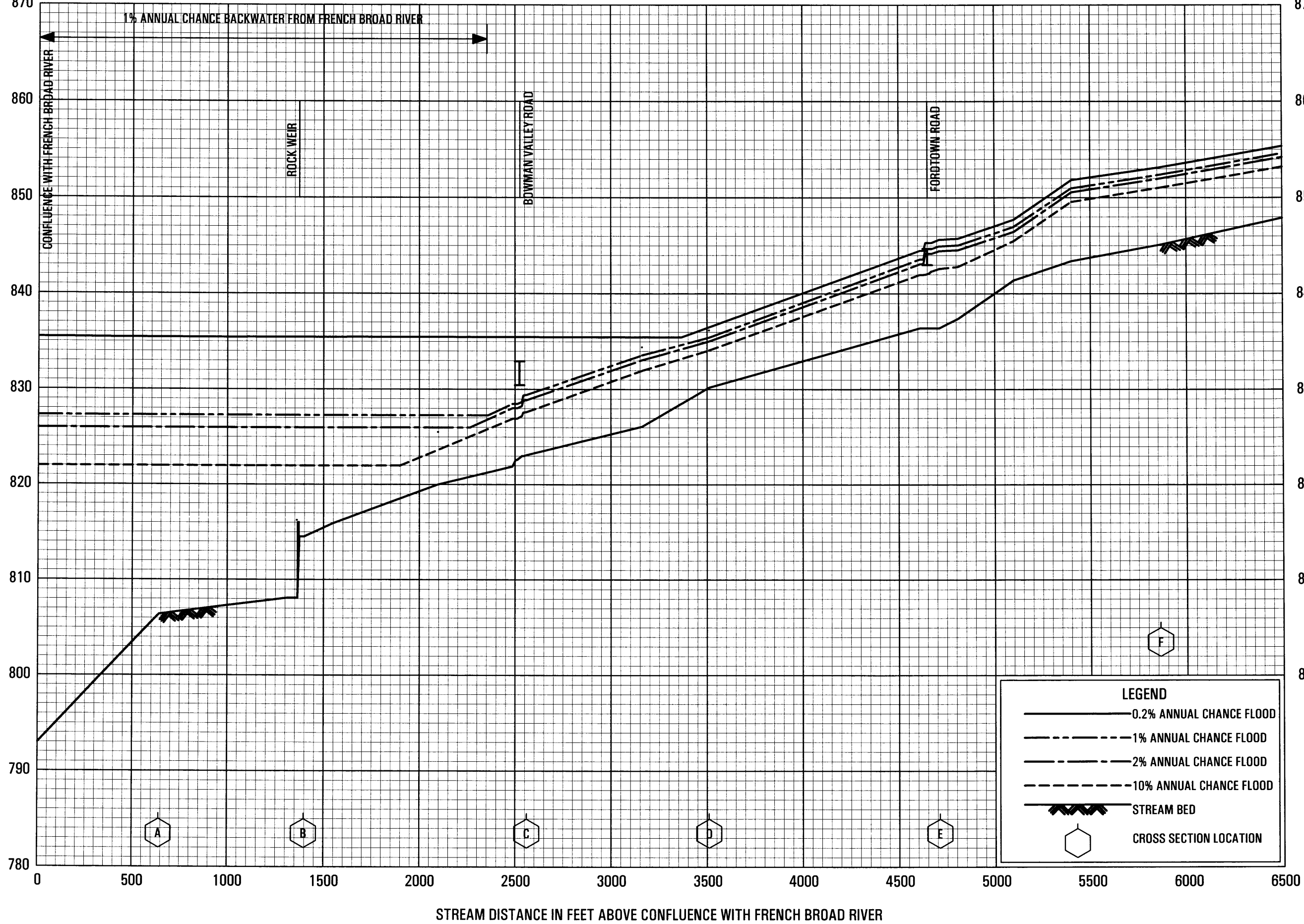
FLOOD PROFILES

BULLRUN CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



FLOOD PROFILES

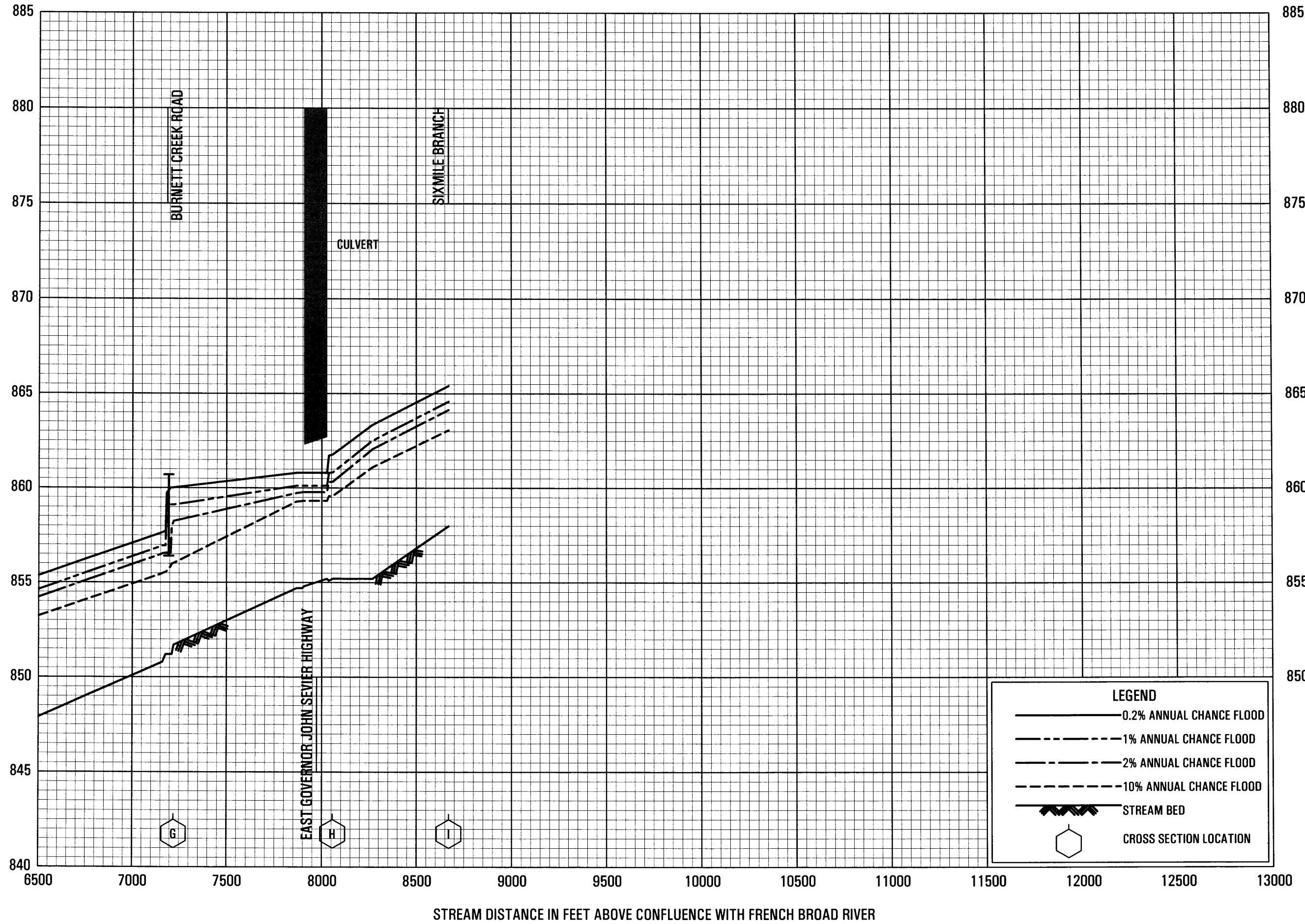
BURNETT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

15P

ELEVATION IN FEET (NAVD 88)



LEGEND

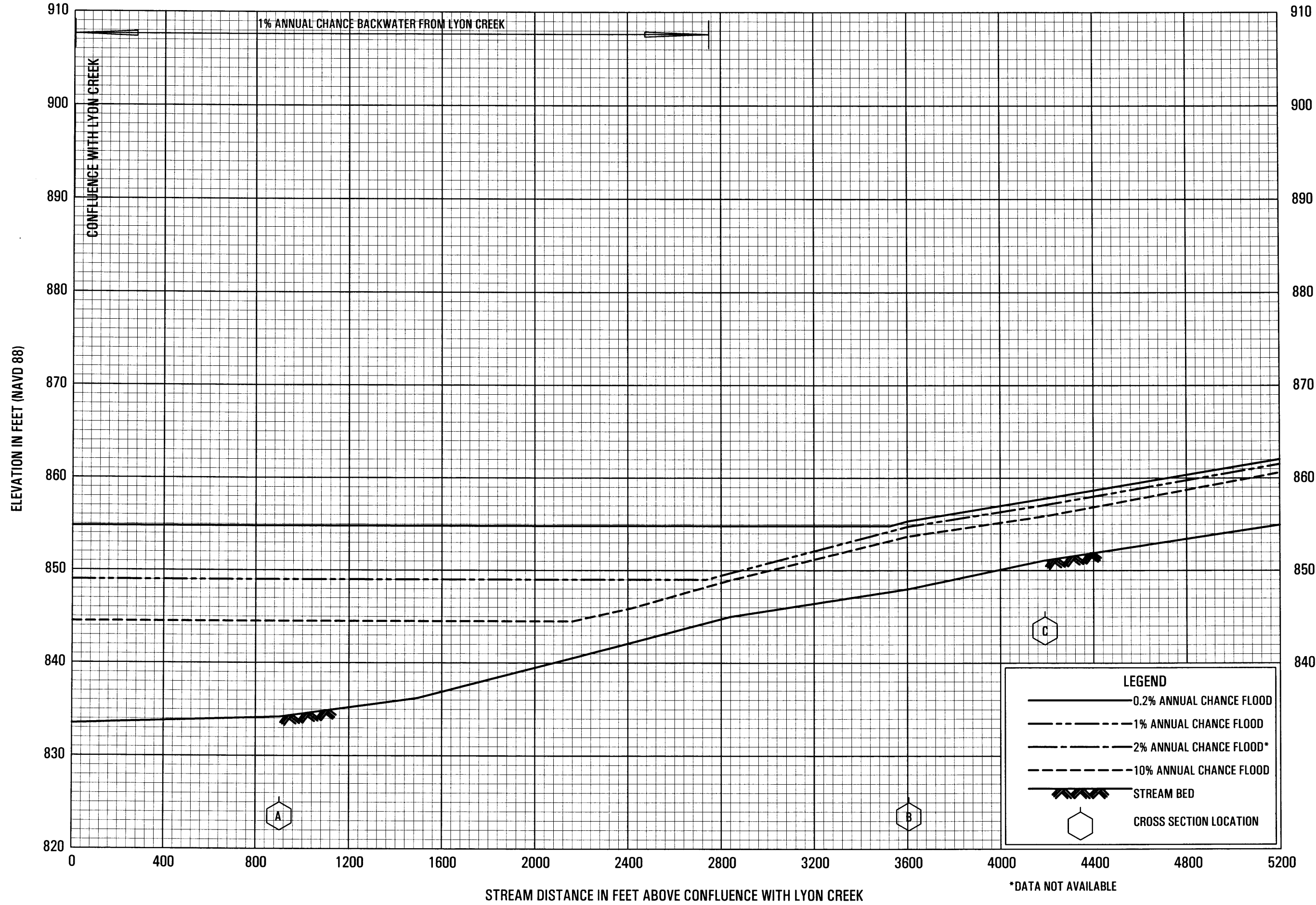
- 0.2% ANNUAL CHANCE FLOOD
- - - 1% ANNUAL CHANCE FLOOD
- . - 2% ANNUAL CHANCE FLOOD
- - - 10% ANNUAL CHANCE FLOOD
- (hachures) — STREAM BED
- ⬡ CROSS SECTION LOCATION

FLOOD PROFILES

BURNETT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS



FEDERAL EMERGENCY MANAGEMENT AGENCY

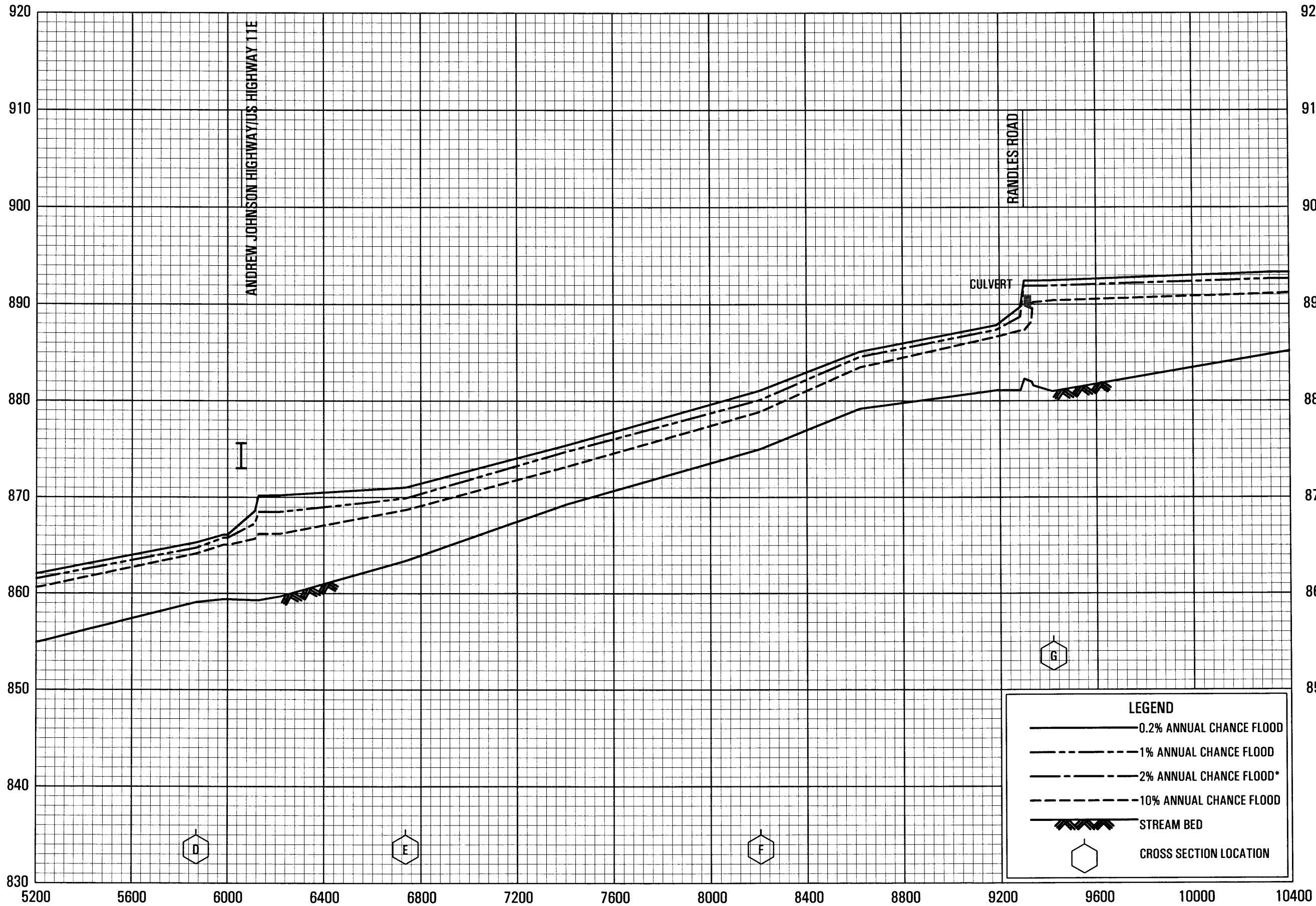
**KNOX COUNTY, TN
AND INCORPORATED AREAS**

FLOOD PROFILES

CLIFT CREEK

17P

ELEVATION IN FEET (NAVD 88)



*DATA NOT AVAILABLE

FLOOD PROFILES

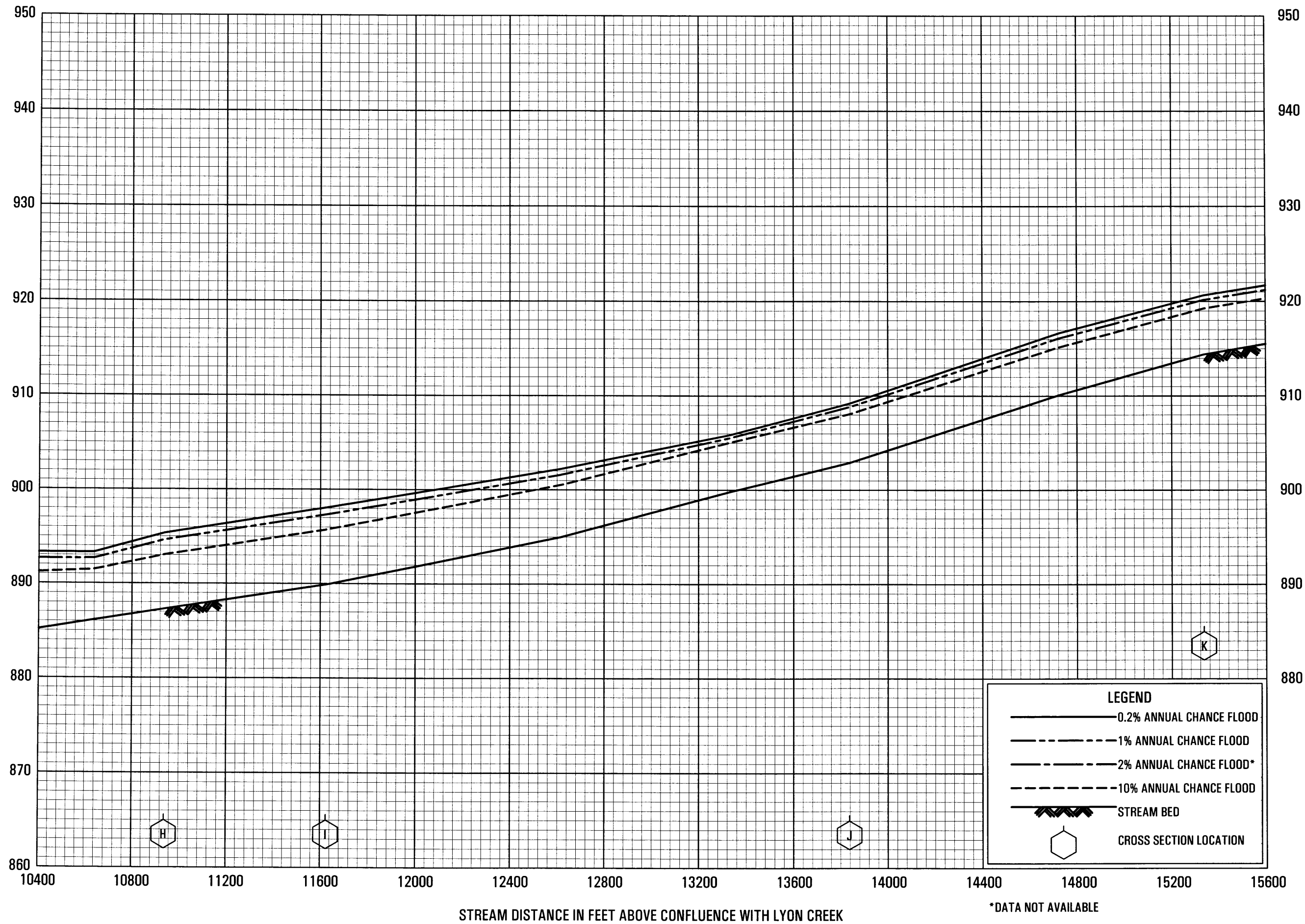
CLIFT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

18P

ELEVATION IN FEET (NAVD 88)



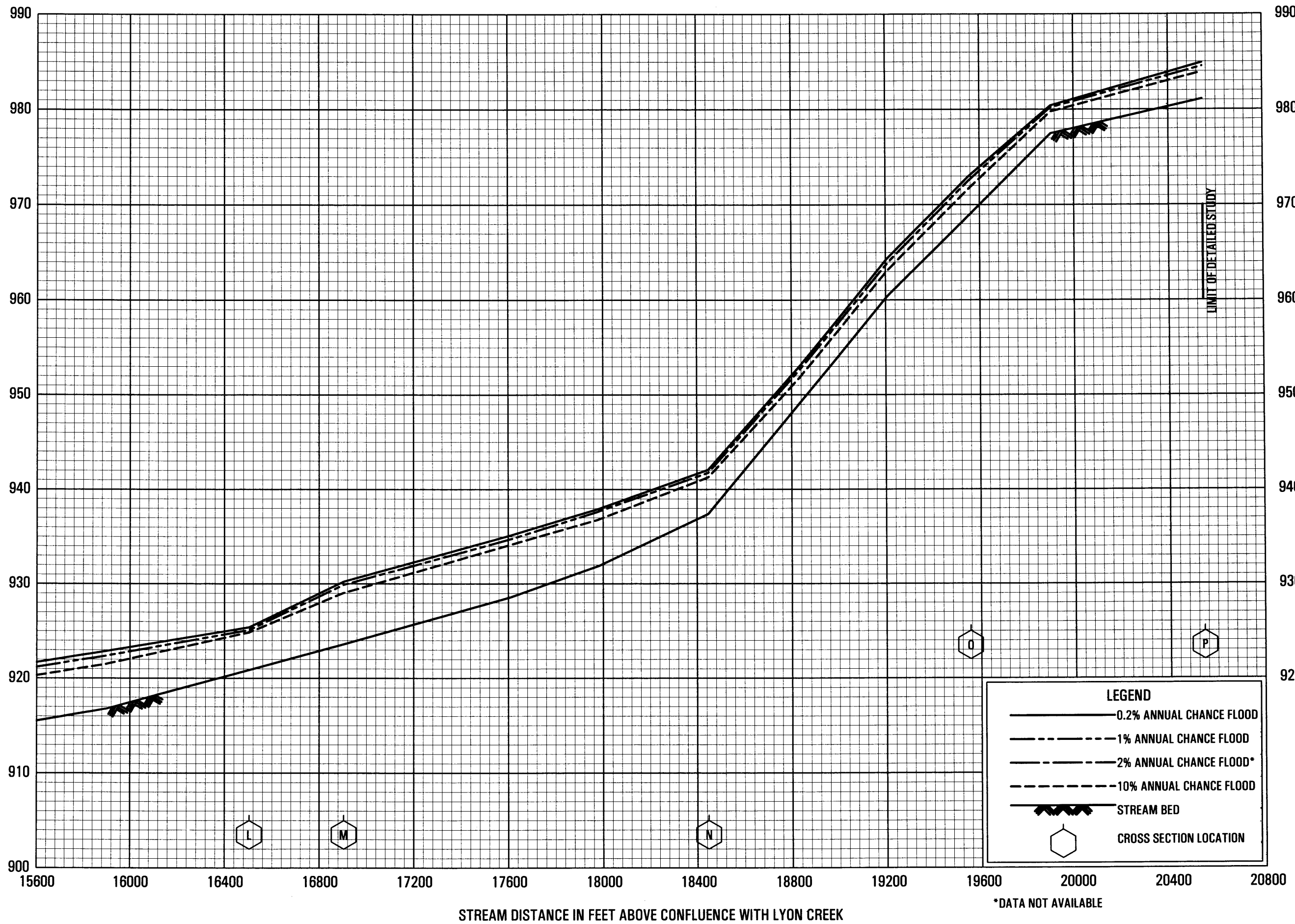
FLOOD PROFILES

CLIFT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)

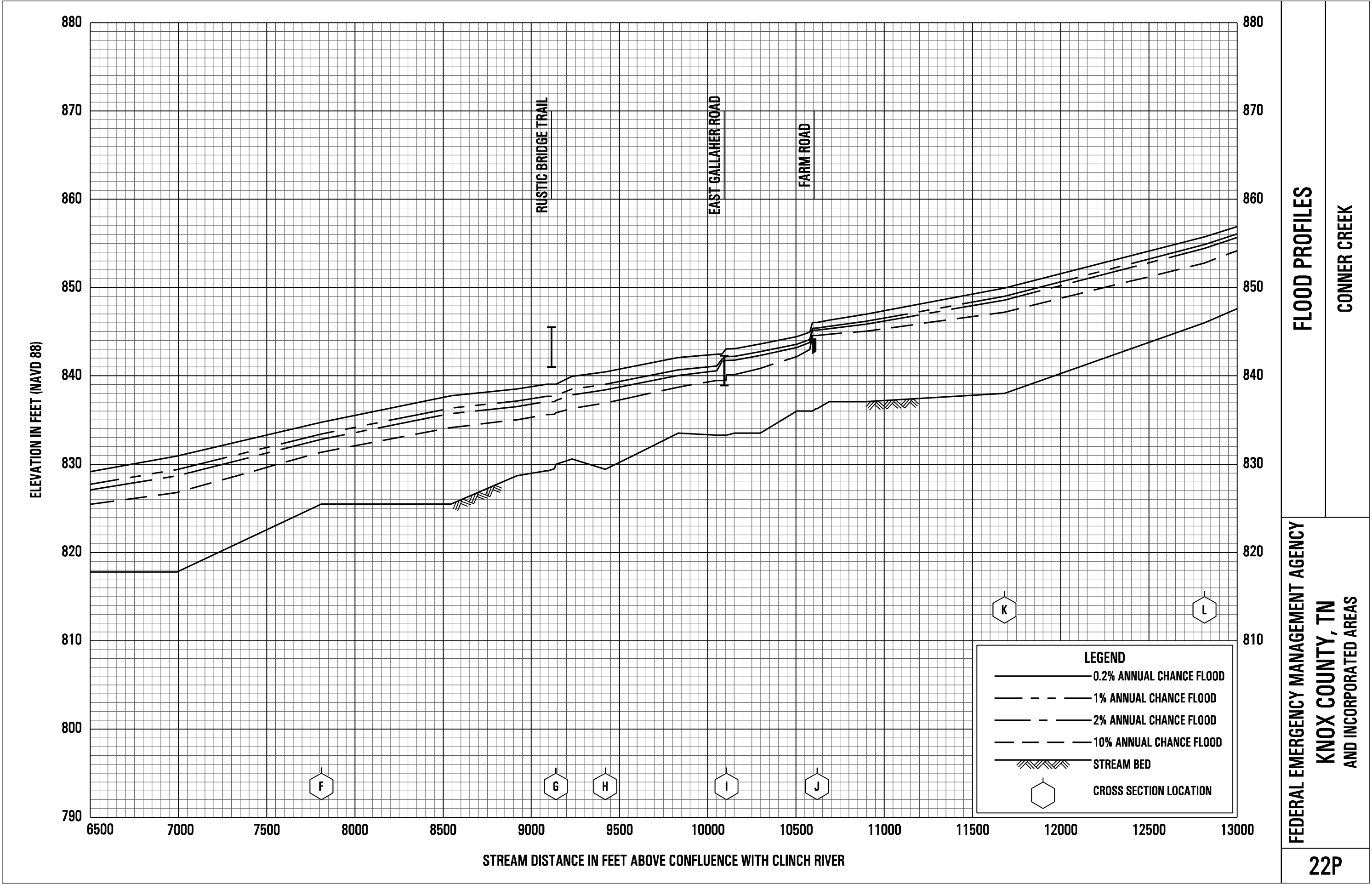


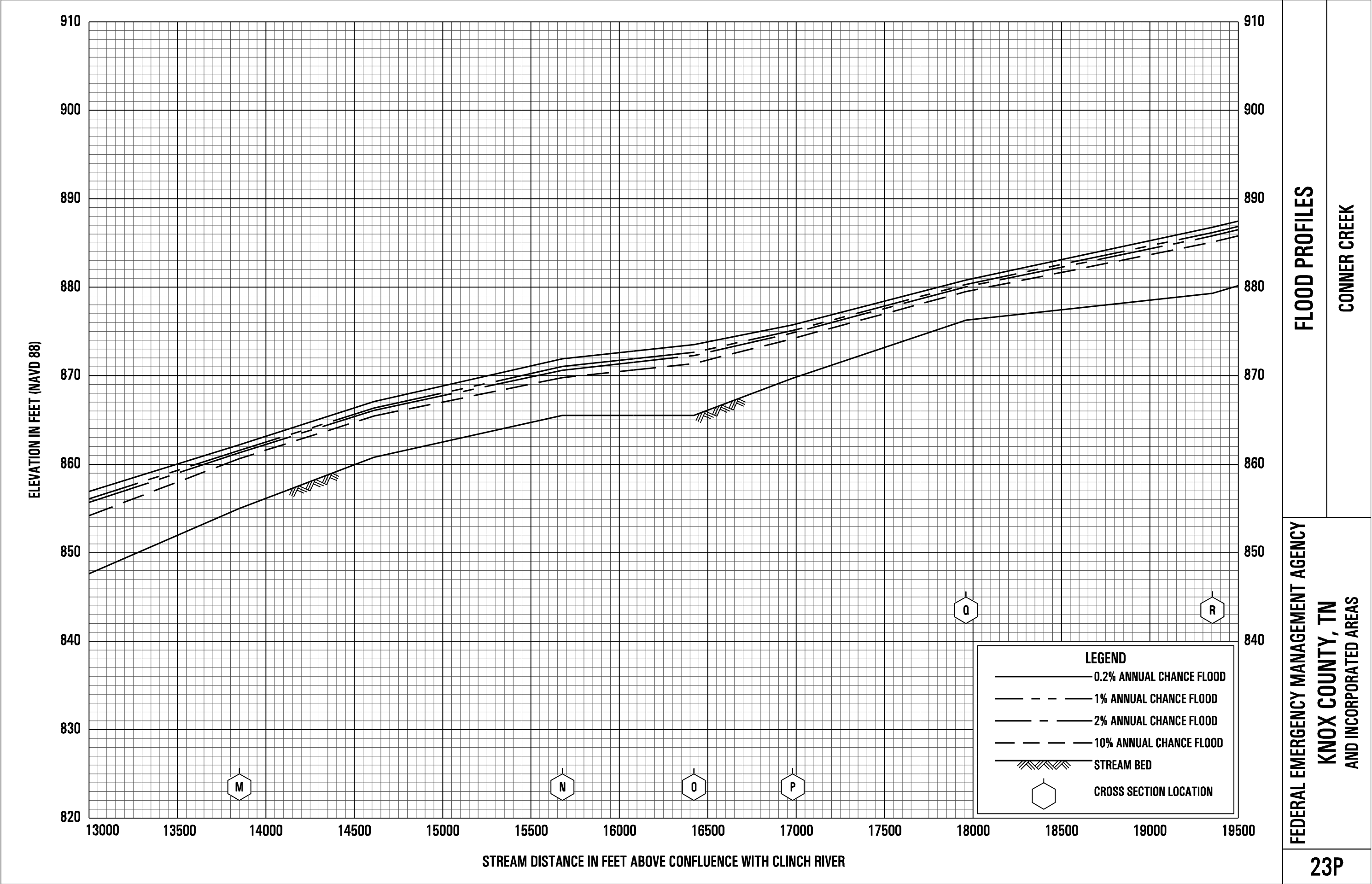
FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

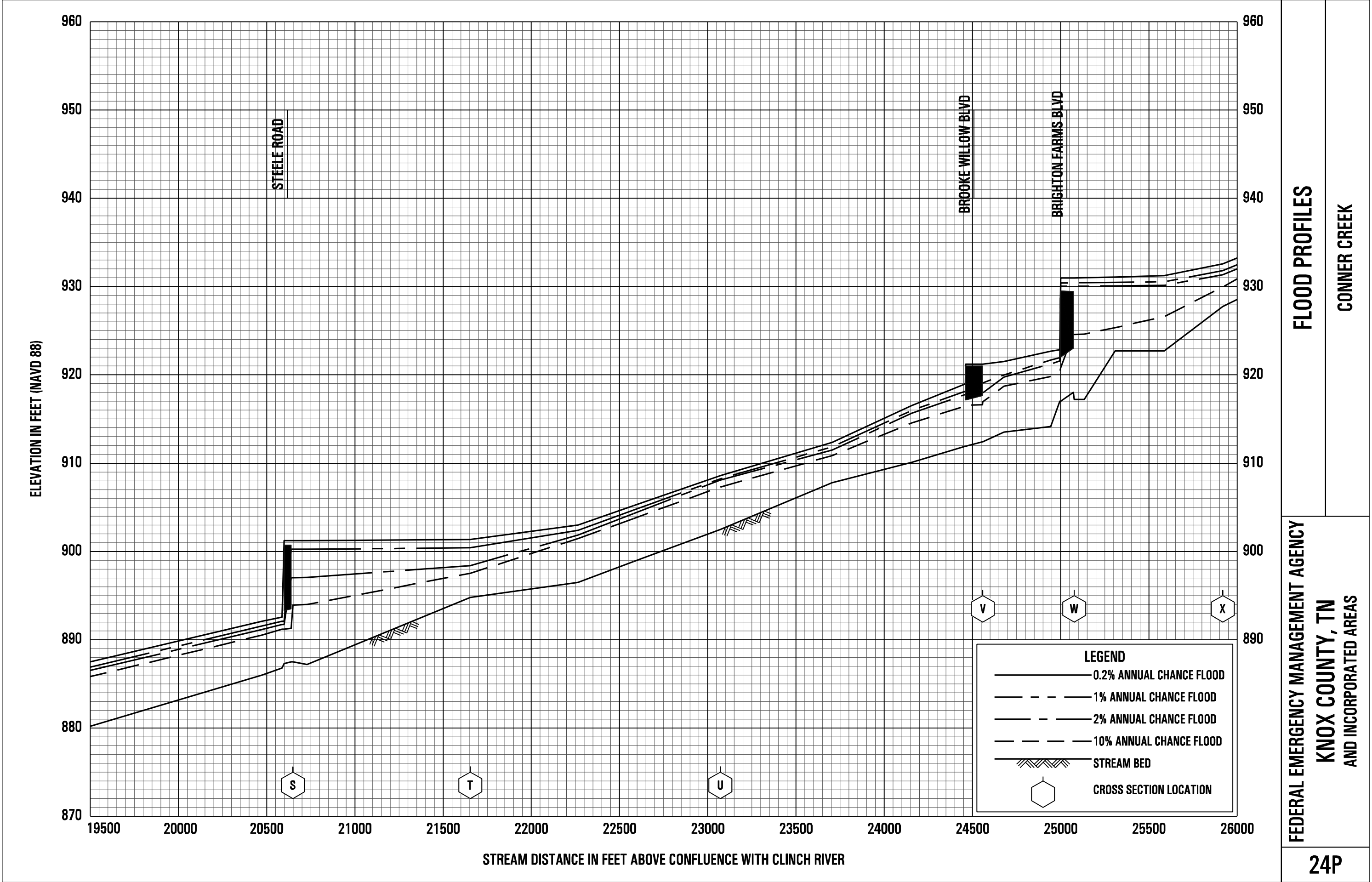
FLOOD PROFILES

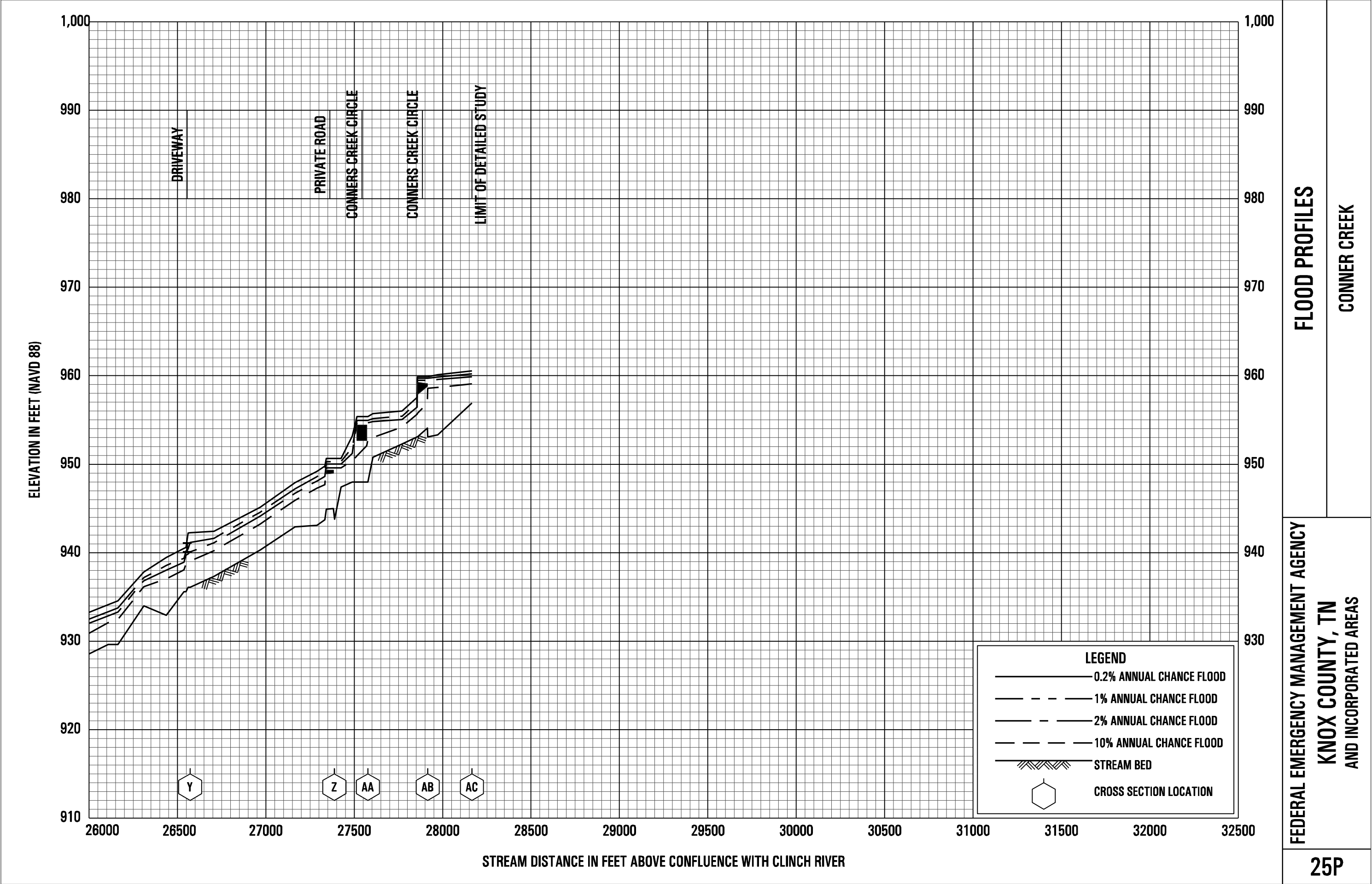
CLIFT CREEK

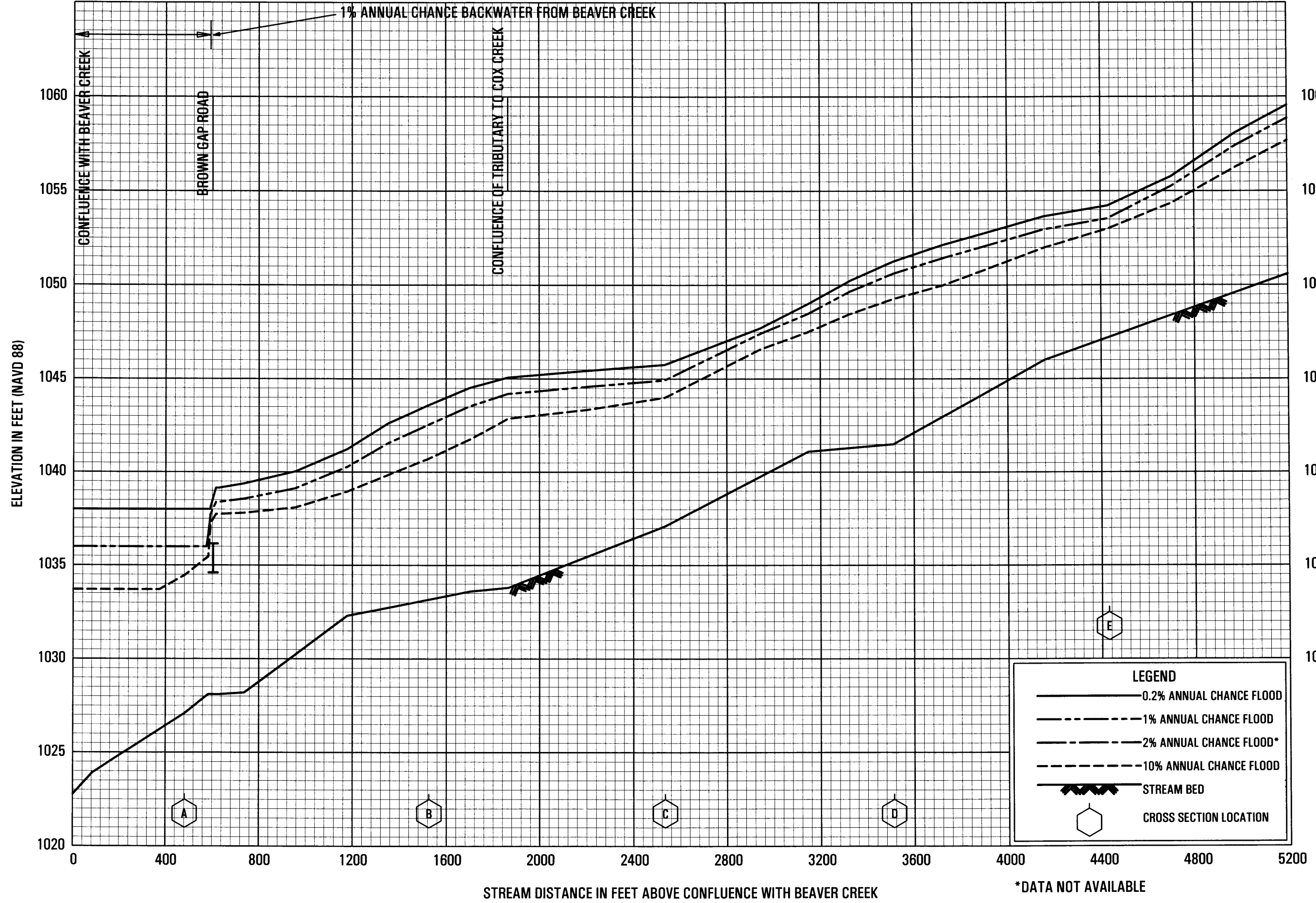
20P



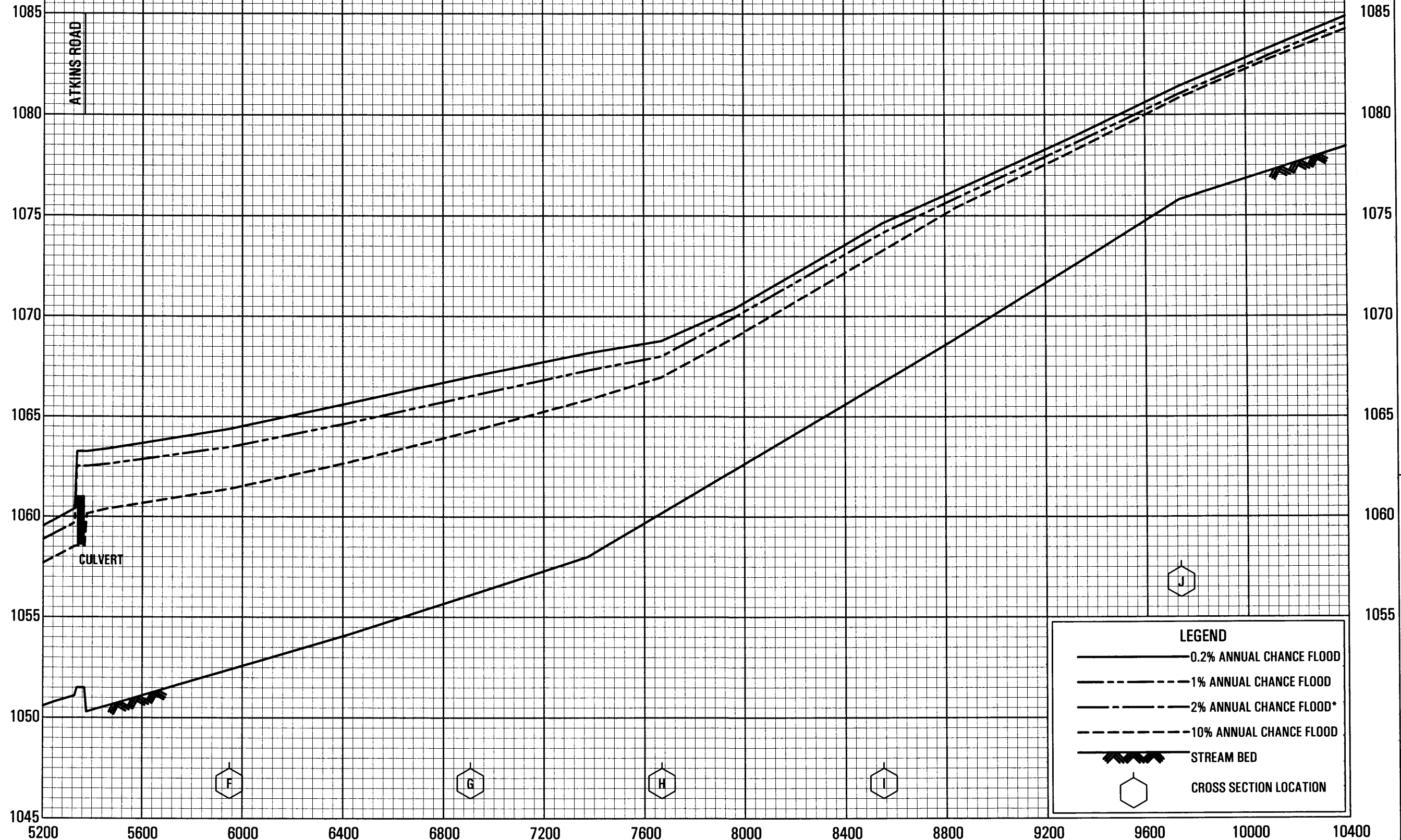








ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH BEAVER CREEK

*DATA NOT AVAILABLE

FLOOD PROFILES

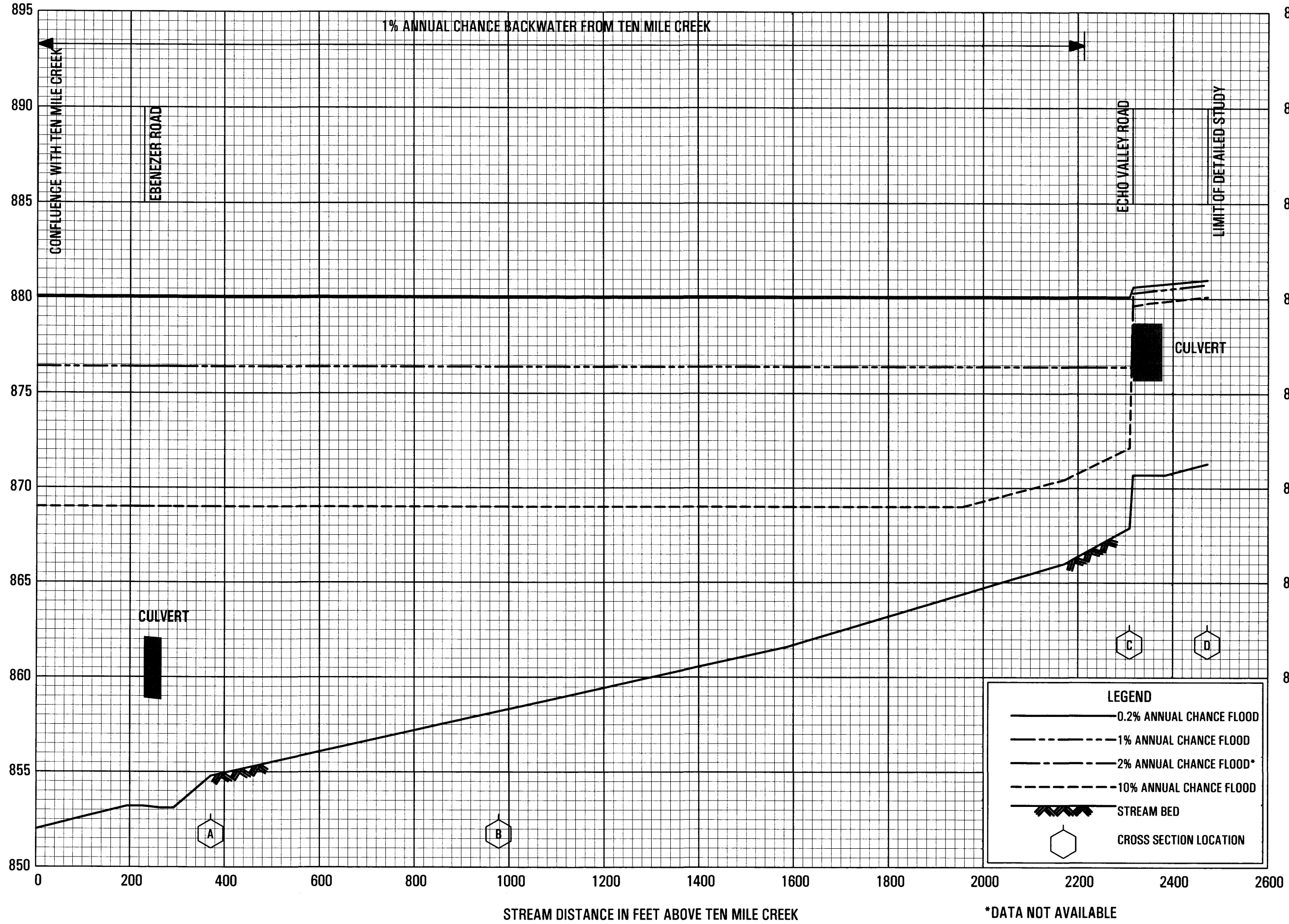
COX CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

27P

ELEVATION IN FEET (NAVD 88)



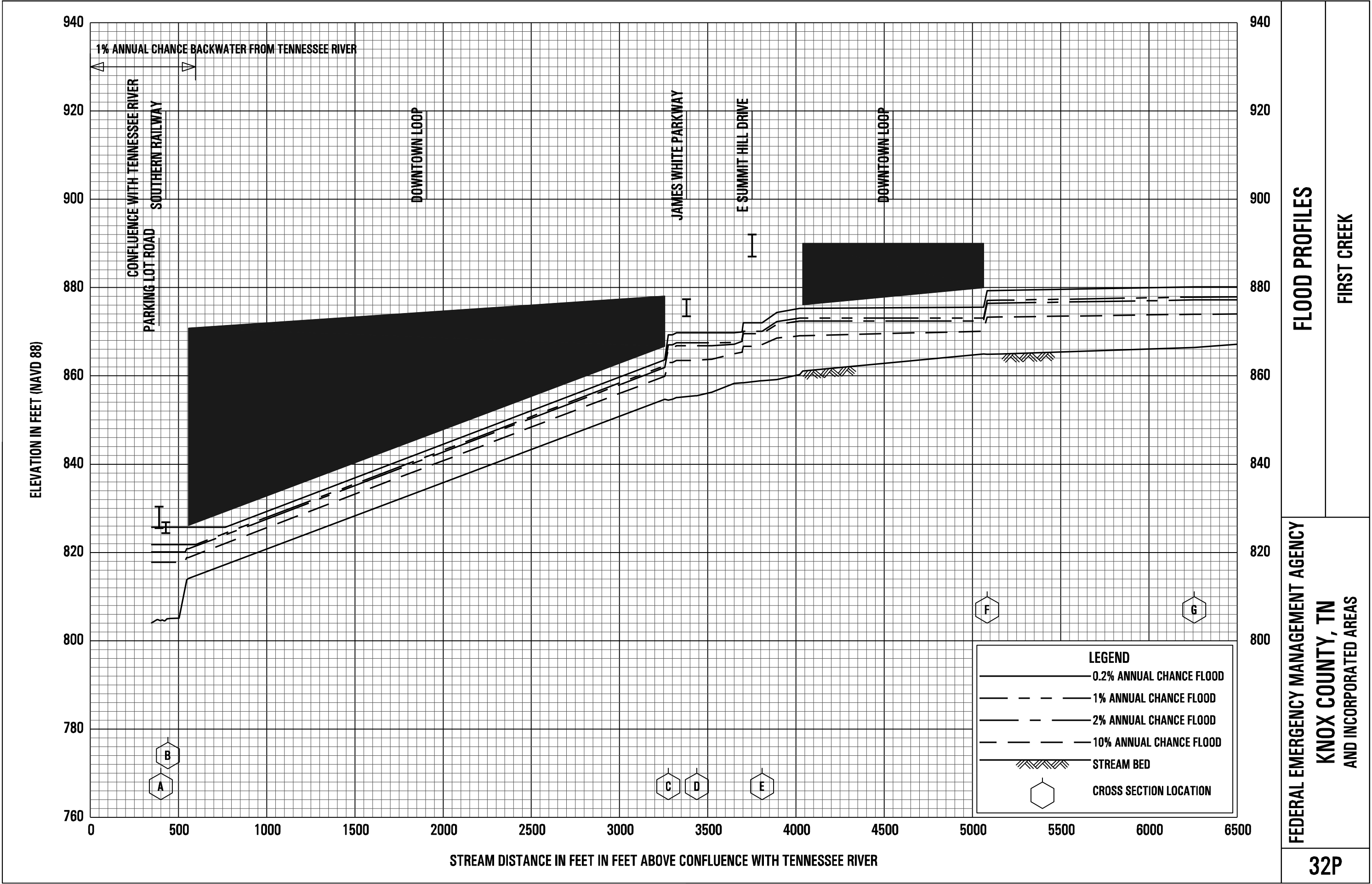
FLOOD PROFILES

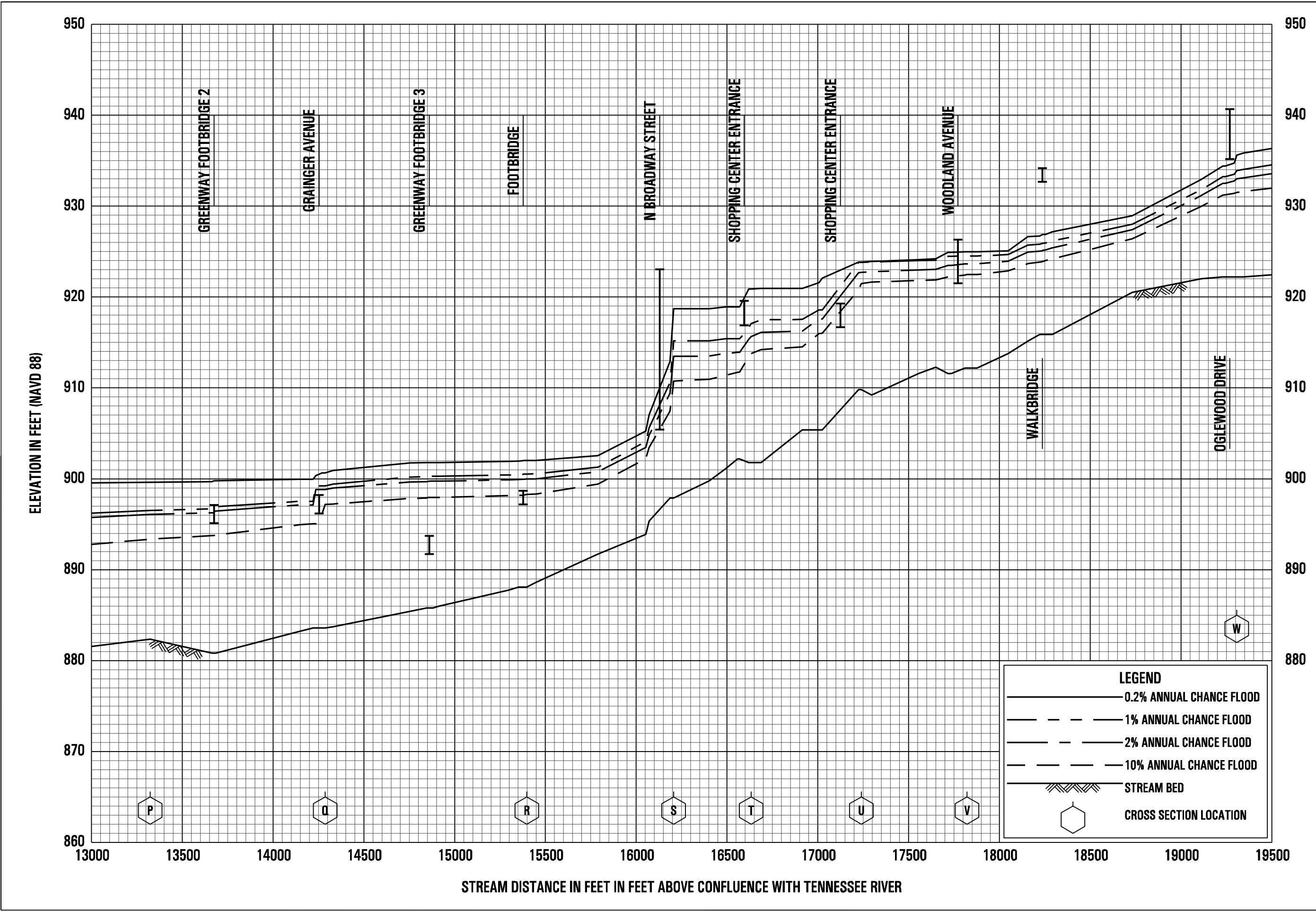
ECHO VALLEY TRIBUTARY

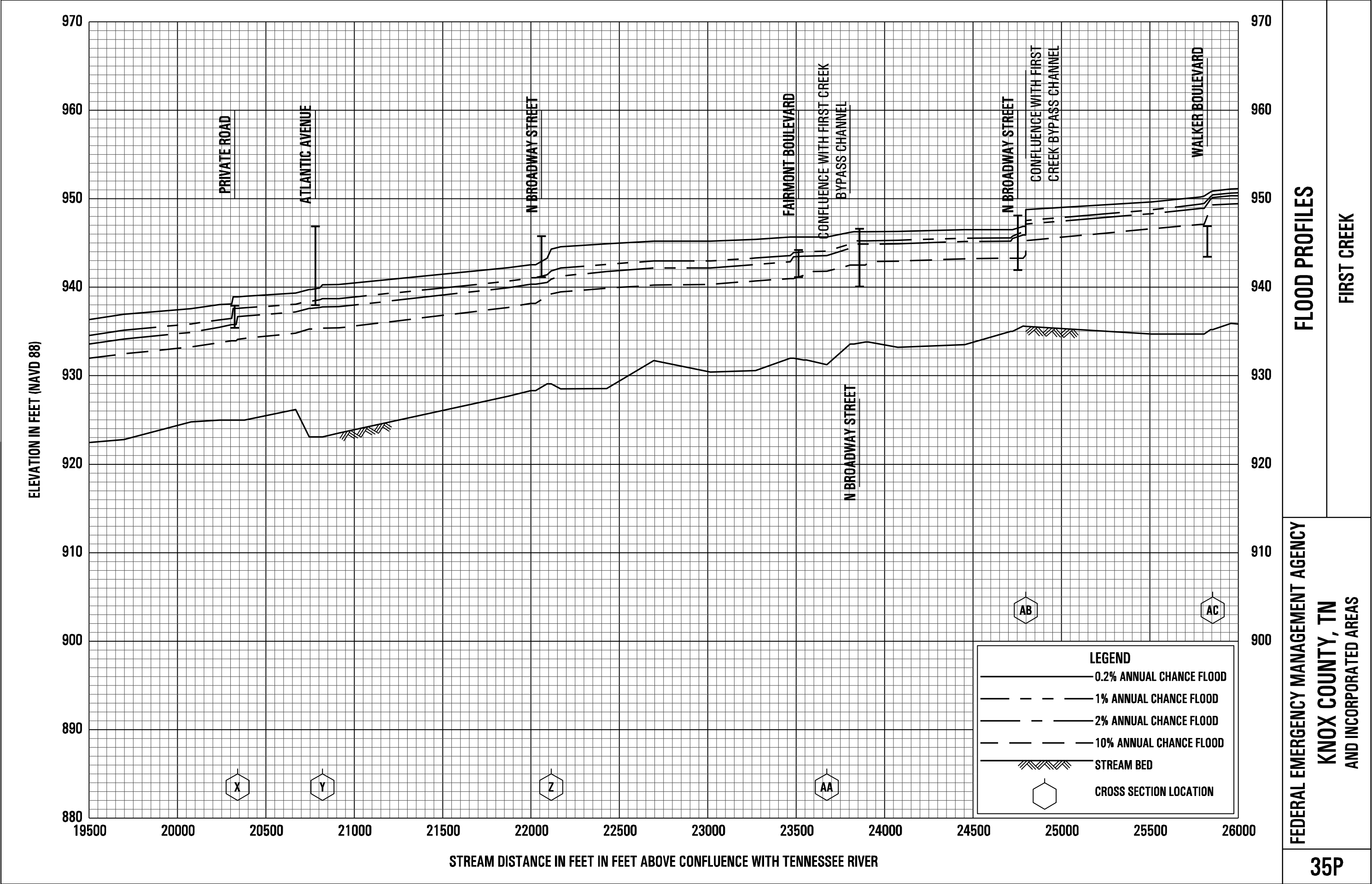
FEDERAL EMERGENCY MANAGEMENT AGENCY

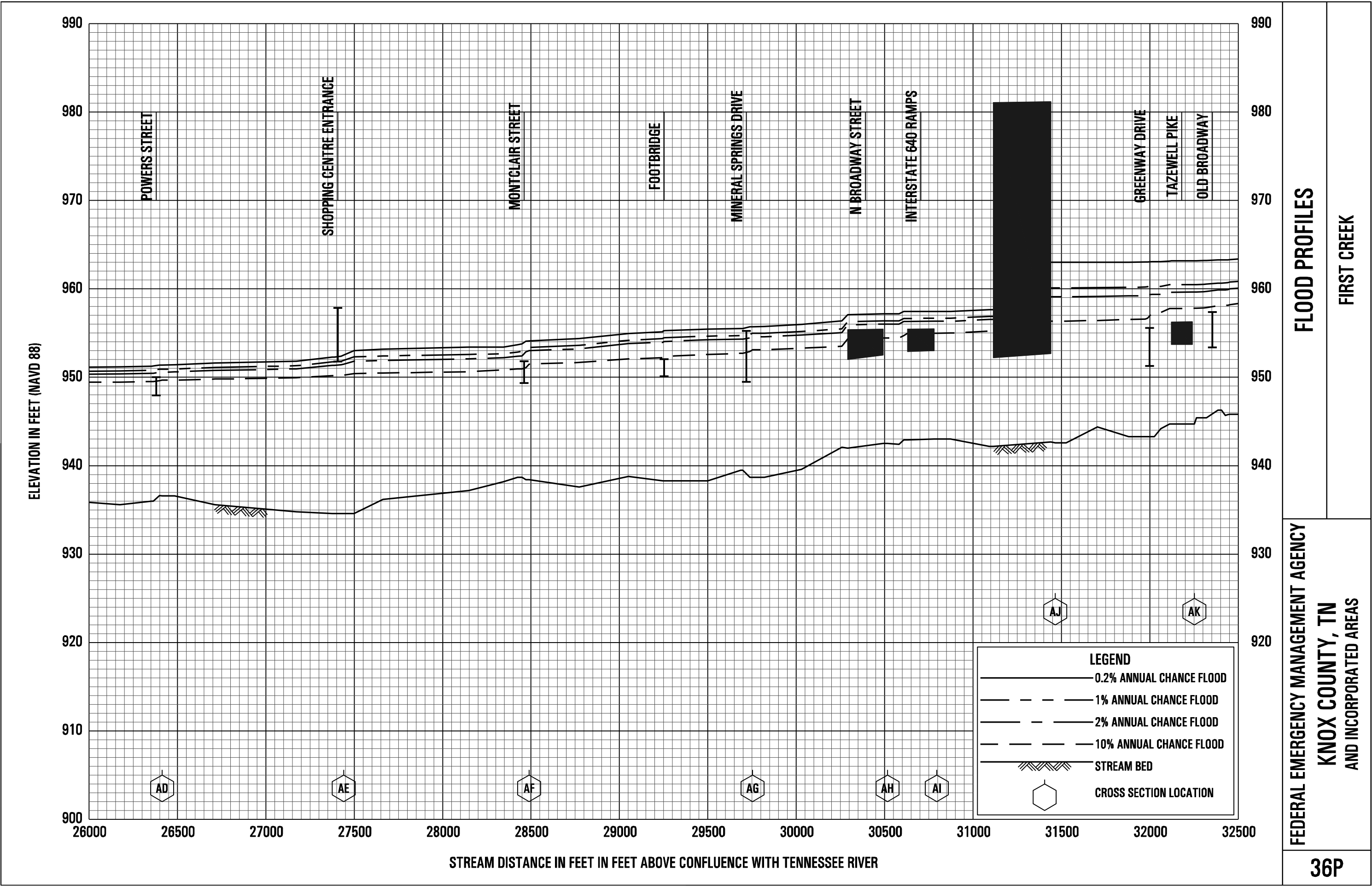
KNOX COUNTY, TN
AND INCORPORATED AREAS

31P





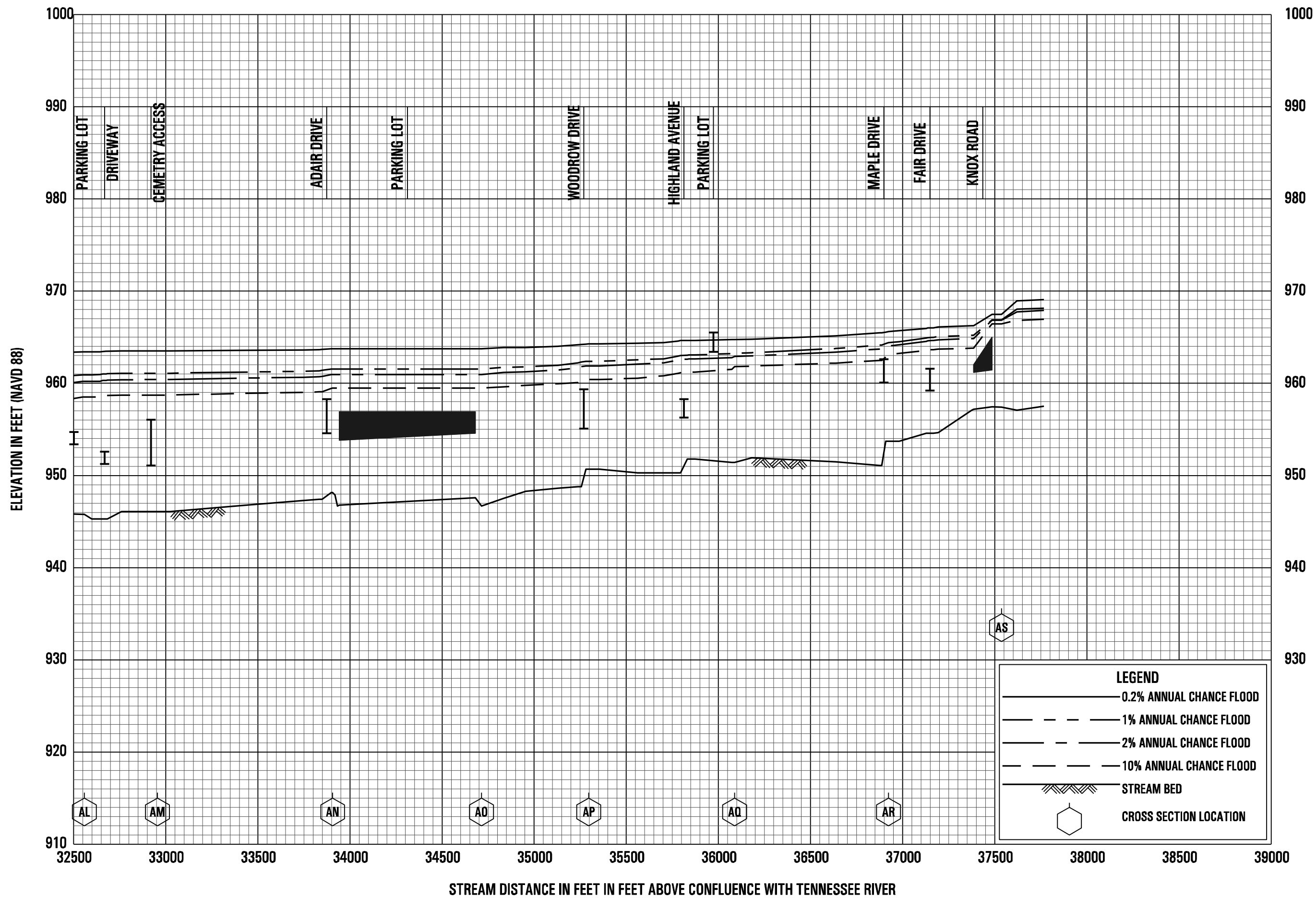




FLOOD PROFILES

FIRST CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS



STREAM DISTANCE IN FEET IN FEET ABOVE CONFLUENCE WITH TENNESSEE RIVER

**FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS**

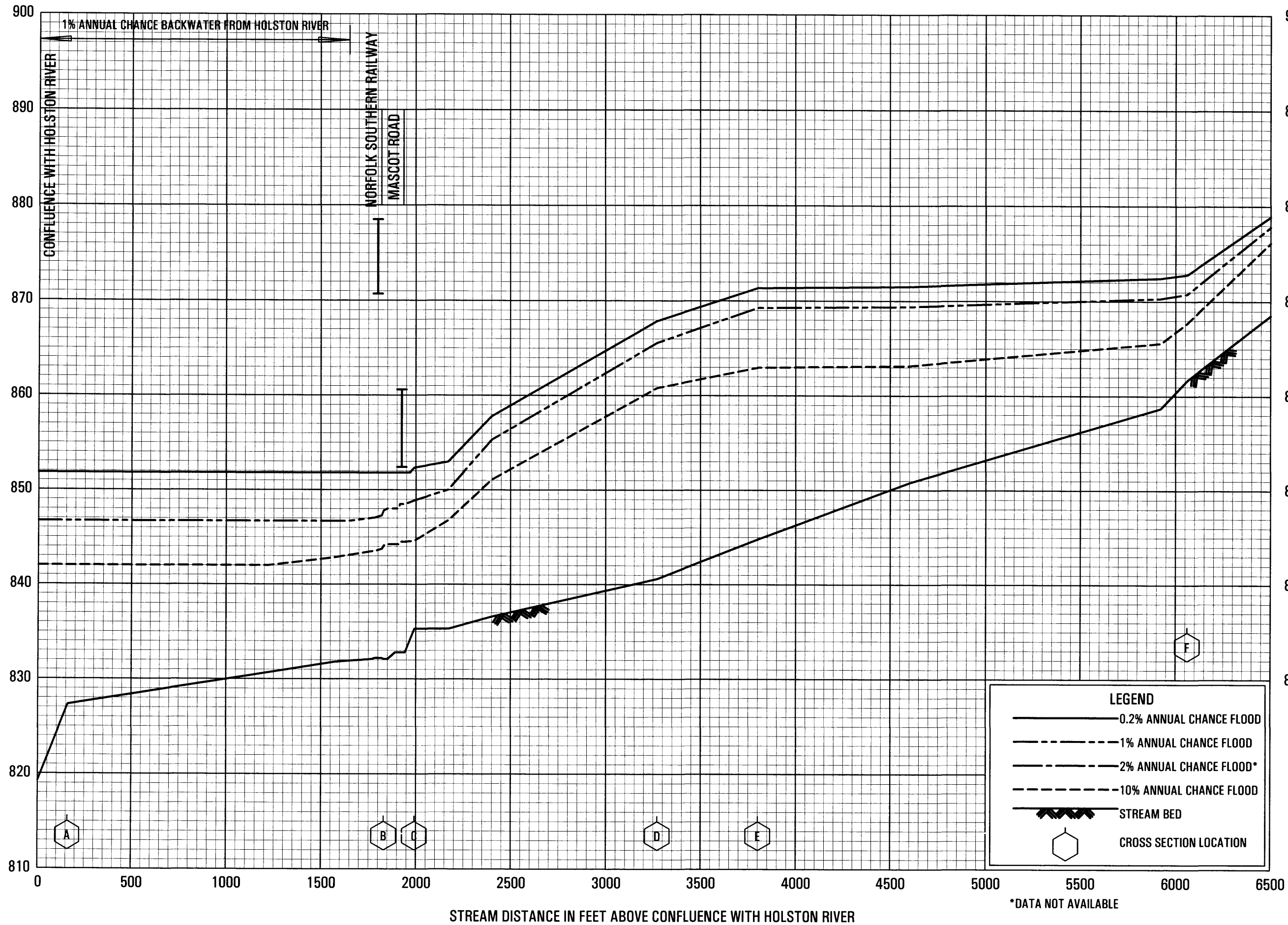
**KNOX COUNTY, TN
AND INCORPORATED AREAS**

FLOOD PROFILES

FIRST CREEK

37P

ELEVATION IN FEET (NAVD 88)

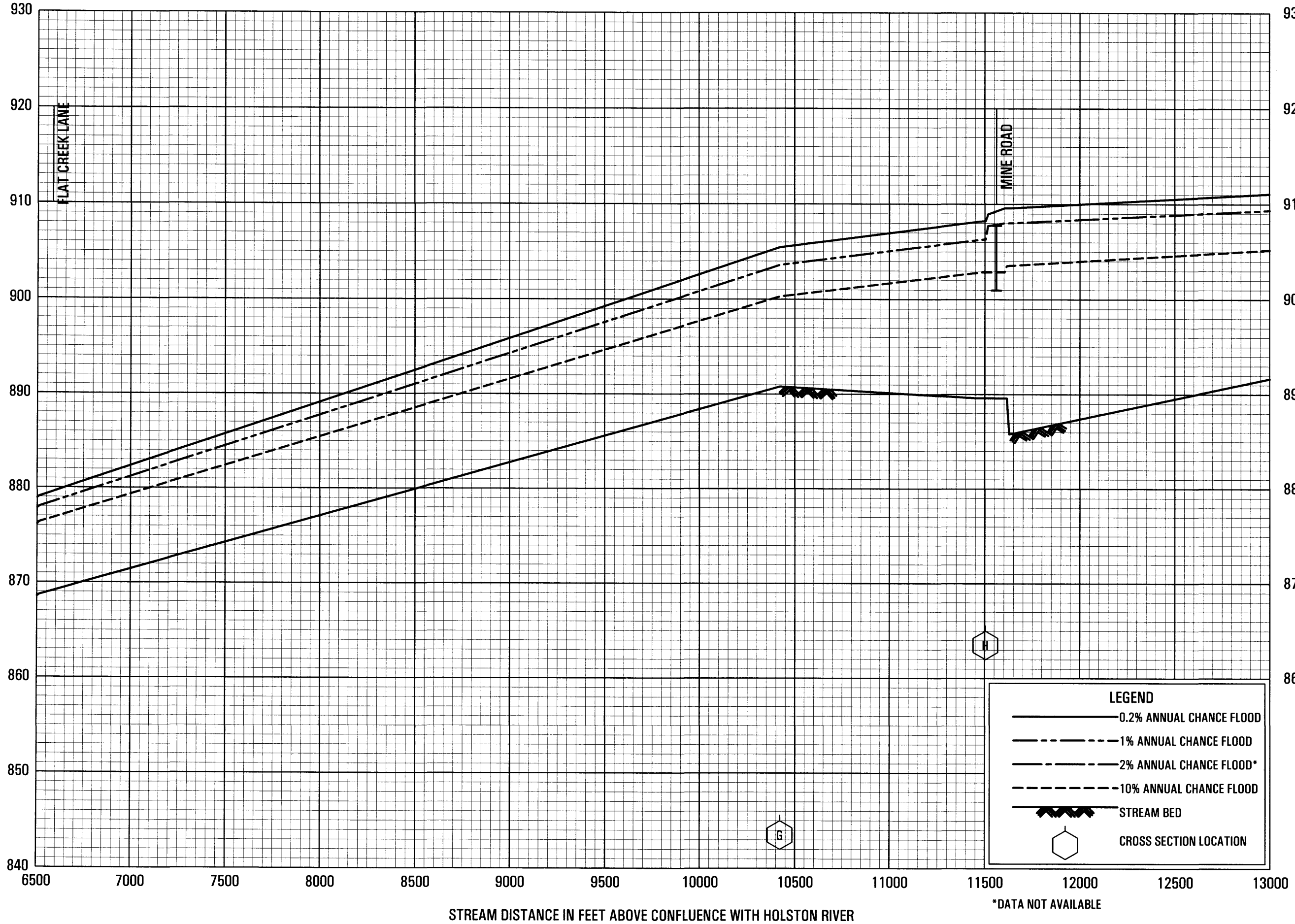


FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

FLOOD PROFILES

FLAT CREEK

ELEVATION IN FEET (NAVD 88)



FLOOD PROFILES

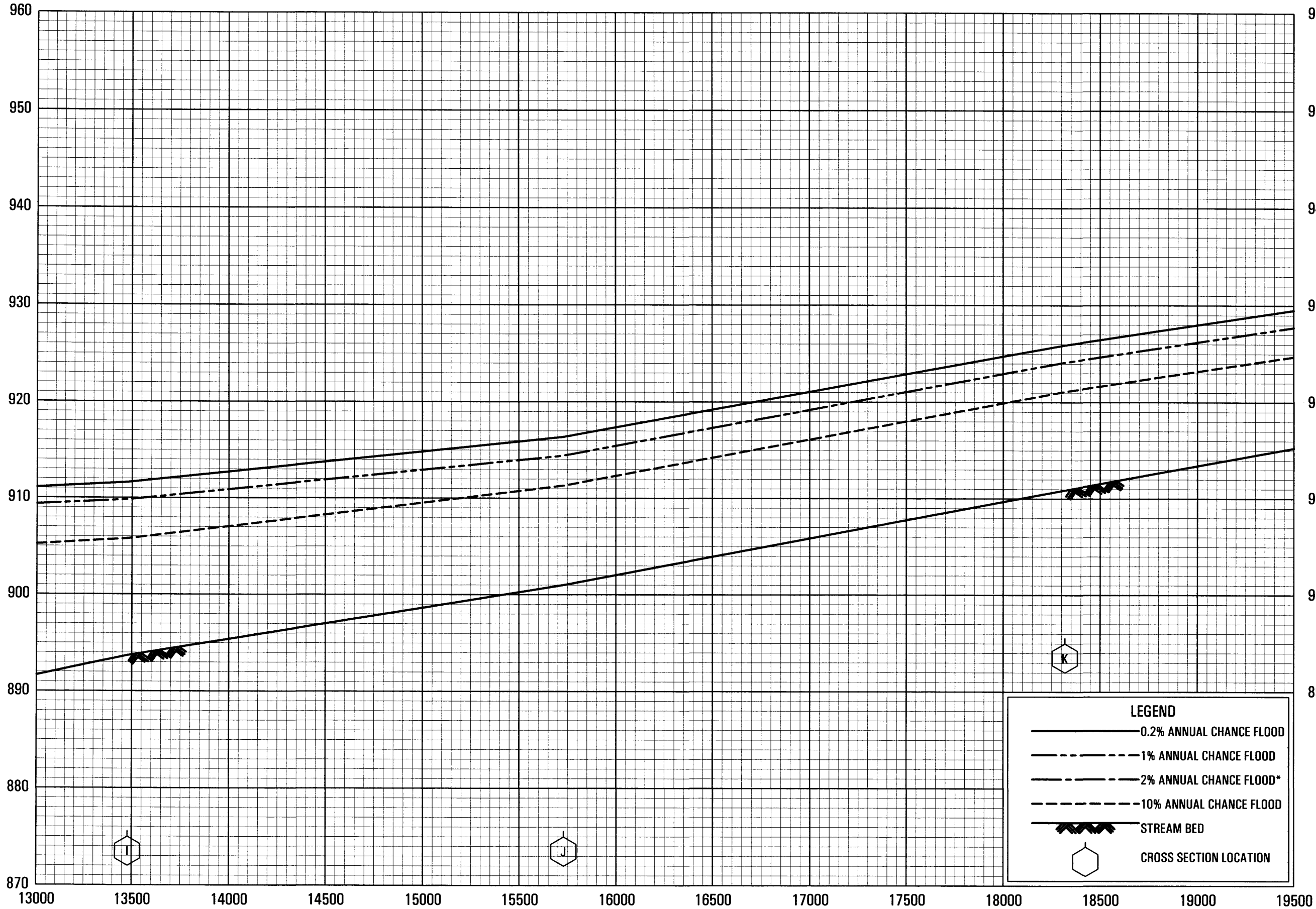
FLAT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

40P

ELEVATION IN FEET (NAVD 88)



*DATA NOT AVAILABLE

LEGEND

—

0.2% ANNUAL CHANCE FLOOD

- - -

1% ANNUAL CHANCE FLOOD

- · - · -

2% ANNUAL CHANCE FLOOD*

- - - - -

10% ANNUAL CHANCE FLOOD

▲▲▲▲▲

STREAM BED

⬡

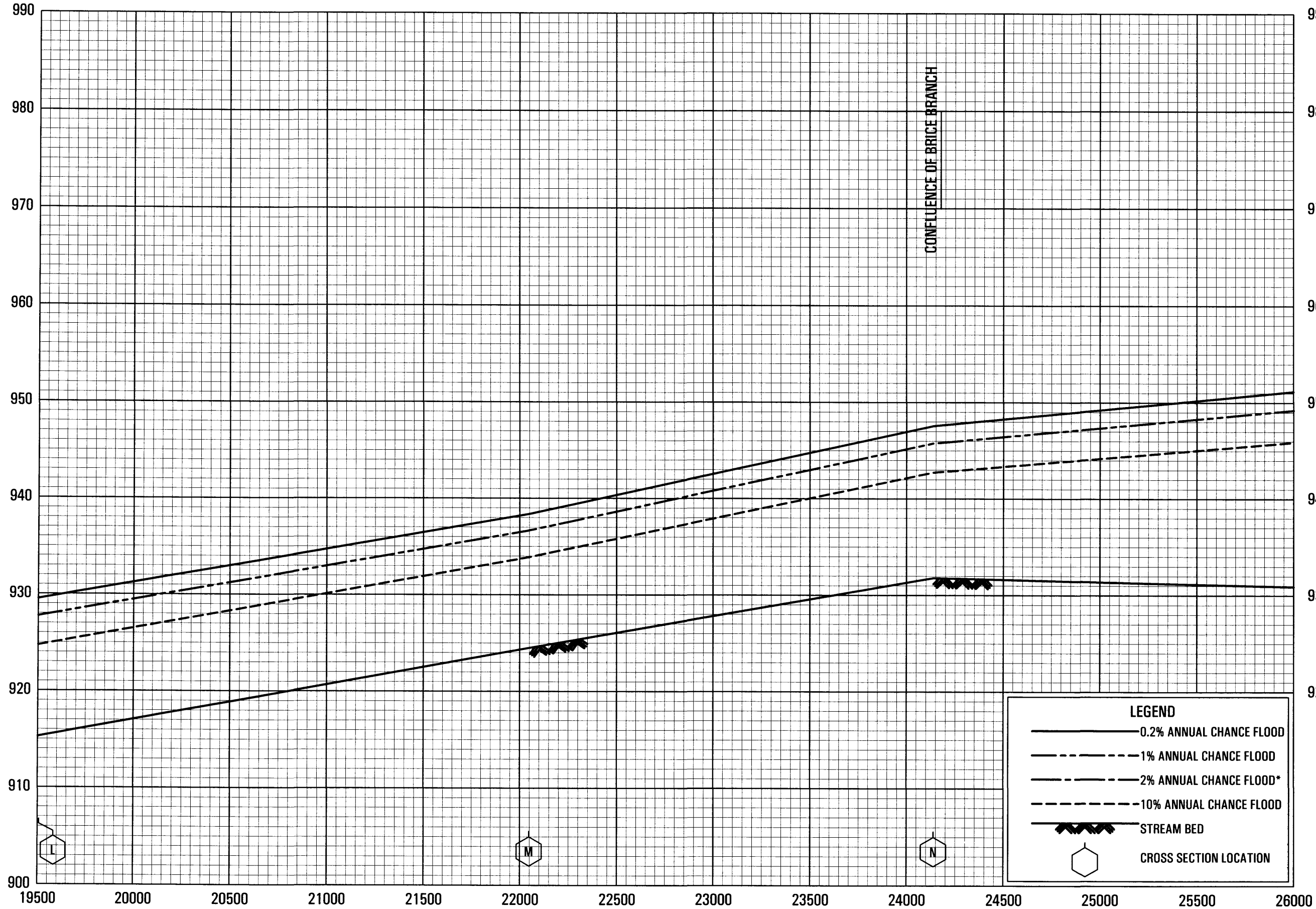
CROSS SECTION LOCATION

FLOOD PROFILES

FLAT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



LEGEND

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

*DATA NOT AVAILABLE

FLOOD PROFILES

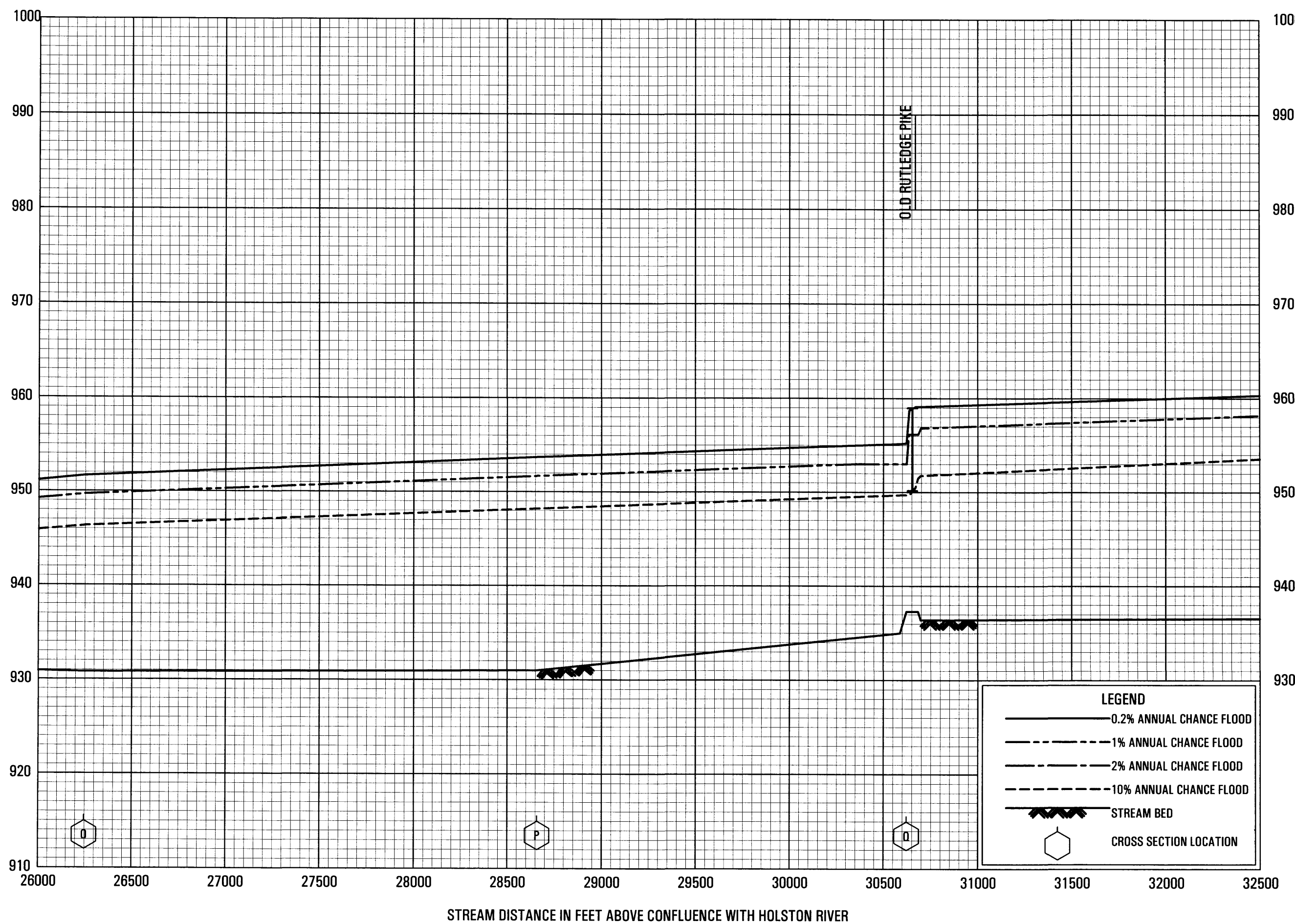
FLAT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN

AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



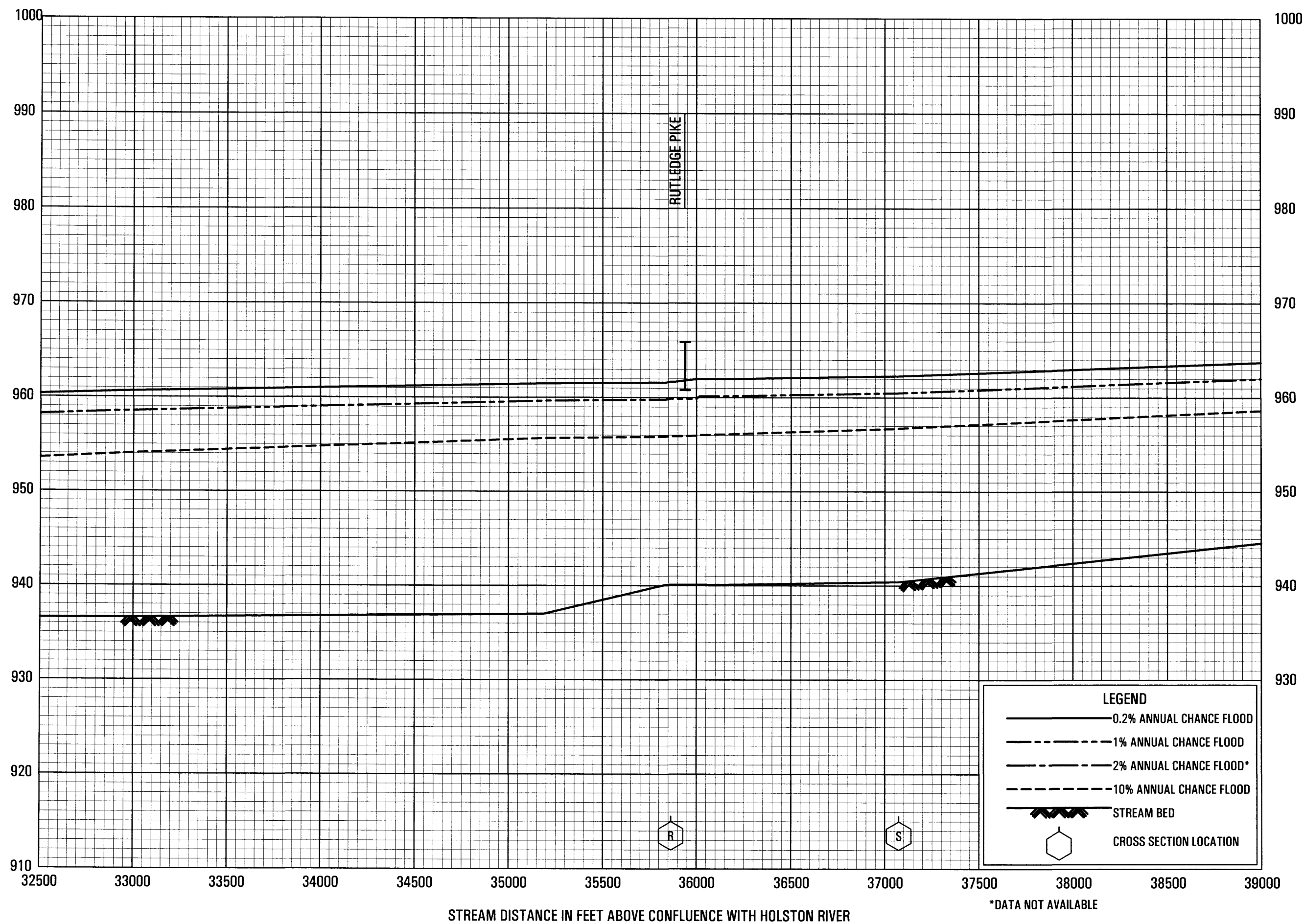
FLOOD PROFILES

FLAT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)

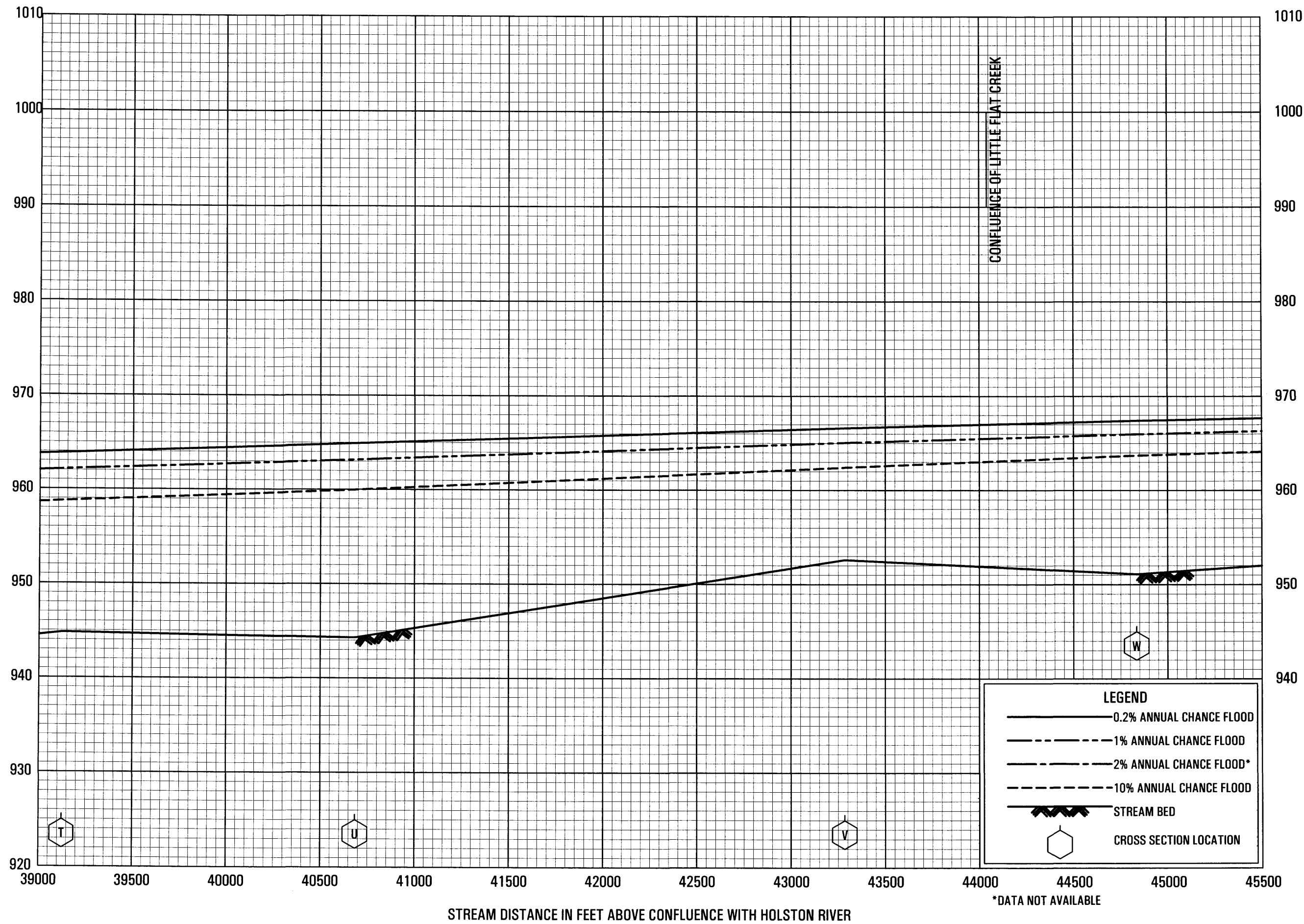


FLOOD PROFILES

FLAT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



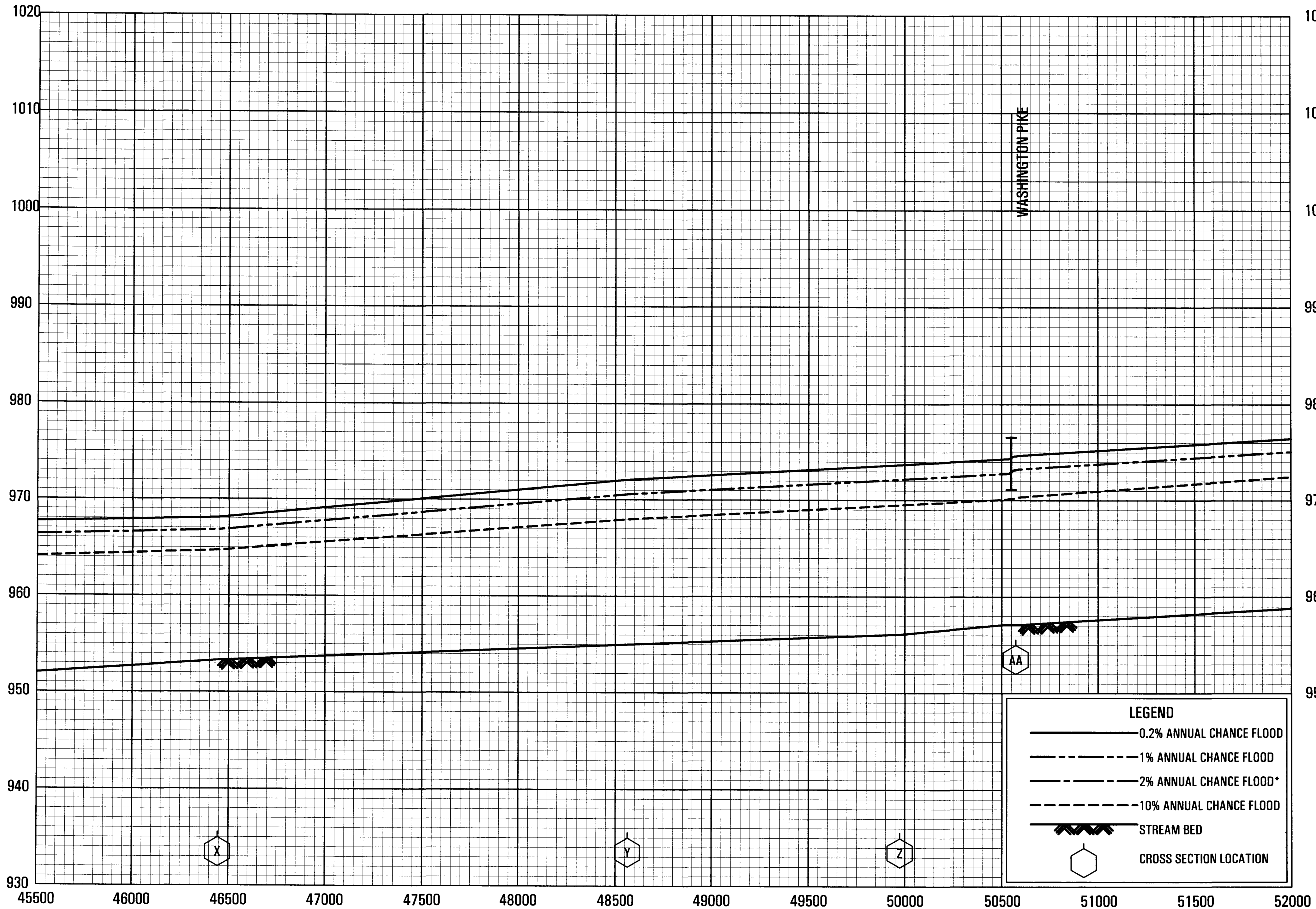
FLOOD PROFILES

FLAT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

45P

ELEVATION IN FEET (NAVD 88)

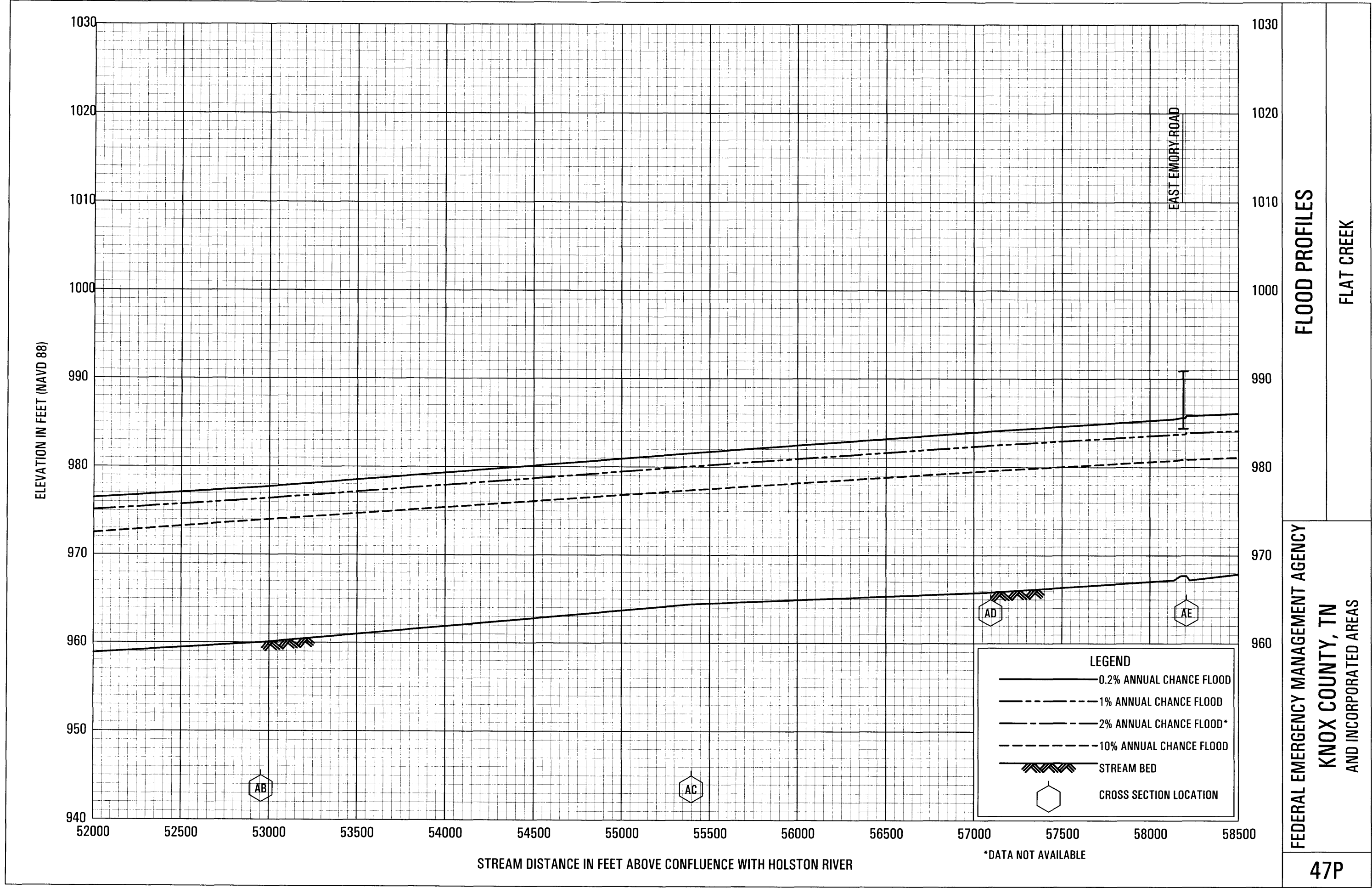


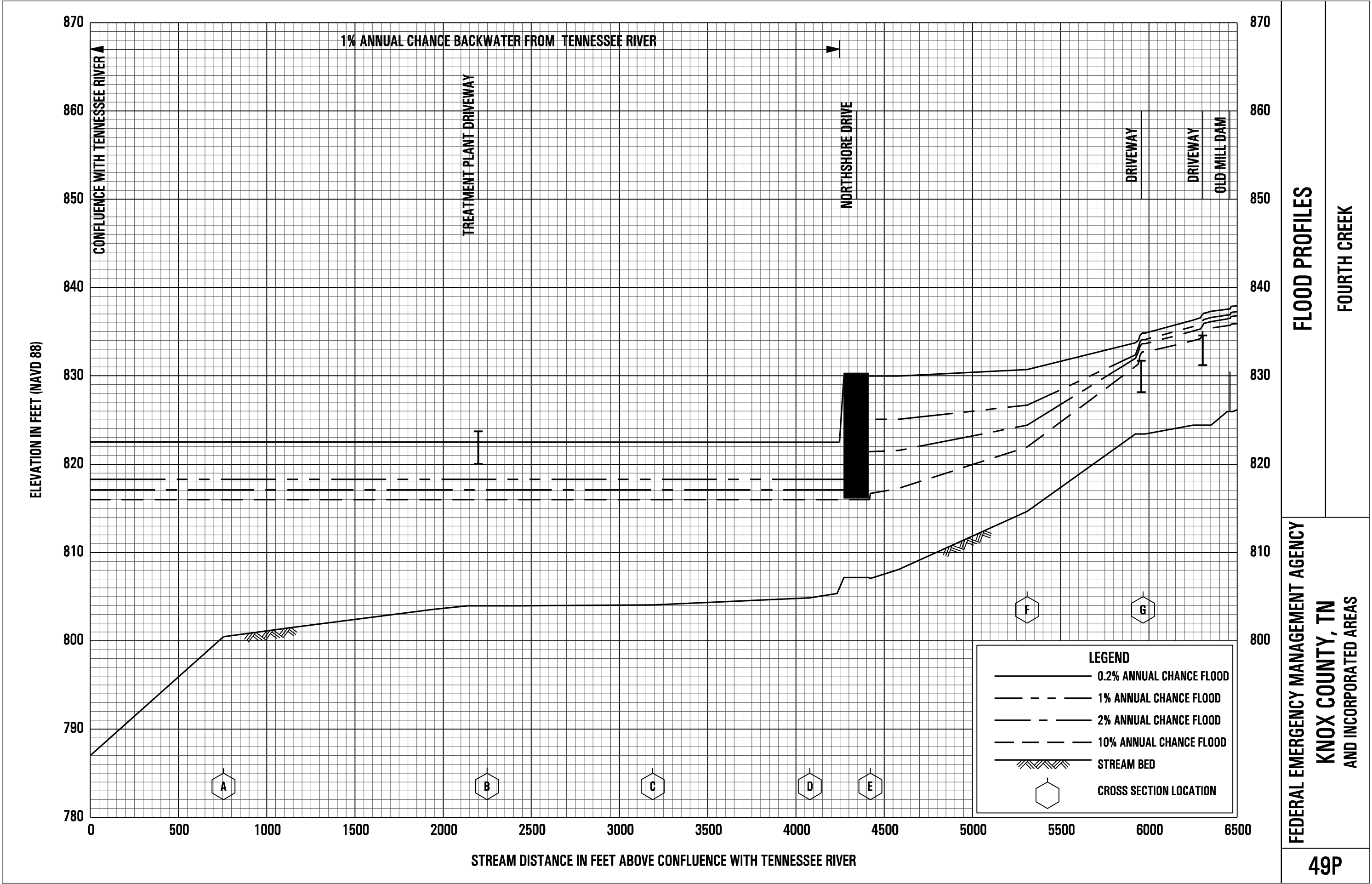
FLOOD PROFILES

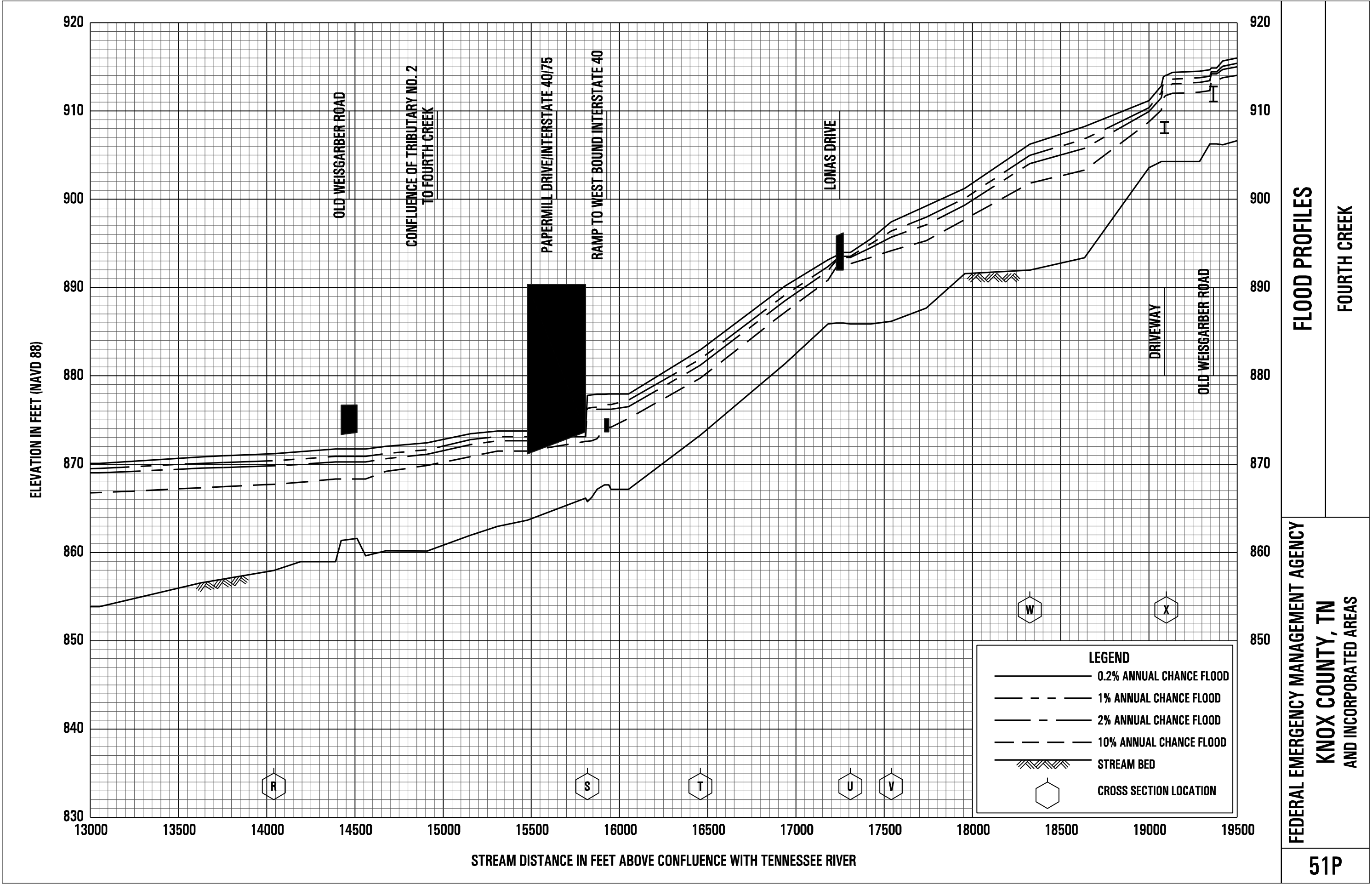
FLAT CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

46P



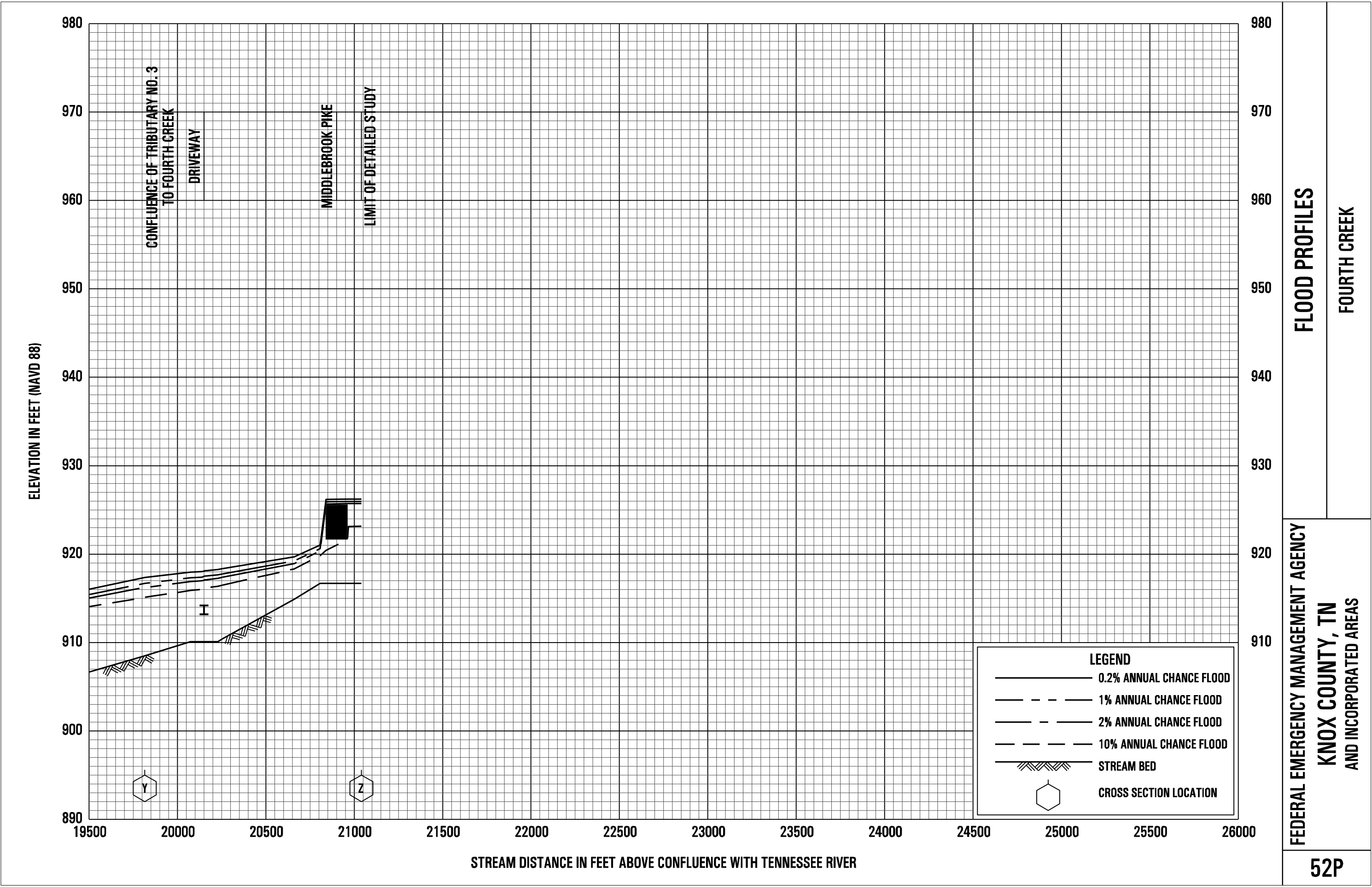




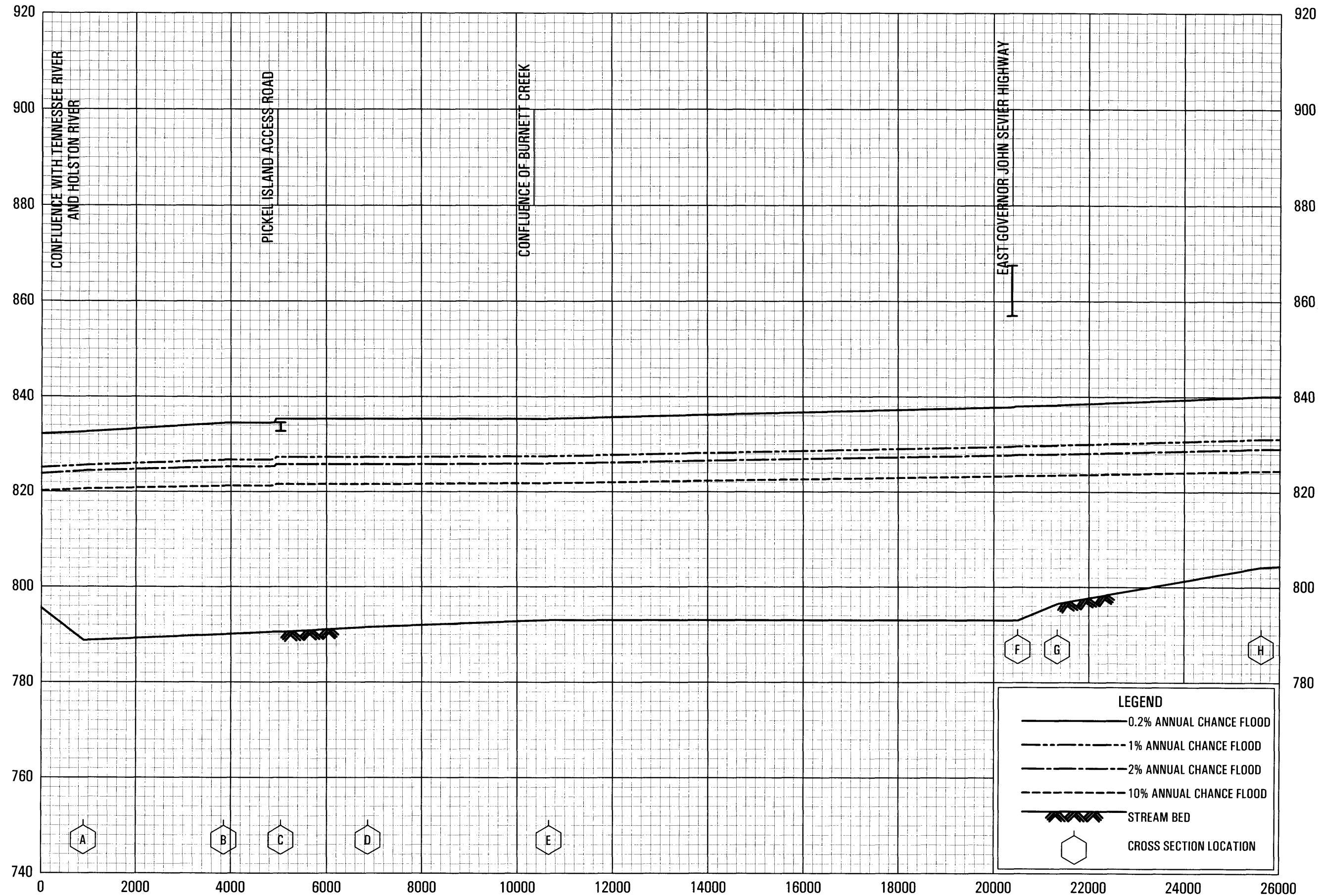
FLOOD PROFILES

FOURTH CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS



ELEVATION IN FEET (NAVD 88)



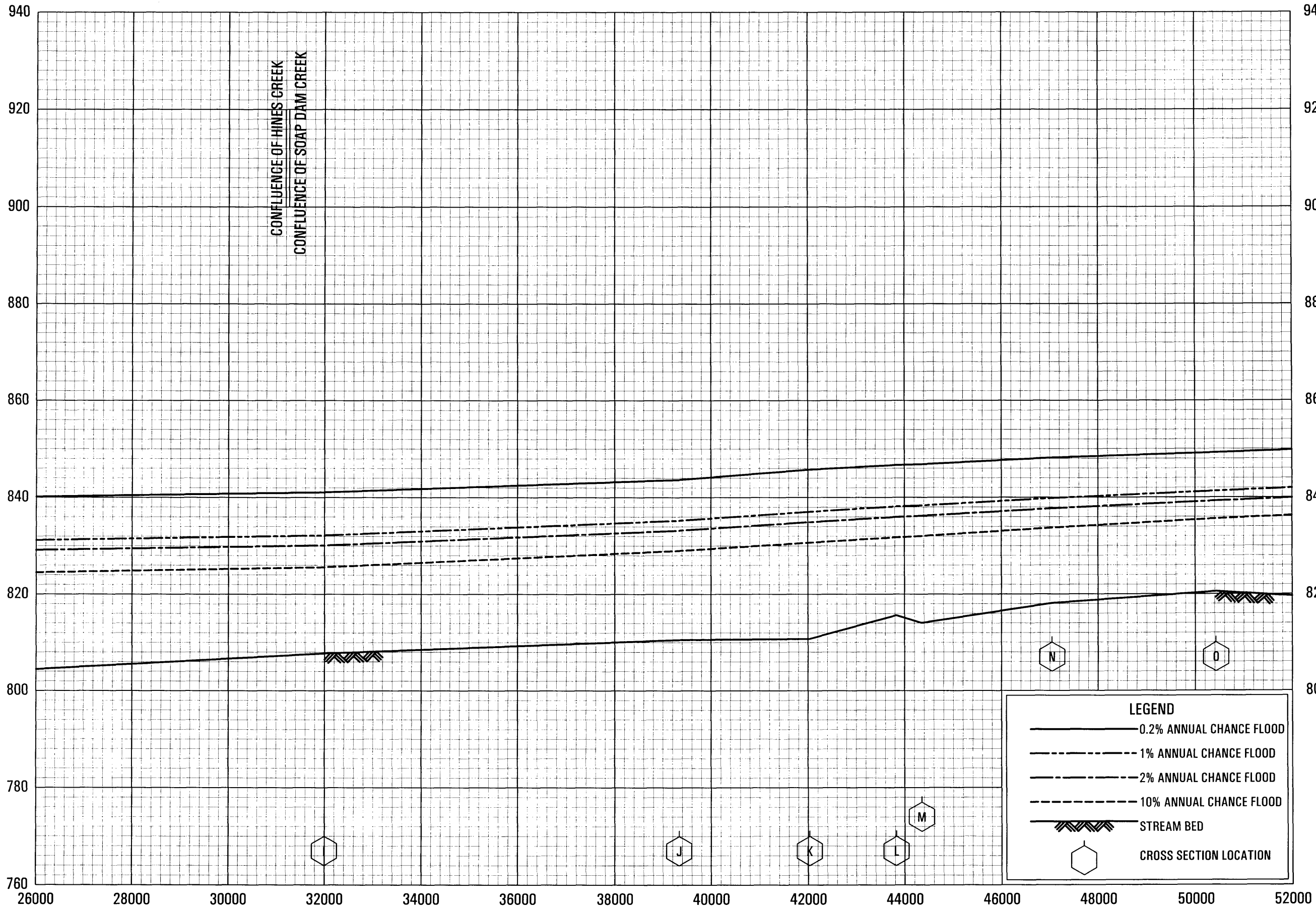
FLOOD PROFILES

FRENCH BROAD RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE MOUTH

FLOOD PROFILES

FRENCH BROAD RIVER

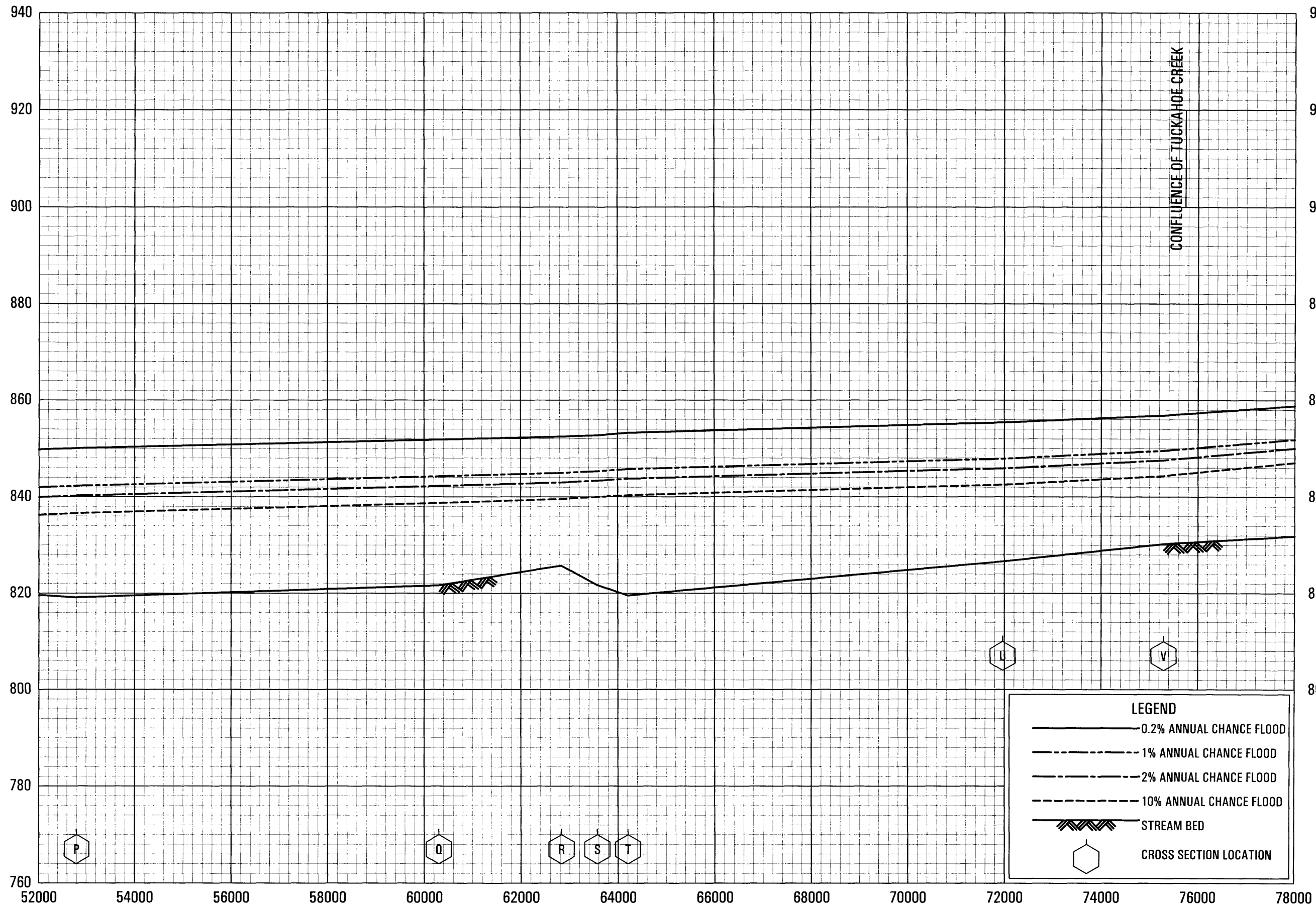
FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN

AND INCORPORATED AREAS

54P

ELEVATION IN FEET (NAVD 88)

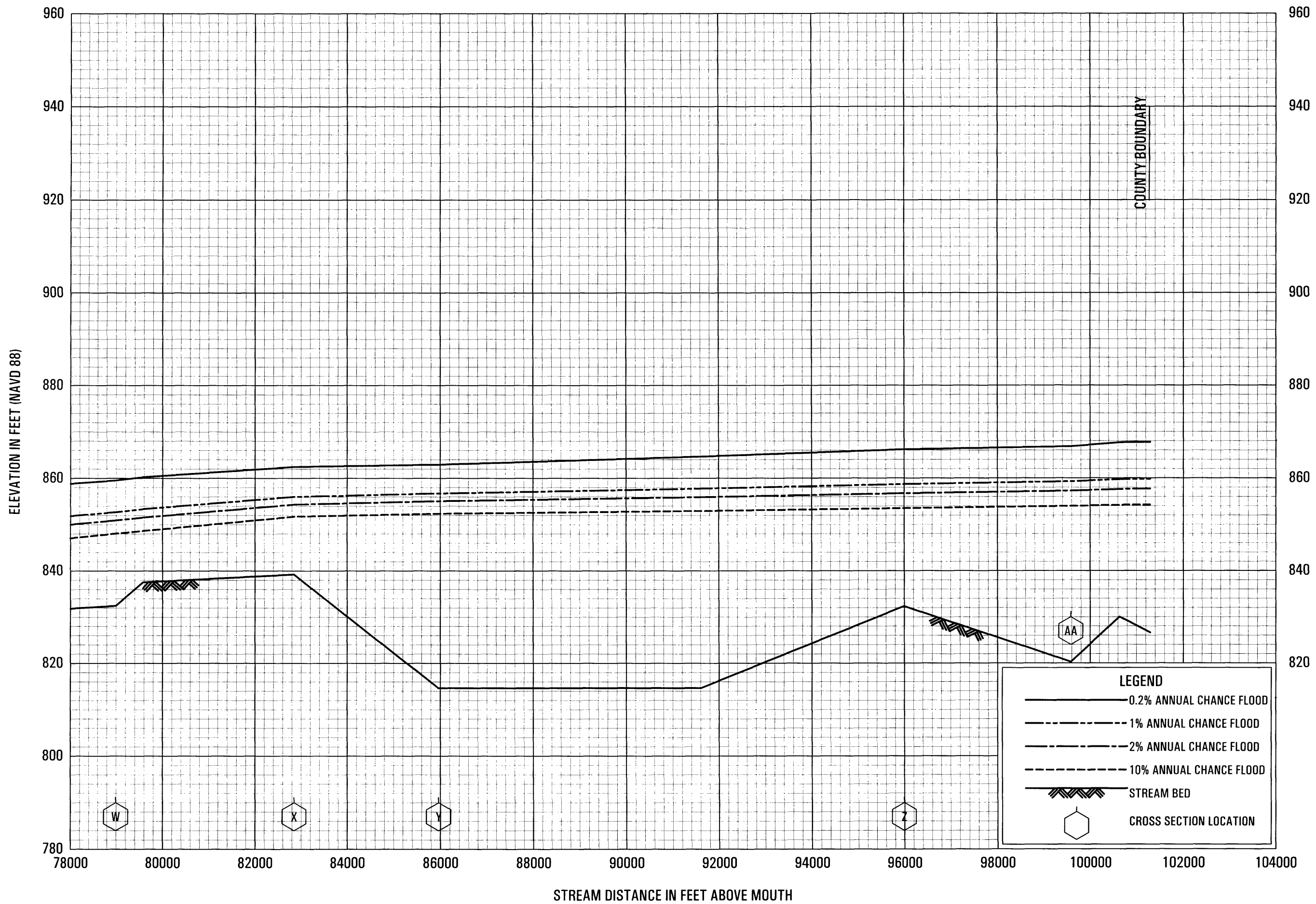


FLOOD PROFILES

FRENCH BROAD RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

55P



FLOOD PROFILES

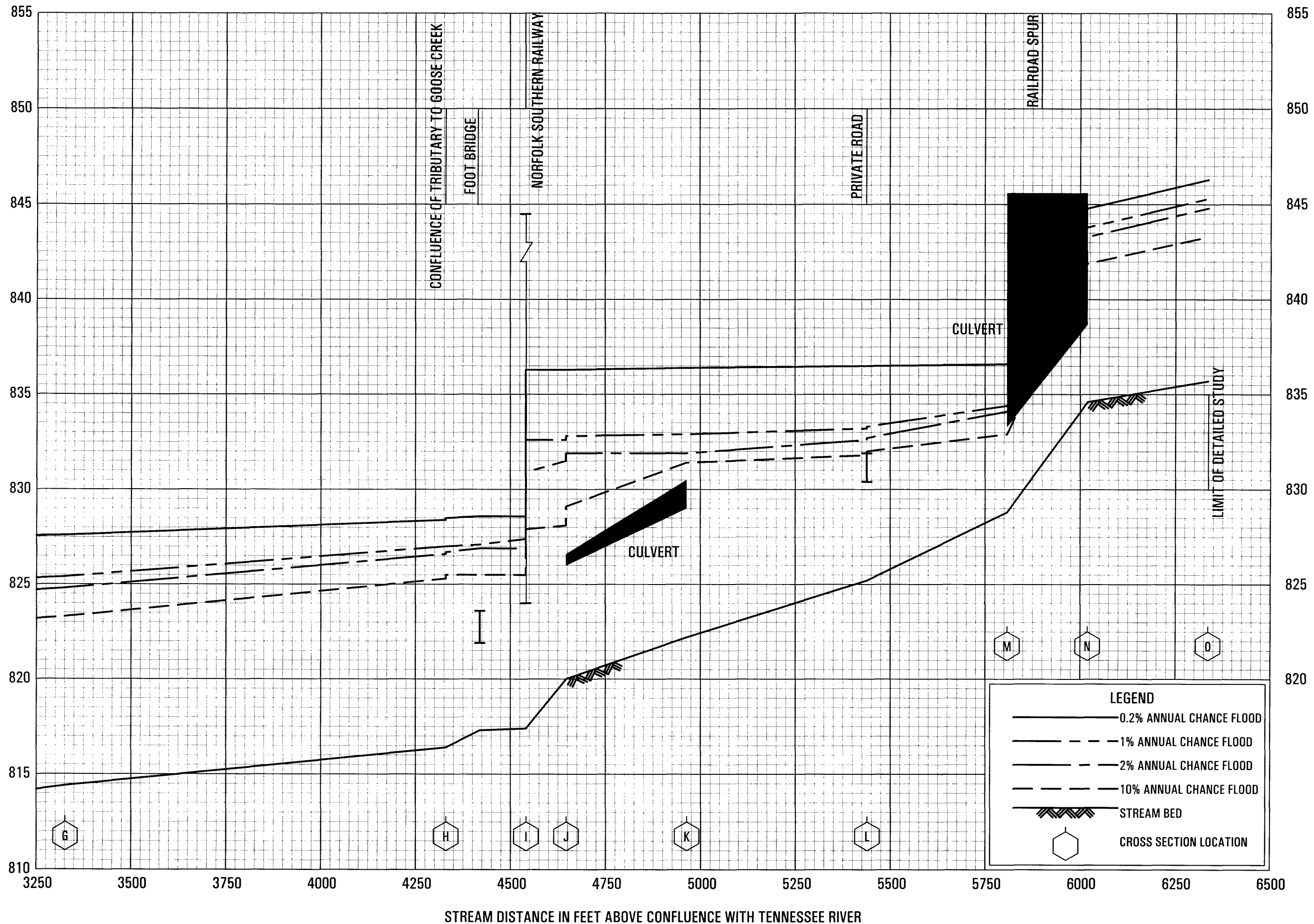
FRENCH BROAD RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

56P

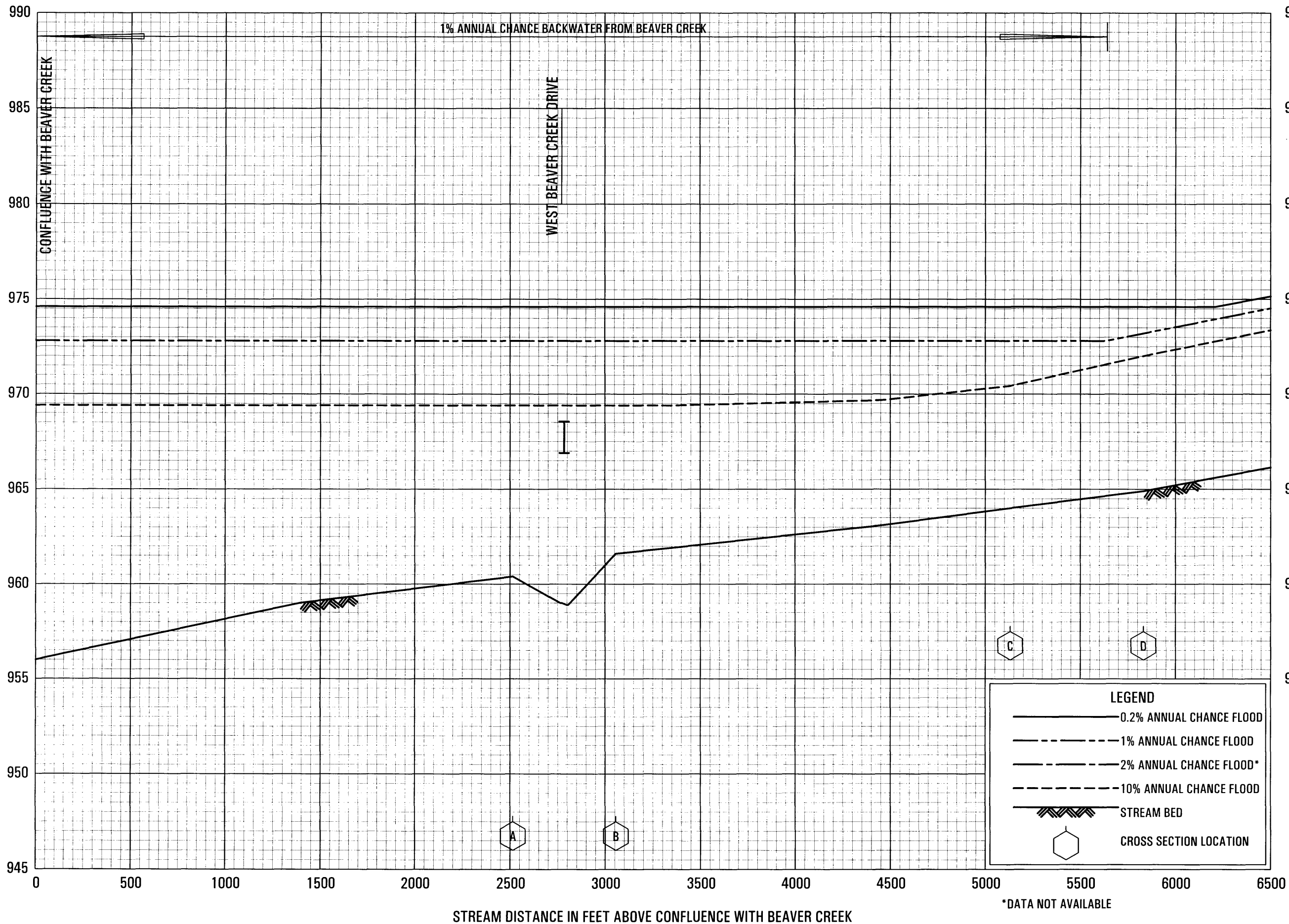
ELEVATION IN FEET (NAVD 88)



FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

FLOOD PROFILES
GOOSE CREEK

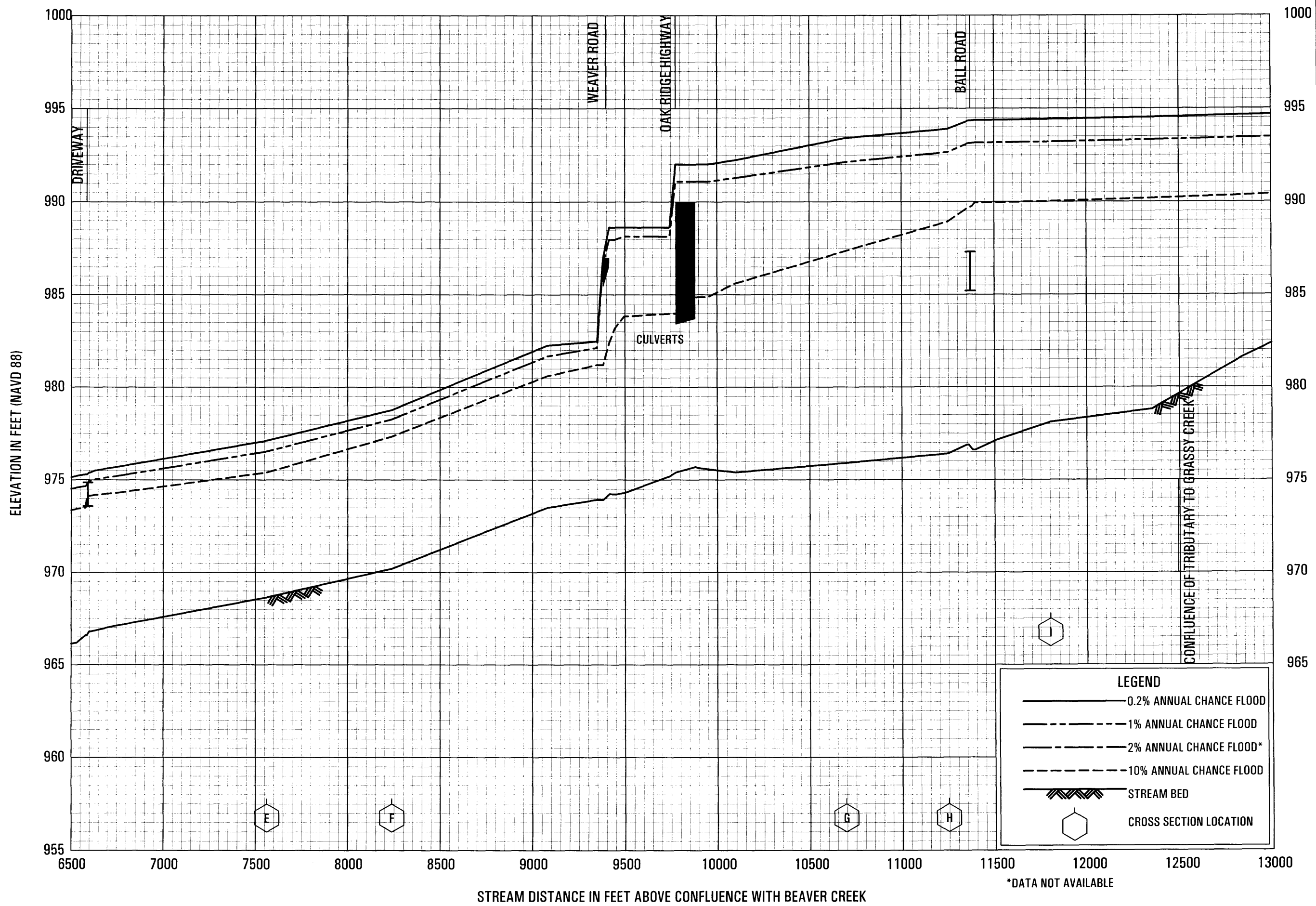
ELEVATION IN FEET (NAVD 88)



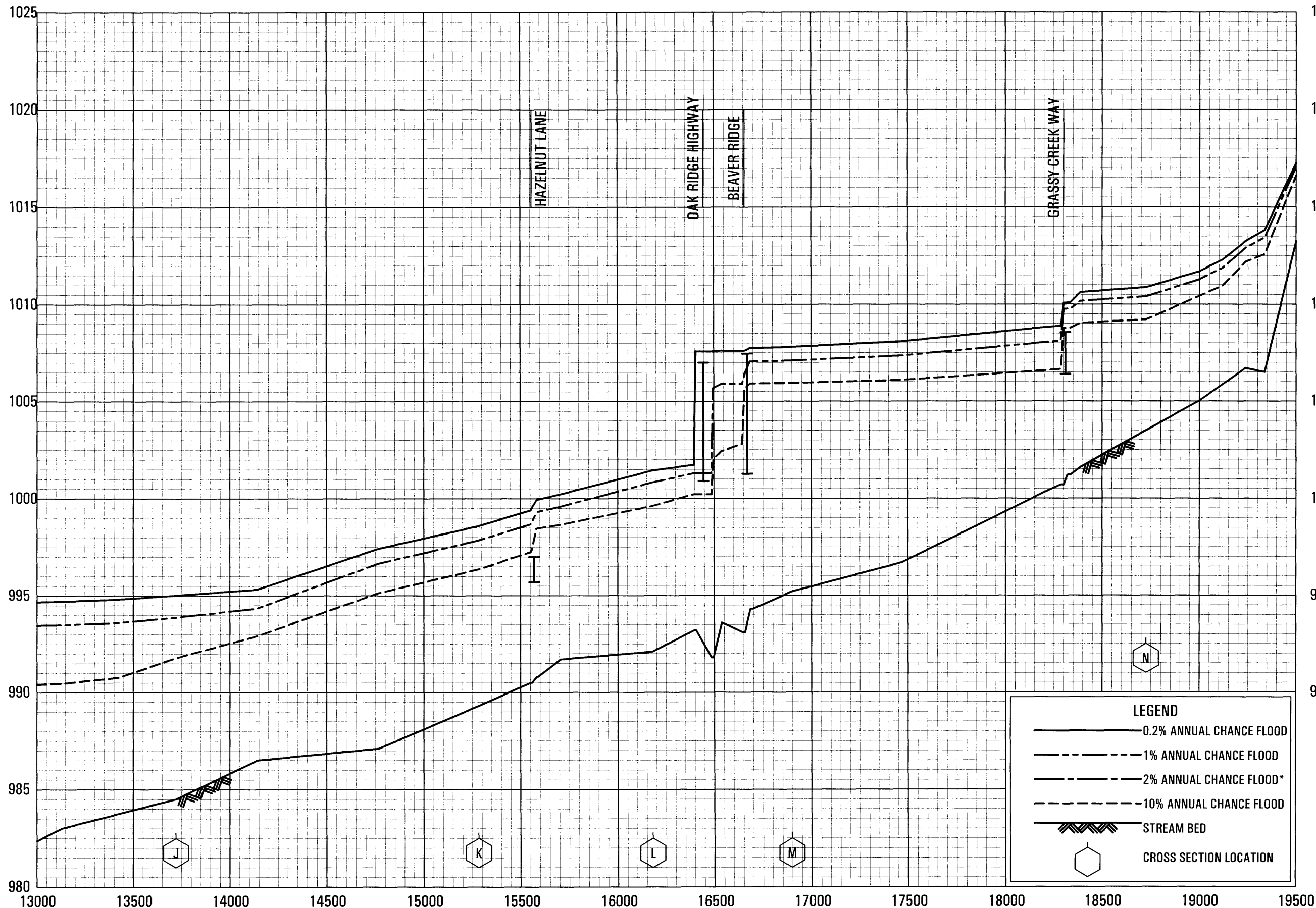
FLOOD PROFILES

GRASSY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS



ELEVATION IN FEET (NAVD 88)



*DATA NOT AVAILABLE

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH BEAVER CREEK

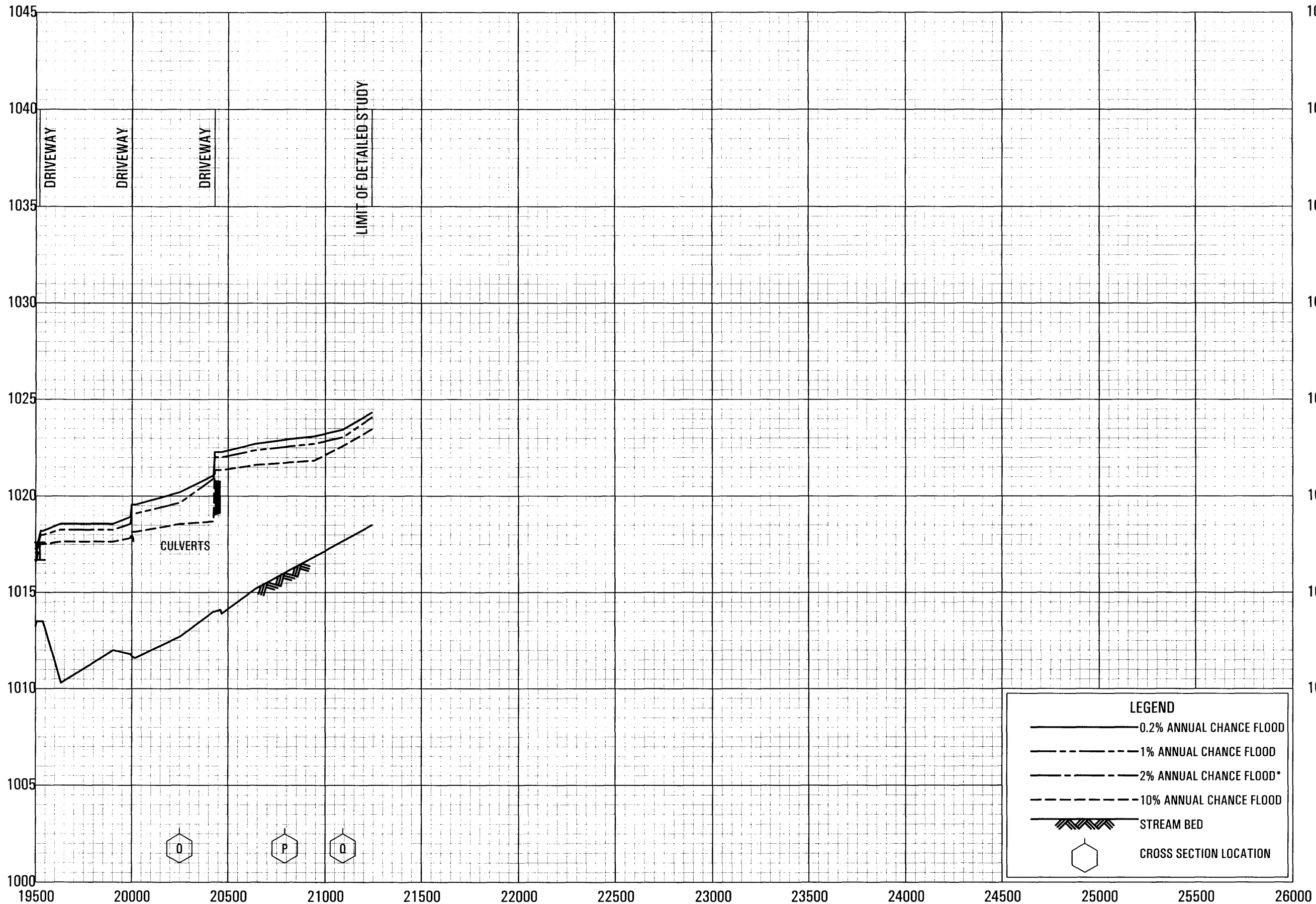
FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

FLOOD PROFILES

GRASSY CREEK

61P

ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH BEAVER CREEK

*DATA NOT AVAILABLE

FEDERAL EMERGENCY MANAGEMENT AGENCY

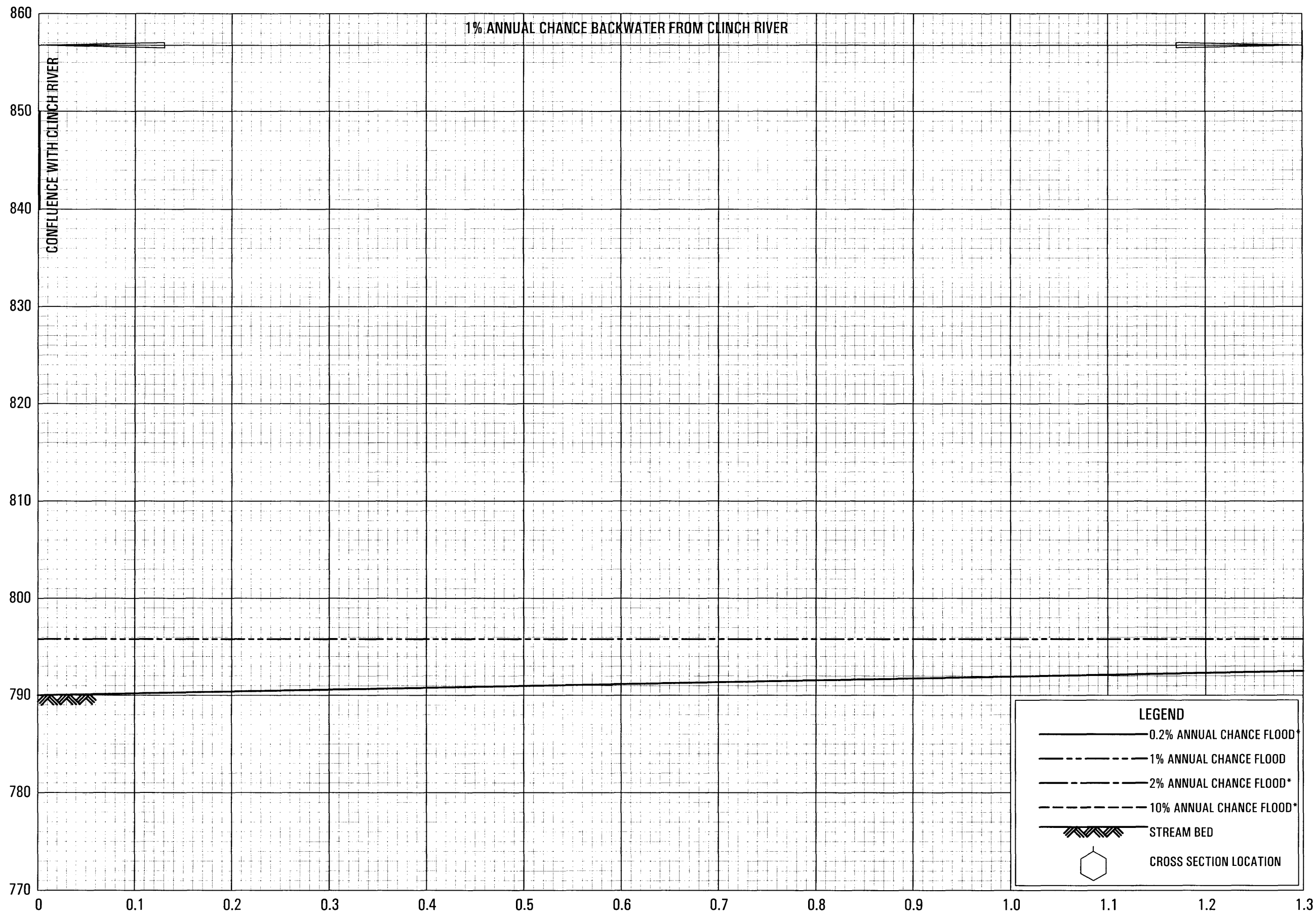
KNOX COUNTY, TN
AND INCORPORATED AREAS

FLOOD PROFILES

GRASSY CREEK

62P

ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN MILES ABOVE CONFLUENCE WITH CLINCH RIVER

*DATA NOT AVAILABLE

LEGEND

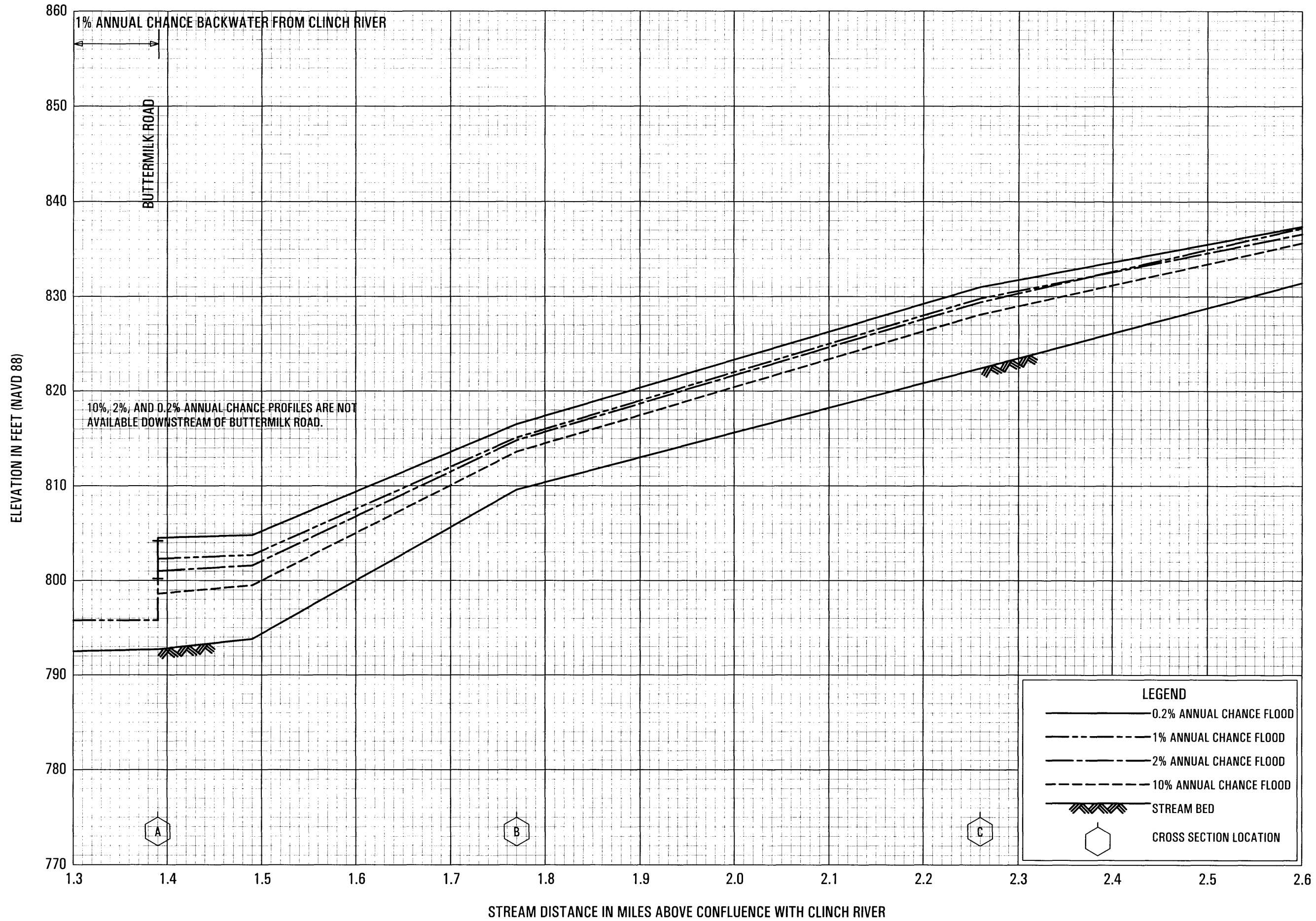
- 0.2% ANNUAL CHANCE FLOOD*
- 1% ANNUAL CHANCE FLOOD
- 2% ANNUAL CHANCE FLOOD*
- 10% ANNUAL CHANCE FLOOD*
- STREAM BED
- CROSS SECTION LOCATION

FLOOD PROFILES

HICKORY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS

63P



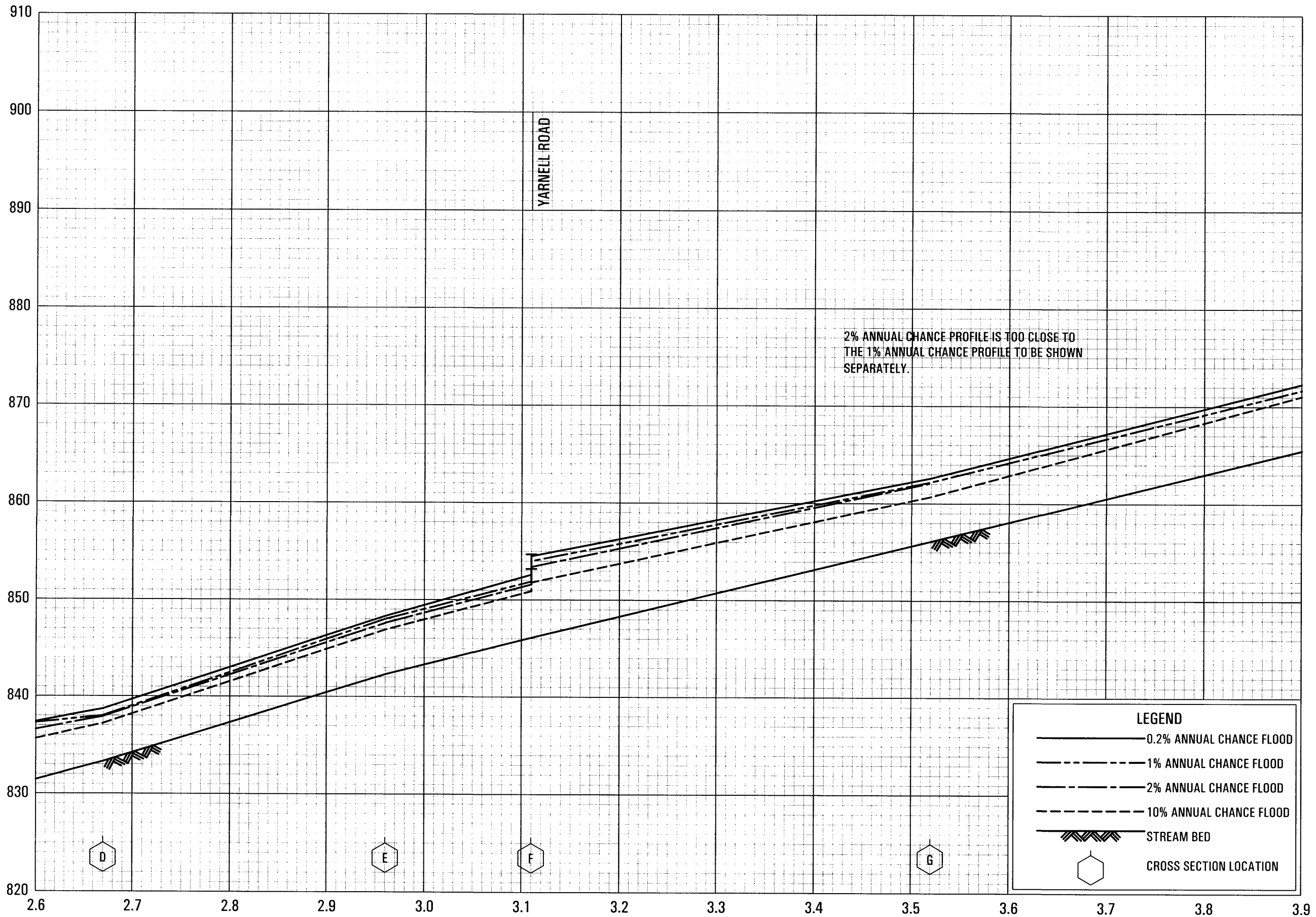
FLOOD PROFILES

HICKORY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)

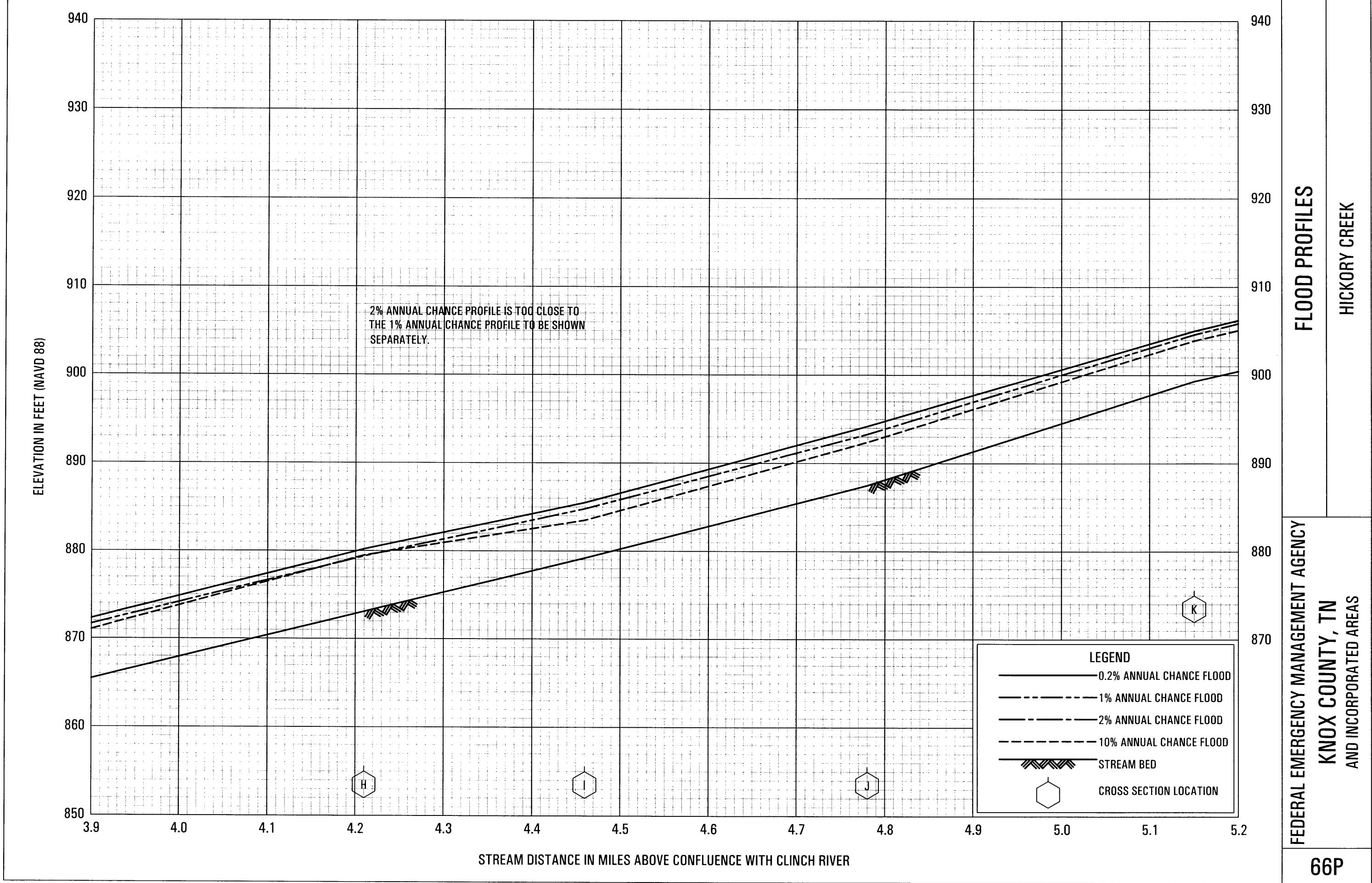


STREAM DISTANCE IN MILES ABOVE CONFLUENCE WITH CLINCH RIVER

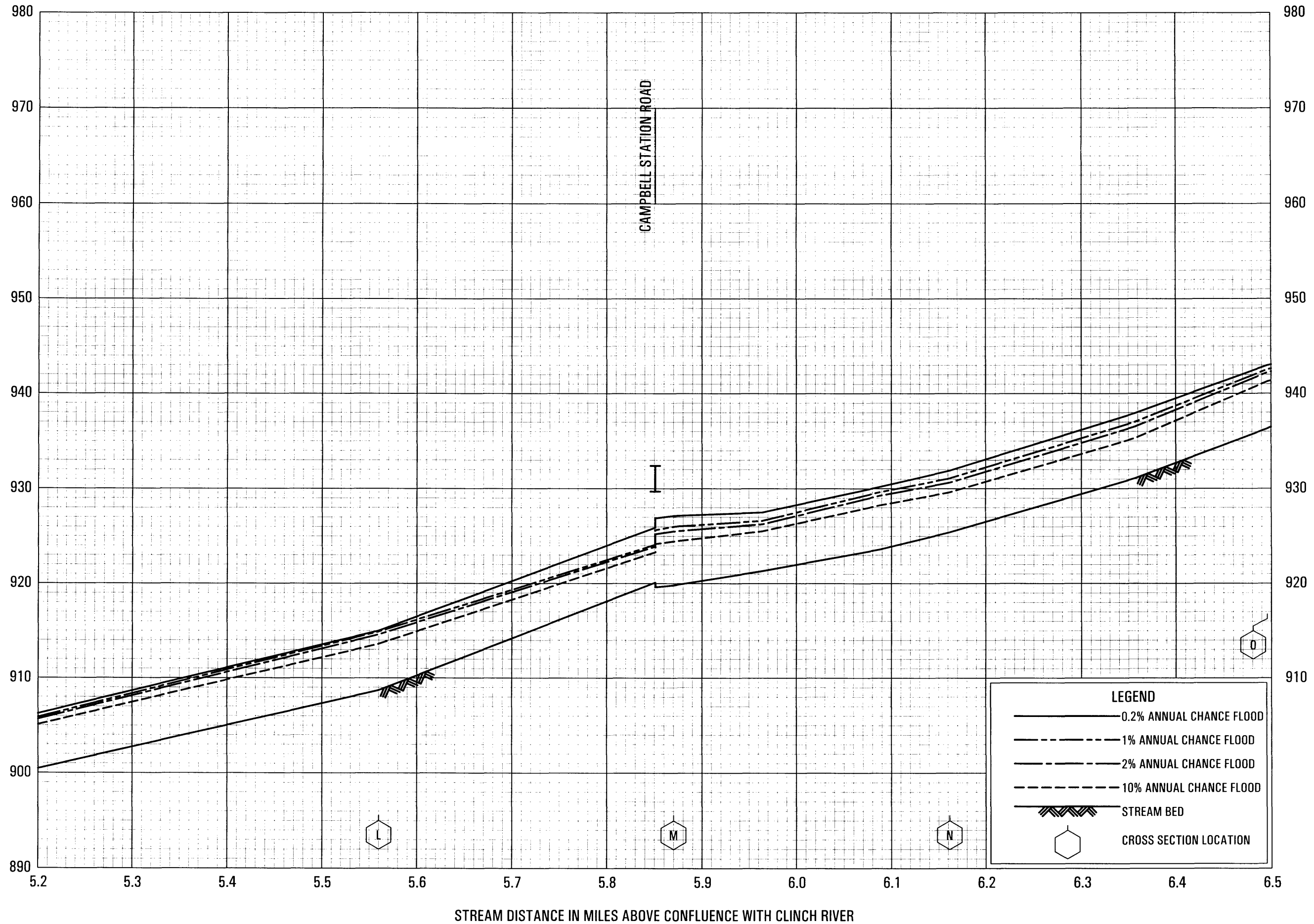
FLOOD PROFILES

HICKORY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS



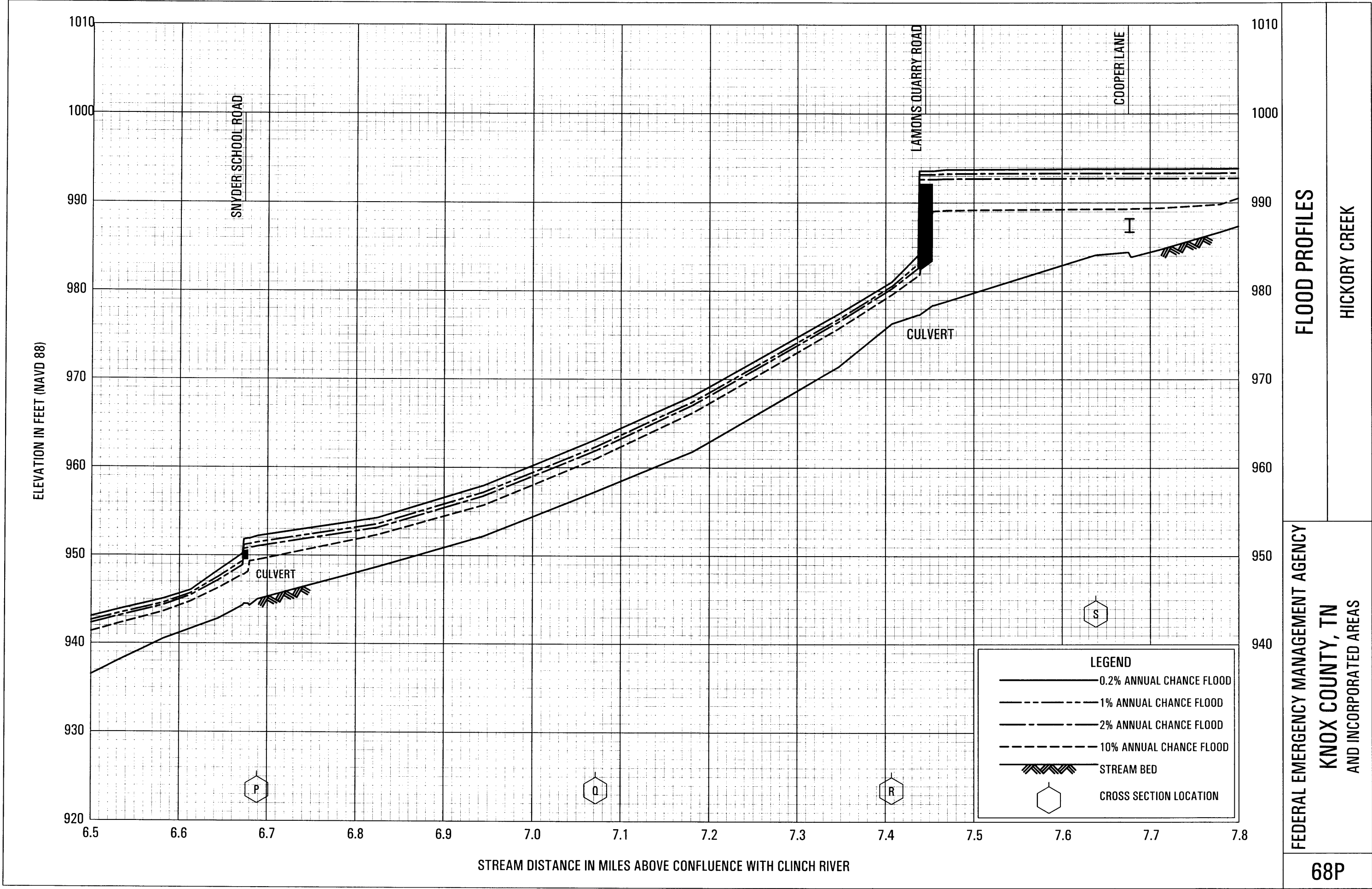
ELEVATION IN FEET (NAVD 88)



FLOOD PROFILES

HICKORY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY
KNOX COUNTY, TN
AND INCORPORATED AREAS



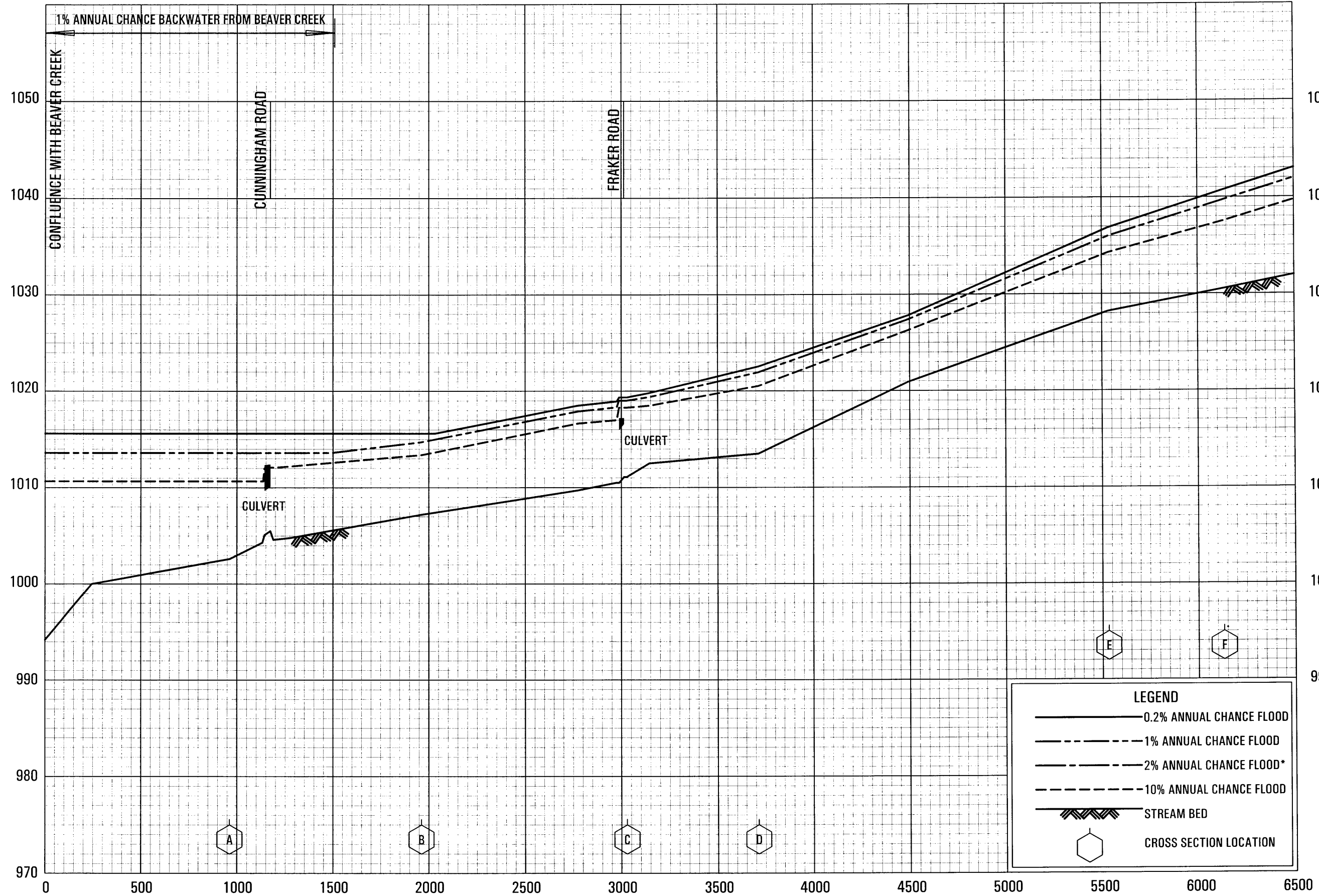
FLOOD PROFILES

HICKORY CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH BEAVER CREEK

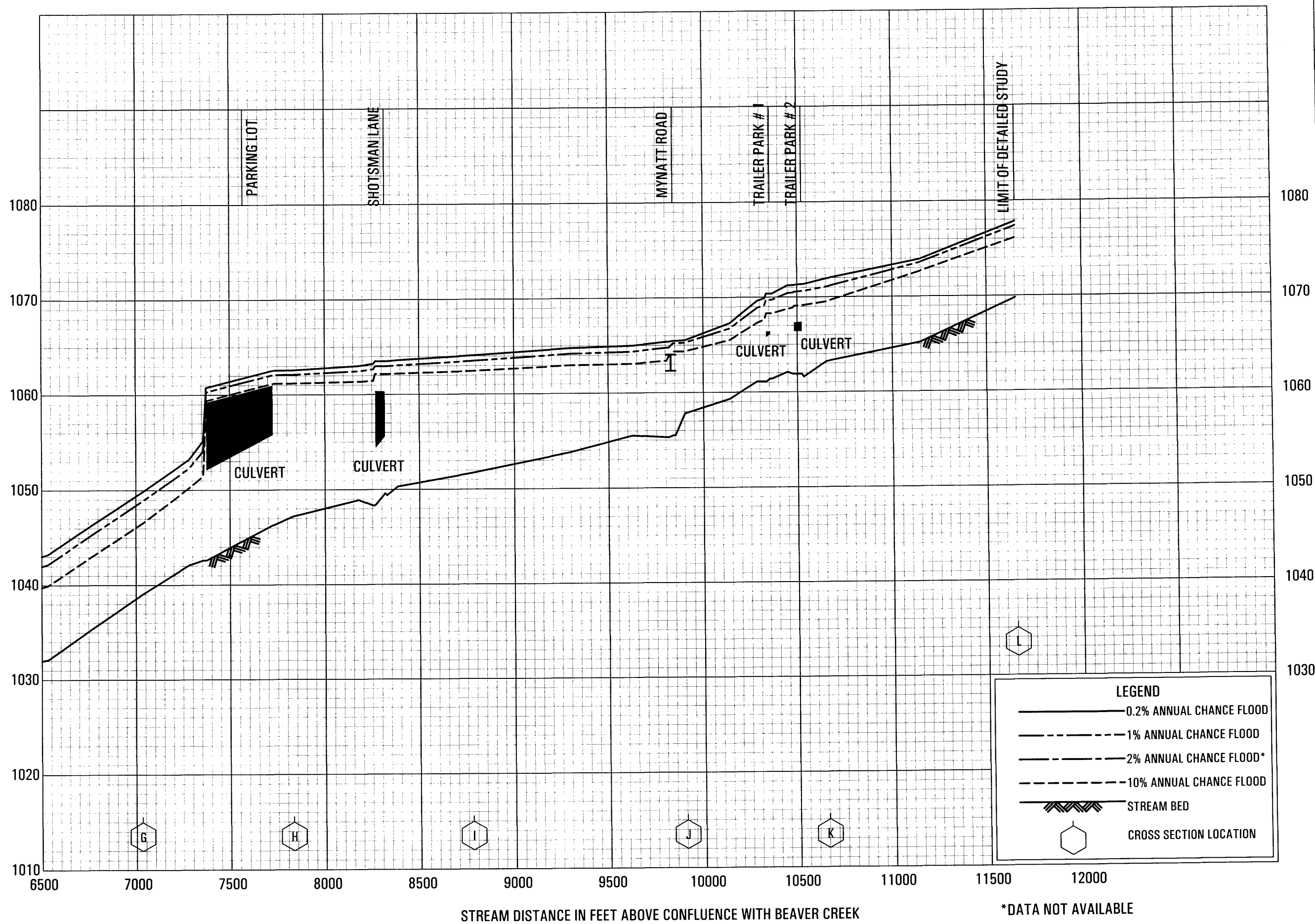
FLOOD PROFILES

HINES BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



FLOOD PROFILES

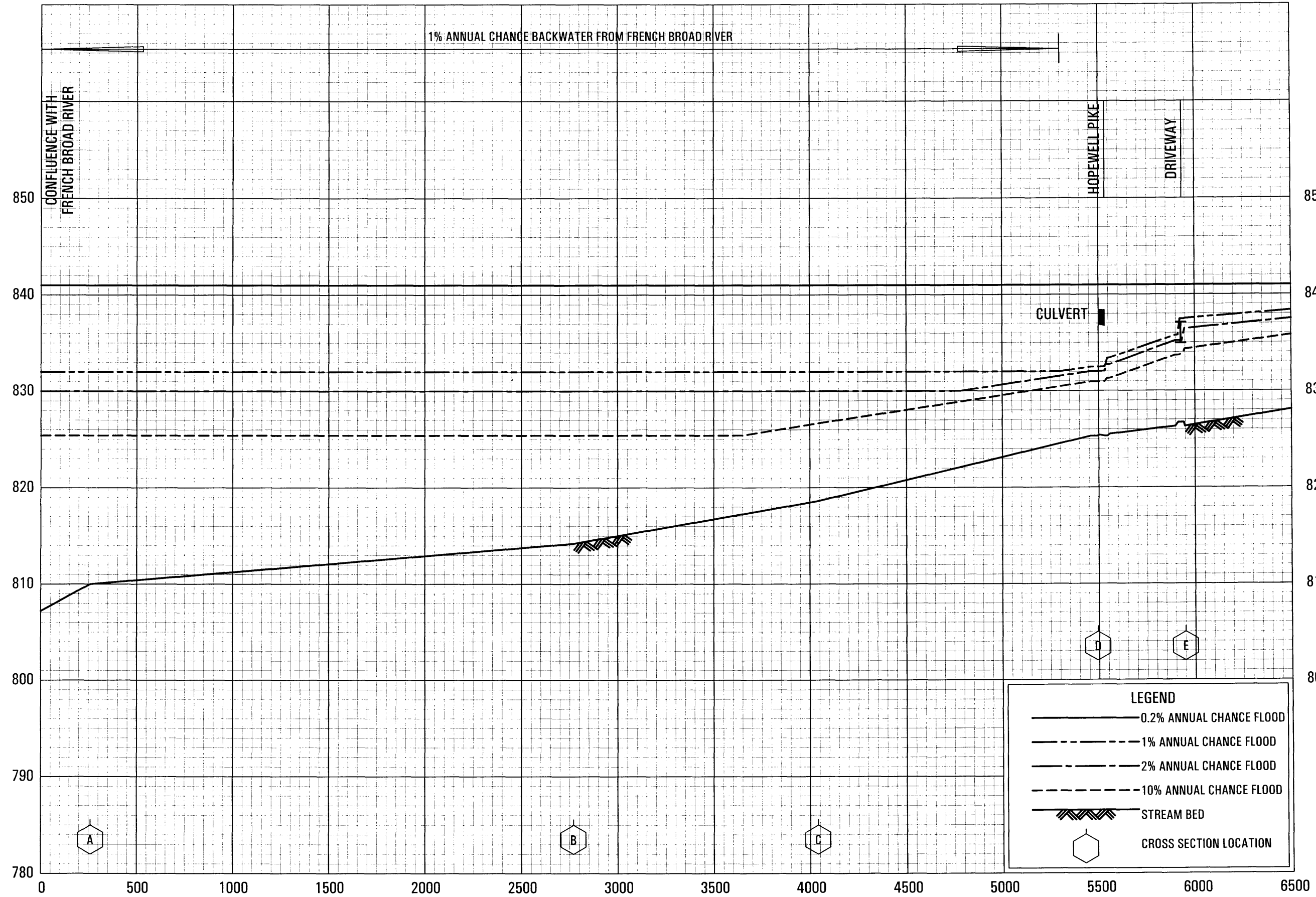
HINES BRANCH

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

71P

ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH FRENCH BROAD RIVER

FLOOD PROFILES

HINES CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)

870
860
850
840
830
820
810
800

6500 7000 7500 8000 8500 9000 9500 10000 10500 11000 11500 12000 12500 13000

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH FRENCH BROAD RIVER

DRIVEWAY

KIMBERLIN HEIGHTS ROAD

DEADERICK ROAD

LEGEND

0.2% ANNUAL CHANCE FLOOD

1% ANNUAL CHANCE FLOOD

2% ANNUAL CHANCE FLOOD

10% ANNUAL CHANCE FLOOD

STREAM BED

CROSS SECTION LOCATION

FLOOD PROFILES

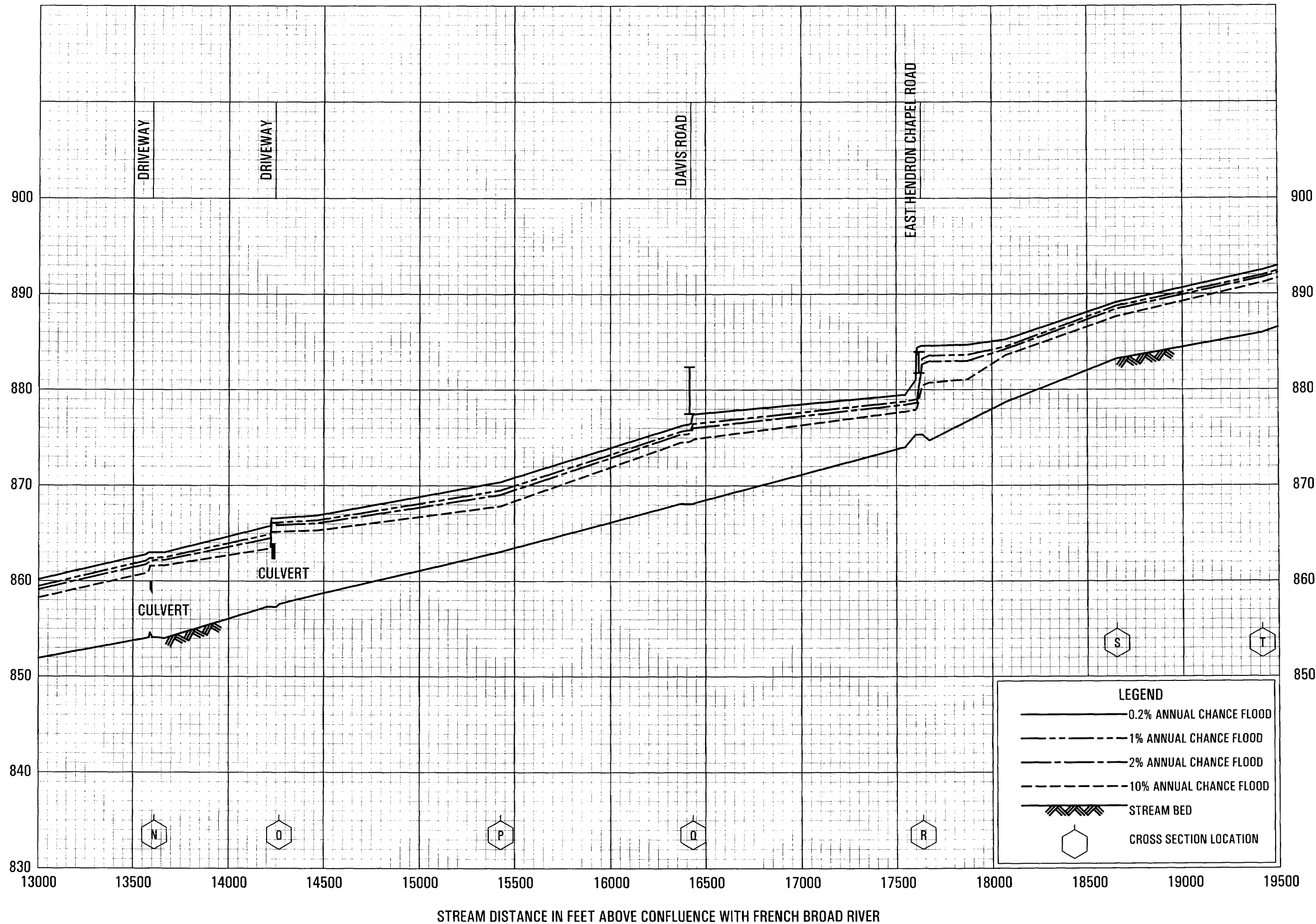
HINES CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

73P

ELEVATION IN FEET (NAVD 88)



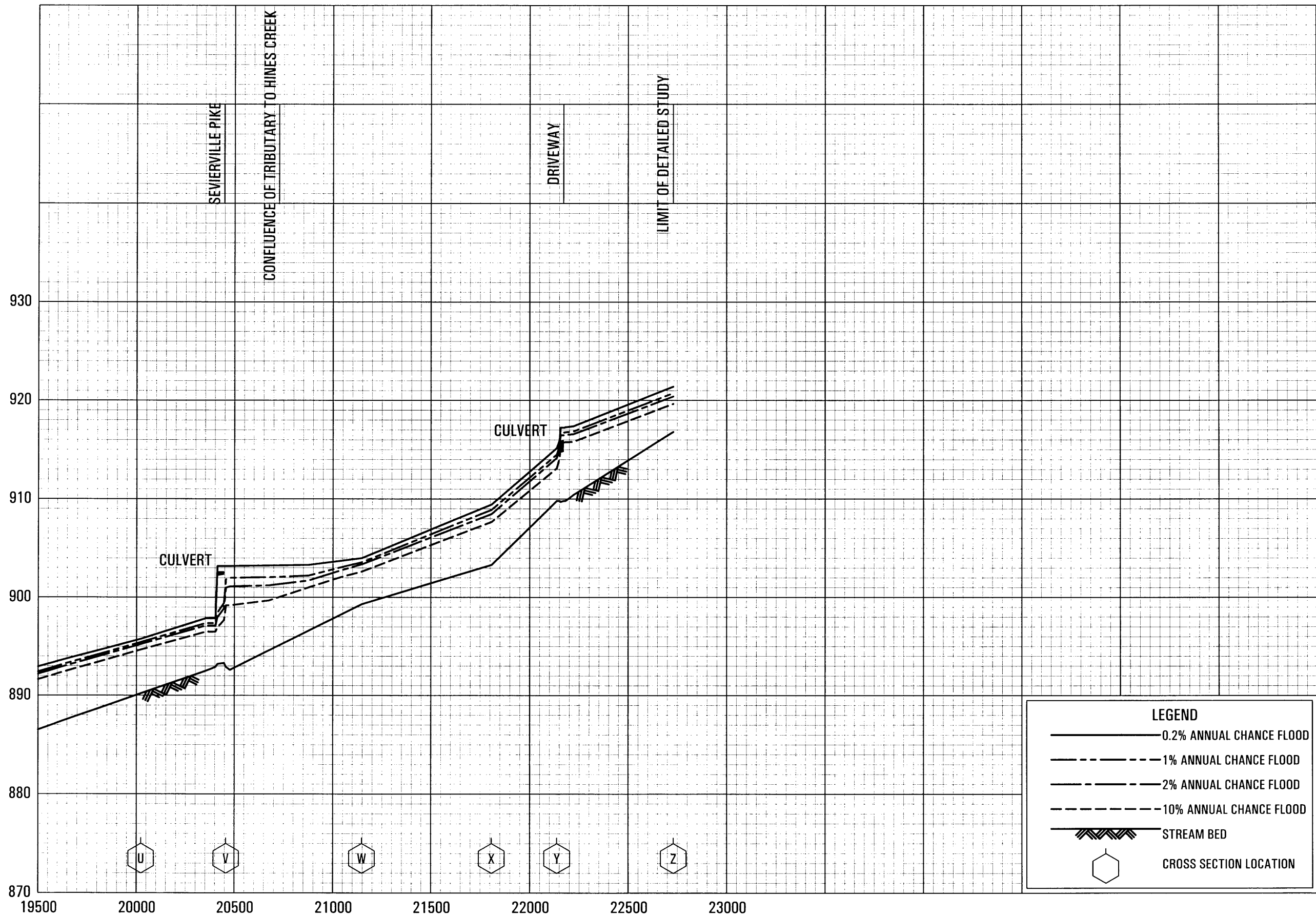
FLOOD PROFILES

HINES CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS

ELEVATION IN FEET (NAVD 88)



STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH FRENCH BROAD RIVER

FLOOD PROFILES

HINES CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

KNOX COUNTY, TN
AND INCORPORATED AREAS