

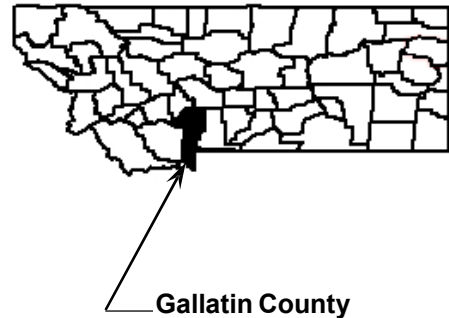
# FLOOD INSURANCE STUDY



## GALLATIN COUNTY, MONTANA AND INCORPORATED AREAS VOLUME 2 OF 4

Community Name	Community Number
* BELGRADE, CITY OF	300105
BOZEMAN, CITY OF	300028
GALLATIN COUNTY UNINCORPORATED AREAS	300027
* MANHATTAN, TOWN OF	300034
THREE FORKS, CITY OF	300029
* WEST YELLOWSTONE, TOWN OF	300135

\* NON-FLOOD PRONE COMMUNITY



REVISED  
APRIL 21, 2021

Reprinted with corrections on November 5, 2021



**Federal Emergency Management Agency**  
Flood Insurance Study Number  
30031CV002B

NOTICE TO  
FLOOD INSURANCE STUDY USERS

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

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

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

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

Initial Countywide FIS effective date: September 2, 2011

Revised FIS Dates: April 21, 2021

This FIS report was reissued on November 5, 2021 to make a correction; this version replaces any previous versions. See the Notice-to-User Letter that accompanied this correction for details.

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FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	45	55	22	3.6	4,839.5	4,839.5	4,839.5	0.0
B	279	112	98	0.8	4,840.5	4,840.5	4,840.5	0.0

<sup>1</sup> Feet above confluence with Mill Ditch Diversion

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b>	<b>FLOODWAY DATA</b>
	<b>GALLATIN COUNTY, MT AND INCORPORATED AREAS</b>	

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	1,117	106	62	3.5	4,867.1	4,867.1	4,867.1	0.0
B	1,459	126	90	3.1	4,868.9	4,868.9	4,868.9	0.0

<sup>1</sup>Feet above confluence with Rouse Avenue Split

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b> <b>GALLATIN COUNTY, MT</b> <b>AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>GARFIELD STREET SPLIT</b>



FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	356	165	146	2.3	4,911.8	4,911.8	4,911.8	0.0
B	755	323 <sup>2</sup>	228	1.7	4,912.9	4,912.9	4,912.9	0.0
C	1,266	275 <sup>2</sup>	62	3.7	4,916.3	4,916.3	4,916.3	0.0
D	1,654	172	77	2.3	4,921.1	4,921.1	4,921.1	0.0

<sup>1</sup> Feet above confluence with Flat Creek

<sup>2</sup> Floodway top-width includes width of high ground

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b>	<b>FLOODWAY DATA</b>
	<b>GALLATIN COUNTY, MT</b>	
	<b>AND INCORPORATED AREAS</b>	<b>GOLF COURSE SPLIT</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,033	110	82	4.2	4,747.1	4,747.3	4,747.1	0.2
B	2,333	59	56	5.6	4,752.2	4,752.4	4,752.2	0.2
C	2,782	118	76	1.5	4,755.8	4,755.8	4,755.8	0.0

<sup>1</sup> Feet above confluence with East Gallatin River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**GALLATIN COUNTY, MT  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**I-90 SPLIT**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Ice Pond Split								
A	125	95	147	5.4	4,847.9	4,847.9	4,848.1	0.2
B	244	99	124	3.7	4,850.2	4,850.2	4,850.7	0.5
C	479	169	85	3.1	4,853.4	4,853.4	4,853.6	0.2

<sup>1</sup> Stream distance in feet from confluence with Bozeman Creek

**TABLE 8**

**FEDERAL EMERGENCY MANAGEMENT AGENCY  
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ICE POND SPLIT**

FLOODING SOURCE		FLOODWAY			1-PERCENT ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
Jefferson River								
AJ	20,848	3,306	12,586	1.8	4,062.7	4,062.7	4,063.1	0.4
BJ	20,982	2,984	10,503	2.2	4,062.8	4,062.8	4,063.2	0.4
CJ	21,211	2,495	7,475	3.1	4,063.1	4,063.1	4,063.5	0.4
DJ	21,468	2,120	8,868	2.6	4,064.9	4,064.9	4,064.9	0.0
EJ	23,315	1,904	9,289	2.5	4,065.6	4,065.6	4,065.8	0.2
FJ	24,063	451	8,715	7.0	4,066.1	4,066.1	4,066.4	0.3
GJ	24,430	773	10,540	5.1	4,067.1	4,067.1	4,067.5	0.4
HJ	25,238	3,173	10,491	2.2	4,068.4	4,068.4	4,068.7	0.3
IJ	26,635	5,391	19,241	1.2	4,069.2	4,069.2	4,069.6	0.4
JJ	29,625	5,328	12,367	1.9	4,071.1	4,071.1	4,071.5	0.4
KJ	30,957	4,034	8,555	2.7	4,072.8	4,072.8	4,073.2	0.4
LJ	32,260	5,855	13,426	1.7	4,074.1	4,074.1	4,074.4	0.3
MJ	33,222	5,692	8,704	2.7	4,075.7	4,075.7	4,075.8	0.1
NJ	34,373	4,901	11,823	2.0	4,077.7	4,077.7	4,078.0	0.3
OJ	34,895	5,454	10,145	2.3	4,078.6	4,078.6	4,078.9	0.3
PJ	35,664	5,472	11,488	2.0	4,079.8	4,079.8	4,080.1	0.3
QJ	37,132	5,871	10,625	2.1	4,081.7	4,081.7	4,082.1	0.4
RJ	38,263	5,212	8,491	2.6	4,083.7	4,083.7	4,084.1	0.4
SJ	39,736	3,997	8,984	2.4	4,085.4	4,085.4	4,085.8	0.4
TJ	40,889	881	2,963	7.1	4,087.6	4,087.6	4,087.9	0.3
UJ	41,856	239	2,493	8.5	4,089.4	4,089.4	4,089.5	0.1
VJ	42,101	261	2,867	8.2	4,090.6	4,090.6	4,090.6	0.0

<sup>1</sup>Feet above confluence with Madison River  
<sup>2</sup>Includes widths outside of county limits

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY GALLATIN COUNTY, MT AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>JEFFERSON RIVER</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET )			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	404	33	13	3.6	4,897.0	4,897.0	4,897.0	0.0
B	723	31	27	1.7	4,903.2	4,903.2	4,903.2	0.0
C	1,066	247 <sup>2</sup>	46	1.0	4,907.0	4,907.0	4,907.0	0.0

<sup>1</sup> Feet above confluence with Bozeman Creek

<sup>2</sup> Floodway topwidth includes width of high ground area

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b> <b>GALLATIN COUNTY, MT</b> <b>AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>KAGY/ROUSE SPLIT</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	59	74	139	0.1	4,858.6	4,858.6	4,858.9	0.3
B	541	39	28	0.4	4,858.6	4,858.6	4,858.9	0.3
C	1,266	110	13	3.0	4,867.0	4,867.0	4,867.0	0.0

<sup>1</sup>Feet above confluence with Rouse Avenue Split

<sup>2</sup>Floodway not computed for this cross section

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b> <b>GALLATIN COUNTY, MT</b> <b>AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>LOWER BLACK AVENUE SPLIT</b>

FLOODING SOURCE		FLOODWAY			1-PERCENT ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
Madison River								
AM	13,668	2,430	4,039	2.5	4,058.7	4,055.4	4,055.7	0.3
BM	14,792	2,759	6,247	1.6	4,060.0	4,057.0	4,057.2	0.2
CM	16,027	1,870	4,345	2.3	4,062.7	4,059.3	4,059.8	0.4
DM	17,089	620	1,664	7.6	4,066.4	4,062.1	4,062.3	0.3
EM	17,322	540	3,399	3.8	4,067.6	4,064.3	4,064.8	0.4
FM	17,779	445	2,314	4.4	4,067.6	4,064.8	4,065.1	0.3
GM	17,940	360	1,552	9.4	4,067.7	4,064.6	4,065.0	0.3
HM	18,056	390	3,703	4.0	4,070.0	4,069.4	4,069.4	0.0
IM	18,259	235	2,146	4.7	4,070.3	4,069.4	4,069.8	0.3
JM	18,318	258	2,687	3.8	4,070.9	4,069.6	4,069.9	0.3
KM	18,680	910	7,440	1.4	4,072.1	4,069.9	4,070.2	0.3
LM	19,171	1,770	10,969	0.9	4,072.4	4,069.9	4,070.2	0.3
MM	20,054	1,050	4,365	2.3	4,073.0	4,070.1	4,070.5	0.4
NM	20,981	930	3,007	3.4	4,073.3	4,071.7	4,072.0	0.3
OM	21,659	861	2,839	3.6	4,077.3	4,073.8	4,074.1	0.3
PM	22,723	570	2,173	4.7	4,079.7	4,076.3	4,076.7	0.4
QM	24,115	1,302	4,672	2.2	4,081.8	4,078.9	4,079.4	0.5
RM	24,781	1,441	4,417	2.3	4,083.5	4,080.1	4,080.5	0.3

<sup>1</sup> Feet above confluence with Jefferson River

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**GALLATIN COUNTY, MT**  
AND INCORPORATED AREAS

**FLOODWAY DATA**

**MADISON RIVER**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	88	83	55	1.3	4811.5	4,811.5	4,811.5	0.0
B	237	76	27	2.6	4,811.5	4,811.5	4,811.5	0.0
C	382	93	38	1.9	4,811.9	4,811.9	4,811.9	0.0

<sup>1</sup>Feet above confluence with Church Avenue Split

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**GALLATIN COUNTY, MT  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**MAIN STREET SPLIT**



FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	245	20	42	6.1	4,846.2	4,846.2	4,846.2	0.0
B	748	35	64	4.0	4,849.3	4,849.3	4,849.5	0.2
C	1,006	25	63	4.1	4,850.6	4,850.6	4,850.9	0.3
D	1,154	24	55	4.7	4,852.9	4,852.9	4,853.2	0.3
E	1,427	17	41	6.2	4,855.3	4,855.3	4,855.7	0.4
F	1,689	31	77	3.3	4,858.0	4,858.0	4,858.2	0.2
G	2,220	52	98	1.9	4,863.8	4,863.8	4,863.8	0.0
H	2,450	99	360	1.2	4,870.7	4,870.7	4,870.7	0.0
I	2,789	35	113	3.9	4,870.8	4,870.8	4,870.9	0.1
J	3,109	24	63	7.0	4,872.9	4,872.9	4,872.9	0.0
K	3,508	28	81	5.5	4,877.2	4,877.2	4,877.2	0.0
L	4,057	209	158	2.9	4,885.5	4,885.5	4,885.5	0.0
M	4,616	48	105	4.2	4,887.9	4,887.9	4,888.0	0.1
N	5,050	51	88	10.8	4,893.7	4,893.7	4,893.7	0.0
O	5,414	70	117	7.3	4,897.2	4,897.2	4,897.6	0.4
P	5,884	29	55	5.5	4,902.1	4,902.1	4,902.6	0.5
Q	6,151	37	71	4.2	4,905.1	4,905.1	4,905.5	0.4
R	6,419	36	65	4.7	4,907.2	4,907.2	4,907.6	0.4
S	6,639	44	85	3.6	4,909.8	4,909.8	4,910.3	0.5
T	7,017	37	75	4.0	4,913.7	4,913.7	4,914.1	0.4
U	7,448	18	44	6.9	4,917.3	4,917.3	4,917.4	0.1

<sup>1</sup> Feet above confluence with Bozeman Creek

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b>	<b>FLOODWAY DATA</b>
	<b>GALLATIN COUNTY, MT</b> <b>AND INCORPORATED AREAS</b>	<b>MATHEW BIRD CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
V	7,918	107	145	3.6	4,924.2	4,924.2	4,924.2	0.0
W	8,422	135	181	1.7	4,927.9	4,927.9	4,928.3	0.4
X	8,835	67	68	4.5	4,931.4	4,931.4	4,931.7	0.3
Y	9,245	46	93	3.3	4,933.5	4,933.5	4,933.7	0.2
Z	9,834	57	98	3.1	4,936.5	4,936.5	4,936.8	0.3
AA	10,488	109	84	3.6	4,942.4	4,942.4	4,942.7	0.3
AB	11,080	59	109	2.7	4,949.3	4,949.3	4,949.8	0.5
AC	11,625	25	37	7.0	4,954.3	4,954.3	4,954.3	0.0
AD	11,952	45	96	2.7	4,958.5	4,958.5	4,958.9	0.4
AE	12,412	39	62	4.2	4,961.9	4,961.9	4,962.3	0.4
AF	12,924	42	81	3.2	4,968.3	4,968.3	4,968.7	0.4
AG	13,370	36	59	4.4	4,972.6	4,972.6	4,972.9	0.3
AH	13,851	90 <sup>2</sup>	111	2.3	4,977.9	4,977.9	4,978.4	0.5
AI	14,287	55 <sup>2</sup>	29	4.3	4,984.0	4,984.0	4,984.2	0.2
AJ	14,697	17	27	4.0	4,989.8	4,989.8	4,989.8	0.0
AK	15,481	27	32	5.4	5,000.3	5,000.3	5,000.3	0.0
AL	16,075	40	59	4.1	5,005.3	5,005.3	5,005.3	0.0
AM	16,362	27	59	4.1	5,011.4	5,011.4	5,011.6	0.2
AN	16,796	58	69	3.5	5,018.8	5,018.8	5,018.9	0.1
AO	17,289	56	52	4.6	5,025.4	5,025.4	5,025.4	0.0
AP	17,832	14	11	5.1	5,030.6	5,030.6	5,030.6	0.0

<sup>1</sup> Feet above confluence with Bozeman Creek

<sup>2</sup> Floodway topwidth includes width of high ground

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b>	<b>FLOODWAY DATA</b>
	<b>GALLATIN COUNTY, MT</b>	
	<b>AND INCORPORATED AREAS</b>	<b>MATHEW BIRD CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
AQ	18,341	21	48	1.2	5,043.9	5,043.9	5,044.2	0.3
AR	18,720	33	78	0.7	5,048.5	5,048.5	5,048.7	0.2
AS	19,298	28	29	6.3	5,055.7	5,055.7	5,055.7	0.0
AT	19,639	301	172	1.4	5,062.1	5,062.1	5,062.1	0.0
AU	20,006	22 <sup>2</sup>	14	5.3	5,066.1	5,066.1	5,066.1	0.0
AV	20,778	17	21	2.7	5,075.1	5,075.1	5,075.4	0.3

<sup>1</sup> Feet above confluence with Bozeman Creek

<sup>2</sup> Floodway topwidth includes width of high ground

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b>	<b>FLOODWAY DATA</b>
	<b>GALLATIN COUNTY, MT AND INCORPORATED AREAS</b>	<b>MATHEW BIRD CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	15	275	229	5.9	4750.0	4750.0	4750.0	0.0
B	282	342	1,505	0.8	4755.8	4755.8	4755.8	0.0
C	671	167	653	0.2	4,755.9	4,755.9	4,755.9	0.0
D	1,112	42	70	2.2	4,755.9	4,755.9	4,755.9	0.0
E	1,332	43	71	2.2	4,756.3	4,756.3	4,756.3	0.0
F	1,629	234	499	0.5	4,759.1	4,759.1	4,759.1	0.0
G	2,032	48	49	4.9	4,759.7	4,759.7	4,759.8	0.1
H	2,322	51	94	2.6	4,762.7	4,762.7	4,762.9	0.2
I	2,926	35	56	3.7	4,767.8	4,767.8	4,767.8	0.0
J	3,058	56	106	1.5	4,768.8	4,768.8	4,768.8	0.0
K	3,534	32	109	1.7	4,773.7	4,773.7	4,773.7	0.0
L	4,077	13	22	7.4	4,783.9	4,783.9	4,783.9	0.0
M	4,536	22	79	3.0	4,789.3	4,789.3	4,789.3	0.0
N	5,207	16	31	4.0	4,797.1	4,797.1	4,797.1	0.0
O	5,603	30	70	1.8	4,800.5	4,800.5	4,800.5	0.0
P	5,973	12	19	6.5	4,803.1	4,803.1	4,803.1	0.0
Q	6,497	23	51	2.4	4,809.1	4,809.1	4,809.1	0.0
R	6,915	10	20	6.0	4,814.1	4,814.1	4,814.2	0.1
S	8,158	16	21	5.7	4,830.1	4,830.1	4,830.1	0.0
T	8,461	27	46	2.7	4,833.4	4,833.4	4,833.4	0.0
U	8,938	56	84	1.5	4,838.1	4,838.1	4,838.1	0.0

<sup>1</sup>Feet above confluence with East Gallatin River

<sup>2</sup>Floodway topwidth influenced by East Gallatin River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**GALLATIN COUNTY, MT  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**MILL DITCH DIVERSION**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	189	136	25	2.0	4,922.4	4,922.4	4,922.4	0.0
B	610	21	14	3.6	4,929.1	4,929.1	4,929.1	0.0
C	1,069	58	22	2.3	4,934.0	4,934.0	4,934.0	0.0
D	1,561	27	21	2.4	4,938.9	4,938.9	4,938.9	0.0

<sup>1</sup> Feet above confluence with Figgins Creek

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b>  <b>GALLATIN COUNTY, MT</b>  <b>AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>MUSEUM SPLIT</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	161	137	114	2.0	5,152.6	5,152.6	5,152.8	0.2
B	934	52	65	3.4	5,163.1	5,163.1	5,163.5	0.4
C	1,417	651 <sup>2</sup>	968	0.2	5,169.9	5,169.9	5,169.9	0.0
D	1,882	545 <sup>2</sup>	41	6.4	5,173.2	5,173.2	5,173.2	0.0
E	2,373	440 <sup>2</sup>	196	2.6	5,179.2	5,179.2	5,179.2	0.0

<sup>1</sup> Feet above confluence with Bozeman Creek

<sup>2</sup> Floodway topwidth influenced by split from Bozeman Creek

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b> <b>GALLATIN COUNTY, MT</b> <b>AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>NASH ROAD SPLIT</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	90	13	25	4.6	4,911.1	4,910.7 <sup>5</sup>	4,910.7 <sup>5</sup>	0.0
B	334	9	16	7.6	4,913.2	4,913.2	4,913.2	0.0
C	441	14	36	3.5	4,914.3	4,914.3	4,914.4	0.1
D	624	32 <sup>2</sup>	39	8.1	4,915.3	4,915.3	4,915.3	0.0
E	669	89	99	1.4	4,917.0	4,917.0	4,917.0	0.0
F	891	97	128	2.1	4,917.8	4,917.8	4,917.8	0.0
G	1,054	115	78	3.5	4,919.5	4,919.5	4,919.5	0.0
H	1,267	118	132	2.5	4,921.0	4,921.0	4,921.0	0.0
I	1,591	181	185	2.7	4,924.4	4,924.4	4,924.4	0.0
J	2,200	377 <sup>3</sup>	238	2.1	4,928.3	4,928.3	4,928.4	0.1
K	2,288	278 <sup>6</sup>	221	2.3	4,928.6	4,928.6	4,928.7	0.1
L	2,513	152	236	2.1	4,932.1	4,932.1	4,932.4	0.3
M	2,642	141	179	2.8	4,932.4	4,932.4	4,932.6	0.2
N	2,843	67	93	5.3	4,934.4	4,934.4	4,934.5	0.1
O	3,110	159 <sup>3</sup>	185	2.7	4,935.8	4,935.8	4,936.3	0.5
P	3,392	153 <sup>3</sup>	169	2.9	4,939.1	4,939.1	4,939.5	0.4
Q	3,451	102 <sup>3</sup>	117	4.3	4,939.5	4,939.5	4,939.8	0.3
R	3,727	117	129	3.8	4,942.0	4,942.0	4,942.2	0.2
S	3,946	52	113	4.4	4,944.6	4,944.6	4,945.1	0.5
T	4,160	75	95	5.2	4,947.4	4,947.4	4,947.5	0.1
U	4,609	328 <sup>3</sup>	404	2.3	4,952.1	4,952.1	4,952.1	0.0

<sup>1</sup> Feet above confluence with Bozeman Creek

<sup>5</sup> Without consideration of backwater effects

<sup>2</sup> Floodway topwidth influenced by Golf Course Split

<sup>3</sup> Floodway topwidth includes width of high ground area

<sup>4</sup> Floodway topwidth influenced by split form Bozeman Creek

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b>	<b>FLOODWAY DATA</b>
	<b>GALLATIN COUNTY, MT</b>	
	<b>AND INCORPORATED AREAS</b>	<b>NASH SPRING CREEK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
V	4,996	22	36	6.3	4,955.2	4,955.3	4,955.3	0.0
W	5,544	65 <sup>2</sup>	49	4.6	4,963.7	4,963.7	4,963.7	0.0
X	5,905	23	38	5.9	4,967.4	4,967.4	4,967.4	0.0
Y	6,297	21	42	5.8	4,972.8	4,972.8	4,972.8	0.0
Z	6,660	32	77	2.9	4,976.0	4,976.0	4,976.3	0.3
AA	7,005	54 <sup>3</sup>	66	3.4	4,979.8	4,979.8	4,979.8	0.0
AB	7,266	56	75	3.0	4,982.0	4,982.0	4,982.2	0.2
AC	7,724	49	75	3.0	4,986.9	4,986.9	4,987.2	0.3
AD	8,626	30	58	3.9	4,994.0	4,994.0	4,994.3	0.3
AE	9,870	27	47	4.7	5,004.1	5,004.1	5,004.1	0.0
AF	10,392	21	52	4.3	5,011.7	5,011.7	5,012.1	0.4
AG	10,574	563 <sup>4</sup>	559	0.4	5,017.3	5,017.3	5,017.3	0.0
AH	11,411	25	55	3.7	5,024.7	5,024.7	5,024.7	0.0
AI	12,287	25	49	4.2	5,033.9	5,033.9	5,033.9	0.0
AJ	13,259	30	37	5.6	5,045.3	5,045.3	5,045.3	0.0
AK	14,089	47	101	2.0	5,055.0	5,055.0	5,055.0	0.0

<sup>1</sup> Feet above confluence with Bozeman Creek

<sup>2</sup> Floodway topwidth influenced by Golf Course Split

<sup>3</sup> Floodway topwidth includes width of high ground area

<sup>4</sup> Floodway topwidth influenced by split form Bozeman Creek

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b>	<b>FLOODWAY DATA</b>
	<b>GALLATIN COUNTY, MT</b>	
	<b>AND INCORPORATED AREAS</b>	<b>NASH SPRING CREEK</b>



FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	98	125	47	2.8	4,981.9	4,981.9	4,982.0	0.1
B	379	122	41	3.3	4,985.9	4,985.9	4,985.9	0.0
C	792	51	30	4.4	4,991.7	4,991.7	4,991.7	0.0
D	1,180	36	24	2.9	4,999.4	4,999.4	4,999.4	0.0

<sup>1</sup> Feet above confluence with Mathew Bird Creek

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b> <b>GALLATIN COUNTY, MT</b> <b>AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>RAIN ROPER SPLIT</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	245	53	51	5.6	4,802.5	4,802.5	4,802.8	0.3
B	417	64	54	5.2	4,805.0	4,805.0	4,805.3	0.3
C	563	60	53	5.4	4,808.5	4,808.5	4,808.6	0.1
D	713	53	50	5.6	4,811.8	4,811.8	4,811.9	0.1
E	983	66	64	5.5	4,813.4	4,813.4	4,813.6	0.2
F	1,182	64	62	5.7	4,815.3	4,815.3	4,815.3	0.0
G	1,242	65	63	5.7	4,816.1	4,816.1	4,816.1	0.0

<sup>1</sup>Feet above confluence with Bozeman Creek

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**GALLATIN COUNTY, MT  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ROUSE AVENUE DOWNTOWN**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	596	138	60	3.8	4,858.4	4,858.4	4,858.4	0.0
B	4,769	71	22	1.2	4,904.1	4,904.1	4,904.1	0.0

<sup>1</sup>Feet above confluence with Bozeman Creek

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b> <b>GALLATIN COUNTY, MT</b> <b>AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>ROUSE AVENUE SPLIT</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	157	35	52	6.6	4,954.8	4,954.8	4,955.0	0.2
B	629	180	493	0.7	4,955.4	4,955.4	4,955.8	0.4
C	1,165	170	85	4.1	4,965.4	4,965.4	4,965.4	0.0
D	1,765	217	137	2.5	4,971.2	4,971.2	4,971.2	0.0

<sup>1</sup> Feet above confluence with Nash Spring Creek

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b> <b>GALLATIN COUNTY, MT</b> <b>AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>SOURDOUGH TRAIL SPLIT</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD88)	WITHOUT FLOODWAY (NAVD88)	WITH FLOODWAY (NAVD88)	INCREASE (FEET)
A	572	60	35	4.3	4,890.9	4,890.9	4,890.9	0.0
B	840	61	35	4.3	4,897.8	4,897.8	4,897.8	0.0

<sup>1</sup>Feet above confluence with Mathew Bird Creek

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b> <b>GALLATIN COUNTY, MT</b> <b>AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>TRACY AVENUE SPLIT</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD 88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	4,519	82	25	1.8	4810.3	4,810.3	4,810.3	0.0
B	4,631	94	33	3.4	4810.6	4,810.6	4,810.6	0.0
C	4,799	108	54	2.1	4,811.1	4,811.1	4,811.1	0.0

<sup>1</sup>Feet above confluence with Bozeman Creek

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**GALLATIN COUNTY, MT  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**WALLACE AVENUE SPLIT**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION ( FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
WEST GALLATIN RIVER								
A	386	895 <sup>2</sup>	2860	3.6	4163.1	4163.1	4163.2	0.1
B	1,806	800	2021	5.1	4166.9	4166.9	4167.4	0.5
C	3,583	871 <sup>2</sup>	2095	4.9	4174.4	4174.4	4174.7	0.3
D	5,474	840 <sup>2</sup>	2034	5.0	4180.3	4180.3	4180.6	0.3
E	7,427	632 <sup>2</sup>	1448	7.1	4187.3	4187.3	4187.5	0.2
F	8,999	779	2316	4.4	4193.4	4193.4	4193.5	0.1
G	10,924	1100	3063	3.3	4197.4	4197.4	4197.8	0.4
H	12,610	1146 <sup>2</sup>	2502	4.1	4203.1	4203.1	4203.4	0.3
I	14,595	1036 <sup>2</sup>	1793	5.7	4208.6	4208.6	4209.0	0.4
J	16,226	2168 <sup>2</sup>	2920	3.5	4214.9	4214.9	4215.3	0.4
K	18,192	3007 <sup>2</sup>	3109	3.3	4221.9	4221.9	4221.9	0.0
L	19,735	3961 <sup>2</sup>	4695	2.2	4224.8	4224.8	4225.1	0.3
M	21,689	2802 <sup>2</sup>	3593	2.9	4233.2	4233.2	4233.7	0.5
N	23,578	1151 <sup>2</sup>	1496	6.0	4241.4	4241.4	4241.8	0.4
O	25,158	985 <sup>2</sup>	2075	4.5	4248.5	4248.5	4248.9	0.4
P	26,546	825 <sup>2</sup>	2348	4.0	4252.4	4252.4	4252.7	0.3
Q	28,027	904 <sup>2</sup>	2425	3.9	4257.6	4257.6	4257.9	0.3
R	29,418	1362 <sup>2</sup>	2035	4.7	4263.3	4263.3	4263.6	0.3
S	31,197	1180 <sup>2</sup>	2237	4.3	4271.2	4271.2	4271.4	0.2
T	32,692	1054	1902	5.0	4278.0	4278.0	4278.4	0.4
U	34,255	880	2160	4.4	4284.4	4284.4	4284.6	0.2
V	35,735	1219 <sup>2</sup>	2328	4.1	4290.1	4290.1	4290.4	0.3

<sup>1</sup>Feet above confluence with Gallatin River  
<sup>2</sup>Floodway topwidth includes width of high ground area

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY GALLATIN COUNTY, MT AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>WEST GALLATIN RIVER</b>

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION ( FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
WEST GALLATIN RIVER								
W	37,269	1113 <sup>2</sup>	2890	3.3	4296.8	4296.8	4297.3	0.5
X	39,078	797	2875	3.4	4306.4	4306.4	4306.4	0.0
Y	41,046	619 <sup>2</sup>	1511	6.5	4314.1	4314.1	4314.4	0.3
Z	42,840	1415	3552	2.8	4322.2	4322.2	4322.6	0.4
AA	44,544	1532 <sup>2</sup>	2084	4.7	4330.0	4330.0	4330.2	0.2
AB	46,521	1493 <sup>2</sup>	2435	4.0	4341.6	4341.6	4342.0	0.4
AC	48,420	998 <sup>2</sup>	1952	5.0	4350.9	4350.9	4351.3	0.4
AD	50,306	1045 <sup>2</sup>	2140	4.6	4361.5	4361.5	4361.7	0.2
AF	53,311	789 <sup>2</sup>	1800	5.4	4379.0	4379.0	4379.3	0.3
AG	54,714	821 <sup>2</sup>	1693	5.8	4387.6	4387.6	4388.0	0.4
AH	56,690	925	2353	4.2	4398.6	4398.6	4398.7	0.1
AI	58,576	802 <sup>2</sup>	1465	6.7	4410.3	4410.3	4410.5	0.2
AJ	60,169	749 <sup>2</sup>	1689	5.8	4417.2	4417.2	4417.6	0.4
AK	61,822	762	2695	3.6	4426.3	4426.3	4426.8	0.5
AL	63,676	1257 <sup>2</sup>	1923	5.1	4436.0	4436.0	4436.1	0.1
AM	65,418	726 <sup>2</sup>	1638	6.0	4447.6	4447.6	4447.8	0.2
AN	66,941	980 <sup>2</sup>	1346	7.3	4456.9	4456.9	4457.2	0.3
AO	68,881	1466 <sup>2</sup>	2096	4.7	4470.5	4470.5	4470.8	0.3
AP	70,411	1411 <sup>2</sup>	2205	4.5	4478.7	4478.7	4479.1	0.4
AQ	72,407	770	1701	5.8	4491.8	4491.8	4492.0	0.2
AR	73,955	769 <sup>2</sup>	1968	5.0	4499.9	4499.9	4500.0	0.1
AS	75,810	328	1445	6.8	4510.7	4510.7	4510.7	0.0

<sup>1</sup>Feet above confluence with Gallatin River

<sup>2</sup>Floodway topwidth includes width of high ground area

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY</b>	<b>FLOODWAY DATA</b>
	<b>GALLATIN COUNTY, MT</b>	
	<b>AND INCORPORATED AREAS</b>	<b>WEST GALLATIN RIVER</b>



LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION ( FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
WEST GALLATIN RIVER								
AT	77,398	804 <sup>2</sup>	2224	4.5	4520.2	4520.2	4520.4	0.2
AU	79,311	1020 <sup>2</sup>	2858	3.6	4532.2	4532.2	4532.5	0.3
AV	80,749	645 <sup>2</sup>	1434	7.2	4540.4	4540.4	4540.8	0.4
AW	81,668	744 <sup>2</sup>	1905	5.4	4546.2	4546.2	4546.3	0.1
AX	83,465	1402 <sup>2</sup>	2726	3.8	4556.1	4556.1	4556.3	0.2
AY	85,371	1267 <sup>2</sup>	2166	4.7	4568.0	4568.0	4568.2	0.2
AZ	86,918	1953 <sup>2</sup>	3130	3.3	4575.2	4575.2	4575.3	0.1
BA	88,554	1104 <sup>2</sup>	1851	5.6	4584.5	4584.5	4584.8	0.3
BB	90,470	782 <sup>2</sup>	1832	5.6	4596.6	4596.6	4596.6	0.0
BC	91,967	847 <sup>2</sup>	1627	6.3	4606.0	4606.0	4606.3	0.3
BD	93,515	1586 <sup>2</sup>	3325	3.1	4614.3	4614.3	4614.8	0.5
BE	95,229	914 <sup>2</sup>	1989	5.2	4624.4	4624.4	4624.6	0.2
BF	96,833	971 <sup>2</sup>	1912	5.4	4634.2	4634.2	4634.7	0.5
BG	98,375	1161 <sup>2</sup>	2438	4.2	4644.0	4644.0	4644.5	0.5
BH	100,132	1092 <sup>2</sup>	1920	5.4	4654.0	4654.0	4654.3	0.3
BI	101,481	1293	3555	2.9	4660.1	4660.1	4660.6	0.5
BJ	102,907	1356 <sup>2</sup>	3063	3.4	4668.9	4668.9	4669.3	0.4
BK	104,428	1113 <sup>2</sup>	2984	3.4	4679.1	4679.1	4679.6	0.5
BL	105,986	827 <sup>2</sup>	1663	6.0	4688.8	4688.8	4688.9	0.1
BM	107,608	346	1482	6.7	4699.0	4699.0	4699.3	0.3
BN	109,498	789 <sup>2</sup>	1779	5.8	4710.3	4710.3	4710.5	0.2
BO	110,991	605 <sup>2</sup>	1622	6.3	4719.1	4719.1	4719.4	0.3

<sup>1</sup>Feet above confluence with Gallatin River  
<sup>2</sup>Floodway topwidth includes width of high ground area

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY GALLATIN COUNTY, MT AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>WEST GALLATIN RIVER</b>

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION ( FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
WEST GALLATIN RIVER								
BP	112,560	481 <sup>2</sup>	1244	8.3	4728.4	4728.4	4728.5	0.1
BQ	114,490	1325 <sup>2</sup>	1615	6.4	4739.3	4739.3	4739.6	0.3
BR	116,442	779 <sup>2</sup>	1865	5.5	4751.8	4751.8	4752.2	0.4
BS	118,003	773 <sup>2</sup>	1736	5.9	4760.2	4760.2	4760.7	0.5
BT	119,971	744 <sup>2</sup>	1458	7.0	4772.1	4772.1	4772.1	0.0
BU	121,486	515 <sup>2</sup>	1511	6.8	4781.9	4781.9	4781.9	0.0
BV	122,958	440	1381	7.4	4790.5	4790.5	4790.6	0.1
BW	124,493	1154 <sup>2</sup>	2238	4.6	4799.9	4799.9	4800.2	0.3
BX	126,170	1425 <sup>2</sup>	2039	5.0	4810.5	4810.5	4810.9	0.4
BY	127,650	815 <sup>2</sup>	1589	6.5	4820.5	4820.5	4820.6	0.1
BZ	129,374	651 <sup>2</sup>	1587	6.5	4831.3	4831.3	4831.5	0.2
CA	131,189	754 <sup>2</sup>	1717	6.0	4842.5	4842.5	4843.0	0.5
CB	132,819	597 <sup>2</sup>	1435	7.2	4853.4	4853.4	4853.8	0.4
CC	134,444	590 <sup>2</sup>	1498	6.9	4863.9	4863.9	4864.0	0.1
CD	136,275	734 <sup>2</sup>	2254	4.6	4875.5	4875.5	4875.9	0.4
CE	137,811	225 <sup>2</sup>	1117	9.2	4885.1	4885.1	4885.1	0.0
CF	138,953	1226 <sup>2</sup>	2054	5.0	4893.7	4893.7	4893.8	0.1
CG	140,525	1330 <sup>2</sup>	3114	3.3	4905.0	4905.0	4905.2	0.2
CH	142,333	1982 <sup>2</sup>	2500	4.1	4918.3	4918.3	4918.3	0.0
CI	144,328	1751 <sup>2</sup>	2233	4.6	4929.4	4929.4	4929.8	0.4
CJ	145,975	1396 <sup>2</sup>	1861	5.5	4939.4	4939.4	4939.9	0.5
CK	147,922	1030 <sup>2</sup>	1202	8.5	4953.1	4953.1	4953.2	0.1

<sup>1</sup>Feet above confluence with Gallatin River  
<sup>2</sup>Floodway topwidth includes width of high ground area

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY GALLATIN COUNTY, MT AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>WEST GALLATIN RIVER</b>

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION ( FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
WEST GALLATIN RIVER								
CL	149,498	1192 <sup>2</sup>	1882	5.5	4962.8	4962.8	4963.3	0.5
CM	151,381	1419 <sup>2</sup>	2057	5.0	4975.7	4975.7	4976.2	0.5
CN	153,339	714 <sup>2</sup>	1511	6.8	4987.5	4987.5	4987.7	0.2
CO	155,314	378 <sup>2</sup>	1388	7.4	5001.0	5001.0	5001.1	0.1
CP	157,250	729 <sup>2</sup>	1344	7.6	5013.8	5013.8	5014.0	0.2
CQ	159,075	324	1325	7.8	5025.1	5025.1	5025.4	0.3
CR	160,959	445	2125	4.8	5037.3	5037.3	5037.7	0.4
CS	163,181	200 <sup>2</sup>	1134	9.1	5049.3	5049.3	5049.7	0.4

<sup>1</sup>Feet above confluence with Gallatin River  
<sup>2</sup>Floodway topwidth includes width of high ground area

<b>TABLE 8</b>	<b>FEDERAL EMERGENCY MANAGEMENT AGENCY GALLATIN COUNTY, MT AND INCORPORATED AREAS</b>	<b>FLOODWAY DATA</b>
		<b>WEST GALLATIN RIVER</b>

## **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 rate zone that corresponds to the 1-percent-annual-chance floodplains that are determined in the FIS report by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no BFEs or depths are shown within this zone.

### **Zone AE**

Zone AE is the flood insurance rate zone that corresponds to the 1 percent annual chance floodplains that are determined in the FIS report by detailed methods. 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 rate 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 (sq. mi.), and areas protected from the base flood by levees. No BFEs or 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 rate 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 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 for the entire geographic area of Gallatin County. Previously, FIRMs were prepared for each incorporated community and the unincorporated areas of the county identified as flood-prone. These countywide FIRMs also include flood-hazard information that was presented separately on Flood Boundary and Floodway Maps (FBFMs), where applicable. Historical data relating to the maps prepared for each community are presented in Table 8, “Community Map History.”

## **7.0 OTHER STUDIES**

This FIS report either supersedes or is compatible with all previous studies published on streams studied in this report 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 Natural and Technological Hazards Division, FEMA, Denver Federal Center, Building 710, Box 25267, Denver, Colorado 80225-0267.

COMMUNITY NAME	INITIAL IDENTIFICATION	FLOOD HAZARD BOUNDARY MAP REVISION DATE	FIRM EFFECTIVE DATE	FIRM REVISION DATE
Belgrade, City of * <sup>1</sup>	None	None	None	None
Bozeman, City of	February 15, 1974	February 13, 1976	March 15, 1982	July 15, 1988 April 21, 2021
Gallatin, County (Unincorporated Area)	May 16, 1978	None	August 1, 1984	April 21, 2021
Manhattan, Town of * <sup>1</sup>	None	None	None	April 21, 2021
Three Forks, City of	March 29, 1974	September 26, 1975	November 19, 1980	None
West Yellowstone, Town of * <sup>1</sup>	None	None	None	None

\*No Special Flood Hazard Areas

<sup>1</sup>This community did not have maps prior to first time countywide for Gallatin County

**TABLE 9**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**GALLATIN COUNTY, MT  
AND INCORPORATED AREAS**

**COMMUNITY MAP HISTORY**

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

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

Table 10. Map Repositories

Community	Address	City	State	Zip Code
Gallatin County	Gallatin County Courthouse, Planning Department 311 West Main Street, Room 108	Bozeman	Montana	59715
Town of Manhattan	Town Hall, 207 South 6th Street	Manhattan	Montana	59741
City of Three Forks	City Hall, 206 Main Street	Three Forks	Montana	59752
City of Belgrade	City Hall, 91 East Central Avenue	Belgrade	Montana	59714
City of Bozeman	Stiff Professional Building, Engineering Department, 20 East Olive Street, 1 <sup>st</sup> Floor	Bozeman	Montana	59715
Town of West Yellowstone	Town Hall, 10 South Faithful	West Yellowstone	Montana	59758

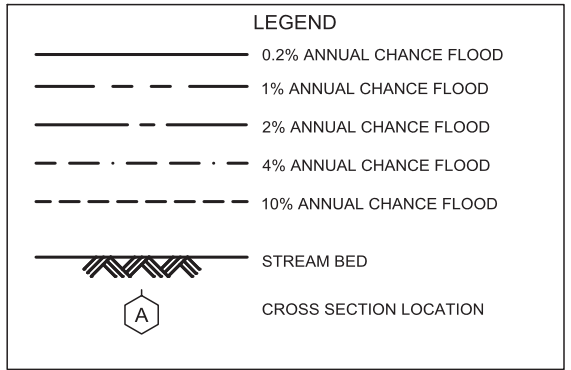
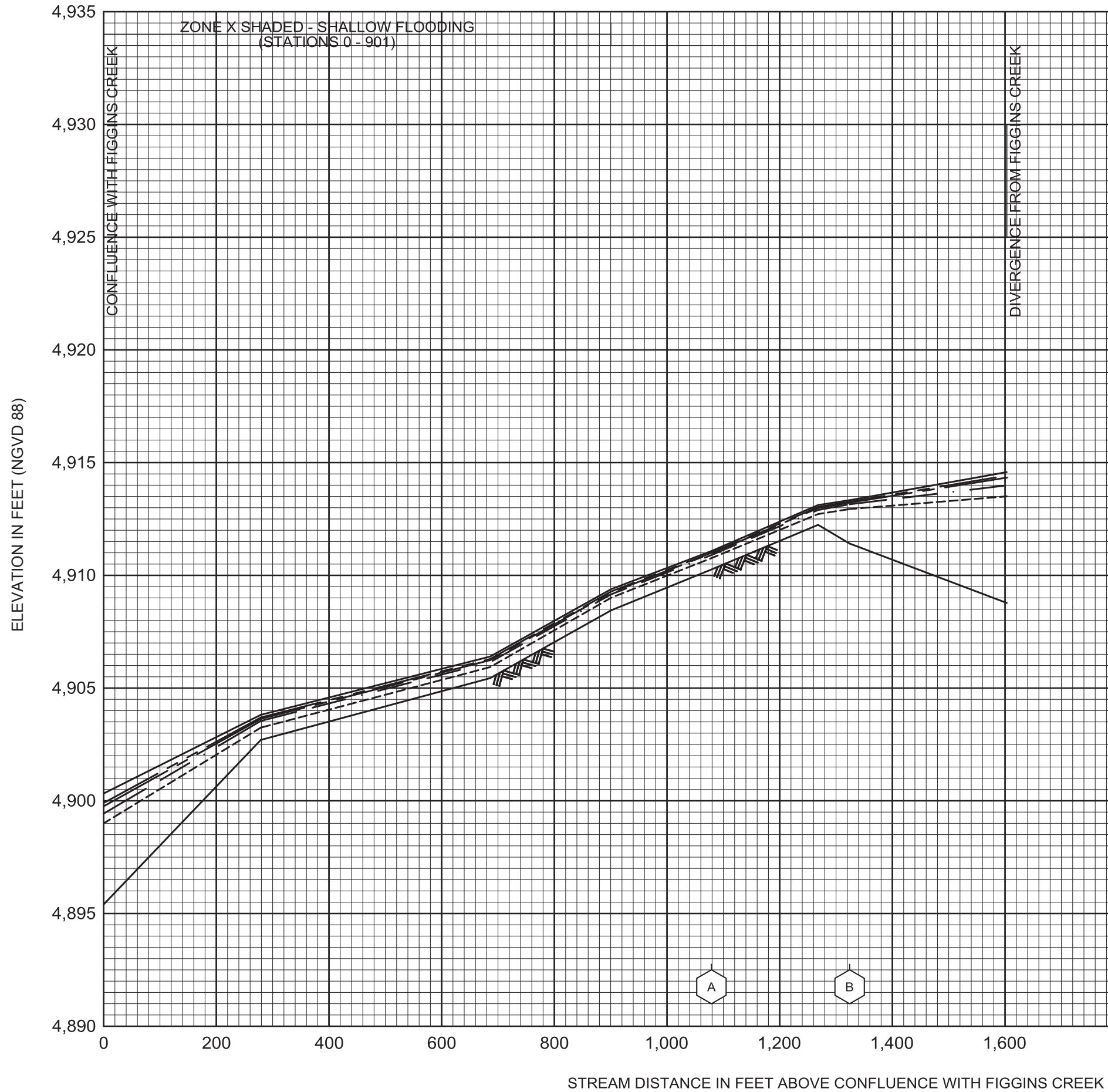
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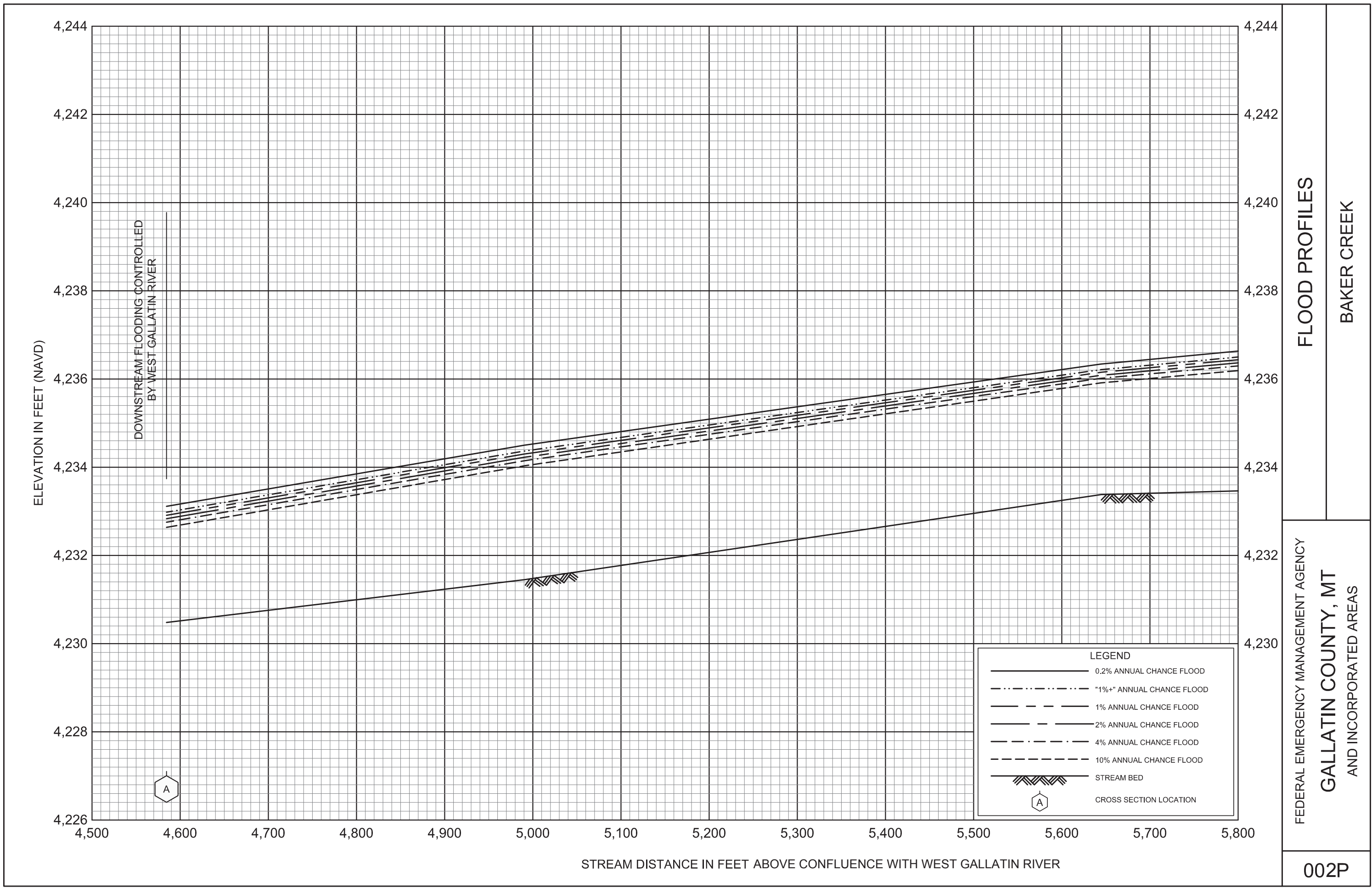
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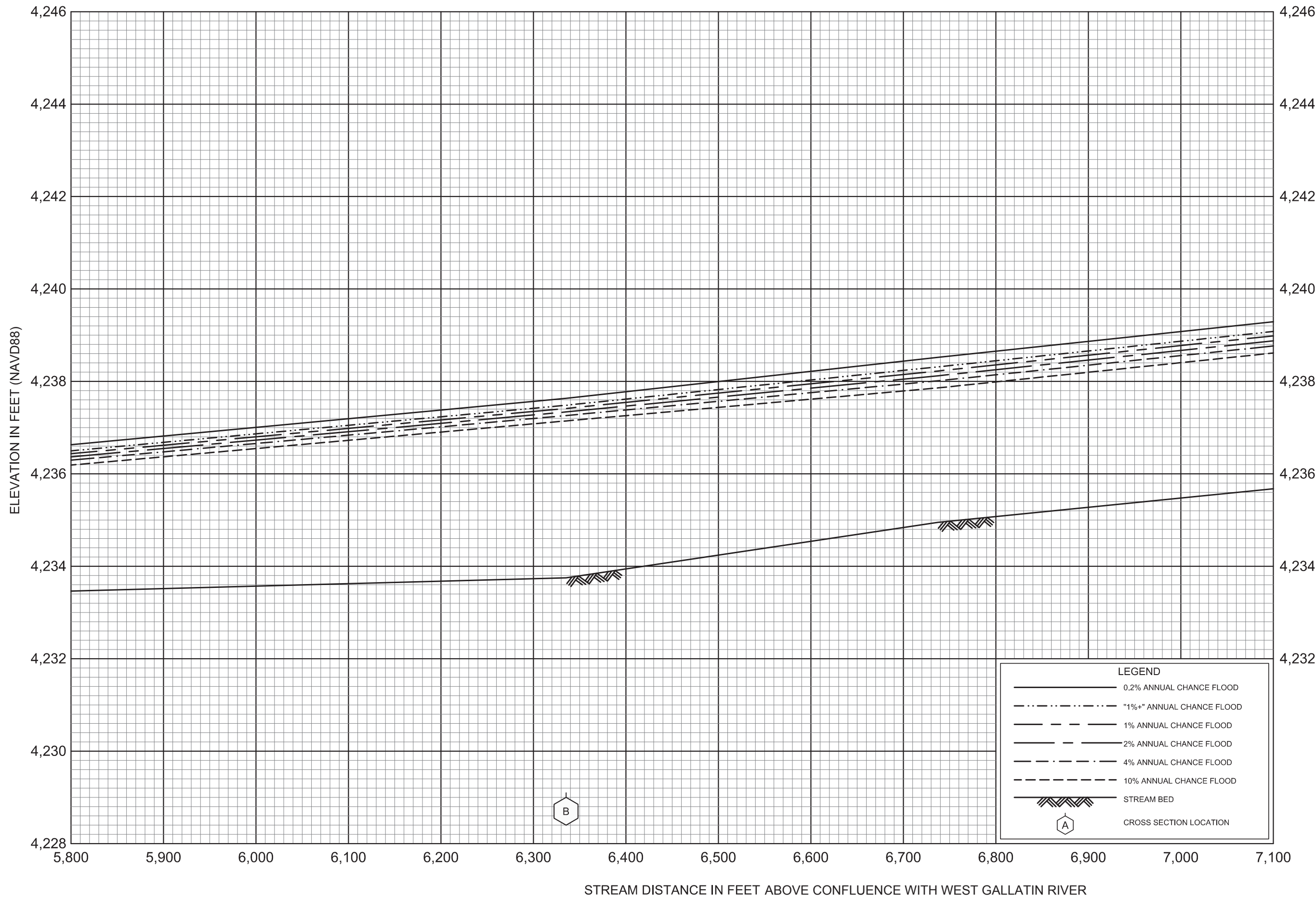


FLOOD PROFILES

3RD AVENUE - KAGY BOULEVARD SPLIT

FEDERAL EMERGENCY MANAGEMENT AGENCY  
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS





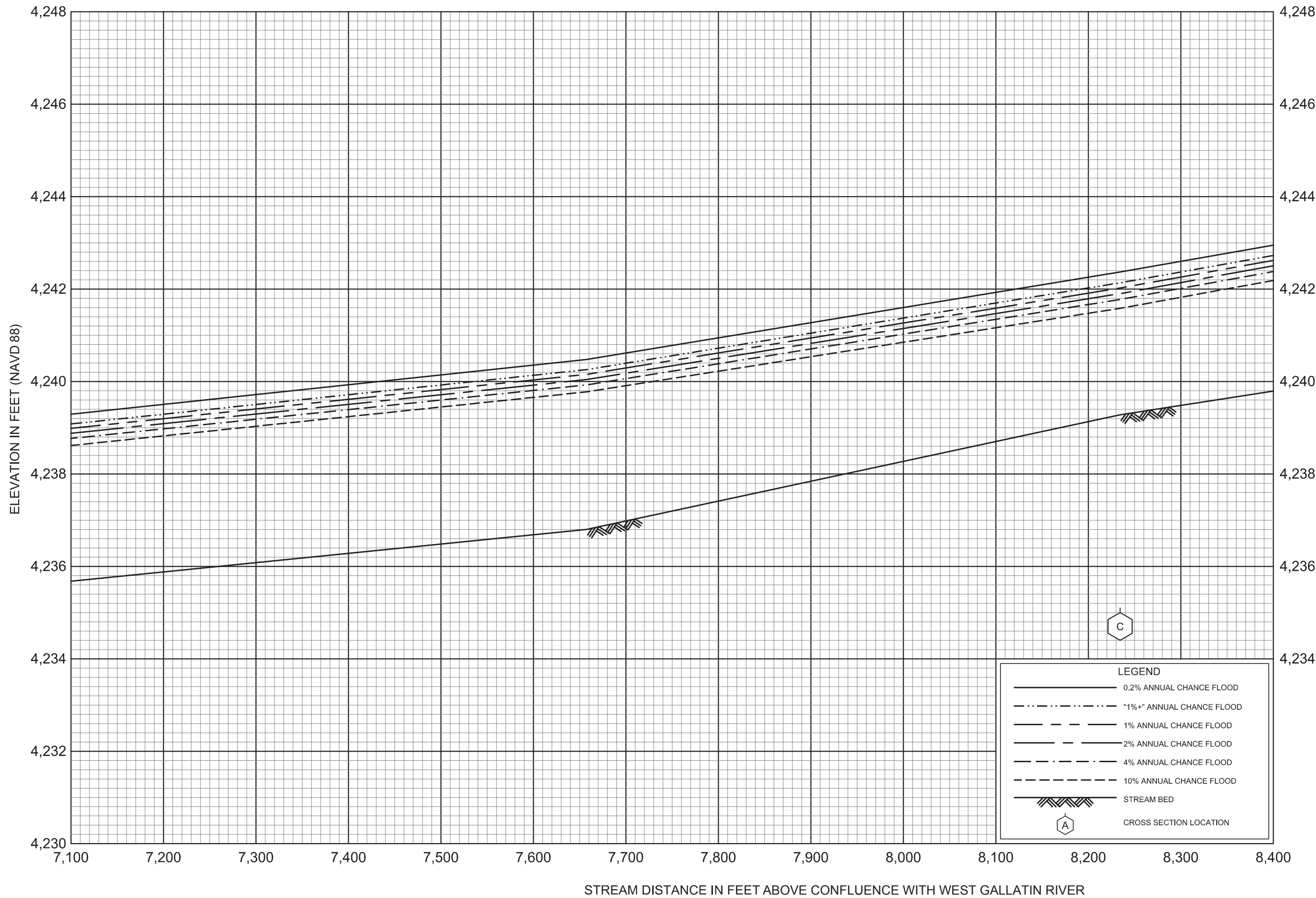
**LEGEND**

	0.2% ANNUAL CHANCE FLOOD
	"1%+" ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD
	4% ANNUAL CHANCE FLOOD
	10% ANNUAL CHANCE FLOOD
	STREAM BED
	CROSS SECTION LOCATION

FLOOD PROFILES  
BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY  
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

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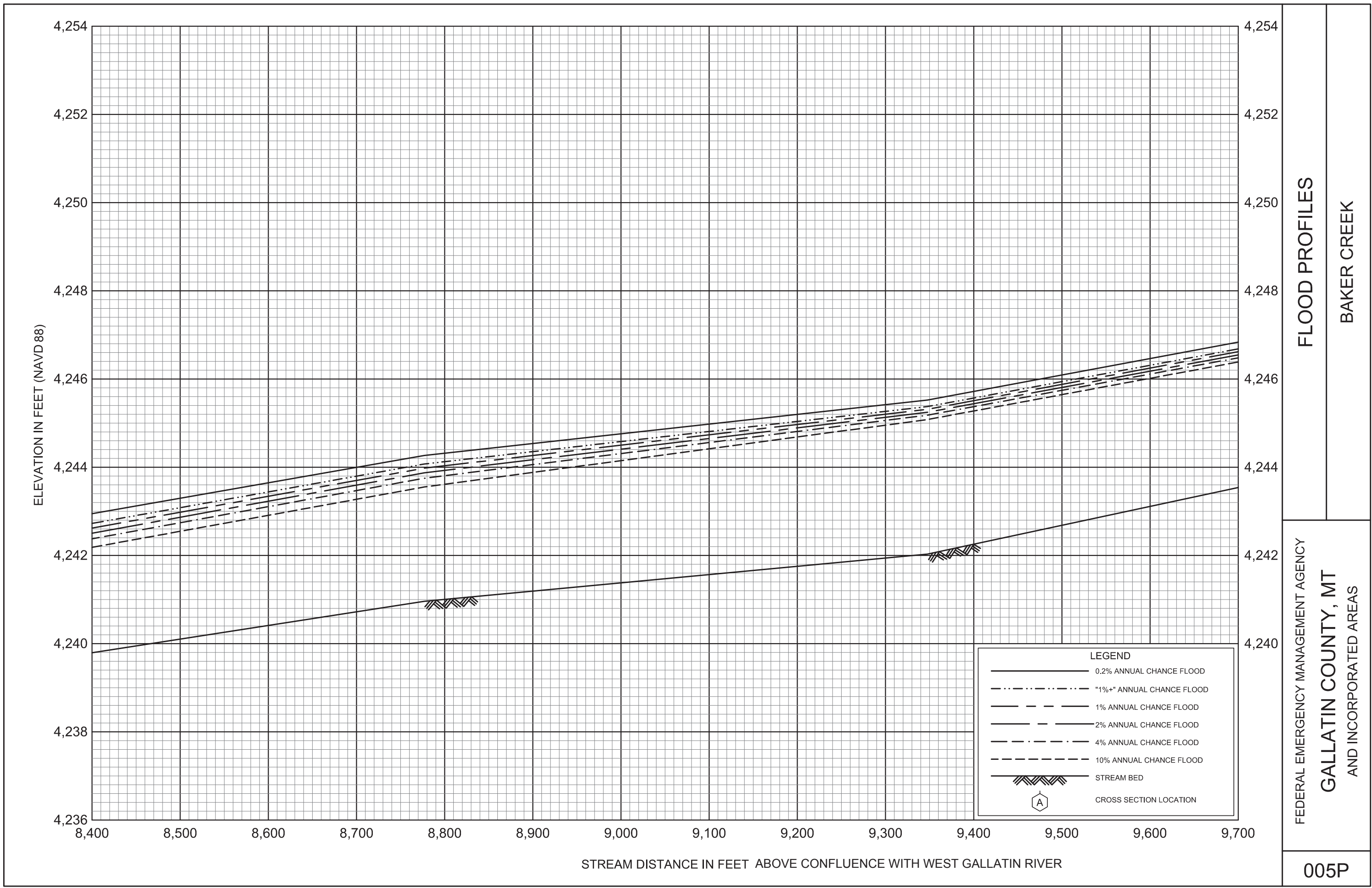


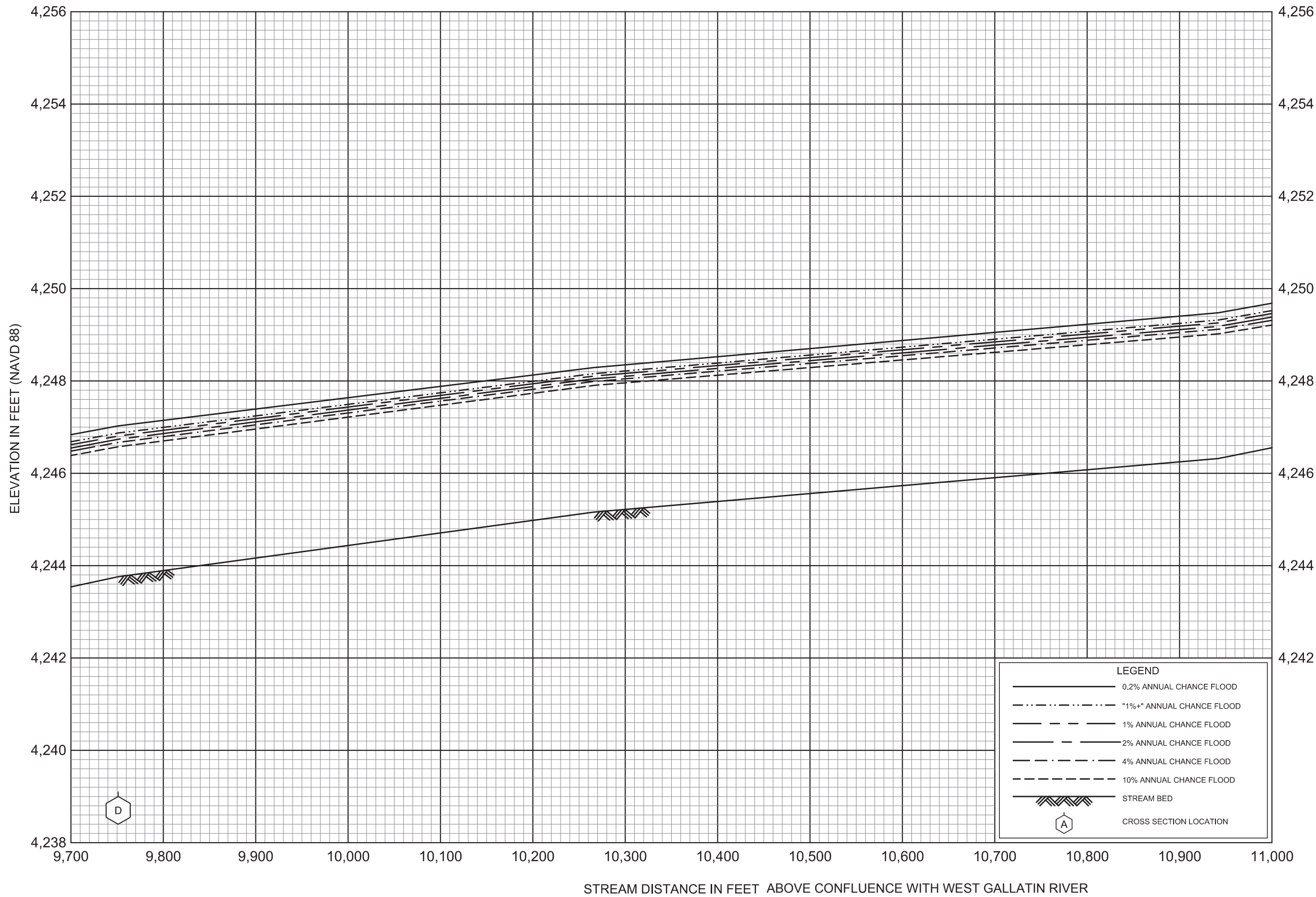
FLOOD PROFILES

BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

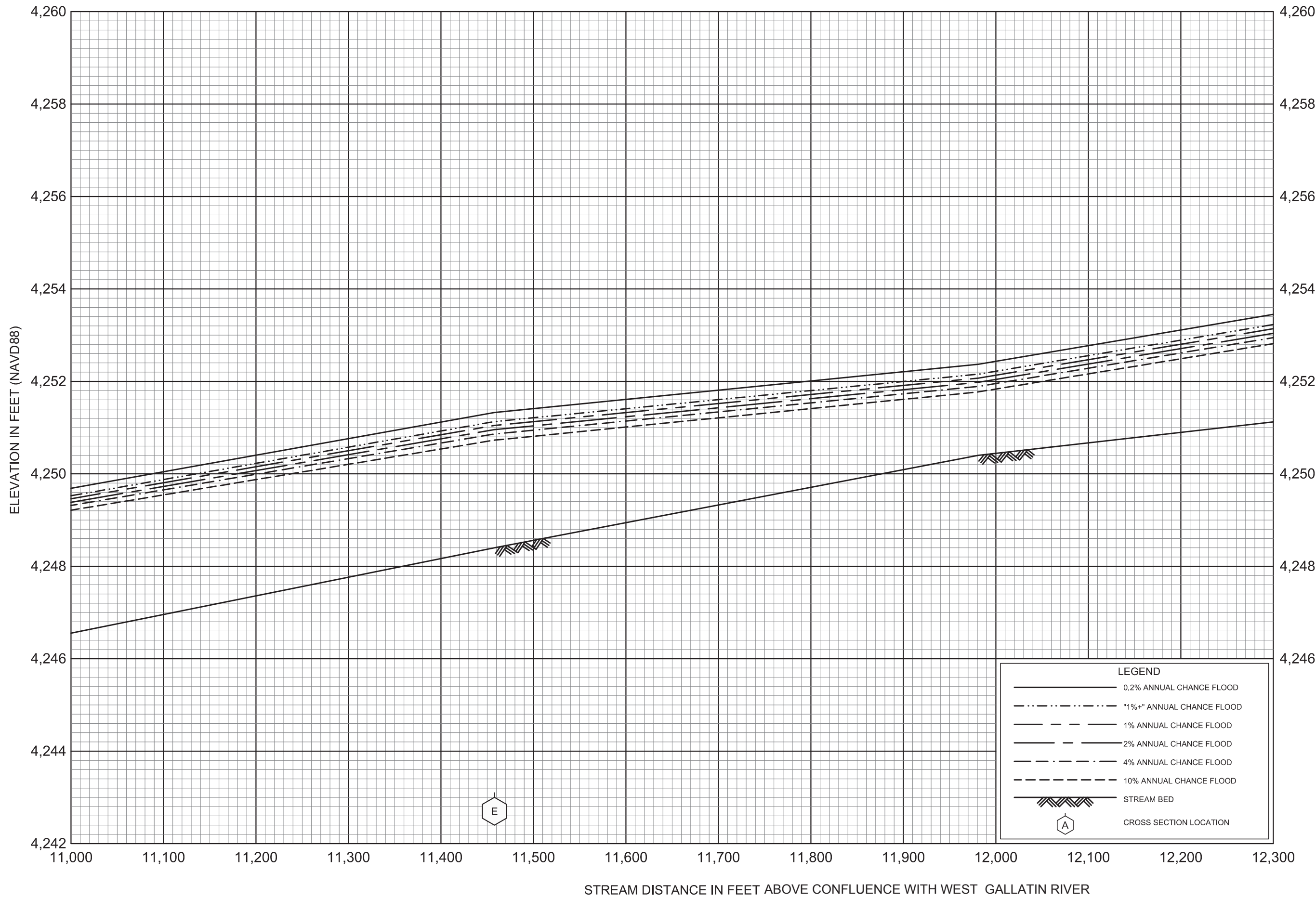




FLOOD PROFILES  
BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY  
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS



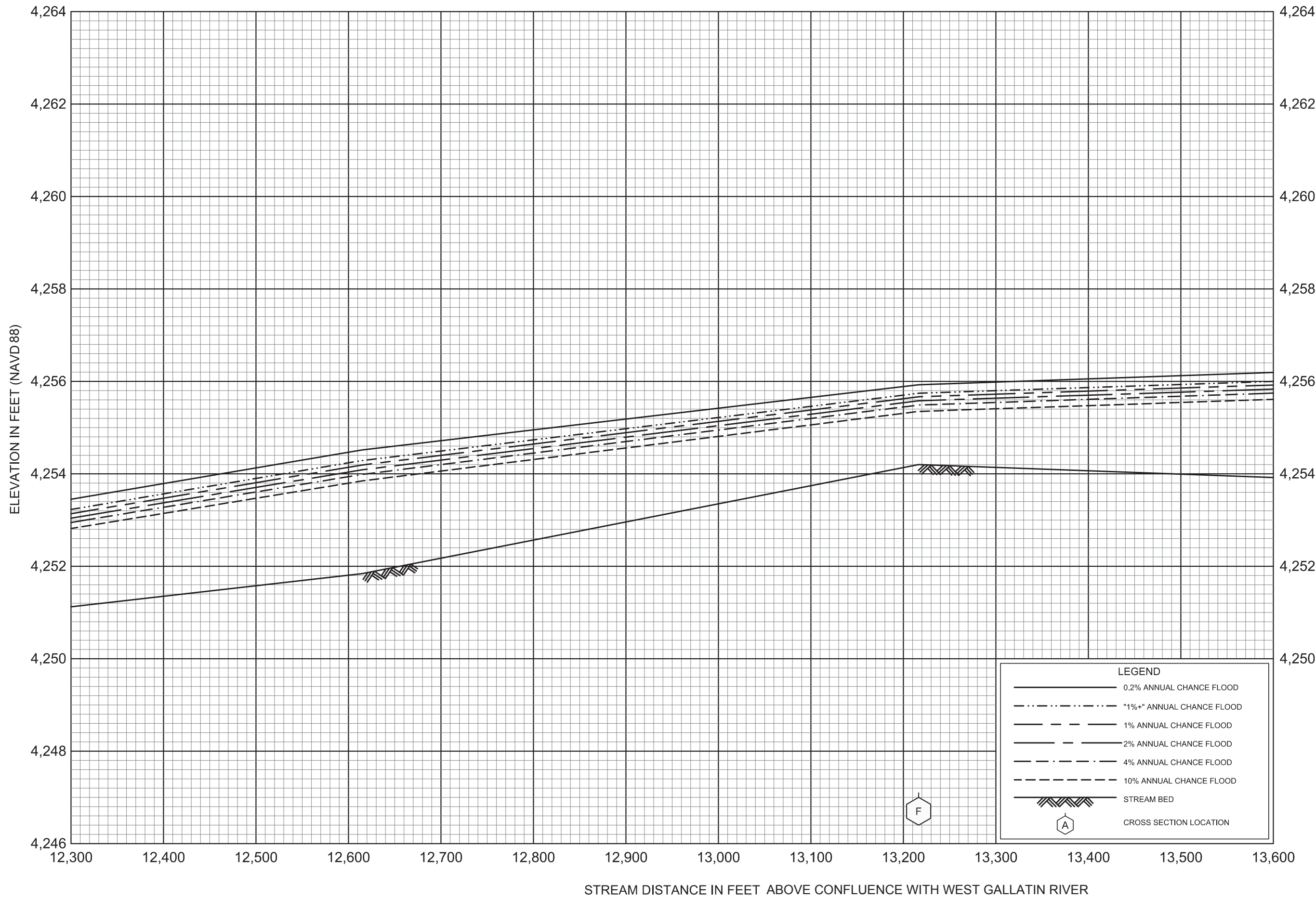


LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	"1%+" ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD
	4% ANNUAL CHANCE FLOOD
	10% ANNUAL CHANCE FLOOD
	STREAM BED
	CROSS SECTION LOCATION

FLOOD PROFILES  
BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY  
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

007P

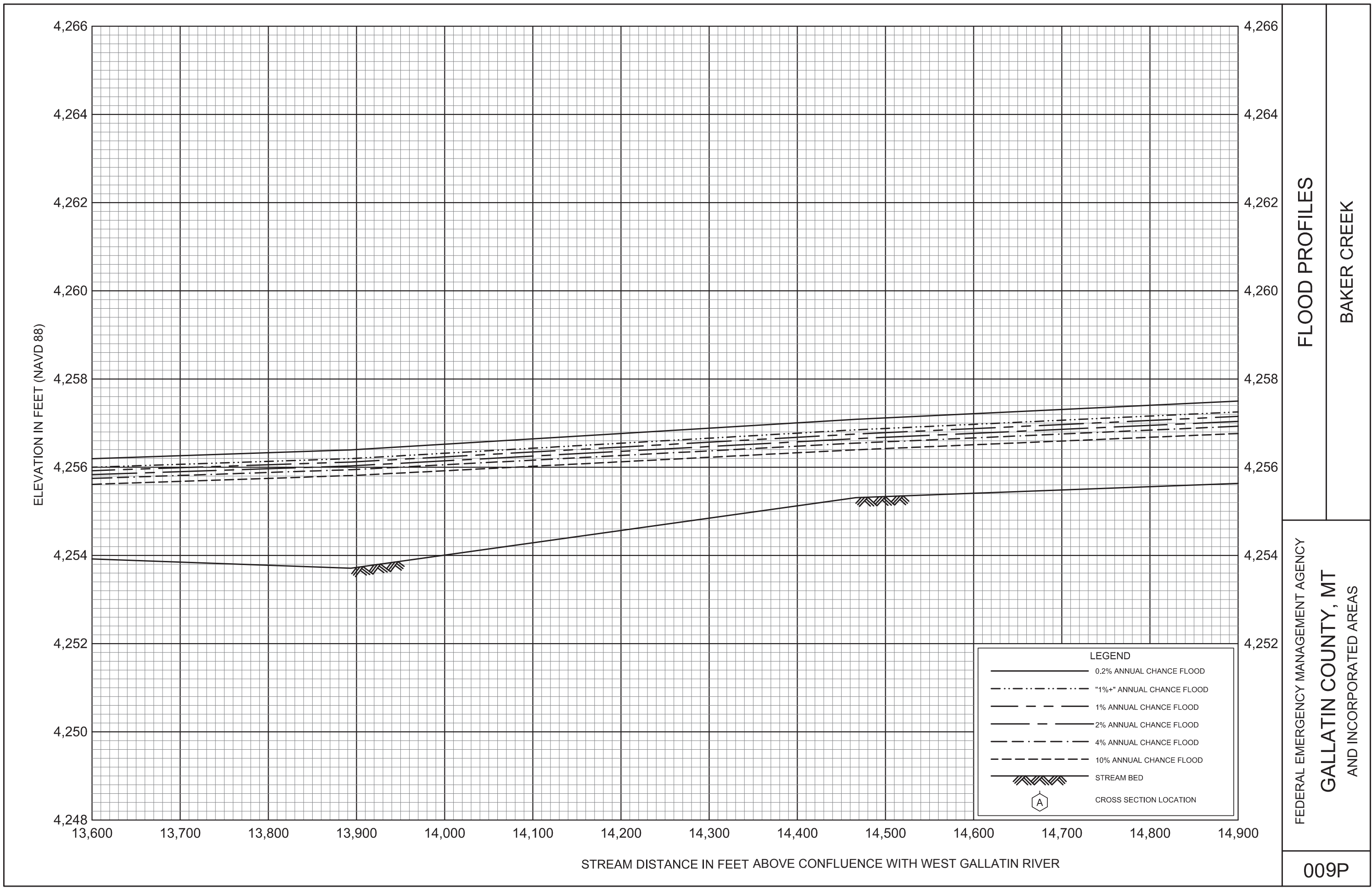


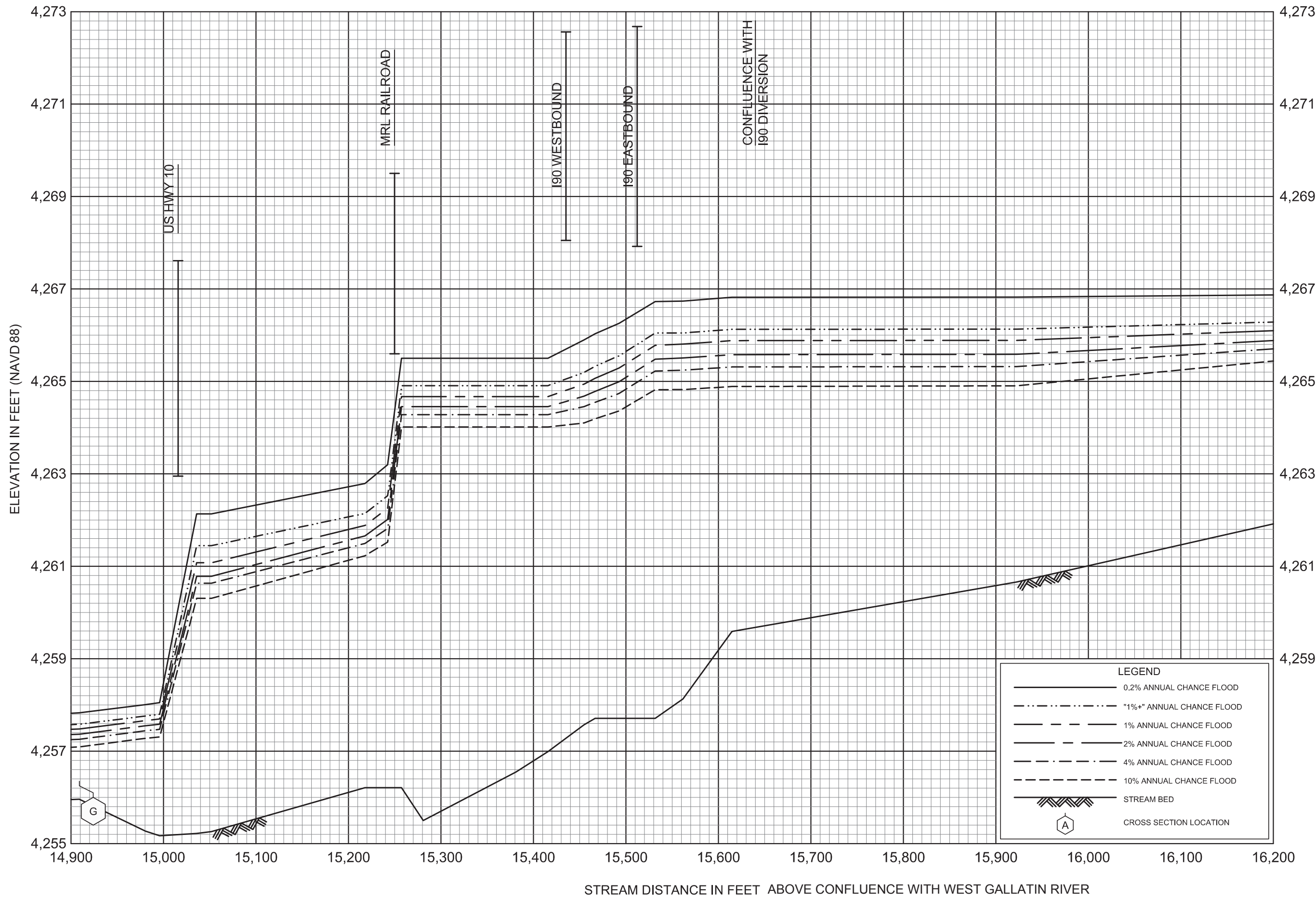
FLOOD PROFILES

BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALLATIN COUNTY, MT  
AND INCORPORATED AREAS



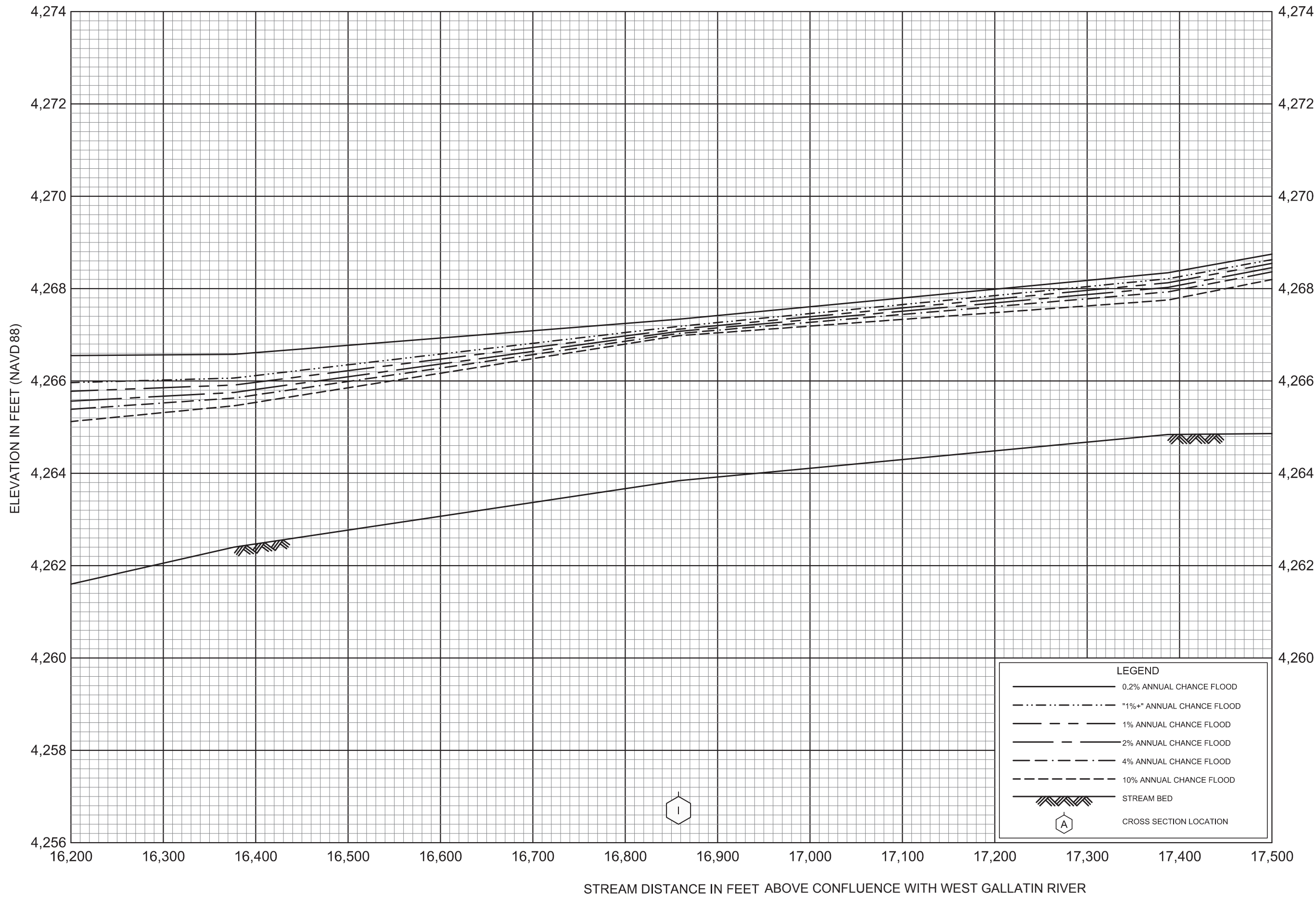


FLOOD PROFILES

BAKER CREEK

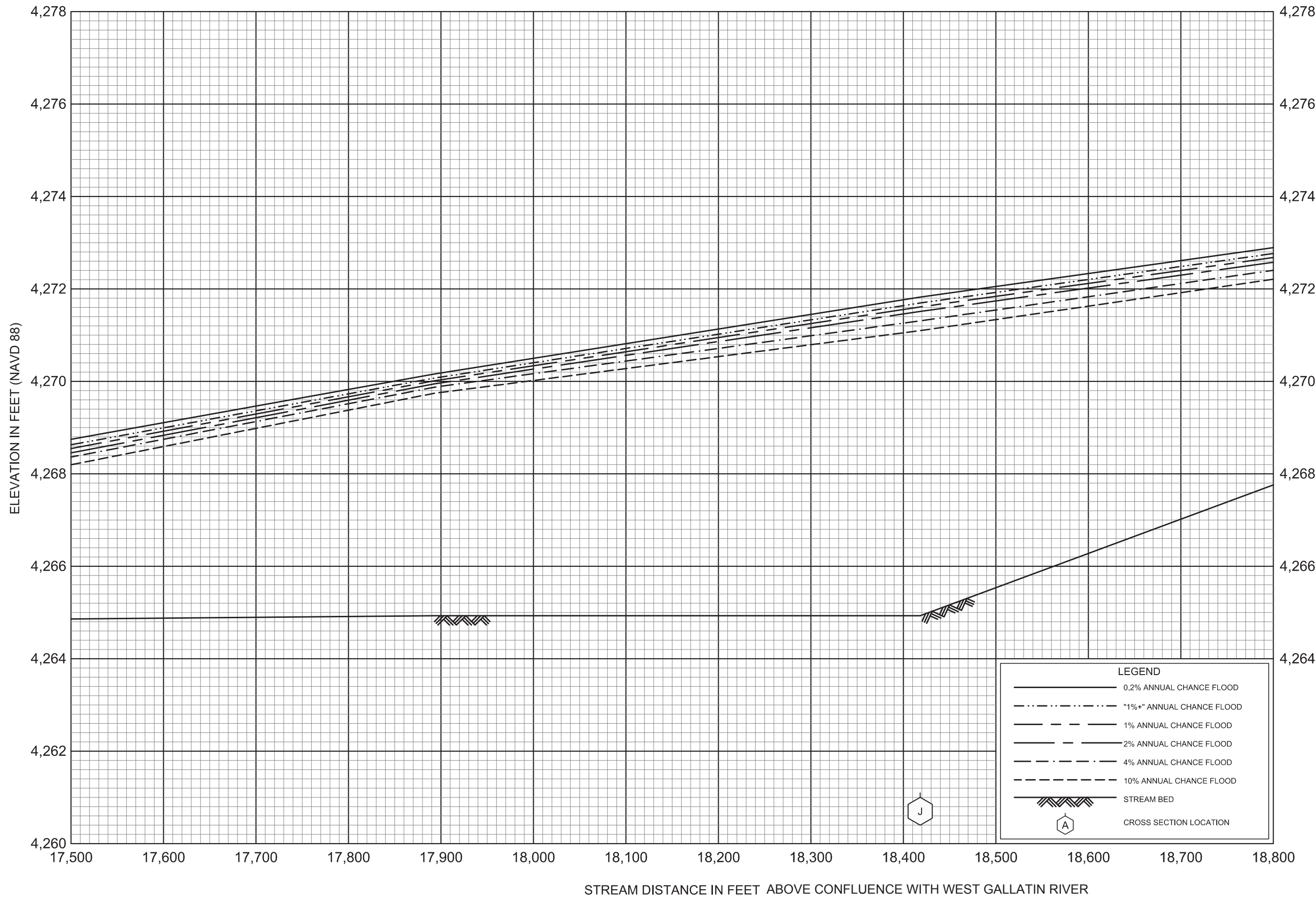
FEDERAL EMERGENCY MANAGEMENT AGENCY

GALLATIN COUNTY, MT  
AND INCORPORATED AREAS



FLOOD PROFILES  
BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY  
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

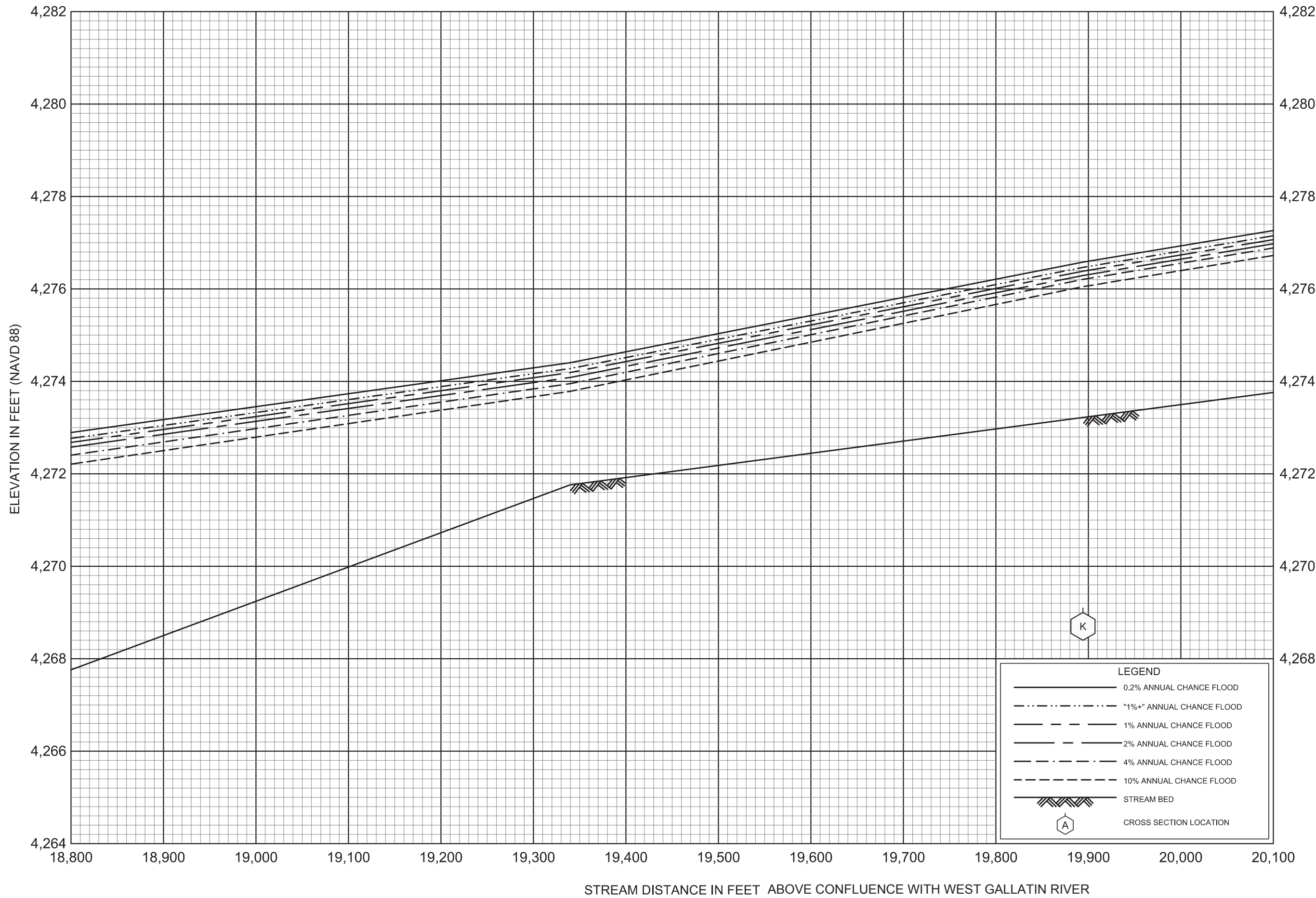


FLOOD PROFILES

BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

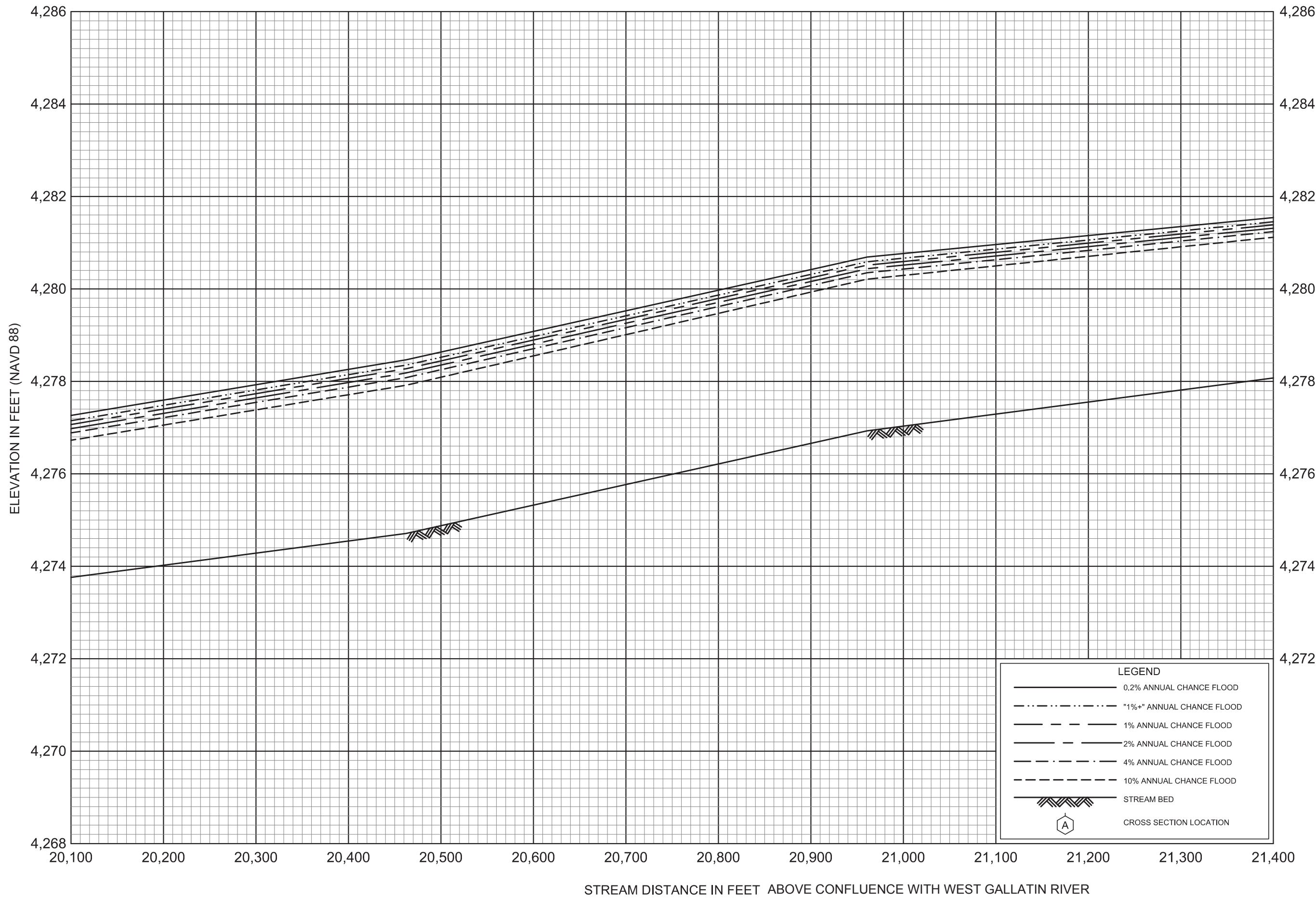


FLOOD PROFILES

BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALLATIN COUNTY, MT  
AND INCORPORATED AREAS



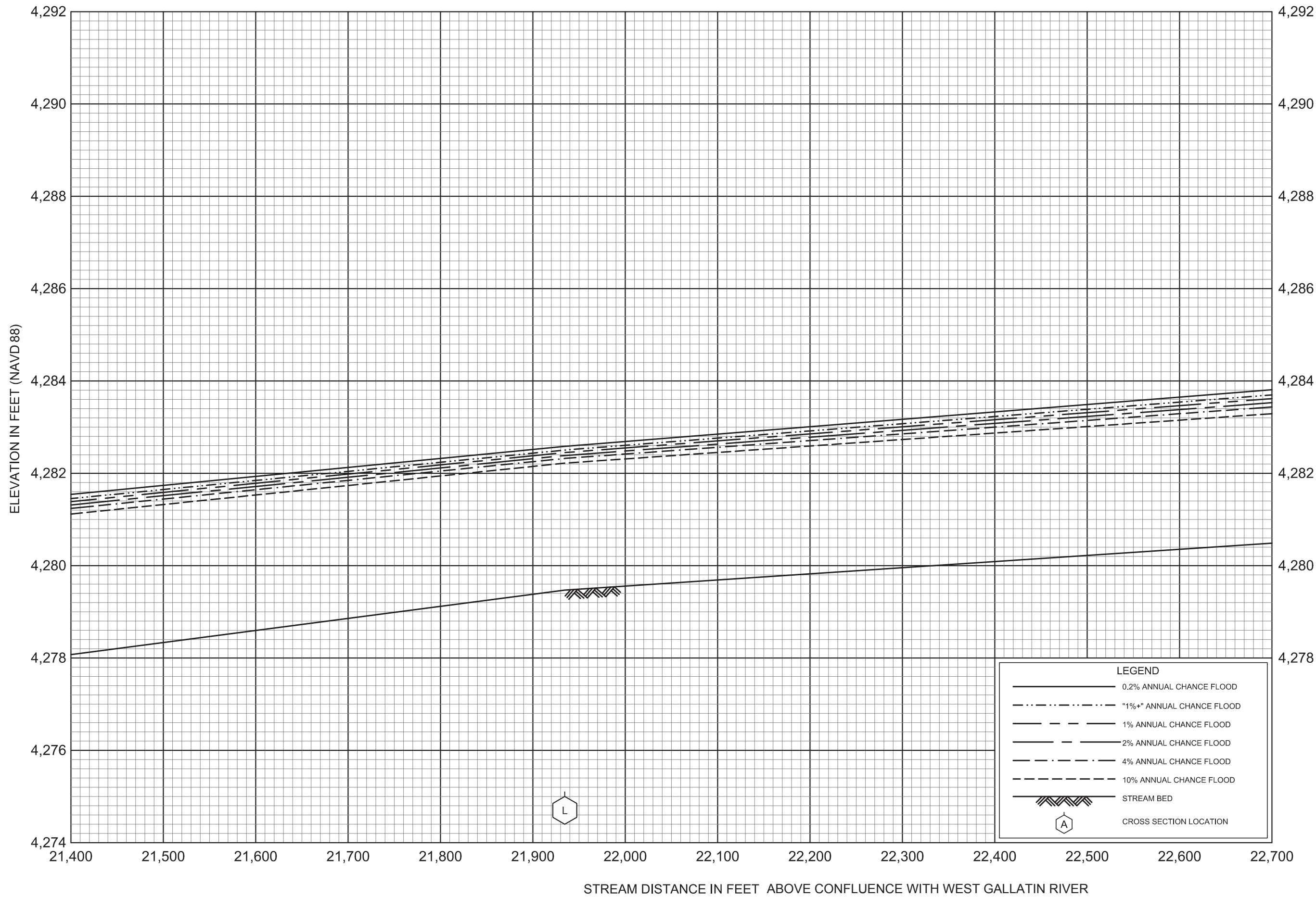
**LEGEND**

- 0.2% ANNUAL CHANCE FLOOD
- · - · - 1%+ ANNUAL CHANCE FLOOD
- - - 1% ANNUAL CHANCE FLOOD
- - - - 2% ANNUAL CHANCE FLOOD
- · - · - 4% ANNUAL CHANCE FLOOD
- - - 10% ANNUAL CHANCE FLOOD
- - - - - STREAM BED
- ⚡ CROSS SECTION LOCATION

**FLOOD PROFILES**  
**BAKER CREEK**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**GALLATIN COUNTY, MT**  
 AND INCORPORATED AREAS



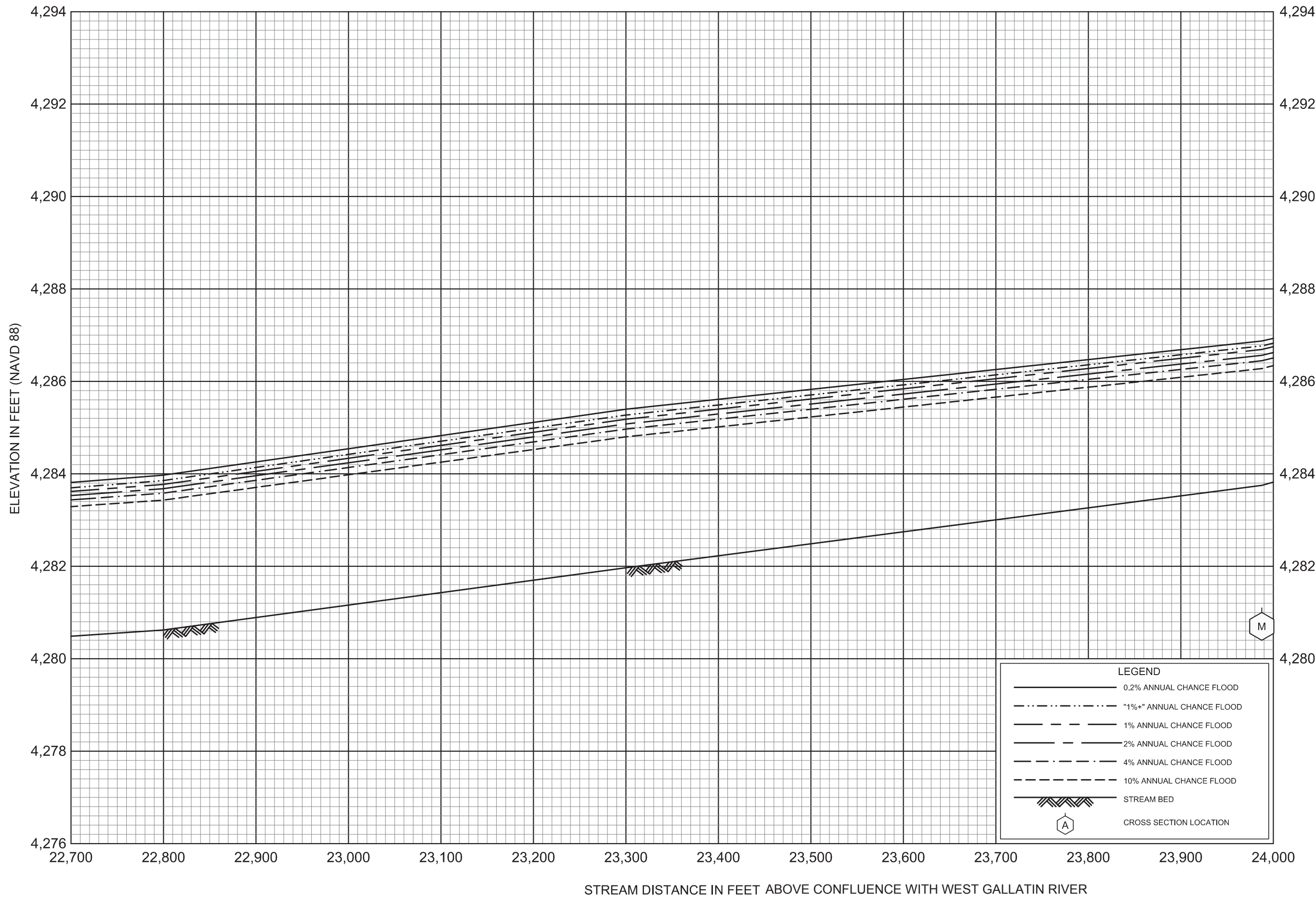


FLOOD PROFILES

BAKER CREEK

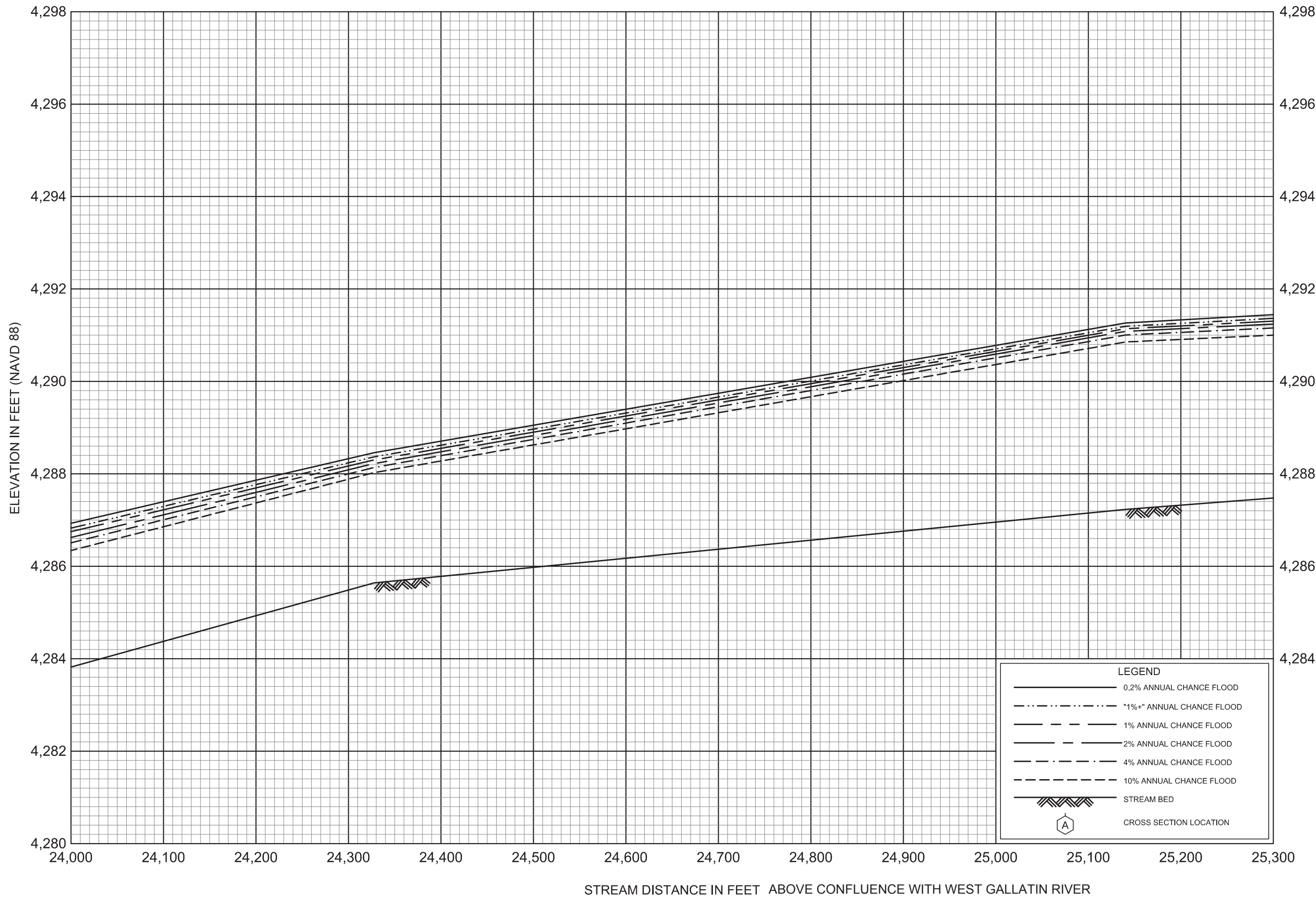
FEDERAL EMERGENCY MANAGEMENT AGENCY

GALLATIN COUNTY, MT  
AND INCORPORATED AREAS



FLOOD PROFILES  
BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY  
GALLATIN COUNTY, MT  
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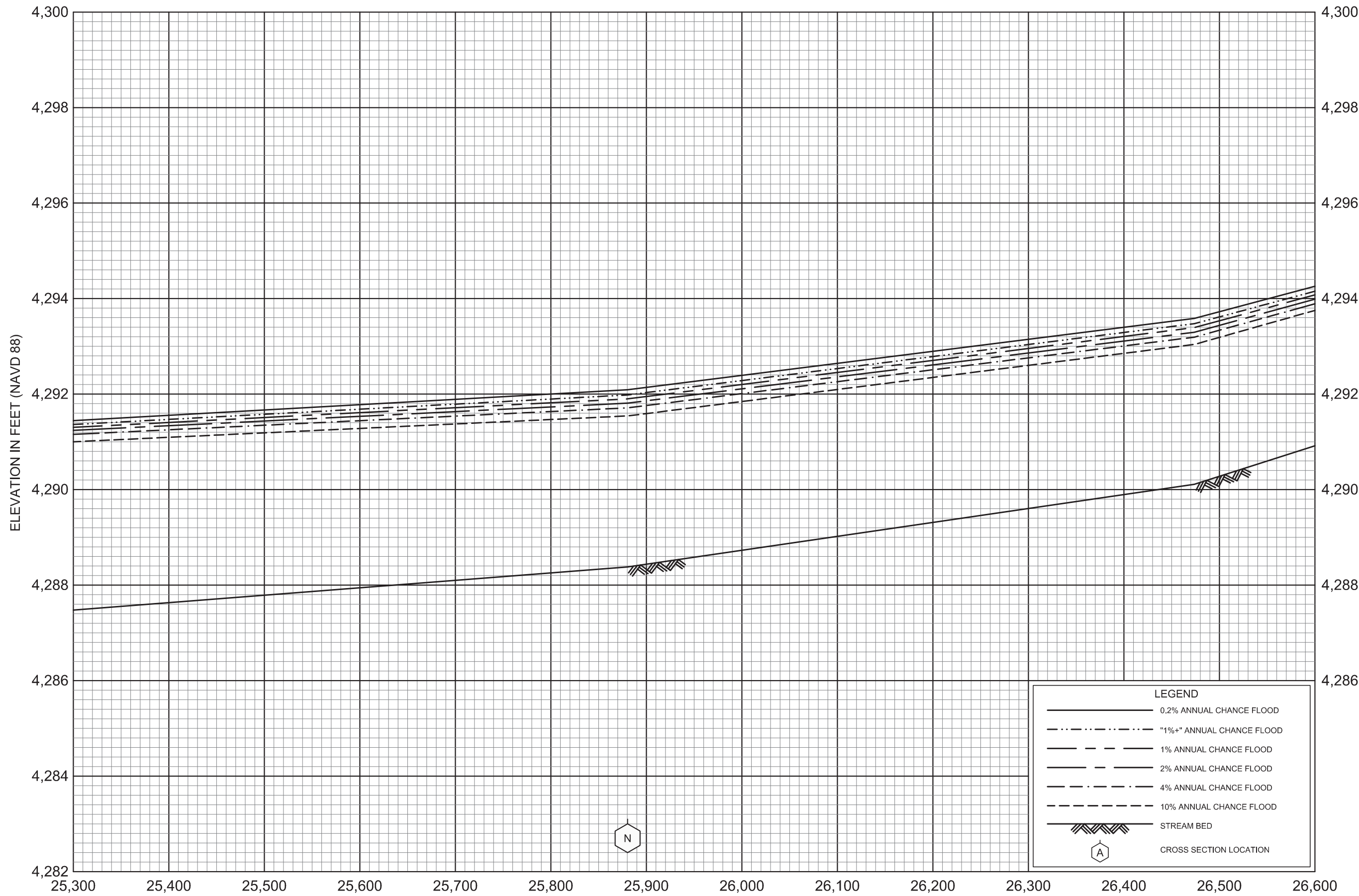


FLOOD PROFILES

BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

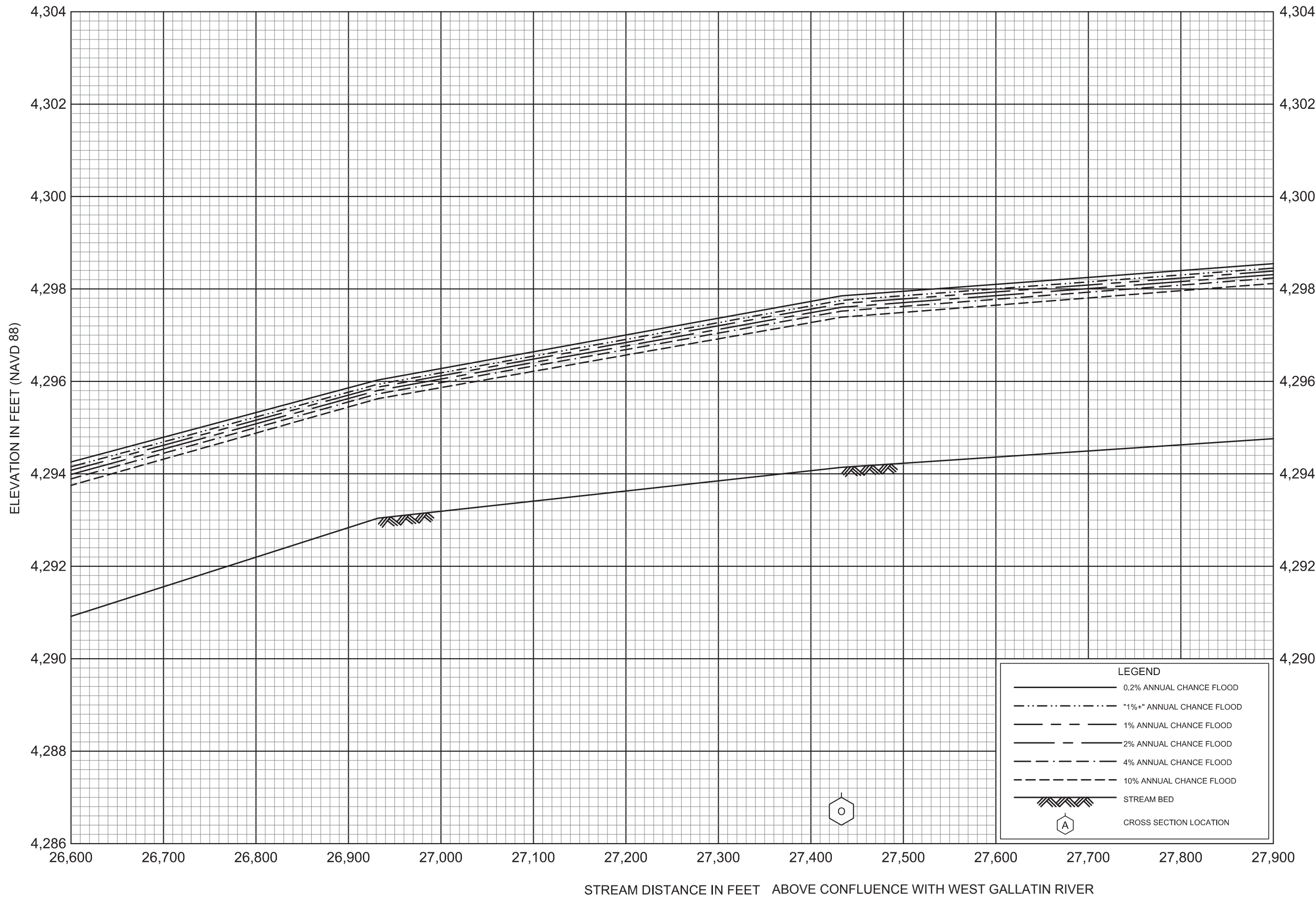


**LEGEND**

- 0.2% ANNUAL CHANCE FLOOD
- · - · - 1%+ ANNUAL CHANCE FLOOD
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- - - 10% ANNUAL CHANCE FLOOD
- / / / / / STREAM BED
- ⬡ CROSS SECTION LOCATION

**FLOOD PROFILES**  
**BAKER CREEK**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**GALLATIN COUNTY, MT**  
 AND INCORPORATED AREAS



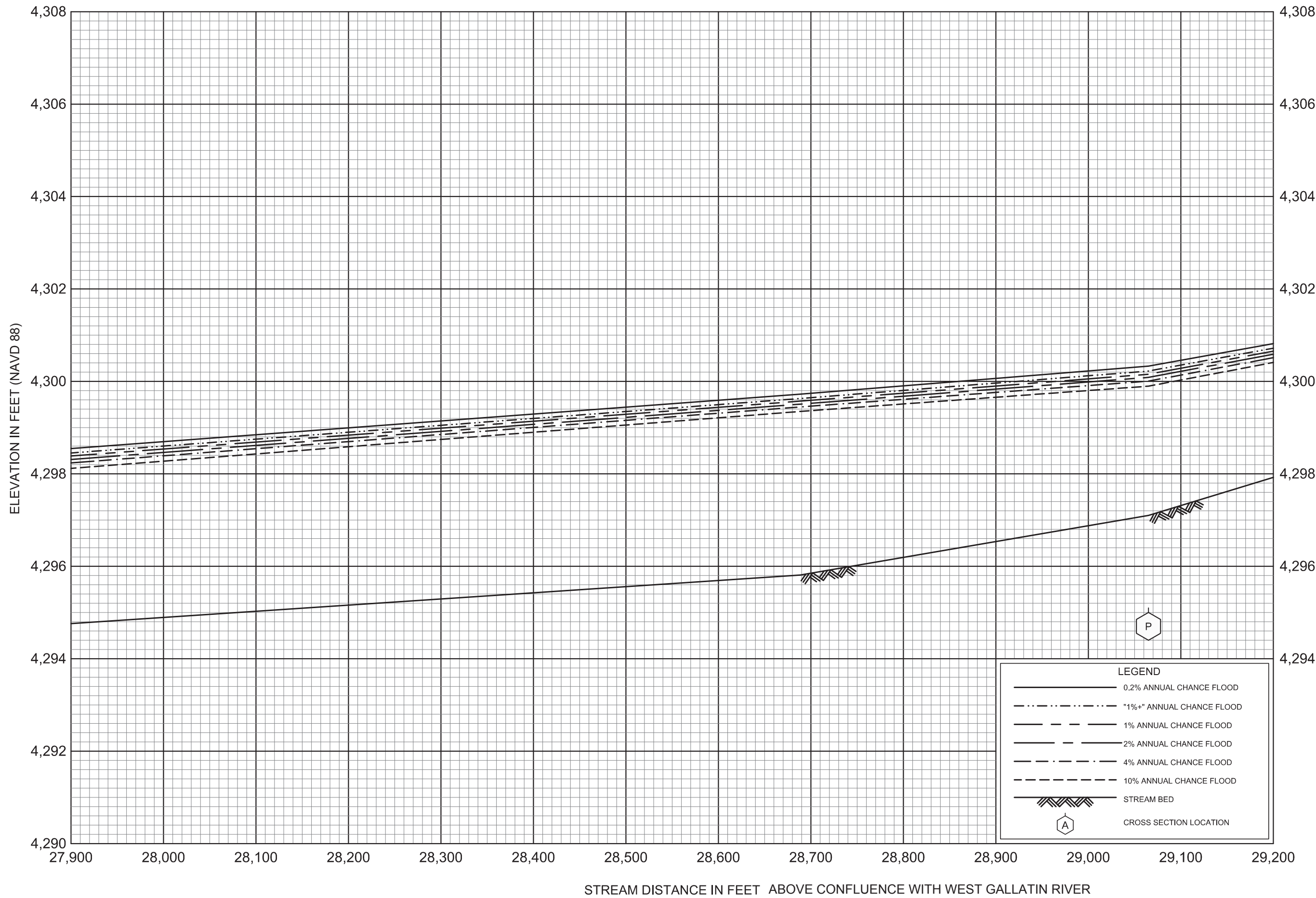
FLOOD PROFILES

BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

019P



LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	"1%+" ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD
	4% ANNUAL CHANCE FLOOD
	10% ANNUAL CHANCE FLOOD
	STREAM BED
	CROSS SECTION LOCATION

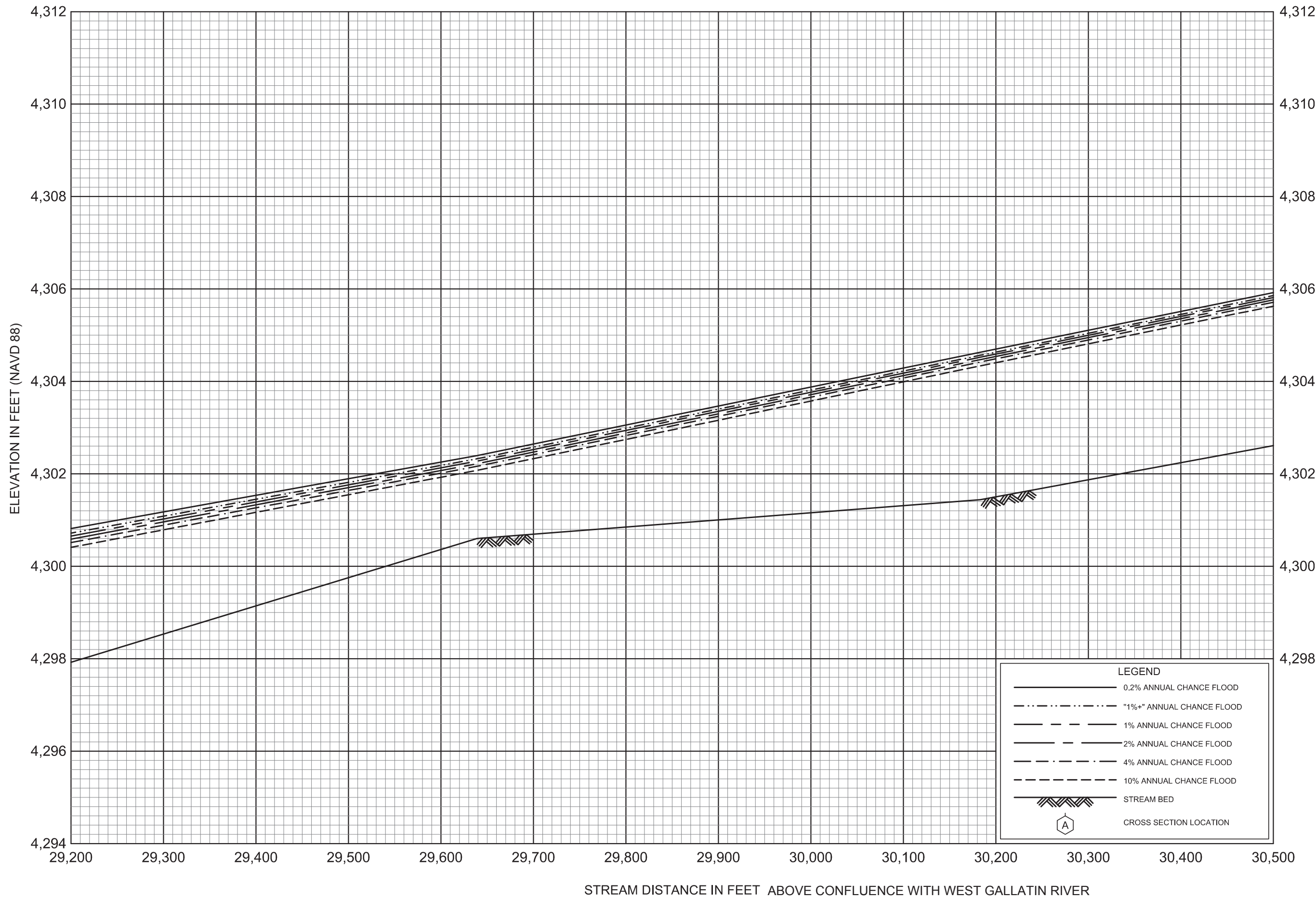
FLOOD PROFILES

BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

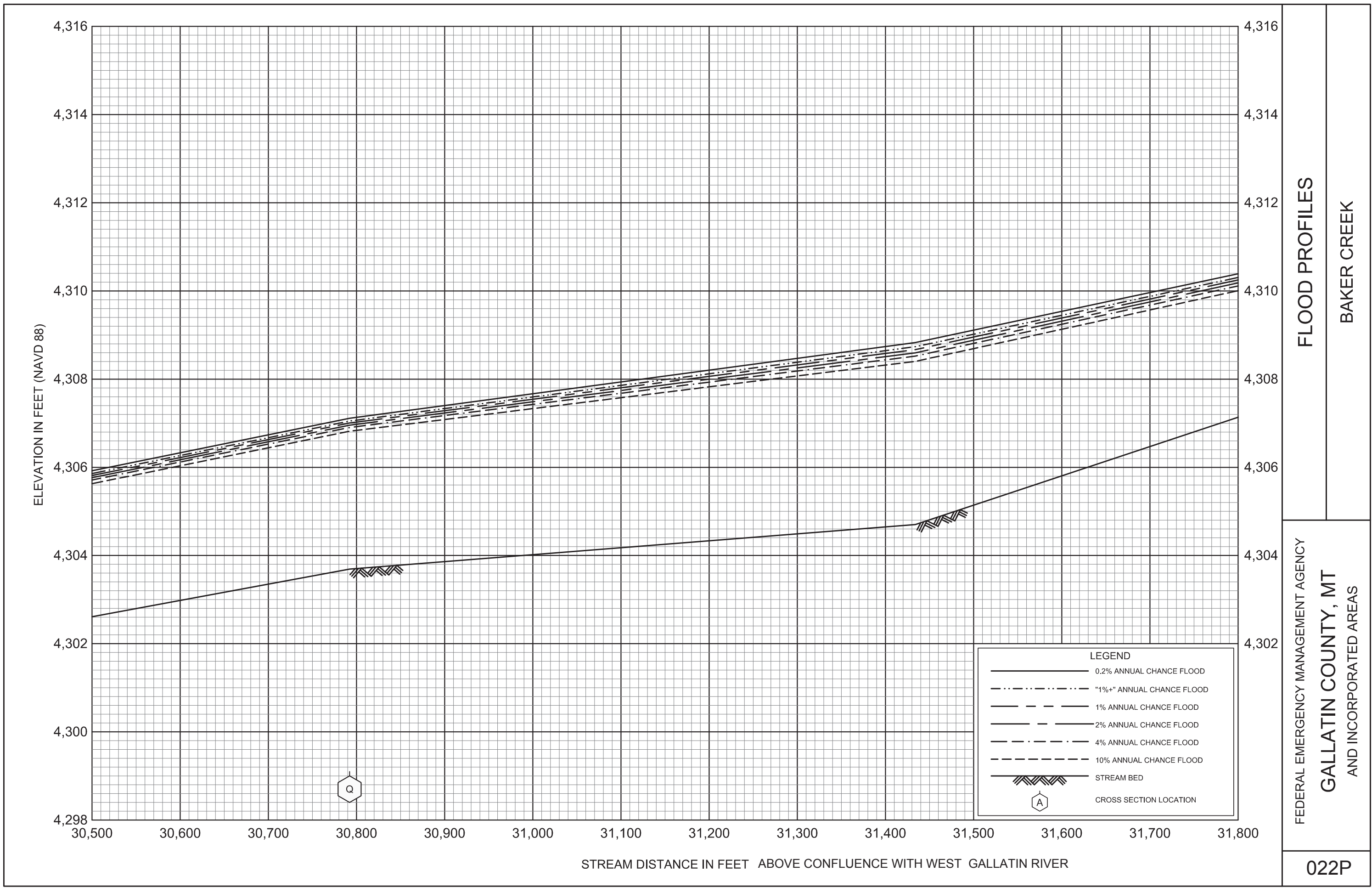
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

020P

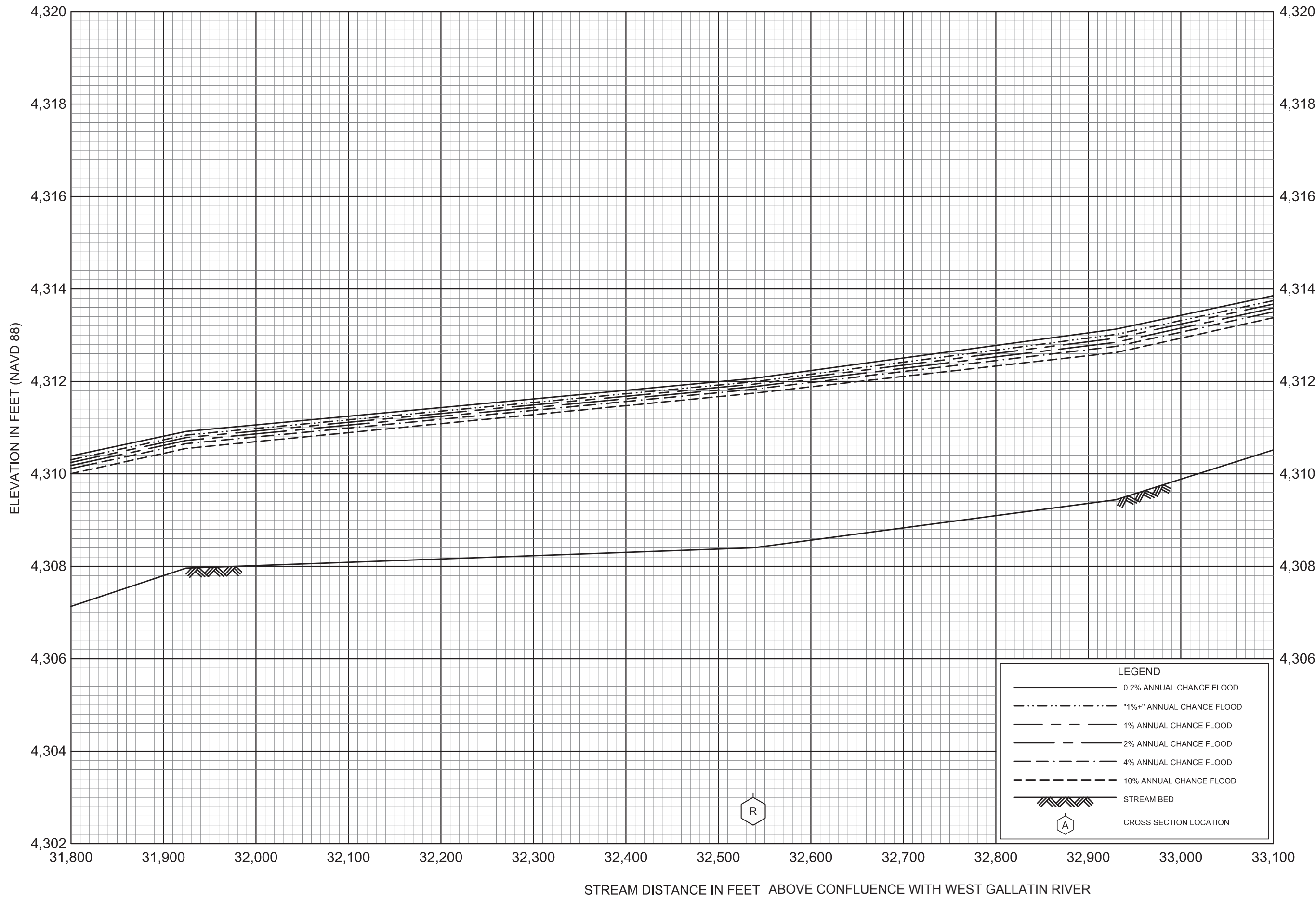


FLOOD PROFILES  
BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY  
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

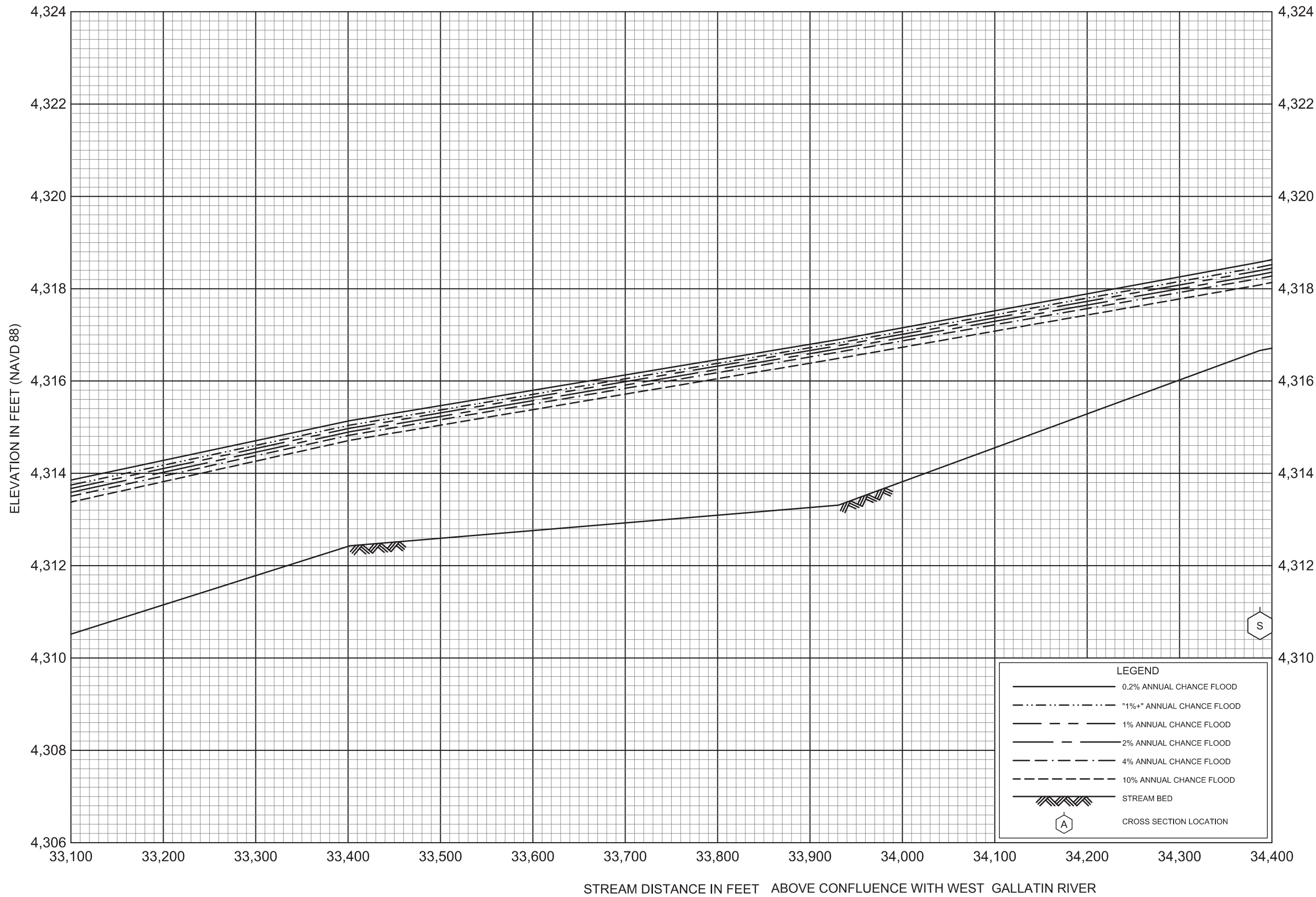






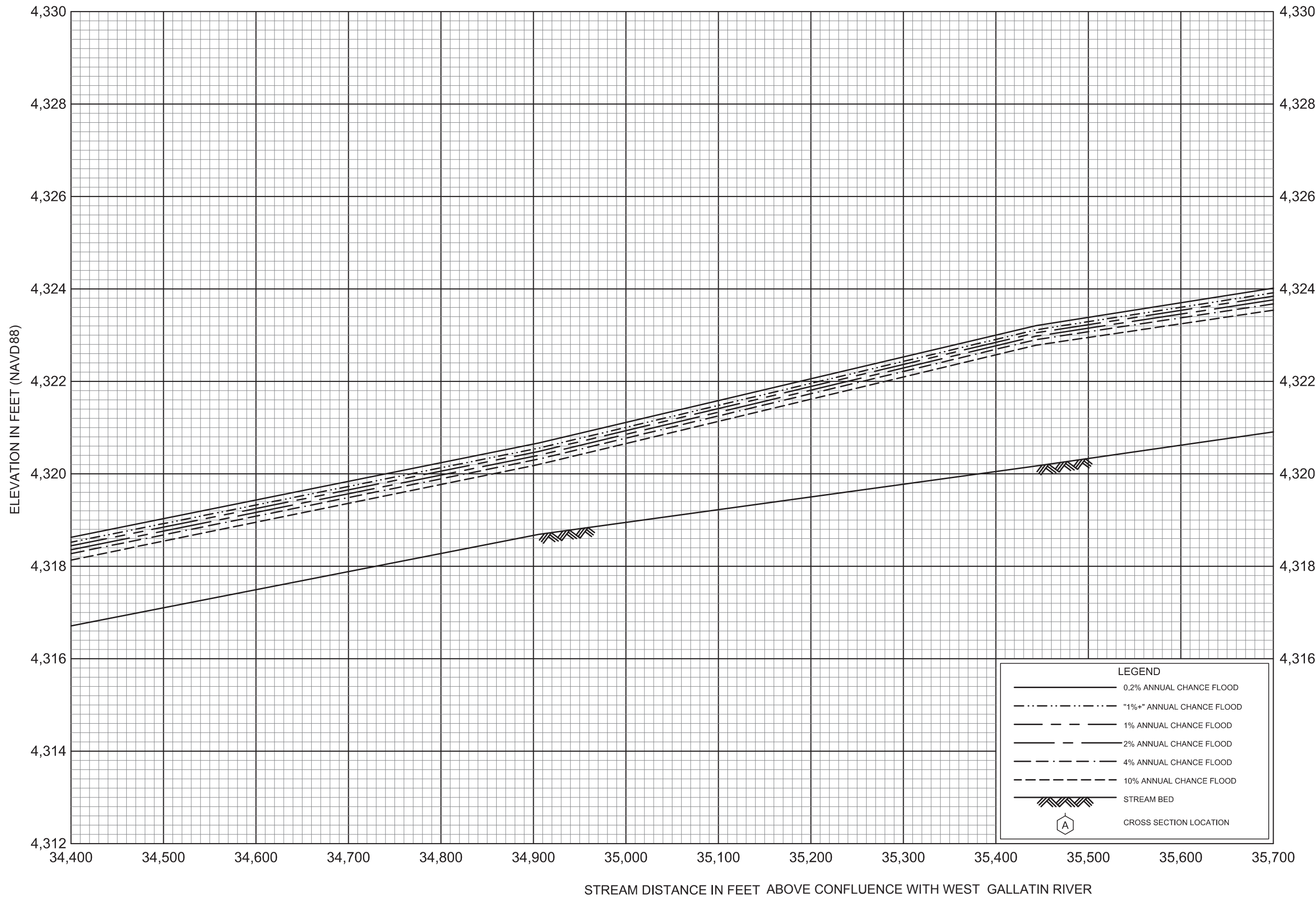
FLOOD PROFILES  
BAKER CREEK

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GALLATIN COUNTY, MT  
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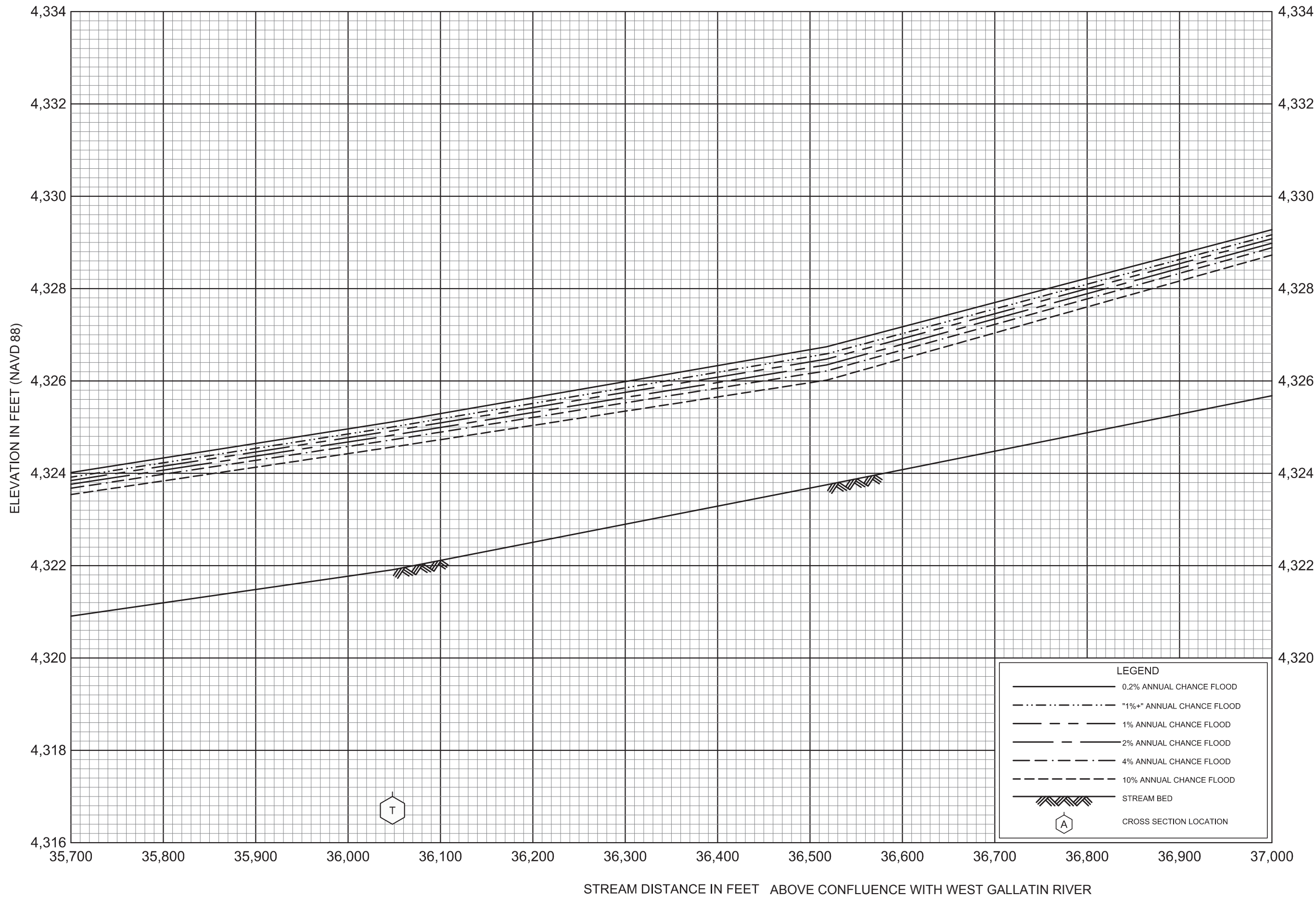
FLOOD PROFILES  
BAKER CREEK

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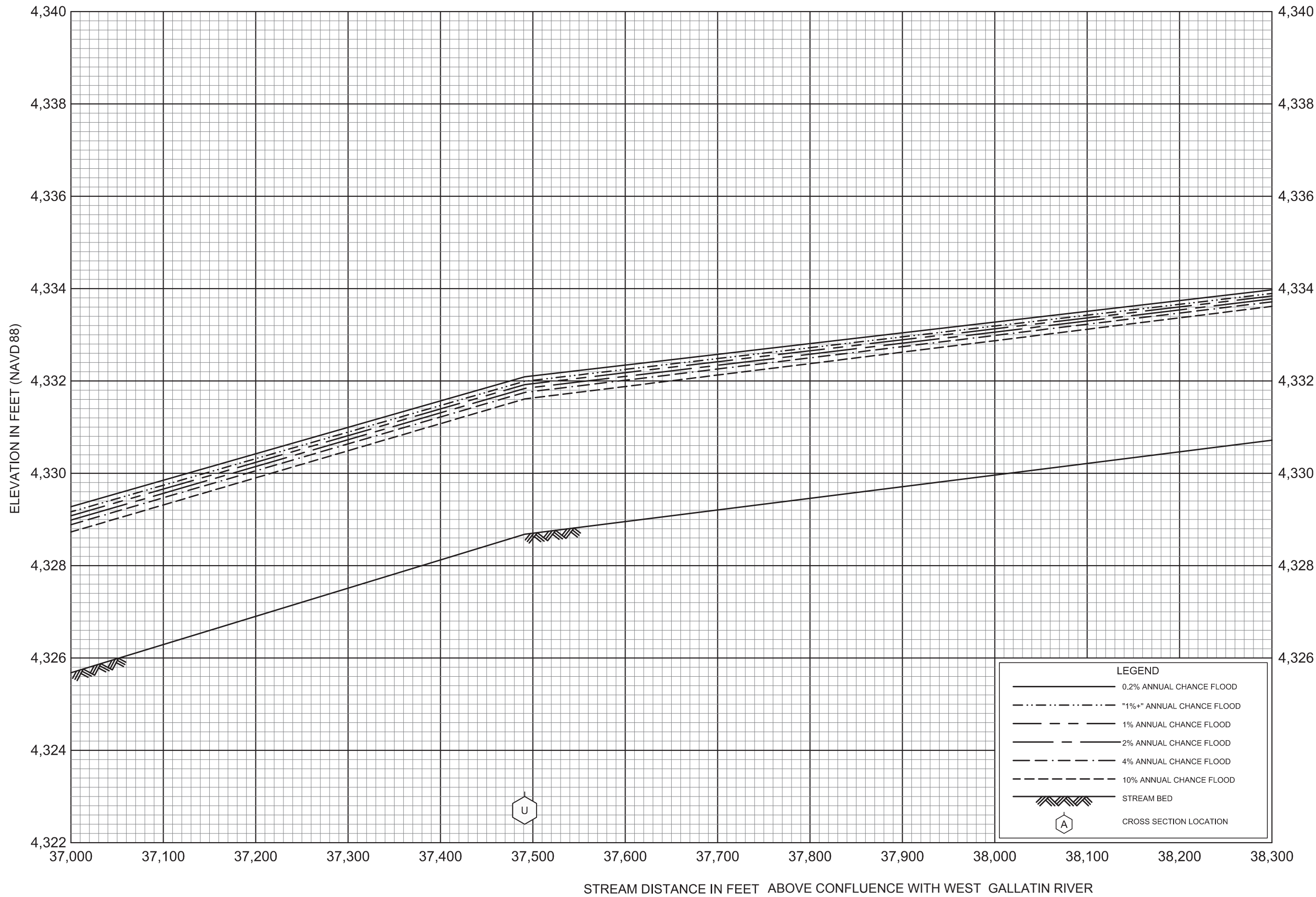
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BAKER CREEK

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AND INCORPORATED AREAS



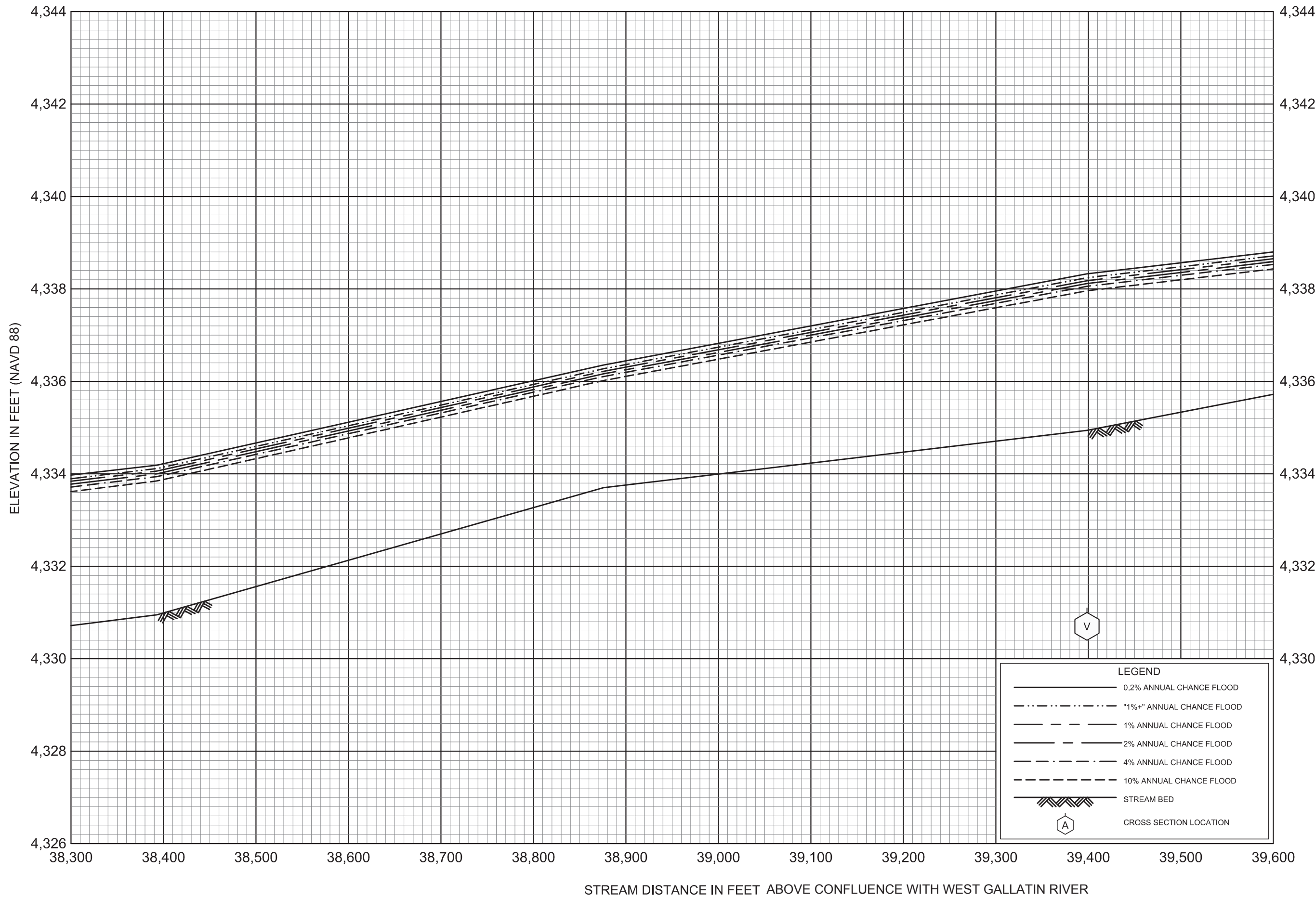
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BAKER CREEK

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GALLATIN COUNTY, MT  
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BAKER CREEK

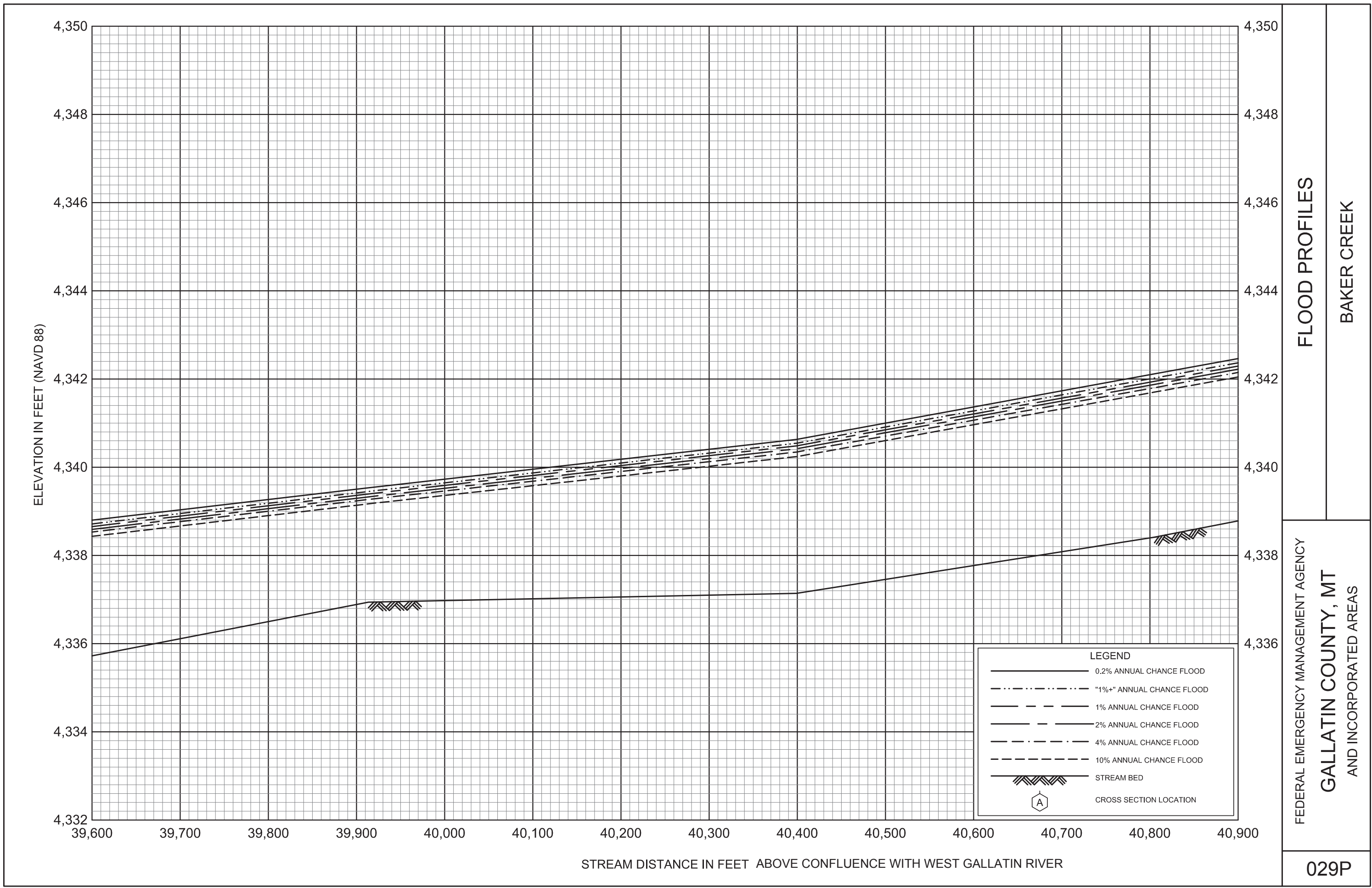
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GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

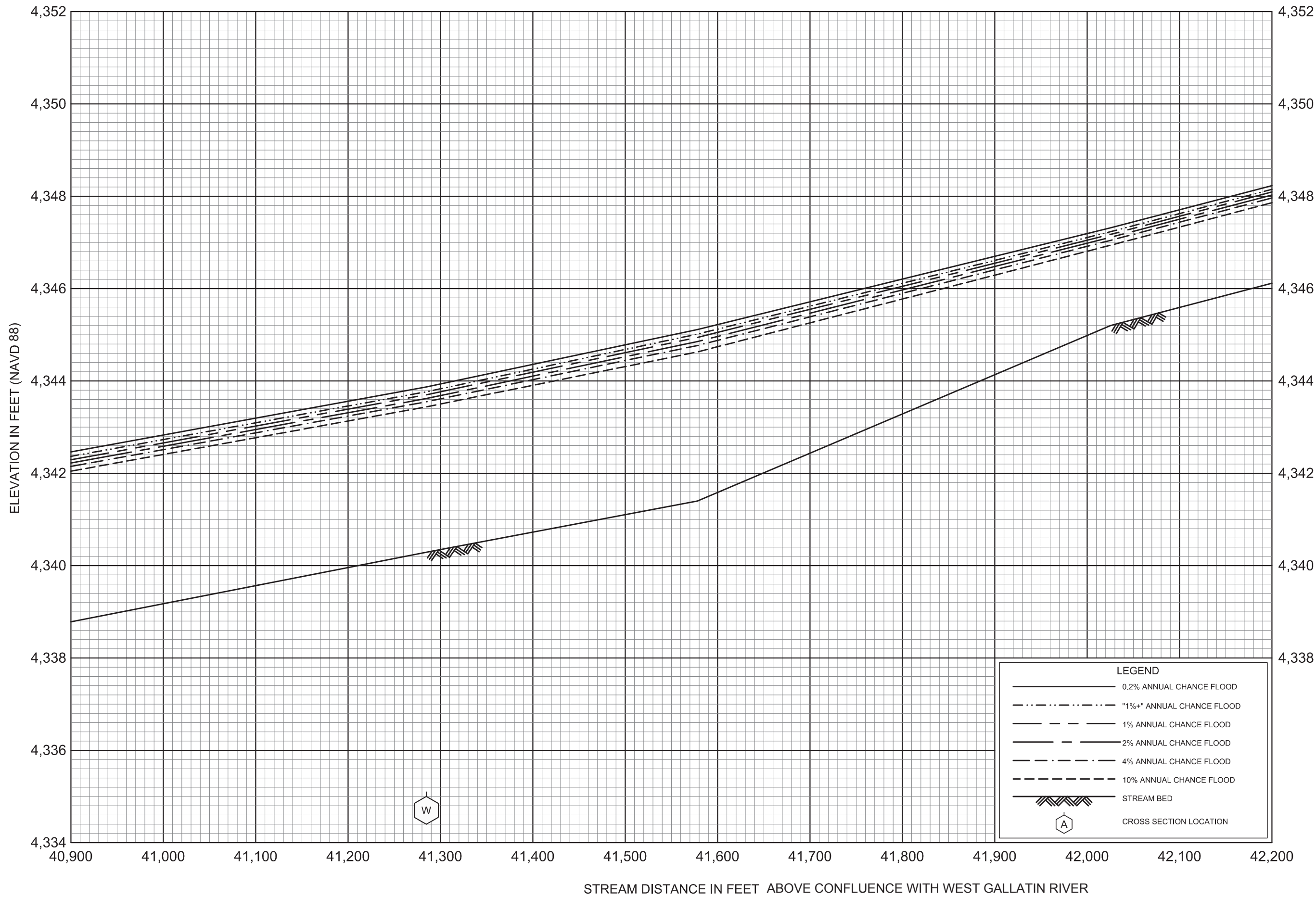


LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	"1%+" ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FLOOD
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	4% ANNUAL CHANCE FLOOD
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	STREAM BED
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FLOOD PROFILES  
BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY  
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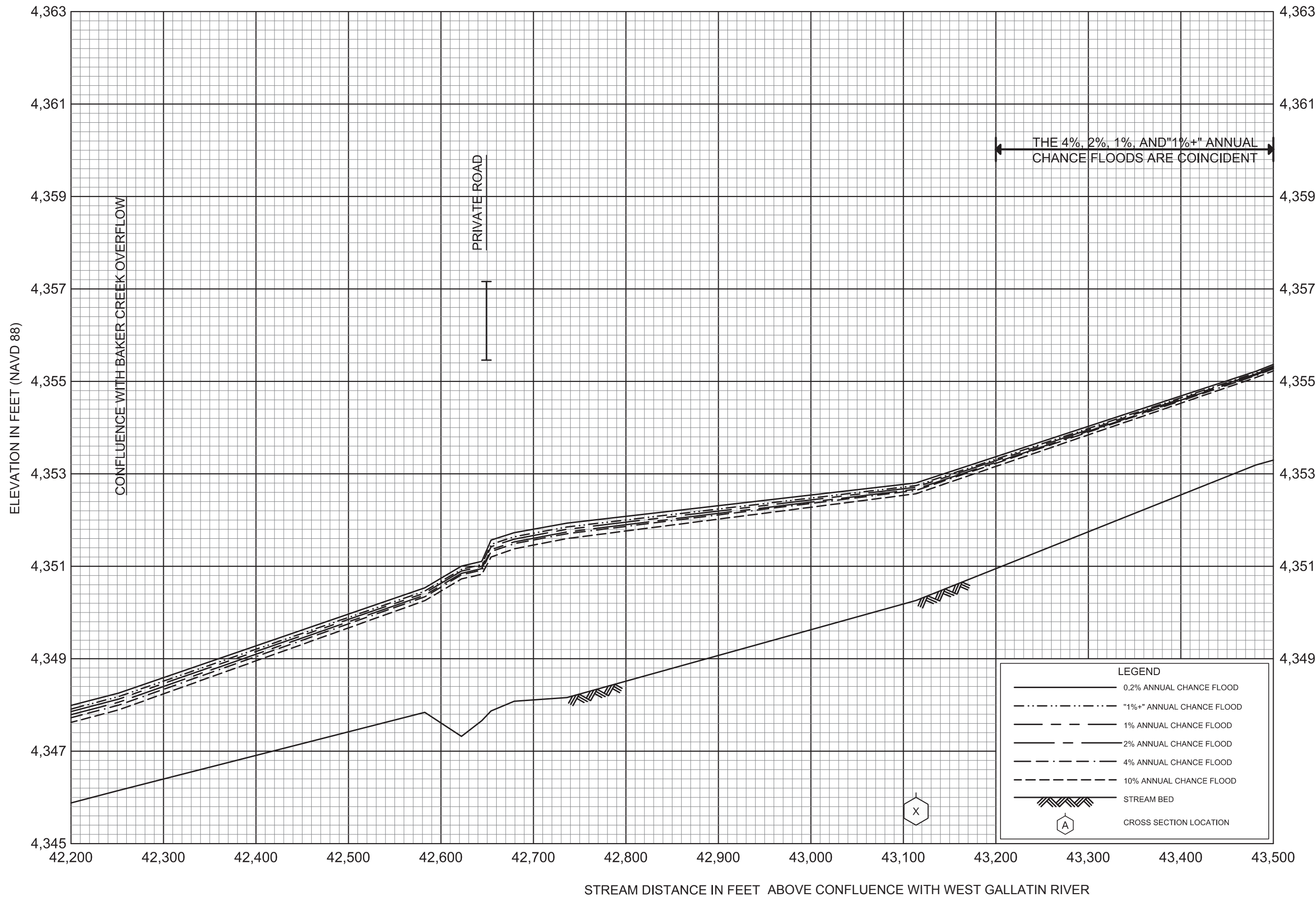
FLOOD PROFILES

BAKER CREEK

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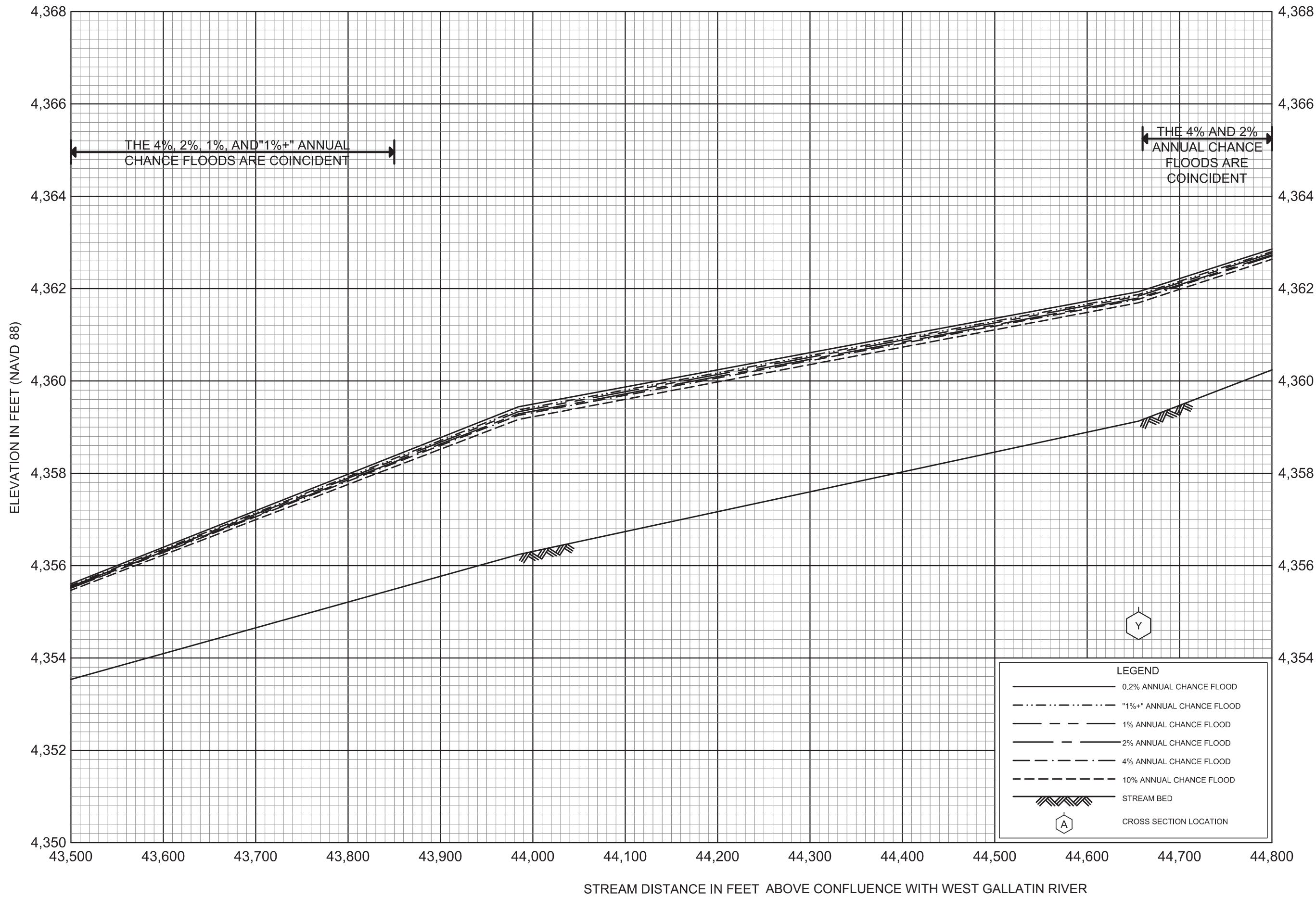
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS





FLOOD PROFILES  
BAKER CREEK

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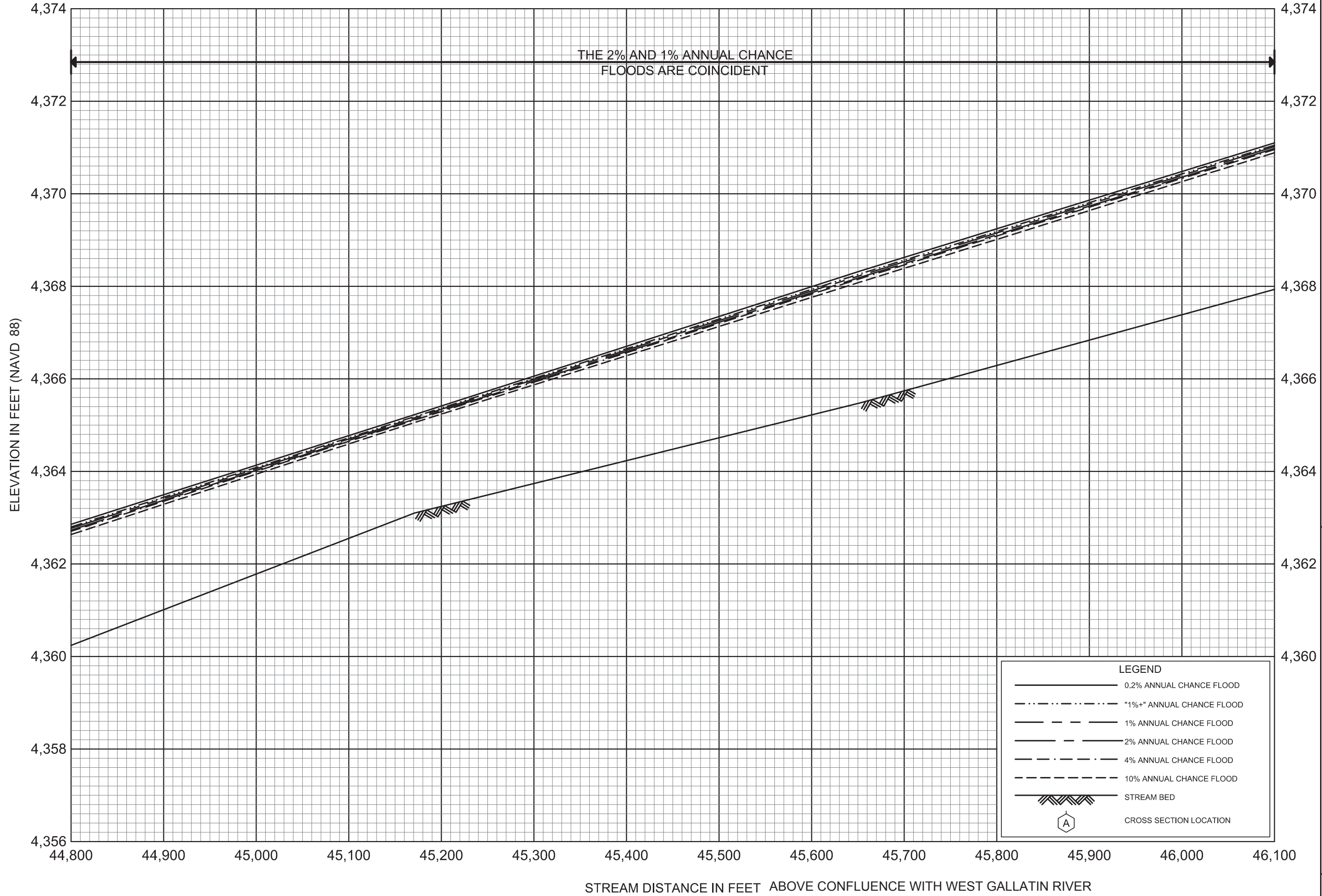
FLOOD PROFILES

BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

THE 2% AND 1% ANNUAL CHANGE  
FLOODS ARE COINCIDENT

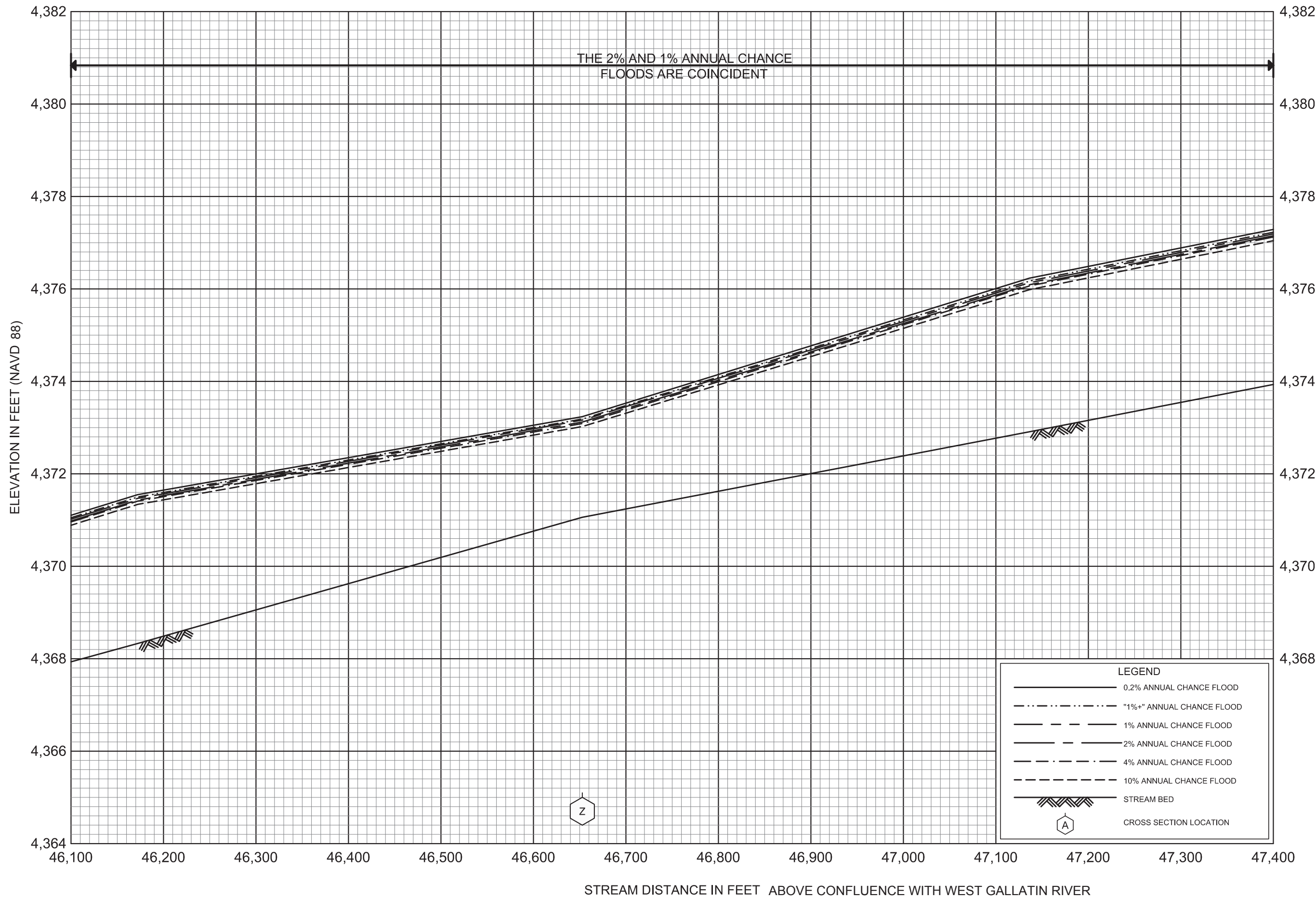


FLOOD PROFILES

BAKER CREEK

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GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

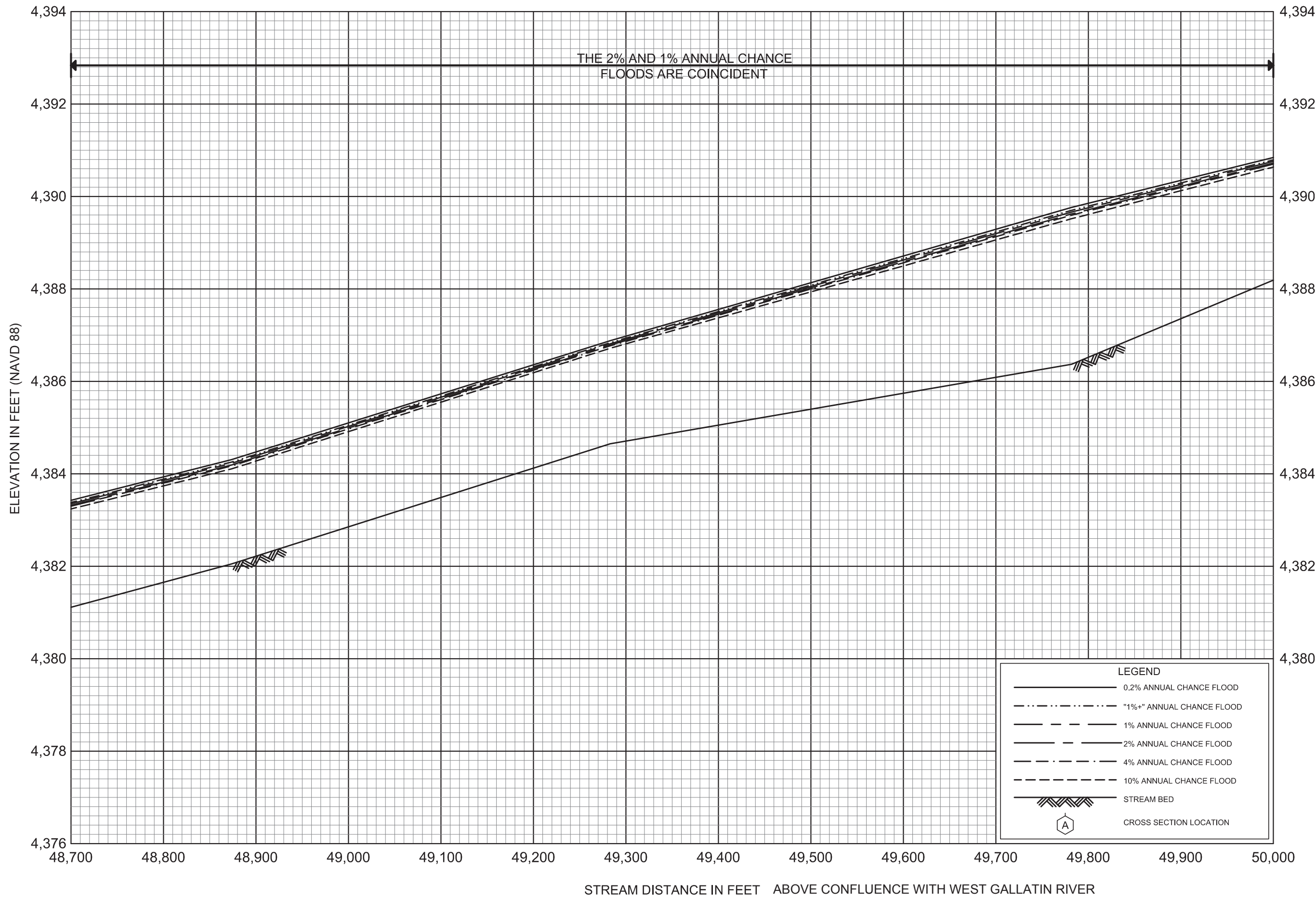
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FLOOD PROFILES  
BAKER CREEK

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GALLATIN COUNTY, MT  
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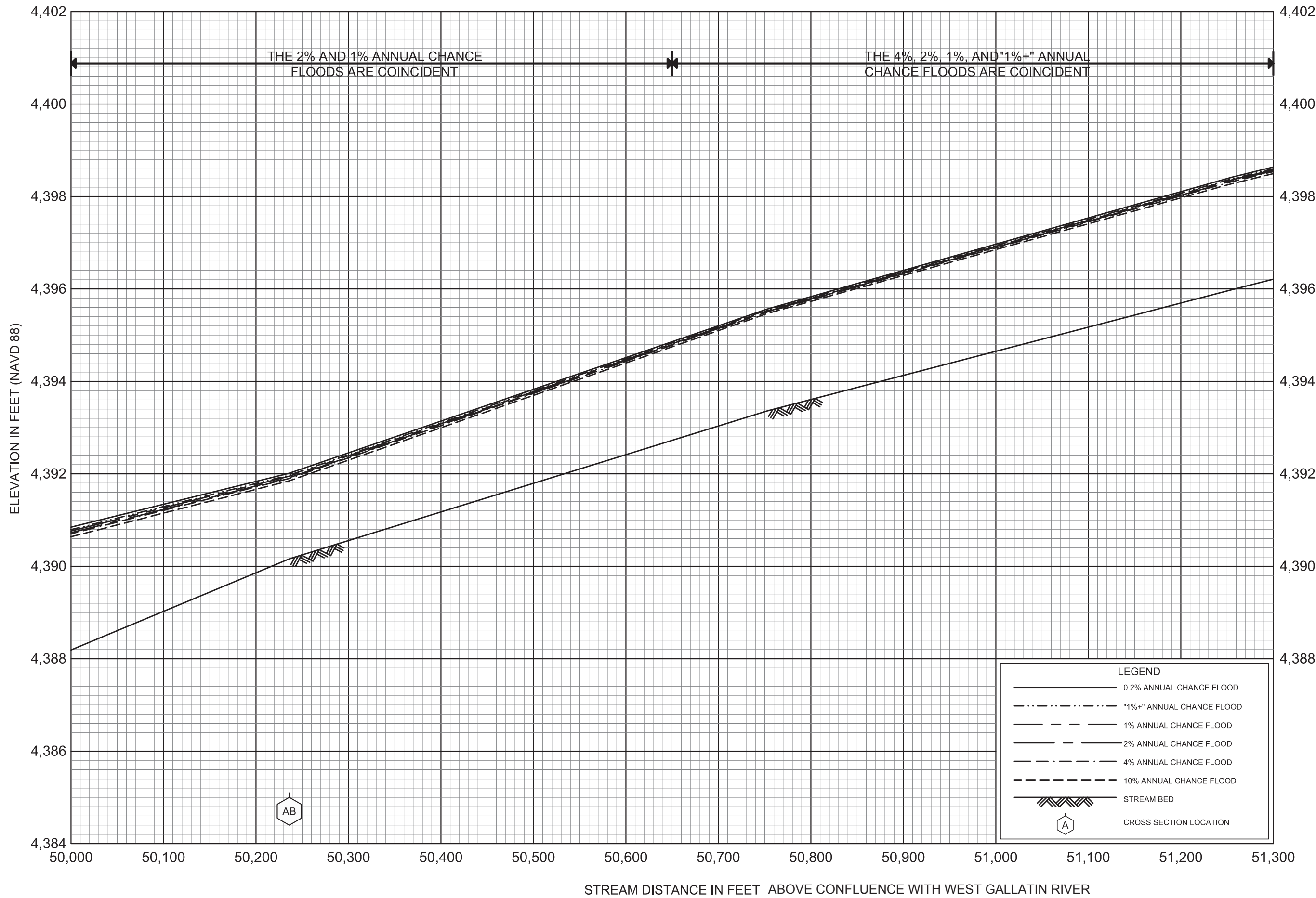




FLOOD PROFILES  
BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY  
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

036P



LEGEND	
	0.2% ANNUAL CHANCE FLOOD
	"1%+" ANNUAL CHANCE FLOOD
	1% ANNUAL CHANCE FLOOD
	2% ANNUAL CHANCE FLOOD
	4% ANNUAL CHANCE FLOOD
	10% ANNUAL CHANCE FLOOD
	STREAM BED
	CROSS SECTION LOCATION

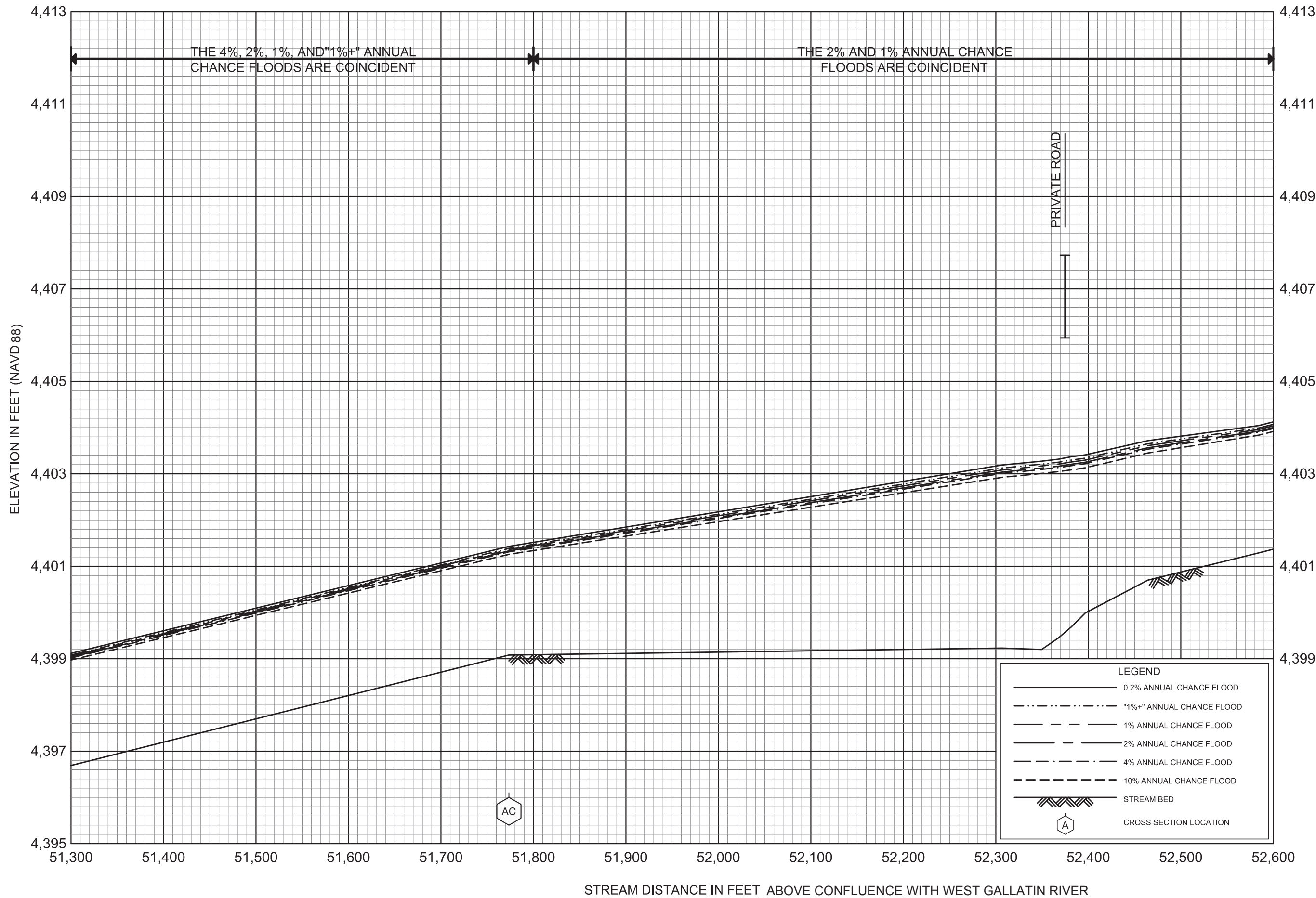
FLOOD PROFILES

BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

037P

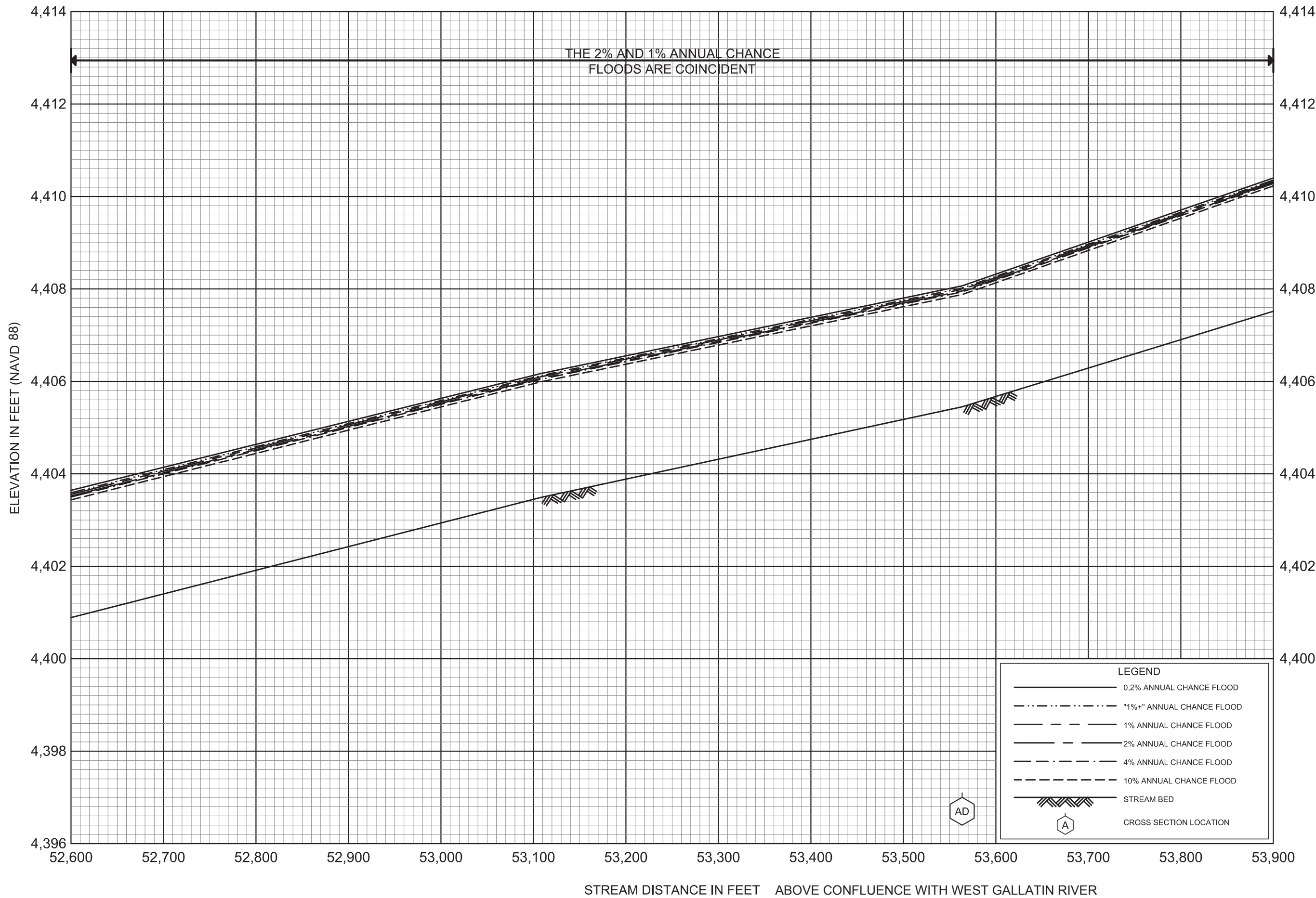


FLOOD PROFILES  
BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY  
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS

038P

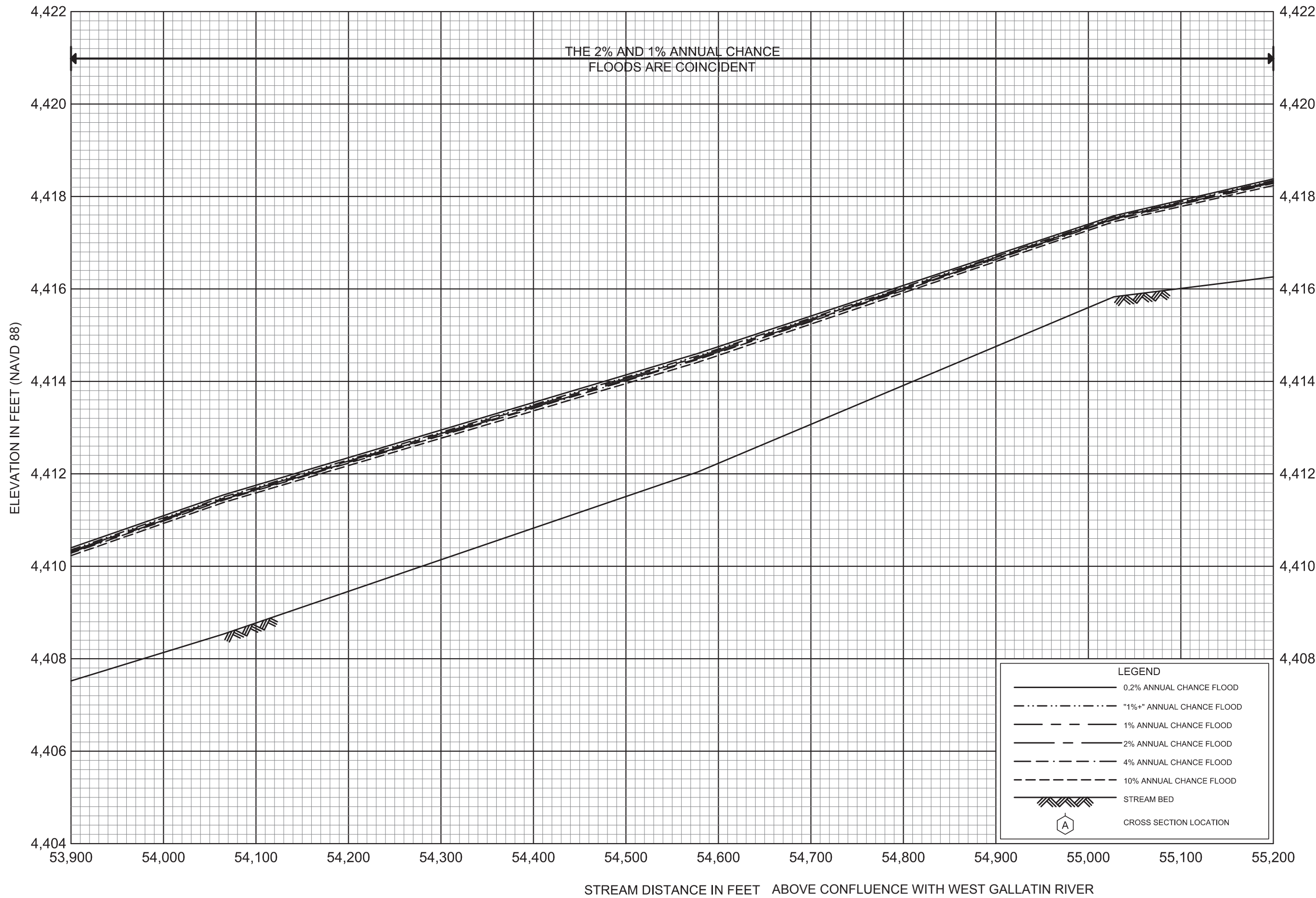




FLOOD PROFILES  
BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY  
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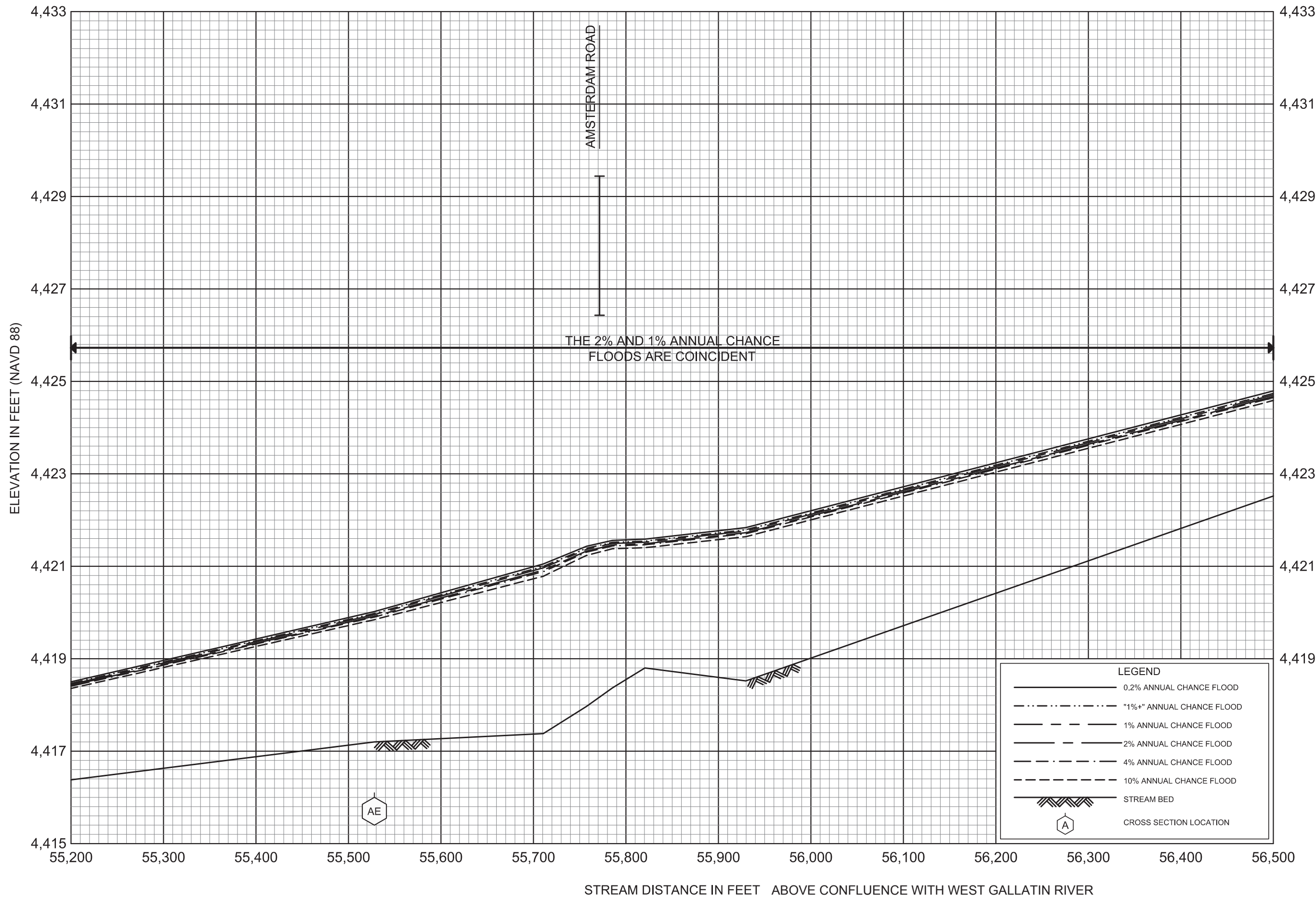
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FLOOD PROFILES  
BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY  
GALLATIN COUNTY, MT  
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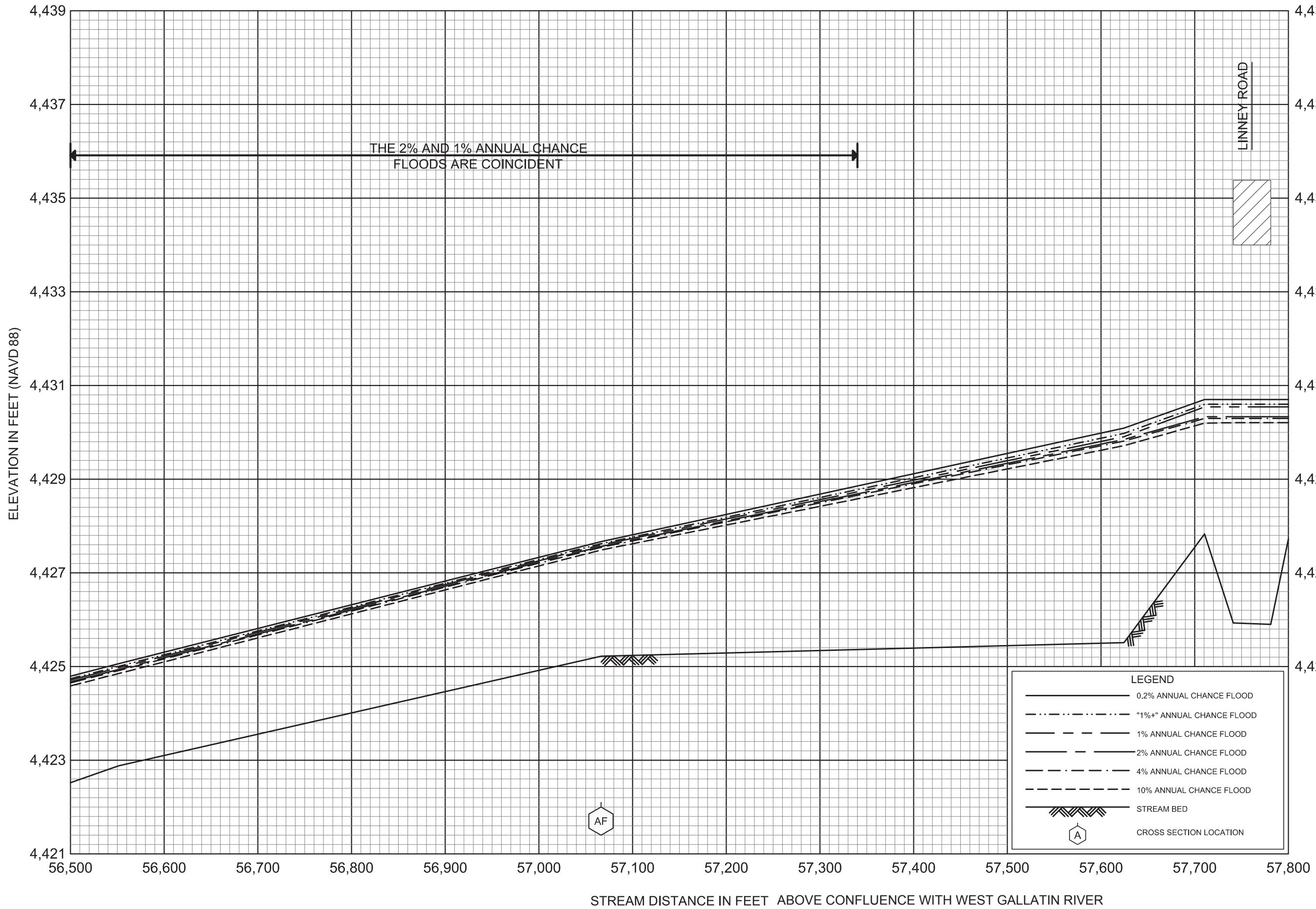


FLOOD PROFILES

BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

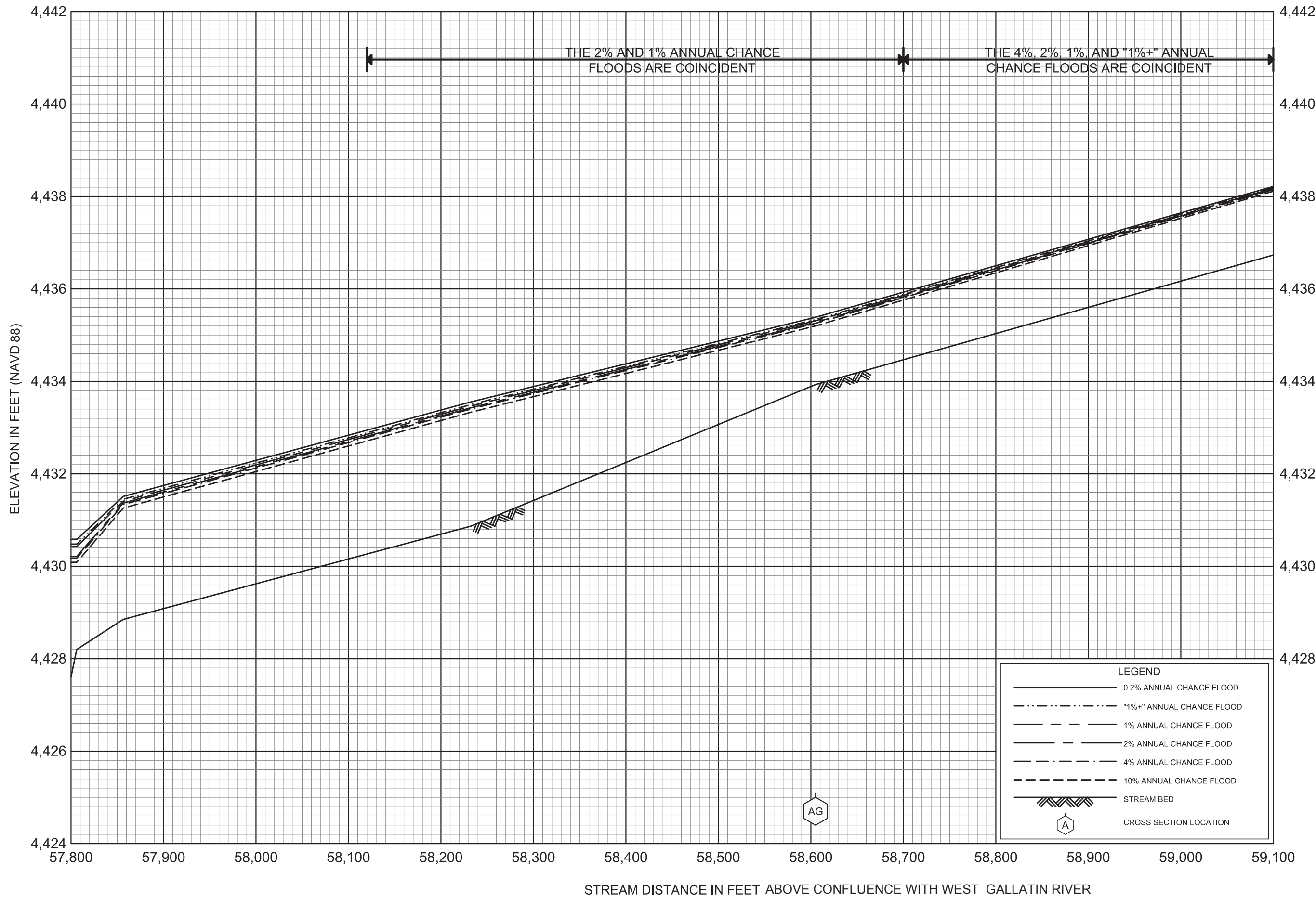
GALLATIN COUNTY, MT  
AND INCORPORATED AREAS



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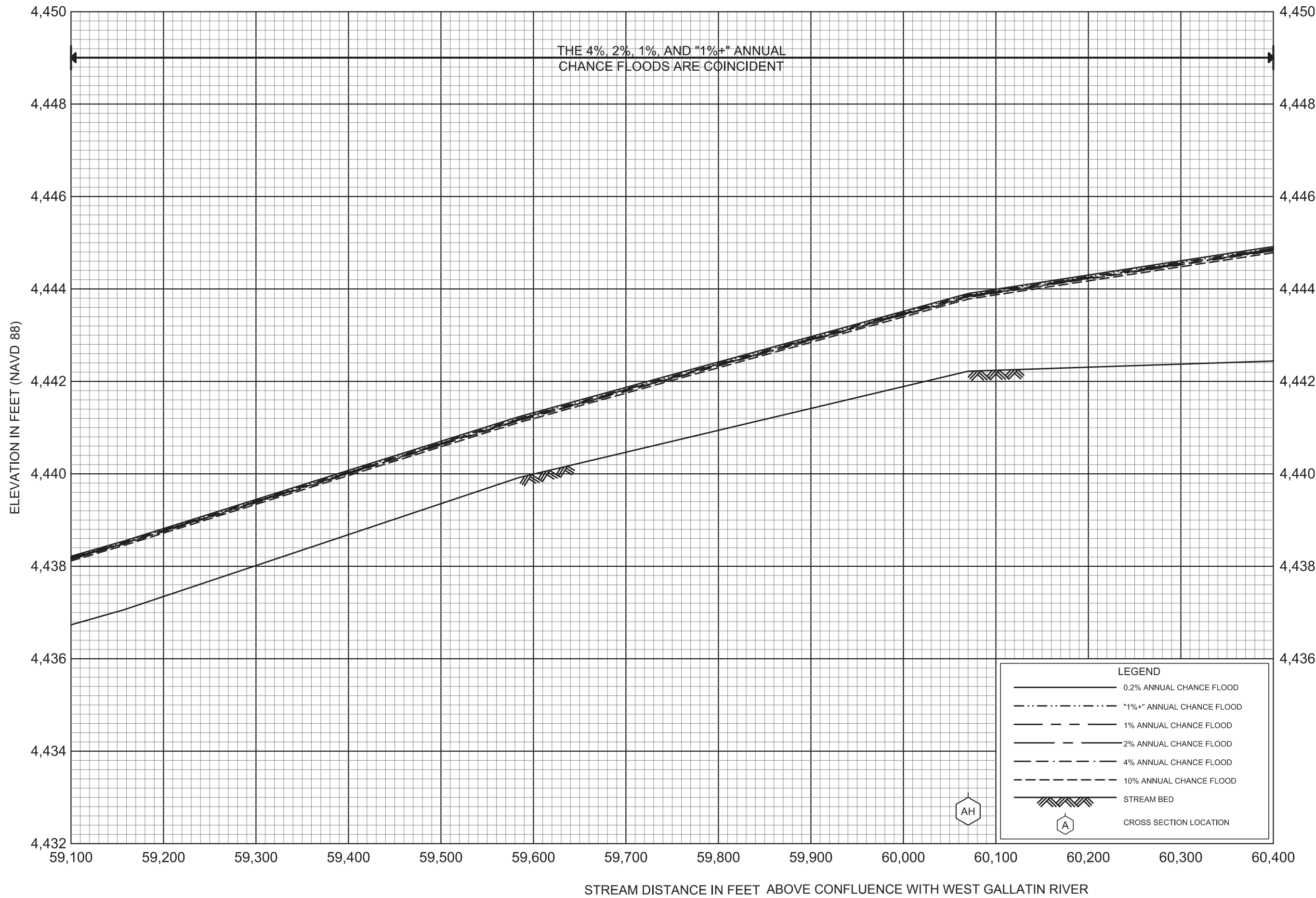


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BAKER CREEK

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**LEGEND**

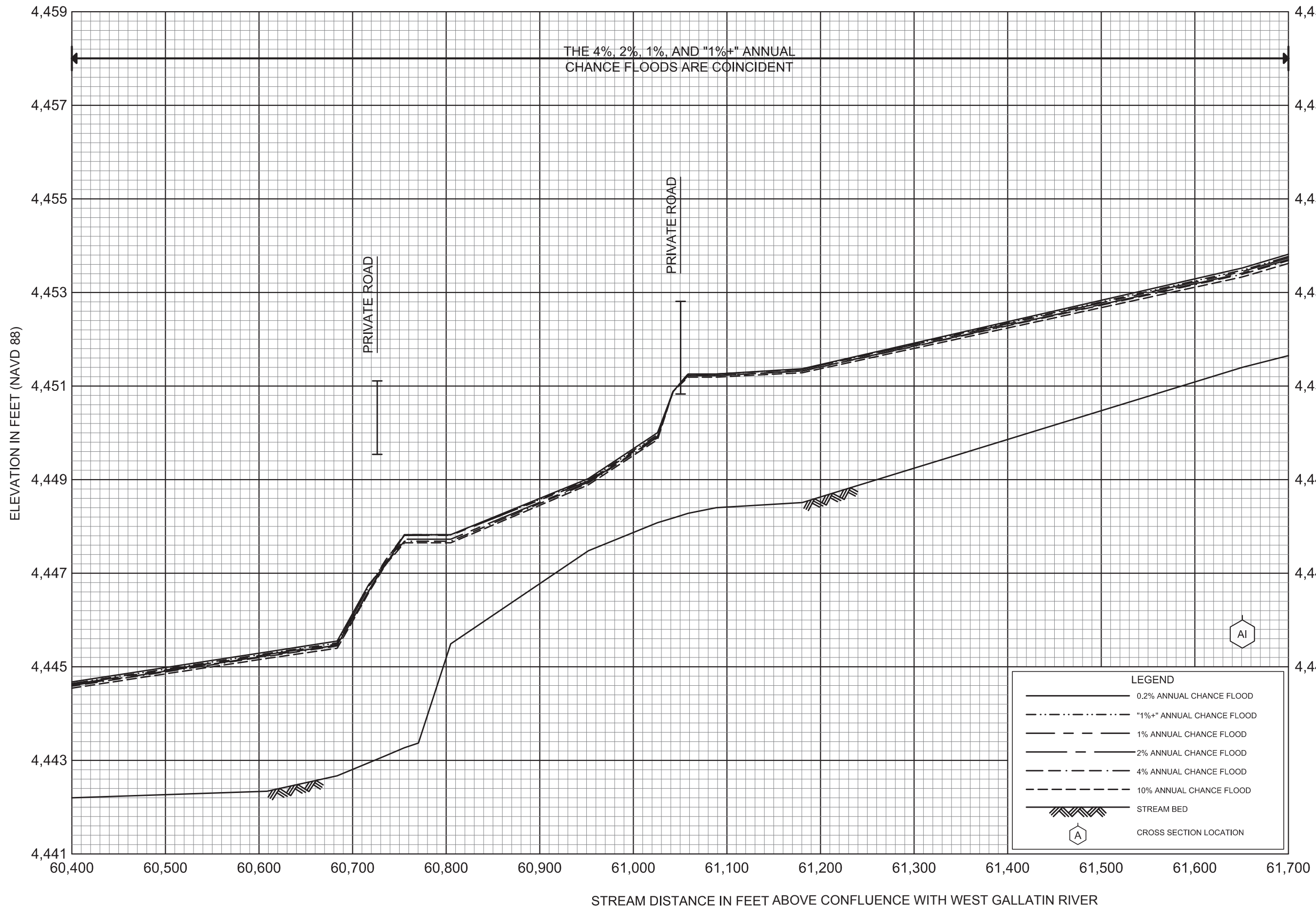
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FLOOD PROFILES  
BAKER CREEK

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GALLATIN COUNTY, MT  
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044P



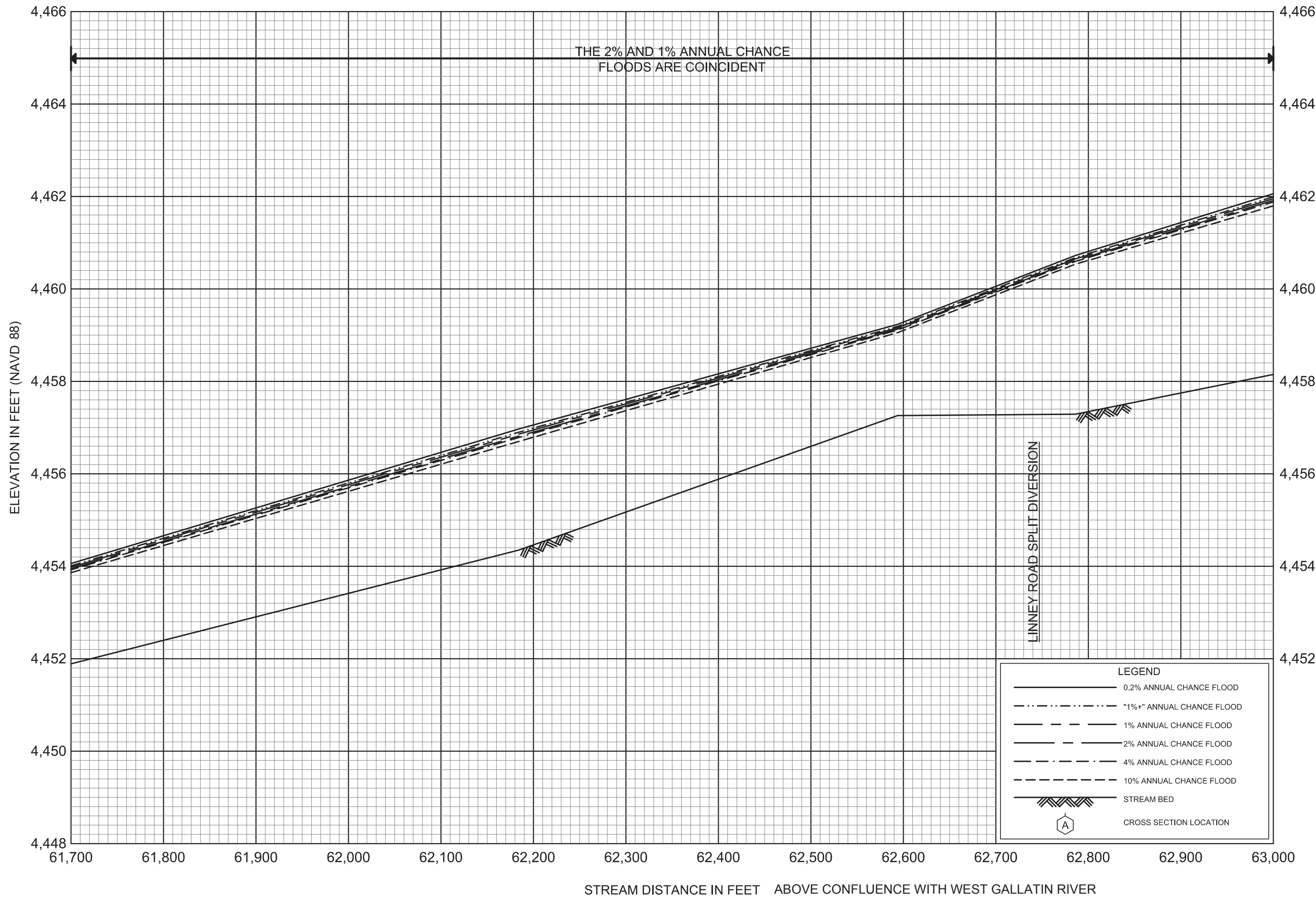
FLOOD PROFILES

BAKER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

GALLATIN COUNTY, MT  
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045P



FLOOD PROFILES

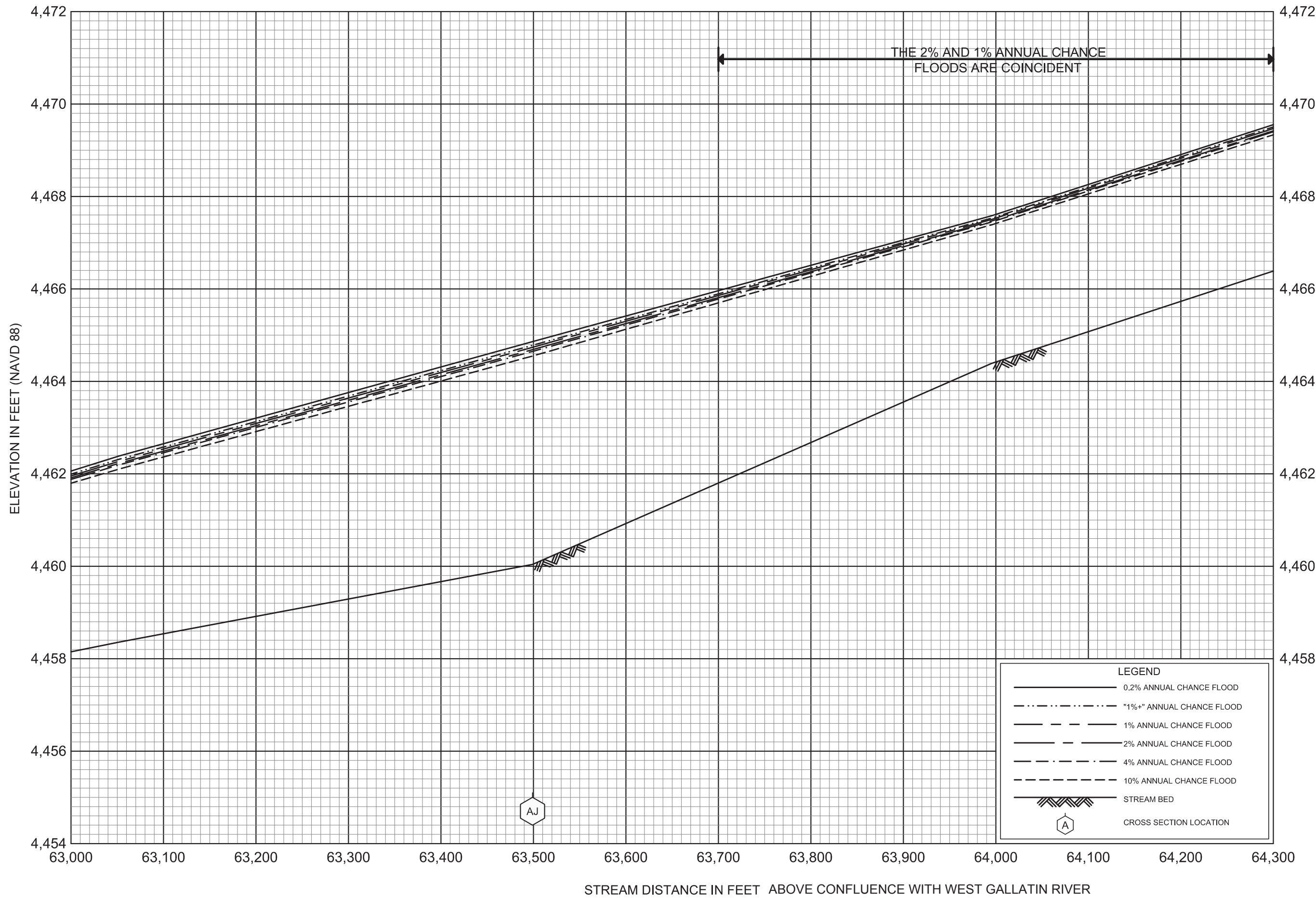
BAKER CREEK

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GALLATIN COUNTY, MT  
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046P



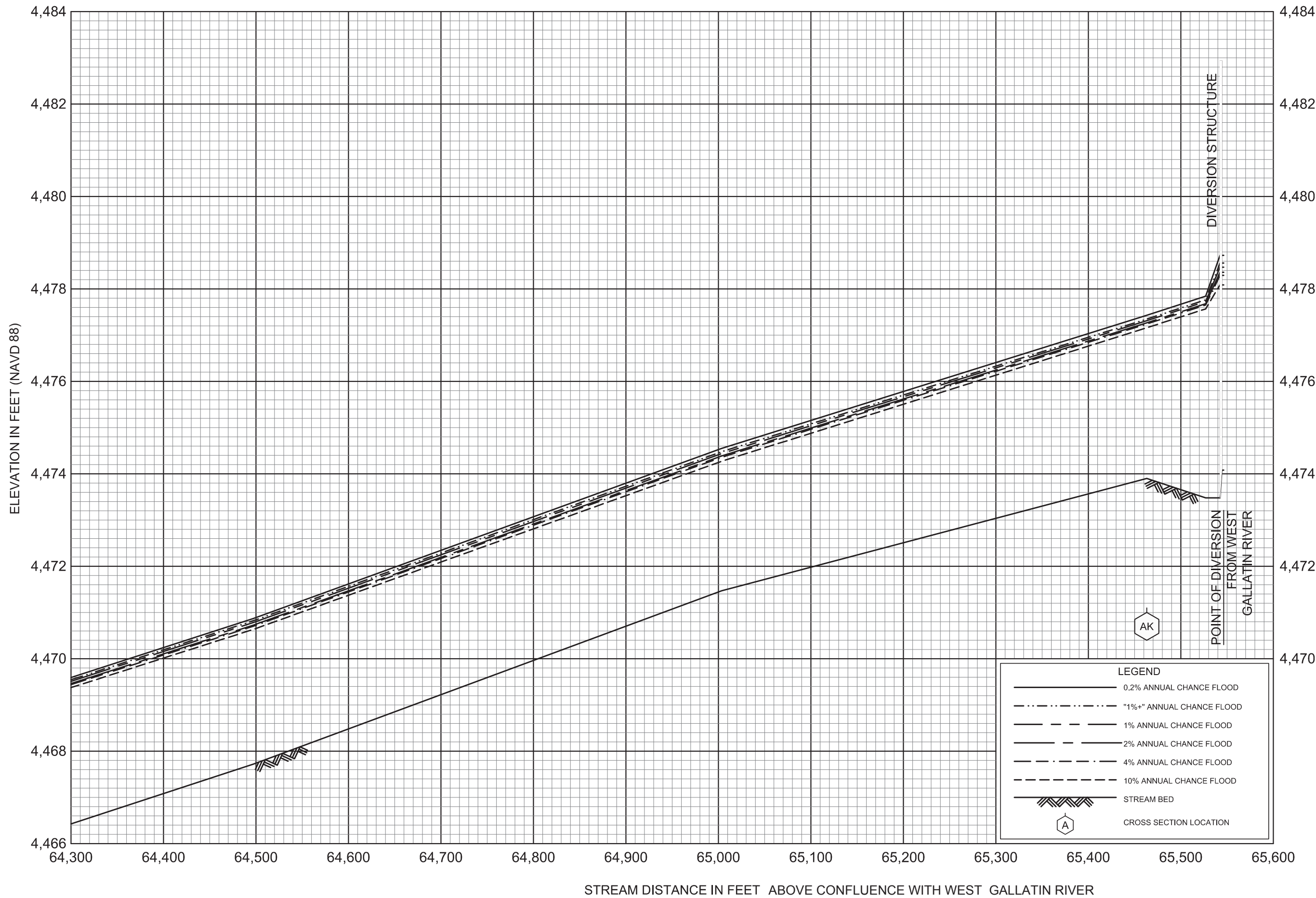


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**FLOOD PROFILES  
BAKER CREEK**

FEDERAL EMERGENCY MANAGEMENT AGENCY  
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