



**US Army Corps
of Engineers**

Southwestern Division
Tulsa District

APPENDIX B

Water Management Analysis Report
Aerial Photographs of Flooded Areas
and Flood Profiles

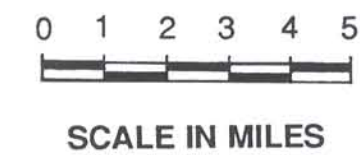
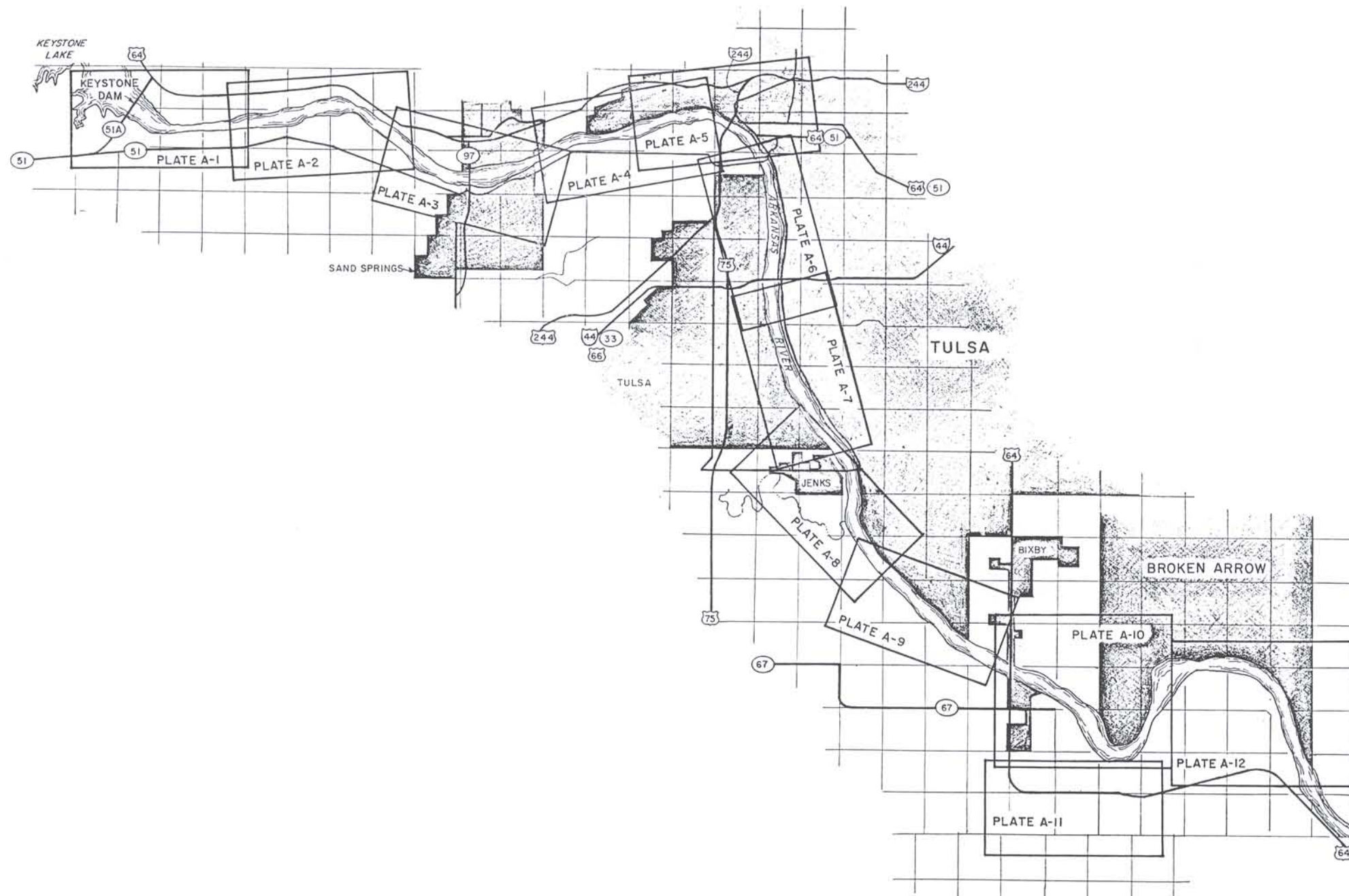
TABLE OF CONTENTS

Plate A	Index Map
Plates A-1 thru A-12	Arkansas River - Keystone Dam to Broken Arrow Area
Plates A-1P thru A-10P & A-12P	Flood Profiles
Plate B	Index Map
Plates B-1 thru B-4	Arkansas River - Muskogee Three Forks Area
Plates B-1P thru B-4P	Flood Profiles
Plate C	Index Map
Plates C-1 thru C-3	Grand (Neosho) River - Miami Area
Plates C-1P thru C-3P	Flood Profiles
Plate D	Index Map
Plates D-1 thru D-3	Caney River - Bartlesville Area
Plates D-1P thru D-3P	Flood Profiles

INTRODUCTION

On October 5-6, 1986, color aerial photographs were taken of flooded areas along the Arkansas, Caney, and Grand (Neosho) Rivers in northeastern Oklahoma. Photographs of flooding in urban areas of Tulsa, Washington, Ottawa, and Muskogee Counties, Oklahoma, are included as plates in this appendix. Data on the amount of flow in the streams at the time of the photographs are shown on the plates. Also shown is the maximum flow that occurred during the flood.

Immediately after the flood, high watermarks were documented along the Arkansas, Caney, and Grand (Neosho) Rivers. Surveyed elevations of the high watermarks were used to prepare flood profiles which are shown on plates in this appendix. Also shown for comparison are the 100- and 500-year flood profiles, where available, as determined by the Federal Emergency Management Agency in flood insurance studies.

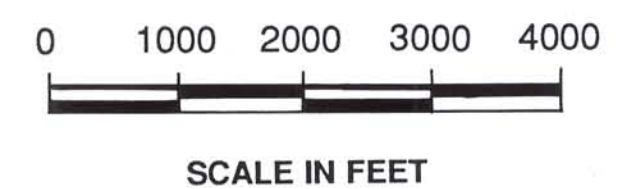


U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT
 INDEX MAP
 FLOODED AREAS
 OCTOBER 1986
ARKANSAS RIVER
 KEYSTONE DAM TO
 BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987

PLATE A

Time of Photo - 11:20 a.m., 10/5/86
Flow at Time of Photo - 260,000 cfs
Maximum Flow During Flood - 300,000 cfs (10/4/86)
cfs = cubic feet per second

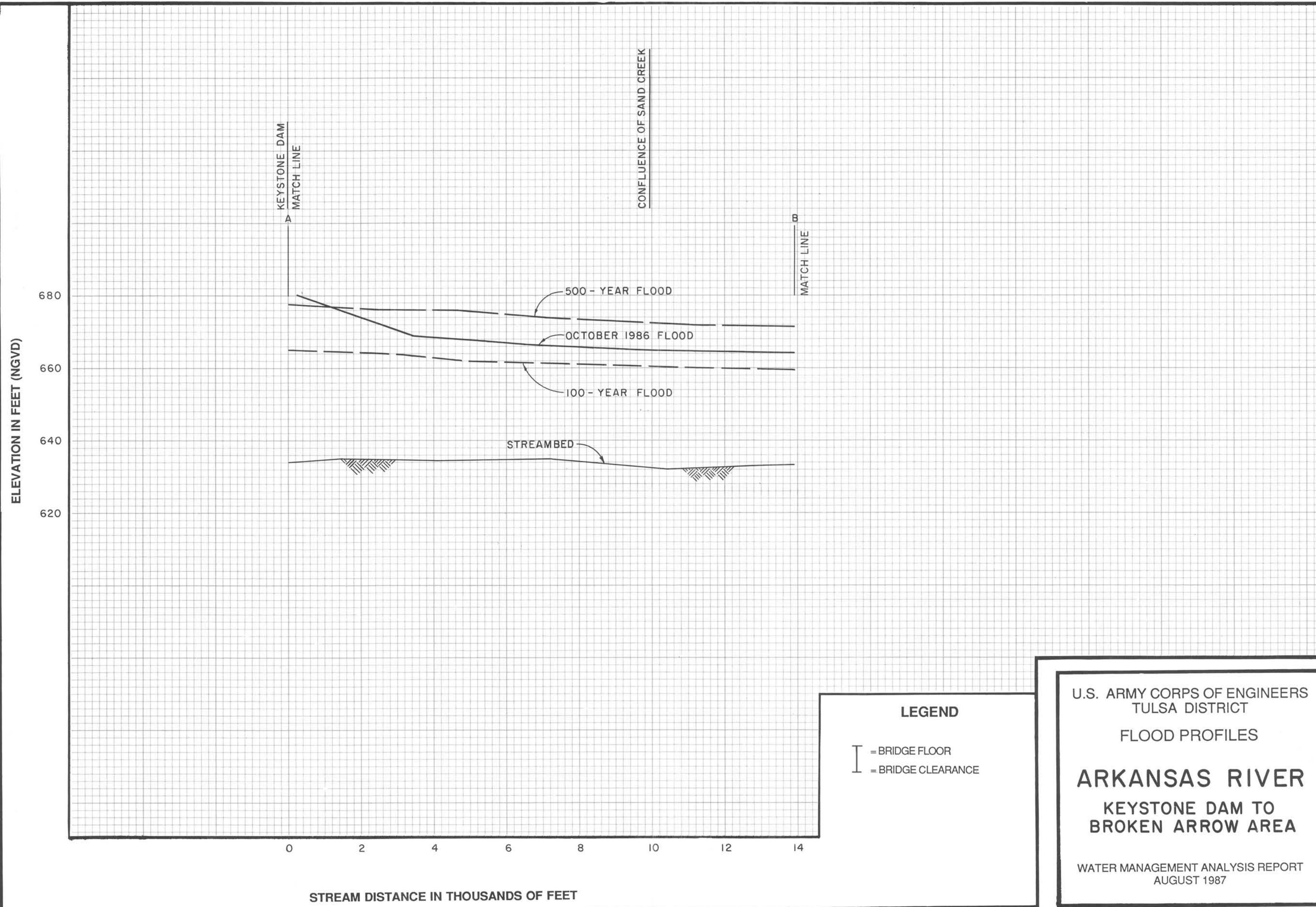


U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOODED AREAS
OCTOBER 1986

ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987

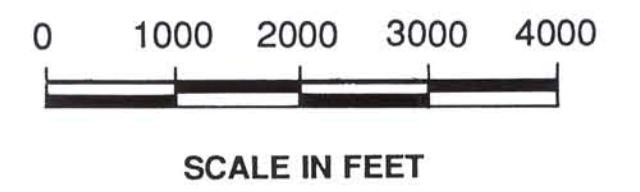


U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT
FLOOD PROFILES

ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987

Time of Photo - 11:20 a.m., 10/5/86
Flow at Time of Photo - 260,000 cfs
Maximum Flow During Flood - 300,000 cfs (10/4/86)
cfs = cubic feet per second

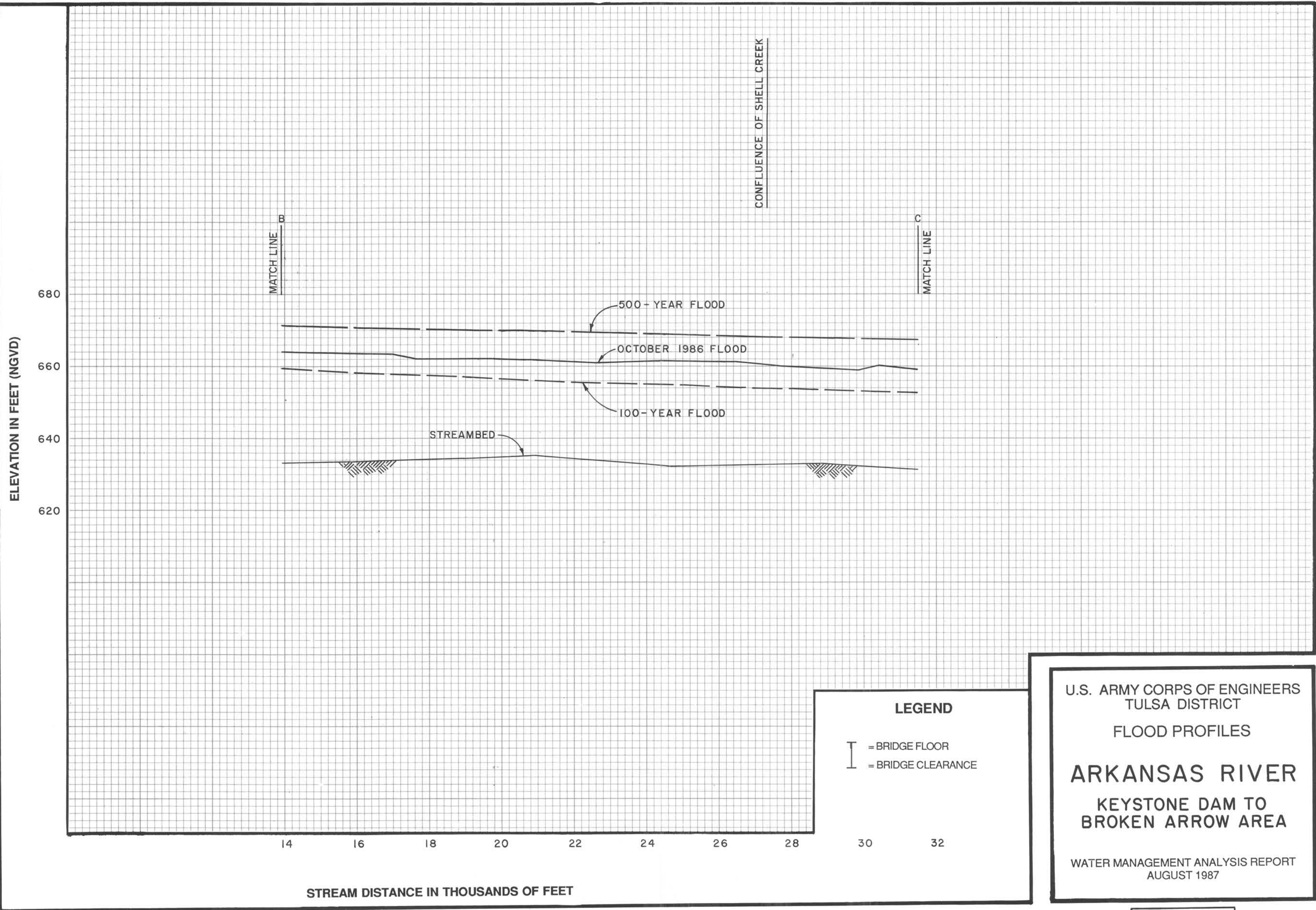


U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOODED AREAS
OCTOBER 1986

ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987



LEGEND

- ⌋ = BRIDGE FLOOR
- ⌋ = BRIDGE CLEARANCE

U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOOD PROFILES

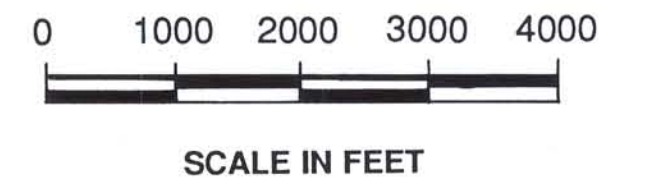
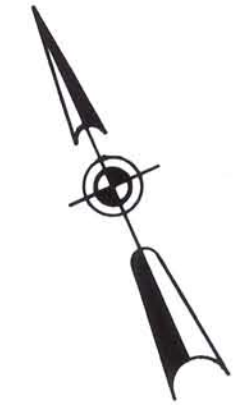
ARKANSAS RIVER

KEYSTONE DAM TO
BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987



Time of Photo - 11:20 a.m., 10/5/86
 Flow at Time of Photo - 260,000 cfs
 Maximum Flow During Flood - 300,000 cfs (10/4/86)
 cfs = cubic feet per second

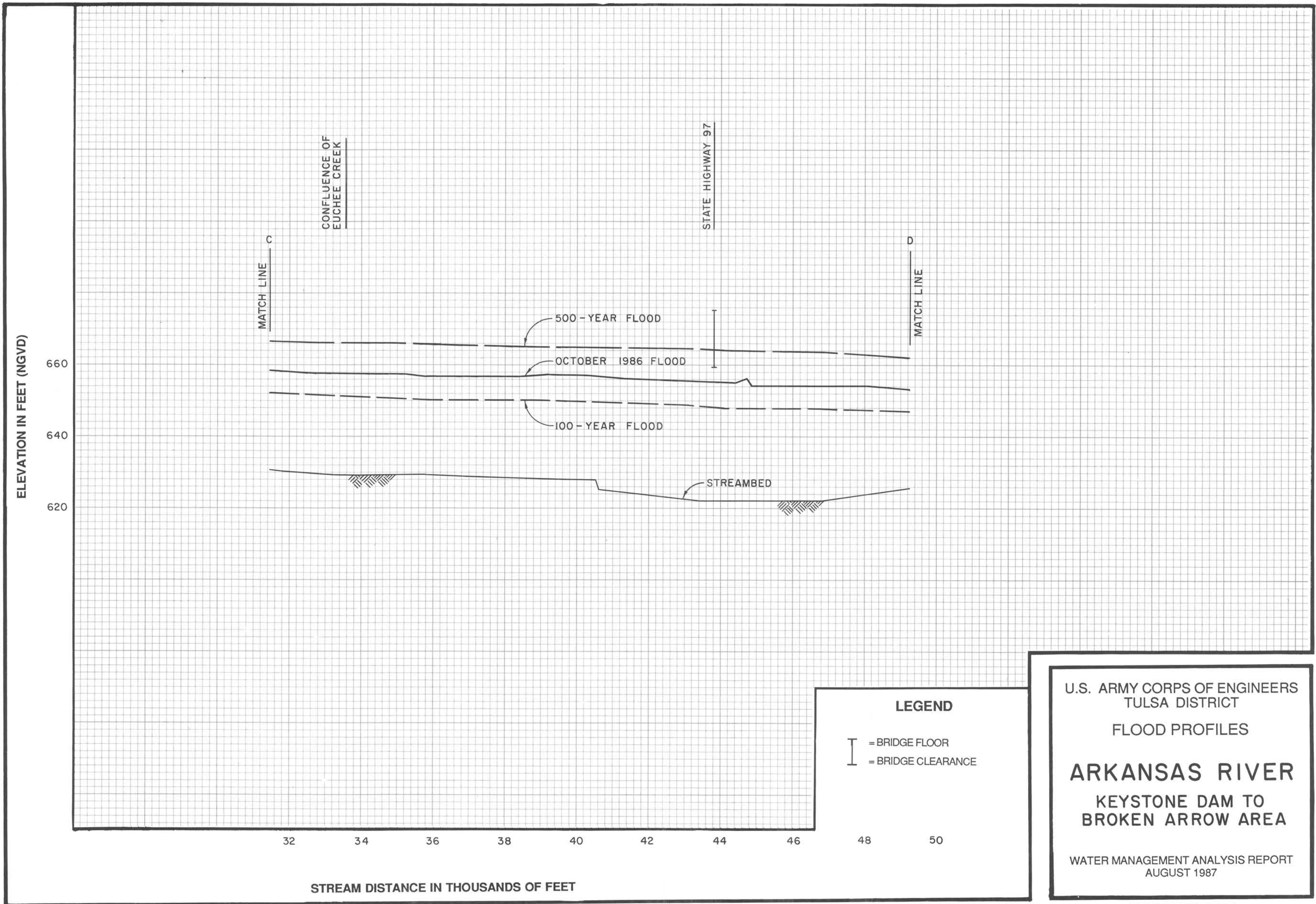


U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

FLOODED AREAS
 OCTOBER 1986

ARKANSAS RIVER
 KEYSTONE DAM TO
 BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987



LEGEND

= BRIDGE FLOOR
 = BRIDGE CLEARANCE

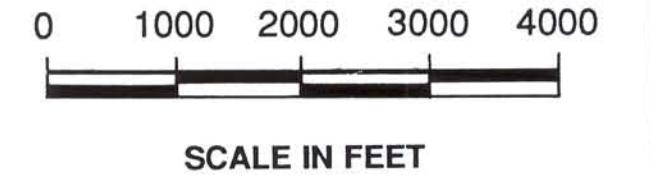
48 50

U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT
 FLOOD PROFILES

ARKANSAS RIVER
 KEYSTONE DAM TO
 BROKEN ARROW AREA

 WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987

Time of Photo - 11:20 a.m., 10/5/86
Flow at Time of Photo - 260,000 cfs
Maximum Flow During Flood - 300,000 cfs (10/4/86)
cfs = cubic feet per second



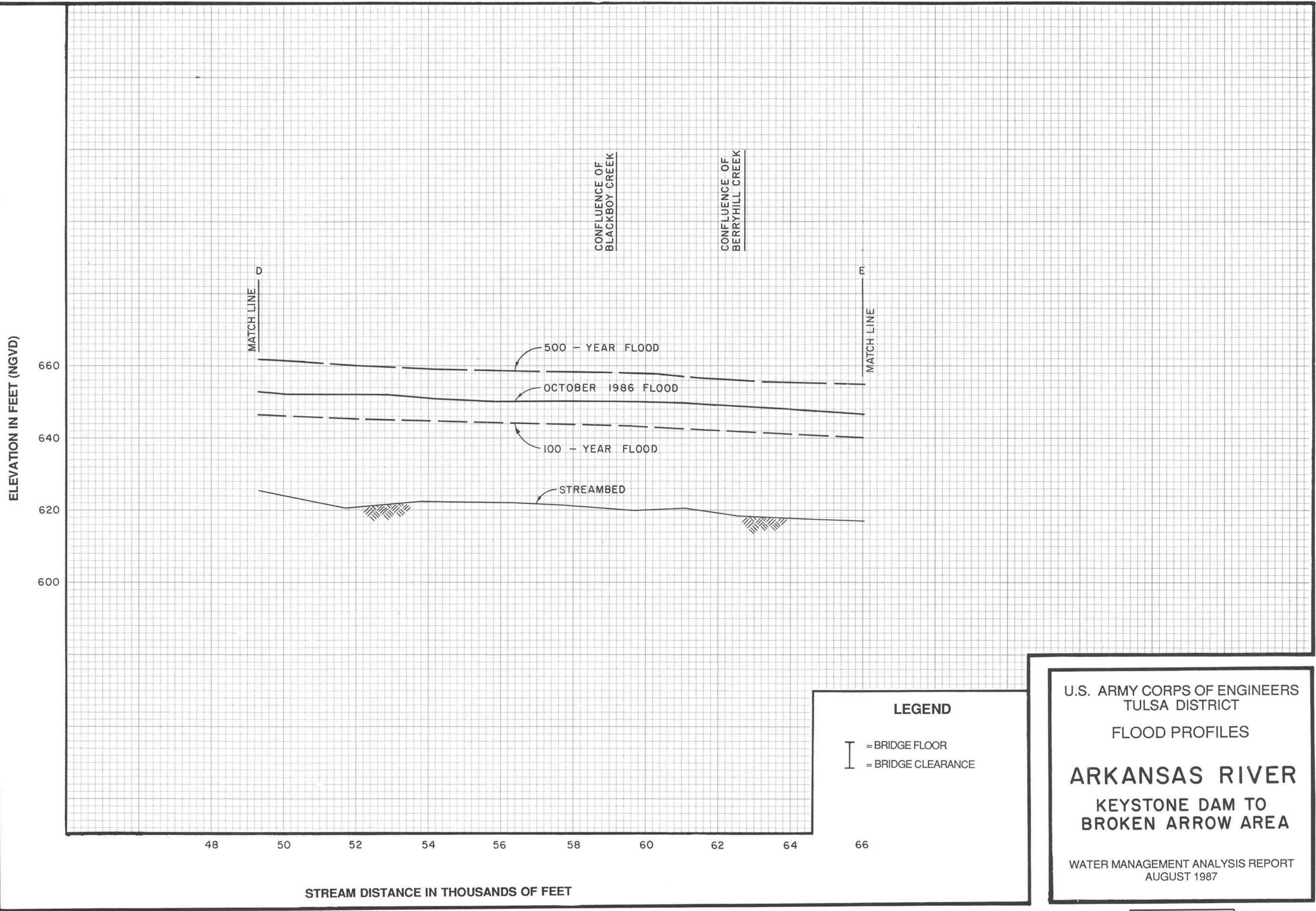
U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOODED AREAS
OCTOBER 1986

ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987



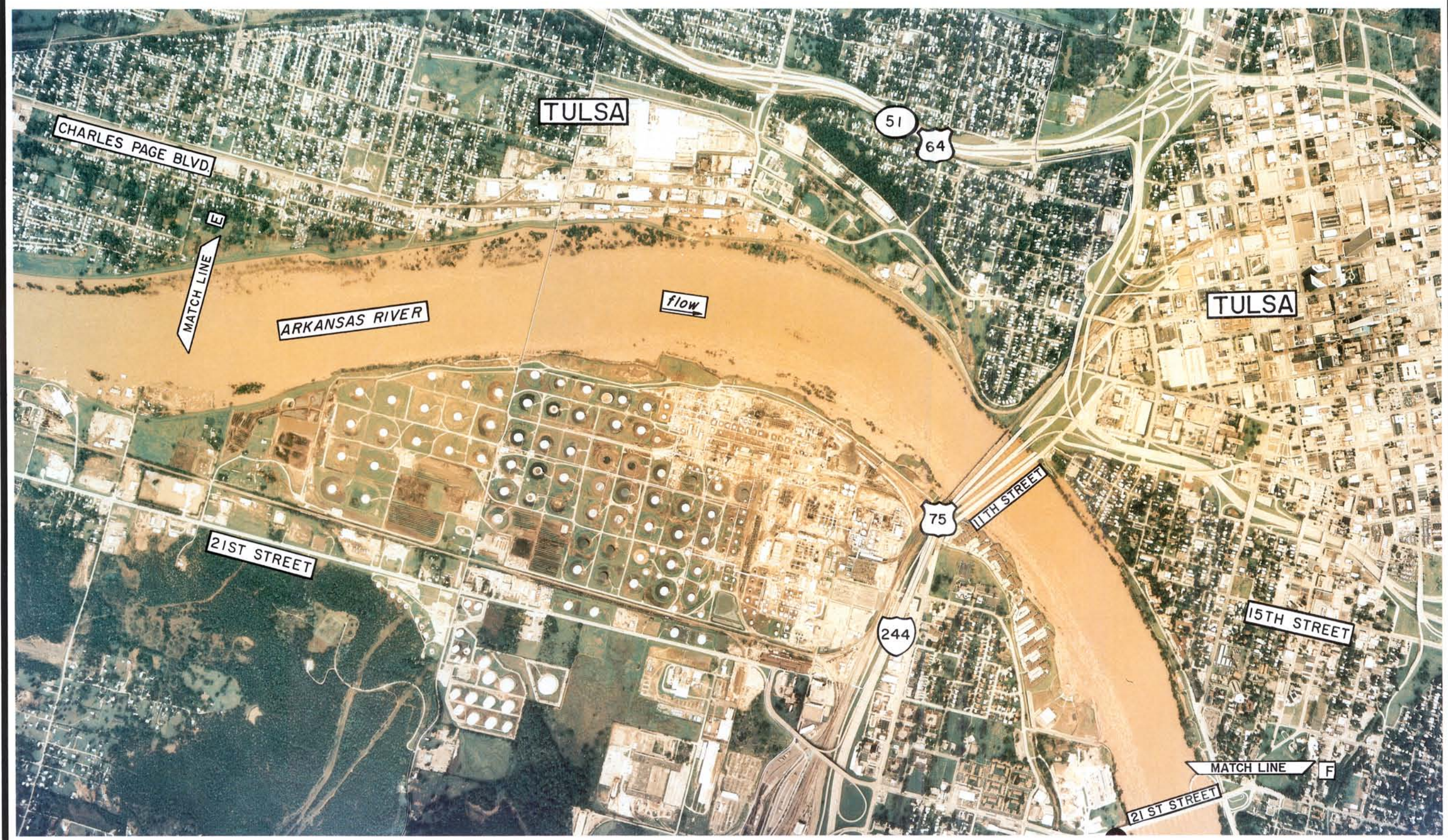
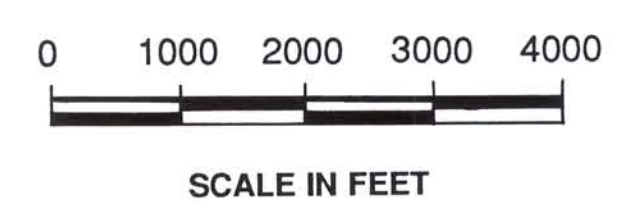


U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT
 FLOOD PROFILES

ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987

Time of Photo - 11:50 a.m., 10/5/86
Flow at Time of Photo - 272,000 cfs
Maximum Flow During Flood 306,000 cfs (10/4/86)
cfs = cubic feet per second



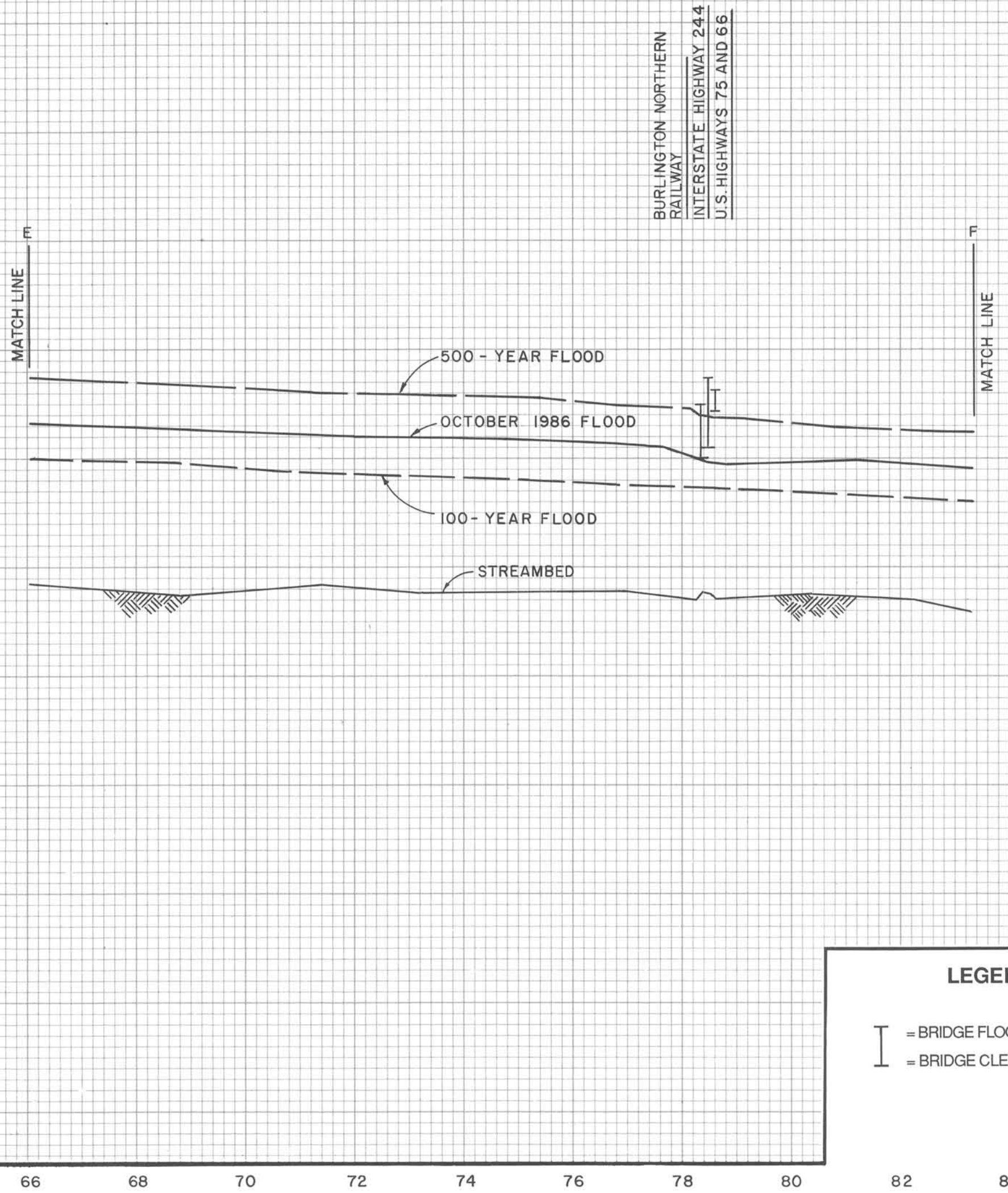
U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOODED AREAS
OCTOBER 1986

ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987

ELEVATION IN FEET (NGVD)



BURLINGTON NORTHERN RAILWAY
INTERSTATE HIGHWAY 244
U.S. HIGHWAYS 75 AND 66

LEGEND

- = BRIDGE FLOOR
- = BRIDGE CLEARANCE

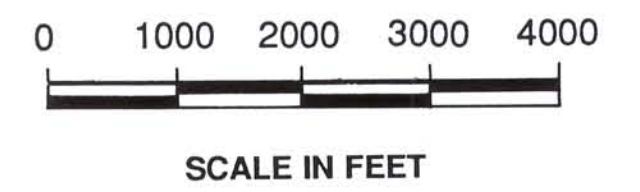
U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOOD PROFILES

**ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA**

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987

Time of Photo - 11:50 a.m., 10/5/86
Flow at Time of Photo - 272,000 cfs
Maximum Flow During Flood 306,000 cfs (10/4/86)
cfs = cubic feet per second

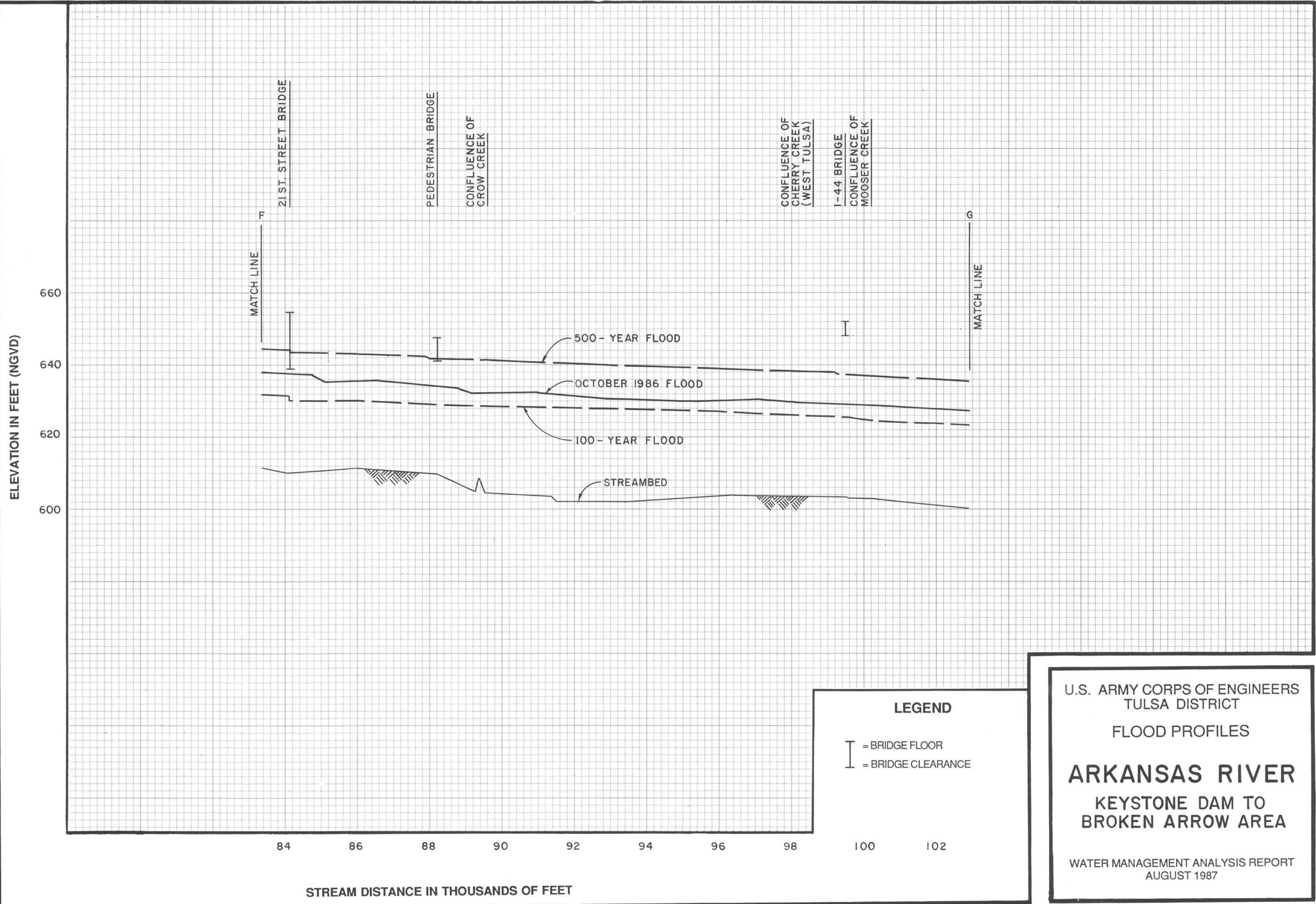


U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOODED AREAS
OCTOBER 1986

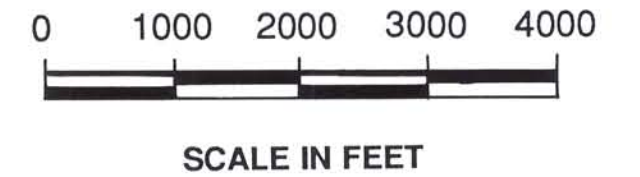
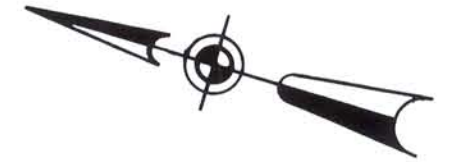
ARKANSAS RIVER KEYSTONE DAM TO BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987



U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT
 FLOOD PROFILES
ARKANSAS RIVER
 KEYSTONE DAM TO
 BROKEN ARROW AREA
 WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987

Time of Photo - 11:50 a.m., 10/5/86
Flow at Time of Photo - 272,000 cfs
Maximum Flow During Flood 306,000 cfs (10/4/86)
cfs = cubic feet per second



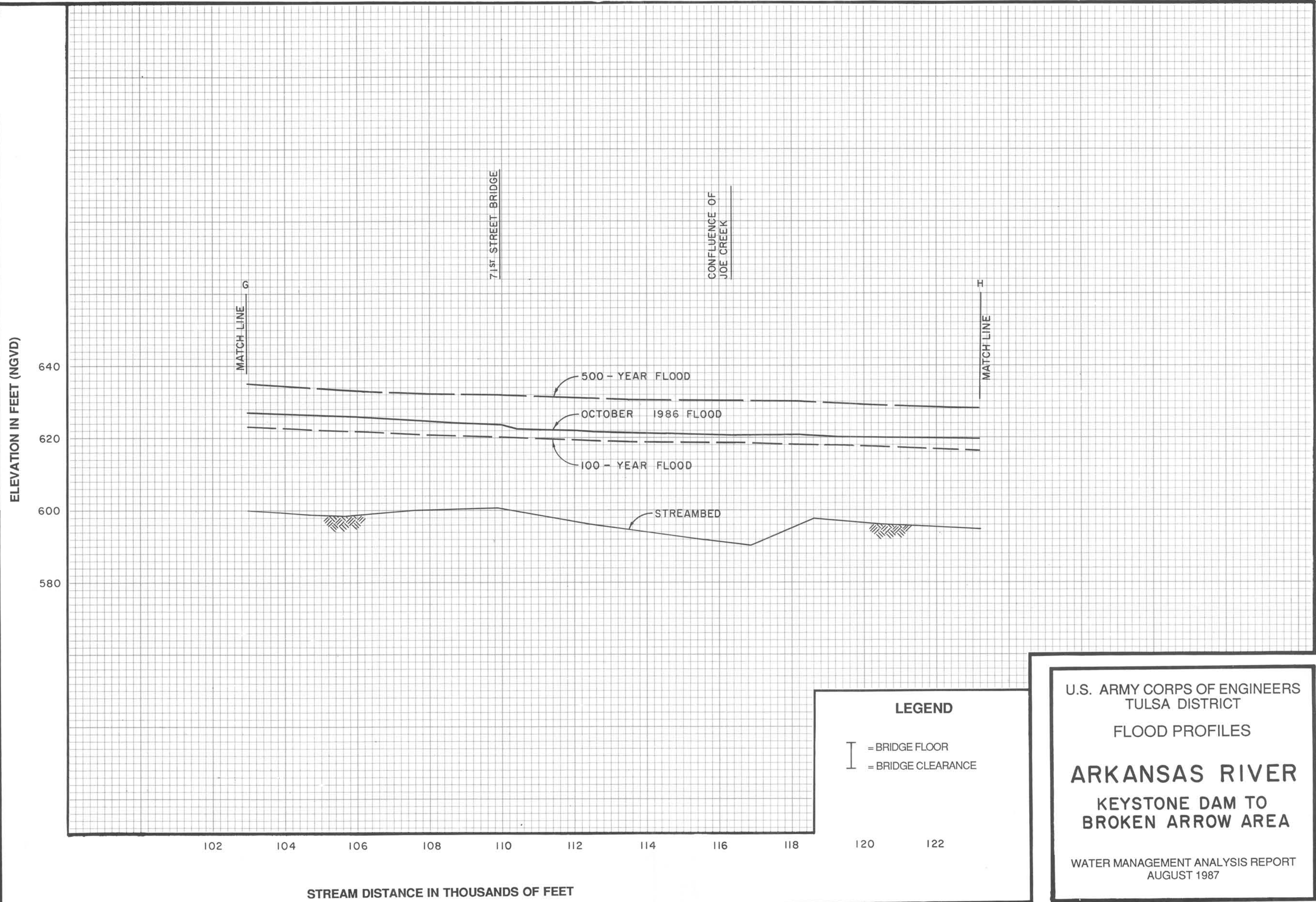
U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOODED AREAS
OCTOBER 1986

ARKANSAS RIVER

KEYSTONE DAM TO
BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987



LEGEND

= BRIDGE FLOOR
 = BRIDGE CLEARANCE

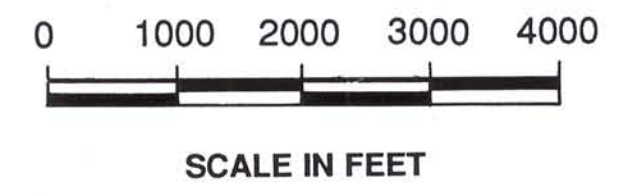
U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT
 FLOOD PROFILES

ARKANSAS RIVER
 KEYSTONE DAM TO
 BROKEN ARROW AREA

 WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987



Time of Photo - 11:50 a.m., 10/5/86
 Flow at Time of Photo - 272,000 cfs
 Maximum Flow During Flood 306,000 cfs (10/4/86)
 cfs = cubic feet per second

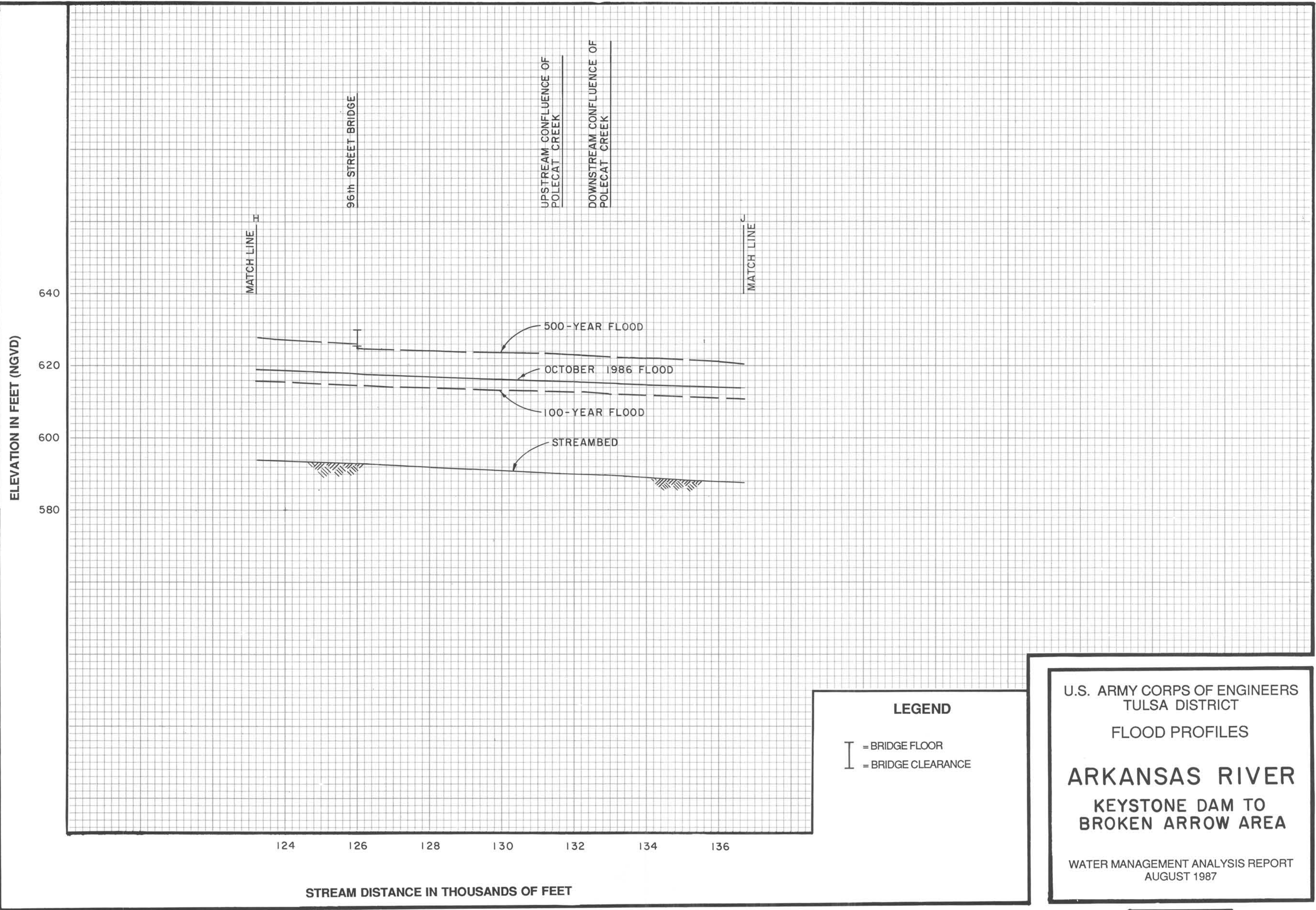


U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

FLOODED AREAS
 OCTOBER 1986

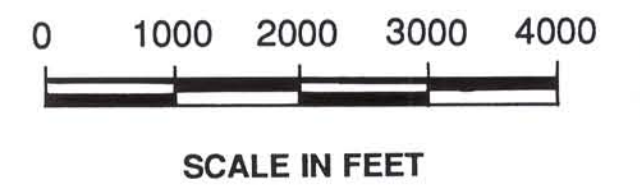
ARKANSAS RIVER
 KEYSTONE DAM TO
 BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987



U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT
 FLOOD PROFILES
ARKANSAS RIVER
 KEYSTONE DAM TO
 BROKEN ARROW AREA
 WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987

Time of Photo - 11:50 a.m., 10/5/86
Flow at Time of Photo - 272,000 cfs
Maximum Flow During Flood 306,000 cfs (10/4/86)
cfs = cubic feet per second

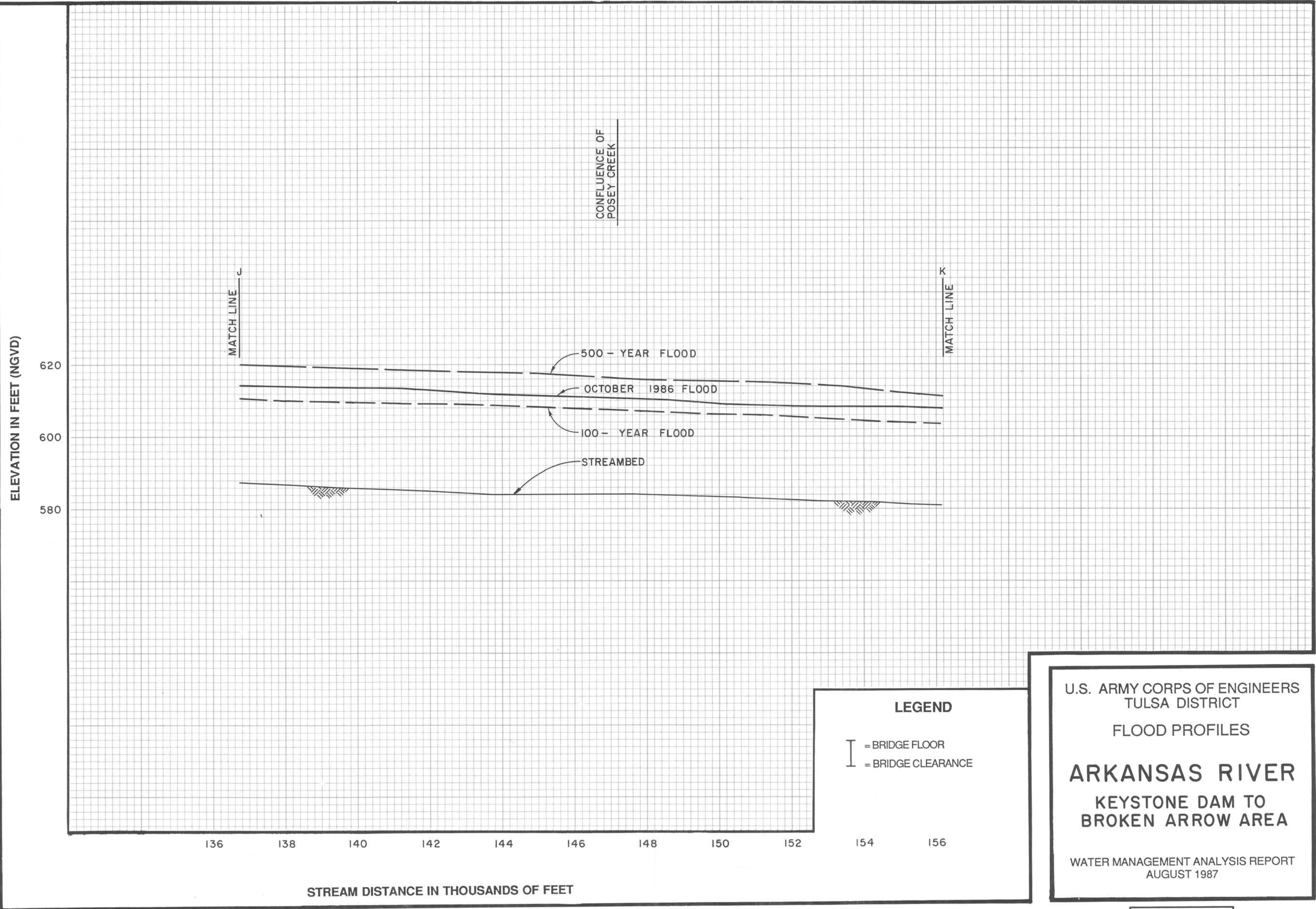


U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOODED AREAS
OCTOBER 1986

ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987



ELEVATION IN FEET (NGVD)

136 138 140 142 144 146 148 150 152 154 156

STREAM DISTANCE IN THOUSANDS OF FEET

CONFLUENCE OF
POSEY CREEK

MATCH LINE c

MATCH LINE k

500 - YEAR FLOOD

OCTOBER 1986 FLOOD

100 - YEAR FLOOD

STREAMBED

LEGEND

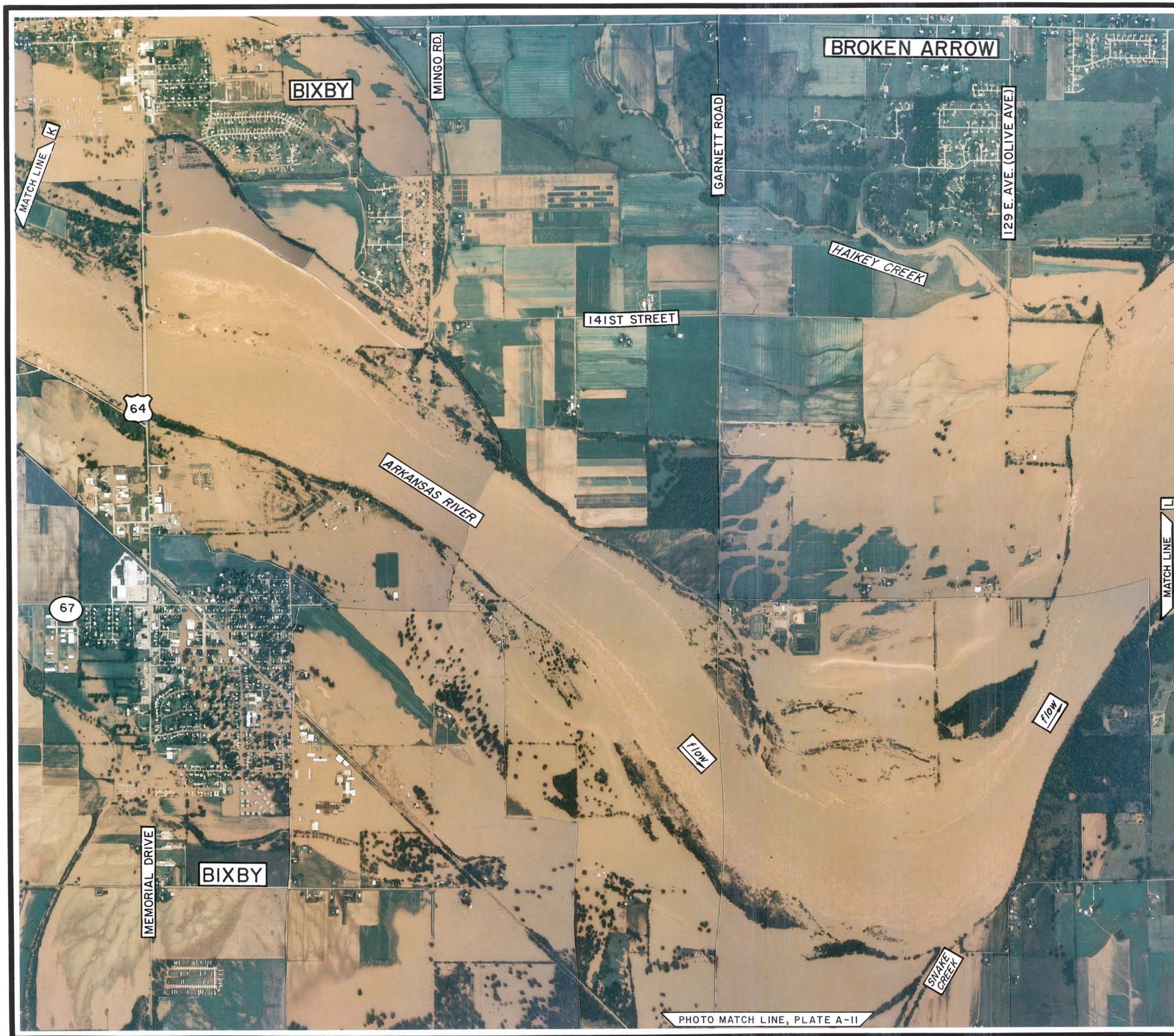
- ⌈ = BRIDGE FLOOR
- ⌋ = BRIDGE CLEARANCE

U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOOD PROFILES

**ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA**

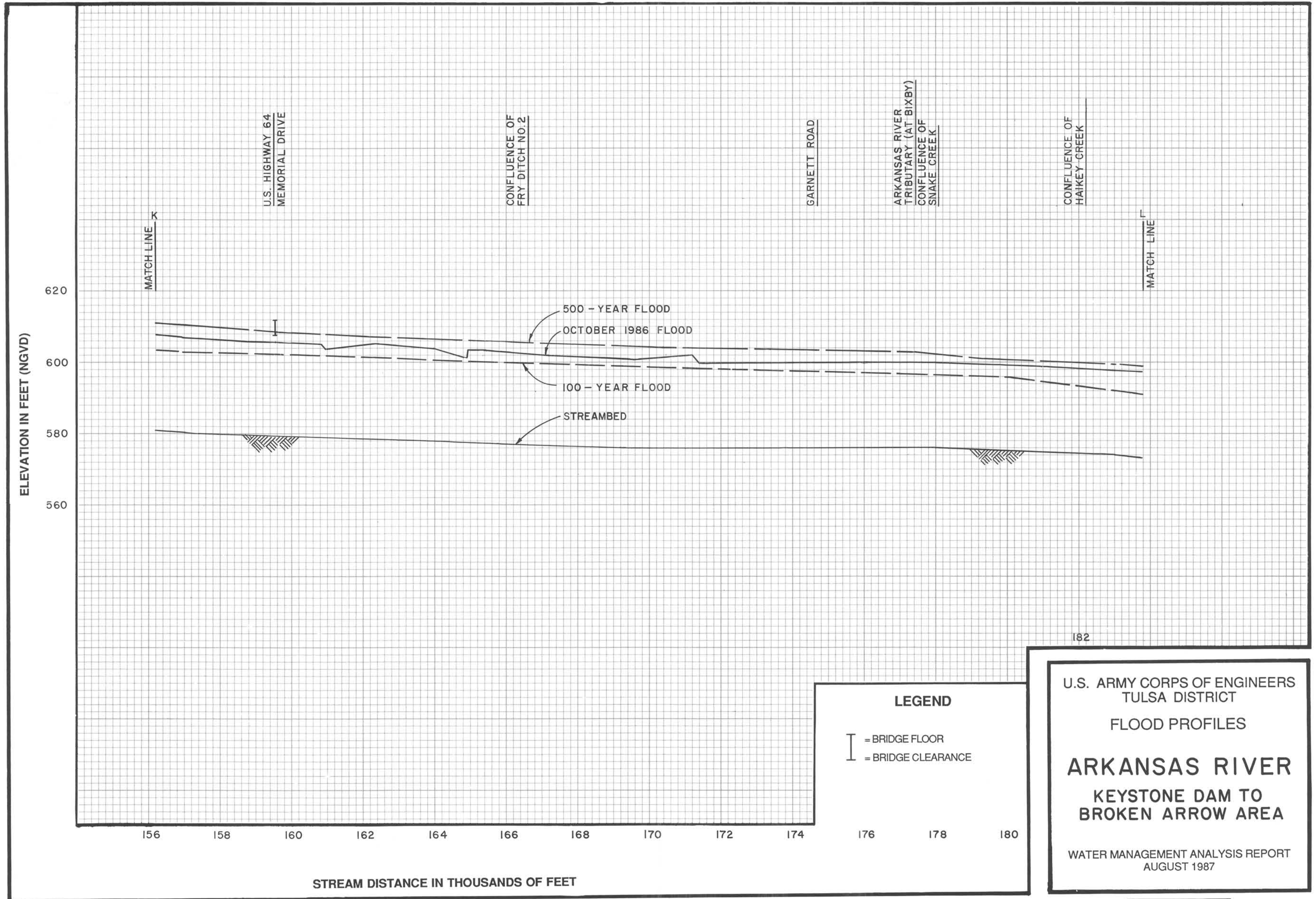
WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987



Time of Photo - 11:50 a.m., 10/5/86
 Flow at Time of Photo - 272,000 cfs
 Maximum Flow During Flood 306,000 cfs
 cfs = cubic feet per second (10/4/86)



U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT
 FLOODED AREAS
 OCTOBER 1986
ARKANSAS RIVER
 KEYSTONE DAM TO
 BROKEN ARROW AREA
 WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987



LEGEND

= BRIDGE FLOOR
 = BRIDGE CLEARANCE

182

U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

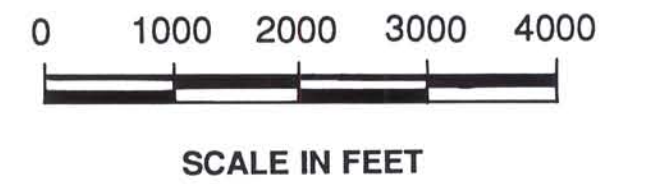
FLOOD PROFILES

ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987



Time of Photo - 11:50 a.m., 10/5/86
Flow at Time of Photo - 272,000 cfs
Maximum Flow During Flood 306,000 cfs (10/4/86)
cfs = cubic feet per second



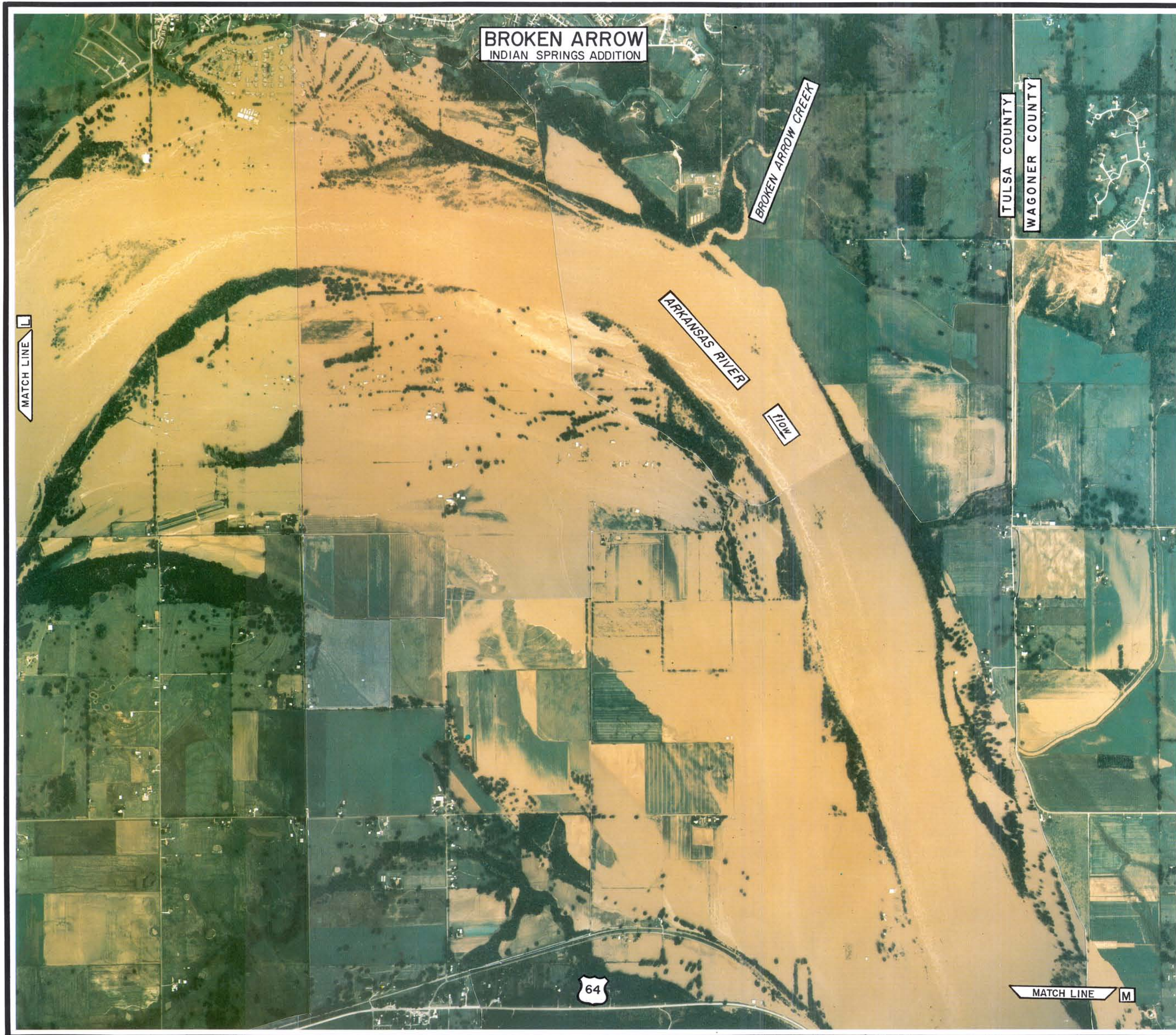
U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOODED AREAS
OCTOBER 1986

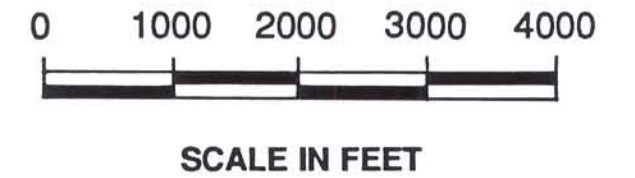
ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987

PLATE A-II



Time of Photo - 11:50 a.m., 10/5/86
 Flow at Time of Photo - 272,000 cfs
 Maximum Flow During Flood 306,000 cfs (10/4/86)
 cfs = cubic feet per second

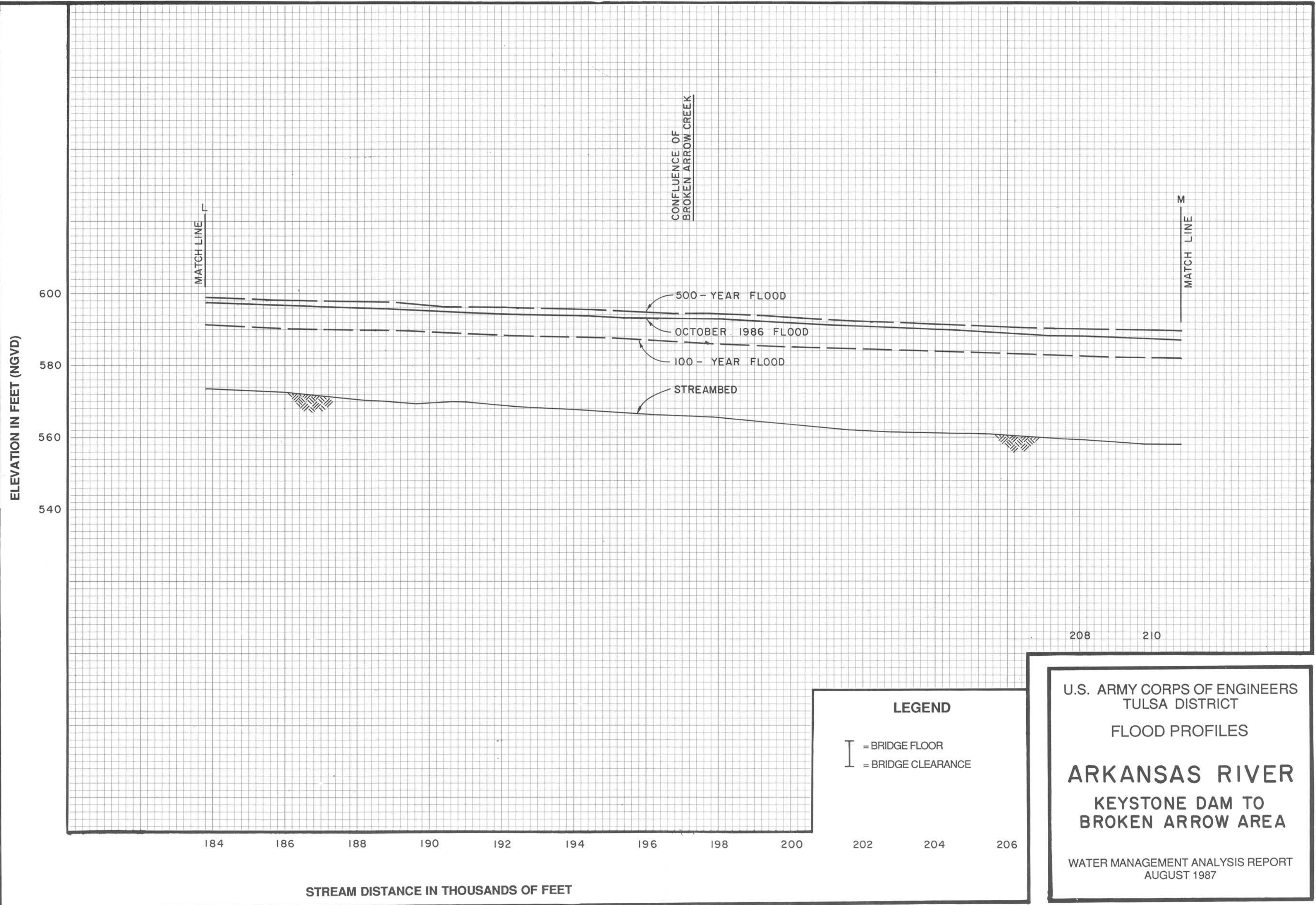


U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

FLOODED AREAS
 OCTOBER 1986

ARKANSAS RIVER
 KEYSTONE DAM TO
 BROKEN ARROW AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987



ELEVATION IN FEET (NGVD)

MATCH LINE

CONFLUENCE OF
BROKEN ARROW CREEK

MATCH LINE

500 - YEAR FLOOD
OCTOBER 1986 FLOOD
100 - YEAR FLOOD

STREAMBED

LEGEND

I = BRIDGE FLOOR
I = BRIDGE CLEARANCE

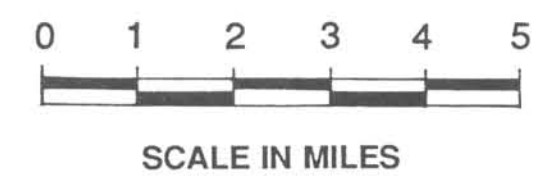
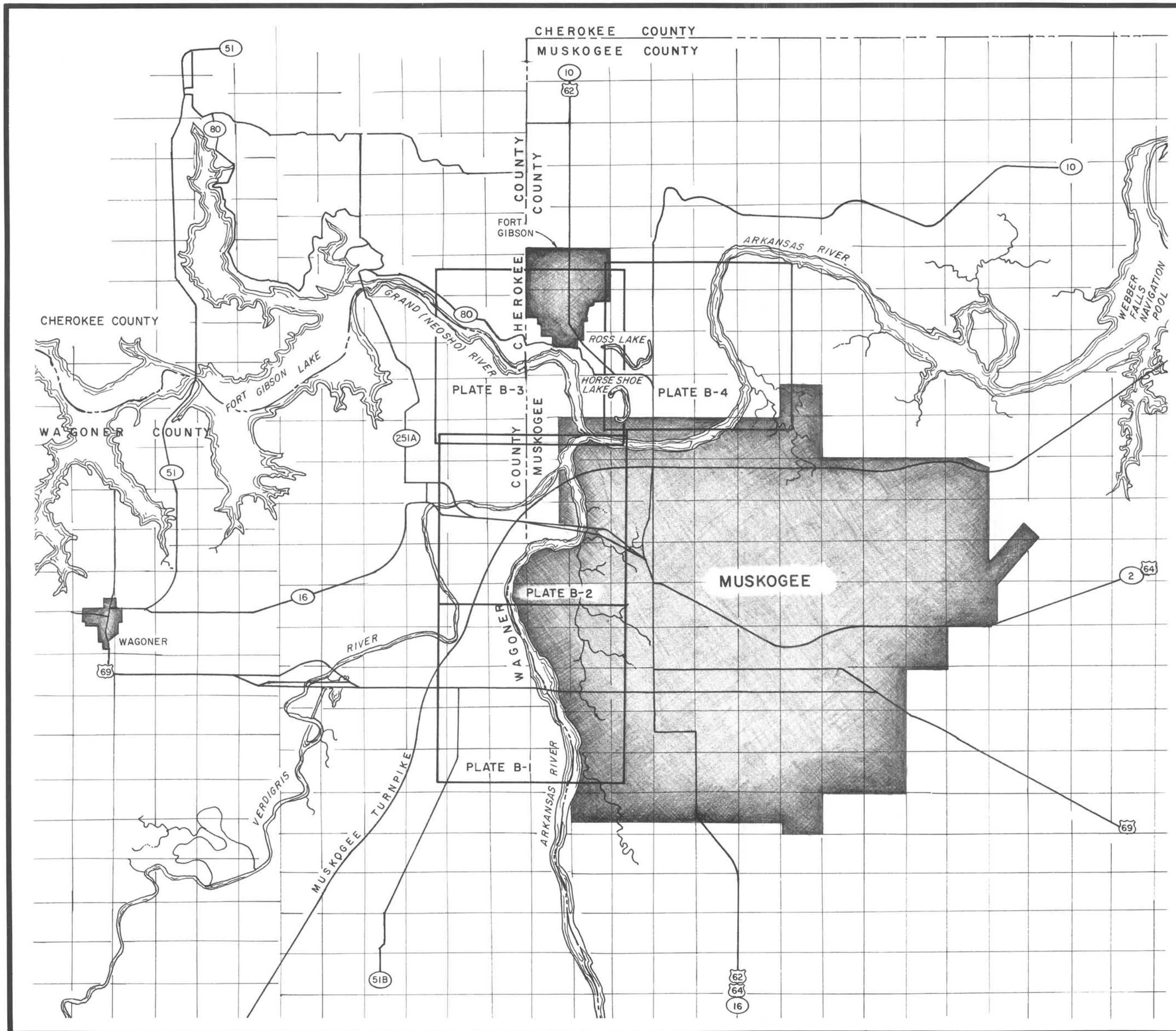
U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOOD PROFILES

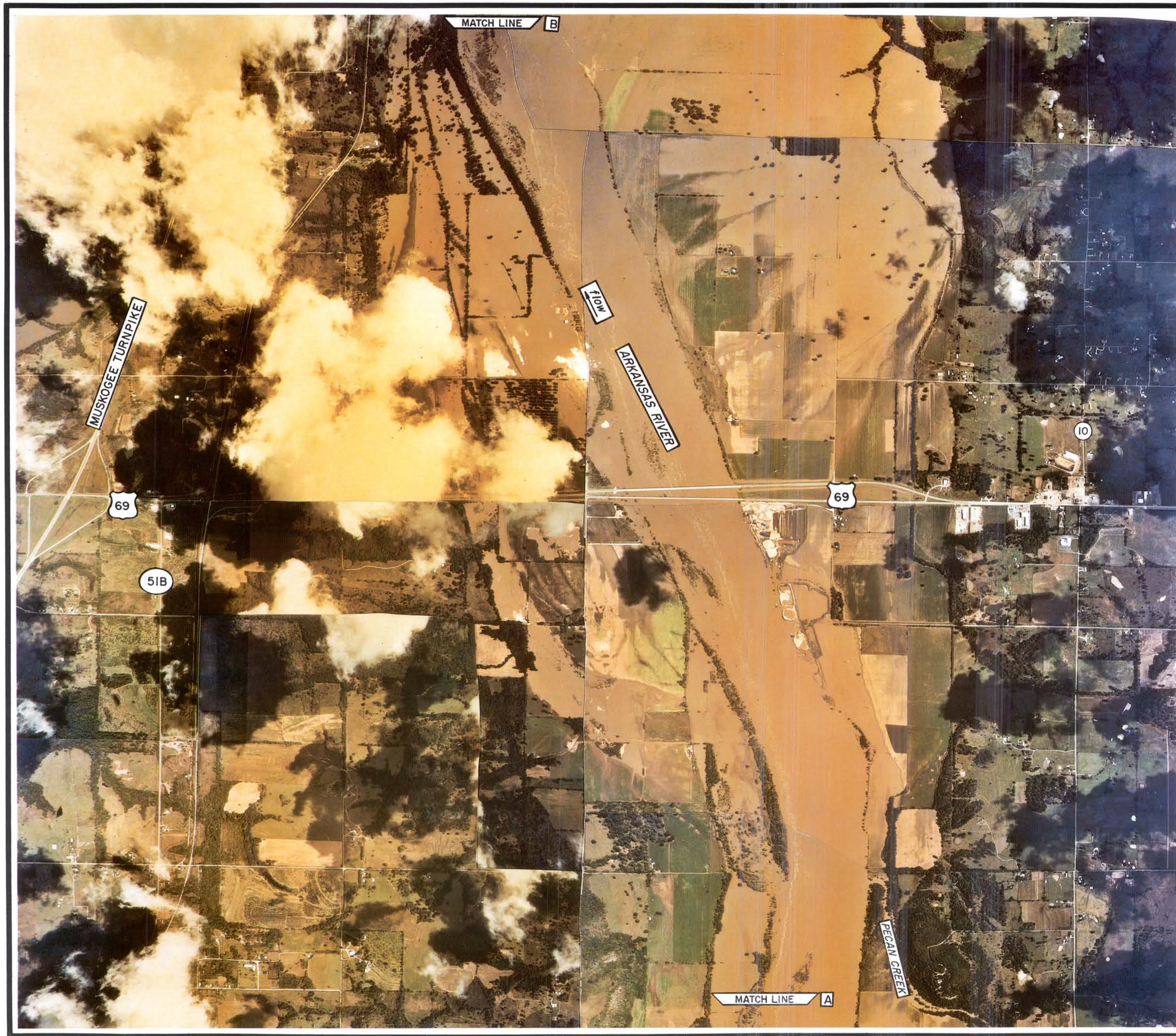
**ARKANSAS RIVER
KEYSTONE DAM TO
BROKEN ARROW AREA**

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987

STREAM DISTANCE IN THOUSANDS OF FEET



U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT
INDEX MAP
FLOODED AREAS
OCTOBER 1986
ARKANSAS RIVER
MUSKOGEE THREE FORKS
AREA
WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987



Time of Photo - 1:45 p.m., 10/6/86
 Arkansas River Flow at Time of Photo - 210,000 cfs
 Maximum Flow During Flood - 330,000 cfs (10/7/86)
 cfs = cubic feet per second



0 1000 2000 3000 4000



SCALE IN FEET

U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

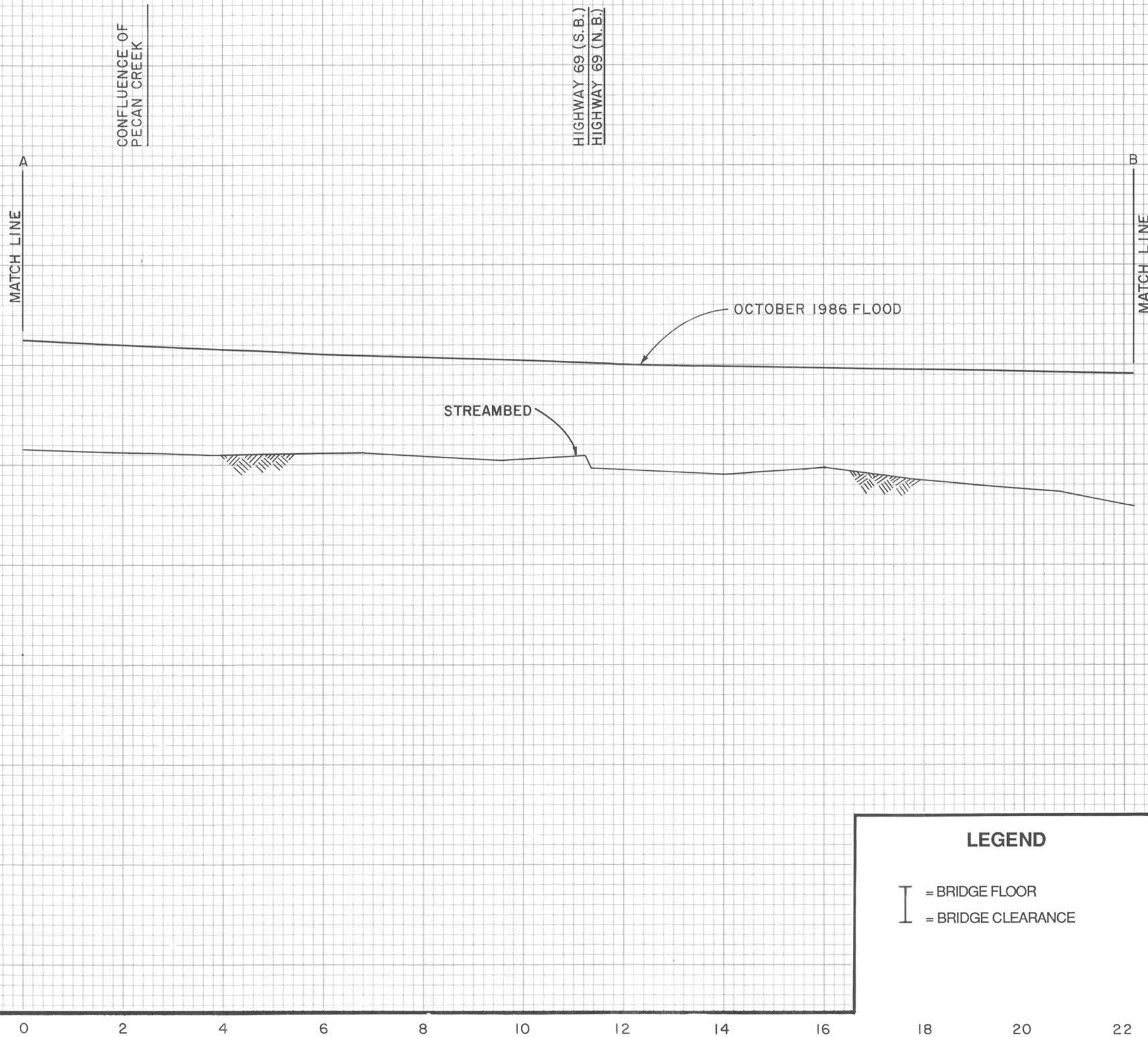
FLOODED AREAS
 OCTOBER 1986

**ARKANSAS RIVER
 MUSKOGEE THREE FORKS
 AREA**

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987

PLATE B-1

ELEVATION IN FEET (NGVD)



STREAM DISTANCE IN THOUSANDS OF FEET

LEGEND

-  = BRIDGE FLOOR
-  = BRIDGE CLEARANCE

U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

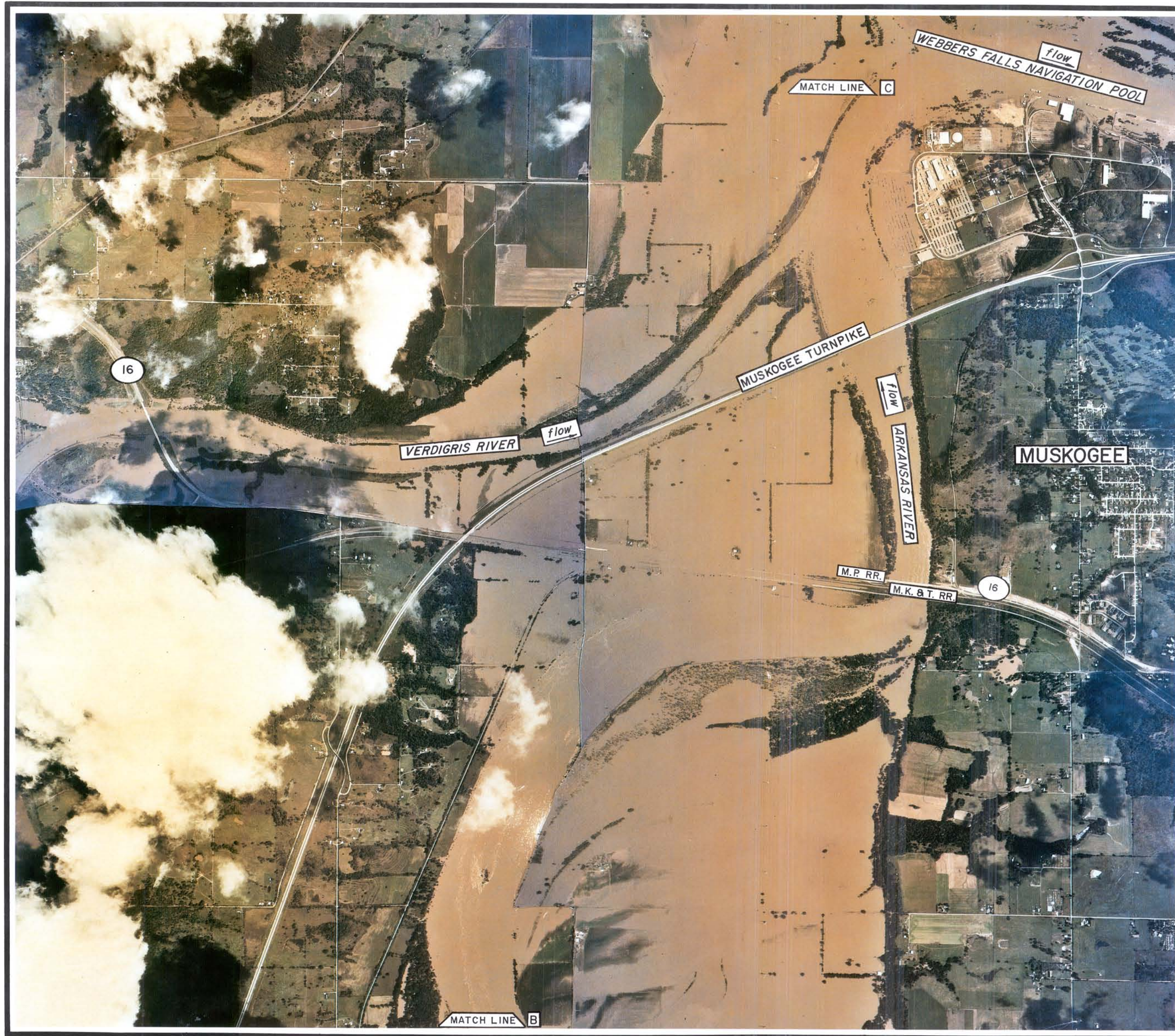
FLOOD PROFILES

ARKANSAS RIVER

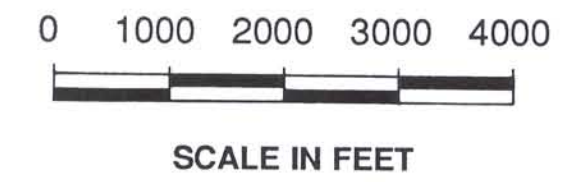
MUSKOGEE, OK.,
THREE FORKS AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987

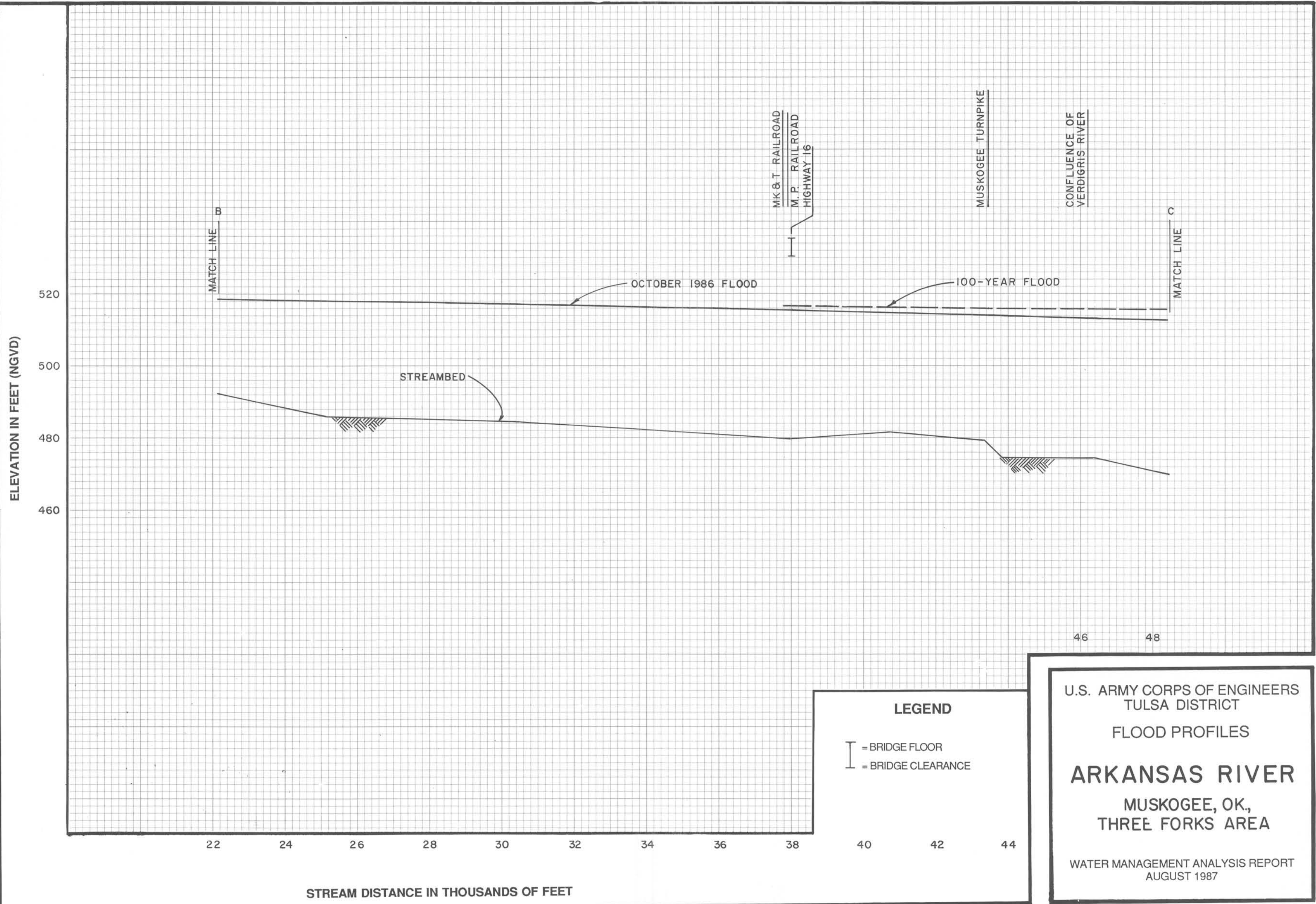
PLATE B-1P



Time of Photo - 1:45 p.m., 10/6/86
 Flow at Time of Photo -
 Verdigris River - 35,000 cfs
 Arkansas River - 210,000 cfs
 Maximum Flow During Flood -
 Verdigris River - 60,000 cfs (10/2/86)
 Arkansas River - 330,000 cfs (10/7/86)
 cfs = cubic feet per second

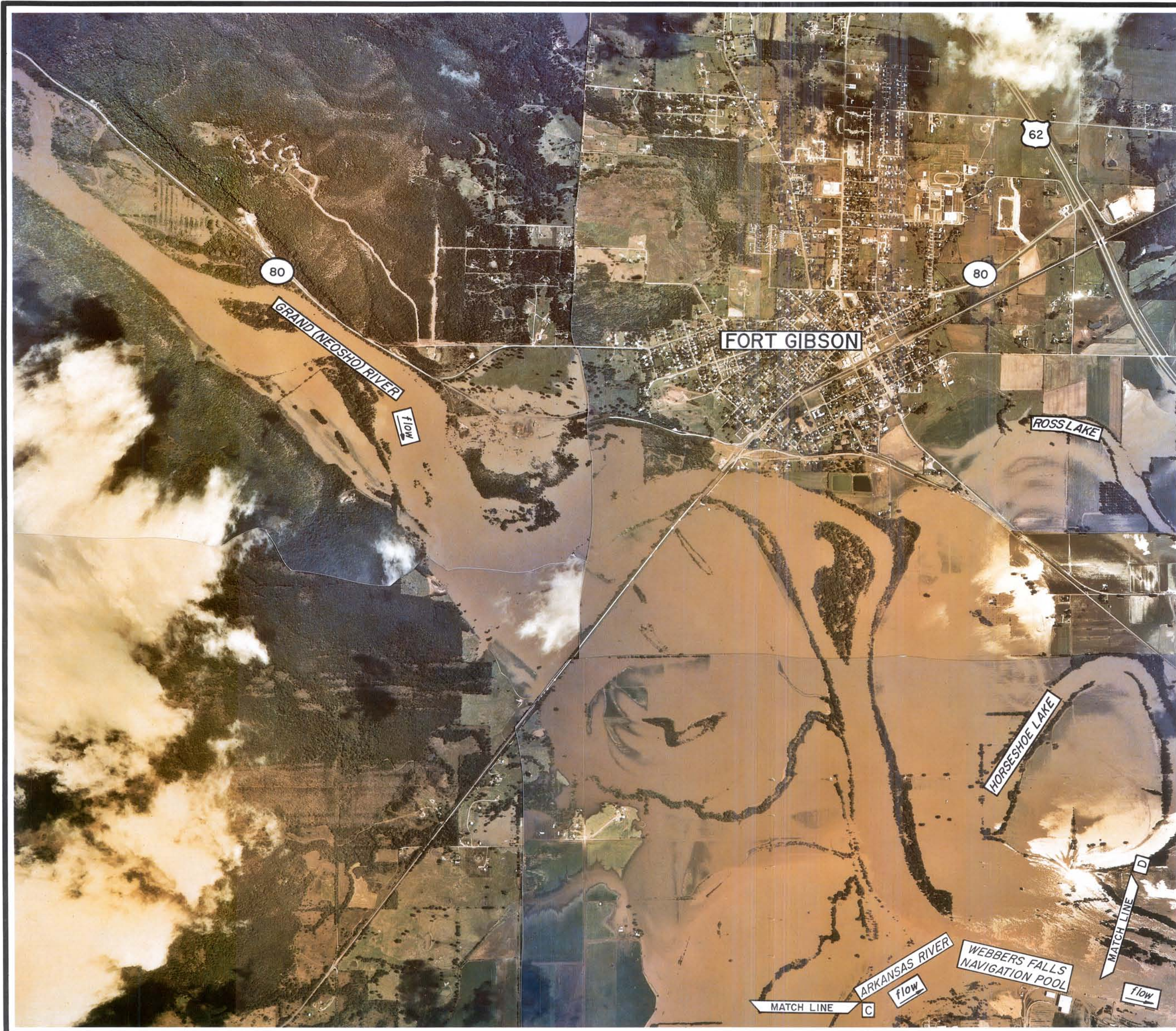


U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT
 FLOODED AREAS
 OCTOBER 1986
ARKANSAS RIVER
MUSKOGEE THREE FORKS
AREA
 WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987



U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT
 FLOOD PROFILES
ARKANSAS RIVER
 MUSKOGEE, OK.,
 THREE FORKS AREA
 WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987

LEGEND
 I = BRIDGE FLOOR
 I = BRIDGE CLEARANCE



Time of Photo - 1:45 p.m., 10/6/86
 Grand (Neosho) River Flow at Time of Photo - 115,000 cfs
 Maximum Flow During Flood - 123,000 cfs (10/3/86)
 cfs = cubic feet per second



0 1000 2000 3000 4000



SCALE IN FEET

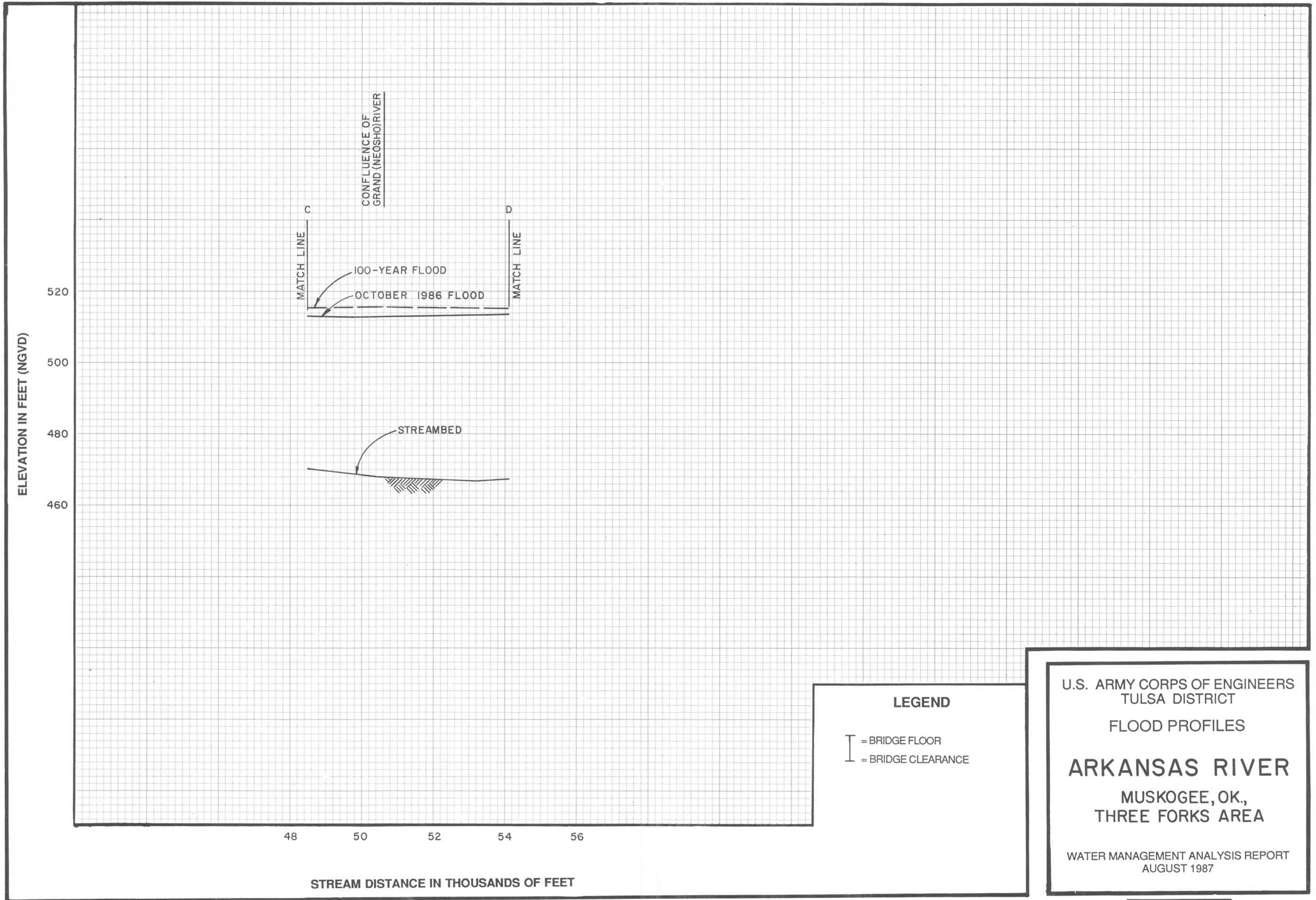
U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

FLOODED AREAS
 OCTOBER 1986

ARKANSAS RIVER
 MUSKOGEE THREE FORKS
 AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987

PLATE B-3



ELEVATION IN FEET (NGVD)

48 50 52 54 56

STREAM DISTANCE IN THOUSANDS OF FEET

C MATCH LINE
 CONFLUENCE OF GRAND (NEOSHO) RIVER
 D MATCH LINE
 100-YEAR FLOOD
 OCTOBER 1986 FLOOD

STREAMBED

LEGEND

- ⌈ = BRIDGE FLOOR
- ⌋ = BRIDGE CLEARANCE

U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

FLOOD PROFILES

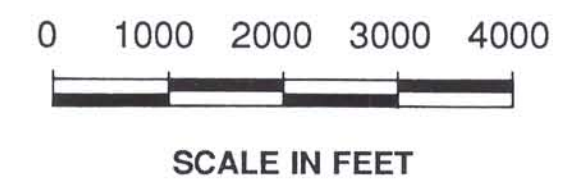
ARKANSAS RIVER

MUSKOGEE, OK.,
 THREE FORKS AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987



Time of Photo - 1:45 p.m., 10/6/86
 Arkansas River Flow at Time of Photo - 360,000 cfs
 Maximum Flow During Flood - 360,000 cfs (10/6/86)
 cfs = cubic feet per second

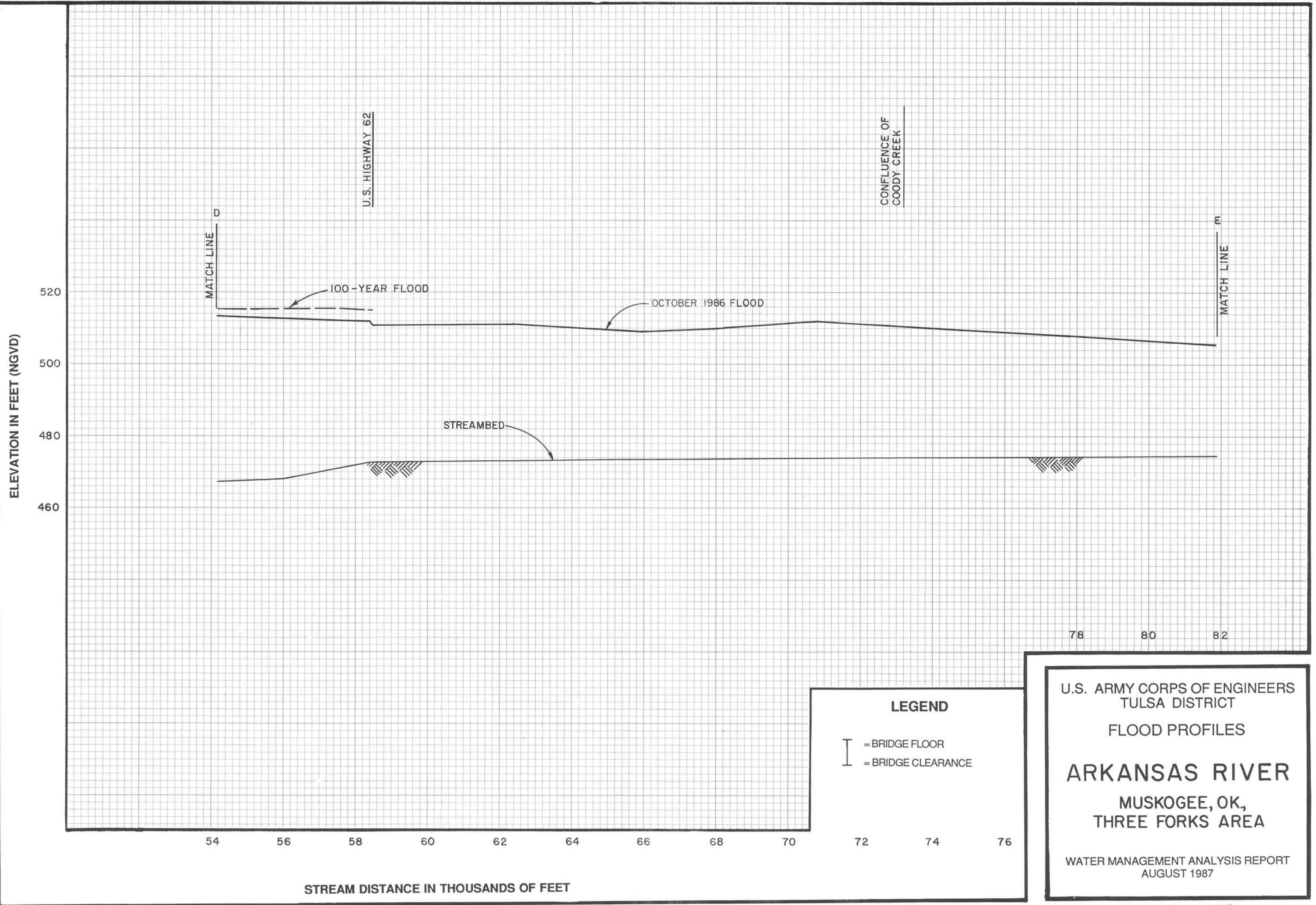


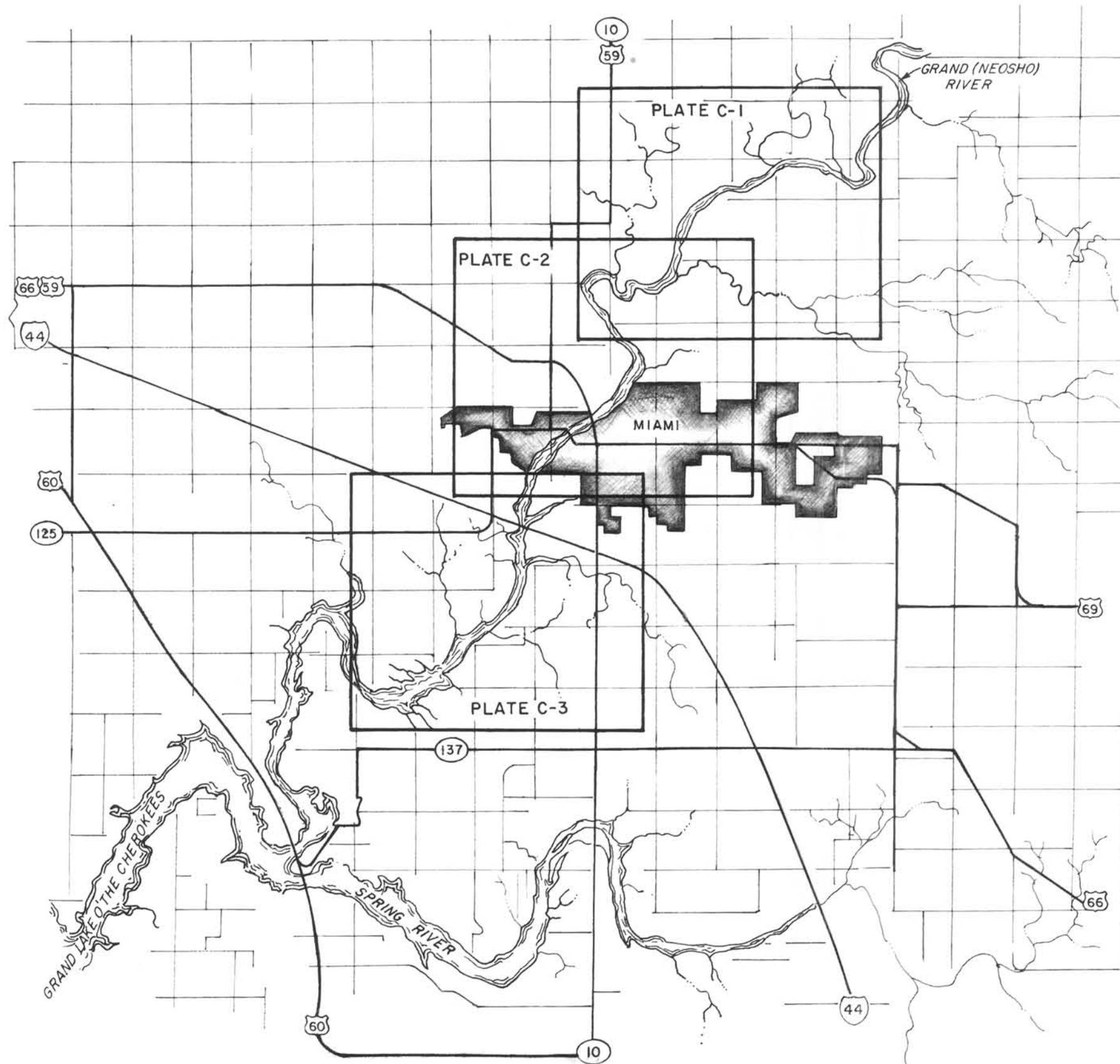
U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

FLOODED AREAS
 OCTOBER 1986

**ARKANSAS RIVER
 MUSKOGEE THREE FORKS
 AREA**

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987





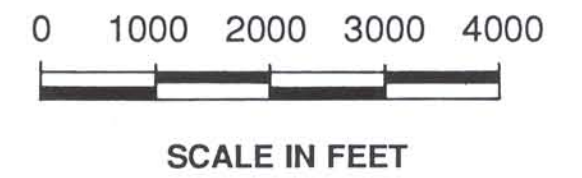
U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT
 INDEX MAP
 FLOODED AREAS
 OCTOBER 1986
**GRAND (NEOSHO)
 RIVER**
 MIAMI AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987

PLATE C



Time of Photo - 11:40 a.m., 10/6/86
Flow at Time of Photo - 120,000 cfs
Maximum Flow During Flood - 122,000 cfs (10/3/86)
cfs = cubic feet per second

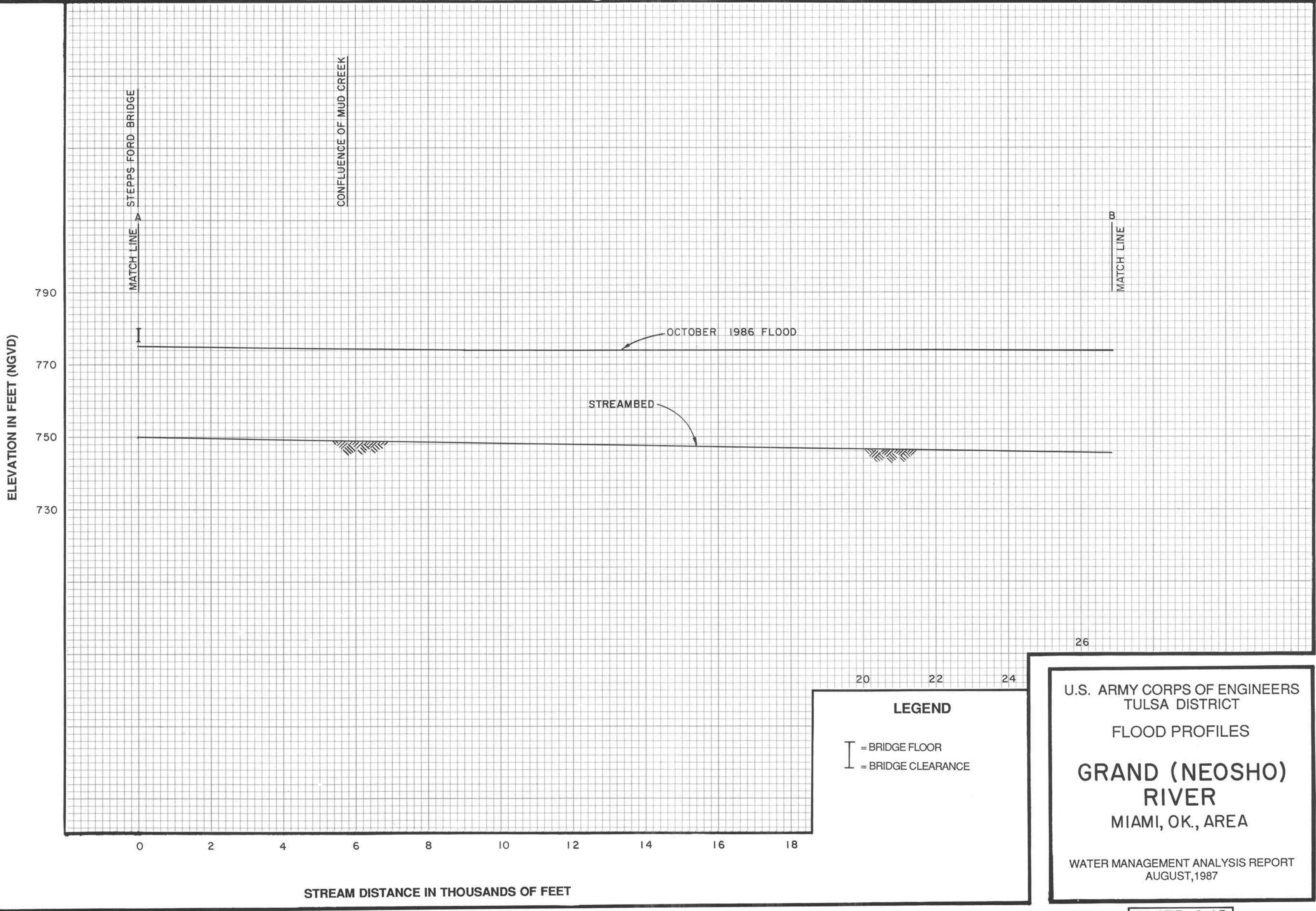


U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOODED AREAS
OCTOBER 1986

**GRAND (NEOSHO)
RIVER**
MIAMI AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987



ELEVATION IN FEET (NGVD)

790
770
750
730

MATCH LINE A STEPPS FORD BRIDGE

CONFLUENCE OF MUD CREEK

MATCH LINE B

OCTOBER 1986 FLOOD

STREAMBED

0 2 4 6 8 10 12 14 16 18

STREAM DISTANCE IN THOUSANDS OF FEET

20 22 24

LEGEND

I = BRIDGE FLOOR
I = BRIDGE CLEARANCE

26

U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOOD PROFILES

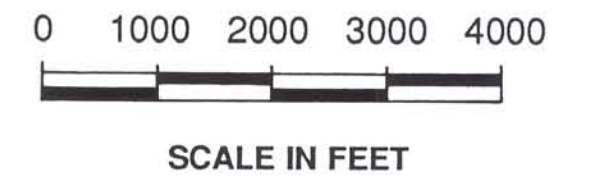
**GRAND (NEOSHO)
RIVER**

MIAMI, OK., AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST, 1987

PLATE C-1P

Time of Photo - 11:40 a.m., 10/6/86
Flow at Time of Photo - 120,000 cfs
Maximum Flow During Flood - 122,000 cfs (10/3/86)
cfs = cubic feet per second



U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

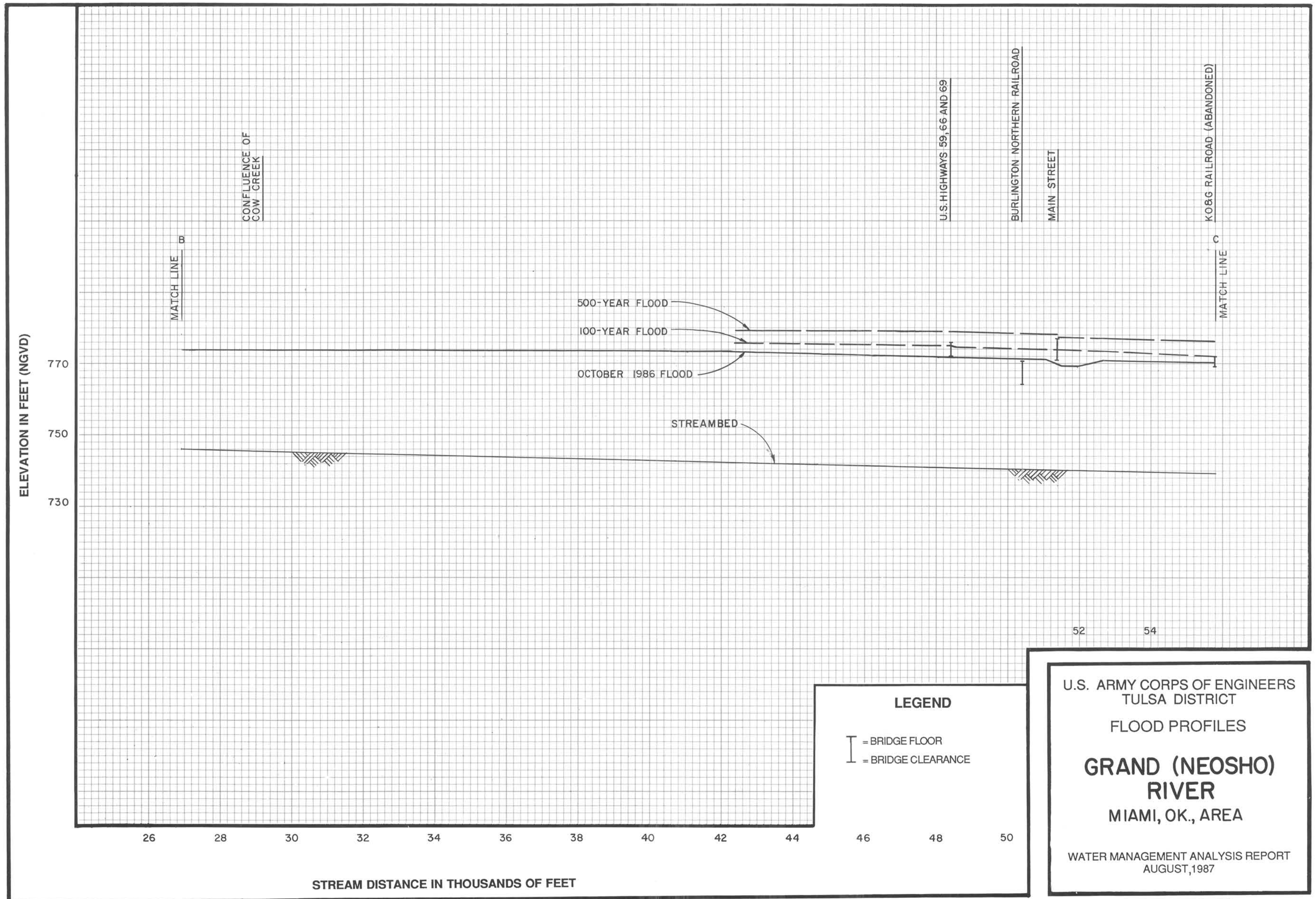
FLOODED AREAS
OCTOBER 1986

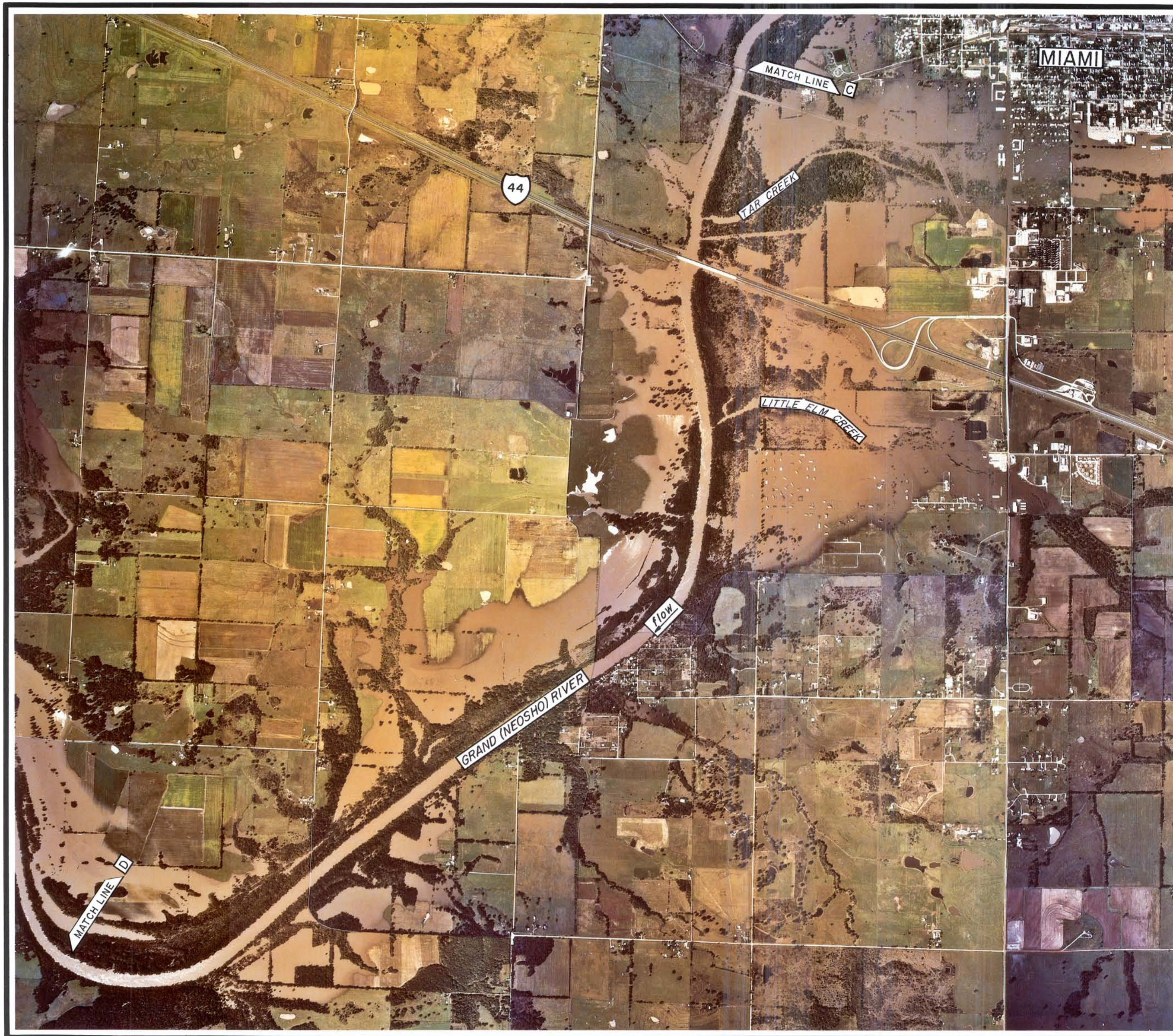
GRAND (NEOSHO) RIVER MIAMI AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987

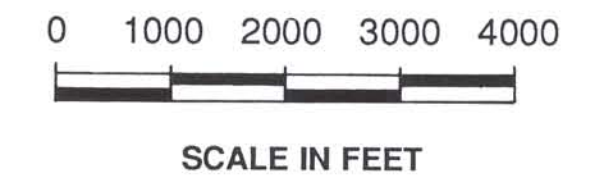
[PLATE C-2]







Time of Photo - 11:40 a.m., 10/6/86
 Flow at Time of Photo - 120,000 cfs
 Maximum Flow During Flood - 122,000 cfs(10/3/86)
 cfs = cubic feet per second



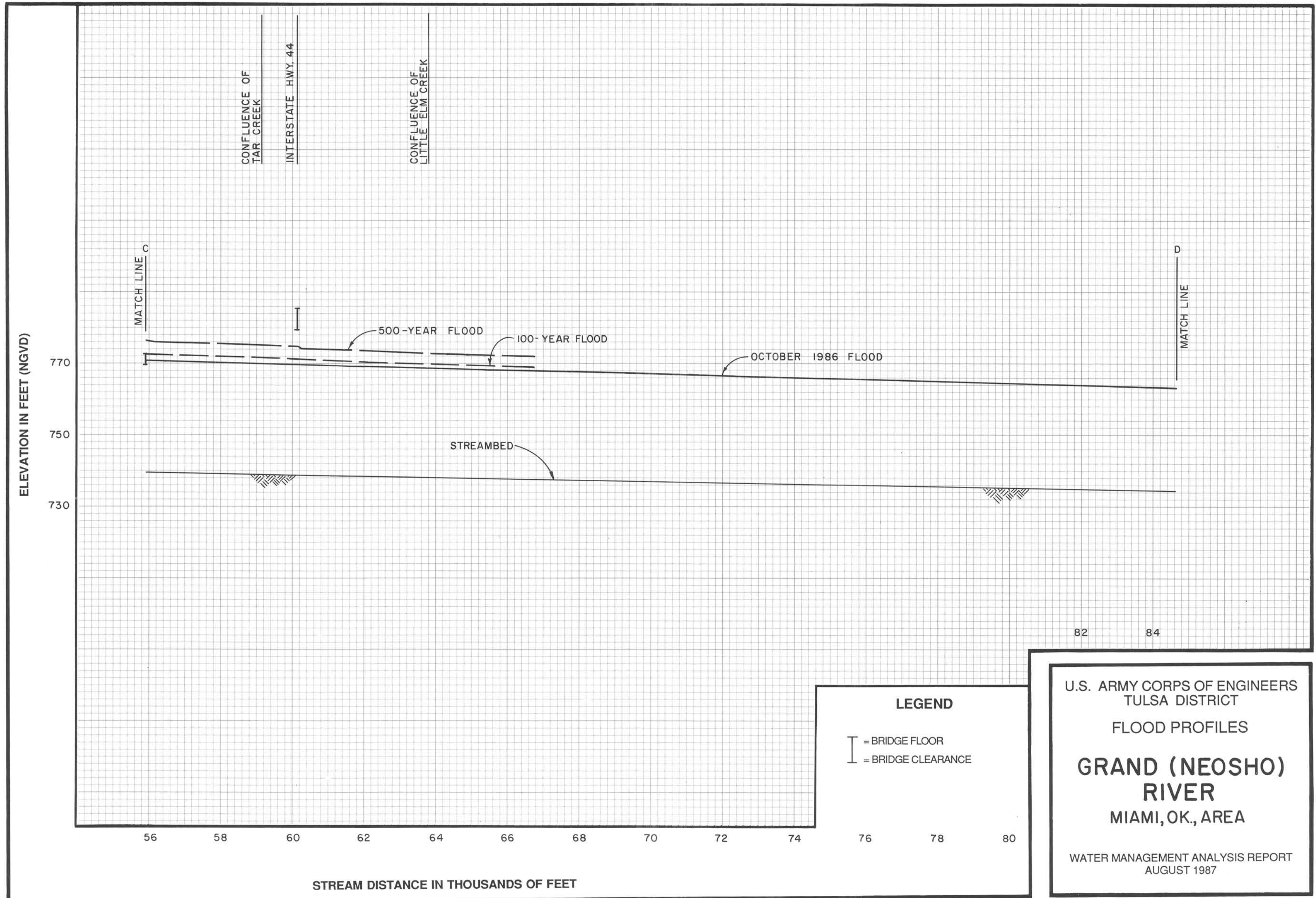
U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

FLOODED AREAS
 OCTOBER 1986

**GRAND (NEOSHO)
 RIVER**

MIAMI AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987



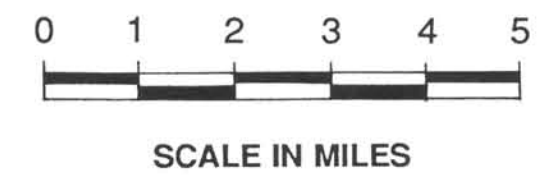
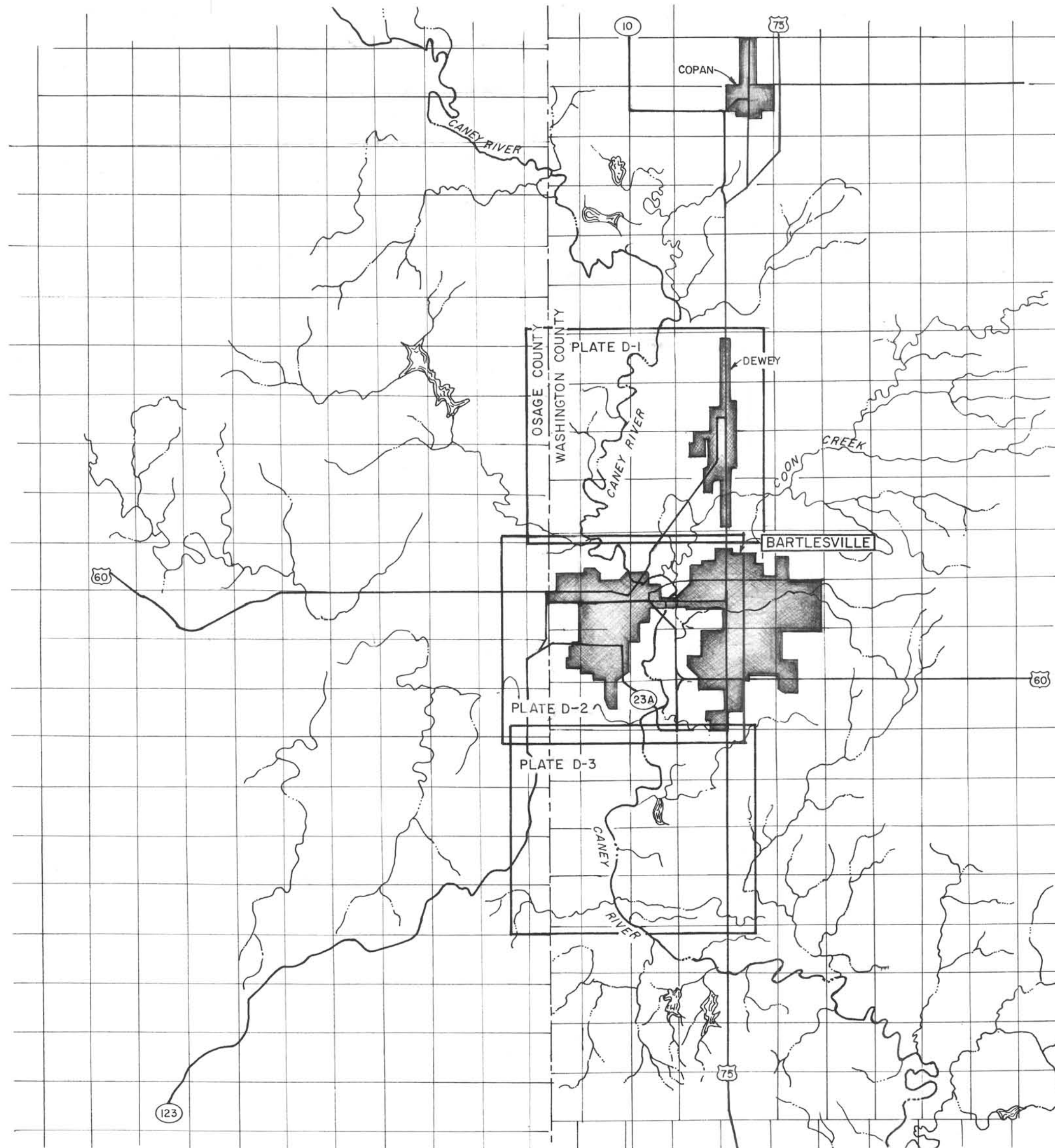
U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

FLOOD PROFILES

**GRAND (NEOSHO)
 RIVER**

MIAMI, OK., AREA

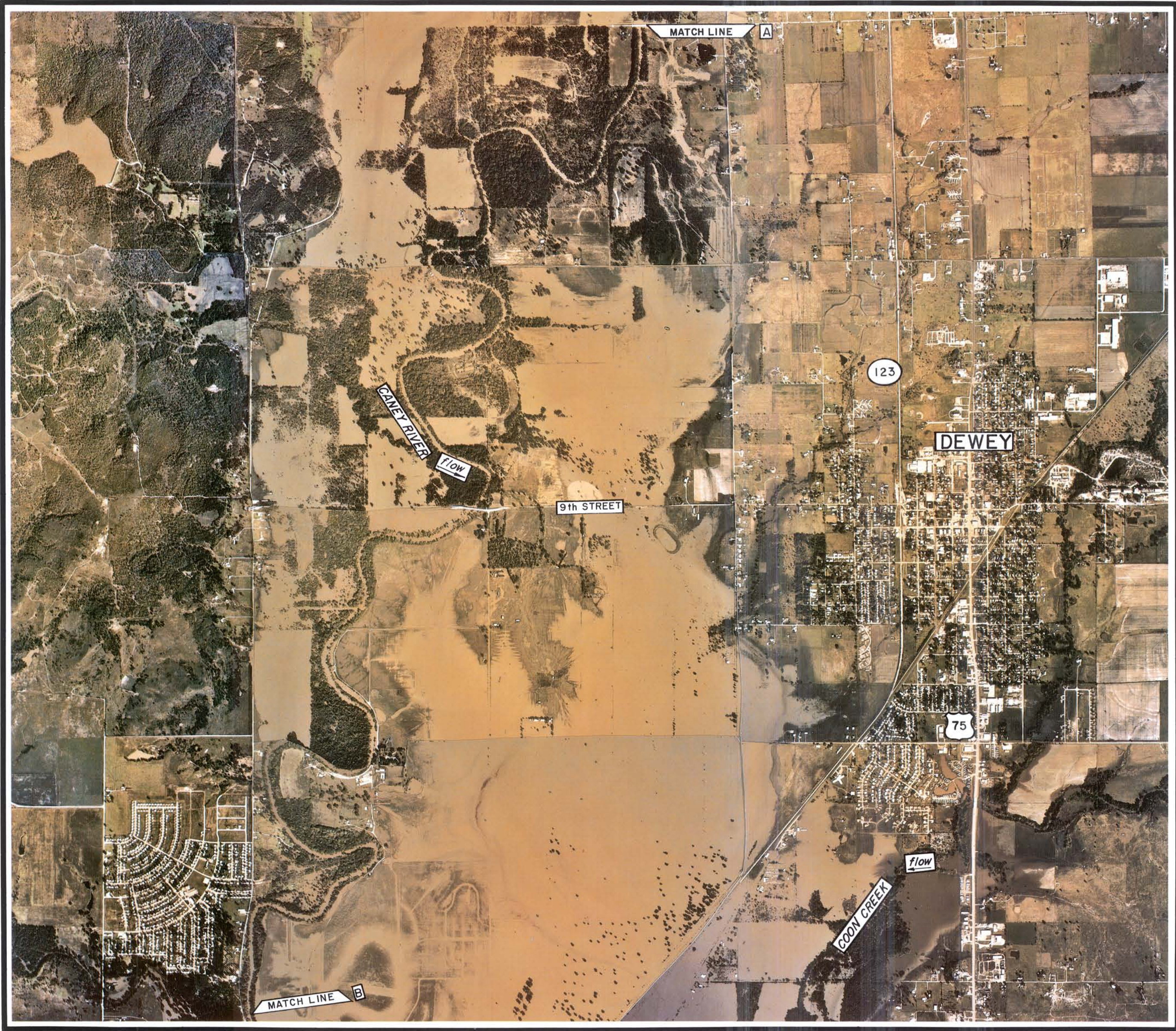
WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987



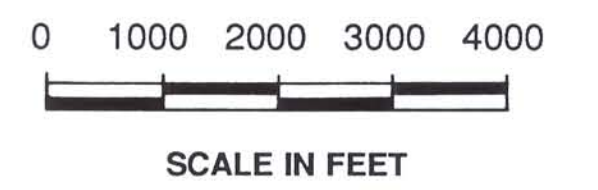
U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT
 INDEX MAP
 FLOODED AREAS
 OCTOBER 1986
CANEY RIVER
 BARTLESVILLE AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987

PLATE D



Time of Photo - 11:00 a.m., 10/6/86
 Flow at Time of Photo - 33,000 cfs
 Maximum Flow During Flood - 108,000 cfs (10/4/86)
 cfs = cubic feet per second

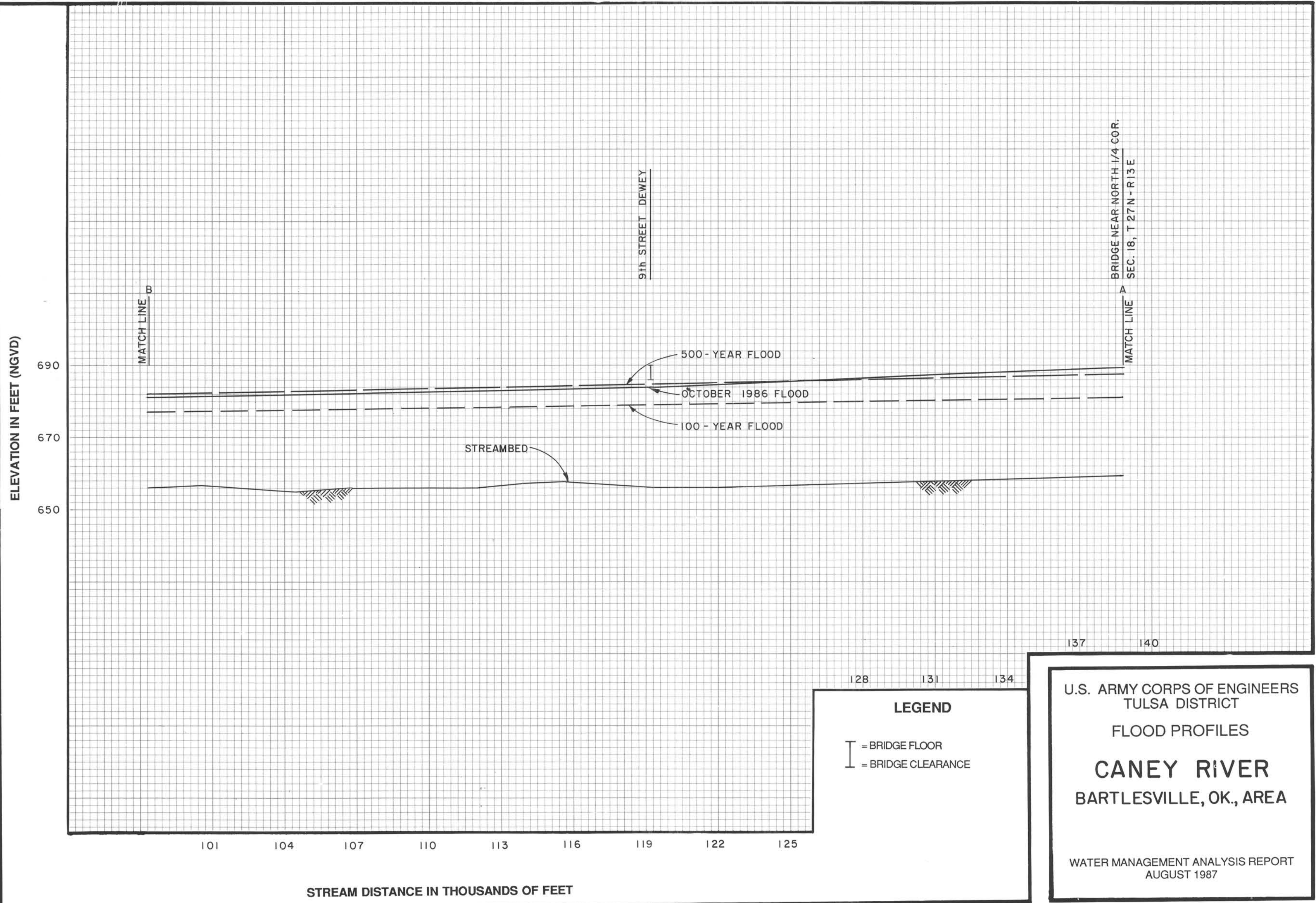


U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

FLOODED AREAS
 OCTOBER 1986

CANEY RIVER
 BARTLESVILLE AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987



ELEVATION IN FEET (NGVD)

101 104 107 110 113 116 119 122 125

STREAM DISTANCE IN THOUSANDS OF FEET

MATCH LINE

9th STREET DEWEY

BRIDGE NEAR NORTH 1/4 COR.
SEC. 18, T 27N - R13E
MATCH LINE

500-YEAR FLOOD

OCTOBER 1986 FLOOD

100-YEAR FLOOD

STREAMBED

128 131 134

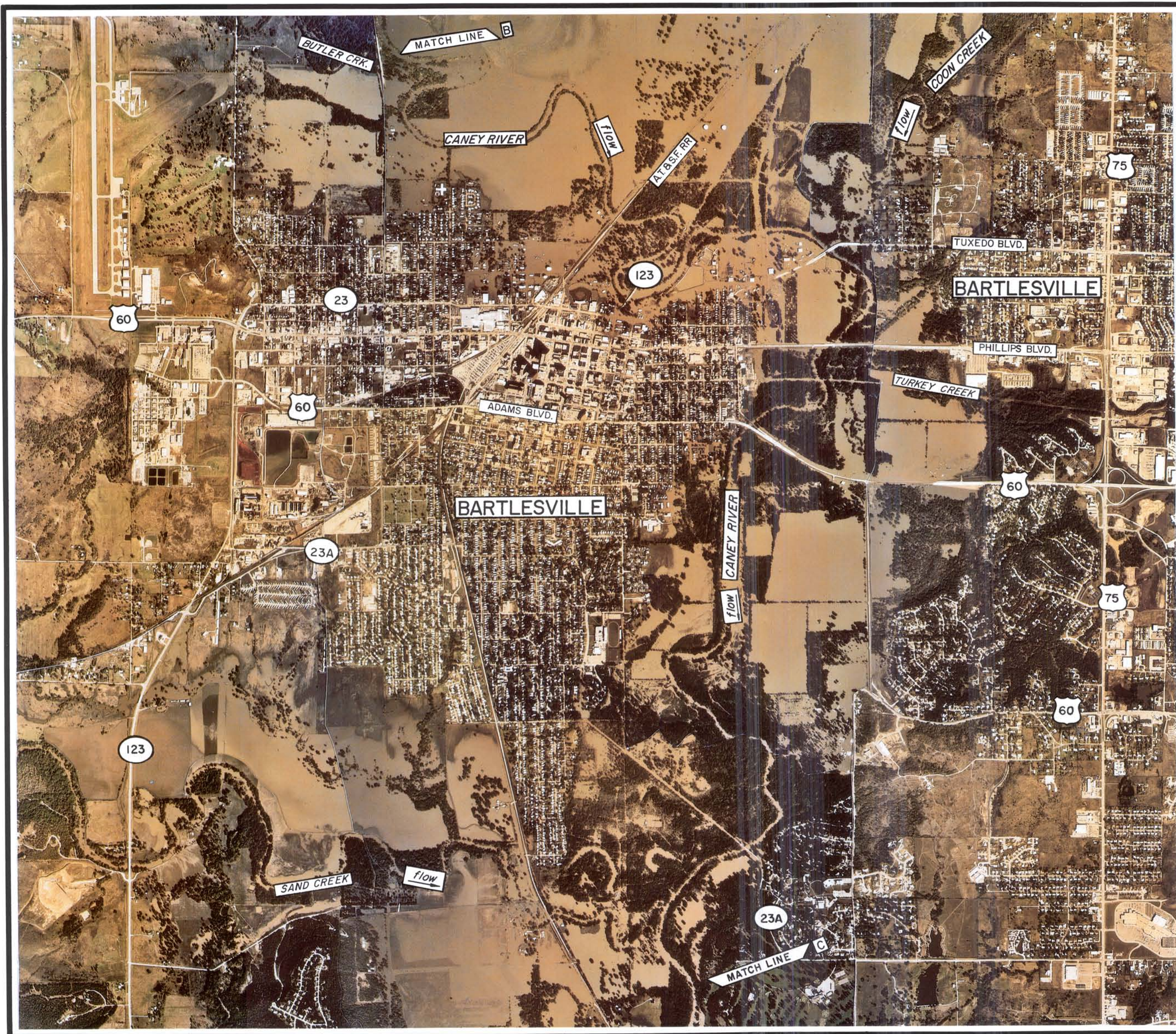
LEGEND

- ⌈ = BRIDGE FLOOR
- ⌋ = BRIDGE CLEARANCE

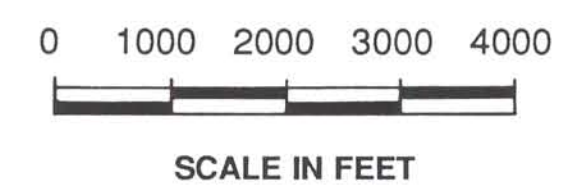
137 140

U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT
FLOOD PROFILES
CANEY RIVER
BARTLESVILLE, OK., AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987



Time of Photo - 11:00 a.m., 10/6/86
 Flow at Time of Photo - 33,000 cfs
 Maximum Flow During Flood - 108,000 cfs (10/4/86)
 cfs = cubic feet per second



U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

FLOODED AREAS
 OCTOBER 1986

CANEY RIVER
 BARTLESVILLE AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987



Time of Photo - 11:00 a.m., 10/6/86
 Flow at Time of Photo - 33,000 cfs
 Maximum Flow During Flood - 108,000 cfs (10/4/86)
 cfs = cubic feet per second



0 1000 2000 3000 4000



SCALE IN FEET

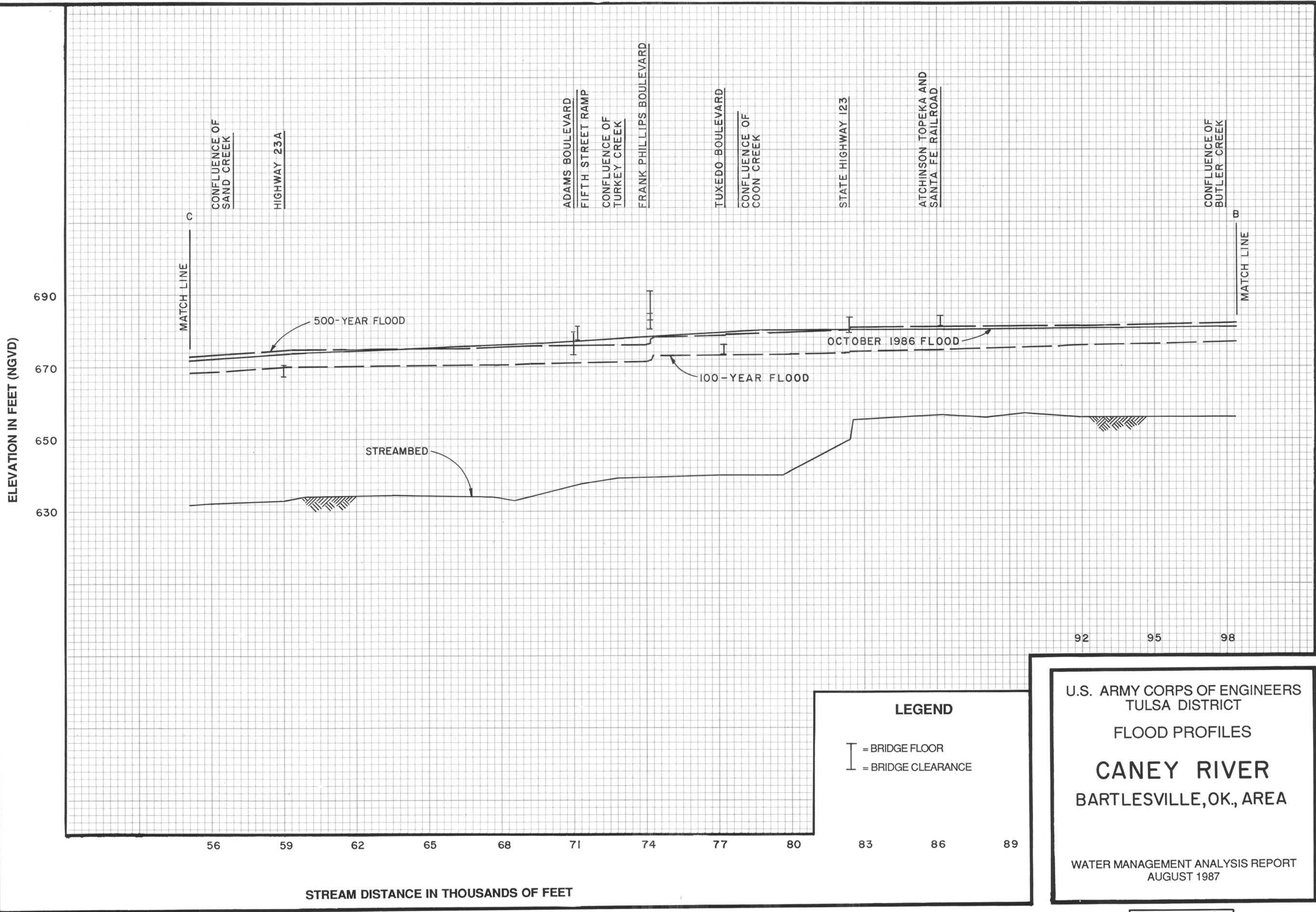
U.S. ARMY CORPS OF ENGINEERS
 TULSA DISTRICT

FLOODED AREAS
 OCTOBER 1986

CANEY RIVER
 BARTLESVILLE AREA

WATER MANAGEMENT ANALYSIS REPORT
 AUGUST 1987

PLATE D-3



ELEVATION IN FEET (NGVD)

STREAM DISTANCE IN THOUSANDS OF FEET

LEGEND

- ⌈ = BRIDGE FLOOR
- ⌋ = BRIDGE CLEARANCE

U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

FLOOD PROFILES

CANEY RIVER
BARTLESVILLE, OK., AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987

ELEVATION IN FEET (NGVD)

BRIDGE APPROX. LOCATION
SW COR. SEC. 7, T25N, R13E

BRIDGE APPROX. LOCATION
SOUTH LINE SEC. 1, T25N, R12E

CONFLUENCE OF
RICE CREEK

MATCH LINE

MATCH LINE

54

LEGEND

-  = BRIDGE FLOOR
-  = BRIDGE CLEARANCE

U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT

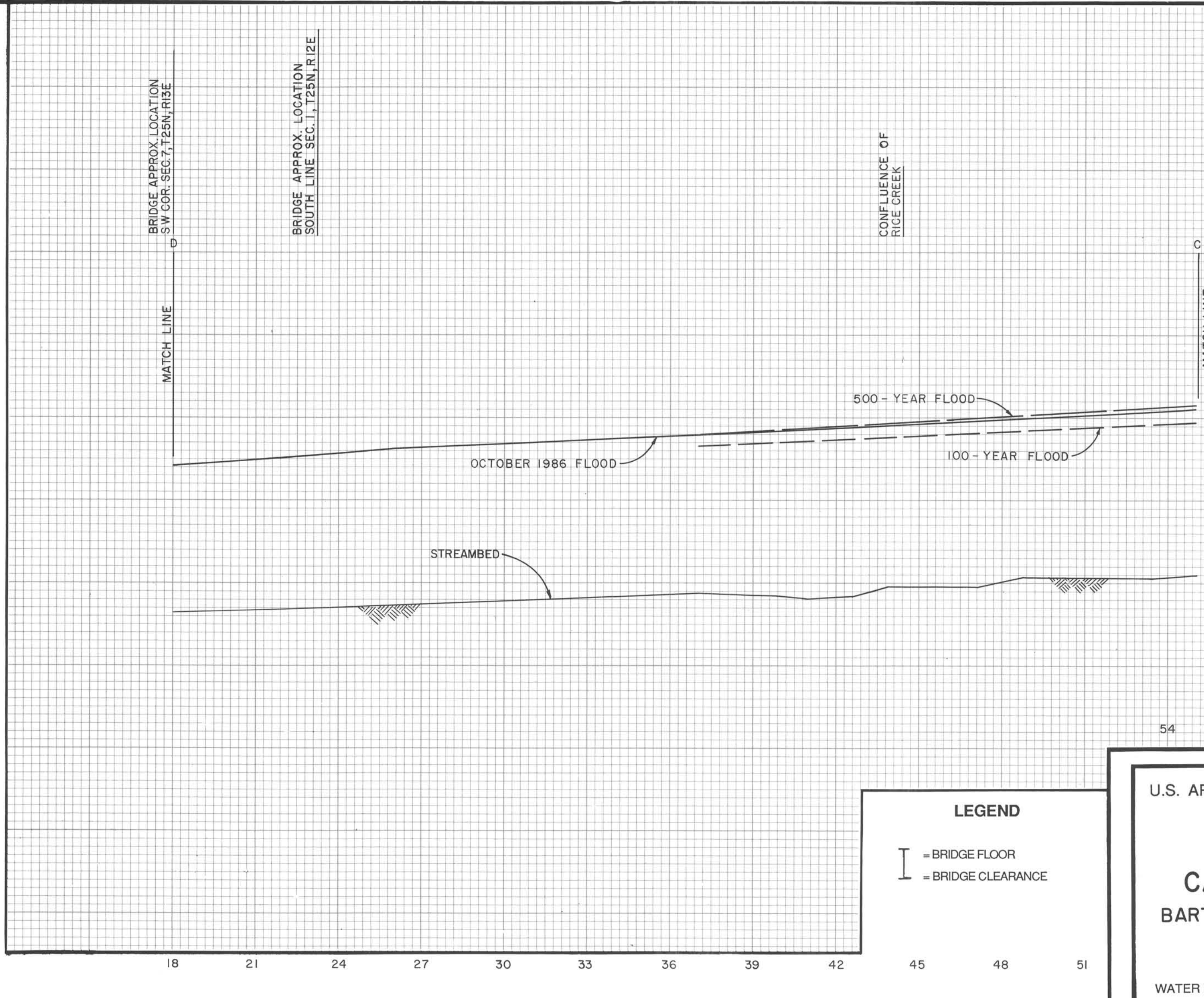
FLOOD PROFILES

CANEY RIVER
BARTLESVILLE, OK., AREA

WATER MANAGEMENT ANALYSIS REPORT
AUGUST 1987

PLATE D-3P

STREAM DISTANCE IN THOUSANDS OF FEET



18 21 24 27 30 33 36 39 42 45 48 51