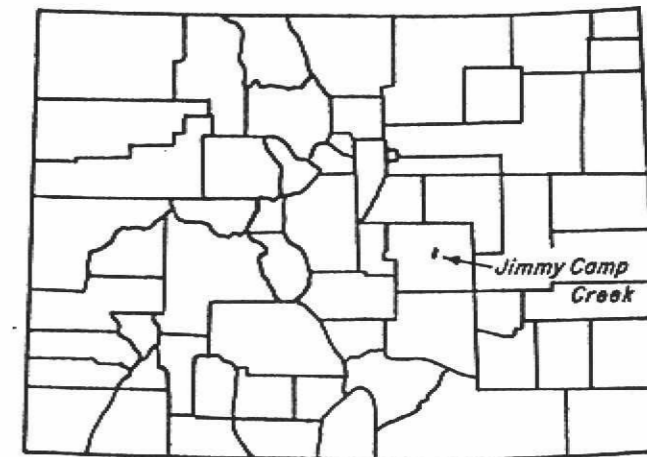


370

FLOOD HAZARD ANALYSES

PORTIONS OF JIMMY CAMP CREEK AND TRIBUTARIES EL PASO COUNTY COLORADO



Prepared by the
U.S. Department of Agriculture
Soil Conservation Service
in cooperation with the
Colorado Water Conservation Board
El Paso County
Pikes Peak Area Council of Governments

October 1975

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION -----	1
GENERAL CONDITIONS AND PAST FLOODS -----	3
Description of the Study Area -----	3
Flooding Characteristics -----	4
Flood Hazard Study Area Map -----	5
History of Flooding -----	6
Photographs - Flood Hazard and Damages -----	8
SOURCES OF DATA AND TECHNICAL STUDIES -----	10
Maps -----	10
Surveys -----	10
Technical Studies -----	11
INTERPRETATION AND USE OF REPORT DATA -----	12
Maps -----	12
Water Surface Profiles -----	13
Typical Valley Cross-Sections -----	14
Flood Frequency-Elevation & Discharge Data -----	14
INTERPRETATIONS AND RECOMMENDATIONS -----	14
Interpretations -----	14
Recommendations -----	15

EXHIBITS

NUMBERS

Water Surface Profiles:

Reach 1,	Jimmy Camp Creek	A-1 through A-1e
Reach 2,	East Tributary	A-2 through A-2c
Reach 3,	Franceville Tributary	A-3 through A-3b
Reach 4,	Corral Tributary	A-4 through A-4b
Reach 5,	Strip Mine Tributary	A-5 through A-5a

Typical Valley Cross-Sections:

Reach 1,	Jimmy Camp Creek	B-1
	Sections: J-190 and J-400	
Reaches 2 & 3,	East and Franceville	
	Tributaries, Sections:	
	E-180 and F-040	B-2
Reaches 4 & 5,	Corral and Strip Mine	
	Tributaries, Sections:	
	C-140 and M-100	B-3

TABLES

NUMBERS

Flood Frequency-Elevation & Discharge Data:

Jimmy Camp Creek, Reach 1	1
East Tributary, Reach 2	2
Franceville Tributary, Reach 3	3
Corral Tributary, Reach 4	4
Strip Mine Tributary, Reach 5	5

MAPS

Mosaic Sheet Index, Jimmy Camp Creek
 Flood Hazard Areas, Jimmy Camp Creek,
 Sheets 1 through 34

FLOOD HAZARD ANALYSES
PORTIONS OF JIMMY CAMP CREEK
AND TRIBUTARIES
EL PASO COUNTY, COLORADO

INTRODUCTION

This flood hazard analyses report presents the results of a study on the flood plain lands of Jimmy Camp Creek, Colorado. It was prepared by the Soil Conservation Service, U. S. Department of Agriculture, in cooperation with the Colorado Water Conservation Board, El Paso County, and the Pikes Peak Area Council of Governments.

Primary purpose of this report is to provide maps of the flood hazard areas so that local governments can develop flood plain regulations. Urban development has spread eastward from the Colorado Springs area towards Jimmy Camp Creek. Without regulations, it is very difficult to prevent encroachment in the flood plains. Flood hazard maps are useful in the enforcement of flood plain regulations. Included in the report are engineering and hydrologic data which will facilitate the use of the maps. The data can also be used in the location and design of roads, bridges, and channel modification. The report contains interpretations of the flood hazard analyses and recommendations to minimize flood damages. The technical data should be useful in preparing a master drainage plan for Jimmy Camp Creek. However, it is beyond the scope of this study to provide specific proposals or plans to rectify the flooding problems.

The study was requested by the El Paso County and the Pikes Peak Area Council of Governments through the Colorado Water Conservation Board. One of the responsibilities of the Board is to guide the proper flood plain land use and management to reduce potential flood losses. Before local entities can prepare flood plain zoning regulations, the Colorado Statutes provide as follows:

Section 37-60-106(1)(c) of the Colorado Revised Statutes 1973, requires that the Colorado Water Conservation Board designate and approve storm or floodwater runoff channels and to make such designation available to legislative bodies of local jurisdictions; and

Section 30-28-111 for county governments and Section 31-23-201 for municipal governments of the Colorado Revised Statutes 1973, provides that such cities, towns, incorporated areas and local jurisdictions shall provide zoning regulations for any storm or floodwater runoff channel only after designation and approval by the Colorado Water Conservation Board.

Flood hazard analyses are carried out by the Soil Conservation Service as an outgrowth of the recommendations in *A Report by the Task Force on Federal Flood Control Policy*, House Document No. 465 (89th Congress, August 10, 1966), especially Recommendation 9(c), *Regulation of Land Use*, which recommended the preparation of preliminary reports for guidance in those areas where assistance is needed before a full flood hazard information report can be prepared or where a full report is not scheduled.

Authority for funding flood hazard analyses is provided by Section 6 of Public Law 83-566, which authorizes the U.S. Department of Agriculture to cooperate with other federal, state and local agencies to make investigations and surveys of the watersheds of rivers and other waterways as a basis for the development of coordinated programs.

In carrying out flood hazard analyses, the Soil Conservation Service is being responsive to Executive Order 11296, dated August 10, 1966, especially to Section 1(4), which directs that *all executive agencies responsible for programs which entail land use planning shall take flood hazards into account when evaluating plans and shall encourage land use appropriate to the degree of hazard involved.*

As coordinator for all water studies in the state, the Colorado Water Conservation Board establishes priorities and schedules these studies on a priority basis. Study priorities with the Soil Conservation Service are in accordance with the joint coordination agreement of January 1972.

El Paso County and the Pikes Peak Area Council of Governments participated in the study by providing: aerial photographs, estimates of present and future flood plain use, survey crew assistance, and funds for printing the final report. Technical services by the Soil Conservation Service were funded through regular agency appropriations in accordance with the Plan of Study of March 1973.

The survey, hydrologic, hydraulic and other pertinent data and computations are on file with the Soil Conservation Service, U.S. Department of Agriculture, 2490 West 26th Avenue, Denver, Colorado 80211.

GENERAL CONDITIONS AND PAST FLOODS

Description of the Study Area

Jimmy Camp Creek drainage basin, located in the west central portion

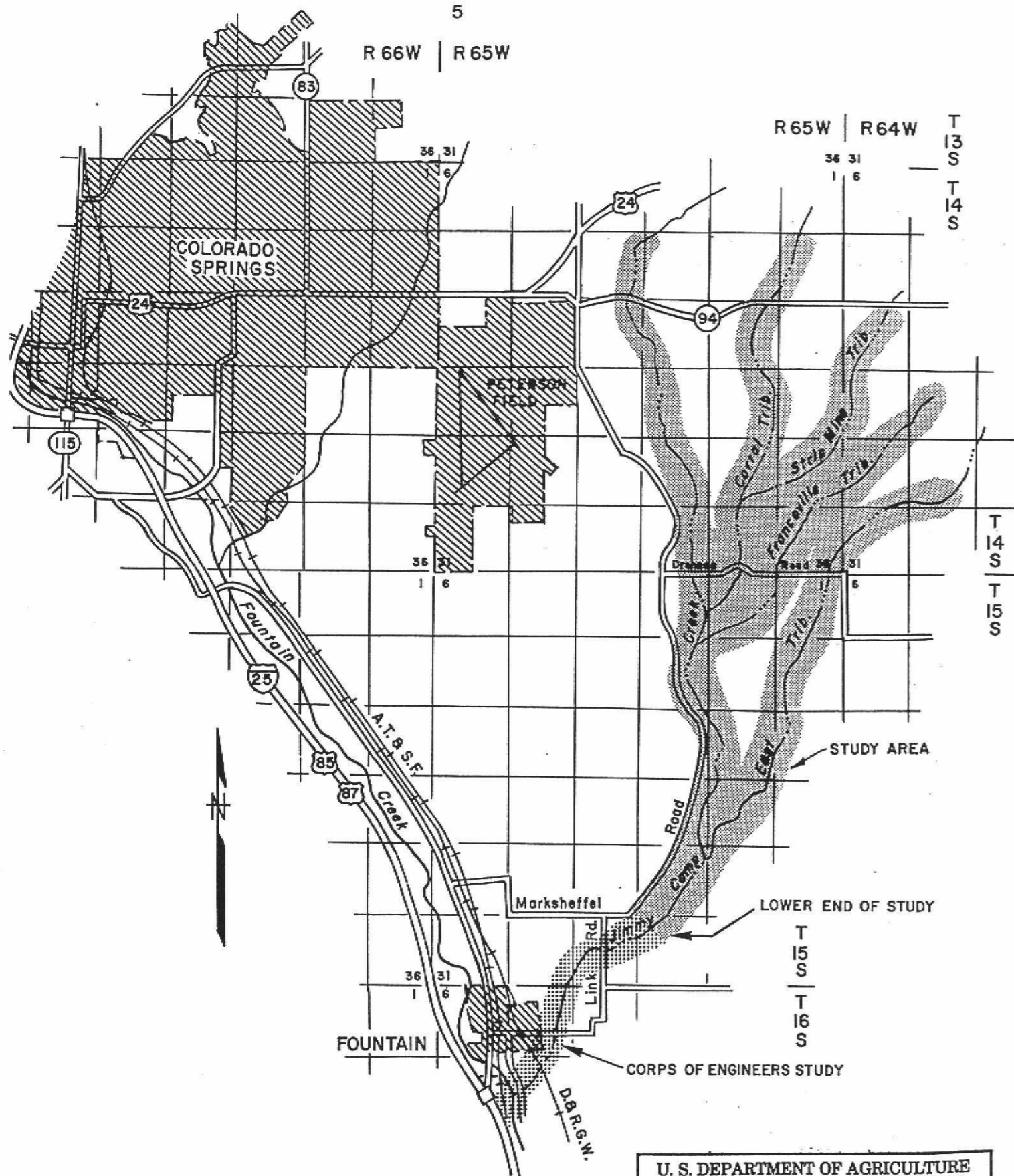
of El Paso County, originates in the high plains about seven miles northeast of the City of Colorado Springs. Flowing in a southwesterly direction, Jimmy Camp Creek drains into Fountain Creek near the town of Fountain. Fountain Creek is a major tributary to the Arkansas River in the Arkansas-White-Red, Water Resources Council Region. The watershed is 17 miles long, averages about 4 miles in width, and drains an area of approximately 66 square miles. Upper reaches of the watershed begin at about 6,900 feet mean sea level elevation and Jimmy Camp Creek joins Fountain Creek at 5,484 feet elevation. The topography is characterized by rolling hills and ridges which are generally steeper in the upper watershed.

The study area begins about 2,700 feet east of Link Road approximately 4.33 river miles upstream from the Jimmy Camp Creek confluence with Fountain Creek. The beginning point (lower end of study) coincides with the upper limit of the Corps of Engineers Flood Plain Information Report. ^{1/} The study area extends upstream along the flood plains of Jimmy Camp Creek and its major tributaries: East, Franceville, Corral, and Strip Mine Tributaries. Total length of stream reaches studied in this report is about 33 miles. The flood plains vary in width from about 200 feet in the upper reaches to about one-half mile in the lower flat areas. A map of the flood hazard study area is shown on page 5.

Flooding Characteristics

Jimmy Camp Creek is an intermittent stream and is normally dry except for a short reach near the confluence with Fountain Creek. In

^{1/} Flood Plain Information - Fountain and Jimmy Camp Creeks - Colorado Springs, Fountain, El Paso County, Colorado. Department of the Army Corps of Engineers, March 1973.



APPROXIMATE SCALE: 1/2" = 1 MILE

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

FLOOD HAZARD STUDY AREA
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO

this reach, a minimal amount of ground water seeps into the creek. The flow of seep water is usually less than one cubic foot per second.

Storms which produce floodwater occur during the summer months from May to August. During this period, warm, moist air masses from the Gulf of Mexico combine with cold and comparatively dry air from the polar regions to cause thunderstorms. The storms are characterized by high rainfall intensities of short duration, producing high peak flows and moderate volumes of water. Frequently, the thunderstorms are severe and occur over rather limited areas.

History of Flooding

In the Jimmy Camp Creek Watershed, primary use of land, including the flood plain, is for agricultural purposes. Historical documentation of flooding is meager. Floods occur that go unrecorded because they lack the "sensationalism" and "disastrous effects" worthy of news coverage, such as those associated with flooding in cities and towns. Major flood damages in the watershed are to roads, bridges, and agricultural land.

The flood of June 18, 1965 is of historical interest since it was probably the largest known flood to occur in El Paso County. At a point four and one-half miles upstream from the Fountain Creek confluence, flood flow in Jimmy Camp Creek was estimated at 124,000 c.f.s. When compared to the relatively small drainage area (53.5 square miles) above

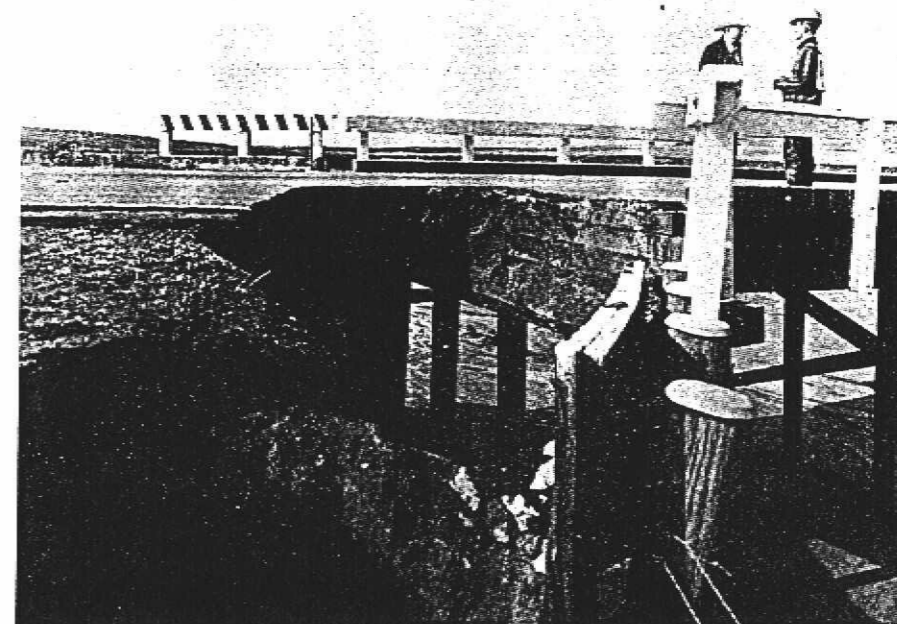
this point, the magnitude of flow was phenomenal -- considerably greater than that expected from a 100-year storm.

There are no stream gages on Jimmy Camp Creek and the magnitude of floods in terms of measured flow are not available.

The following are recorded accounts of flooding on Jimmy Camp Creek:

- | | |
|----------------|---|
| May 30, 1935 | Memorial Day Flood - There was extensive damage done in this area; the majority of this was agricultural, road and bridge damage. |
| June 18, 1965 | This flood brought considerable flooding - road and bridge damage. Maximum discharge was 124,000 c.f.s. |
| July 18, 1972 | Reports of "2 to 5" rain fell in the Franceville Creek (tributary to Jimmy Camp Creek) area causing approximately \$100,000 damage to roads and bridges. State Highway 94 was closed. |
| August 3, 1972 | This flood did over \$50,000 damage to road and bridge, and completely isolated eight families. |

Photographs showing road and bridge damages after the July 18, 1972 flood are shown on pages 8 and 9.



Colorado Highway No. 94 and Franceville Bridge



Jimmy Camp Creek and Marksheffel Road washout

FLOOD DAMAGES -- July 18, 1972



Peaceful Valley Road Crossing at Jimmy Camp Creek .



Bridge repair on Link Road and Jimmy Camp Creek .

FLOOD DAMAGES -- JULY 18, 1972

SOURCES OF DATA AND TECHNICAL STUDIES

Maps

Base maps were developed from U.S. Geological Survey topographic maps (scale 1:24,000). Flood hazard areas are plotted on aerial photo-mosaic maps prepared especially for this study. The low level aerial photography was provided by El Paso County and was flown in May 1973. Detailed topographic mapping and cross-section data were produced photogrammetrically by the Soil Conservation Service. This data was used to compute water surface profiles and the flood hazard area outlines. The photos were reproduced on a scale of 1" = 400' with a 4-foot contour interval and 2-foot supplementary contours in the flatter areas. Map topography complies with national map accuracy requirements. The photographic image contains displacements due to relief and it does not match the topographic detail in all areas.

Surveys

Engineering field surveys for vertical and horizontal control, and cross-sections at road and bridge crossings were conducted by the Soil Conservation Service. Survey crew assistance was provided by El Paso County. The vertical control was tied to mean sea level elevations using U.S. Geological Survey and U.S. Coast and Geodetic Survey benchmarks. Soils and cover data pertinent to the Jimmy Camp Creek watershed were extracted from SCS reports for El Paso County and field checked for use in the hydrologic analyses.

Technical Studies

There are no streamflow records for Jimmy Camp Creek. Synthetic rainfall-runoff evaluation procedures were used in determining the flows for various frequency storms. These procedures are described in the SCS National Engineering Handbook, Section 4.

Hydrologic analyses were conducted using runoff computations based on existing land use and cover conditions in the watershed as of May 1973. Information regarding the type and location of existing and projected land uses were provided by the El Paso County Planning Department. Comparison studies of present and future runoff showed insignificant differences resulting from projected changes in land use. Land treatment will not significantly affect the peak flow estimates for future flooding; however, a continuing land treatment program is necessary to curtail sediment and erosion damages. All technical data in this report are based on existing conditions.

The 10-, 25-, 50-, 100- and 500-year frequency flood events were analyzed and water surface profiles plotted showing elevations at each cross-section. Water surface profile determinations were made using the U.S. Army Corps of Engineers computer program HEC-2. The flood events have an average occurrence of once in the number of years as indicated. For example, the 100-year flood occurs once in 100 years on the average, and has a one percent chance of being equaled or exceeded in any given year.

Flood lines for the 100- and 500-year floods were located on the aerial mosaics using the water surface elevations, cross-section data, and by interpolating between the cross-sections. Recognizing that aerial photographs are subject to displacement due to ground relief, the photographic image does not match the delineated flood lines in all areas. The location of flood lines at road crossings were computed using the normal openings of bridges and culverts. Because of the multitude of possible events in which sediment and debris could cause blockage of bridges and culverts, these considerations were not included in the study. In some locations, flooding occurs as shallow overland flow in transit from perched channels to the main channel. At these locations, the water surface elevations may not be level across the flood plain as in the normal situation.

INTERPRETATION AND USE OF REPORT DATA

Maps

For planning and flood zone regulation purposes, the 100-year flood is used locally as the base flood. Floods of higher frequency, such as the 500-year flood are also considered in the planning and management of flood-prone areas. The 100-year and 500-year events were chosen for delineation on the flood hazard maps. In many instances the 100- and 500-year floods will appear as one line on the maps. This is due to the topographic relief and slight difference in elevation between the two flood events. Maps, drawings, and other technical data labeled *Existing Conditions* are valid as of May 1973.

Water Surface Profiles

In addition to the 100- and 500-year frequency floods, the 10-, 25- and 50-year events are plotted on the water surface profiles. Information regarding these lower frequency floods is especially useful for engineering design purposes related to roads, storm sewers, channels, and appurtenant structures. For information regarding flood line elevations at a specific location, the water surface profile data can be used in conjunction with the flood hazard maps. The cross-section locations which appear on both the profiles and maps can be used as reference points. Water surface profiles are included in this report as Exhibit A. Photo index sheet numbers, compatible with cross-section locations, are shown on each water surface profile exhibit.

As a general guide for orientation purposes, the following designations are assigned to stream names, reach numbers, and cross-section identification:

Stream Name	Reach Number	Cross-Section Identification
Jimmy Camp Creek	1	J-100 thru J-520
East Tributary	2	E-003 thru E-230
Franceville Tributary	3	F-010 thru F-173
Corral Tributary	4	C-010 thru C-240
Strip Mine Tributary	5	M-010 thru M-107

Typical Valley Cross-Sections

Exhibit B is a selection of typical valley cross-sections illustrating the configuration of stream channels and adjoining flood plain areas. Shown on the cross-sections are the elevations and lateral extent for the 100- and 500-year flood events.

Flood Frequency-Elevation and Discharge Data

Tables 1 through 5 include flood crest elevations and peak discharges for the 10-, 25-, 50-, 100- and 500-year floods. Tabular material is compatible with reach numbers and cross-section designations on the maps and water surface profiles. Report data can be used by those people concerned in making decisions related to the use and management of flood plain areas.

INTERPRETATIONS AND RECOMMENDATIONS

Interpretations

The need for adequate channels to carry the flows of Jimmy Camp Creek and runoff from contributing areas has been recognized by city and county planners. Subdividers and developers are required to submit proposed drainage plans to the county planning commission for approval. In the past, drainage plans have been prepared singularly or on a plat-by-plat basis. Locations of potential flooding by various frequency

storms on Jimmy Camp Creek and its tributaries were not known until this flood hazard analyses was completed. The analyses can be used in developing a master drainage plan for the entire Jimmy Camp Creek watershed.

Primary purpose of this report is to provide maps of the flood hazard areas so that local governments can develop flood plain regulations. Flood plain resolutions were passed by the El Paso County Board of County Commissioners on February 8, 1973. Colorado Statutes (page 2) require approval of flood zone regulations by the Colorado Water Conservation Board. The 100-year flood line delineation should be useful when application is made for approval of flood zone regulations.

Recommendations

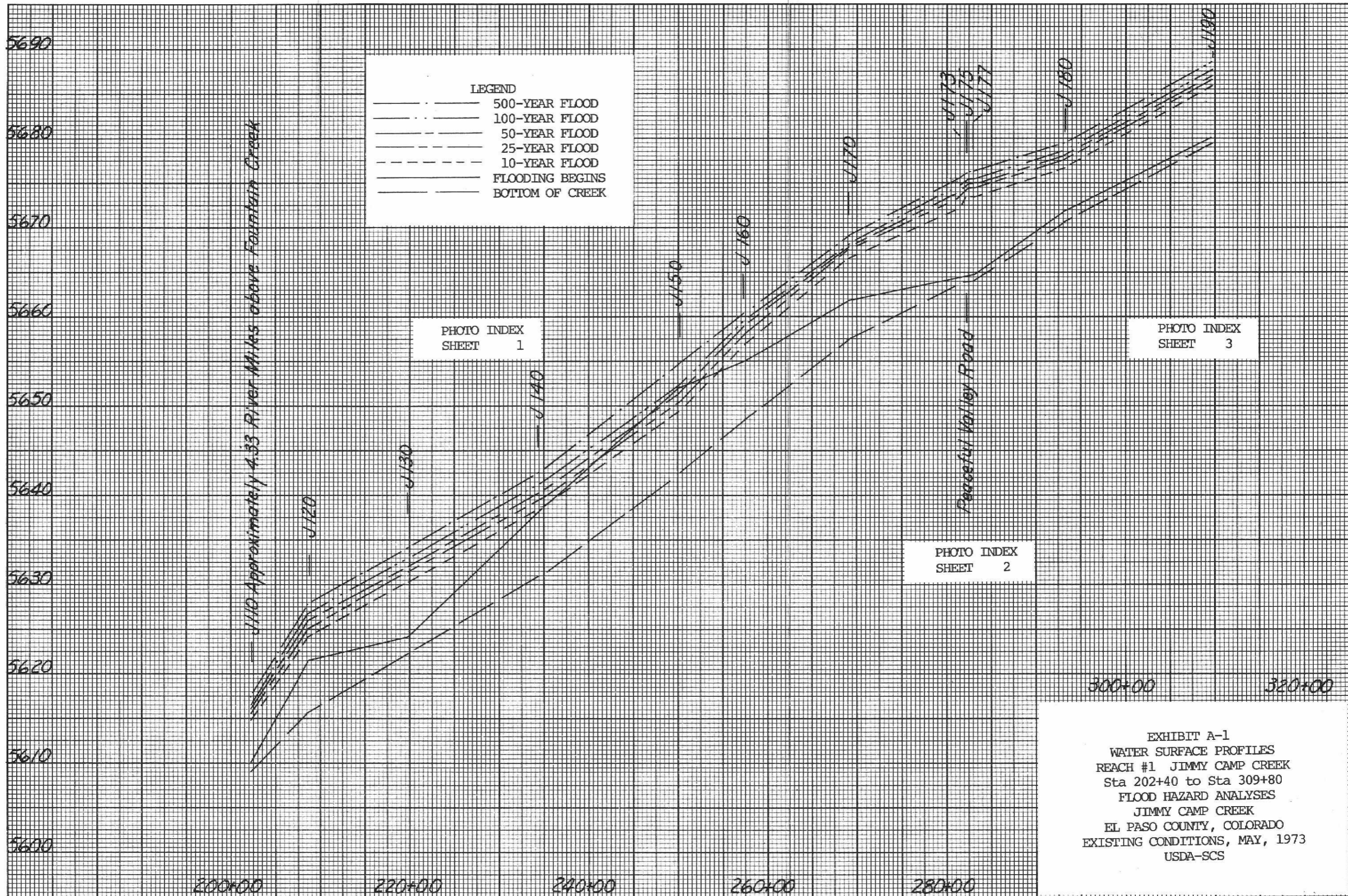
Through enforcement of flood zone regulations, new developments can be protected from potential flooding by keeping the developments out of flood hazard areas. Potential flood damages to existing developments and possible loss of life can be alleviated or lessened through several nonstructural means. Included are: flood warning and forecasting systems, flood fighting, and emergency evacuation.

The National Oceanic and Atmospheric Administration (NOAA) through its National Weather Service (NWS), maintains year-around surveillance of weather and flood conditions. Daily weather forecasts are issued through the NWS at Colorado Springs and disseminated by the local news media. A general alert to the danger of flash flooding is one of the services provided by the National Weather Service.

The "Colorado Springs/El Paso County Evacuation - Operations Plan" dated January 1967, provides for alerting the public of potential flooding and coordinating city and county services during an emergency. Urban areas and smaller communities could benefit by developing similar plans.

Plan implementation during the time of an emergency requires cooperation of the general public as well as local officials. This is especially important for flood fighting, evacuation, and rescue operations. Too often, an uninformed public becomes a detriment to emergency operations. It is recommended that public information and education programs on "Flood Hazards" be disseminated through the news media and be a part of the total community effort towards lessening the losses caused by flooding.

Elevation (MSL) - Feet



LEGEND

- 500-YEAR FLOOD
- 100-YEAR FLOOD
- 50-YEAR FLOOD
- 25-YEAR FLOOD
- 10-YEAR FLOOD
- FLOODING BEGINS
- BOTTOM OF CREEK

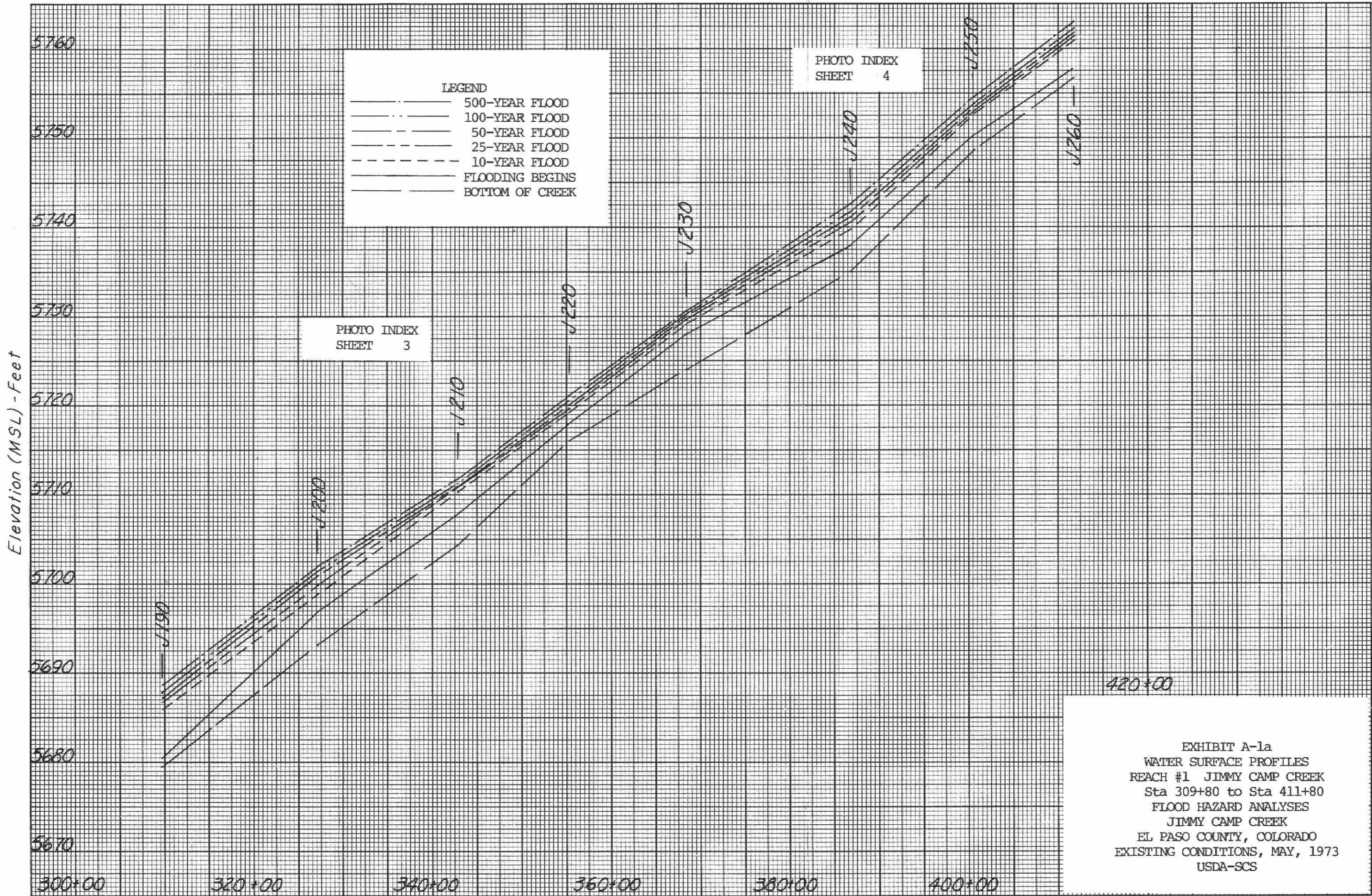
PHOTO INDEX SHEET 1

PHOTO INDEX SHEET 3

PHOTO INDEX SHEET 2

EXHIBIT A-1
WATER SURFACE PROFILES
REACH #1 JIMMY CAMP CREEK
Sta 202+40 to Sta 309+80
FLOOD HAZARD ANALYSES
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO
EXISTING CONDITIONS, MAY, 1973
USDA-SCS

Stationing - Feet (Distance Upstream From Mouth)



LEGEND

- 500-YEAR FLOOD
- - - 100-YEAR FLOOD
- · - · 50-YEAR FLOOD
- - - 25-YEAR FLOOD
- - - 10-YEAR FLOOD
- FLOODING BEGINS
- BOTTOM OF CREEK

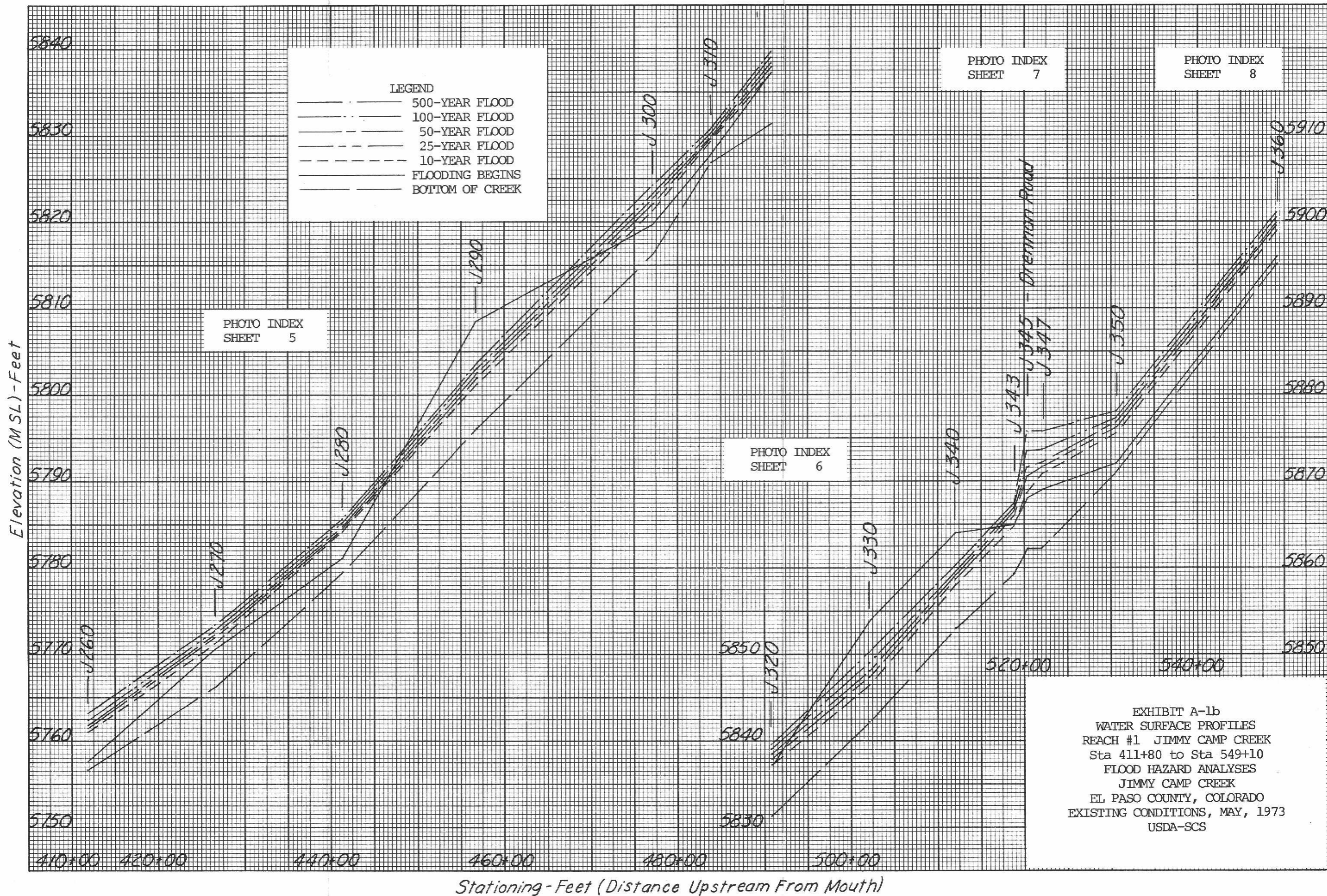
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SHEET 4

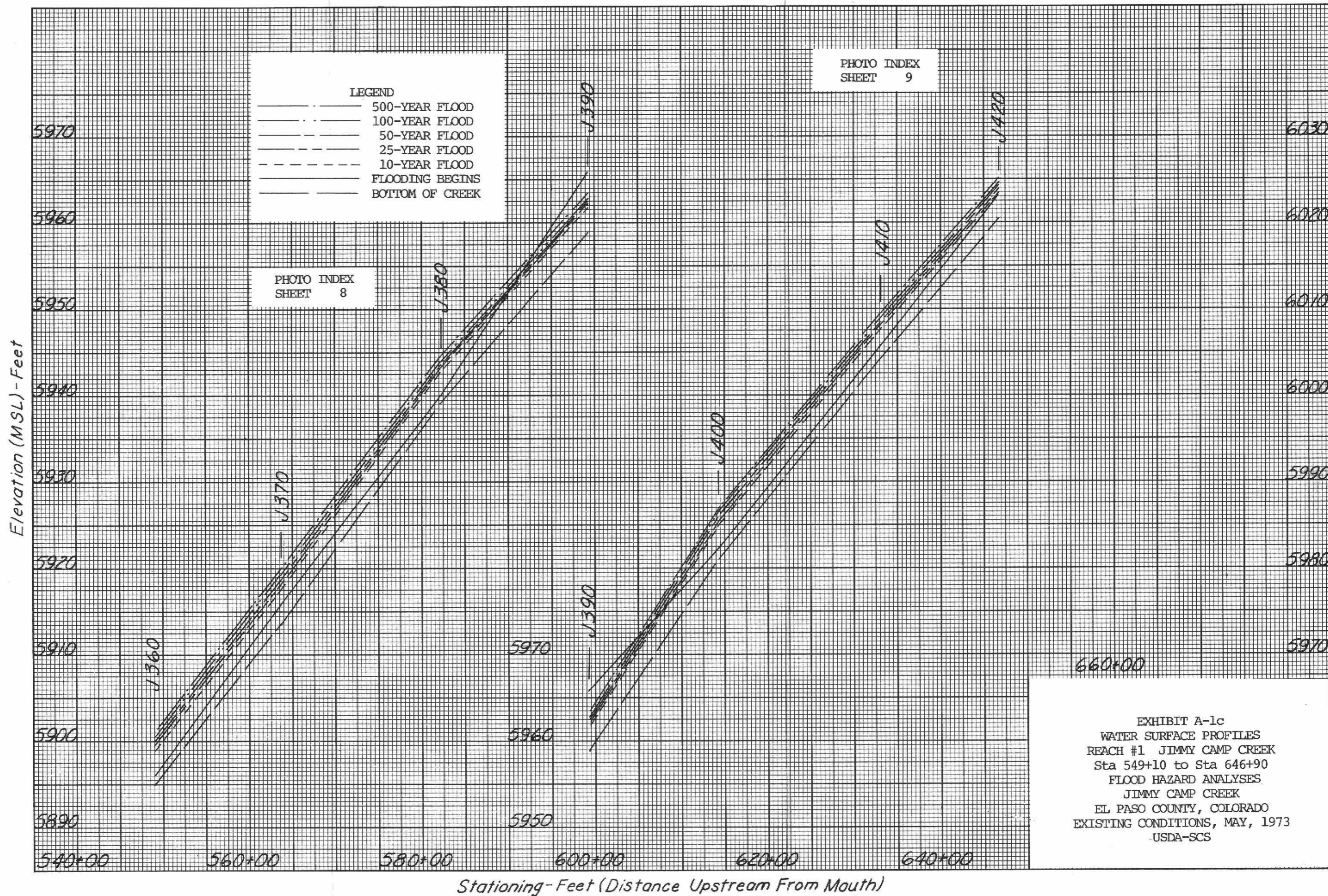
PHOTO INDEX
SHEET 3

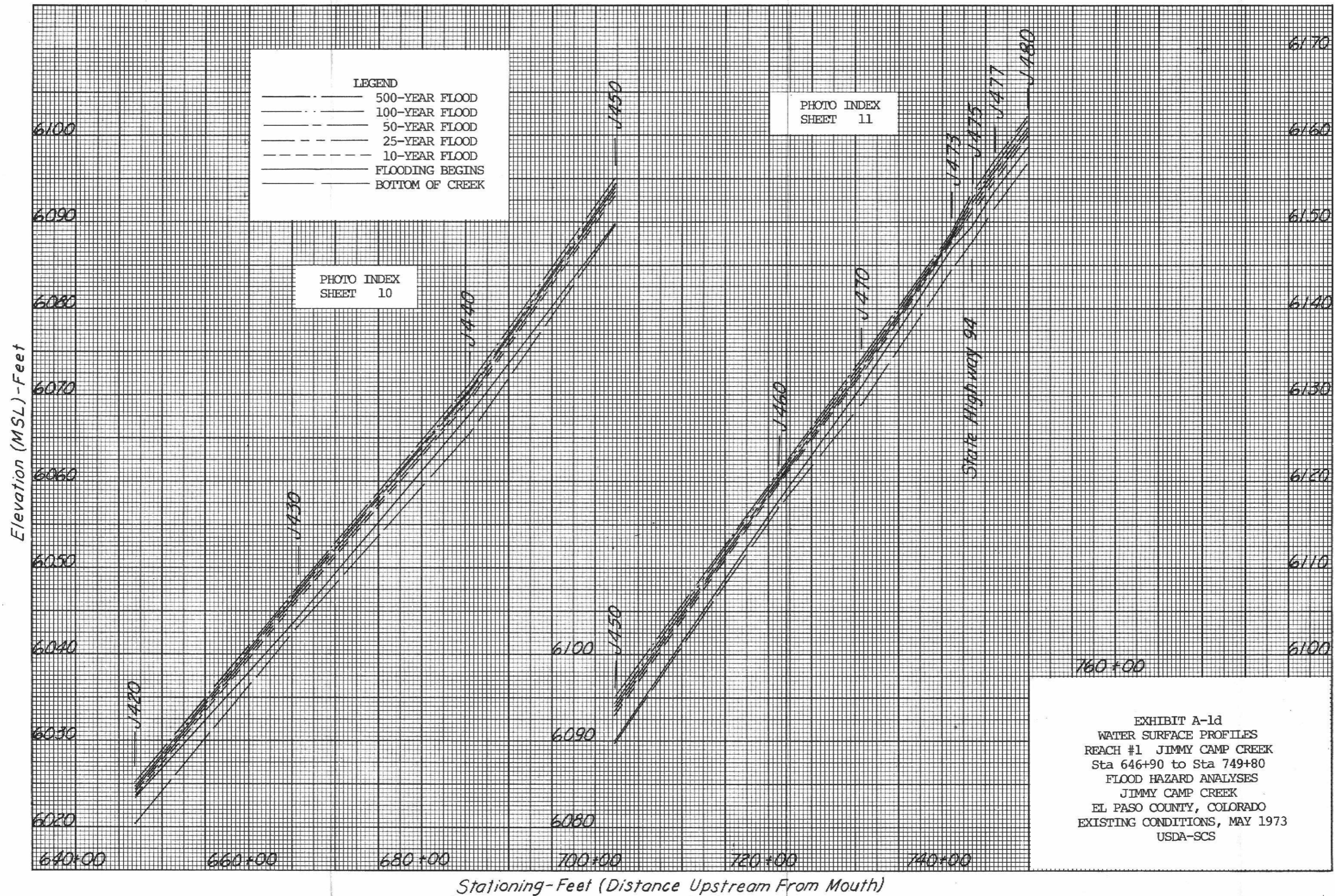
Elevation (MSL) - Feet

Stationing - Feet (Distance Upstream From Mouth)

EXHIBIT A-1a
 WATER SURFACE PROFILES
 REACH #1 JIMMY CAMP CREEK
 Sta 309+80 to Sta 411+80
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS







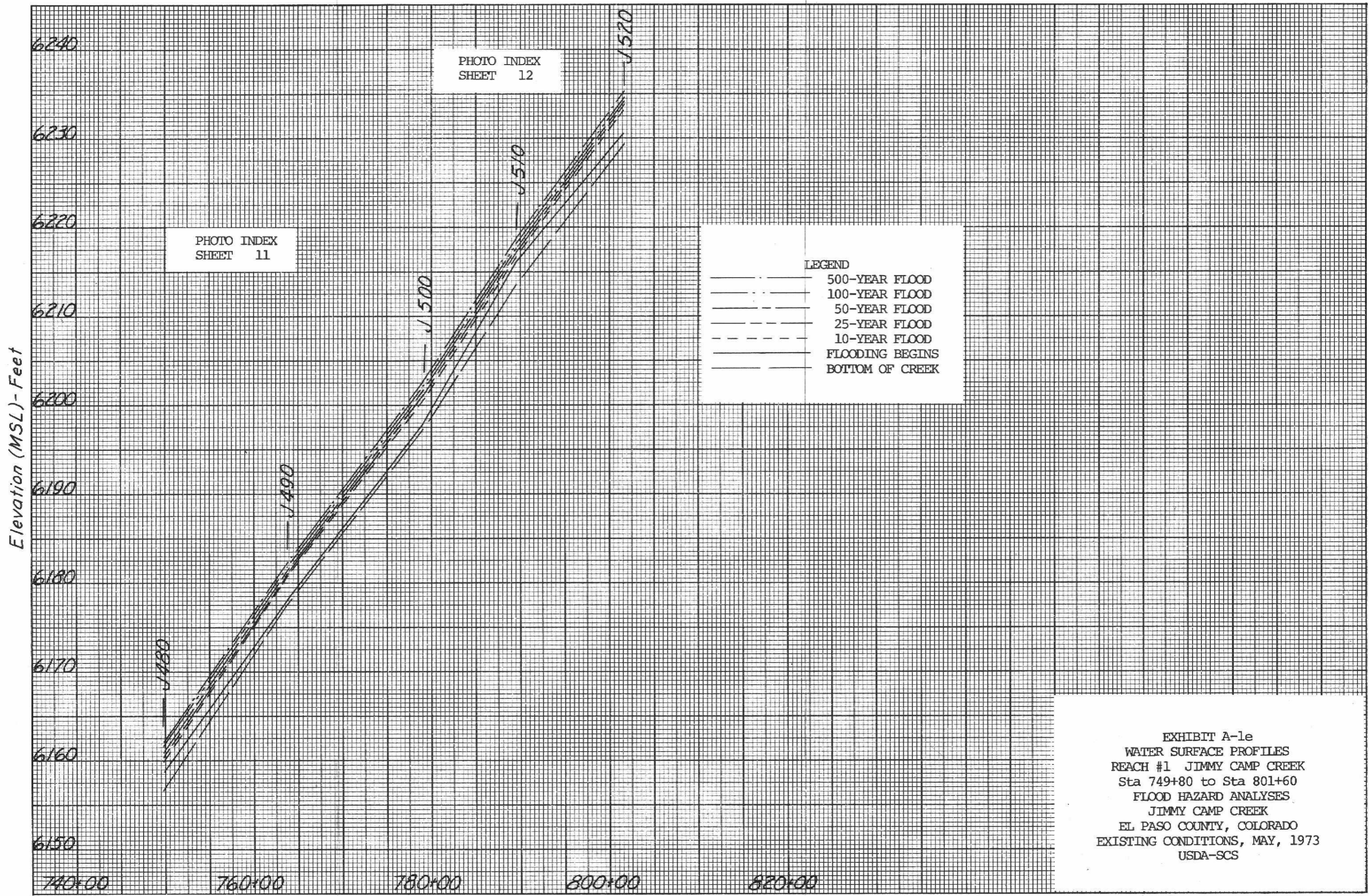


PHOTO INDEX
SHEET 12

PHOTO INDEX
SHEET 11

LEGEND

- — — — — 500-YEAR FLOOD
- · — · — 100-YEAR FLOOD
- - - - - 50-YEAR FLOOD
- · · · · 25-YEAR FLOOD
- - - - - 10-YEAR FLOOD
- — — — — FLOODING BEGINS
- — — — — BOTTOM OF CREEK

Elevation (MSL) - Feet

Stationing - Feet (Distance Upstream From Mouth)

EXHIBIT A-1e
 WATER SURFACE PROFILES
 REACH #1 JIMMY CAMP CREEK
 Sta 749+80 to Sta 801+60
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS

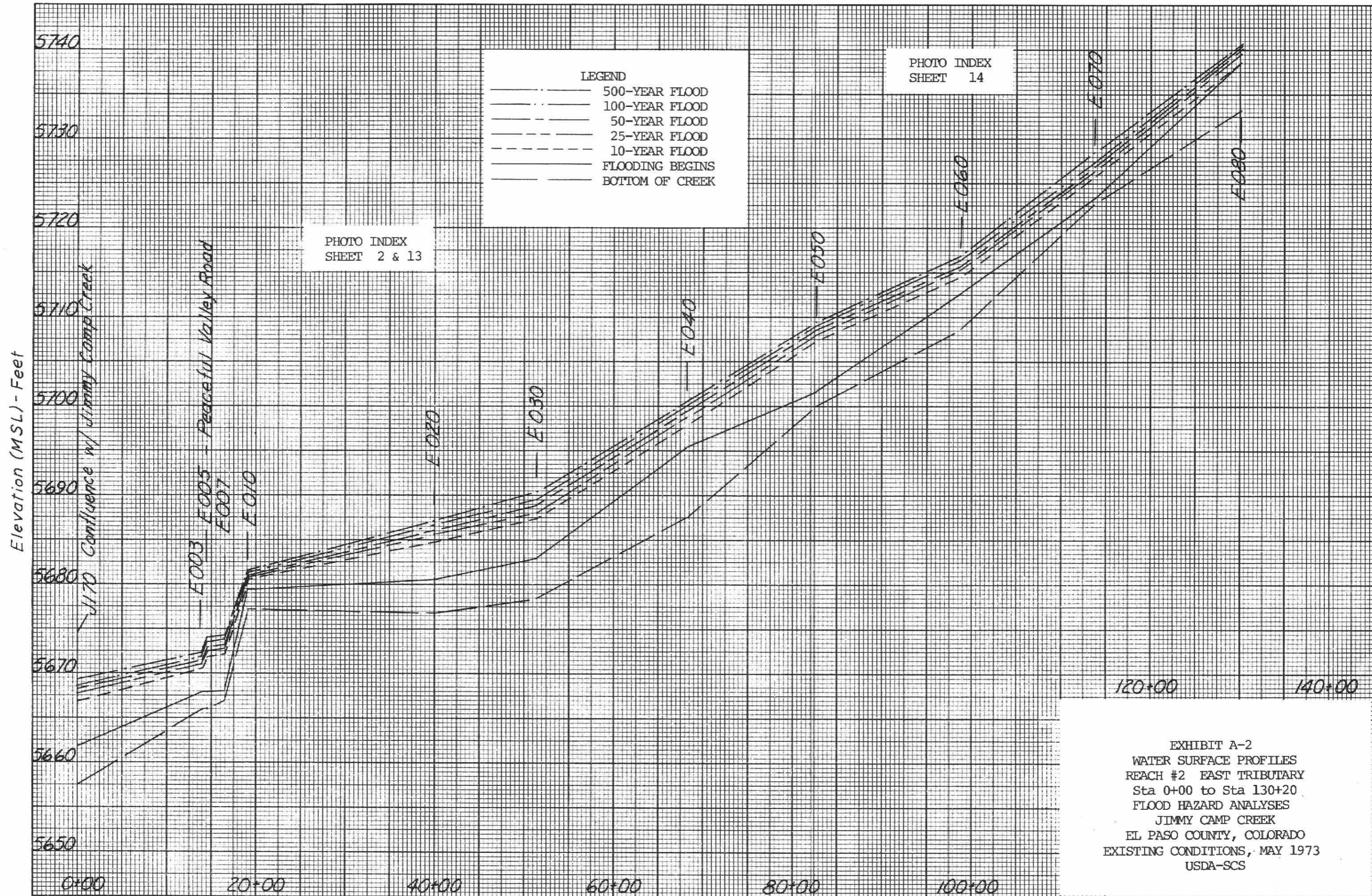
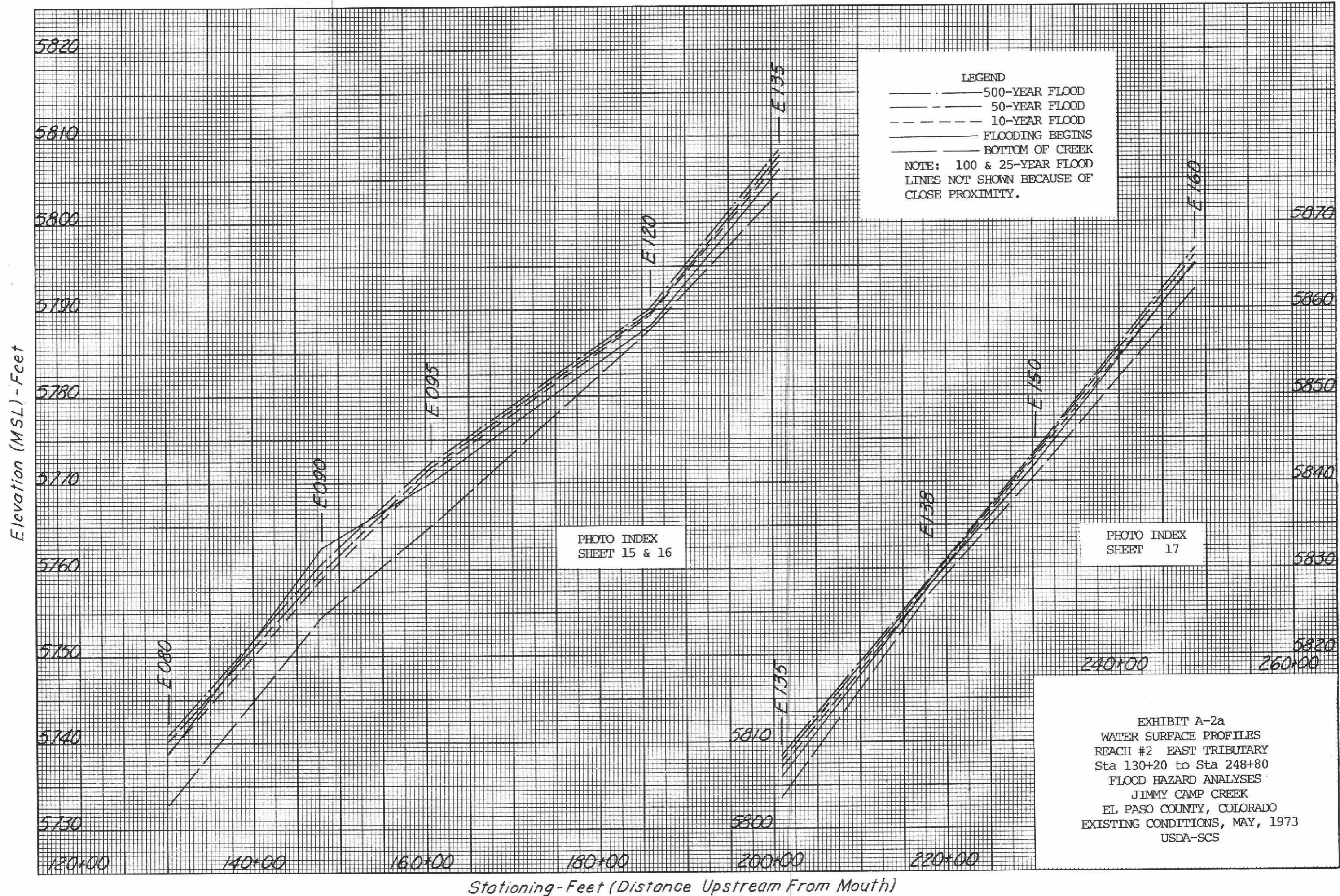


EXHIBIT A-2
 WATER SURFACE PROFILES
 REACH #2 EAST TRIBUTARY
 Sta 0+00 to Sta 130+20
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY 1973
 USDA-SCS

Stationing - Feet (Distance Upstream From Mouth)



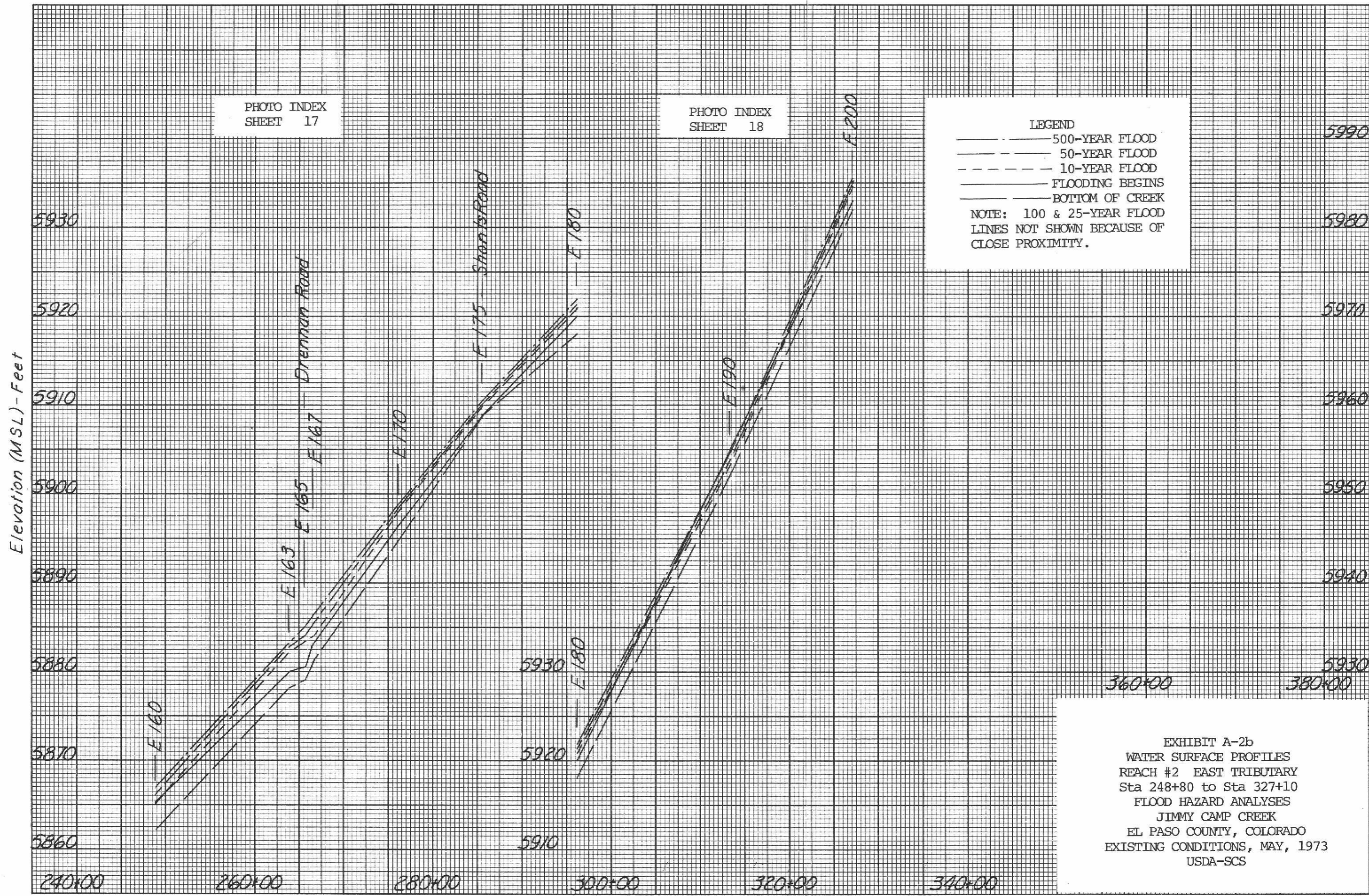


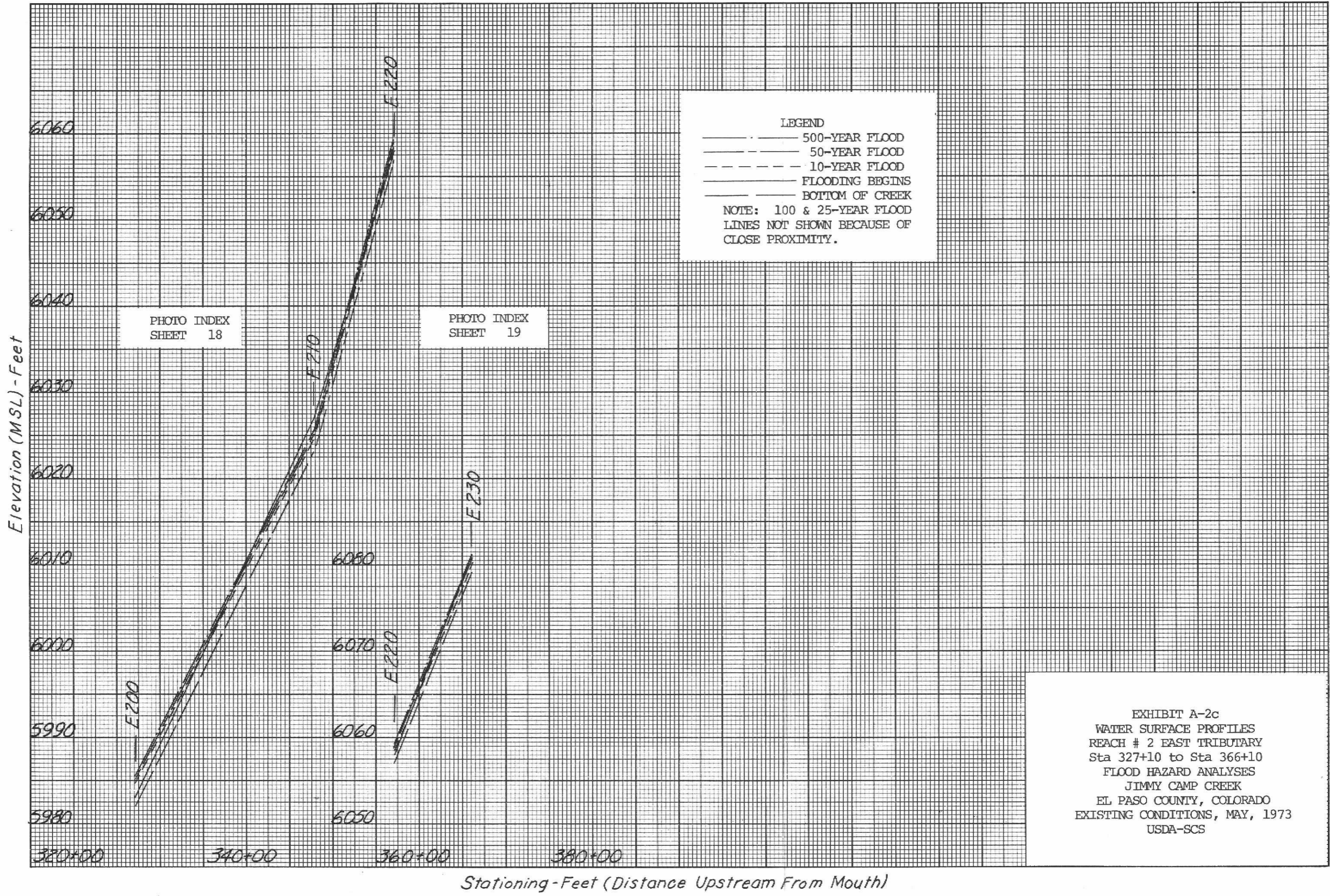
PHOTO INDEX SHEET 17

PHOTO INDEX SHEET 18

LEGEND
 - - - - - 500-YEAR FLOOD
 - - - - - 50-YEAR FLOOD
 - - - - - 10-YEAR FLOOD
 - - - - - FLOODING BEGINS
 - - - - - BOTTOM OF CREEK
 NOTE: 100 & 25-YEAR FLOOD LINES NOT SHOWN BECAUSE OF CLOSE PROXIMITY.

EXHIBIT A-2b
 WATER SURFACE PROFILES
 REACH #2 EAST TRIBUTARY
 Sta 248+80 to Sta 327+10
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS

Stationing-Feet (Distance Upstream From Mouth)



LEGEND

- 500-YEAR FLOOD
- 50-YEAR FLOOD
- 10-YEAR FLOOD
- FLOODING BEGINS
- BOTTOM OF CREEK

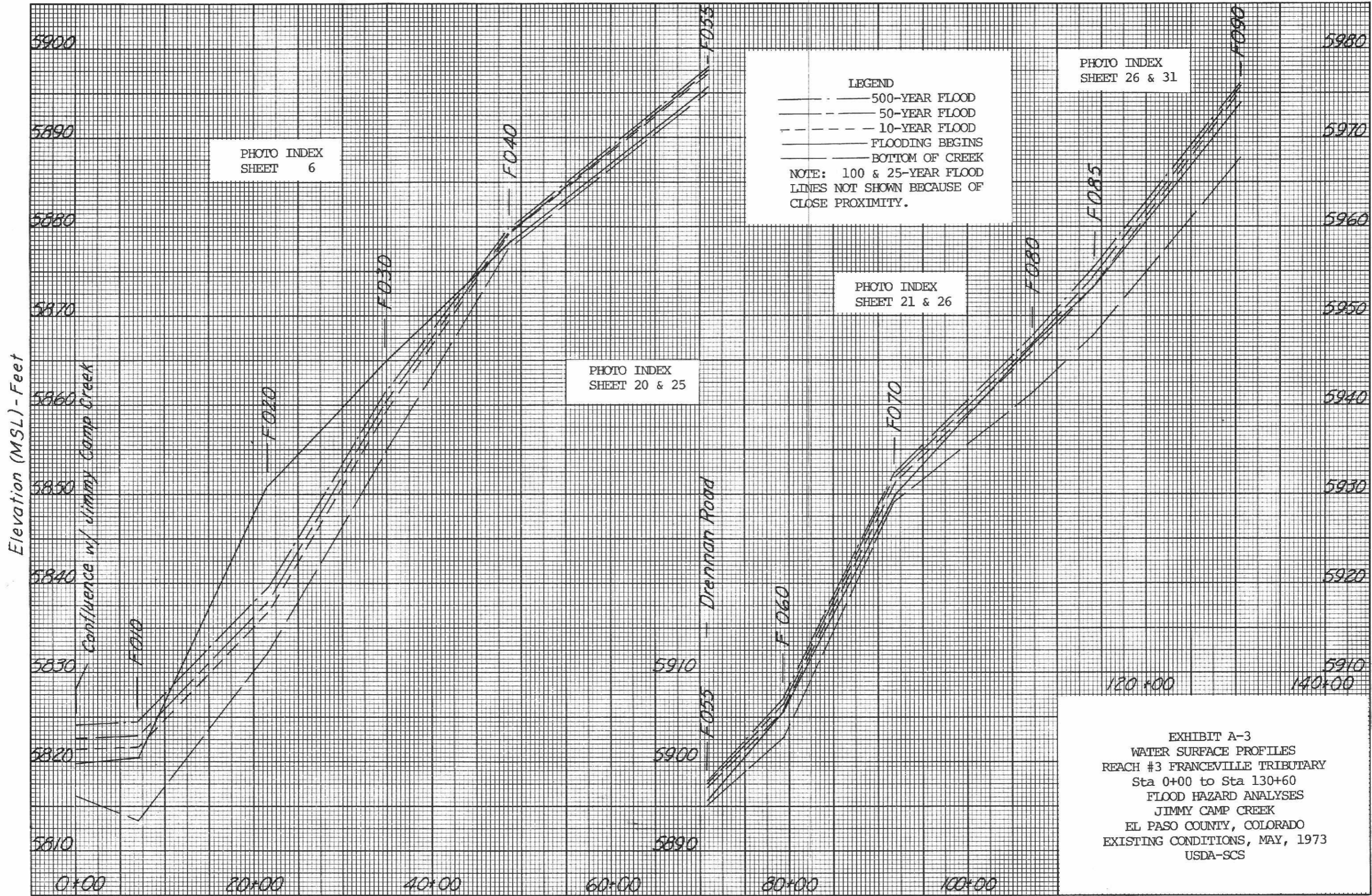
NOTE: 100 & 25-YEAR FLOOD LINES NOT SHOWN BECAUSE OF CLOSE PROXIMITY.

PHOTO INDEX SHEET 18

PHOTO INDEX SHEET 19

EXHIBIT A-2c
 WATER SURFACE PROFILES
 REACH # 2 EAST TRIBUTARY
 Sta 327+10 to Sta 366+10
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS

Stationing - Feet (Distance Upstream From Mouth)



LEGEND
 - - - - - 500-YEAR FLOOD
 - - - - - 50-YEAR FLOOD
 - - - - - 10-YEAR FLOOD
 - - - - - FLOODING BEGINS
 - - - - - BOTTOM OF CREEK
 NOTE: 100 & 25-YEAR FLOOD LINES NOT SHOWN BECAUSE OF CLOSE PROXIMITY.

EXHIBIT A-3
 WATER SURFACE PROFILES
 REACH #3 FRANCEVILLE TRIBUTARY
 Sta 0+00 to Sta 130+60
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS

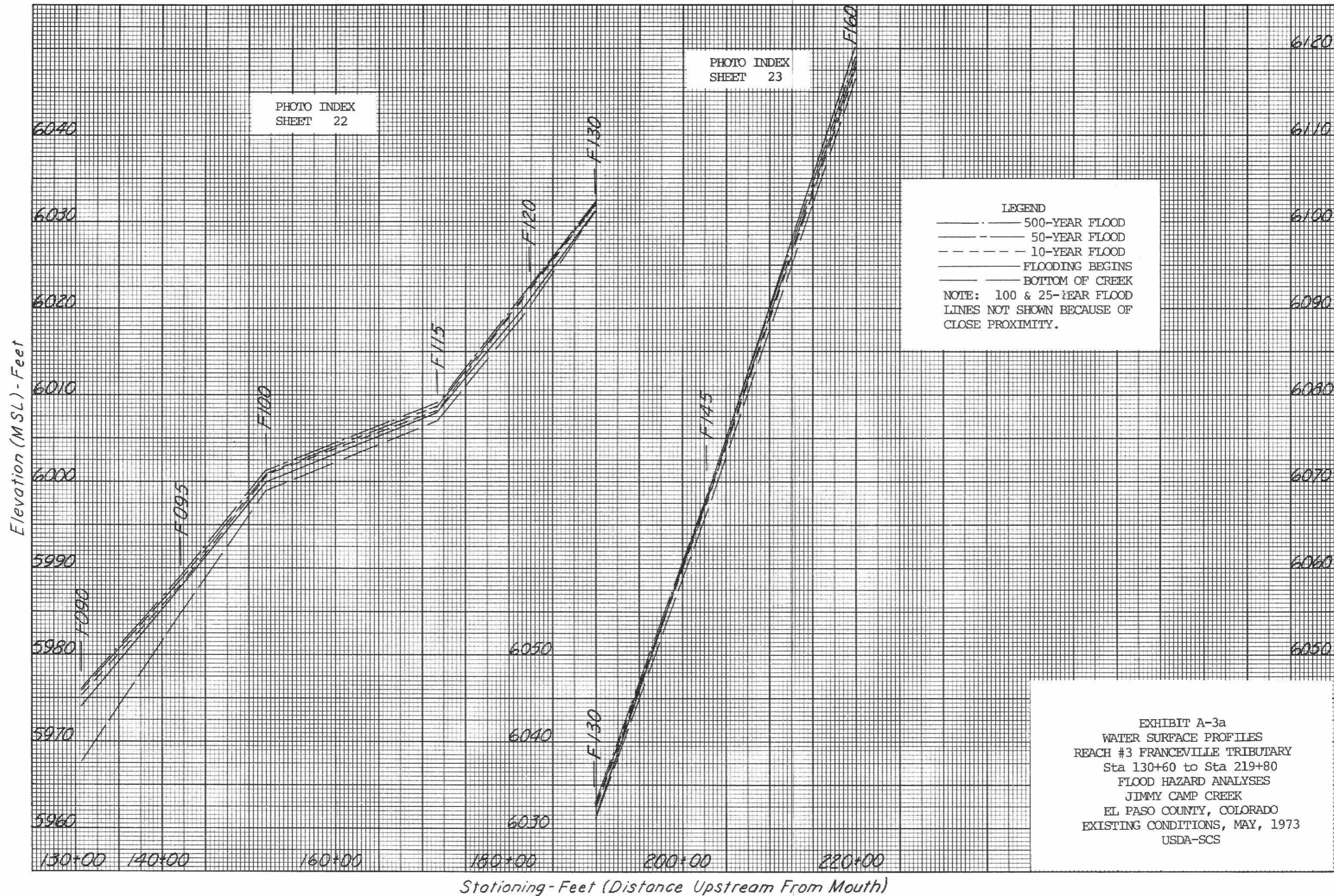


PHOTO INDEX
SHEET 22

PHOTO INDEX
SHEET 23

LEGEND
 ——— 500-YEAR FLOOD
 - - - 50-YEAR FLOOD
 . . . 10-YEAR FLOOD
 ——— FLOODING BEGINS
 - - - BOTTOM OF CREEK
 NOTE: 100 & 25-YEAR FLOOD
 LINES NOT SHOWN BECAUSE OF
 CLOSE PROXIMITY.

EXHIBIT A-3a
 WATER SURFACE PROFILES
 REACH #3 FRANCEVILLE TRIBUTARY
 Sta 130+60 to Sta 219+80
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS

Stationing - Feet (Distance Upstream From Mouth)

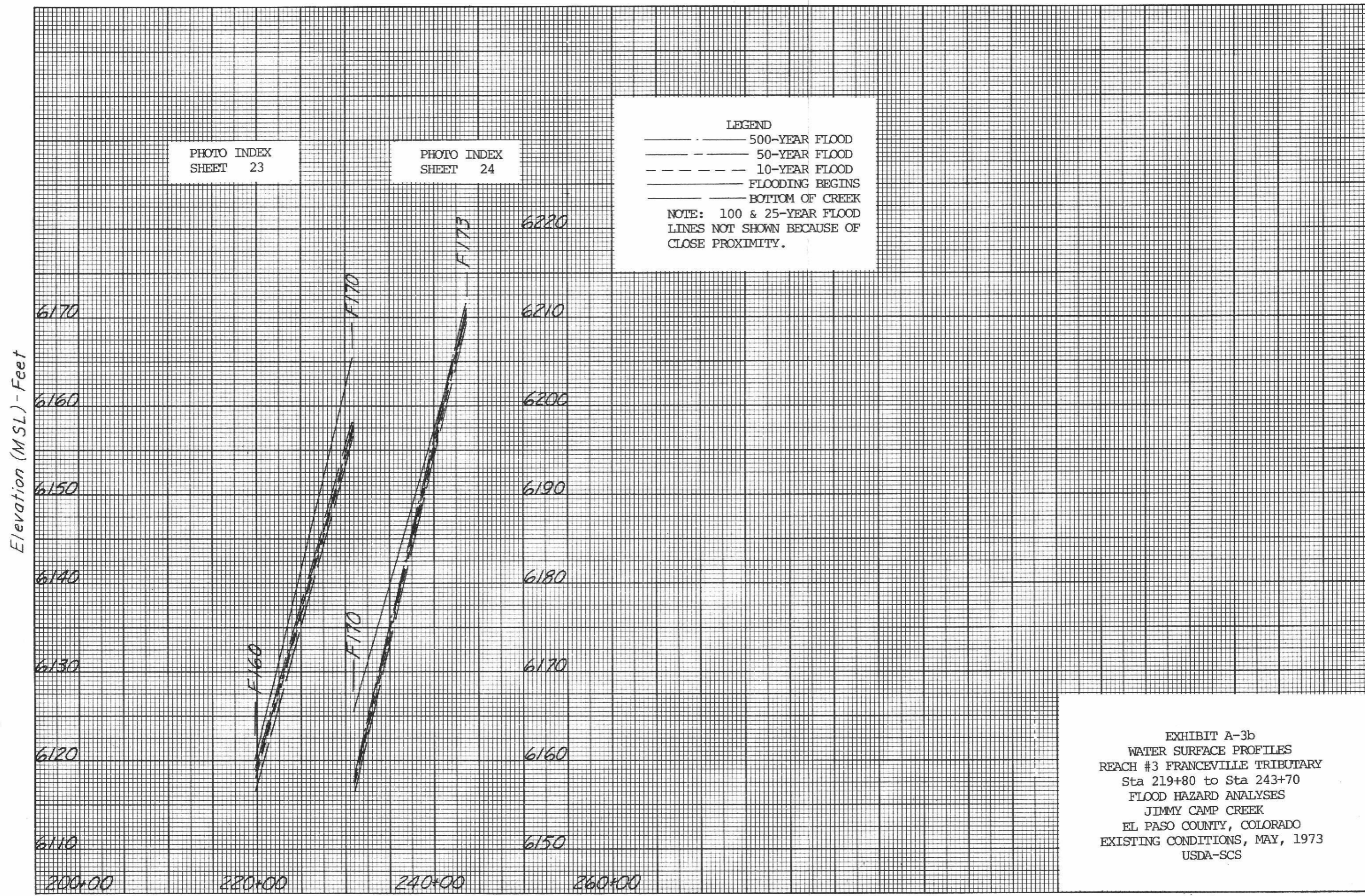


PHOTO INDEX
SHEET 23

PHOTO INDEX
SHEET 24

LEGEND
 - - - - - 500-YEAR FLOOD
 - - - - - 50-YEAR FLOOD
 - - - - - 10-YEAR FLOOD
 - - - - - FLOODING BEGINS
 - - - - - BOTTOM OF CREEK
 NOTE: 100 & 25-YEAR FLOOD
 LINES NOT SHOWN BECAUSE OF
 CLOSE PROXIMITY.

Elevation (MSL) - Feet

6170
6160
6150
6140
6130
6120
6110

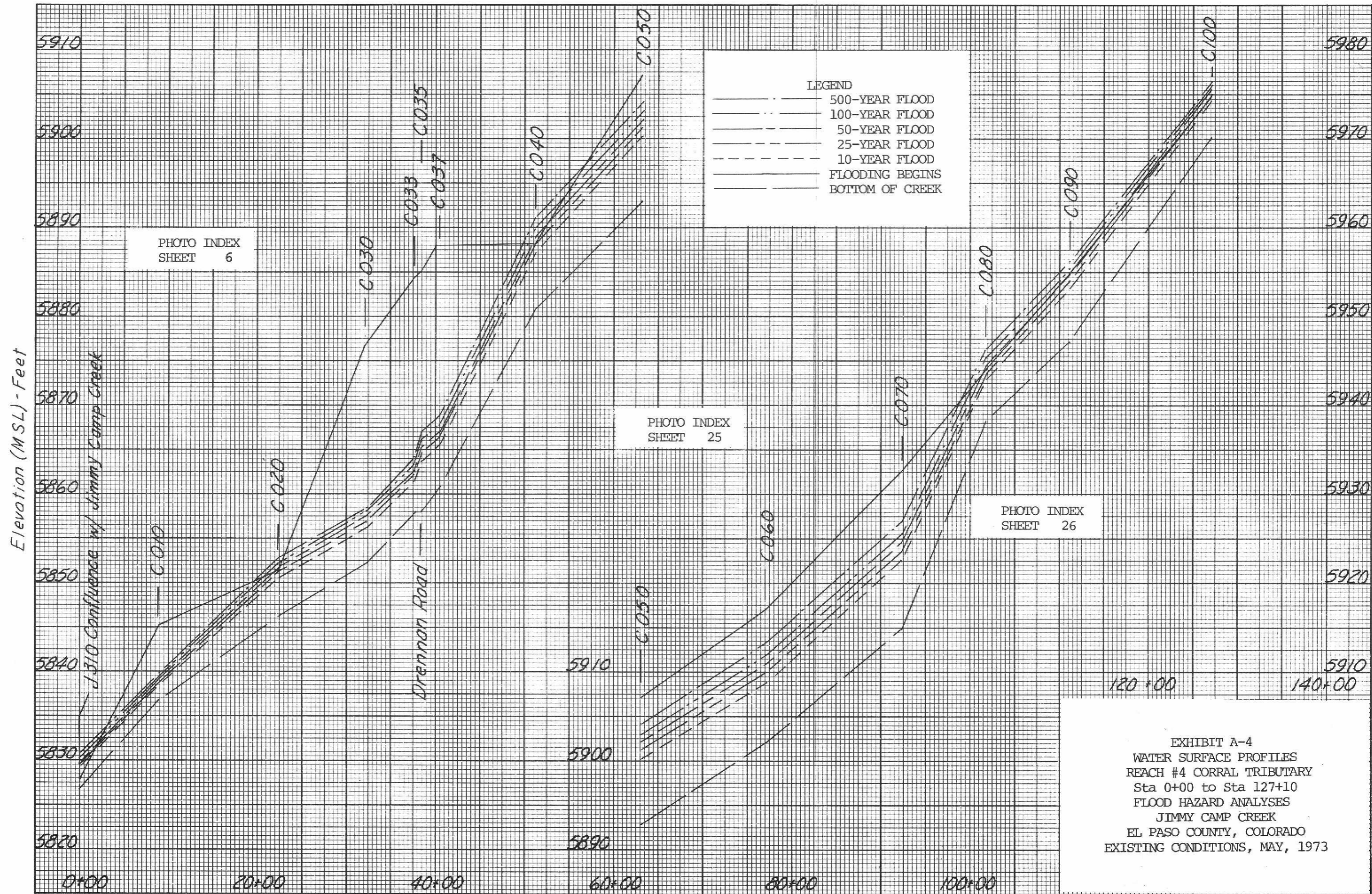
6220
6210
6200
6190
6180
6170
6160
6150

F160
F170
F175

200+00 220+00 240+00 260+00

Stationing - Feet (Distance Upstream From Mouth)

EXHIBIT A-3b
 WATER SURFACE PROFILES
 REACH #3 FRANCEVILLE TRIBUTARY
 Sta 219+80 to Sta 243+70
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS

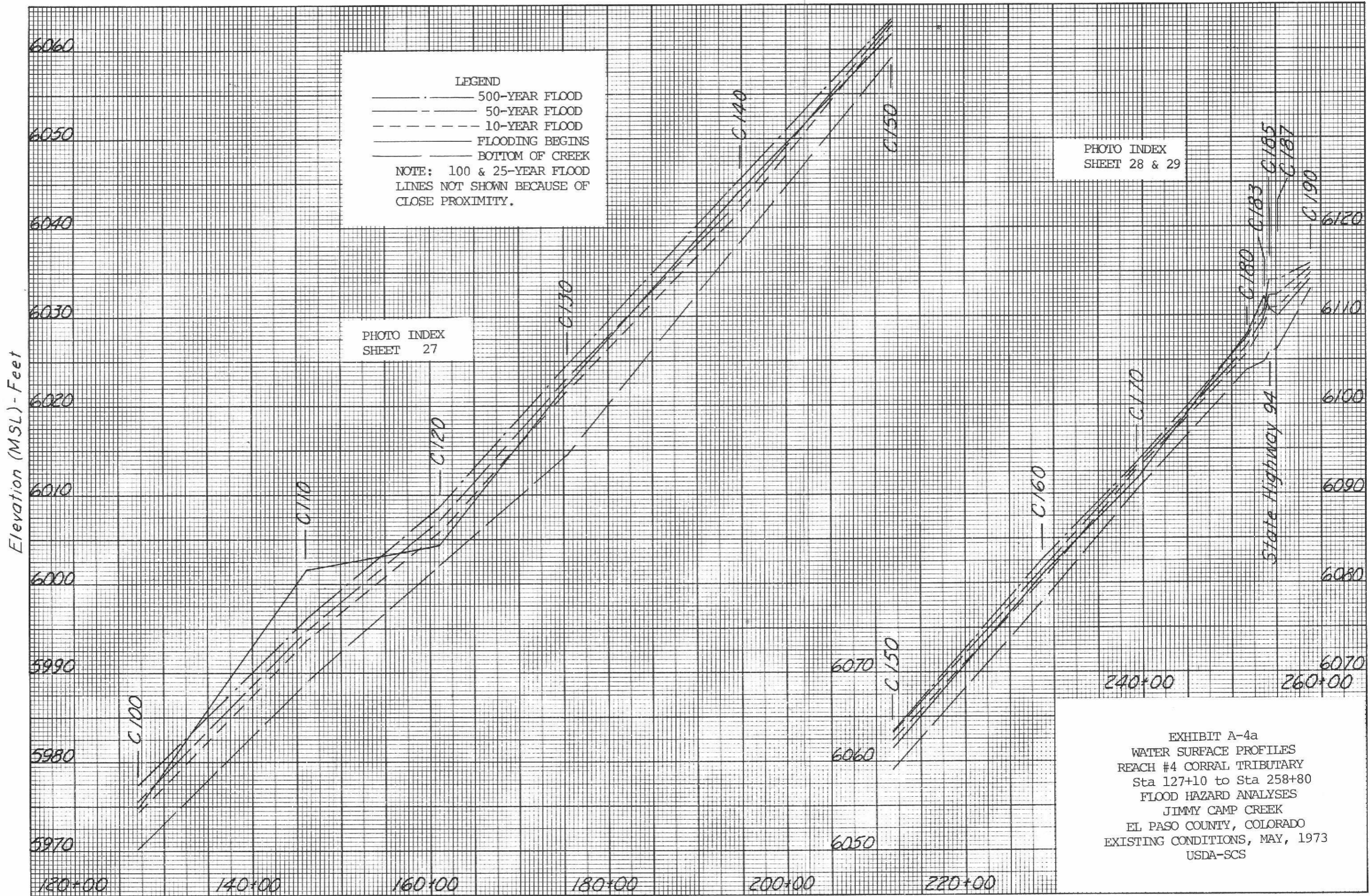


LEGEND

— (thick solid line)	500-YEAR FLOOD
... (dotted line)	100-YEAR FLOOD
— (thin solid line)	50-YEAR FLOOD
- - - (dashed line)	25-YEAR FLOOD
- · - · - (dash-dot line)	10-YEAR FLOOD
— (solid line)	FLOODING BEGINS
- - - (dashed line)	BOTTOM OF CREEK

EXHIBIT A-4
 WATER SURFACE PROFILES
 REACH #4 CORRAL TRIBUTARY
 Sta 0+00 to Sta 127+10
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973

Stationing - Feet (Distance Upstream From Mouth)



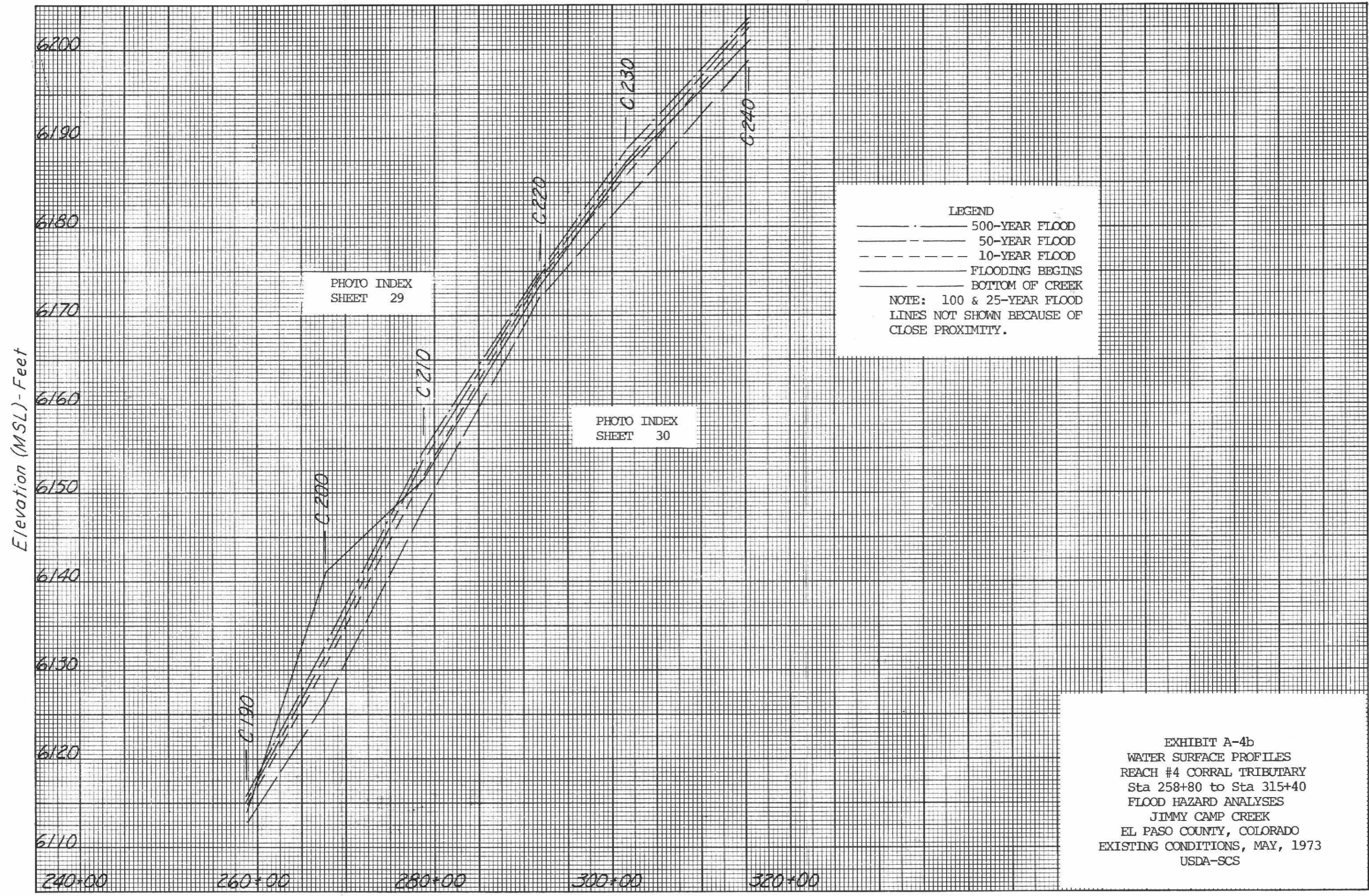
LEGEND
 - - - - - 500-YEAR FLOOD
 - - - - - 50-YEAR FLOOD
 - - - - - 10-YEAR FLOOD
 - - - - - FLOODING BEGINS
 - - - - - BOTTOM OF CREEK
 NOTE: 100 & 25-YEAR FLOOD
 LINES NOT SHOWN BECAUSE OF
 CLOSE PROXIMITY.

PHOTO INDEX
 SHEET 28 & 29

PHOTO INDEX
 SHEET 27

EXHIBIT A-4a
 WATER SURFACE PROFILES
 REACH #4 CORRAL TRIBUTARY
 Sta 127+10 to Sta 258+80
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS

Stationing - Feet (Distance Upstream From Mouth)



Elevation (MSL) - Feet

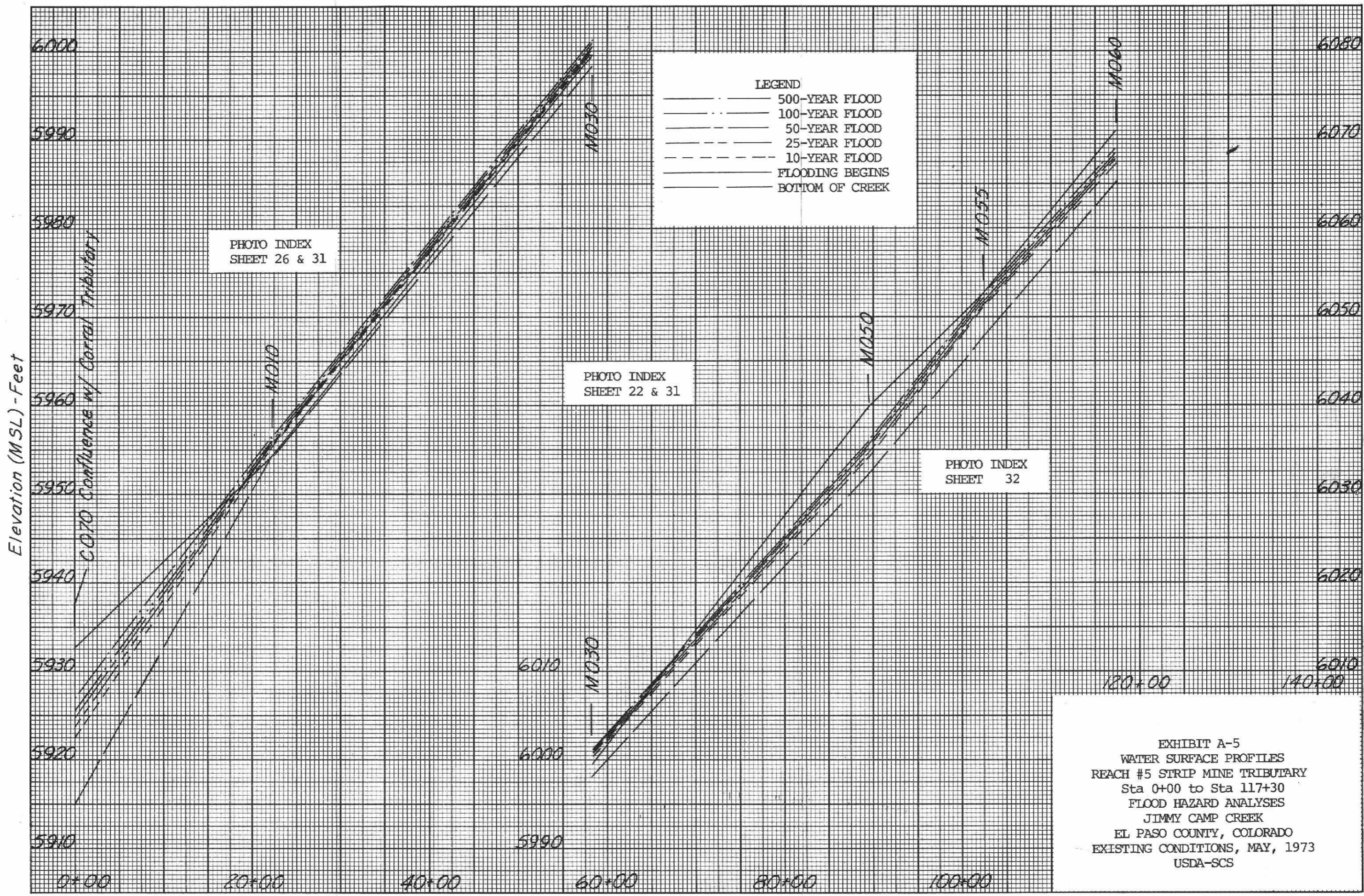
PHOTO INDEX SHEET 29

PHOTO INDEX SHEET 30

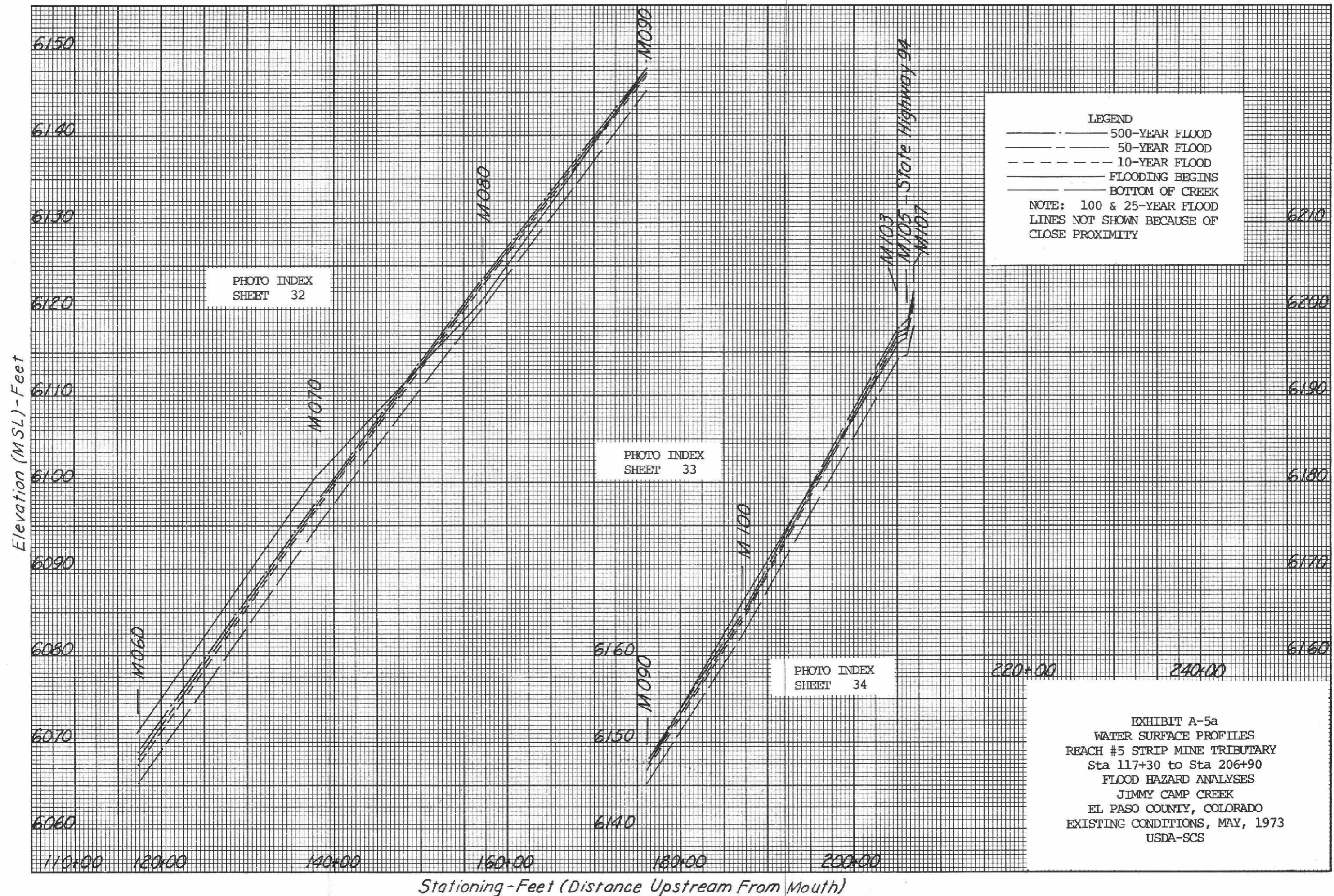
LEGEND
 - - - - - 500-YEAR FLOOD
 - - - - - 50-YEAR FLOOD
 - - - - - 10-YEAR FLOOD
 - - - - - FLOODING BEGINS
 - - - - - BOTTOM OF CREEK
 NOTE: 100 & 25-YEAR FLOOD LINES NOT SHOWN BECAUSE OF CLOSE PROXIMITY.

EXHIBIT A-4b
 WATER SURFACE PROFILES
 REACH #4 CORRAL TRIBUTARY
 Sta 258+80 to Sta 315+40
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS

Stationing - Feet (Distance Upstream From Mouth)



Stationing - Feet (Distance Upstream From Mouth)



LEGEND

- · — · — 500-YEAR FLOOD
- — — — — 50-YEAR FLOOD
- - - - - 10-YEAR FLOOD
- — — — — FLOODING BEGINS
- — — — — BOTTOM OF CREEK

NOTE: 100 & 25-YEAR FLOOD LINES NOT SHOWN BECAUSE OF CLOSE PROXIMITY

PHOTO INDEX SHEET 32

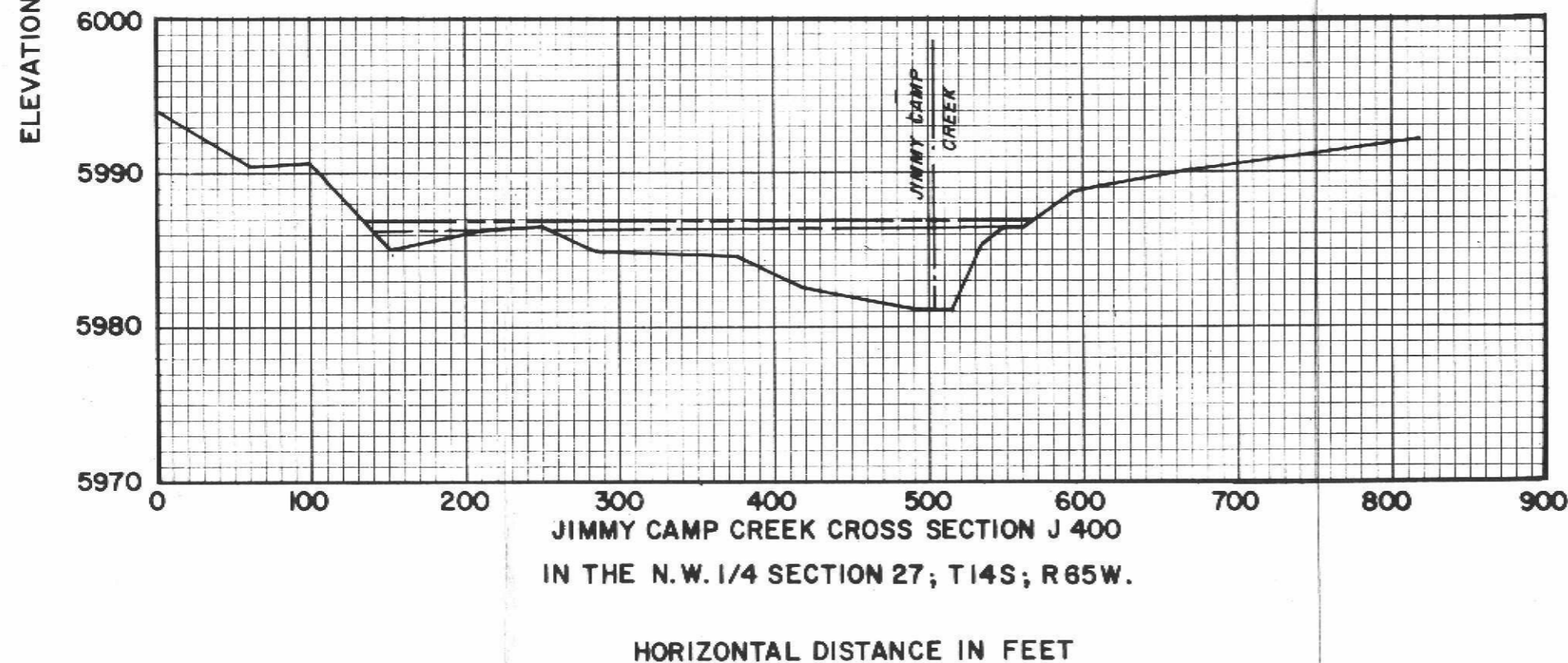
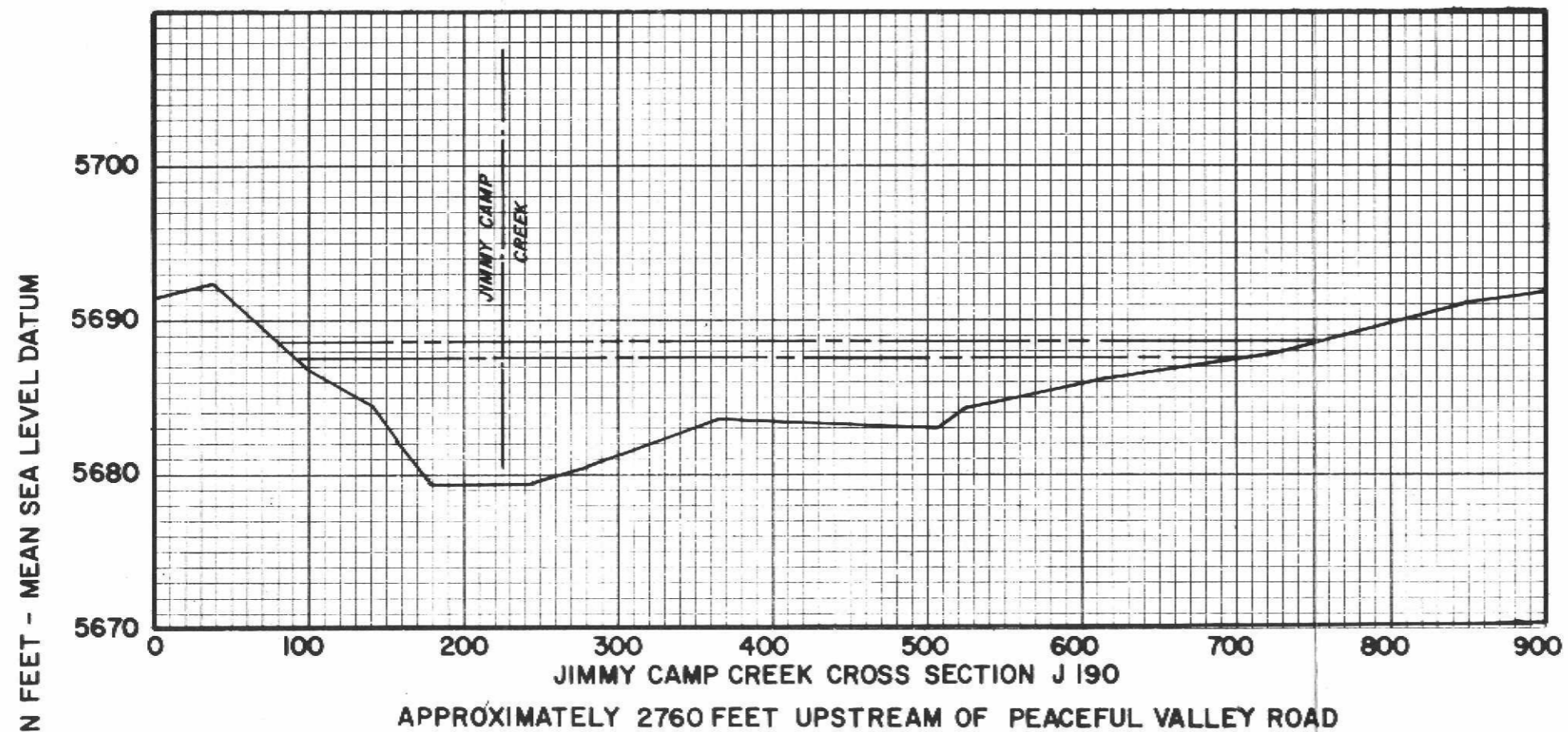
PHOTO INDEX SHEET 33

PHOTO INDEX SHEET 34

EXHIBIT A-5a
 WATER SURFACE PROFILES
 REACH #5 STRIP MINE TRIBUTARY
 Sta 117+30 to Sta 206+90
 FLOOD HAZARD ANALYSES
 JIMMY CAMP CREEK
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS

Elevation (MSL) - Feet

Stationing - Feet (Distance Upstream From Mouth)



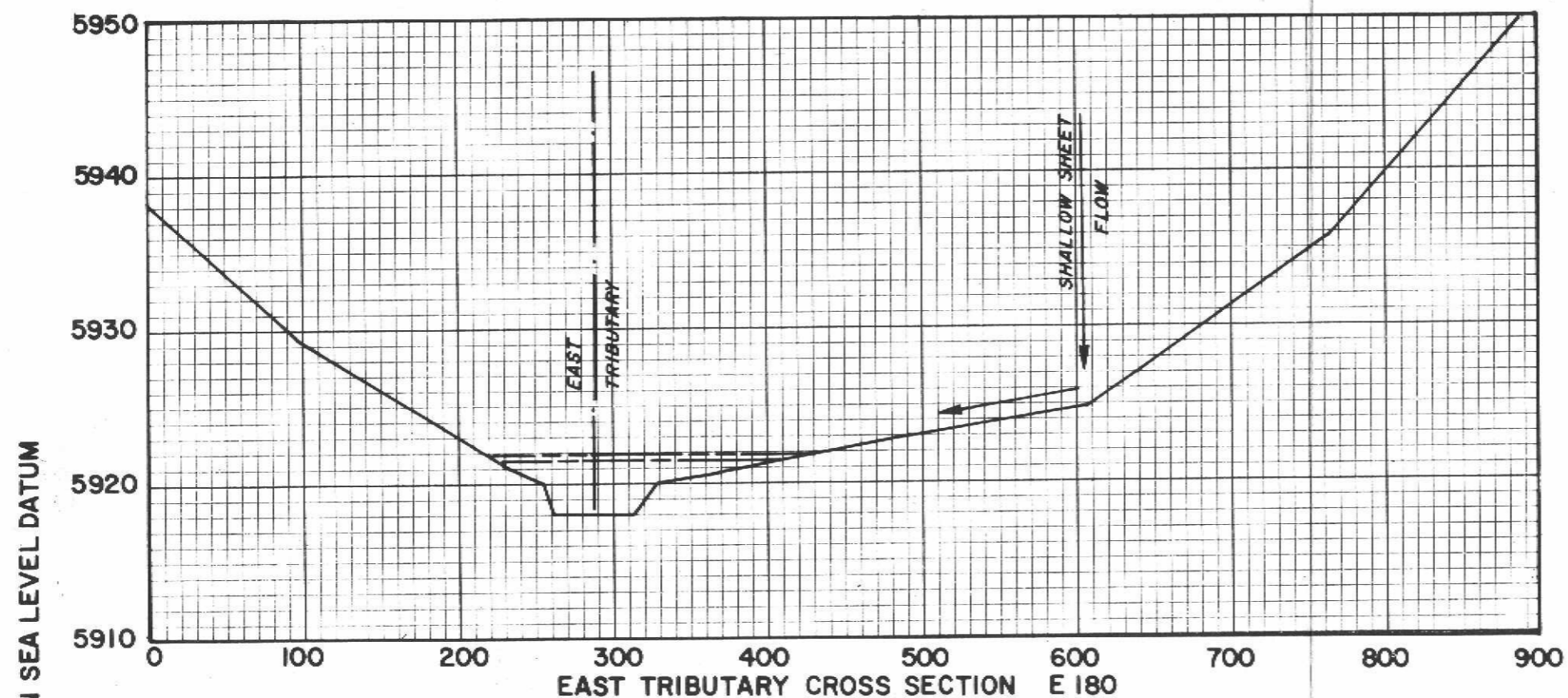
LEGEND

- 500 Year Flood
- . - . - . 100 Year Flood
- Approximate Ground Line

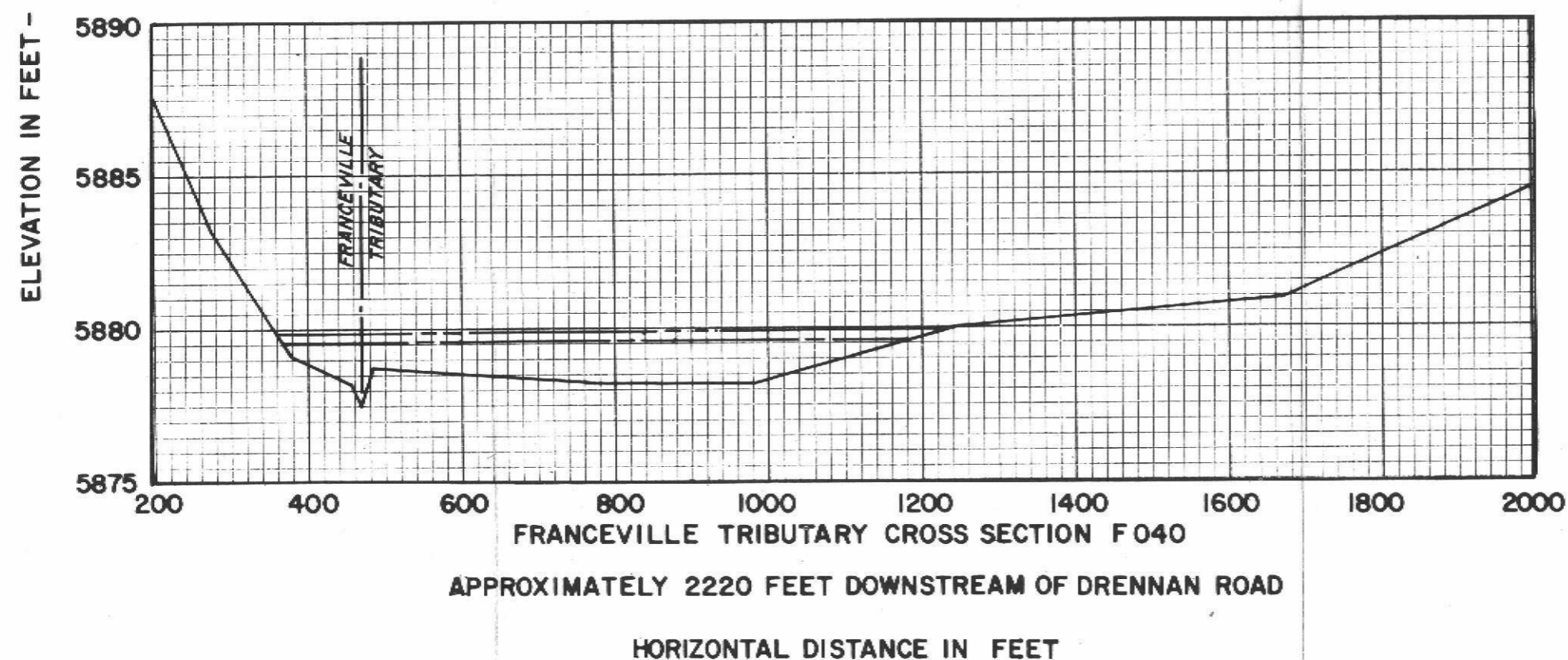
NOTE

Cross Sections are viewed in direction of flow.

EXHIBIT B-1
TYPICAL VALLEY CROSS SECTIONS
JIMMY CAMP CREEK
FLOOD HAZARD ANALYSES
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO
EXISTING CONDITIONS, MAY, 1973
USDA-SCS



APPROXIMATELY 1050 FEET UPSTREAM OF SHONTS ROAD.



APPROXIMATELY 2220 FEET DOWNSTREAM OF DRENNAN ROAD

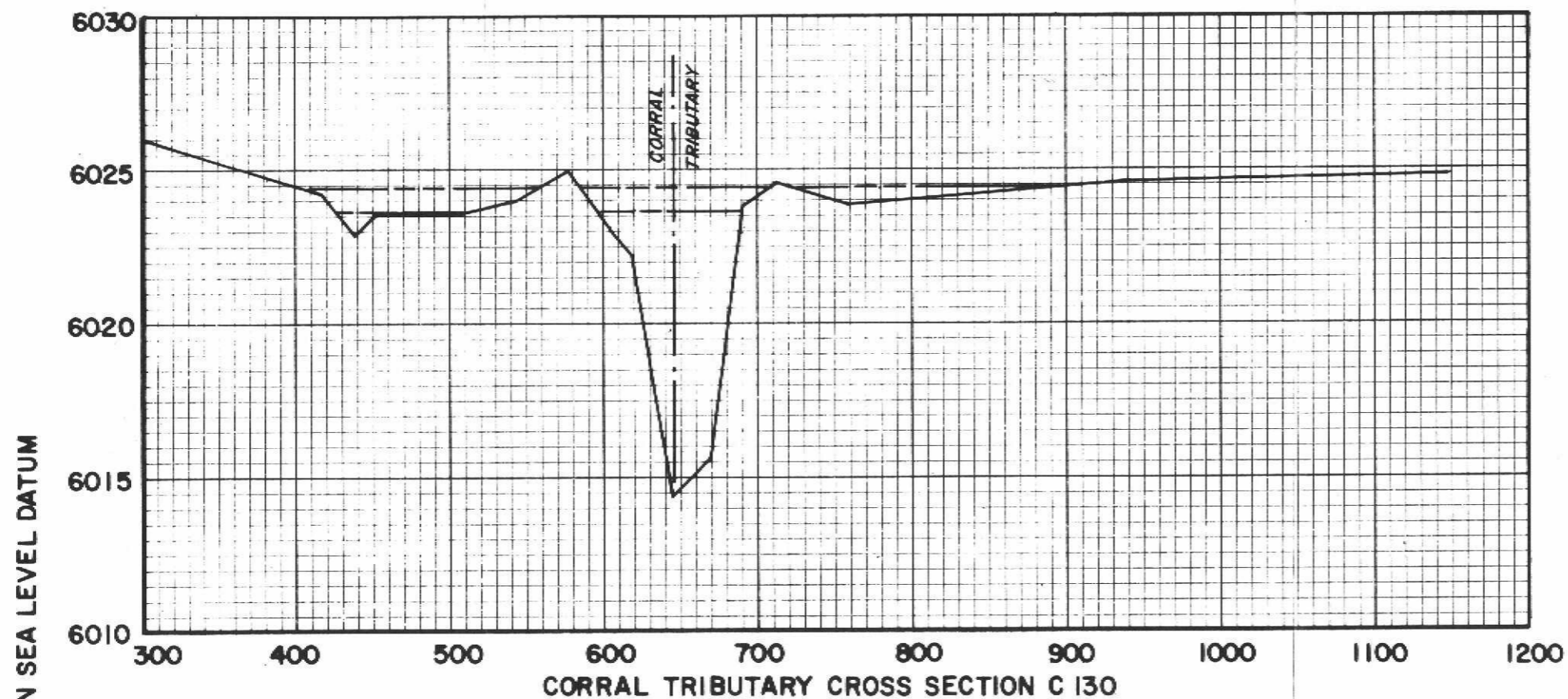
LEGEND

- 500 Year Flood
- - - - - 100 Year Flood
- Approximate Ground Line

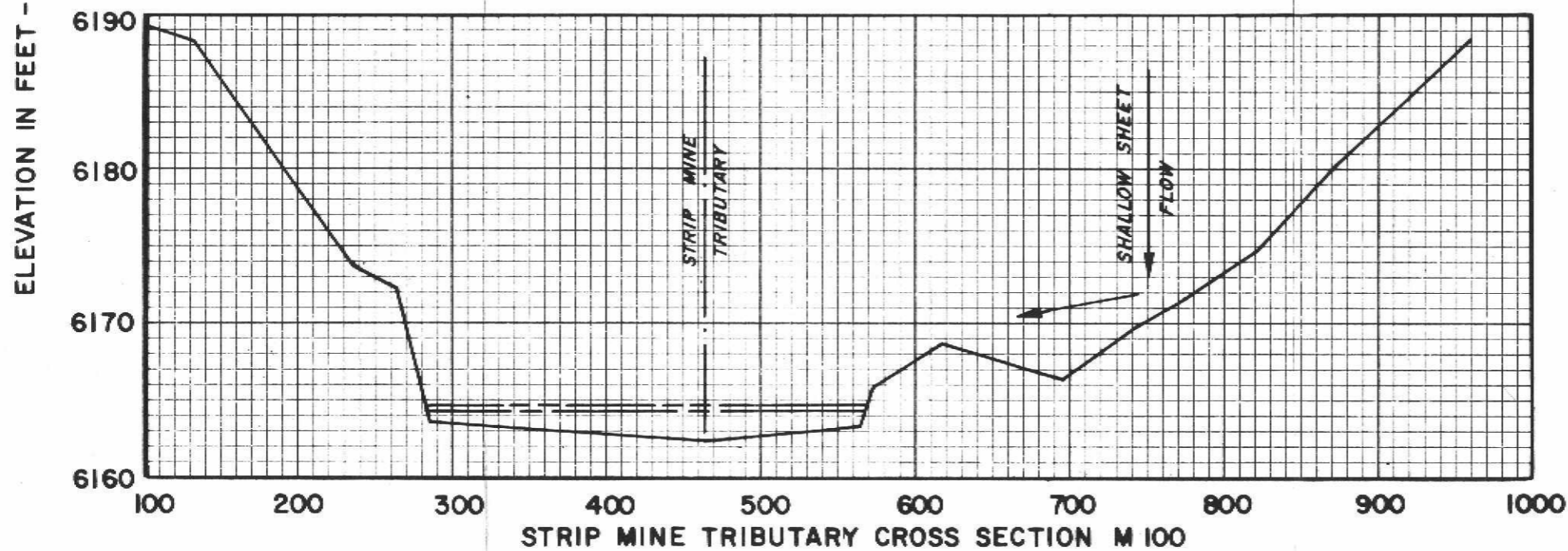
NOTE

Cross Sections are viewed in direction of flow.

EXHIBIT B-2
 TYPICAL VALLEY CROSS SECTIONS
 JIMMY CAMP CREEK
 FLOOD HAZARD ANALYSES
 EAST TRIBUTARY &
 FRANCEVILLE TRIBUTARY
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS



APPROXIMATELY 3500 FEET NORTH OF THE S.W. CORNER OF SECTION 24; T 14 S; R 65 W.



APPROXIMATELY 1900 FEET DOWNSTREAM OF STATE HIGHWAY 94.

HORIZONTAL DISTANCE IN FEET

LEGEND

- 500 Year Flood
- 100 Year Flood
- Approximate Ground Line

NOTE

Cross Sections are viewed in direction of flow.

EXHIBIT B-3
 TYPICAL VALLEY CROSS SECTIONS
 JIMMY CAMP CREEK
 FLOOD HAZARD ANALYSES
 CORRAL TRIBUTARY &
 STRIP MINE TRIBUTARY
 EL PASO COUNTY, COLORADO
 EXISTING CONDITIONS, MAY, 1973
 USDA-SCS

TABLE 1 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA 1/
 JIMMY CAMP CREEK, REACH 1

Cross-Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
J177	283+10		5664.1	5673.5 6,800	5674.4 9,000	5675.0 10,700	5675.7 12,900	5676.5 16,400
J180	293+20		5670.6	5676.9 6,800	5677.7 9,000	5678.3 10,700	5678.9 12,900	5679.6 16,400
J190	309+80		5679.4	5685.9 6,800	5686.7 9,000	5687.2 10,700	5687.7 12,900	5688.7 16,400
J200	327+20		5693.2	5698.9 6,800	5699.8 9,000	5700.9 10,700	5701.4 12,900	5702.0 16,400
J210	342+80		5704.4	5710.3 6,800	5710.9 9,000	5710.9 10,700	5711.3 12,900	5711.8 16,400
J220	355+30		5716.0	5719.2 6,600	5719.7 8,800	5720.1 10,500	5720.5 12,600	5721.1 16,100
J230	368+40		5724.0	5729.1 6,600	5729.7 8,800	5729.9 10,500	5730.2 12,600	5730.6 16,100
J240	386+80		5735.0	5739.8 6,600	5740.8 8,800	5741.1 10,500	5741.7 12,600	5742.5 16,100
J250	400+60		5748.7	5752.7 6,100	5753.2 8,100	5735.5 9,800	5753.9 11,800	5754.6 15,000
J260	411+80		5756.7	5761.0 6,100	5761.5 8,100	5761.9 9,800	5762.4 11,800	5763.1 15,000



TABLE 1

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA 1/
 JIMMY CAMP CREEK, REACH 1

Cross-Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
J110	202+40	Lower end of Study	5609.0	5614.9 7,700	5615.5 10,000	5616.0 12,200	5616.5 14,500	5617.3 18,700
J120	208+70		5615.6	5624.2 7,700	5625.2 10,000	5625.9 12,200	5626.7 14,500	5627.8 18,700
J130	219+90		5622.6	5630.2 7,700	5631.1 10,000	5631.8 12,200	5632.5 14,500	5633.5 18,700
J140	234+50		5631.0	5638.5 7,600	5639.5 10,000	5640.3 12,000	5641.2 14,300	5642.5 18,500
J150	250+20		5624.4	5649.3 7,600	5650.5 10,000	5651.4 12,000	5652.4 14,300	5654.9 18,500
J160	257+30		5648.2	5657.0 7,600	5658.1 10,000	5658.9 12,000	5659.7 14,300	5660.5 18,500
J170	269+10		5657.4	5666.8 7,600	5667.7 10,000	5668.1 12,000	5668.4 14,200	5669.3 18,300
J173	281+40		5663.7	5672.4 6,800	5673.3 9,000	5674.0 10,700	5674.8 12,900	5675.5 16,400
J175	282+20	Peaceful Valley Road	5664.1	5673.5 6,800	5674.3 9,000	5674.9 10,700	5675.6 12,900	5676.4 16,400

1/ Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 1 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
JIMMY CAMP CREEK, REACH 1

Cross-Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
J345	520+40	Drennan Road	5862.2	5868.5 3,600	5870.6 4,750	5871.6 5,900	5873.5 7,100	5875.7 9,000
J347	522+10		5862.2	5870.9 3,600	5871.6 4,750	5872.1 5,900	5873.6 7,100	5875.8 9,000
J350	530+60		5871.0	5875.5 3,600	5876.2 4,750	5876.8 5,900	5877.4 7,100	5878.2 9,000
J360	549+10		5895.0	5898.9 3,600	5899.5 4,750	5899.9 5,900	5900.4 7,100	5901.1 9,000
J370	563+60		5913.0	5917.5 3,550	5918.1 4,700	5918.7 5,700	5919.2 6,900	5920.1 8,700
J380	582+10		5939.0	5942.9 3,550	5943.3 4,700	5943.6 5,700	5944.0 6,900	5944.5 8,700
J390	599+30		5959.0	5961.8 3,400	5962.2 4,400	5962.6 5,400	5962.9 6,600	5963.5 8,300
J400	614+40		5981.0	5985.1 3,300	5985.5 4,300	5986.0 5,300	5986.4 6,400	5986.9 8,100
J410	633+20		6004.4	6007.8 3,300	6008.2 4,300	6008.6 5,300	6008.9 6,400	6009.5 8,100
J420	646+90		6020.4	6023.7 3,300	6024.1 4,300	6024.4 5,300	6024.7 6,400	6025.1 8,100

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 1 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
JIMMY CAMP CREEK, REACH 1

Cross-Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
J270	426+60		5766.2	5771.4 6,100	5772.0 8,100	5772.3 9,800	5772.8 11,800	5773.5 15,000
J280	441+30		5779.5	5784.2 6,100	5784.5 8,100	5784.8 9,800	5785.1 11,800	5785.6 15,000
J290	456+90		5796.0	5801.2 6,100	5801.9 8,100	5802.5 9,800	5803.1 11,800	5803.9 15,000
J300	477+10		5816.2	5821.4 6,000	5822.1 7,900	5822.6 9,500	5823.3 11,400	5824.2 14,800
J310	483+80		5826.7	5829.3 5,600	5829.6 7,500	5829.9 9,000	5830.2 10,700	5830.7 13,800
J320	490+80		5831.2	5837.2 3,850	5837.9 5,000	5838.4 6,100	5839.0 7,400	5839.6 9,500
J330	502+20		5842.2	5846.5 3,600	5847.4 4,750	5848.1 5,900	5849.0 7,100	5850.2 9,000
J340	512+10		5853.0	5858.1 3,600	5858.6 4,750	5859.2 5,900	5859.6 7,100	5860.3 9,000
J343	518+80		5859.4	5864.8 3,600	5866.0 4,750	5866.5 5,900	5867.0 7,100	5867.4 9,000

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 1 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA 1/

JIMMY CAMP CREEK, REACH 1

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
J500	799+20		6179.4	6200.7 2,650	6201.2 3,500	6201.7 4,300	6202.2 5,200	6202.7 6,600
J510	789+60		6213.6	6216.9 2,650	6217.4 3,500	6217.8 4,300	6218.3 5,200	6218.9 6,600
J520	801+60		6229.4	6233.2 2,650	6233.7 3,500	6234.2 4,300	6234.5 5,200	6235.2 6,600

1/ Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 1 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA 1/

JIMMY CAMP CREEK, REACH 1

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
J430	665+70		6043.2	6046.4 3,200	6046.8 4,200	6047.2 5,200	6047.4 6,200	6047.9 7,900
J440	685+50		6065.4	6069.2 3,200	6069.7 4,200	6070.2 5,200	6070.6 6,200	6071.3 7,900
J450	702+30		6089.8	6093.0 3,000	6093.5 3,800	6094.0 4,700	6094.4 5,800	6095.0 7,300
J460	721+10		6117.0	6119.9 3,000	6120.0 3,800	6120.3 4,700	6120.6 5,800	6121.0 7,300
J470	730+60		6128.8	6132.2 3,000	6132.6 3,800	6133.1 4,700	6133.5 5,800	6134.0 7,300
J473	741+10		6144.5	6147.7 2,800	6148.0 3,650	6148.4 4,500	6148.6 5,500	6148.8 6,900
J475	743+50	State Highway 94	6147.8	6151.1 2,800	6151.6 3,650	6152.1 4,500	6152.6 5,500	6153.3 6,900
J477	746+00		6151.5	6154.7 2,800	6155.2 3,650	6155.7 4,500	6156.2 5,500	6157.0 6,900
J480	749+80		6156.6	6159.8 2,800	6160.4 3,650	6160.9 4,500	6161.6 5,500	6162.1 6,900
J490	763+80		6177.6	6180.8 2,800	6181.2 3,650	6181.5 4,500	6181.7 5,500	6182.3 6,900

1/ Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 2

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
EAST TRIBUTARY, REACH 2

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
J170	0+00	Confluence with Jimmy Camp Creek	5757.4	5666.8 2,800	5667.7 3,700	5668.1 4,600	5668.4 5,500	5669.3 6,900
E003	13+80		5665.8	5670.4 2,800	5670.9 3,700	5671.3 4,600	5671.7 5,500	5672.3 6,900
E005	14+50	Peaceful Valley Road	5666.0	5671.9 2,800	5672.4 3,700	5672.9 4,600	5673.4 5,500	5674.1 6,900
E007	16+50		5667.0	5672.2 2,800	5672.7 3,700	5673.3 4,600	5673.7 5,500	5674.4 6,900
E010	19+10		5677.2	5680.7 2,800	5680.9 3,700	5681.1 4,600	5681.3 5,500	5681.6 6,900
E020	40+00		5676.8	5684.9 2,800	5685.6 3,700	5686.1 4,600	5686.6 5,500	5687.2 6,900
E030	51+30		5678.4	5687.3 2,800	5688.0 3,700	5688.8 4,600	5689.5 5,500	5690.4 6,900
E040	68+20		5687.5	5697.9 2,800	5698.7 3,700	5699.4 4,600	5700.0 5,500	5700.6 6,900
E050	82+60		5703.4	5707.4 2,650	5708.0 3,500	5708.6 4,250	5709.1 5,200	5709.5 6,500
E060	98+80		5708.8	5714.6 2,650	5715.3 3,500	5715.8 4,250	5716.3 5,200	5717.0 6,500

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 2 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
EAST TRIBUTARY, REACH 2

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
E070	113+60		5722.6	5725.9 2,400	5726.4 3,150	5726.8 3,900	5727.4 4,750	5728.5 6,000
E080	130+20		5733.0	5738.8 2,400	5739.5 3,150	5740.1 3,900	5740.6 4,750	5740.8 6,000
E090	148+00		5754.6	5759.0 2,200	5759.4 2,900	5759.8 3,600	5760.2 4,400	5760.6 5,500
E095	160+60		5765.0	5771.1 1,850	5771.4 2,400	5771.7 3,000	5772.0 3,650	5772.4 4,500
E120	186+00		5787.8	5789.4 1,850	5789.6 2,400	5789.7 3,000	5789.9 3,650	5790.0 4,500
E135	200+90		5803.5	5807.0 1,850	5807.4 2,400	5807.7 3,000	5808.0 3,650	5808.3 4,500
E138	218+00		5827.0	5828.1 1,850	5828.2 2,400	5828.3 3,000	5828.4 3,650	5828.6 4,500
E150	230+30		5840.6	5842.8 1,650	5843.0 2,200	5843.1 2,700	5843.2 3,300	5843.4 4,100
E160	248+80		5862.2	5865.0 1,350	5865.4 1,700	5866.1 2,200	5866.6 2,700	5866.9 3,300
E163	263+80		5878.2	5882.1 1,350	5882.4 1,700	5882.6 2,200	5882.7 2,700	5883.1 3,300

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 2 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
EAST TRIBUTARY, REACH 2

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
E165	265+60	Drennan Road	5879.2	5883.4 1,350	5883.7 1,700	5884.0 2,200	5884.7 2,700	5885.0 3,300
E167	266+60		5881.5	5884.0 1,350	5884.7 1,700	5885.5 2,200	5886.0 2,700	5886.5 3,300
E170	276+10		5894.6	5897.9 1,350	5898.1 1,700	5898.3 2,200	5898.4 2,700	5898.6 3,300
E175	285+60	Shonts Road	5908.8	5910.0 1,180	5910.1 1,500	5910.2 1,900	5910.4 2,400	5910.5 2,900
E180	296+10		5918.0	5920.8 1,180	5921.2 1,500	5921.3 1,900	5921.6 2,400	5921.9 2,900
E190	313+40		5952.0	5953.5 970	5953.7 1,250	5954.0 1,600	5954.3 2,000	5954.6 2,450
E200	327+10		5982.0	5984.7 970	5984.9 1,250	5985.1 1,600	5985.3 2,000	5985.5 2,450
E210	347+90		6023.0	6024.6 660	6024.9 850	6025.1 1,100	6025.3 1,350	6025.5 1,580
E220	357+10		6057.0	6058.5 660	6058.7 850	6058.8 1,100	6059.0 1,350	6059.1 1,580
E230	366+10		6079.0	6080.2 660	6080.4 850	6080.7 1,100	6080.9 1,350	6081.1 1,580

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 2 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
EAST TRIBUTARY, REACH 2

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
E070	113+60		5722.6	5725.9 2,400	5726.4 3,150	5726.8 3,900	5727.4 4,750	5728.5 6,000
E080	130+20		5733.0	5738.8 2,400	5739.5 3,150	5740.1 3,900	5740.6 4,750	5740.8 6,000
E090	148+00		5754.6	5759.0 2,200	5759.4 2,900	5759.8 3,600	5760.2 4,400	5760.6 5,500
E095	160+60		5765.0	5771.1 1,850	5771.4 2,400	5771.7 3,000	5772.0 3,650	5772.4 4,500
E120	186+00		5787.8	5789.4 1,850	5789.6 2,400	5789.7 3,000	5789.9 3,650	5790.0 4,500
E135	200+90		5803.5	5807.0 1,850	5807.4 2,400	5807.7 3,000	5808.0 3,650	5808.3 4,500
E138	218+00		5827.0	5828.1 1,850	5828.2 2,400	5828.3 3,000	5828.4 3,650	5828.6 4,500
E150	230+30		5840.6	5842.8 1,650	5843.0 2,200	5843.1 2,700	5843.2 3,300	5843.4 4,100
E160	248+80		5862.2	5865.0 1,350	5865.4 1,700	5866.1 2,200	5866.6 2,700	5866.9 3,300
E163	263+80		5878.2	5882.1 1,350	5882.4 1,700	5882.6 2,200	5882.7 2,700	5883.1 3,300

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 3 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}

FRANCEVILLE TRIBUTARY, REACH 3

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
F095	142+60		5984.7	5988.0 1,380	5988.3 1,800	5988.5 2,250	5988.8 2,800	5989.0 3,400
F100	152+00		5999.0	6000.6 1,380	6000.7 1,800	6000.9 2,250	6001.1 2,800	6001.3 3,400
F115	171+70		6007.0	6008.4 800	6008.5 1,050	6008.7 1,350	6008.9 1,700	6009.1 2,100
F120	182+40		6020.0	6022.0 800	6022.1 1,050	6022.3 1,350	6022.4 1,700	6022.5 2,100
F130	189+90		6031.0	6032.3 800	6032.4 1,050	6032.6 1,350	6032.7 1,700	6032.8 2,100
F145	202+90		6067.0	6068.3 500	6068.3 630	6068.4 820	6068.5 1,030	6068.6 1,250
F160	219+80		6116.5	6117.9 430	6118.1 540	6118.4 700	6118.6 900	6118.8 1,080
F170	231+00		6156.5	6157.5 430	6157.6 540	6157.8 700	6158.0 900	6158.2 1,080
F173	243+70		6209.5	6210.9 350	6211.1 450	6211.2 580	6211.3 740	6211.5 900

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 3

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}

FRANCEVILLE TRIBUTARY, REACH 3

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
	0+00	Confluence with Jimmy Camp Creek	5816.2	5821.4 1,700	5822.1 2,250	5822.6 2,800	5823.3 3,500	5824.2 4,300
F010	7+00		5813.2	5821.6 1,700	5822.3 2,250	5822.9 2,800	5823.5 3,500	5824.5 4,300
F020	21+60		5832.2	5836.7 1,700	5837.4 2,250	5838.0 2,800	5838.7 3,500	5839.5 4,300
F030	34+90		5854.7	5859.1 1,400	5859.6 1,800	5860.2 2,300	5860.8 2,800	5861.5 3,500
F040	48+60		5877.5	5879.1 1,650	5879.3 2,100	5879.4 2,700	5879.6 3,300	5879.8 4,100
F055	70+80	Drennan Road	5895.0	5897.1 1,550	5897.3 2,050	5897.5 2,550	5897.6 3,100	5897.8 3,900
F060	79+30		5902.7	5905.7 1,550	5906.1 2,050	5906.4 2,550	5906.7 3,100	5907.0 3,900
F070	91+90		5929.2	5931.4 1,550	5931.6 2,050	5931.9 2,550	5932.1 3,100	5932.4 3,900
F080	107+20		5941.2	5945.9 1,450	5946.4 1,900	5946.8 2,400	5947.2 2,900	5947.6 3,650
F085	114+10		5947.7	5953.3 1,450	5953.8 1,900	5954.3 2,400	5954.7 2,900	5955.4 3,650
F090	130+60		5967.7	5975.2 1,380	5975.5 1,800	5975.8 2,250	5976.0 2,800	5976.1 3,400

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 4 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
CORRAL TRIBUTARY, REACH 4

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
C060	77+30		5902.2	5908.9 3,600	5910.0 4,700	5911.0 5,900	5912.0 7,000	5913.4 8,900
C070	92+40		5914.9	5922.5 3,600	5923.5 4,700	5924.6 5,900	5925.5 7,000	5926.9 8,900
C080	101+90		5938.2	5942.9 2,500	5943.7 3,300	5944.6 4,100	5945.4 5,000	5946.3 6,200
C090	111+20		5947.2	5953.1 2,500	5954.0 3,300	5954.8 4,100	5955.4 5,000	5956.2 6,200
C100	127+10		5970.2	5974.4 2,500	5975.0 3,300	5975.6 4,100	5976.1 5,000	5976.5 6,200
C110	146+10		5989.0	5993.7 2,350	5994.4 3,100	5994.8 3,800	5995.3 4,600	5996.1 5,800
C120	161+10		6002.2	6005.9 2,350	6006.5 3,100	6007.2 3,800	6007.8 4,600	6008.6 5,800
C130	175+30		6014.4	6021.6 2,250	6022.4 2,900	6023.0 3,600	6023.7 4,400	6024.4 5,550
C140	194+80		6038.2	6041.7 2,050	6042.4 2,700	6043.0 3,300	6043.7 4,100	6045.4 5,150
C150	211+90		6059.0	6062.6 2,050	6063.0 2,700	6063.4 3,300	6063.4 4,100	6063.8 5,150

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 4

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
CORRAL TRIBUTARY, REACH 4

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
J310	0+00	Confluence with Jimmy Camp Creek	5826.7	5829.3 3,800	5829.6 5,000	5829.9 6,000	5830.1 7,300	5830.7 9,300
C010	8+90		5836.7	5838.5 3,800	5838.8 5,000	5839.1 6,000	5839.4 7,300	5839.9 9,300
C020	22+40		5846.2	5850.6 3,800	5851.2 5,000	5851.6 6,000	5852.1 7,300	5852.8 9,300
C030	32+20		5852.2	5856.2 3,800	5856.9 5,000	5857.5 6,000	5858.1 7,300	5858.9 9,300
C033	37+70		5857.8	5861.5 3,800	5862.1 5,000	5862.7 6,000	5863.3 7,300	5864.3 9,300
C035	38+40	Drennan Road	5858.0	5863.7 3,800	5864.6 5,000	5865.3 6,000	5866.0 7,300	5867.1 9,300
C037	40+50		5861.0	5865.6 3,800	5866.4 5,000	5867.1 6,000	5867.8 7,300	5869.0 9,300
C040	51+20		5880.7	5887.2 3,800	5888.2 5,000	5889.0 6,000	5889.9 7,300	5891.1 9,300
C050	63+20		5892.9	5900.2 3,800	5901.3 5,000	5902.1 6,000	5903.0 7,300	5904.2 9,300

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 4 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
CORRAL TRIBUTARY, REACH 4

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
C220	291+90		6172.0	6174.3 1,200	6174.5 1,550	6174.5 2,000	6174.7 2,400	6174.9 3,000
C230	301+60		6183.0	6185.8 1,080	6186.3 1,400	6187.4 1,800	6187.9 2,200	6188.3 2,700
C240	315+40		6198.8	6202.6 1,000	6203.0 1,350	6203.0 1,650	6203.3 2,050	6203.7 2,500

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 4 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
CORRAL TRIBUTARY, REACH 4

Cross- Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
C160	228+70		6077.8	6080.2 1,950	6080.6 2,550	6081.5 3,200	6081.9 3,900	6082.5 4,800
C170	239+40		6090.4	6092.7 1,950	6093.1 2,550	6093.1 3,200	6093.4 3,900	6093.5 4,800
C180	251+70		6103.8	6105.6 1,750	6105.9 2,300	6106.4 2,900	6106.7 3,500	6107.5 4,400
C183	253+70		6104.8	6108.9 1,750	6109.3 2,300	6109.6 2,900	6110.0 3,500	6110.5 4,400
C185	254+20	State Highway 94	6105.8	6110.7 1,750	6111.4 2,300	6112.2 2,900	6112.9 3,500	6113.9 4,400
C187	255+10		6106.3	6110.9 1,750	6111.6 2,300	6112.3 2,900	6113.0 3,500	6114.0 4,400
C190	258+80		6112.8	6114.8 1,550	6115.2 2,250	6115.3 2,600	6115.6 3,200	6115.9 3,900
C200	267+70		6126.2	6130.4 1,400	6131.0 1,820	6131.5 2,300	6132.0 2,800	6132.6 3,500
C210	278+90		6148.2	6152.0 1,400	6152.7 1,820	6153.7 2,300	6154.1 2,800	6154.7 3,500

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

TABLE 5 (Continued)

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
STRIP MINE TRIBUTARY, REACH 5

Cross-Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
M103	205+10		6194.4	6196.8 1,200	6197.1 1,550	6197.3 2,000	6197.5 2,500	6197.7 3,000
M105	206+10	State Highway 94	6194.6	6197.4 1,200	6197.6 1,550	6197.9 2,000	6198.3 2,500	6198.7 3,000
M107	206+90		6198.0	6200.5 1,200	6200.8 1,550	6201.2 2,000	6201.6 2,500	6202.0 3,000

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.







TABLE 5

FLOOD FREQUENCY-ELEVATION AND DISCHARGE DATA ^{1/}
STRIP MINE TRIBUTARY, REACH 5

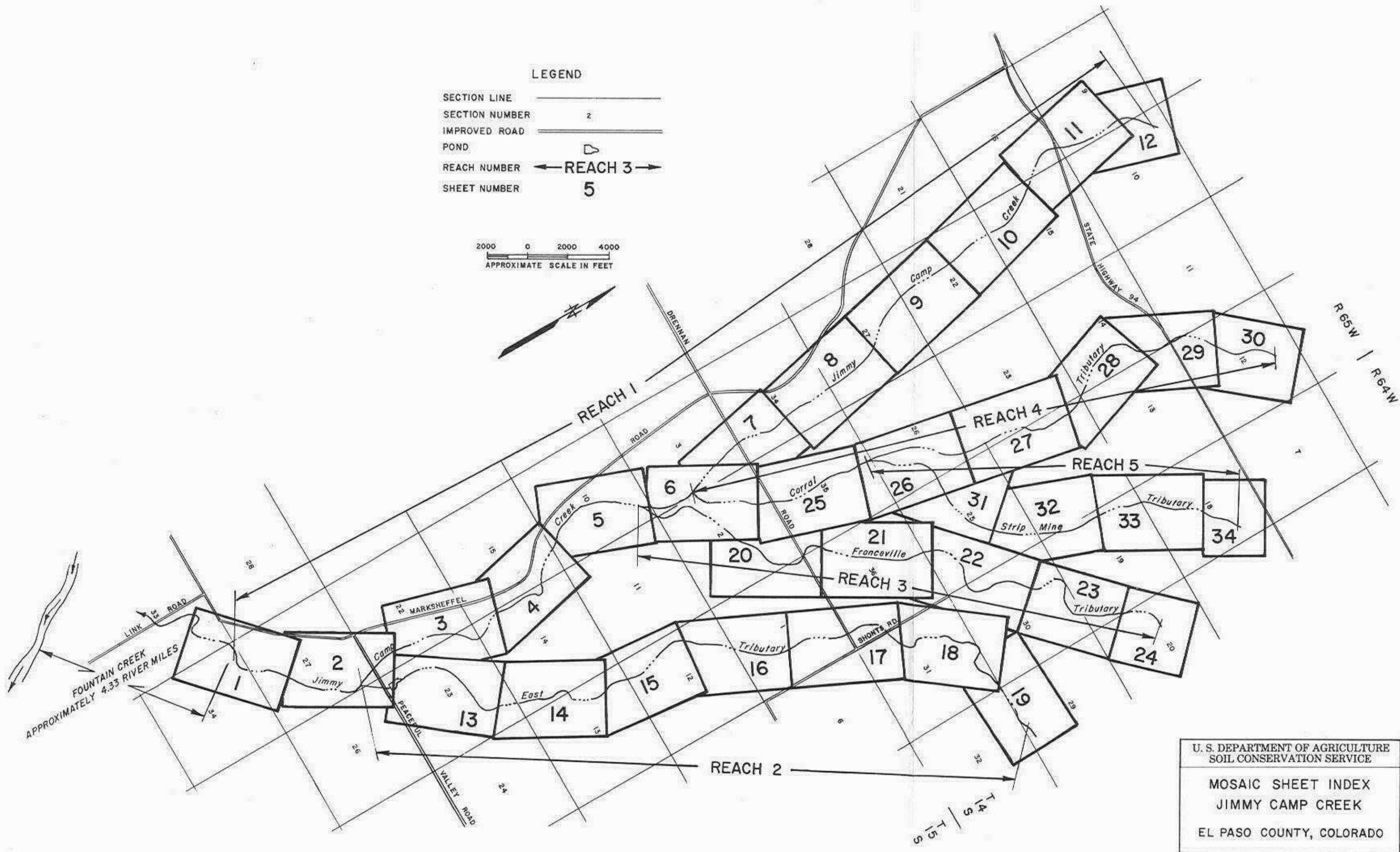
Cross-Section Number	Stationing from Mouth Feet	Identification	Stream Bed Elevation ft. M.S.L.	Crest-Elevation ft. M.S.L., and Peak Discharge c.f.s.				
				10-Year Flood	25-Year Flood	50-Year Flood	100-Year Flood	500-Year Flood
C070	0+00	Confluence with Corral Tributary	5914.9	5922.4 2,300	5923.5 3,000	5924.6 3,700	5925.5 4,500	5926.9 5,700
M010	22+30		5954.2	5955.5 2,300	5955.7 3,000	5955.8 3,700	5956.0 4,500	5956.2 5,700
M030	58+30		5998.2	6000.4 2,200	6000.5 2,850	6000.7 3,500	6000.9 4,300	6001.1 5,400
M050	89+60		6032.2	6034.4 2,200	6034.7 2,850	6035.1 3,500	6035.5 4,300	6036.0 5,400
M055	102+20		6048.2	6050.9 2,100	6051.3 2,750	6051.6 3,400	6052.0 4,200	6052.6 5,200
M060	117+30		6065.2	6067.4 2,100	6067.8 2,750	6068.1 3,400	6068.5 4,200	6068.9 5,200
M070	138+00		6094.9	6097.0 1,800	6097.2 2,300	6097.4 2,900	6097.6 3,600	6097.8 4,400
M080	157+10		6120.0	6122.5 1,800	6122.7 2,300	6122.9 2,900	6123.1 3,600	6123.3 4,400
M090	176+10		6145.2	6146.8 1,800	6147.0 2,300	6147.2 2,900	6147.5 3,600	6147.7 4,400
M100	187+10		6162.4	6164.0 1,570	6164.2 2,050	6164.4 2,700	6164.6 3,200	6164.9 3,900

^{1/} Flood elevations pertain only to streamflow in the main channel segment for existing conditions May 1973.

LEGEND

- SECTION LINE 
- SECTION NUMBER  2
- IMPROVED ROAD 
- POND 
- REACH NUMBER  REACH 3
- SHEET NUMBER  5

2000 0 2000 4000
APPROXIMATE SCALE IN FEET



FOUNTAIN CREEK
APPROXIMATELY 4.33 RIVER MILES

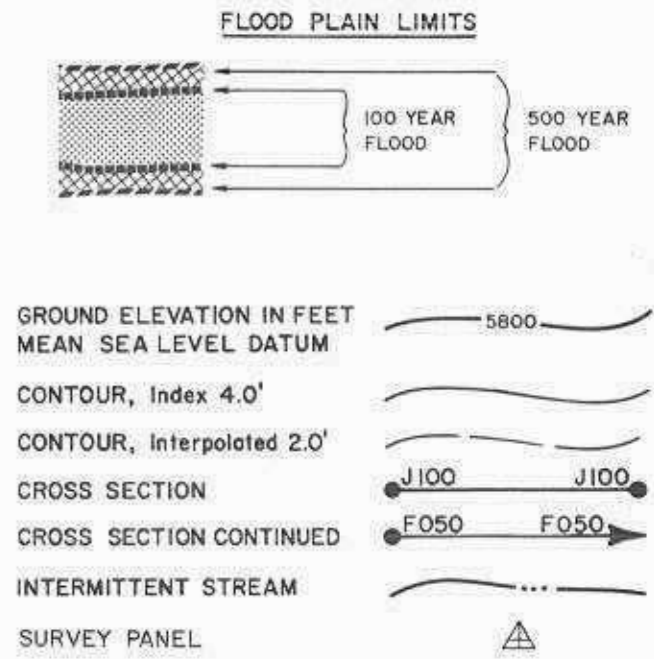
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SOIL CONSERVATION SERVICE

MOSAIC SHEET INDEX
JIMMY CAMP CREEK

EL PASO COUNTY, COLORADO



LEGEND



AERIAL PHOTOGRAPHY, FLOOD HAZARD AREAS, AND TOPOGRAPHY ARE FOR EXISTING CONDITIONS — MAY 1973.

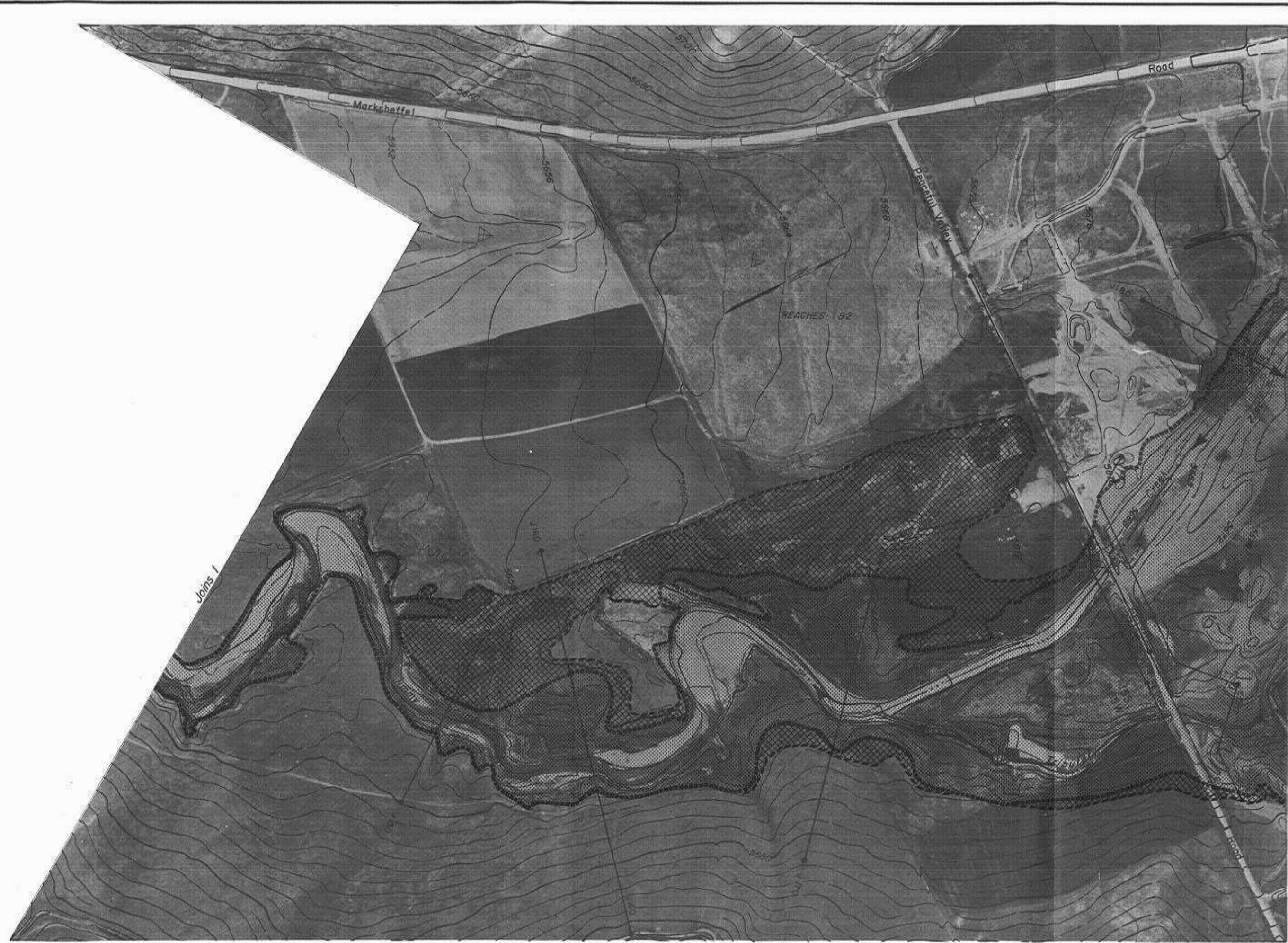
FLOOD AREA OUTLINES WERE DETERMINED BY MATCHING WATER SURFACE PROFILE ELEVATIONS WITH TOPOGRAPHY.

NOTE: TOPOGRAPHIC DETAIL WAS COMPILED BY PHOTOGRAMMETRIC METHODS TO MEET NATIONAL MAP ACCURACY STANDARDS. THE PHOTOGRAPHIC IMAGE CONTAINS DISPLACEMENTS DUE TO RELIEF AND IT DOES NOT MATCH THE TOPOGRAPHIC DETAIL IN ALL AREAS.

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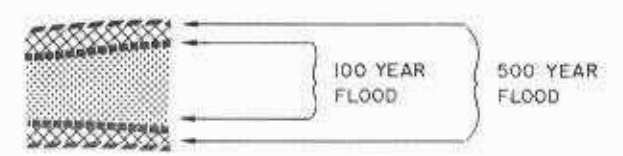
FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



- GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM 5800
- CONTOUR, Index 4.0'
- CONTOUR, Interpolated 2.0'
- CROSS SECTION J100 J100
- CROSS SECTION CONTINUED F050 F050
- INTERMITTENT STREAM
- SURVEY PANEL

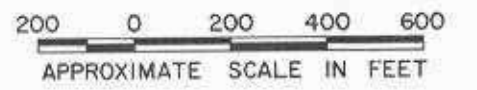
AERIAL PHOTOGRAPHY, FLOOD HAZARD AREAS, AND TOPOGRAPHY ARE FOR EXISTING CONDITIONS — MAY 1973.

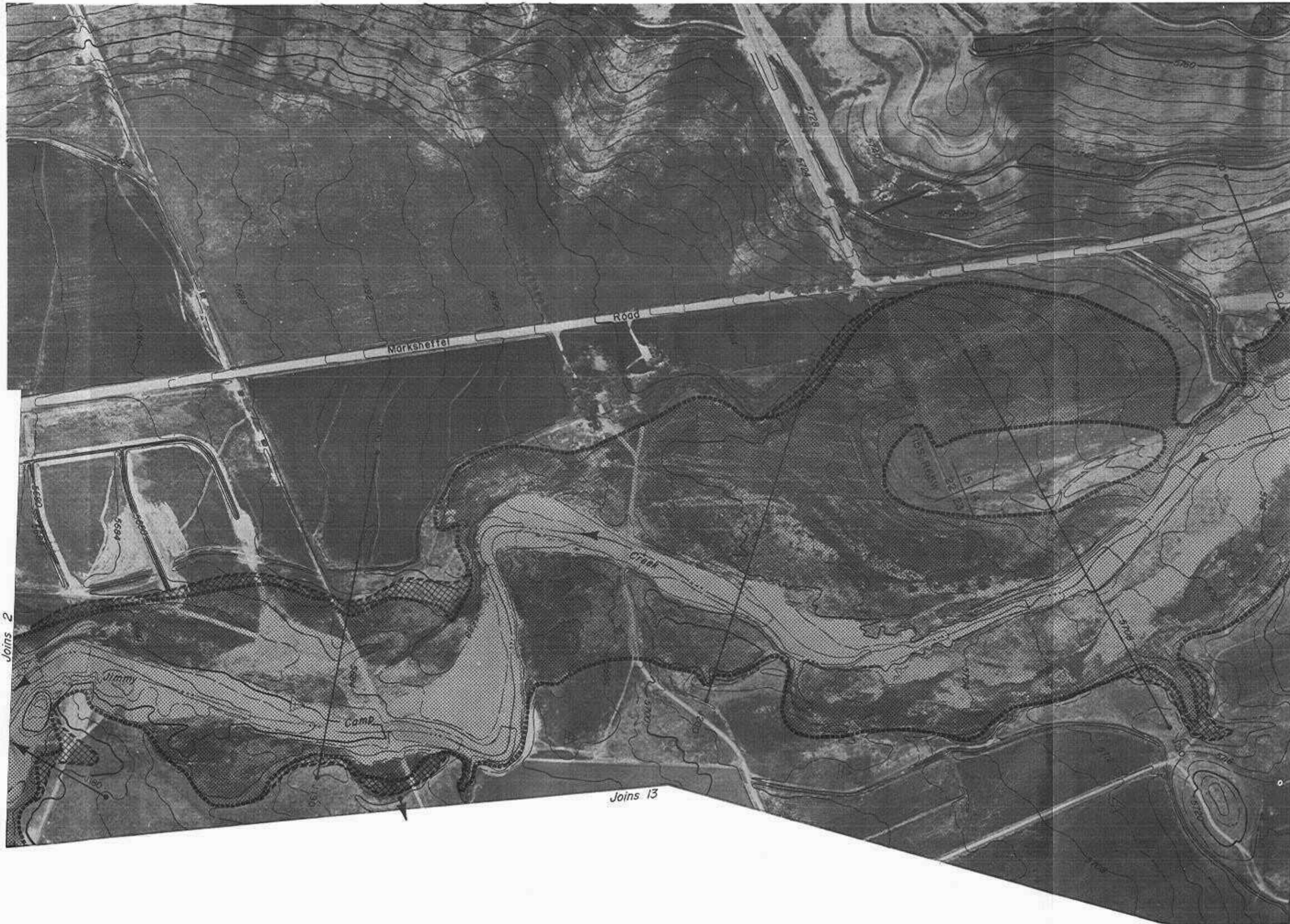
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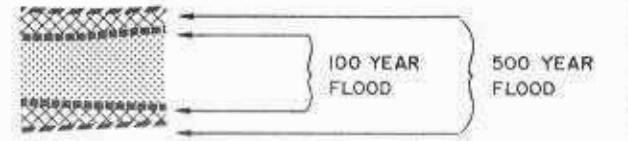
FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



- GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM 5800
- CONTOUR, Index 4.0'
- CONTOUR, Interpolated 2.0'
- CROSS SECTION J100 J100
- CROSS SECTION CONTINUED F050 F050
- INTERMITTENT STREAM
- SURVEY PANEL ▲

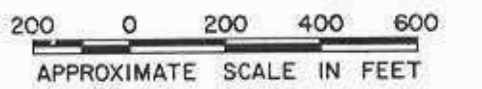
AERIAL PHOTOGRAPHY, FLOOD HAZARD AREAS, AND TOPOGRAPHY ARE FOR EXISTING CONDITIONS — MAY 1973.

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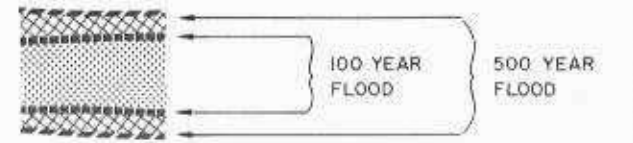
FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



- GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM 5800
- CONTOUR, Index 4.0'
- CONTOUR, Interpolated 2.0'
- CROSS SECTION J100 J100
- CROSS SECTION CONTINUED F050 F050
- INTERMITTENT STREAM
- SURVEY PANEL

AERIAL PHOTOGRAPHY, FLOOD HAZARD AREAS, AND TOPOGRAPHY ARE FOR EXISTING CONDITIONS — MAY 1973.

FLOOD AREA OUTLINES WERE DETERMINED BY MATCHING WATER SURFACE PROFILE ELEVATIONS WITH TOPOGRAPHY.

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FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO

200 0 200 400 600
APPROXIMATE SCALE IN FEET

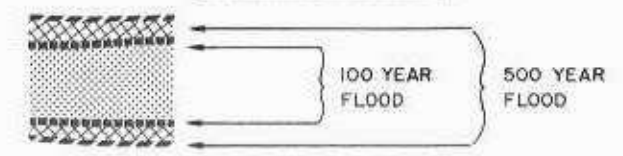
JULY 1975

SHEET 4 OF 34



LEGEND

FLOOD PLAIN LIMITS



- GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM 5800
- CONTOUR, Index 4.0'
- CONTOUR, Interpolated 2.0'
- CROSS SECTION J100 J100
- CROSS SECTION CONTINUED F050 F050
- INTERMITTENT STREAM
- SURVEY PANEL

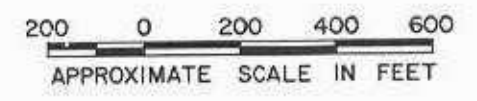
AERIAL PHOTOGRAPHY, FLOOD HAZARD AREAS, AND TOPOGRAPHY ARE FOR EXISTING CONDITIONS — MAY 1973.

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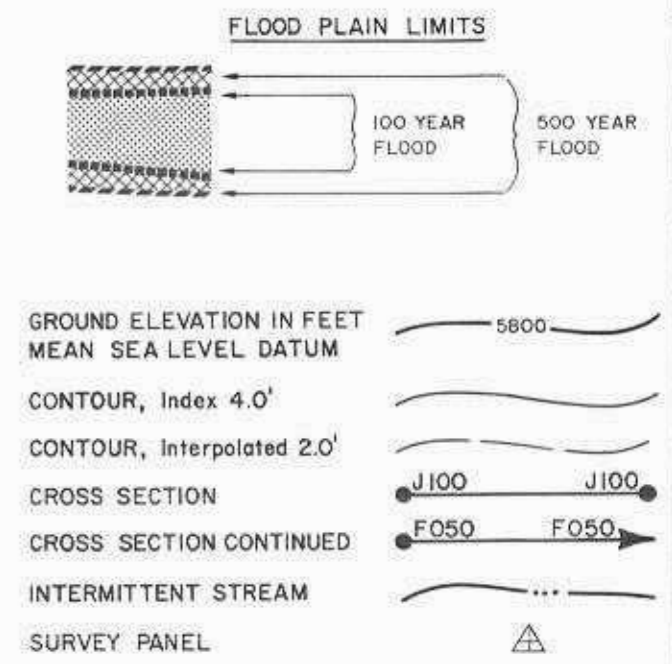
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FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND



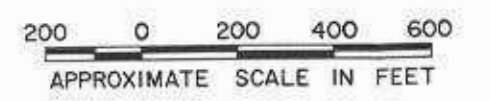
AERIAL PHOTOGRAPHY, FLOOD HAZARD AREAS, AND TOPOGRAPHY ARE FOR EXISTING CONDITIONS — MAY 1973.

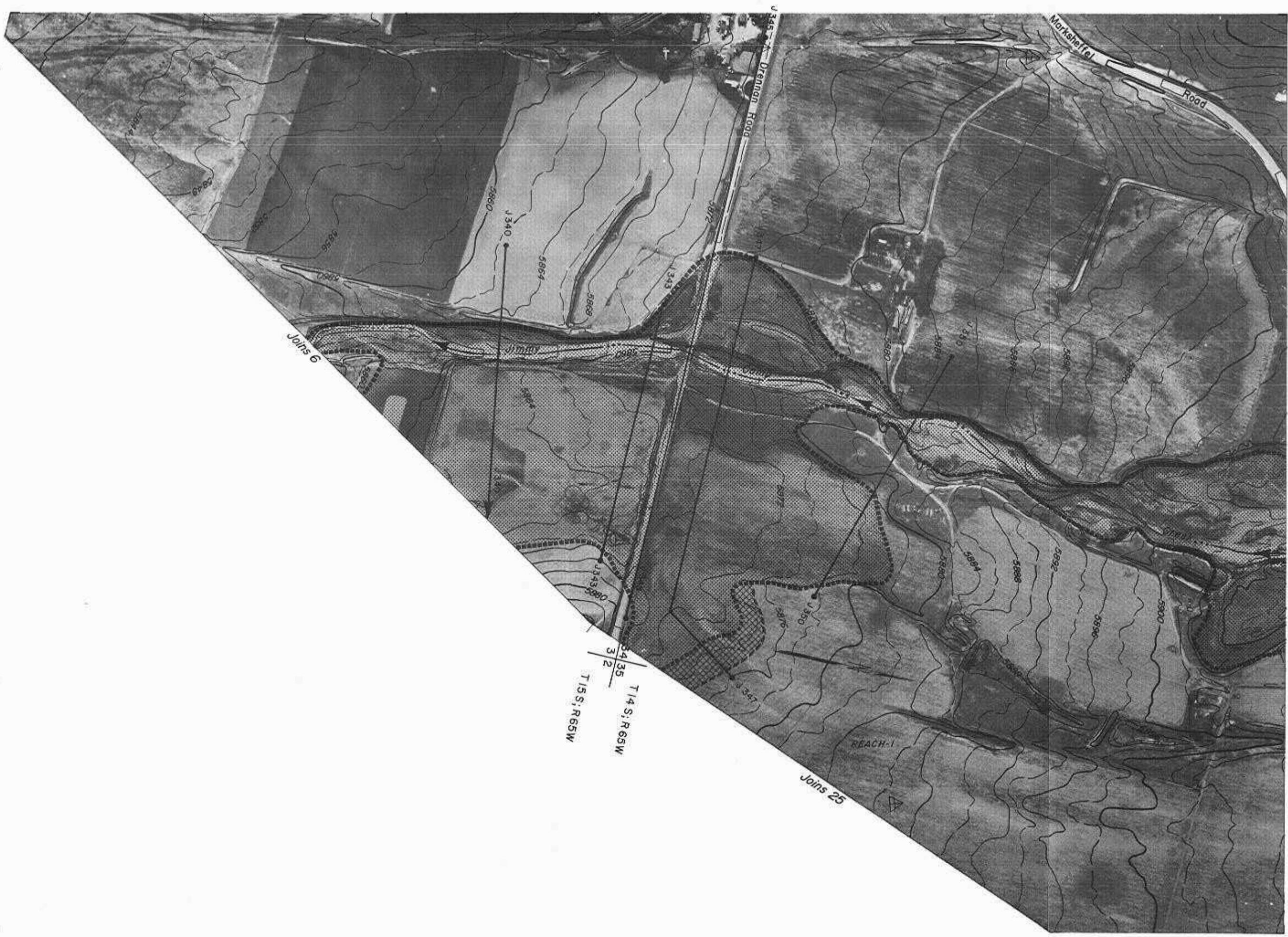
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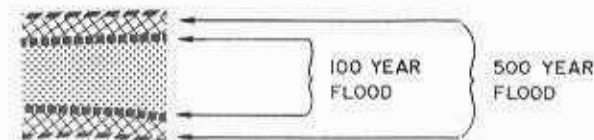
FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



- GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM 5800
- CONTOUR, Index 4.0'
- CONTOUR, Interpolated 2.0'
- CROSS SECTION J100 J100
- CROSS SECTION CONTINUED F050 F050
- INTERMITTENT STREAM
- SURVEY PANEL ▲

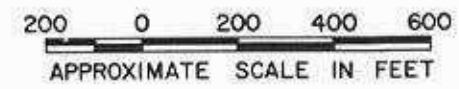
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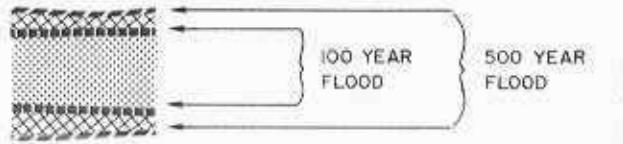
FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



- GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM 5800
- CONTOUR, Index 4.0'
- CONTOUR, Interpolated 2.0'
- CROSS SECTION J100 J100
- CROSS SECTION CONTINUED F050 F050
- INTERMITTENT STREAM
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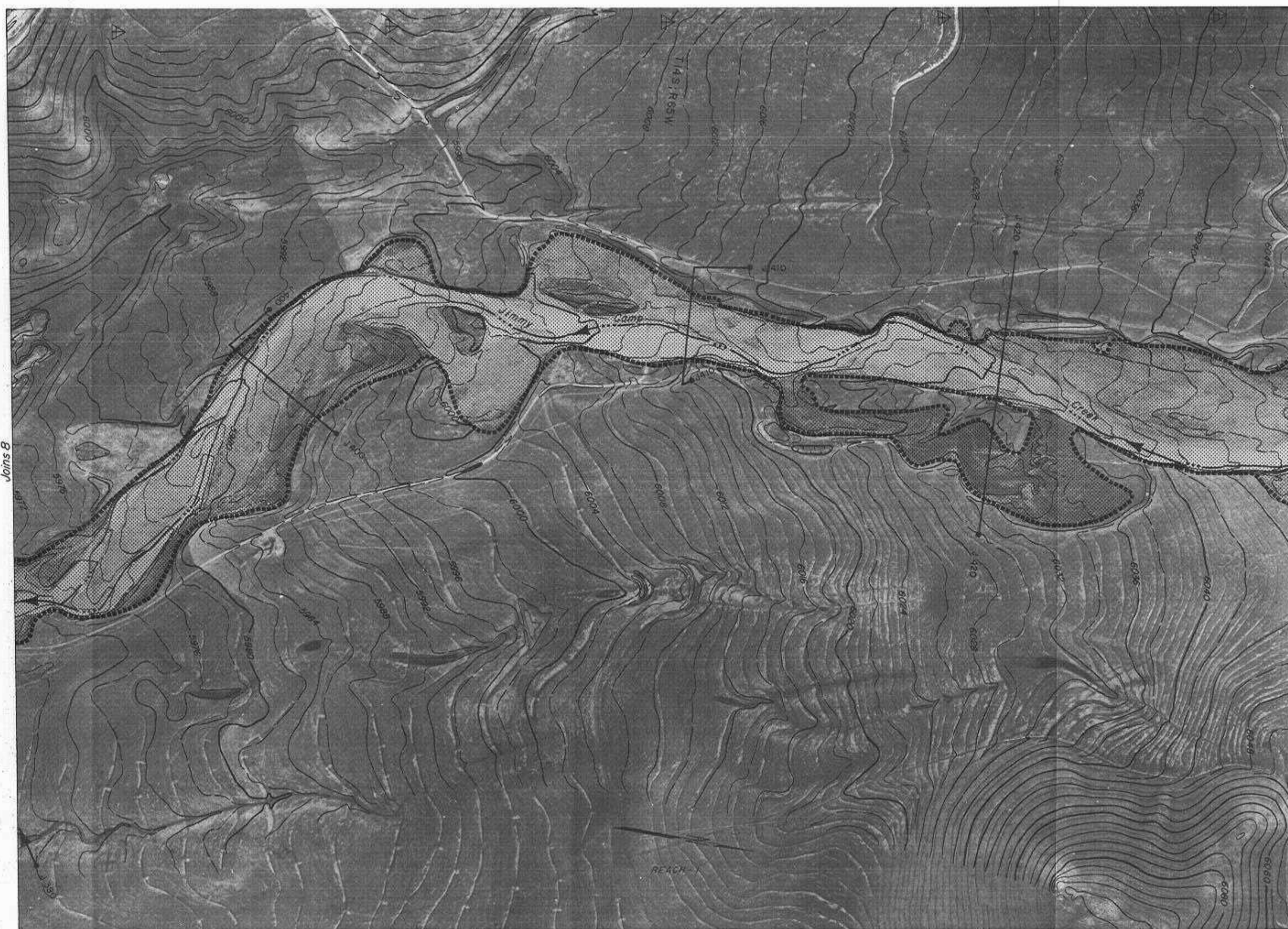
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO

200 0 200 400 600
APPROXIMATE SCALE IN FEET

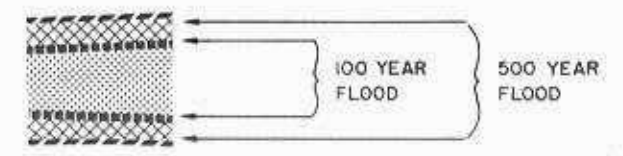
JULY 1975

SHEET 8 OF 34



LEGEND

FLOOD PLAIN LIMITS



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- CONTOUR, Index 4.0'
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- CROSS SECTION CONTINUED F050 F050
- INTERMITTENT STREAM
- SURVEY PANEL ▲

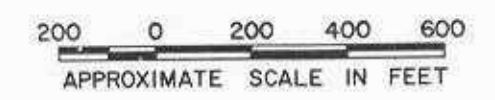
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SOIL CONSERVATION SERVICE

FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

- FLOOD PLAIN LIMITS**
- 
100 YEAR FLOOD
 - 
500 YEAR FLOOD
 - GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM
5800
 - CONTOUR, Index 4.0'
 - CONTOUR, Interpolated 2.0'
 - CROSS SECTION
J100 J100
 - CROSS SECTION CONTINUED
FO50 FO50
 - INTERMITTENT STREAM
 - SURVEY PANEL
△

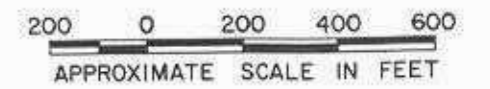
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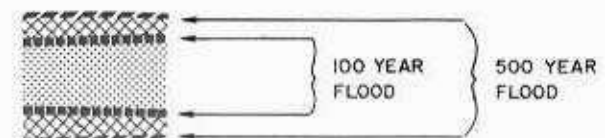
FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



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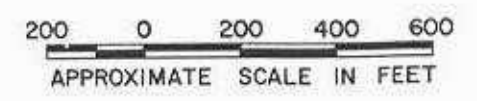
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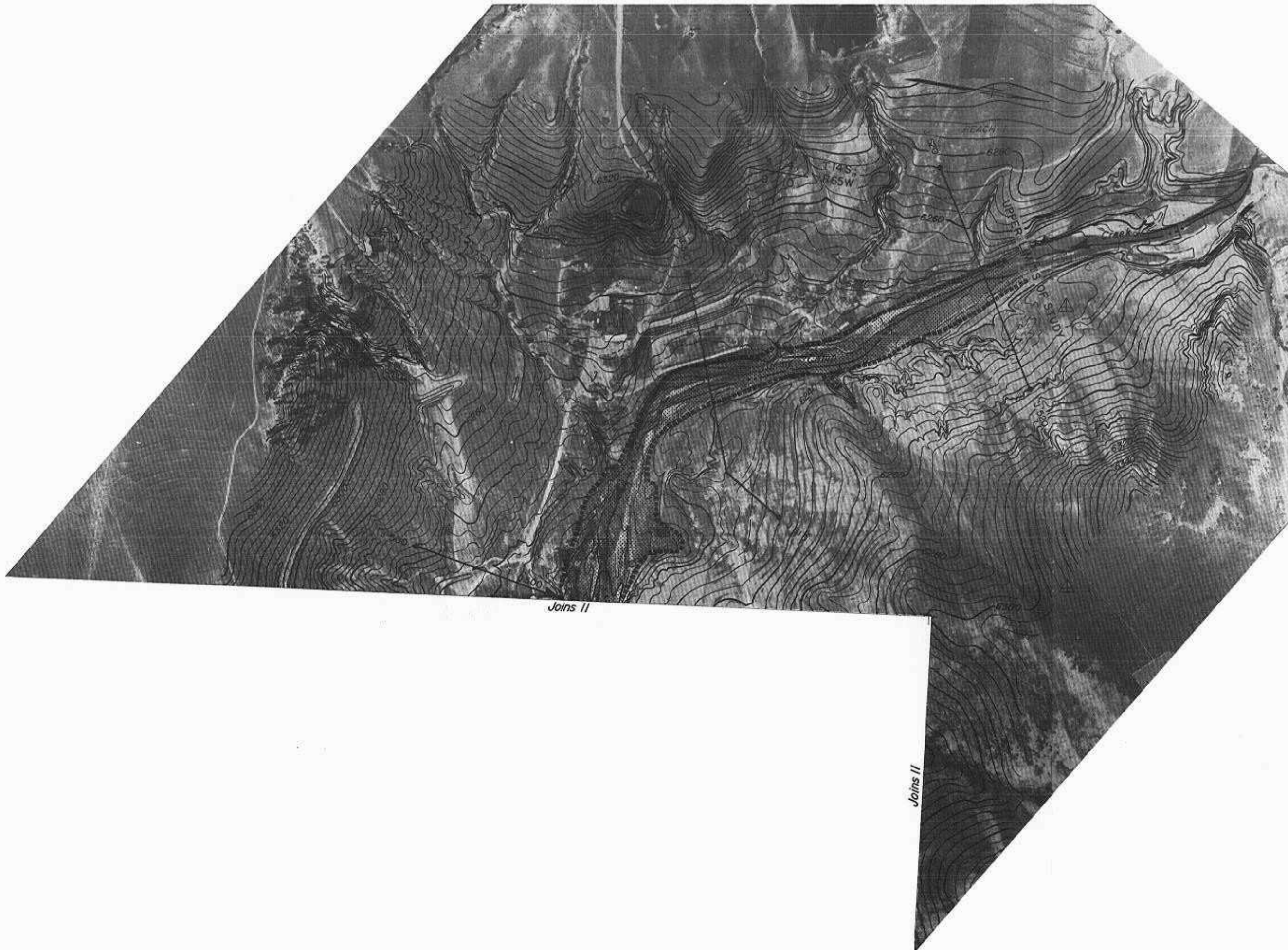
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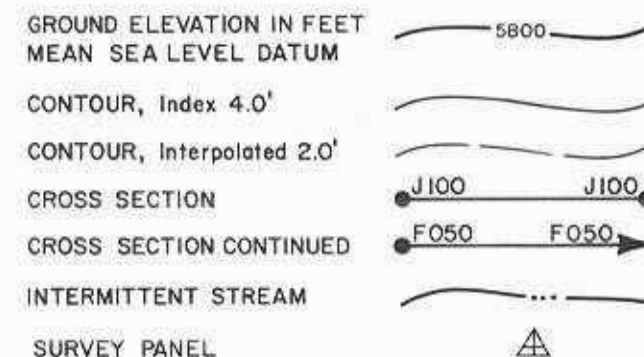
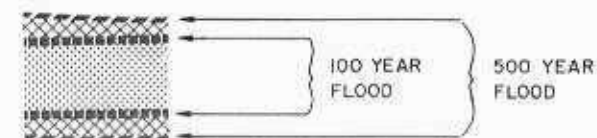
FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



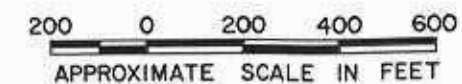
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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO



JULY 1975

SHEET 12 OF 34



LEGEND

FLOOD PLAIN LIMITS



- GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM 5800
- CONTOUR, Index 4.0'
- CONTOUR, Interpolated 2.0'
- CROSS SECTION J100 J100
- CROSS SECTION CONTINUED F050 F050
- INTERMITTENT STREAM
- SURVEY PANEL

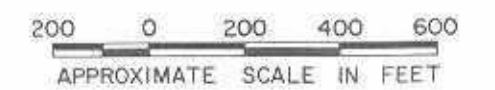
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SOIL CONSERVATION SERVICE

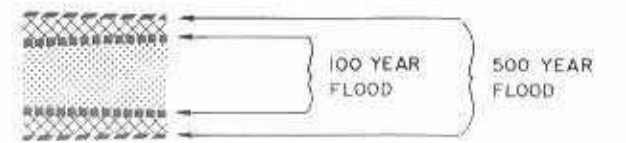
FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



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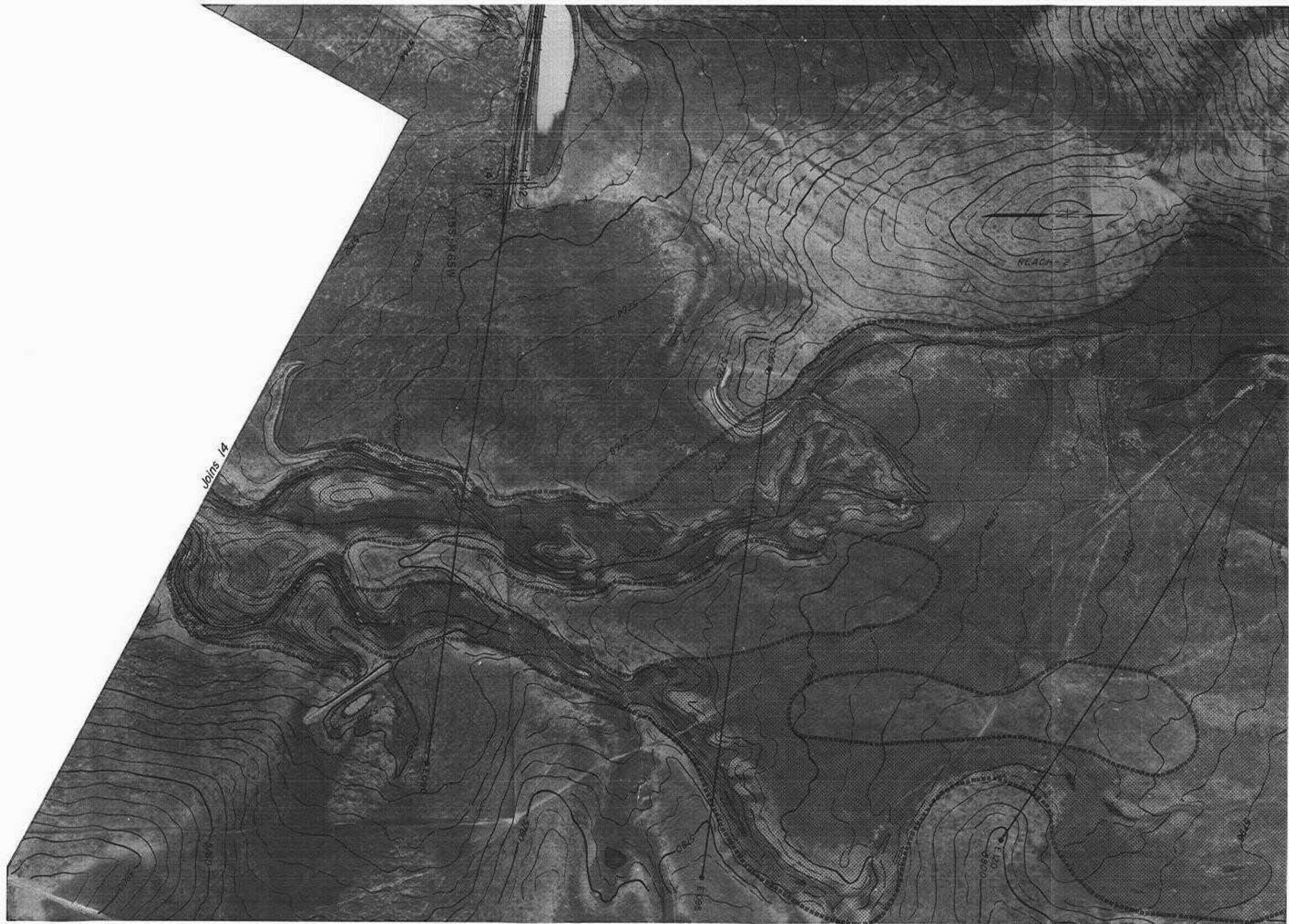
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SOIL CONSERVATION SERVICE

FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO

200 0 200 400 600
APPROXIMATE SCALE IN FEET

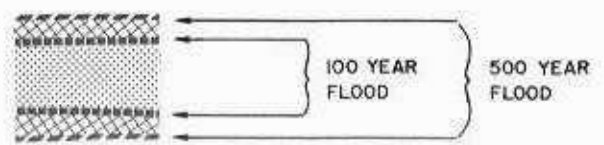
JULY 1975

SHEET 13 OF 34



LEGEND

FLOOD PLAIN LIMITS



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- CONTOUR, Index 4.0'
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- CROSS SECTION J100 J100
- CROSS SECTION CONTINUED F050 F050
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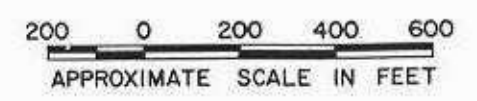
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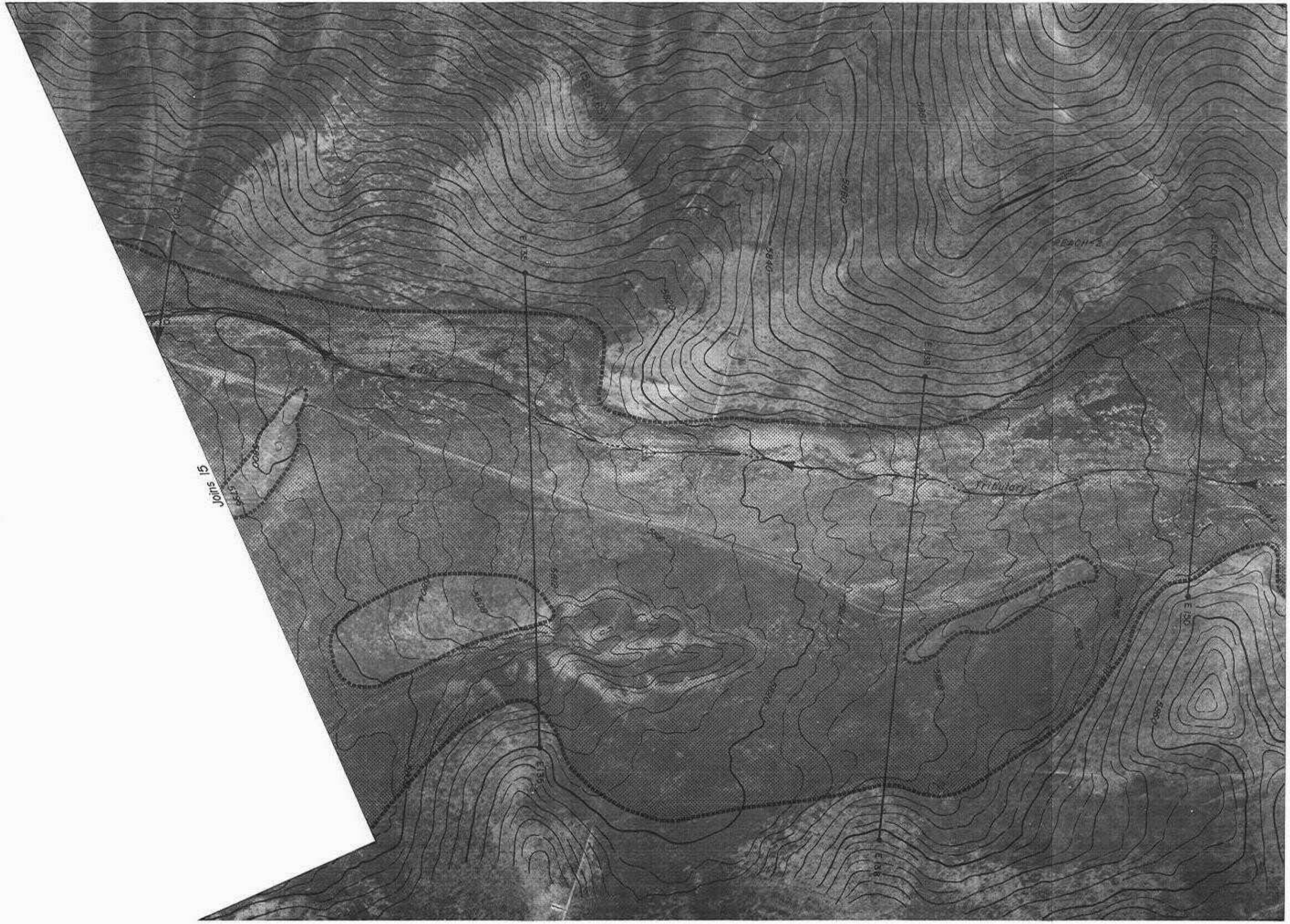
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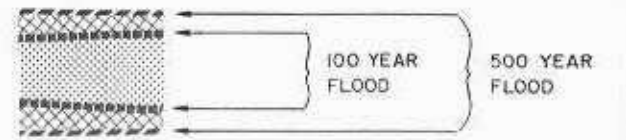
FLOOD HAZARD AREAS
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EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



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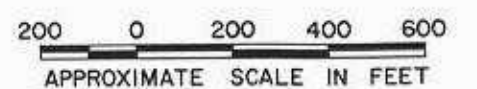
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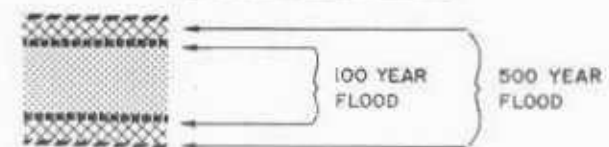
FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



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SOIL CONSERVATION SERVICE

FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO

200 0 200 400 600
APPROXIMATE SCALE IN FEET

Joins 21

Joins 22

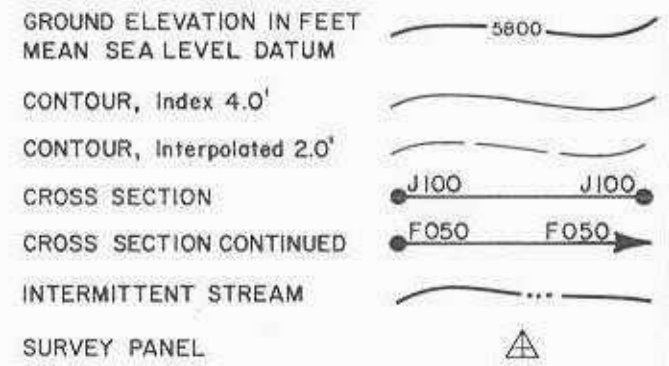
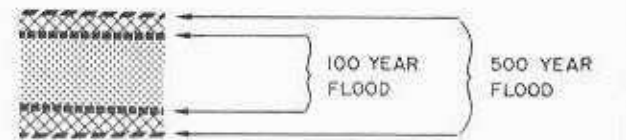
Joins 22

Joins 19



LEGEND

FLOOD PLAIN LIMITS



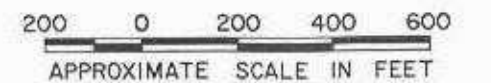
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SOIL CONSERVATION SERVICE

FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO

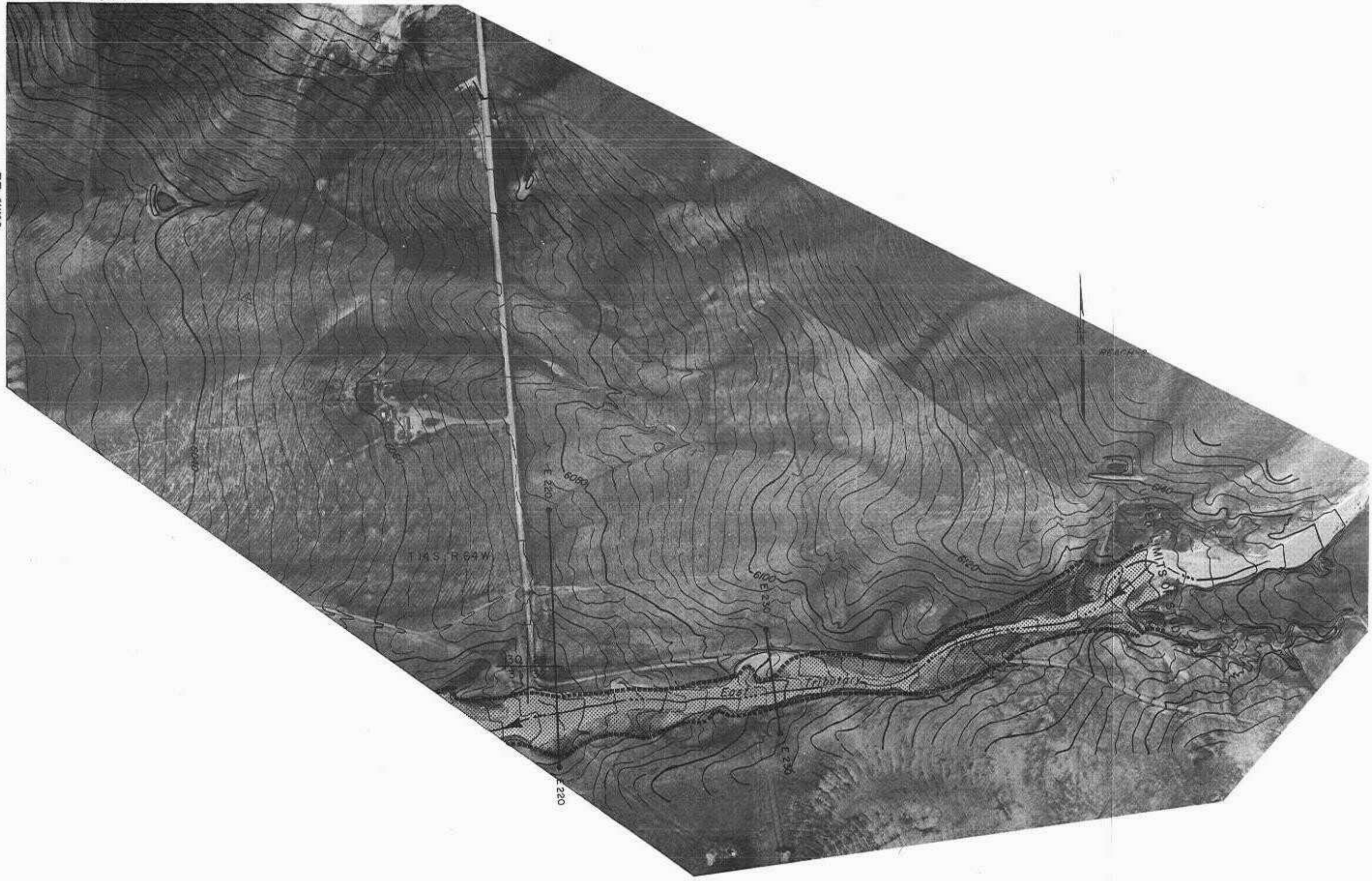


JULY 1975

SHEET 18 OF 34

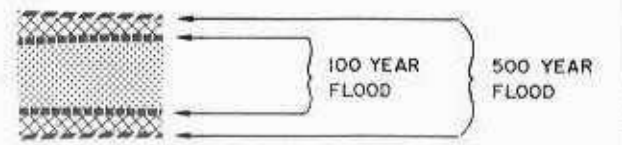
Joins 23

Joins 22



LEGEND

FLOOD PLAIN LIMITS



- GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM 5800
- CONTOUR, Index 4.0'
- CONTOUR, Interpolated 2.0'
- CROSS SECTION J100 J100
- CROSS SECTION CONTINUED F050 F050
- INTERMITTENT STREAM
- SURVEY PANEL

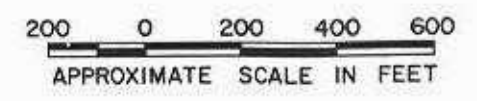
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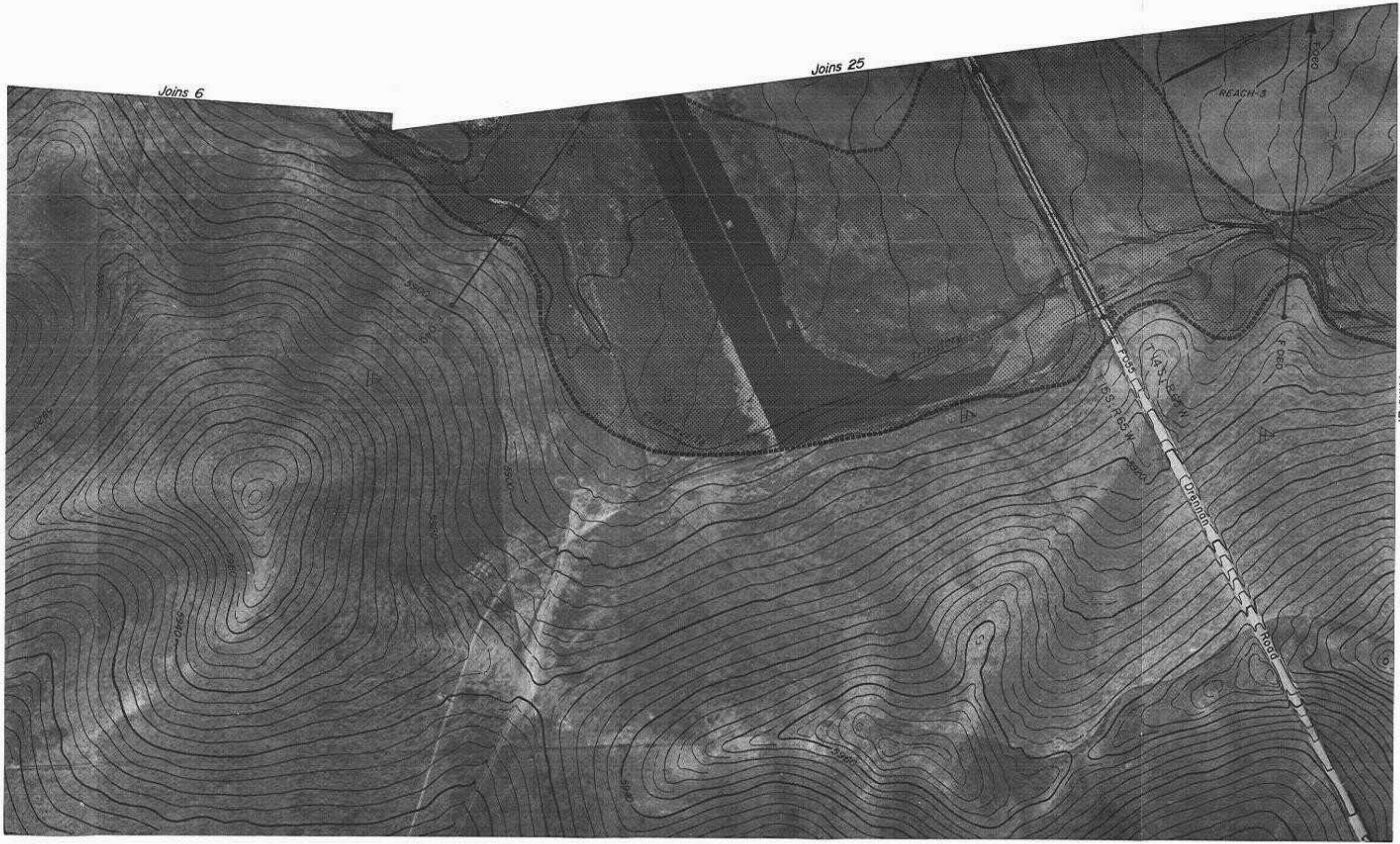
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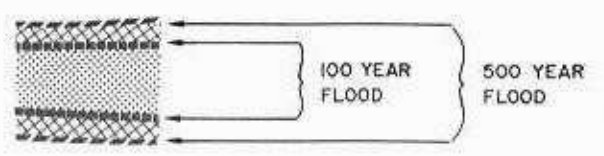
FLOOD HAZARD AREAS
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LEGEND

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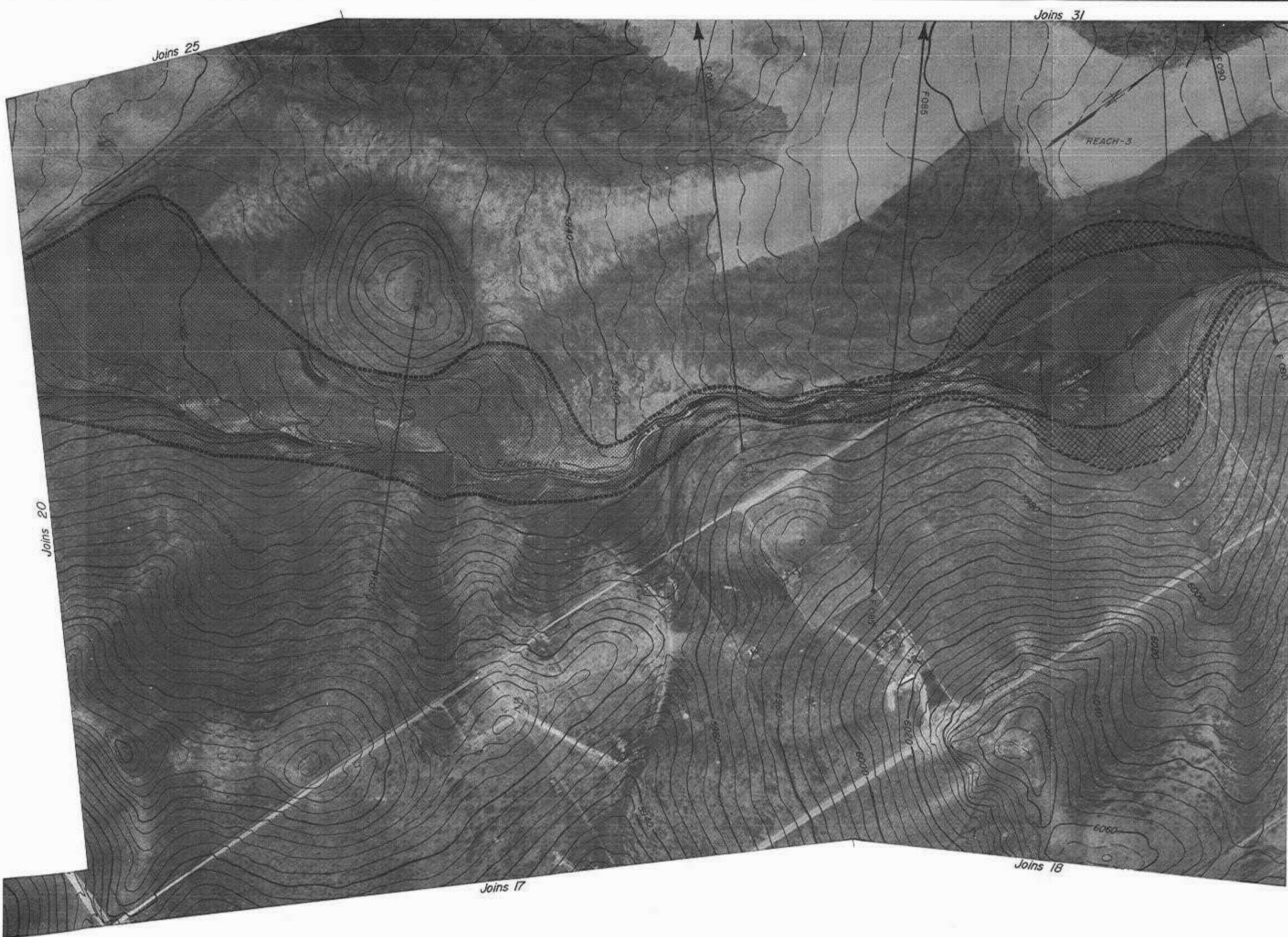
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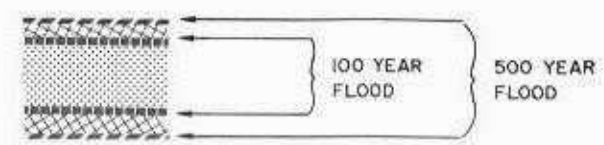
FLOOD HAZARD AREAS
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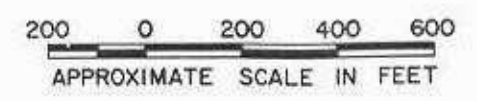
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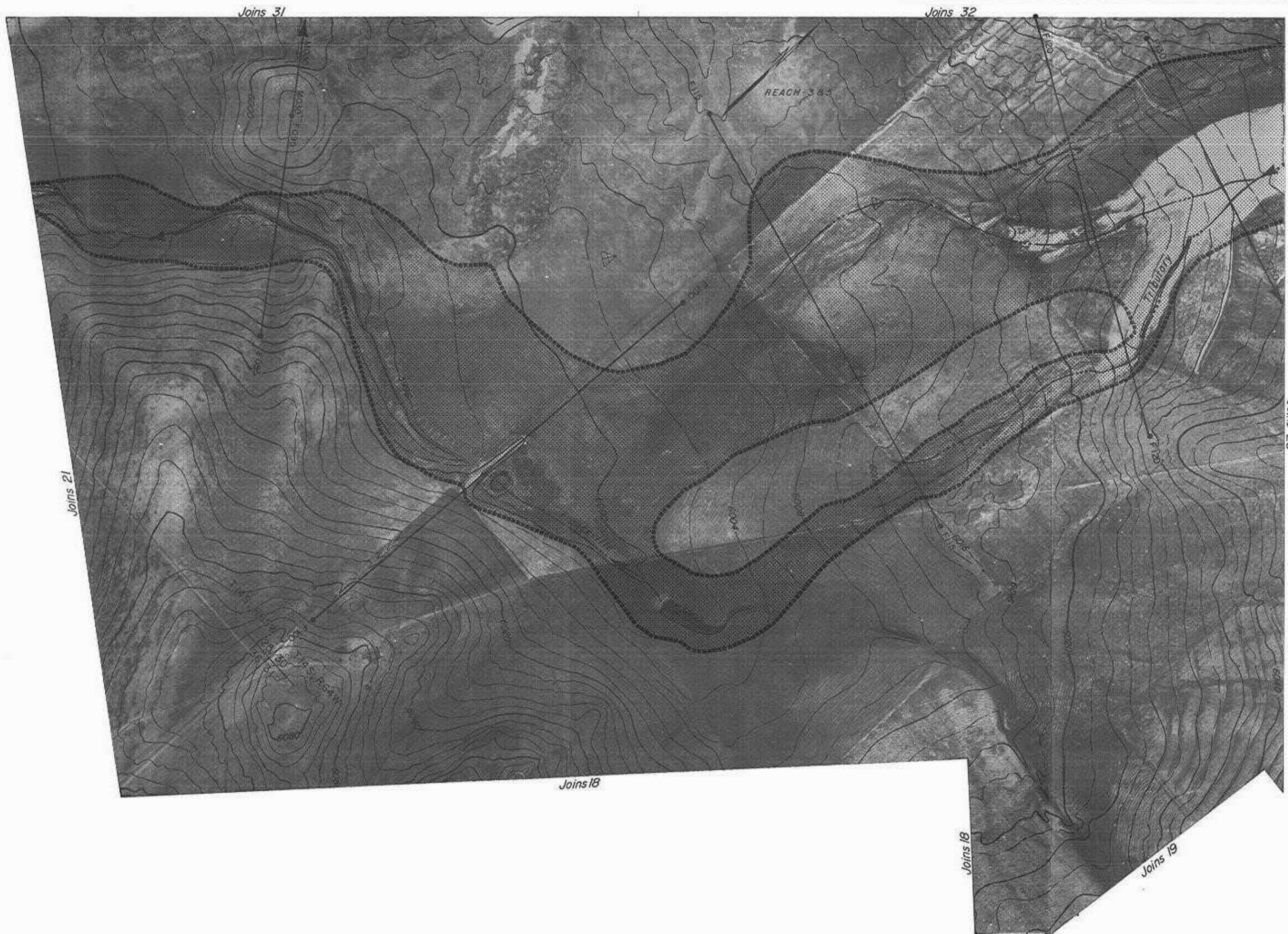
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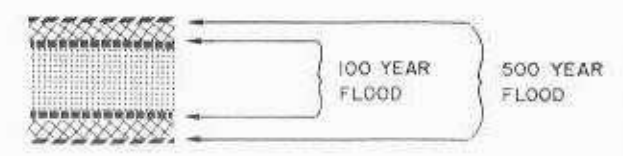
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LEGEND

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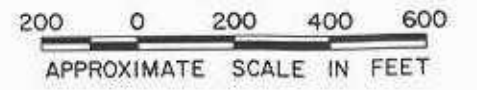
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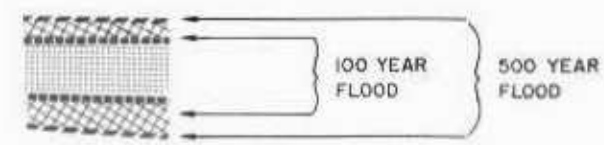
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JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



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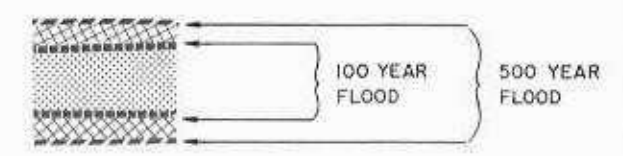
FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



- GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM 5800
- CONTOUR, Index 4.0'
- CONTOUR, Interpolated 2.0'
- CROSS SECTION J100 J100
- CROSS SECTION CONTINUED F050 F050
- INTERMITTENT STREAM
- SURVEY PANEL

AERIAL PHOTOGRAPHY, FLOOD HAZARD AREAS, AND TOPOGRAPHY ARE FOR EXISTING CONDITIONS — MAY 1973.

FLOOD AREA OUTLINES WERE DETERMINED BY MATCHING WATER SURFACE PROFILE ELEVATIONS WITH TOPOGRAPHY.

NOTE: TOPOGRAPHIC DETAIL WAS COMPILED BY PHOTOGRAMMETRIC METHODS TO MEET NATIONAL MAP ACCURACY STANDARDS. THE PHOTOGRAPHIC IMAGE CONTAINS DISPLACEMENTS DUE TO RELIEF AND IT DOES NOT MATCH THE TOPOGRAPHIC DETAIL IN ALL AREAS.

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30 29
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SOIL CONSERVATION SERVICE

FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO

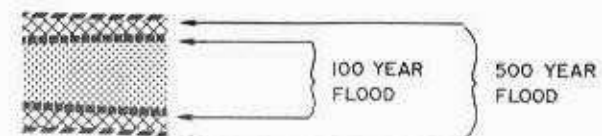
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APPROXIMATE SCALE IN FEET








JULY 1975 SHEET 24 OF 34

Joins 7

LEGEND

FLOOD PLAIN LIMITS



- GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM  5800
- CONTOUR, Index 4.0' 
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FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO

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APPROXIMATE SCALE IN FEET

JULY 1975

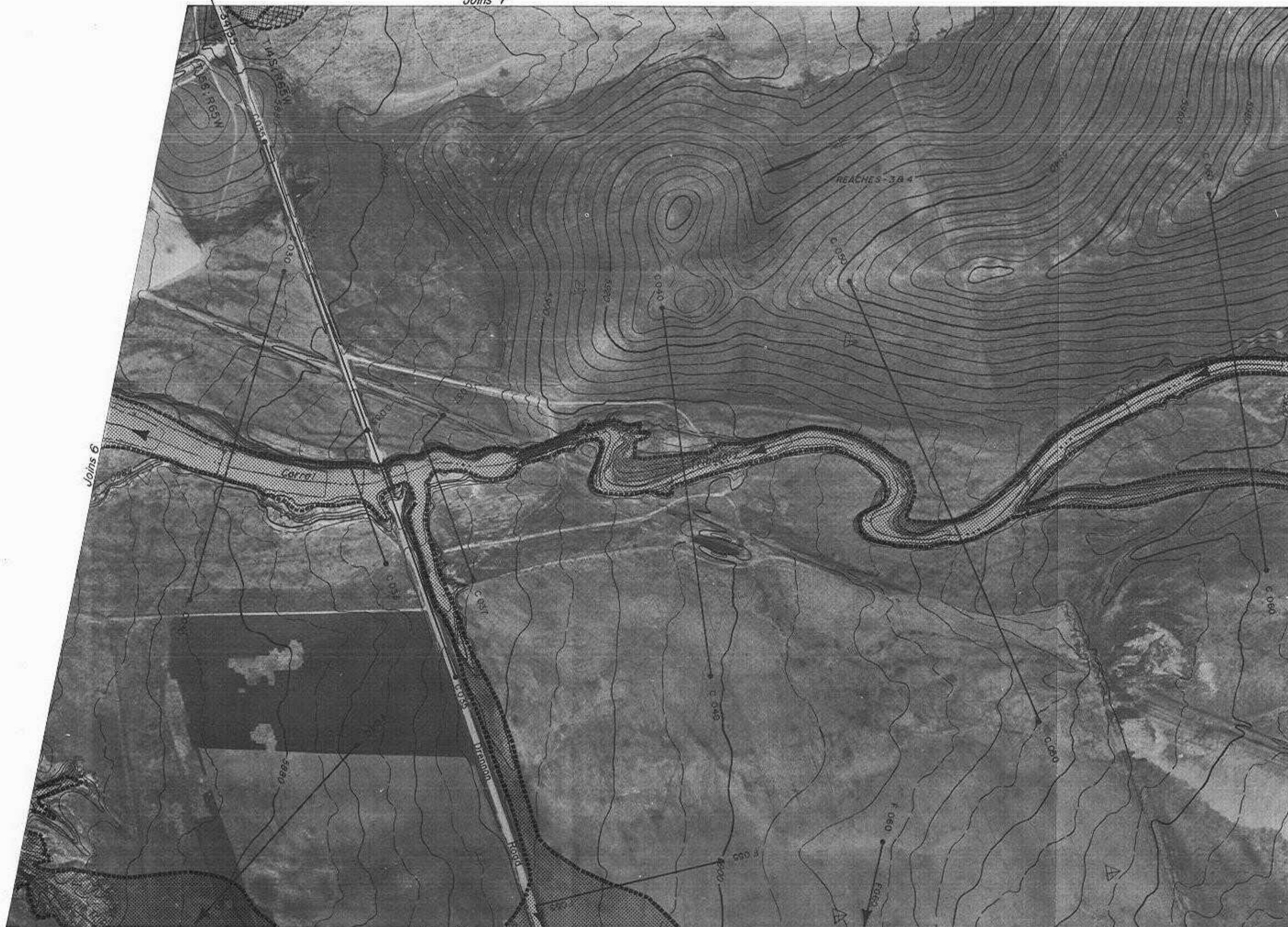
SHEET 25 OF 34

Joins 6

Joins 26

Joins 20

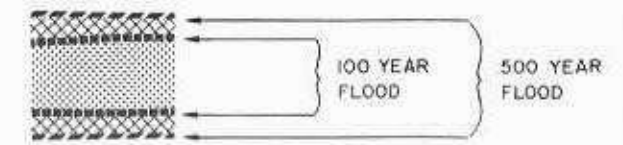
Joins 21





LEGEND

FLOOD PLAIN LIMITS



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- CONTOUR, Index 4.0'
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- SURVEY PANEL

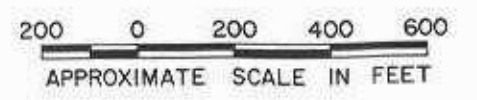
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FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO



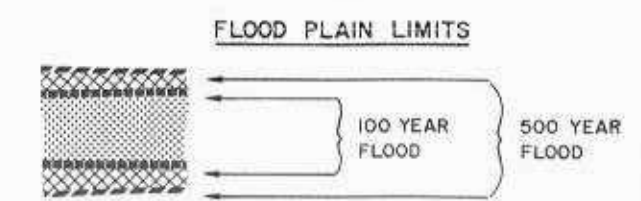
JULY 1975

SHEET 26 OF 34

Joins 31



LEGEND



- GROUND ELEVATION IN FEET MEAN SEA LEVEL DATUM 5000
- CONTOUR, Index 4.0'
- CONTOUR, Interpolated 2.0'
- CROSS SECTION J100 J100
- CROSS SECTION CONTINUED F050 F050
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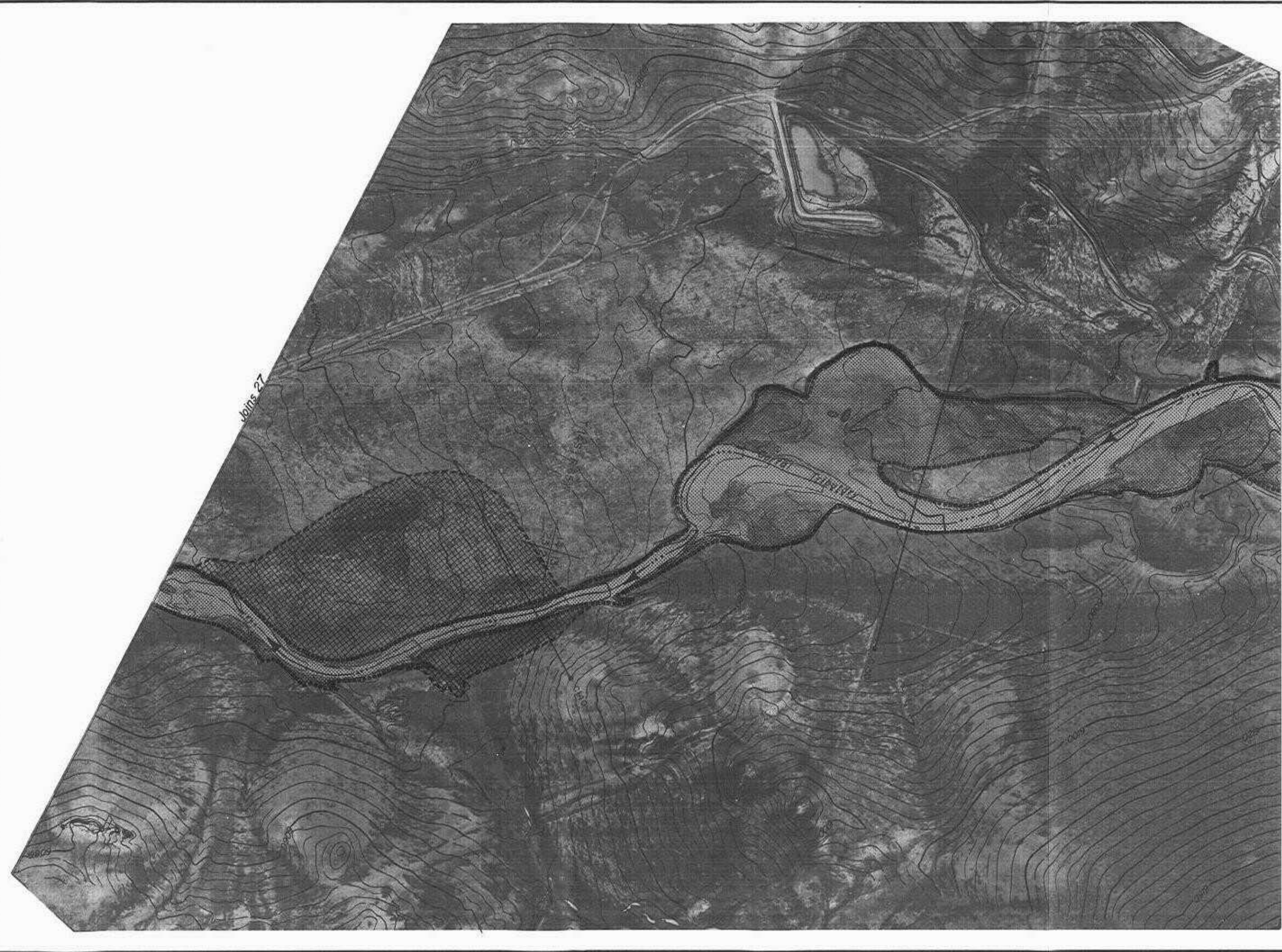
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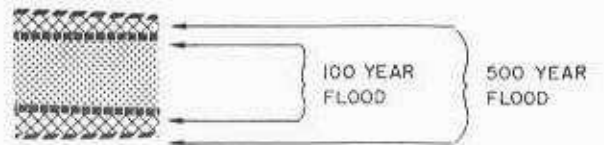
FLOOD HAZARD AREAS
JIMMY CAMP CREEK
EL PASO COUNTY, COLORADO





LEGEND

FLOOD PLAIN LIMITS



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- CROSS SECTION CONTINUED FO50 FO50
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- SURVEY PANEL △

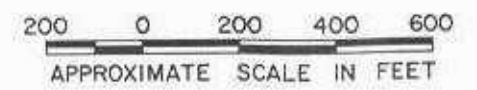
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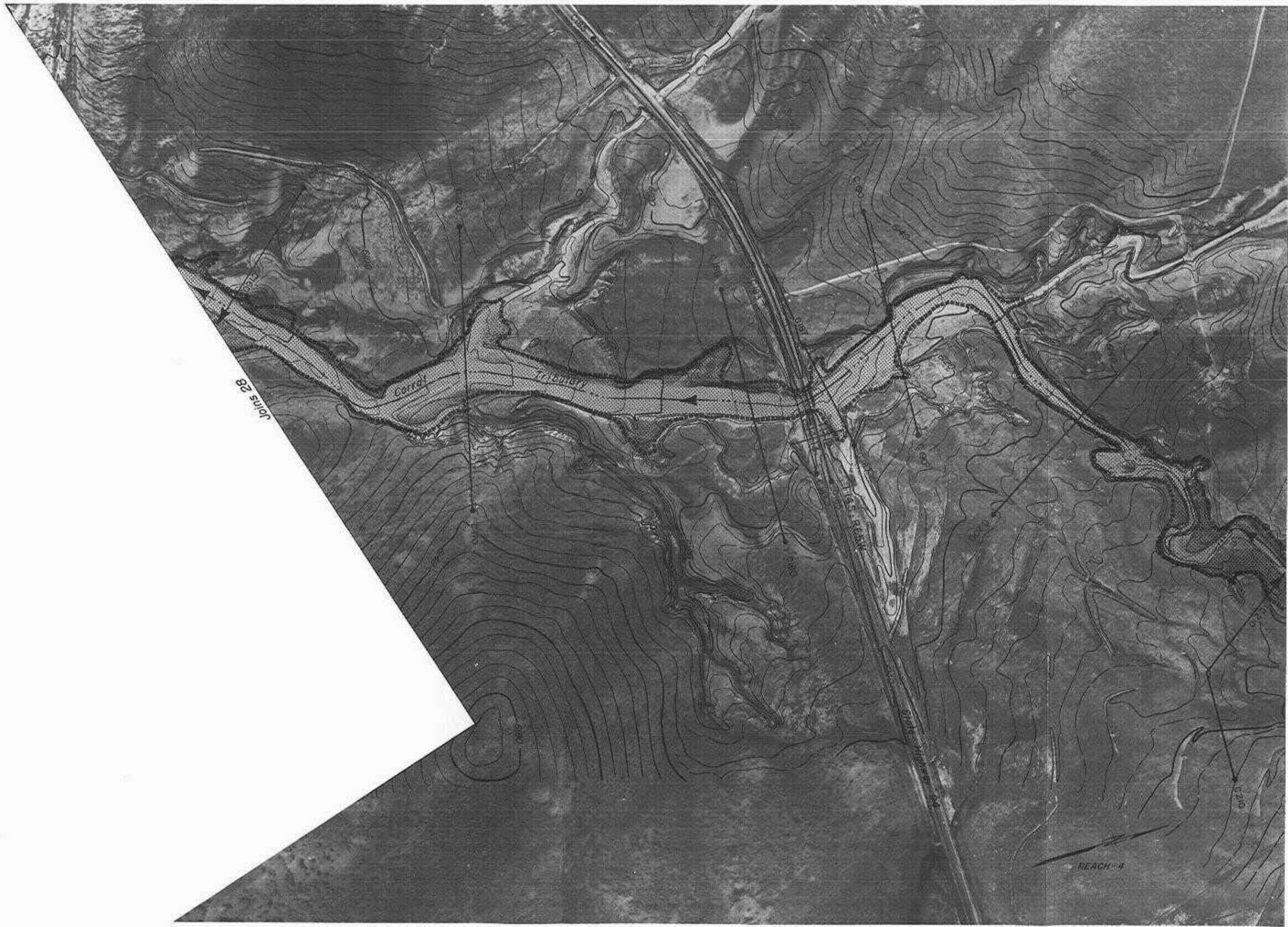
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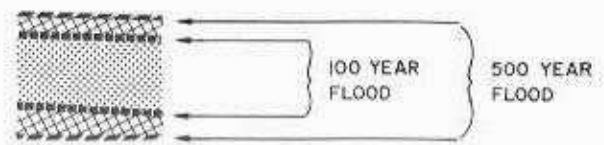
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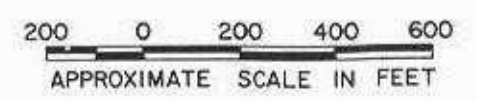
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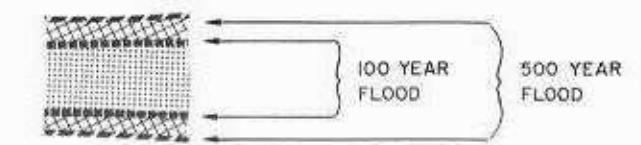
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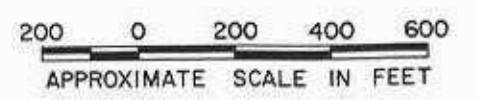
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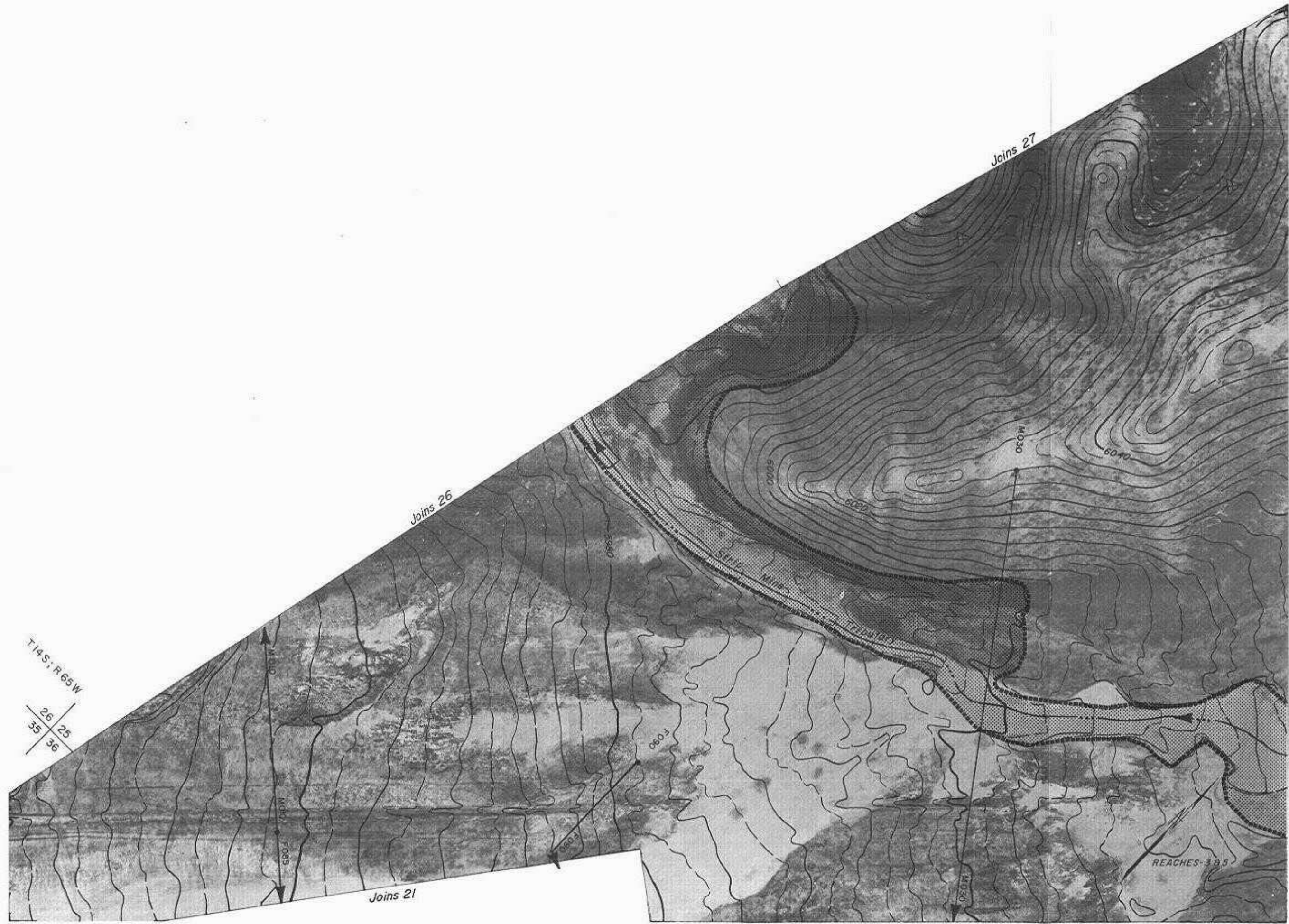
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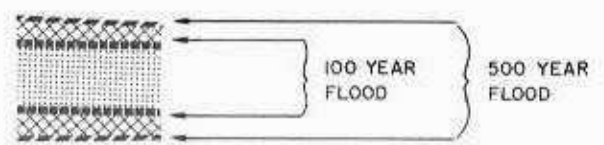
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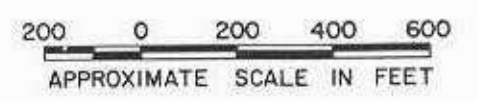
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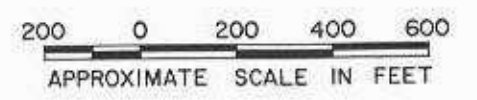
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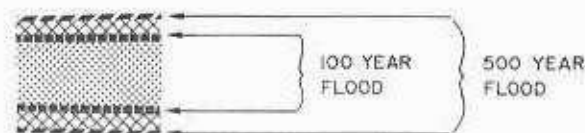
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200 0 200 400 600
APPROXIMATE SCALE IN FEET

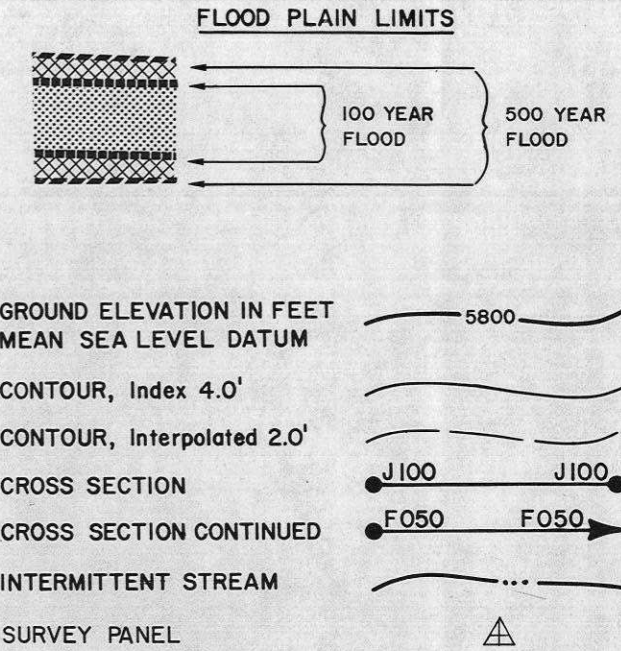
JULY 1975

SHEET 33 OF 34



Joins 33

LEGEND



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