

Document No.:

SUSITNA HYDROELECTRIC PROJECT

RESPONSE OF AQUATIC HABITAT SURFACE AREAS
TO MAINSTEM DISCHARGE IN THE TALKEETHA
TO DEVIL CANYON REACH OF THE
SUSITNA RIVER, ALASKA

By

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Under Contract To
Harza-Ebasco Susitna Joint Venture

Prepared For

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ACKNOWLEDGEMENTS

Aerial photography was flown and continuous photo mosaics prepared by Air Photo Tech, Inc., Anchorage, Alaska, under contract to the Harza-Ebasco Susitna Joint Venture. The aerial photography missions were scheduled through Mr. Steve Bredthauer, R&M Consultants, Inc., Anchorage, Alaska. He did an exceptional job given the highly variable nature of streamflow and weather conditions.

ADF+G for use of
their equipment

AsiDL for technical
assistance in
digitizing

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INTRODUCTION

The proposed Susitna hydroelectric project will alter the natural streamflow, thermal, and sediment regimes of the Susitna River. The river segment downstream from Devil Canyon to the Chulitna River confluence (Talkeetna) would experience notable alterations in natural occurring streamflow patterns, due to its proximity to the proposed damsites and the limited amount of influence that tributary inflows have on total discharge in this river segment. With-project mainstem discharges, as measured at the U.S. Geological Survey (USGS) Gold Creek gaging station, are expected to be lower during summer and notably higher during winter months.

Five species of Pacific salmon and 15 resident fish species utilize a variety of aquatic habitats in the Talkeetna-to-Devil Canyon reach of the Susitna River. Alteration of the natural streamflow patterns by construction and operation of the proposed Susitna hydroelectric project is expected to affect the amount and seasonal availability of the aquatic habitats presently being utilized by these species.

Knowledge of the location and amount of aquatic habitats occurring in the Talkeetna-to-Devil Canyon reach at various different mainstem discharges will facilitate forecasting the effects of reduced mid-summer streamflows on the availability of aquatic habitat to resident and anadromous fish. This report describes the surface area response of six aquatic habitat types to changes in mainstem discharge.

Aquatic habitat mapping and surface area measurements on 1 inch=1,000 feet aerial photography were used to determine the location and amount of fish habitat within the Talkeetna-to-Devil Canyon reach of the Susitna River at mainstem flows of 23,000, 16,000, 12,500, and 9,000 cubic feet per second (cfs). These discharges provide an adequate basis for estimating the magnitude of anticipated changes in the amount and availability of aquatic habitat as a result of construction and operation of the proposed project. However, this report makes no statements concerning the suitability of the habitat areas for habitation by fish, nor how the quality of these habitats may change in response to varying mainstem discharges.

METHODS

Habitat Type Designations

Riverine habitats associated with the Susitna River between Talkeetna and Devil Canyon were classified into six general categories: mainstem, side channel, side slough, upland slough, tributary mouth, and tributary. Although riverine habitat is influenced by channel geometry, these six general categories are not defined as fixed geographical locations along the river. Each habitat category has a unique set of visually recognizable attributes that respond to changes in mainstem discharge, and which are used to determine the type of aquatic habitat that occurs at a particular location. For example, an area described as a side slough habitat would be classified as side channel habitat when turbid mainstem water overtops the upstream head of the slough and inundates the former clear water area.

A The six aquatic habitat categories used in this analysis are described below. These descriptions are limited to physical characteristics that can be easily recognized from the air during helicopter reconnaissance flights. A more detailed description of each aquatic habitat type has been prepared by the Alaska Department of Fish and Game (ADF&G) (1983).

Mainstem habitats are characterized by turbid, glacial water. The channel conveys more than 10 percent of the total flow at a given site.

Side channel habitats also contain turbid, glacial water. These channels convey less than 10 percent of the total flow.

A Side slough habitats contain clear water. Local surface water runoff and upwelling are the primary water sources that supply clear water to the side sloughs. Side sloughs have nonvegetated upper thalwegs that are overtopped during periods of moderate to high mainstem discharge. Once overtopped, side sloughs are considered side channels.

Upland sloughs are clear water habitats that depend upon upwelling and/or local runoff as their clear water sources. Upland sloughs possess vegetated upper thalwegs that are seldom overtopped by mainstem discharge.

A Tributary mouth habitats are clear water habitats that exist where tributary contributions to the mainstem are visible. These habitats are manifest as a clear water plume extending into the turbid mainstem or side channel. The size of this plume is influenced by the amount of tributary discharge and adjacent mainstem water surface elevations.

Tributary habitats are clear water reaches of tributary streams upstream of the tributary mouth habitats.

Nonwetted areas were classified as vegetated islands, exposed streambank and gravel bars, or background area. The background area consists of both wetted and nonwetted surface areas that are within the river corridor but are not relevant to the analysis. Individual surface areas were classified by using a descriptive key adapted from the ADF&G SuHydro classification Index for aquatic habitat types and by incorporating staff thought process when classifying individual habitat areas during their helicopter reconnaissance flights (Figure 1).

Field Methods

Complete photographic coverage was obtained of the Talkeetna-to-Devil Canyon reach at four streamflows. Black-and-white aerial photographs were obtained at an approximate scale of 1 inch=1,000 feet with a 60 percent overlap between adjacent photos when Susitna River discharges as measured at the USGS Gold Creek gaging station (#15292000) were 23,000, 16,000, 12,500, and 9,000 cfs.

Helicopter reconnaissance flights were conducted by E. Woody Trihey and Associates over the Talkeetna-to-Devil Canyon reach at the same mainstem discharges at which the aerial photography was obtained. Three additional reconnaissance flights were conducted when mainstem discharges were 7,290, 10,600, and 20,900 cfs. During each of these reconnaissance flights, habitat types were identified using the key presented as Figure 1 and their locations were mapped on 1 inch=1,000 feet blue-line prints of the Susitna River. Dewatered gravel bars and streambank areas were

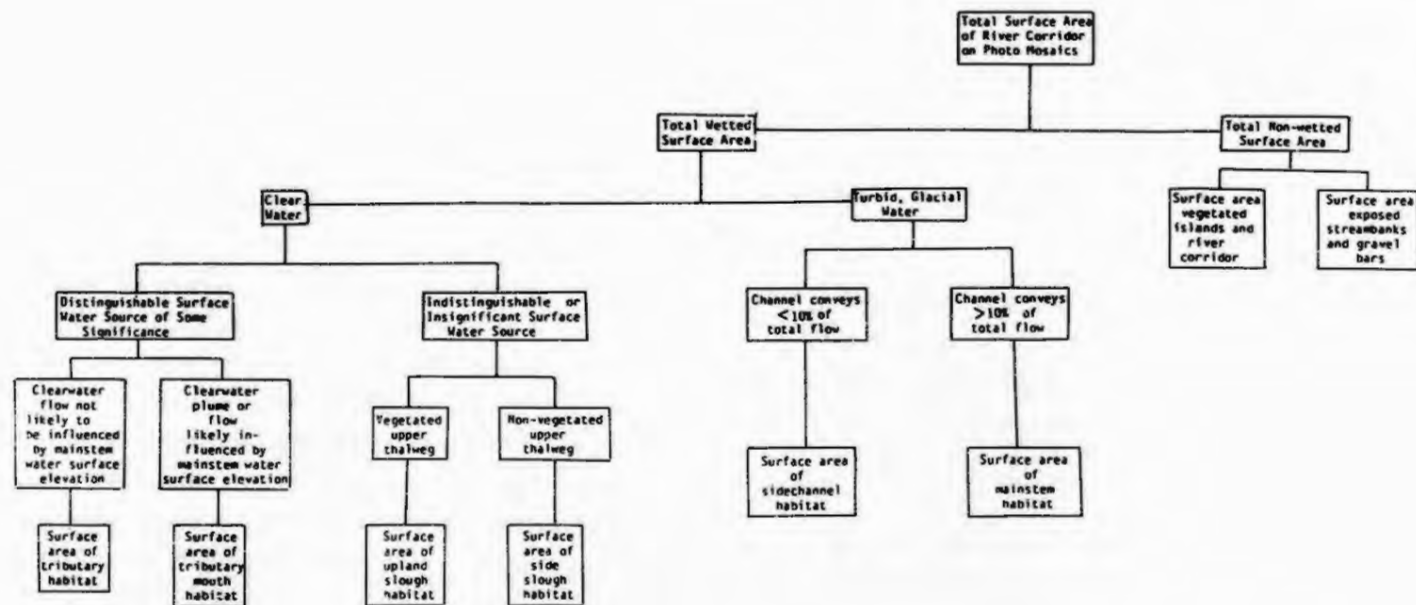


Figure 1. Key to aquatic habitat classification for the Talkeetna-to Devil Canyon reach of the Susitna River (RM 101 to 149).

A sketched on the blue-line prints as were boundaries of the various aquatic habitat types.

Office Procedures

Photo Plates and Enlargements

Photographic mosaics were prepared by Air Photo Tech, Inc. from the overlapping black-and-white photos to provide continuous 1 inch=1,000 feet coverage of the Talkeetna-to-Devil Canyon river segment for each of the four flows. The photo mosaics were subdivided into eighteen sections of approximately the same length, with a small amount of overlap between adjoining river sections. The same dividing lines between adjoining segments were maintained for all four flows, and a set of eighteen 4-1/2 inch by 15 inch photo plates were printed from the sectioned mosaics for each of the four flows. Each photo plate was carefully examined and areas that were too small in size on the 1 inch=1,000 feet photography to provide detailed resolution of small or complex habitats were enlarged to a scale of 1 inch=250 feet.

Habitat Type Boundaries

Aquatic habitat boundaries mapped on the blue-line prints during the helicopter reconnaissance flights were transferred to individual photo plates and enlargements. Matchlines were drawn on adjoining plates to ensure that habitat areas would not be counted twice within any of the overlapping coverage near the edges of photo plates. The boundary of each enlargement area was established using identifiable features in the

photography and drawn on both the plate and the individual enlargement to ensure that areas within the enlargement could be summed and compared with the enlargement area on the plate. The external boundaries of the total area to be included in the surface area analysis (hereafter referred to as the corridor area) were defined on each plate, so that all areas within the corridor area could be totaled and compared with the total corridor area.

Digitizing

Surface area measurements were made using a Numonics Corporation Electronic Graphics Calculator and Model 2400 DigITablet. By tracing the perimeter of a given area, the area contained within the perimeter is calculated and displayed to an accuracy of 0.0001 square inches. For the 1 inch=1,000 feet scale photography, this represents an accuracy of 100 square feet.

Each individual photo plate and its accompanying enlargements were digitized and evaluated separately. The total surface area of the corridor was digitized to establish a control area. Each individual habitat area excluding those within a designated enlargement were then assigned a unique sequential number and their surface areas digitized. Replicate digitized measurements were made for each individual area to insure repeatability within 5 percent.

Following completion of these area measurements, the total surface area of enlargements appearing on the plate were digitized. Individual areas within each enlargement were then assigned a unique sequential number

following the last number assigned to an individual area on the photo plate or previous enlargement. These areas were then digitized and the individual areas totaled for comparison to the total digitized area of the enlargement.

Following completion of digitizing for a given plate, individual area measurements were summed and compared to the total area measurement for the corridor. A difference of less than 5 percent was considered acceptable. This procedure was repeated for all 18 photo plates at each of four flows. Thus, each digitized area on a photo plate or its associated enlargements had a unique identifying number associated with all four flows, and the sum total of these individual areas was within 5 percent of the total corridor area.

Data Base

Area measurements were entered into a computerized data base for storage, sorting and subsequent analysis. Each individual surface area measurement was entered as a separate record with its unique address that enabled identification by flow, photo plate (corresponding to a river mile index), and individual area number. Data were retrievable in a variety of formats: by flow, by river mile index, or by retrieving and combining specific individual areas. In this way, the influence of mainstem discharge on the surface area of specific habitat types or locations could be routinely investigated.

Correction factors were entered to standardize all measurements to a common scale of 1 inch=1,000 feet. Surface areas within all enlargement areas were divided by a factor of 16 to account for the four-fold difference in scale between 1 inch=250 feet and 1 inch=1,000 feet. Due to poor weather and associated low ceilings, the 9,000 cfs photography was flown at a scale of 1 inch=920 feet whereas the other three sets of photography were obtained at a scale of 1 inch=1,000 feet. Therefore, all surface area measurements for the 9,000 cfs photography were multiplied by a factor of 0.85 to correct for this difference in scale.

Analysis Procedures

Total surface areas were calculated for the entire control corridor between Talkeetna and Devil Canyon by aquatic habitat type for each of the four flows. Summations of surface area for the corridor and aquatic habitat types were also made by individual plate. Percentages of the total surface area represented by each habitat type was calculated for each of the four flows by river reach and individual plate.

A series of procedures were employed to evaluate the reliability of the digitizing. These procedures identified flow-dependent trends in the digitized data that would verify the accuracy and consistency of the methodology. Comparisons were made between total surface areas digitized at each of the four flows for the corridor, vegetated bar, background, and tributary areas. In addition, percentages of the total surface area represented by each aquatic habitat type were calculated as were the percentages of total surface area for exposed gravel, vegetated bars and

background area at each of the four flows. These percentages were summed and the deviation from 100 percent was determined.

The magnitude of surface area change in individual habitat types in response to changes in mainstem discharge was determined. The 23,000 cfs aerial photography was chosen as being representative of typical mid-summer discharge conditions for the Susitna River in the Talkeetna-to-Devil Canyon reach (Bredthauer and Drage, 1982), and the percent change in surface areas was calculated as measured from the mid-summer baseline of 23,000 cfs.

Finally, the Talkeetna-to-Devil Canyon reach was subdivided into four segments that reflect different geomorphological characteristics, and the surface areas of each habitat type within these segments were presented as functions of streamflow.

RESULTS

Total surface areas within the control corridor are presented in Table 1 by aquatic habitat type and sub-area for each photo mosaic. Surface area values are presented in square inches with a precision of ± 0.0001 square inches.

Surface area of side slough habitats increased with decreasing mainstem discharge. Upland slough surface area showed a declining trend with decreasing discharges.

Table 1. Surface areas (in²) within the control corridor for the Talkeetna-to-Devil Canyon reach by Flow (cfs)

HABITAT TYPE	Total Surface Area (in ²) for Streamflow Indicated			
	<u>9,000</u>	<u>12,500</u>	<u>16,000</u>	<u>23,000</u>
Mainstem	104.6359	124.1486	137.5642	162.7688
Side Channel	33.2784	48.0746	53.3598	54.0370
Side Slough	6.5888	5.3440	3.7434	2.2884
Upland Slough	.6134	0.6774	0.8813	1.1081
Tributary Mouth	0.4907	1.1409	1.1020	0.5261
Tributary	0.1464	0.1221	0.1225	0.1289
Gravel Bars	91.1114	74.8840	61.6966	35.5325
Vegetated Bars	74.6605	83.5851	92.1459	74.8437
Background	<u>144.0751</u>	<u>160.9349</u>	<u>150.0208</u>	<u>144.9135</u>
Total Corridor Area	455.6006*	498.9116	500.6365	476.1470

*Snow and shoreline ice complicated the digitizing of this set of photography.

Tributary mouth habitat was low at 9,000 cfs mainstem discharge, increased at flows of 12,500 and 16,000 cfs, then declined at 23,000 cfs. Surface area of vegetated bars remained relatively constant over the range of mainstem flows. Tributary habitat increased slightly with decreasing discharge.

The values presented in Table 1 were plotted to illustrate habitat types to changes in mainstem discharge as measured at the USGS Gold Creek gaging station (Figure 2). Surface areas of mainstem and side channel habitats increased with increasing mainstem discharge. Concurrently, exposed gravel bars decreased with increasing discharge.

Percentages of total surface area within the control corridor are presented in Table 2 by category for each of the four flows.

Table 3 presents the percentage change in the surface areas of each habitat type with decreasing mainstem discharge as calculated from a baseline flow of 23,000 cfs.

Figures 3-6 present the surface area response of individual habitat types to mainstem discharge in four segments of the Talkeetna-to-Devil Canyon reach. These segments are from river miles 101 to 113, 113 to 122, 122 to 138, and 138 to 149. The percentage of the total area that each habitat type represents varies for each of these river segments, but the general trends displayed by the entire study reach are also shown in these segments.

Figure 2. Surface area responses to mainstem discharge in the Talkeetna-to-Devil Canyon reach of the Susitna River (RM 101 to 149).

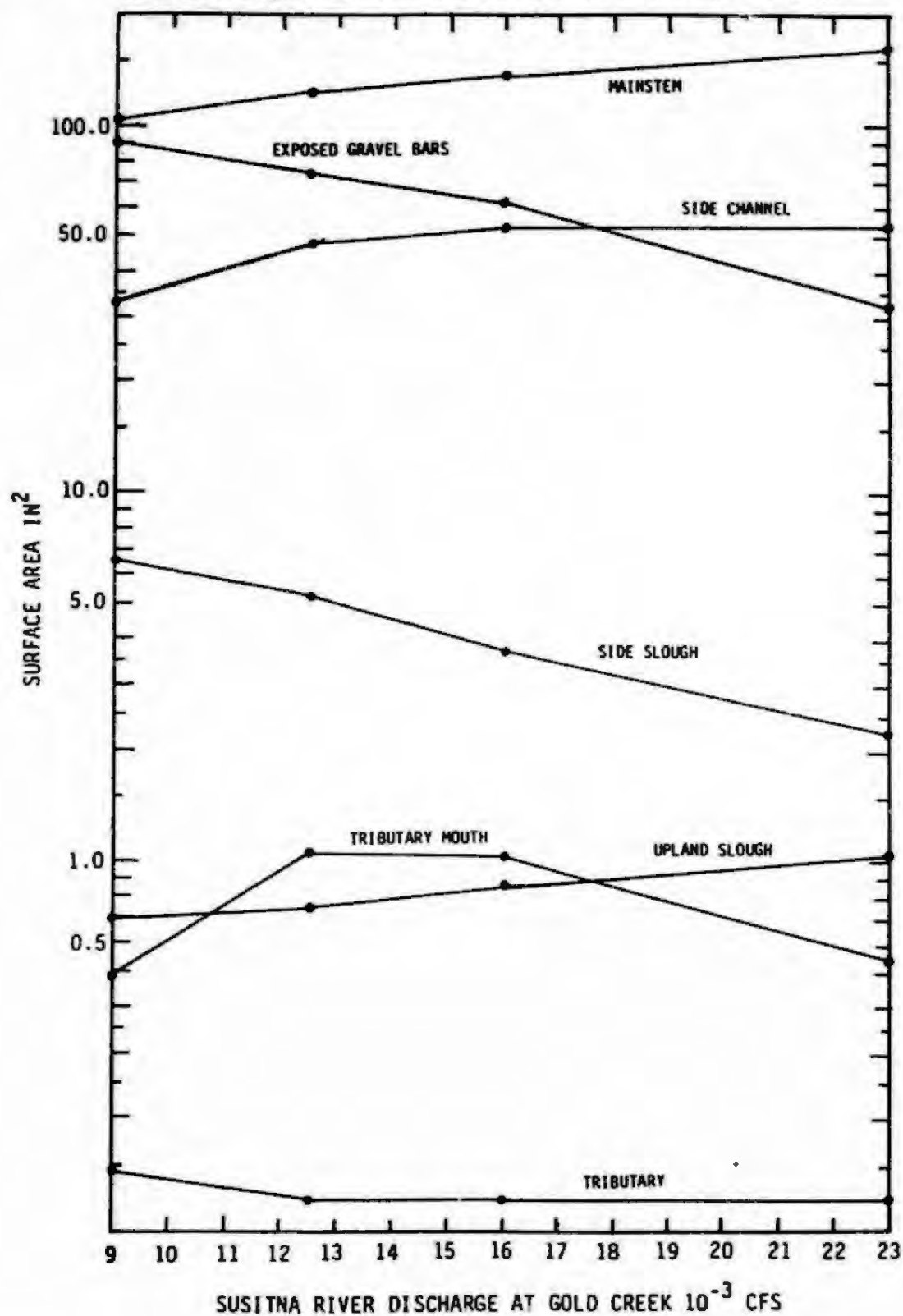


Table 2. Percentage of Total Corridor Surface Area by Category and Mainstem Discharge.

HABITAT TYPE	Percentage of Total Corridor Surface Area (ln ²) by Streamflow (cfs) Indicated			
	9,000	12,500	16,000	23,000
Mainstem	22.93	24.88	27.48	34.18
Side Channel	7.29	9.64	10.66	11.35
Side Slough	1.44	1.07	0.75	0.48
Upland Slough	0.22	0.14	0.18	0.23
Tributary Mouth	0.11	0.23	0.22	0.11
Tributary	0.03	0.02	0.02	0.03
Gravel Bars	19.97	15.01	12.32	7.46
Vegetated Bars	16.36	16.75	18.41	15.72
Background	31.61	32.26	29.97	30.43

Table 3. Percent Difference In Aquatic Habitat Surface Areas
Present at 23,000 cfs Flow

<u>HABITAT TYPE</u>	<u>9,000</u>	<u>12,500</u>	<u>16,000</u>
Mainstem	-35.72	-23.73	-15.48
Side Channel	-38.42	-11.03	-1.25
Side Slough	287.92	133.53	63.58
Upland Slough	-45.05	-38.87	-20.47
Tributary Mouth	-6.73	116.86	109.47
Tributary	13.58	-5.28	-4.97
Gravel Bars	156.42	110.75	73.63
Vegetated Bars	-0.24	11.68	23.12
Background	-0.58	11.06	3.52

Figure 3. Surface area responses to mainstem discharge in the Talkeetna to Lane Creek segment of the Susitna River (RM 101 to 113).

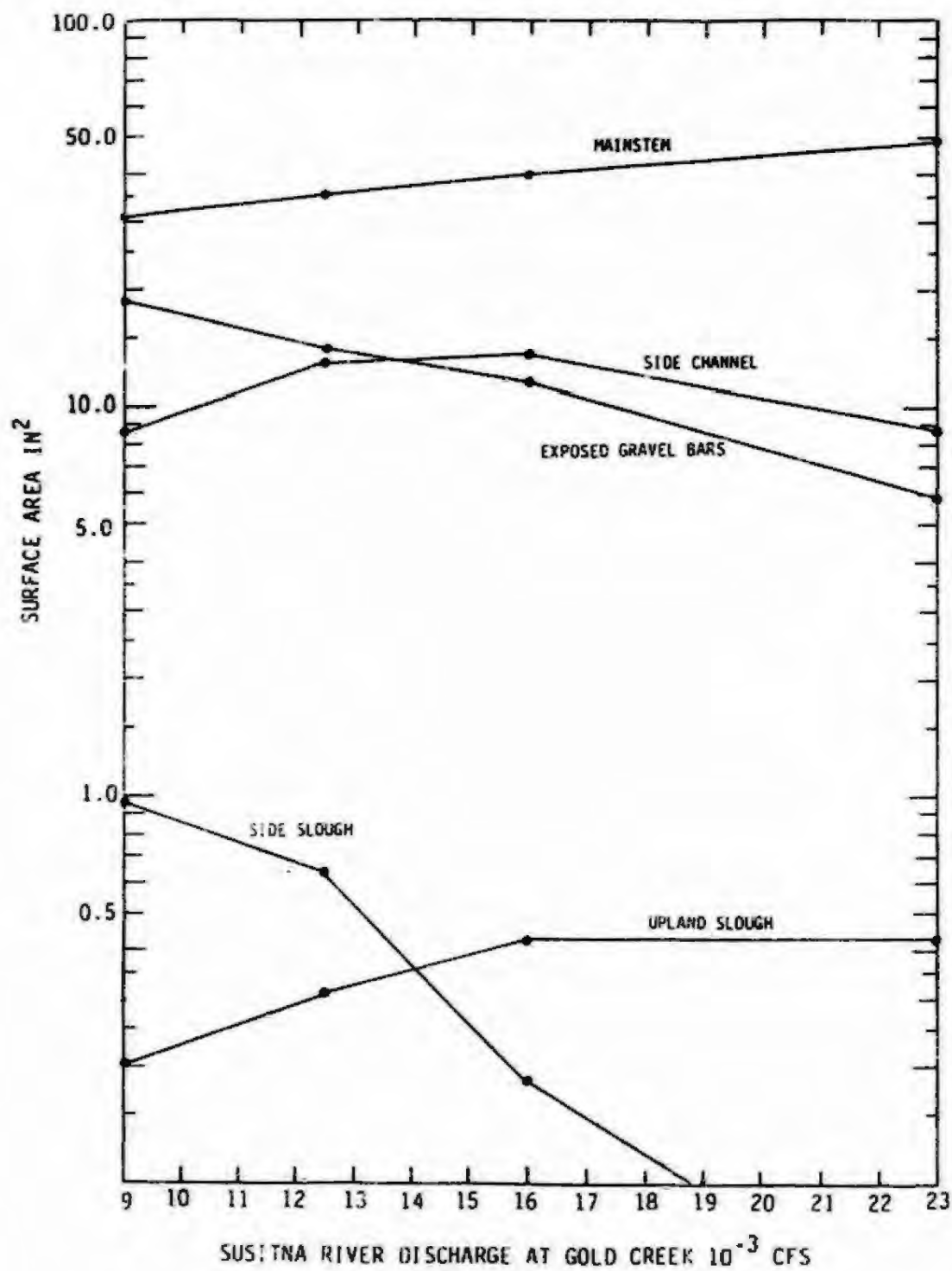


Figure 4. Surface area responses to mainstem discharge in the Lane Creek to Curry segment of the Susitna River (RM 113 to 122).

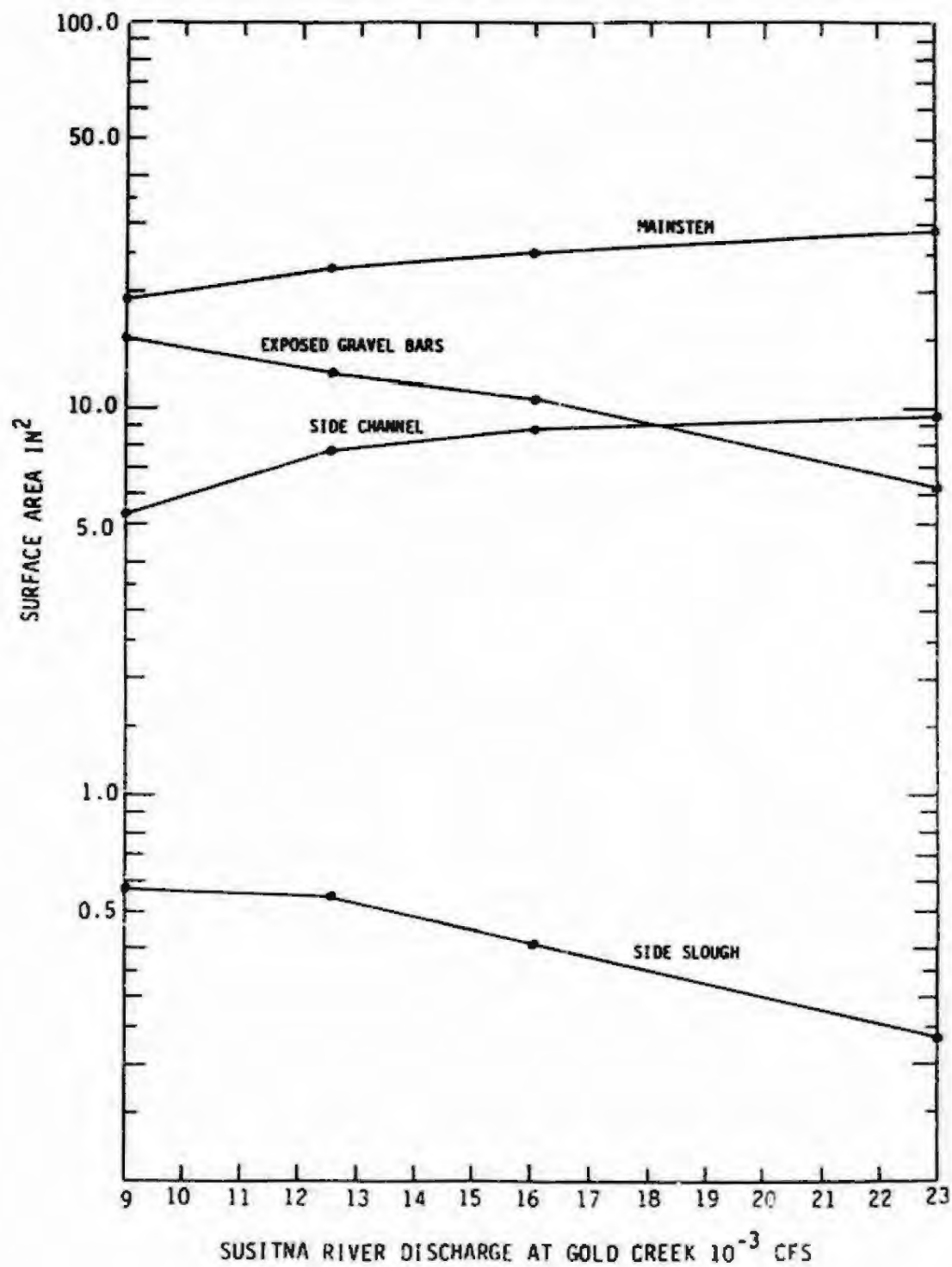


Figure 5. Surface area responses to mainstem discharge in the Curry to Gold Creek segment of the Susitna River (RM 122 to 138).

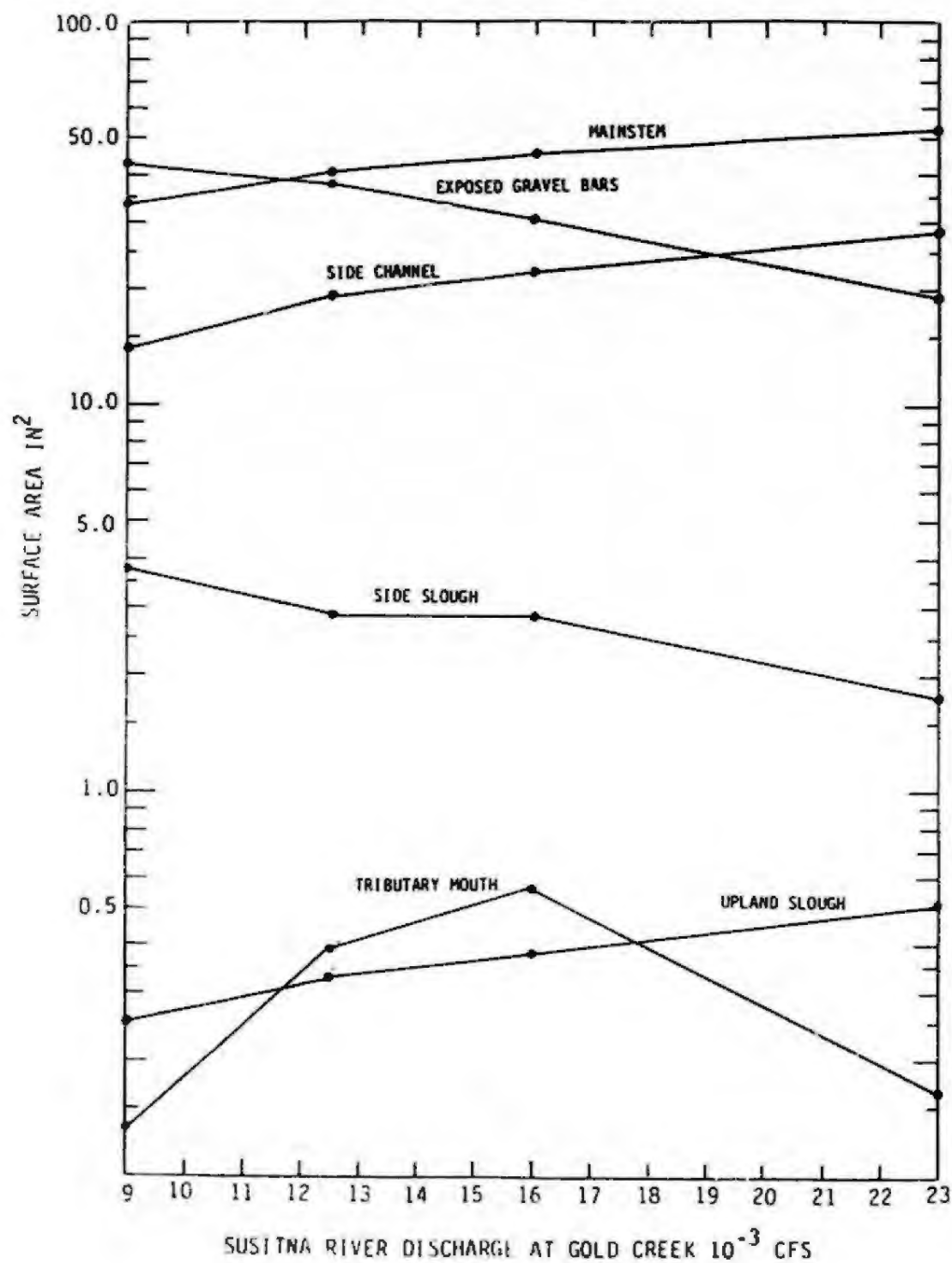
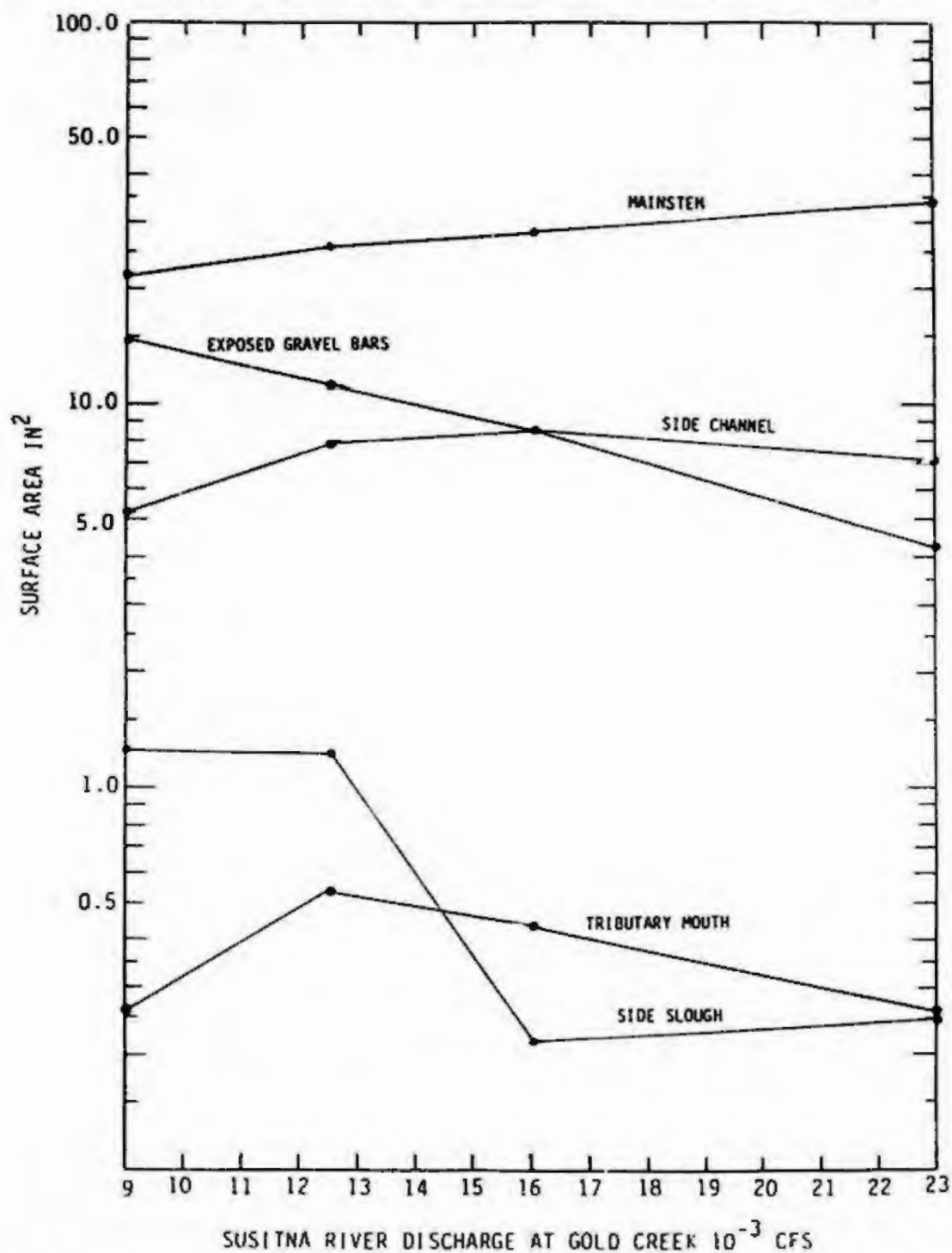


Figure 6. Surface area responses to mainstem discharge in the Gold Creek to Devil Canyon segment of the Susitna River (RM 138 to 149).



DISCUSSION

Air photo interpretation is highly dependent on the quality of the photography. Although clear and complete, each set of photography has particular characteristics that are a result of the time of day, date and weather conditions prevailing at the time the aerial photographic missions were flown. These characteristics can affect the extent to which certain detailed features are visible. The 9,000 cfs photography, obtained on October 10, 1983, was taken after ice had begun to form on the river and after snow had covered the ground. In some cases, this made the determination of the water's edge more difficult. In other cases, particularly for upland sloughs, the contrast of open water with the snow combined with the lack of foliage on the deciduous vegetation better defined the perimeter of the slough.

The 23,000 cfs photography, obtained on June 1, 1982, was taken with the sun at a high angle resulting in few shadows. In addition, the deciduous vegetation had not fully leafed-out, enabling better definition of water's edge and slough boundaries.

The 12,500 and 16,000 cfs photography, obtained on September 11, 1983 and September 6, 1983, respectively, were taken with the sun at a lower angle, resulting in more shadows. These shadows, in combination with fully-leafed out vegetation, made some surface area delineations difficult.

The procedures employed to evaluate the accuracy and reliability of the digitizing corroborated our techniques. Total surface areas of the control corridors were compared at four discharges and were found to deviate from 1.1 to 5.3 percent from the arithmetic mean for the Talkeetna-to-Devil Canyon reach. This indicates that a high level of precision was maintained during the digitizing and good replicability exists between the four sets of aerial photography. Total surface areas for vegetated bars and background areas were compared between the four flows and were found to remain relatively constant. This would be expected due to the limited influence of the active channels on these areas.

Habitat categories used in this study represent a set of visually recognizable, streamflow dependent physical characteristics occurring in a particular area at a given time. These categories are not fixed geographical locations. Good examples of the flow-dependent nature of habitat categories are side sloughs and side channels. Side sloughs, by definition, are clear-water habitats with upwelling and surface water runoff being the major source of water. An exposed alluvial berm often separates the head of the slough from the active channel. When mainstem discharge increases and the berm is overtopped, turbid mainstem water flows into the channel and inundates the former clear water habitat. The channel now fits the description of a side channel habitat.

As mainstem discharge decreases, areas classified as side channels may become cutoff from mainstem flow and become clear water habitats. These areas are then classified as side sloughs. This classification makes no statement concerning habitat quality. Insufficient time and resources

were available to field verify the presence or absence of upwelling in these areas. Field verification is necessary to determine quality and suitability of these areas for fish habitat.

With decreasing mainstem discharge, the backwater effects at the downstream end of the sloughs were reduced. Thus the total surface area of the slough was increased as the sloughs flowed farther out to meet with mainstem or side channel water.

The primary effects of a reduction in mainstem discharge are associated with the reduction of mainstem and side channel habitat surface area and an increase in the amount of side slough and exposed gravel bar surface area. The changes in side channel and side slough surface areas reflect both the dewatering of areas as the flow is decreased and the change in classification.

Surface areas of tributary streams were summed and found to increase slightly at a mainstem discharge of 9,000 cfs. As widths of the mainstem channels decrease with decreasing discharge, tributaries must flow a somewhat greater distance and, therefore, tributary surface area increased at low mainstem discharge. Tributary mouth habitat is dependent on tributary flow as well as mainstem discharge and channel geometry. The reduction of tributary mouth habitat at 9,000 cfs may reflect a greater influence from low tributary flows that occurred in October rather than the influence of mainstem channel geometry.

BIBLIOGRAPHY

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Susitna hydro aquatic studies. Phase II basic data report. Vol. 4: Aquatic habitat and instream flow studies, 1982. Anchorage, Ak. Part I, p. 2.

Bredthauer, S., and B. Drage. 1982. Alaska Power Authority, Susitna hydroelectric project; task 3 - hydrology; river morphology. R&M Consultants, Inc., Anchorage, Ak. Report for Acres American, Inc.

PLATES

need a map
legend to show
plate coverage



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

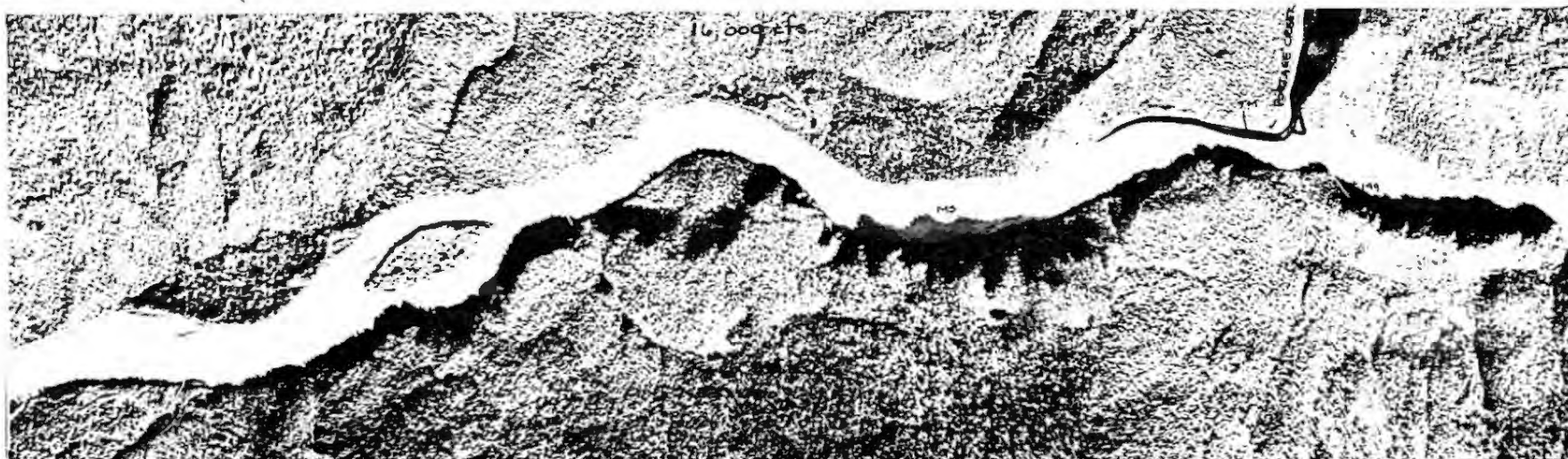
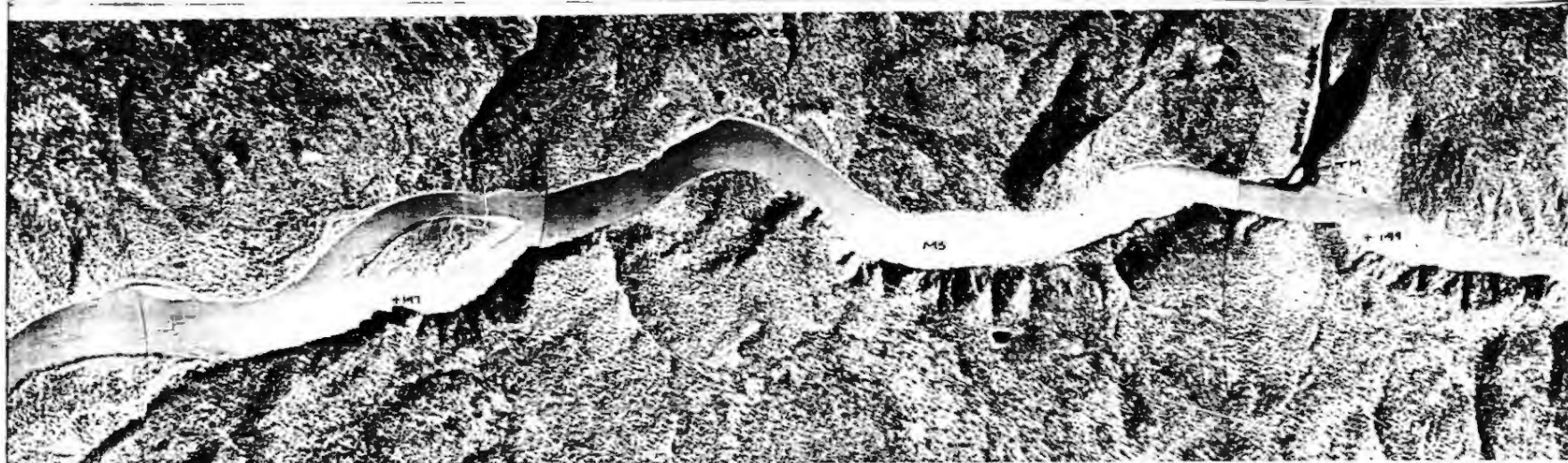
MIDDLE SUSITNA RIVER

PLATE 1 OF 18 RIVER MILE 147 to 149

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWI&A

HAZEL-ELSON



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

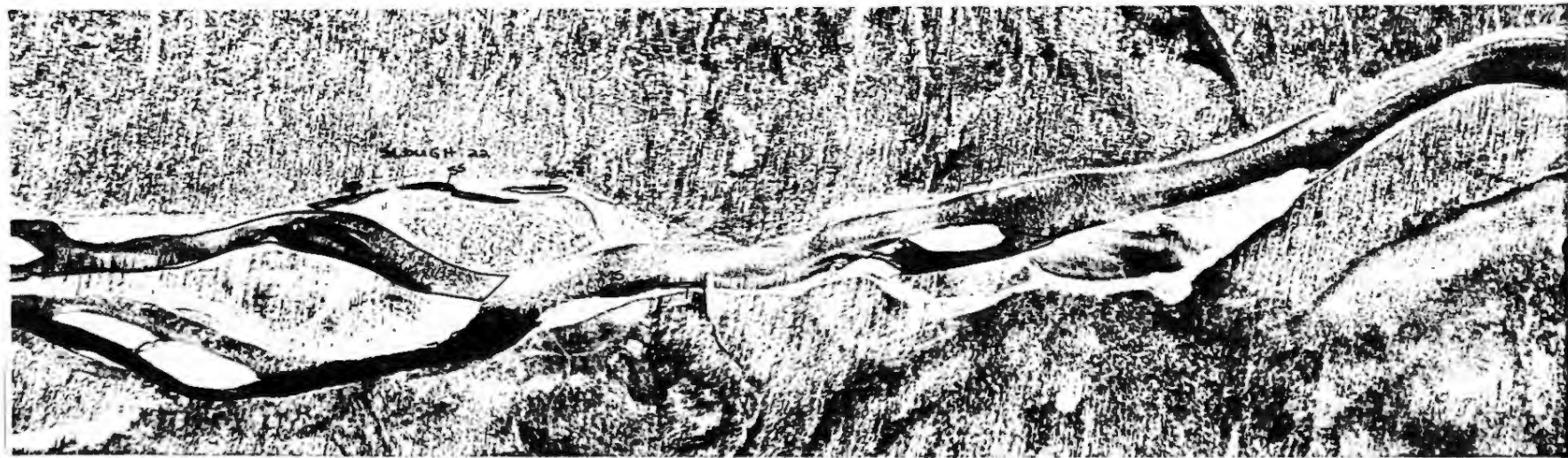
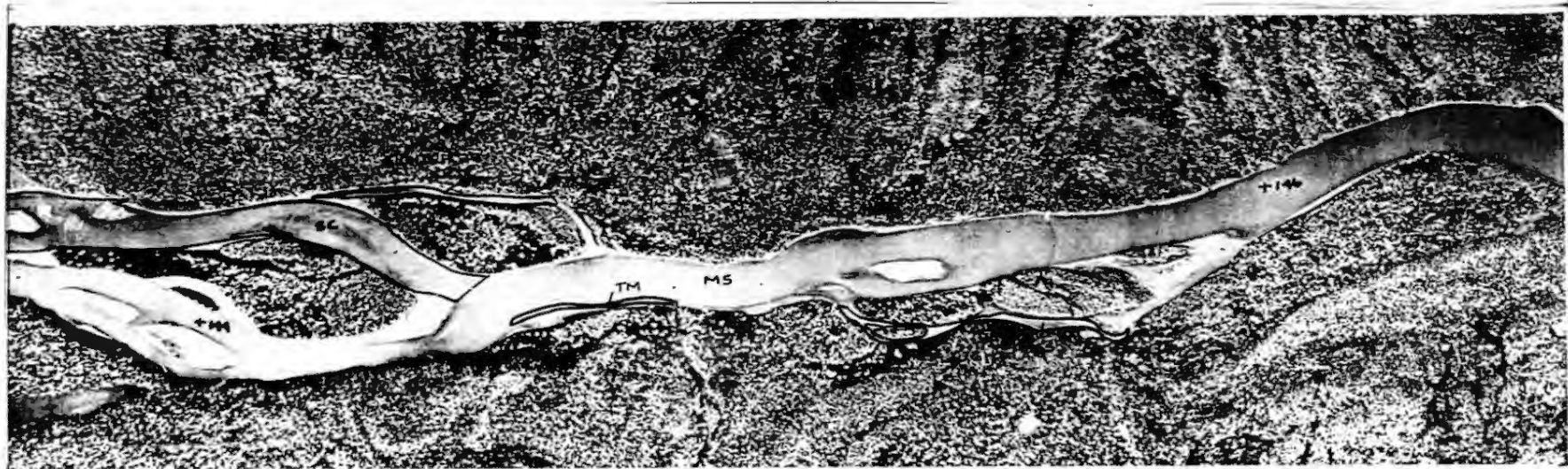
MIDDLE SUSITNA RIVER

PLATE 1 OF 18 RIVER MILE 147 TO 149

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

BARZA-THOMPSON



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

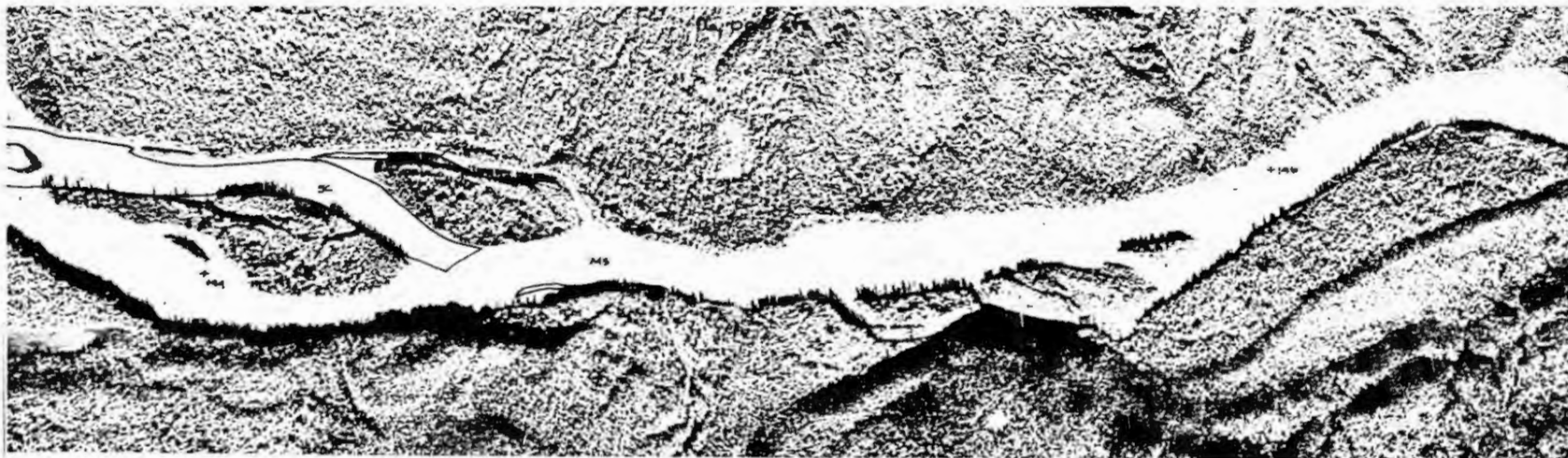
MIDDLE SUSITNA RIVER

PLATE 2 OF 18 RIVER MILE 14.4 TO 14.6

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

HAZARD



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 2 OF 18 RIVER MILE 144 TO 146

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA&A

ENGINEERS ARCHITECTS & ENVIRONMENTALISTS

HAZARD-THAYER

ARCHITECTS ENGINEERS



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

MIDDLE SUSITNA RIVER

PLATE 3 OF 18 RIVER MILE 142 TO 144

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA

HAZEL-DEWEY



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

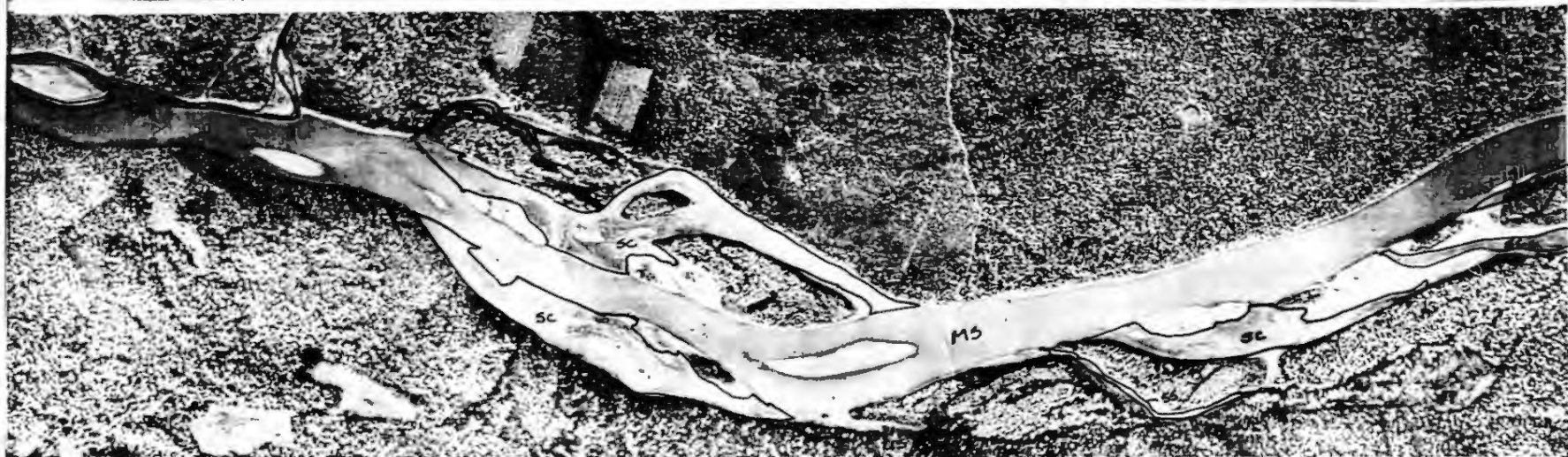
PLATE 2 OF 18 RIVER MILE 142 TO 144

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

HAZEL-BENNETT

ENGINEERS ARCHITECTS



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

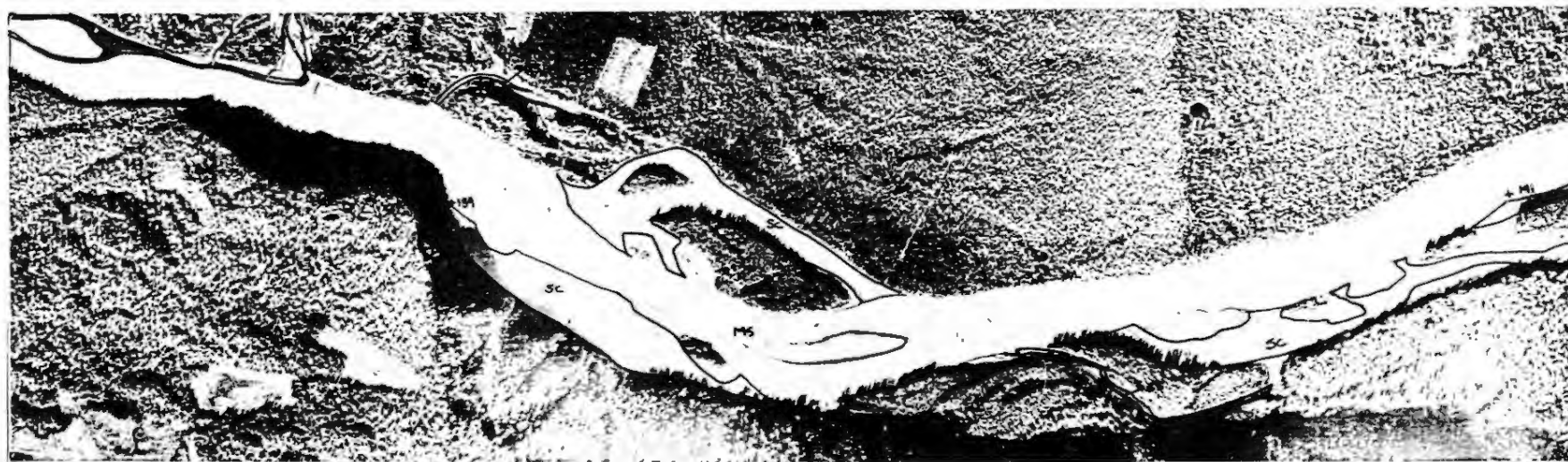
PLATE 4 OF 18 RIVER MILE 139 TO 141

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWT&A

HAZARD ENGINEERS

SUSITNA JOINT VENTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 4 OF 18 RIVER MILE 139 TO 141

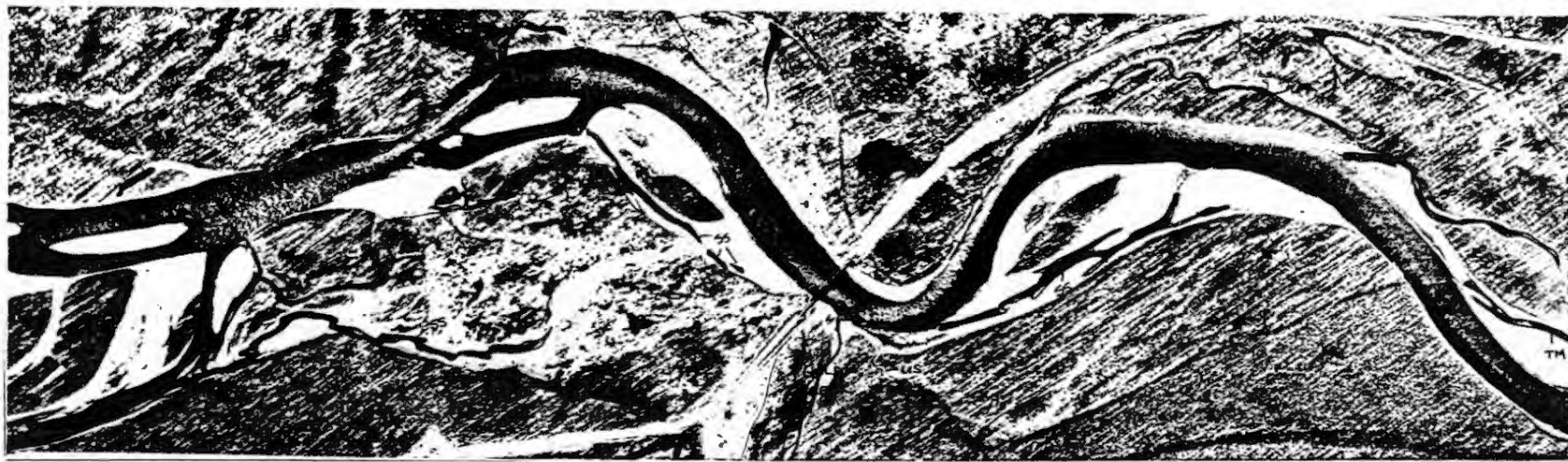
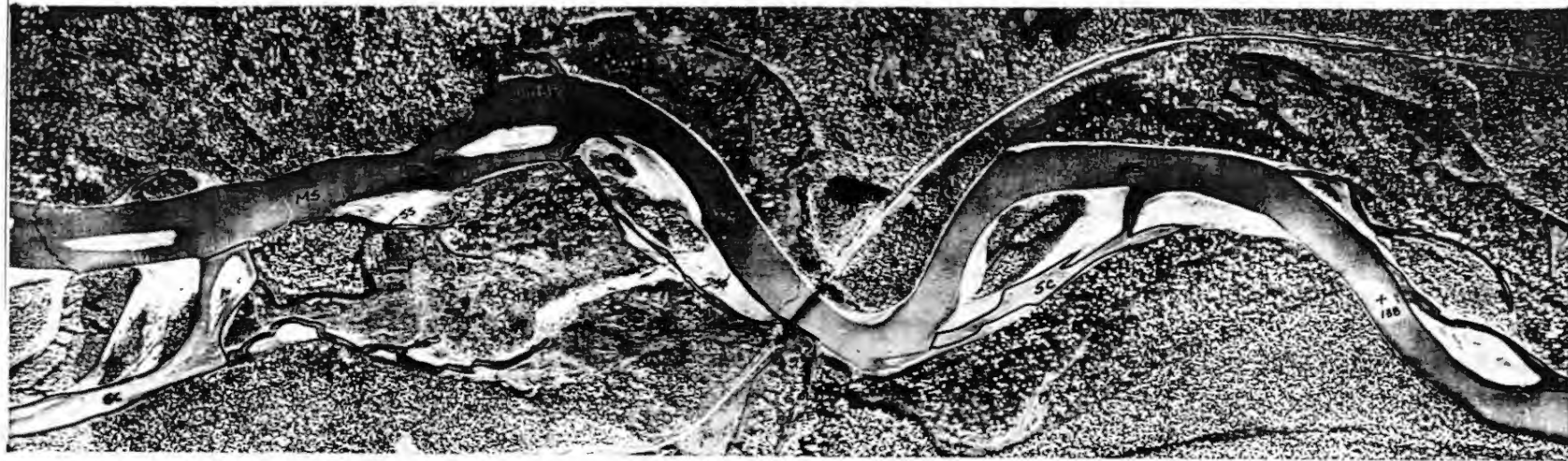
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

A. WATKINS ENGINEERS & ARCHITECTS

MAPLE-CROFT

SUSITNA RIVER PROJECT



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 5 OF 18 RIVER MILE 136 TO 138

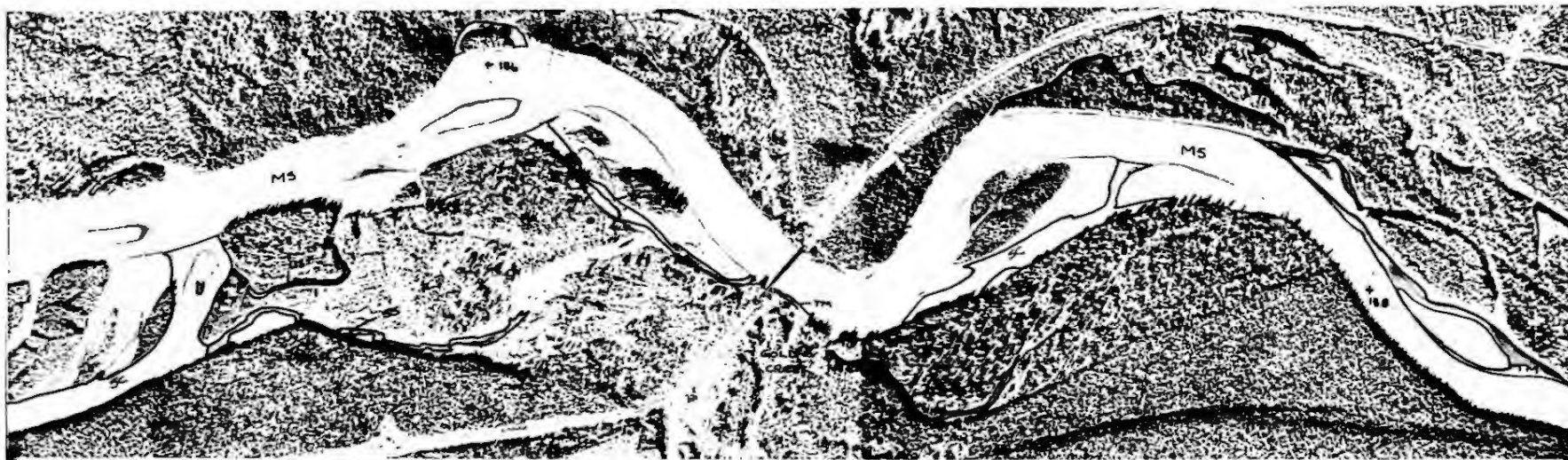
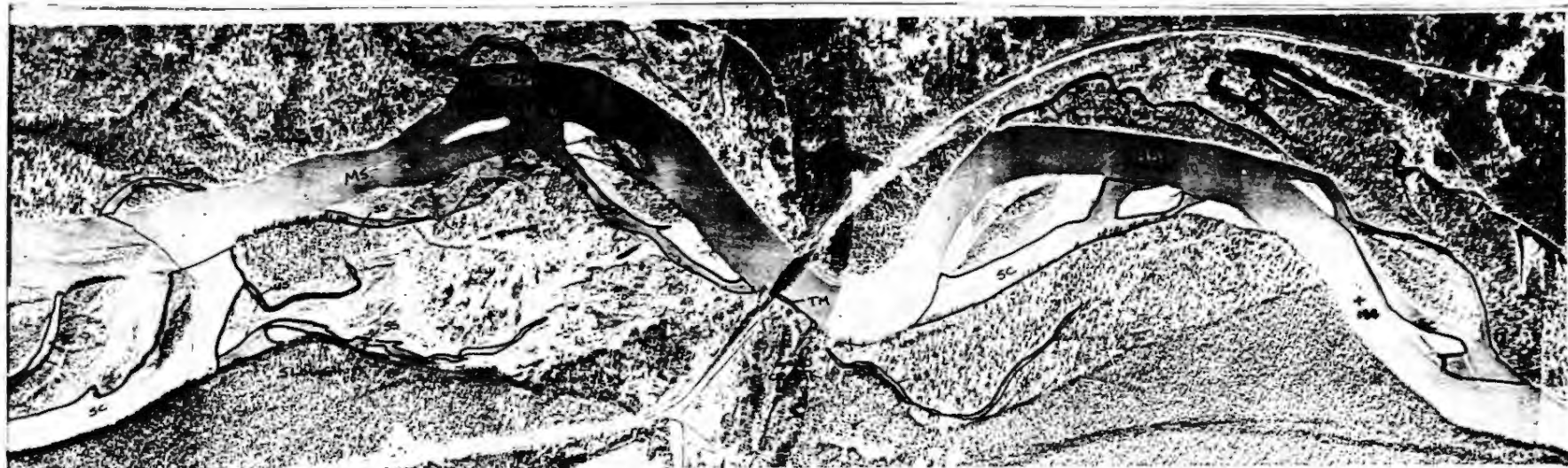
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA

ENGINEERING ARCHITECTURE SURVEYING

HAZEL-TRANS

ENGINEERING ARCHITECTURE SURVEYING



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

MIDDLE SUSITNA RIVER

PLATE 5 OF 18 RIVER MILE 36 TO 38

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

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BARZA-230000

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LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

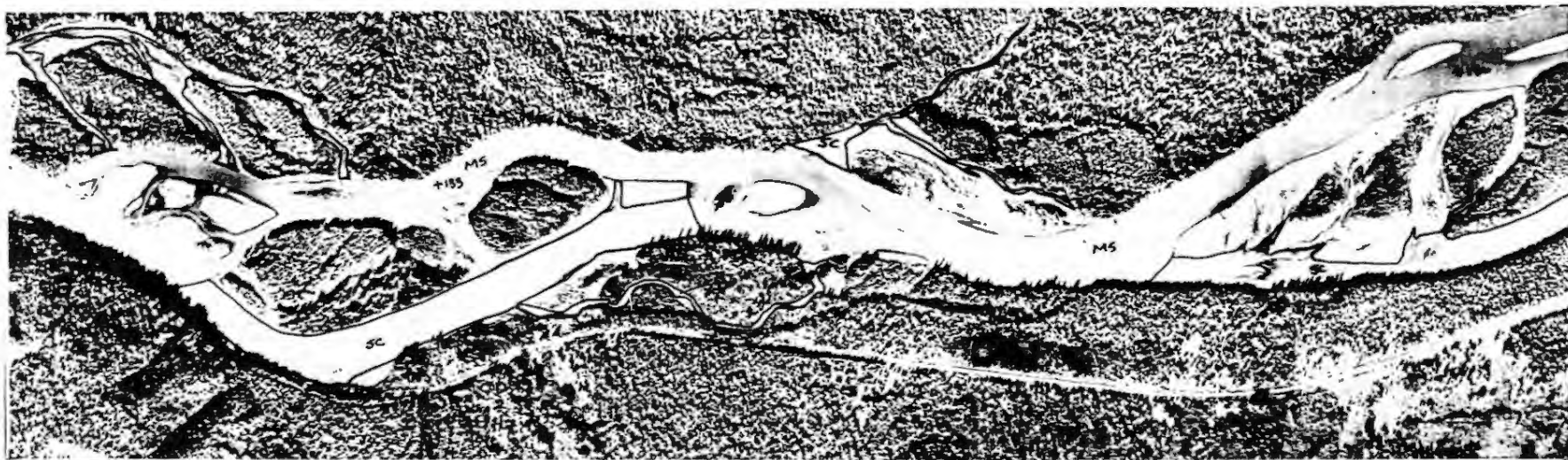
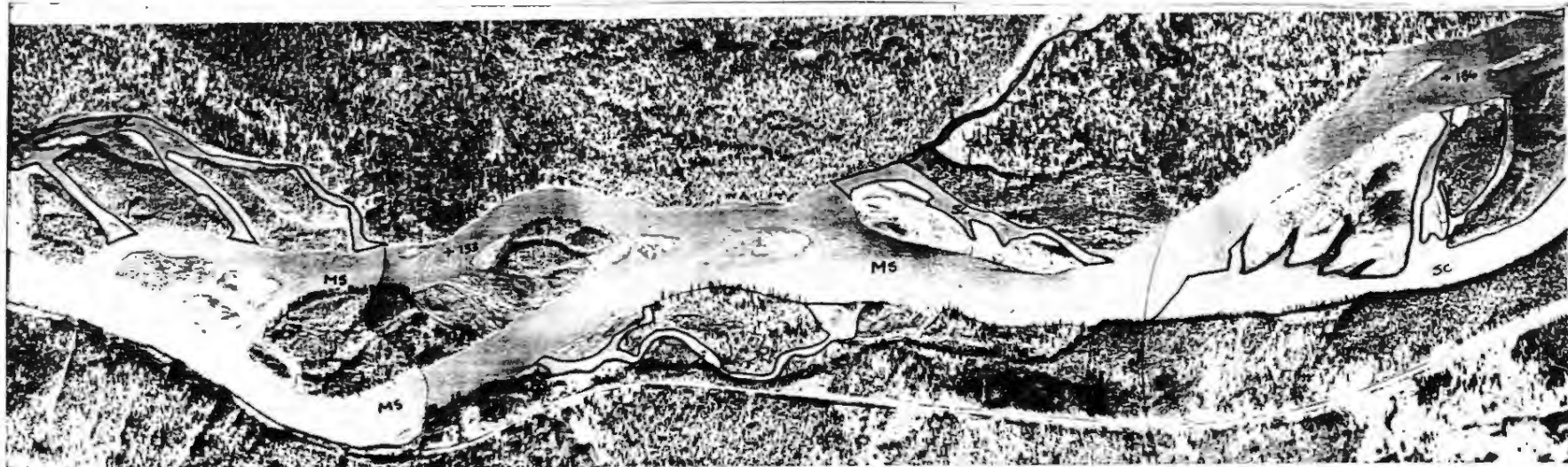
MIDDLE SUSITNA RIVER

PLATE 6 OF 18 RIVER MILE 133 TO 136

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWI&A

MARIA-EMERSON



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

MIDDLE SUSITNA RIVER

PLATE 6 OF 18 RIVER MILE 133 TO 136

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWI&A

ENGINEERING CONSULTANTS

HAZEL-GRAHAM

ARCHITECTS



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 7 OF 18 RIVER MILE 130 TO 132

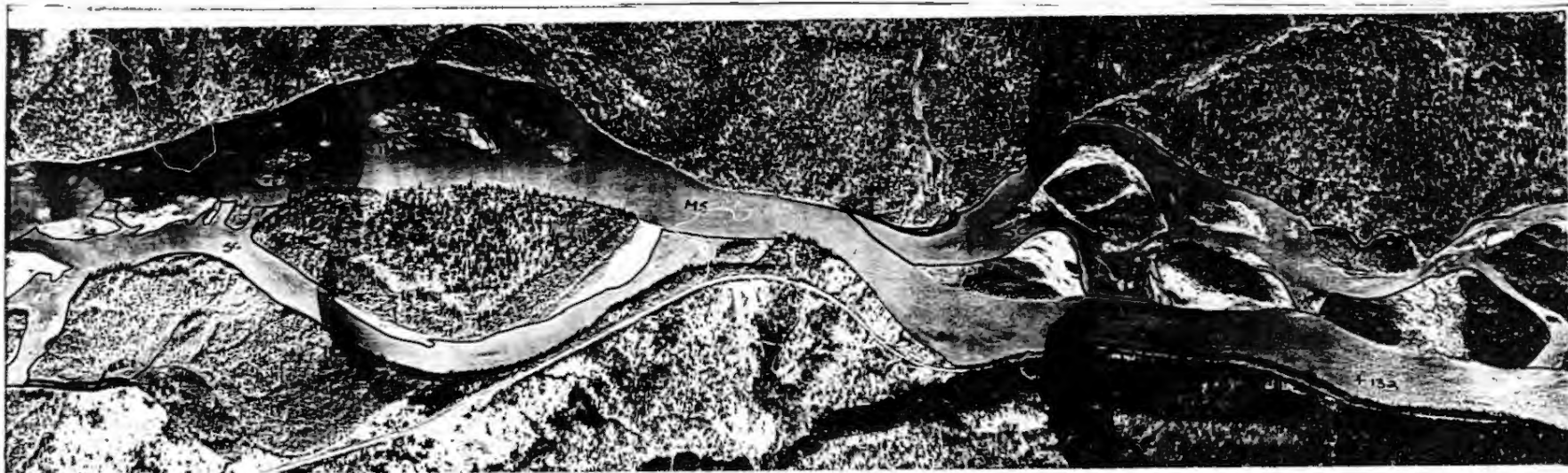
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA

MARZ-REAG

ENGINEERING CONSULTANTS

ALASKA POWER AUTHORITY



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 4 OF 18 RIVER MILE 130 TO 132

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA

ENGINEERING & ARCHITECTURE

HAZARD

ENGINEERING & ARCHITECTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 8 OF 18 RIVER MILE 127 TO 129

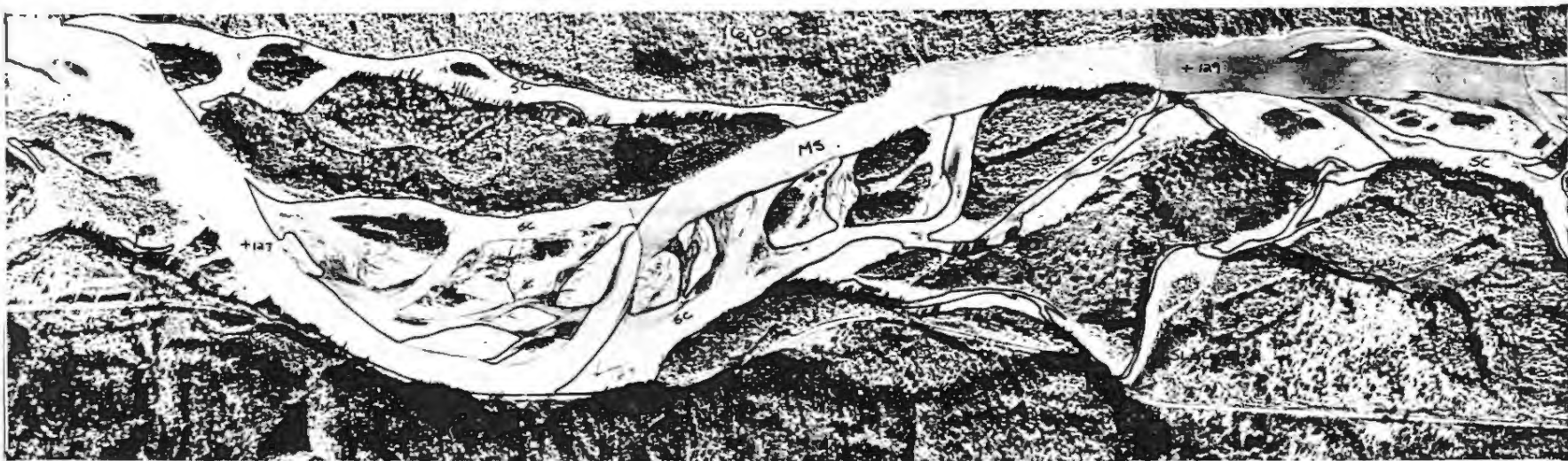
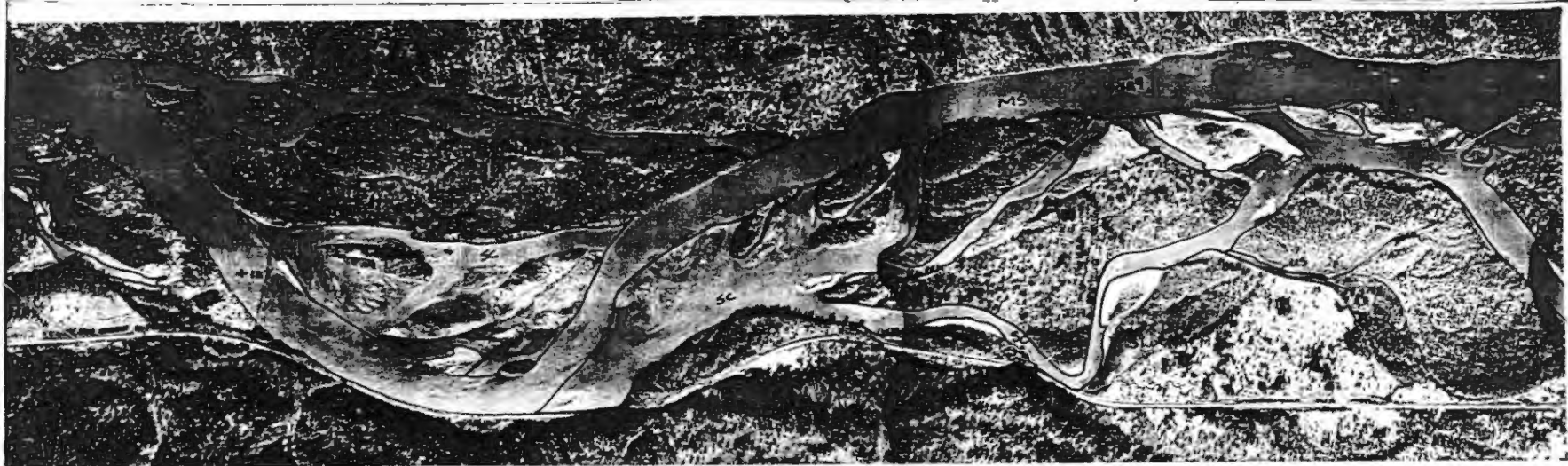
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

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ENGINEERS ARCHITECTS

HAZEL-DEBET

SUSITNA JOINT VENTURE



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

MIDDLE SUSITNA RIVER

PLATE 8 OF 18 RIVER MILE 127 TO 129

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

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1. WENTWORTH, 2. HILL, 3. K. ANNUNZIO, 4. J. L. J.

MARLA-EBERCO

100 THE GREAT RIVER



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 9 OF 18 RIVER MILE 124 TO 126

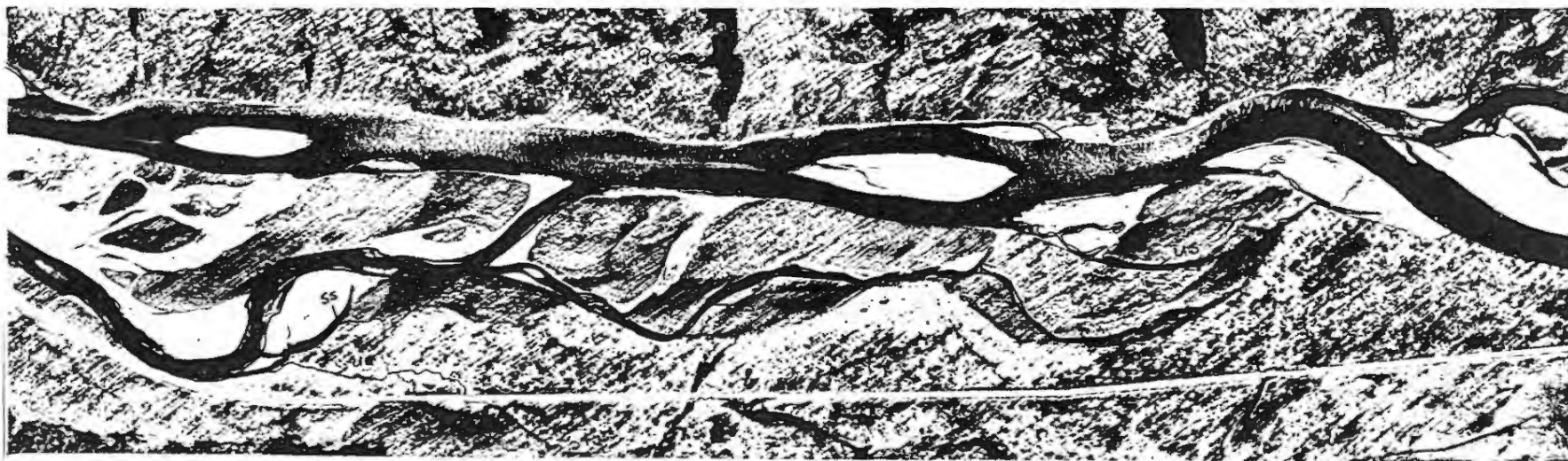
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

ENGINEERING, ARCHITECTURE, AND ENVIRONMENTAL SCIENCE

MARKA-EDWARDS

SUSITNA JOINT VENTURE



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

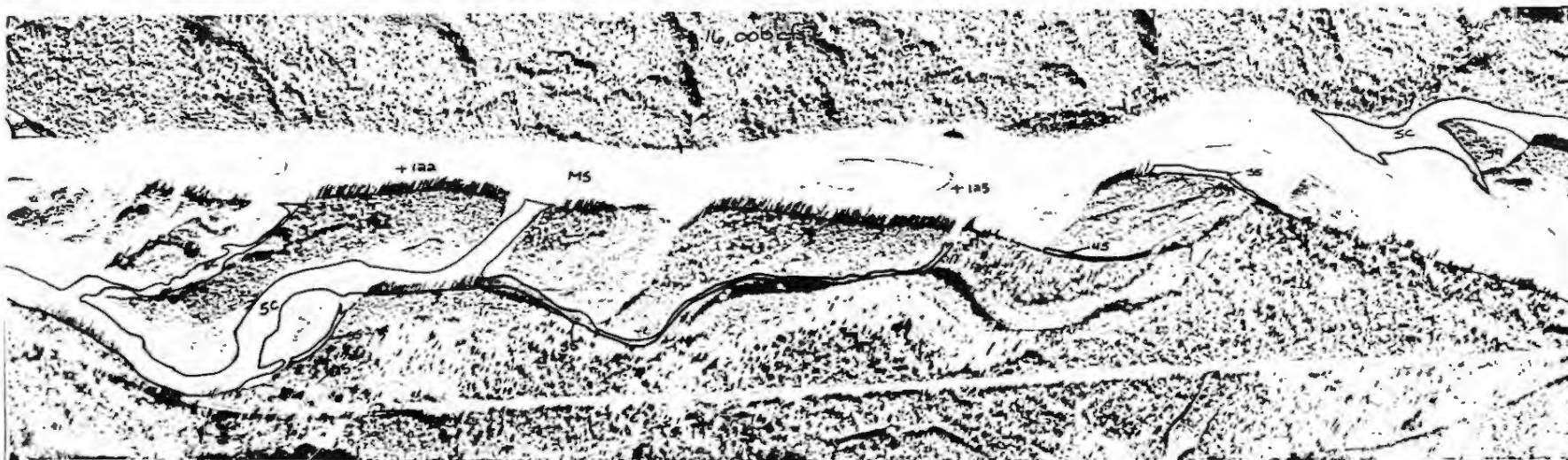
MIDDLE SUSITNA RIVER

PLATE 10 OF 18 RIVER MILE 122 TO 124

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SUSITNA HYDROELECTRIC PROJECT

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BARZA-EMMETT
SUSITNA HYDROELECTRIC PROJECT



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 10 OF 18 RIVER MILE 122 TO 124

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

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ENGINEERING & ARCHITECTURE

HARZA-EDWARDS

CONSULTING ENGINEERS



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

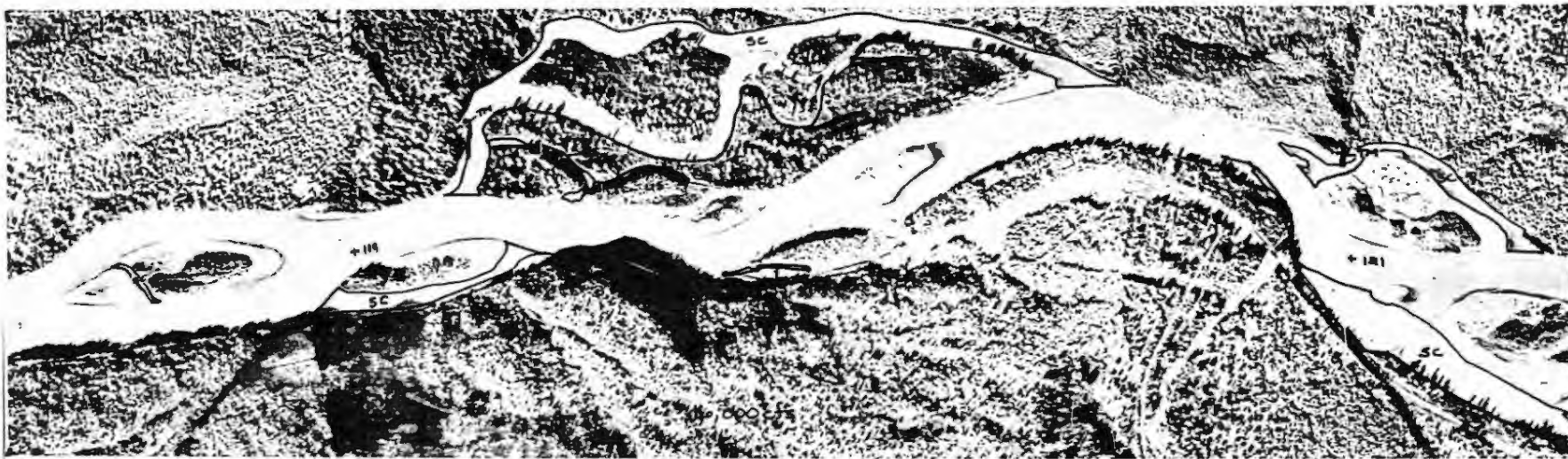
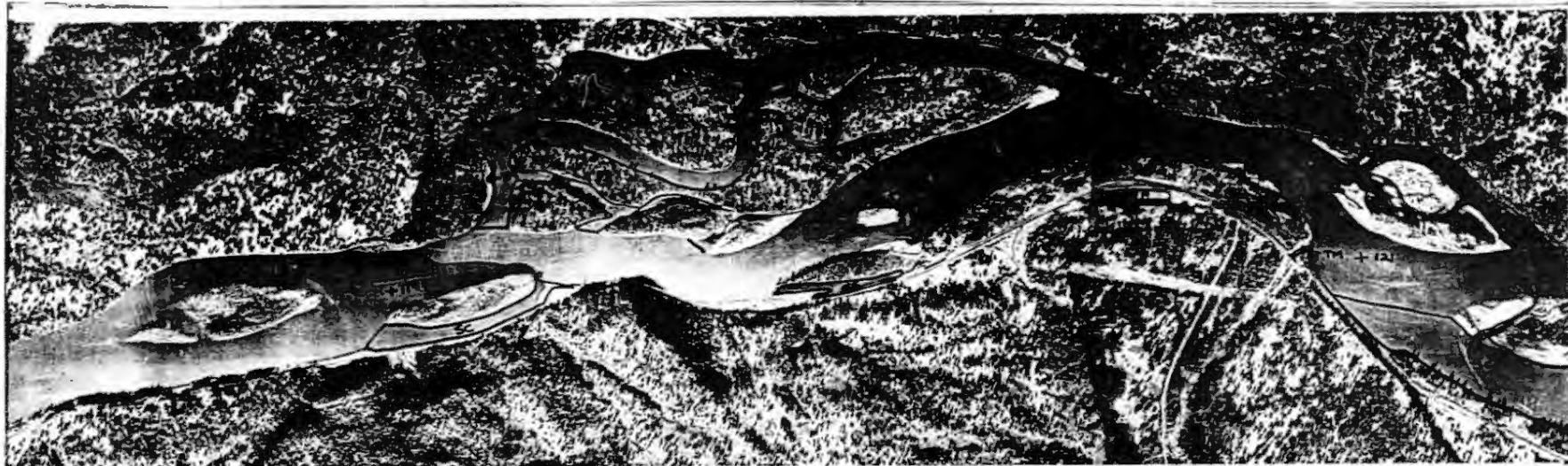
MIDDLE SUSITNA RIVER

PLATE 11 OF 18 RIVER MILE 119 TO 121

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

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MAPS & ENGINEERING



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 11 OF 18 RIVER MILE 19 TO 21

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

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ENGINEERING, ARCHITECTURE, AND CONSTRUCTION

MARIA-EMERSON

ENGINEERING, ARCHITECTURE, AND CONSTRUCTION



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

MIDDLE SUSITNA RIVER

PLATE 12 OF 18 RIVER MILE 116 TO 118

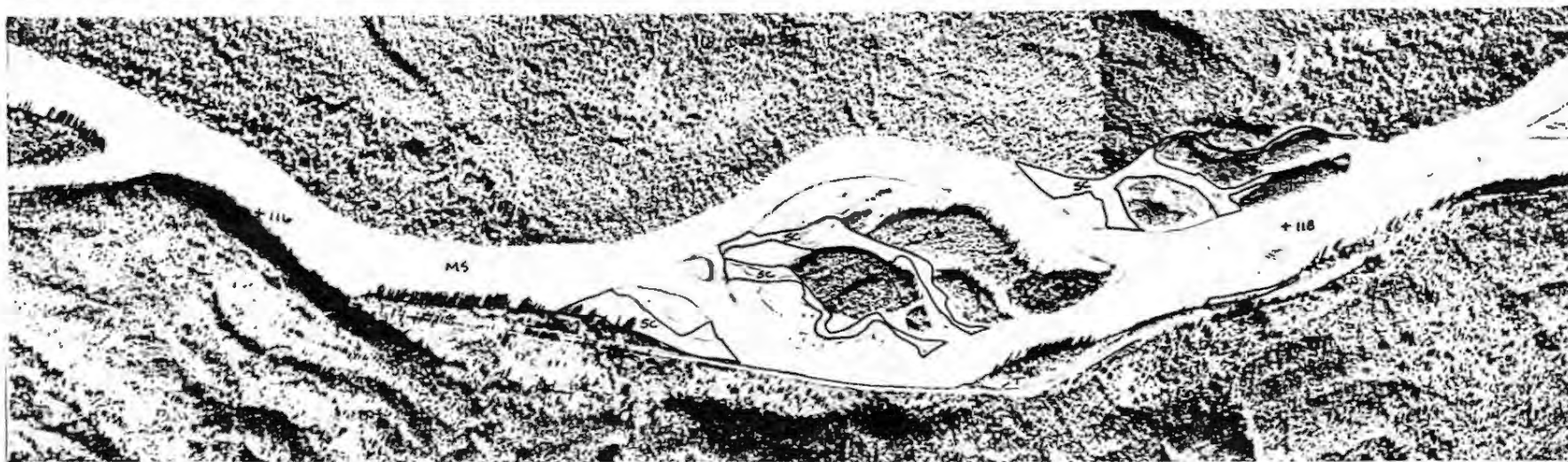
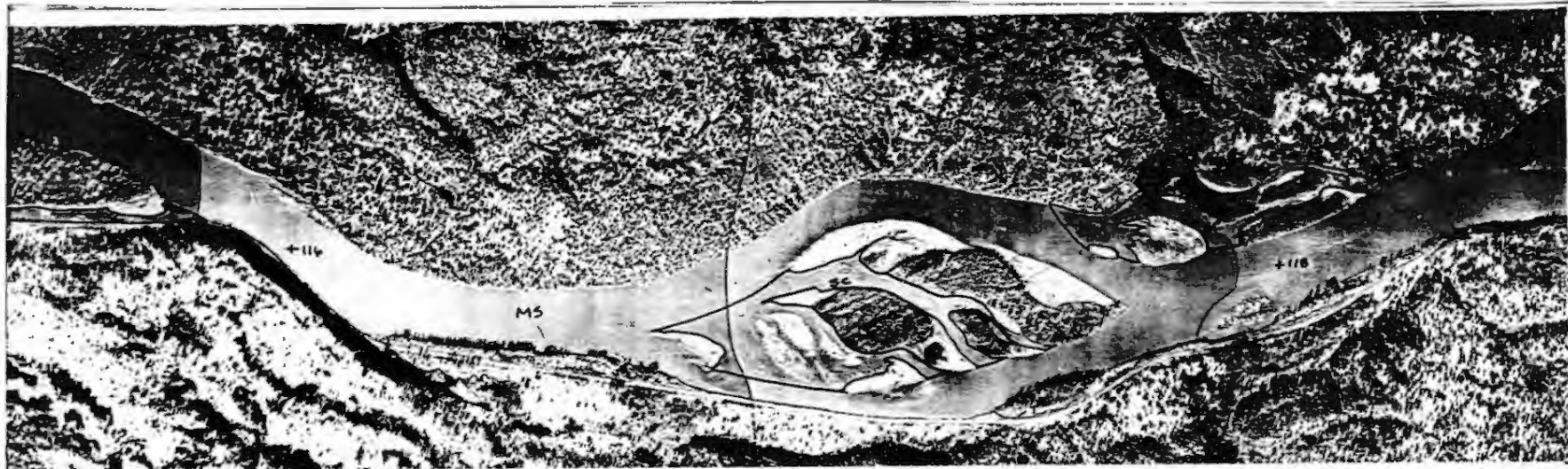
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

A MEMBER FIRM OF E&A GROUP

BARZA-ERARD

CONSULTING ENGINEERS



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 12 OF 18 RIVER MILE 116 TO 118

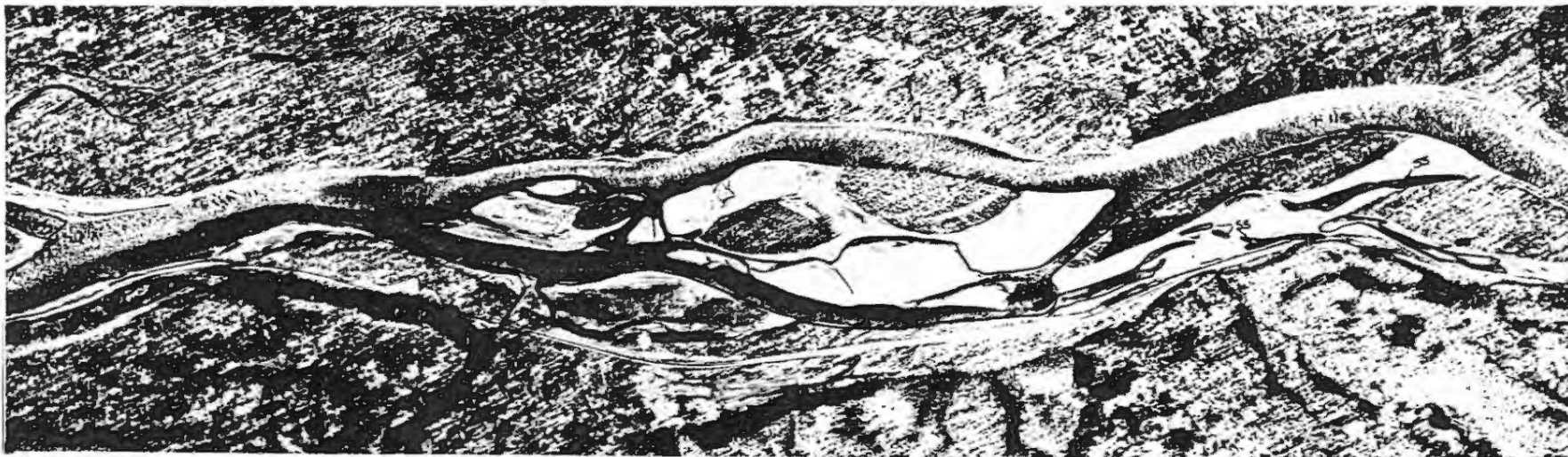
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA

ENGINEERS ARCHITECTS

HAZARD

ADVISORY BOARD



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

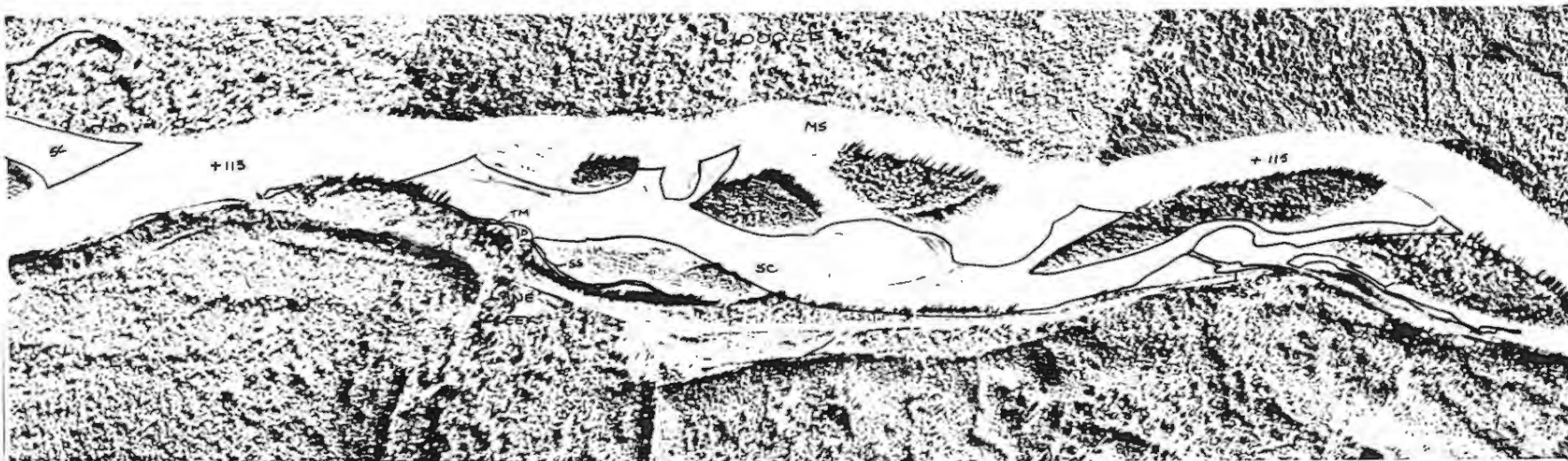
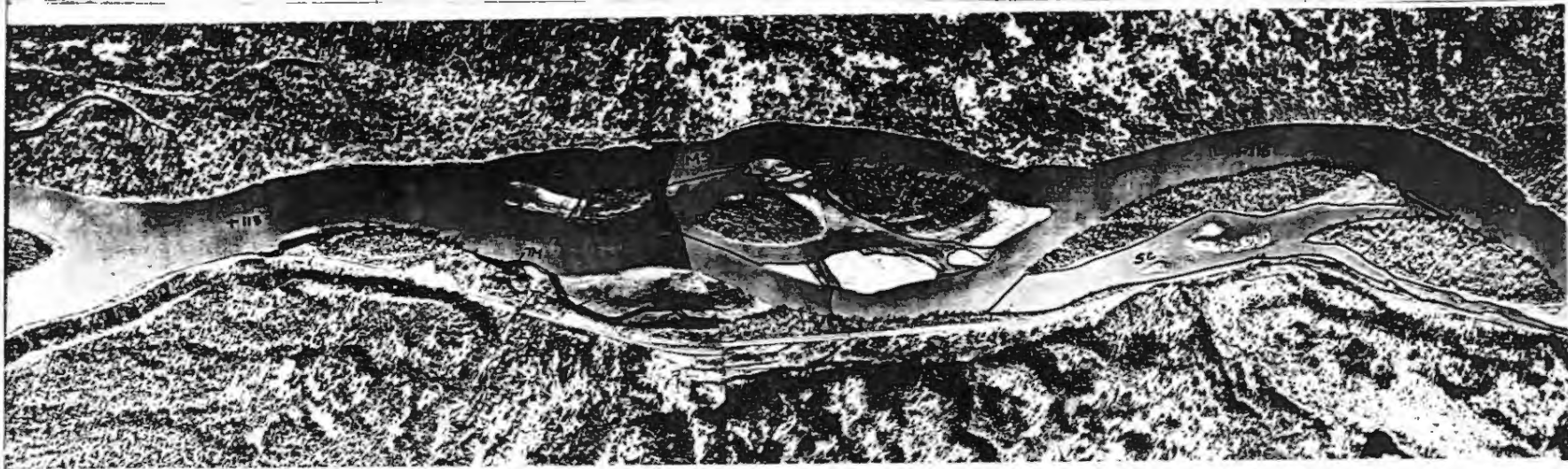
PLATE 13 OF 18 RIVER MILE 113 TO 115

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA

MARZA-ENGSTEDT

JUSTICE 2011-2012



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

MIDDLE SUSITNA RIVER

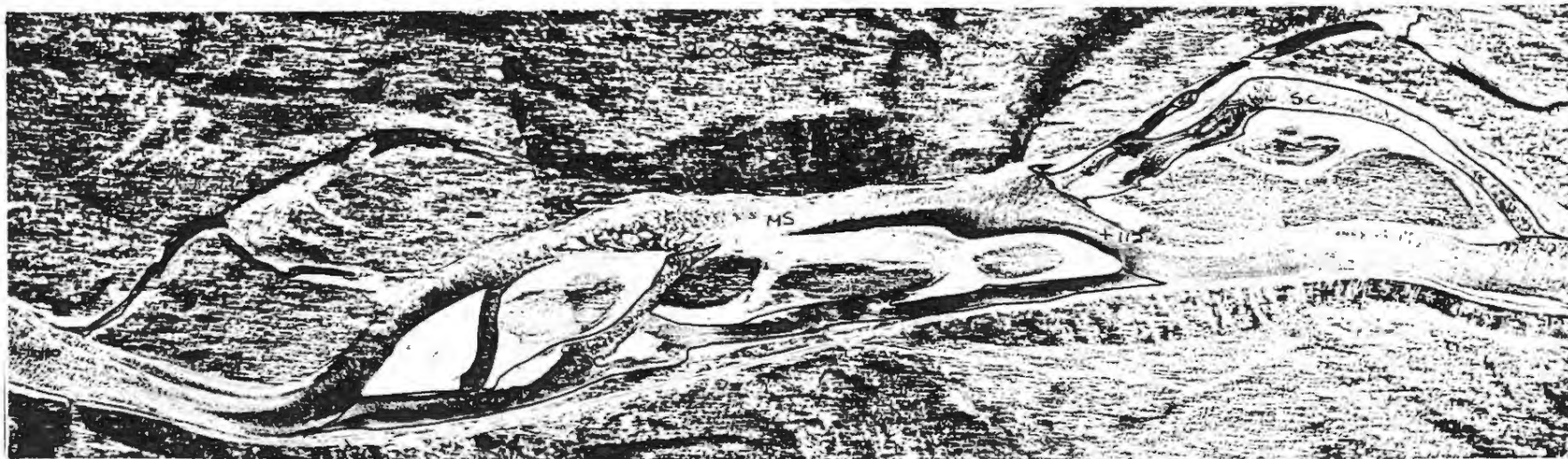
PLATE 13 OF 18 RIVER MILE 113 TO 115

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

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BARZA-EBASCO

SUSITNA RIVER PROJECT



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 14 OF 18 RIVER MILE 112 TO 117

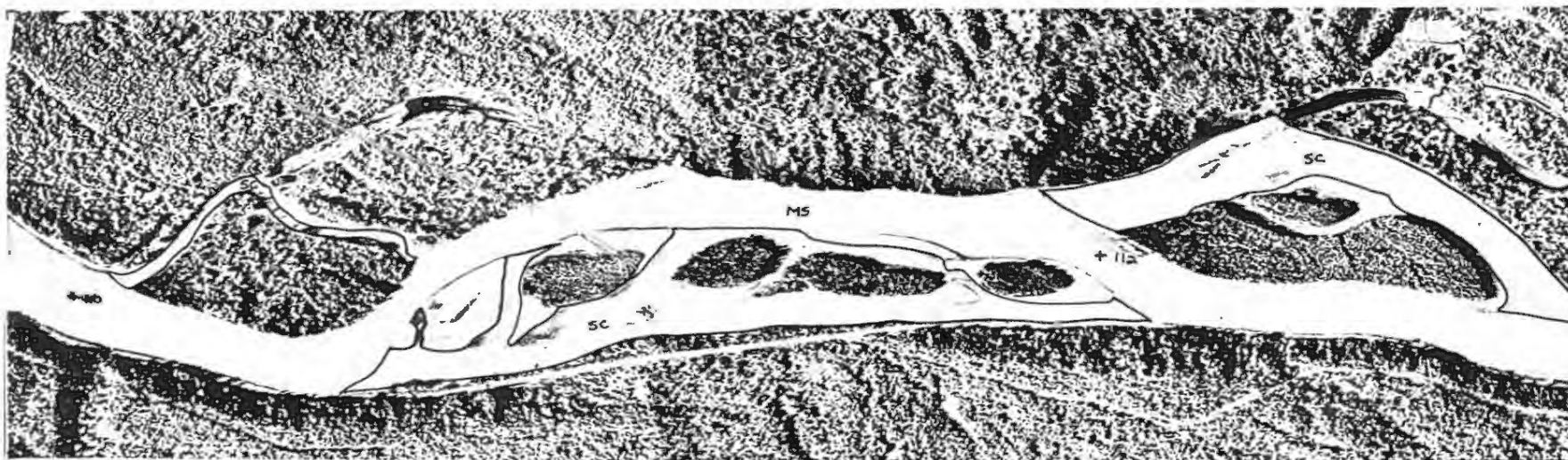
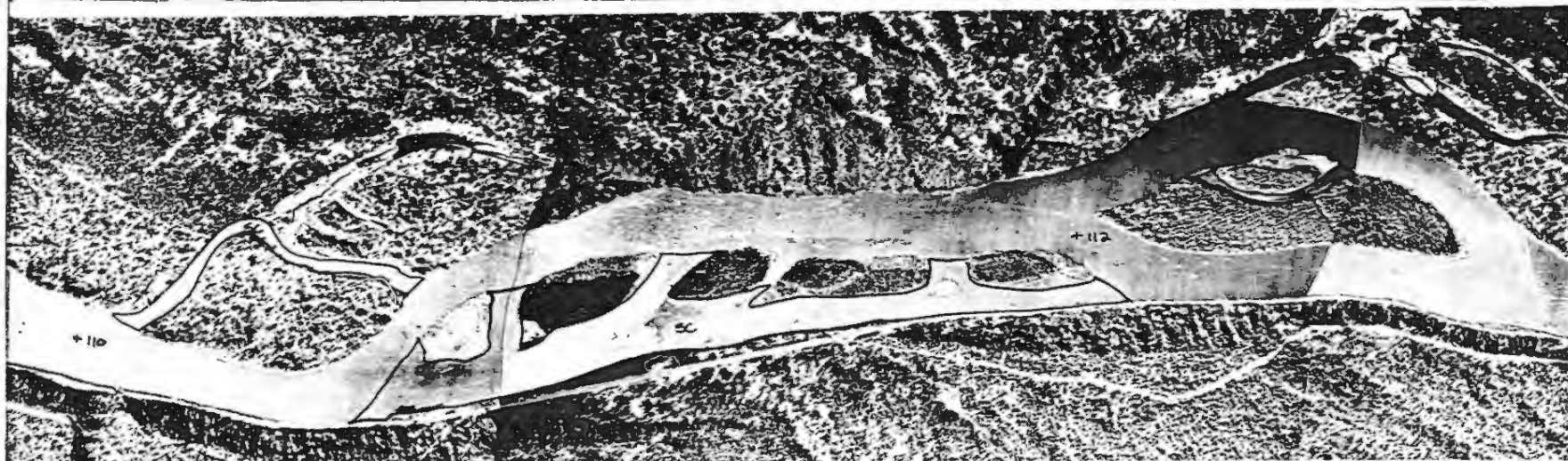
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EW&A

ENGINEERING, ARCHITECTURE, AND LANDSCAPE ARCHITECTURE

MAZDA-SENTO

ENGINEERING, ARCHITECTURE, AND LANDSCAPE ARCHITECTURE



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

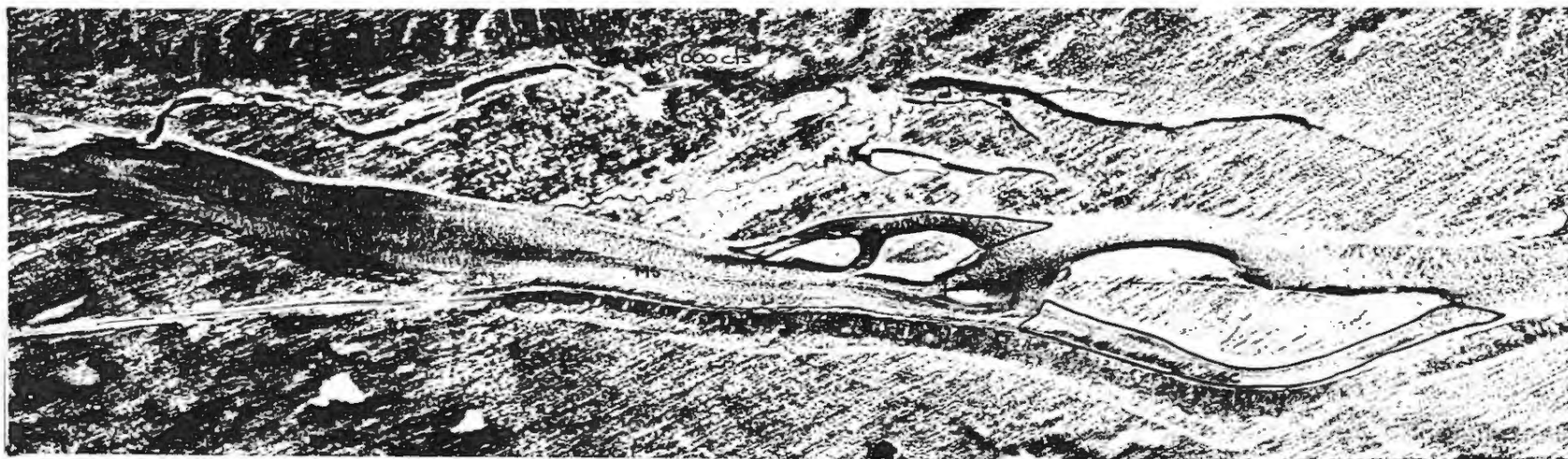
MIDDLE SUSITNA RIVER

PLATE 14 OF 18 RIVER MILE 110 TO 112

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA

MAZDA ENGINEERING



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDL SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

MIDDLE SUSITNA RIVER

PLATE 15 OF 18 RIVER MILE 108 TO 110

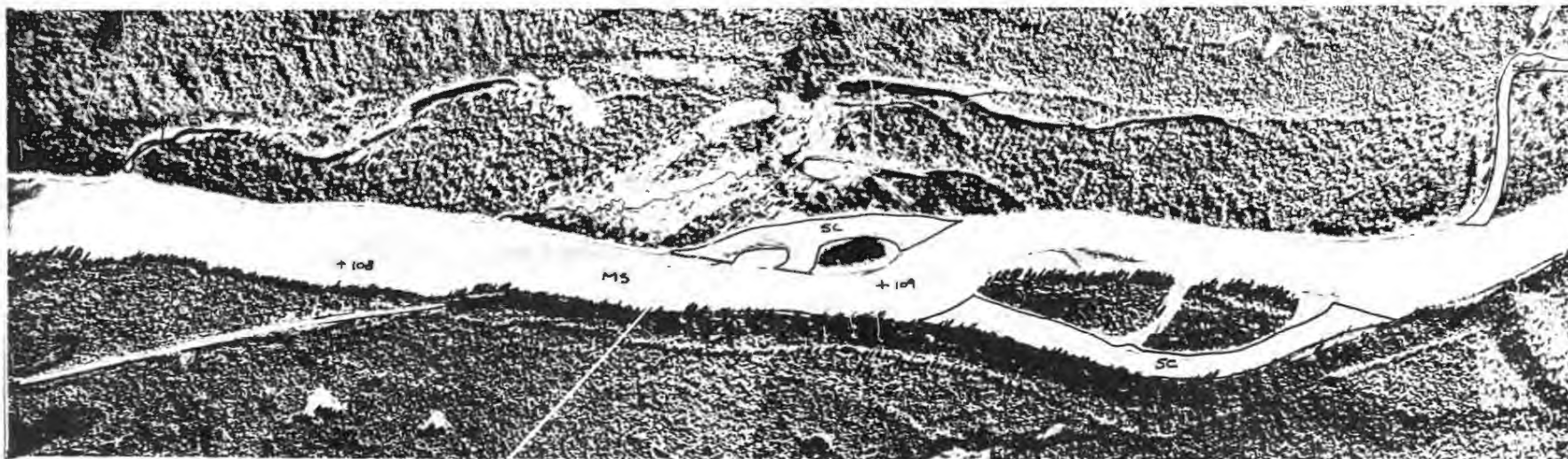
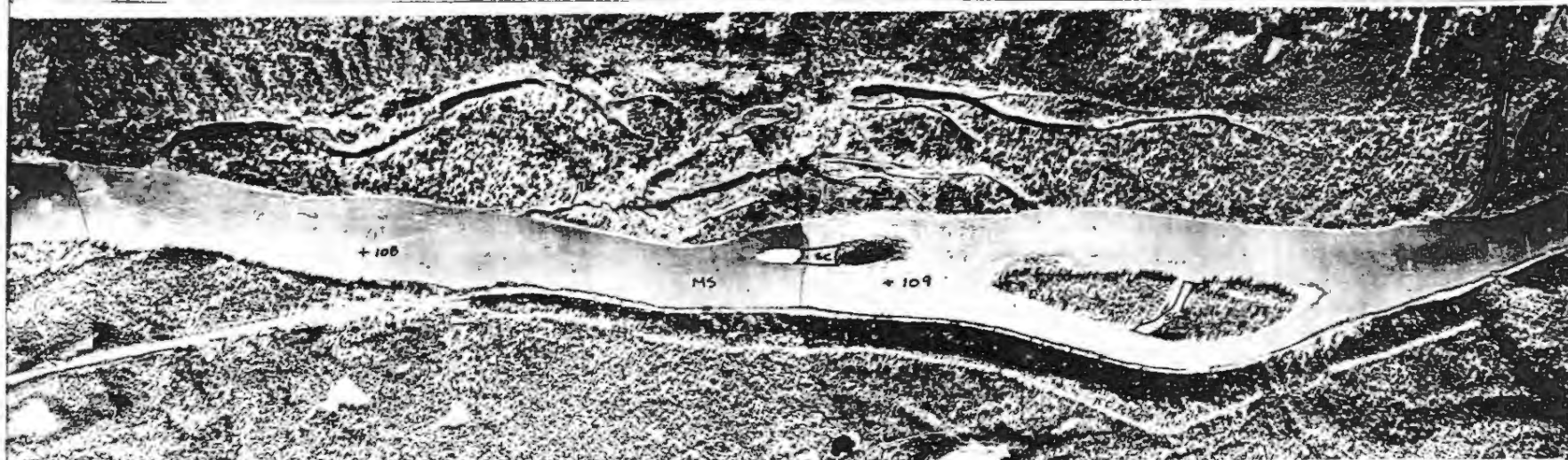
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWI&A

ENGINEERING ARCHITECTURE

BARIA-ENRSTO

ENGINEERING ARCHITECTURE



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

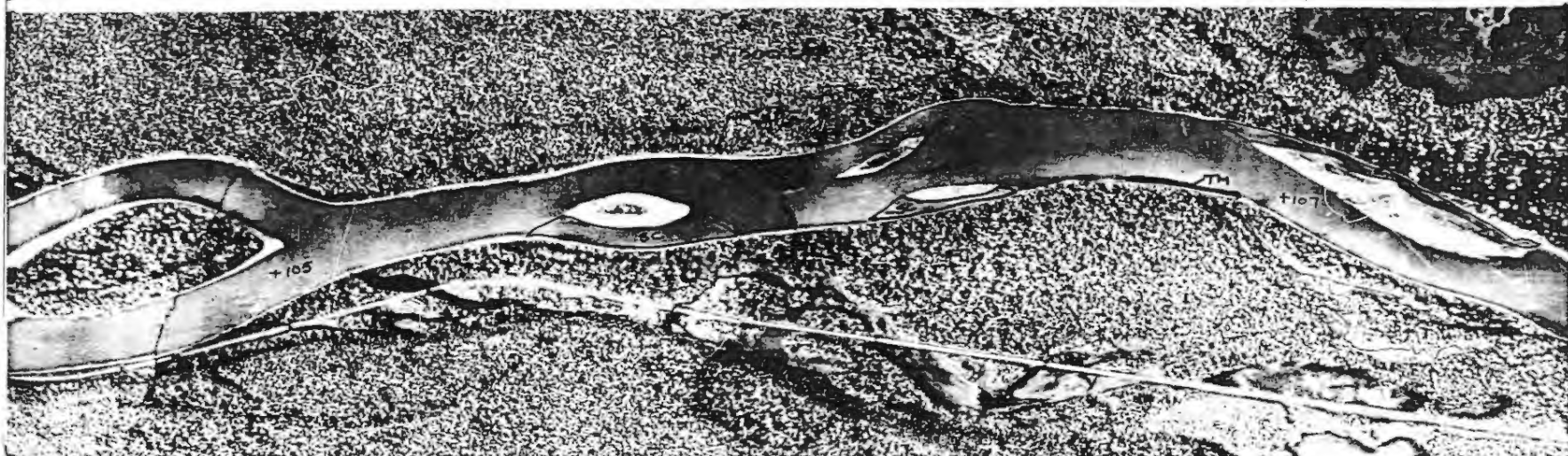
MIDDLE SUSITNA RIVER

PLATE 15 OF 18 RIVER MILE 108 TO 110

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA

BARZA-TRACCO



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

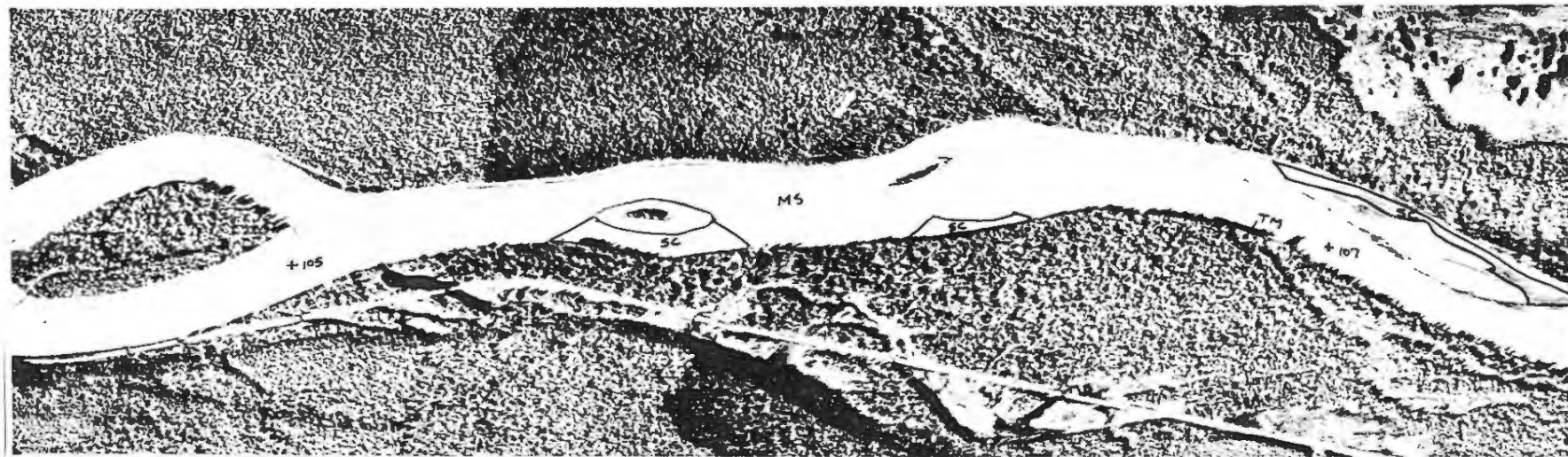
PLATE 16 OF 18 RIVER MILE 105 TO 107

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWI&A

WATKINS

SUSITNA RIVER PROJECT



LEGEND

MS MAINSTEM	TM TRIBUTARY MOUTH
SC SIDE CHANNEL	T TRIBUTARY
SS SIDE SLOUGH	+ RIVER MILE
US UPLAND SLOUGH	

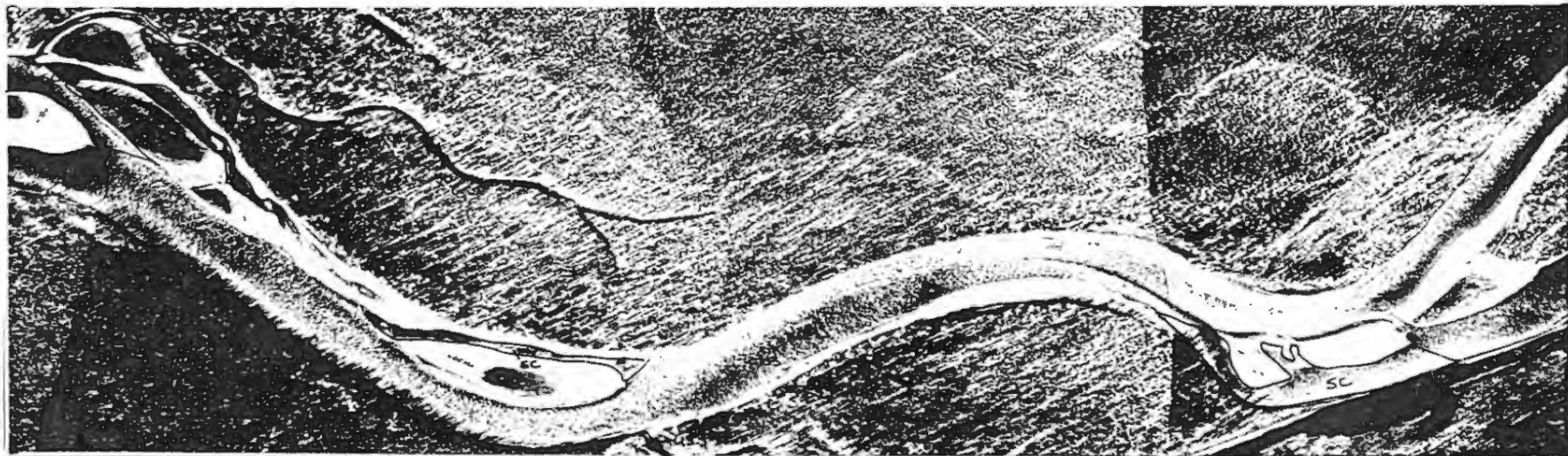
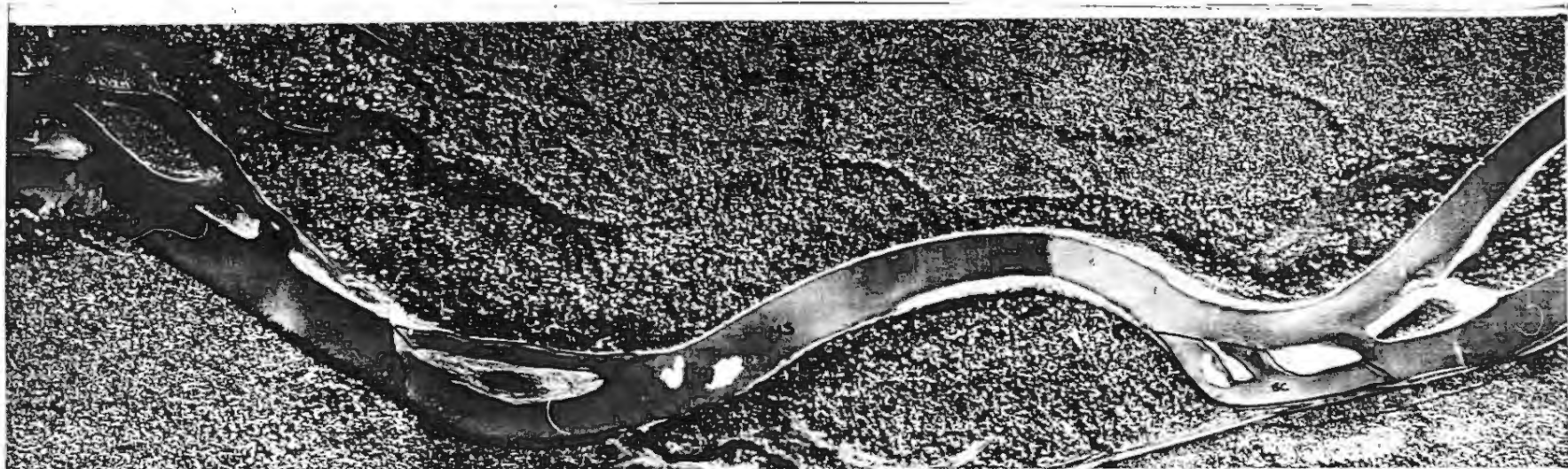
MIDDLE SUSITNA RIVER

PLATE 16 OF 18 RIVER MILE 105 TO 107

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWI&A

HAZARD ENGINEERS



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 17 OF 18 RIVER MILE 102 TO 104

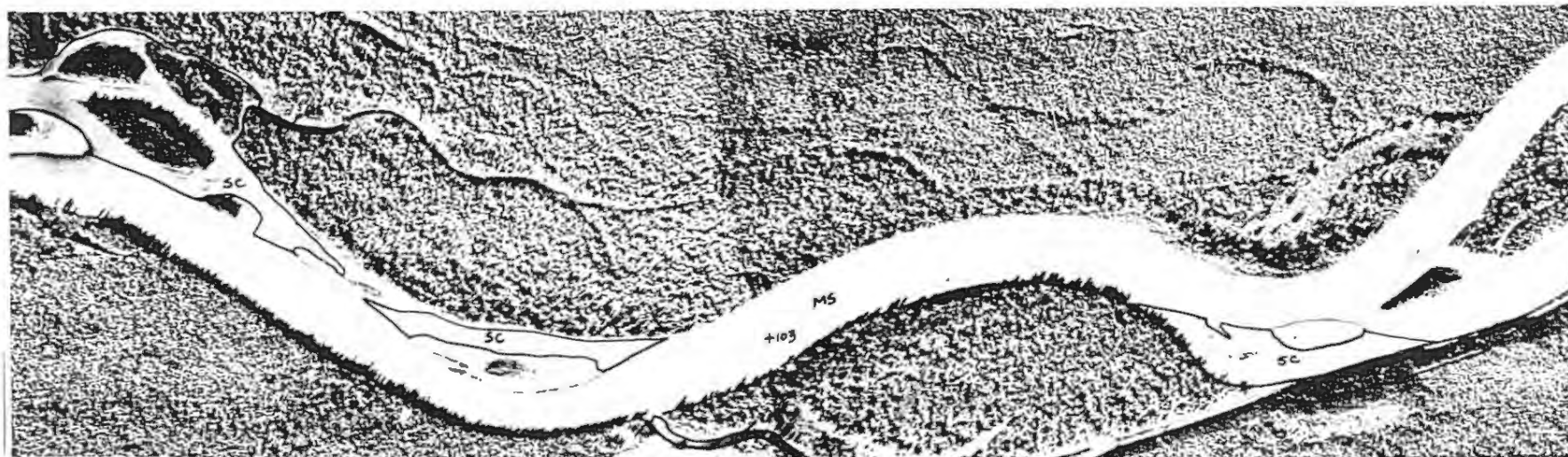
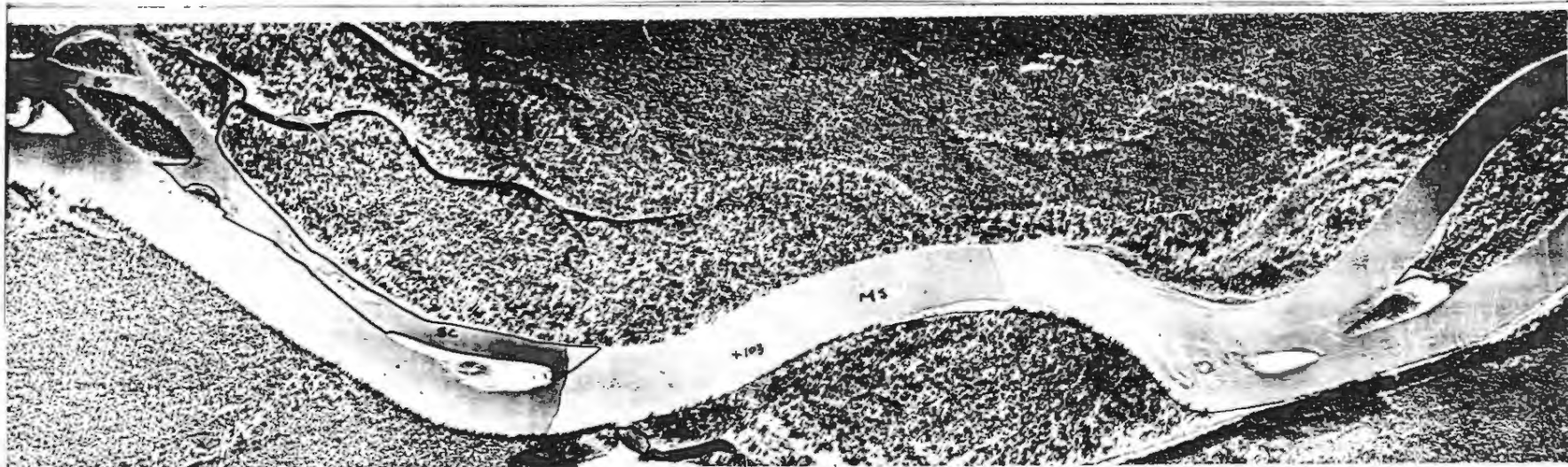
ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWTA

ENGINEERING & ARCHITECTURE

HAZEL-ELSON

SUSITNA RIVER PROJECT



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

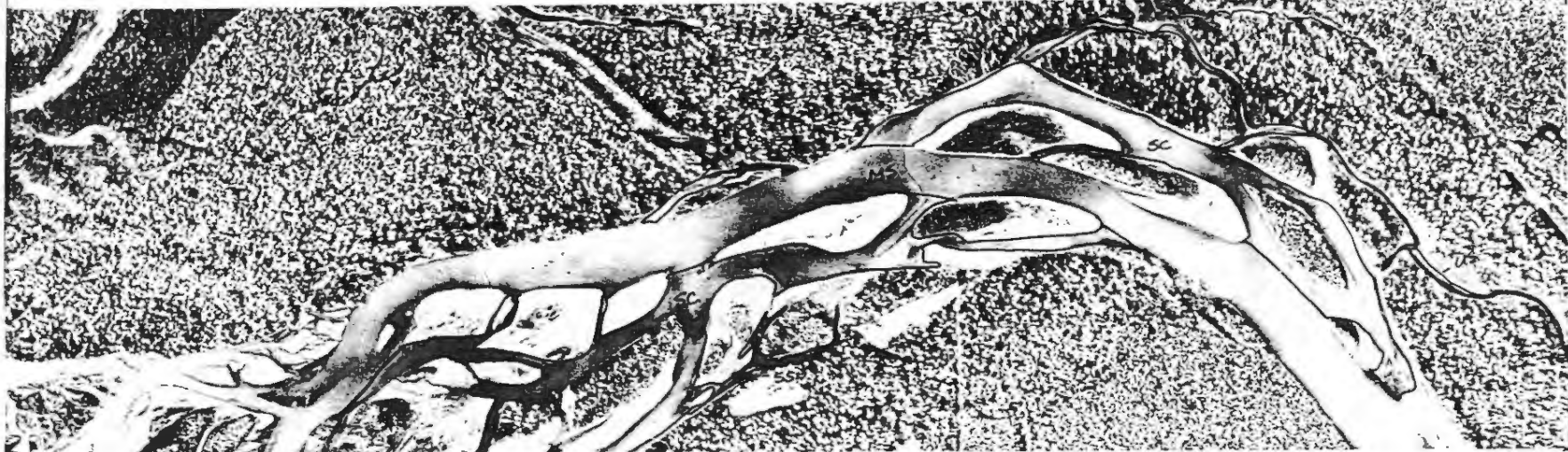
MIDDLE SUSITNA RIVER

PLATE 17 OF 18 RIVER MILE 102 TO 104

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

EWI&A

MANA-BASCO



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

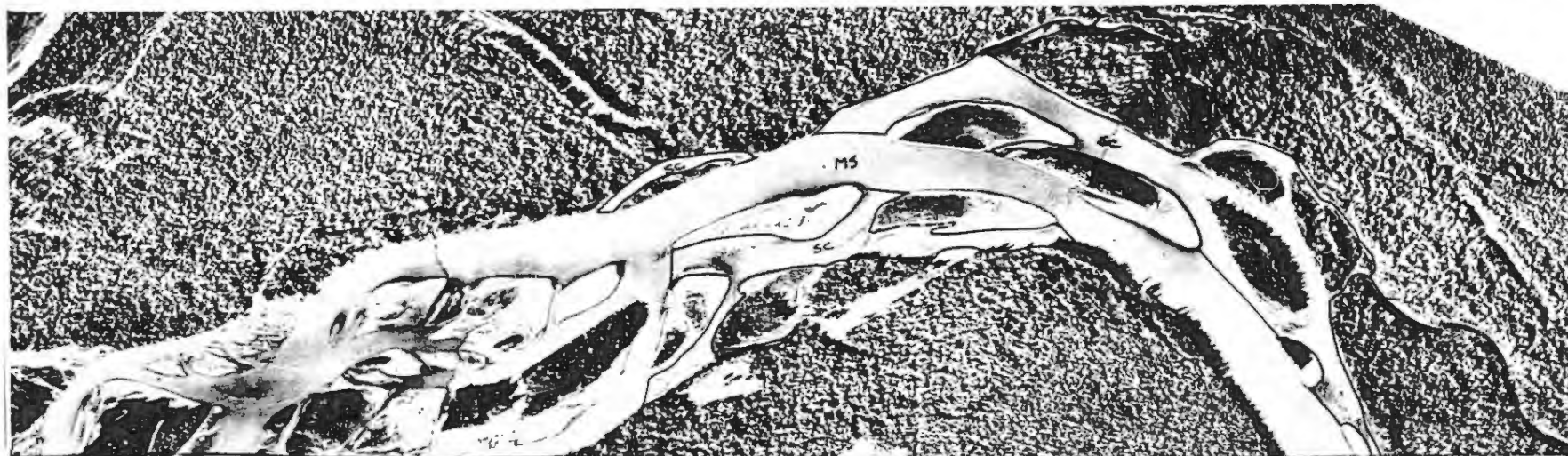
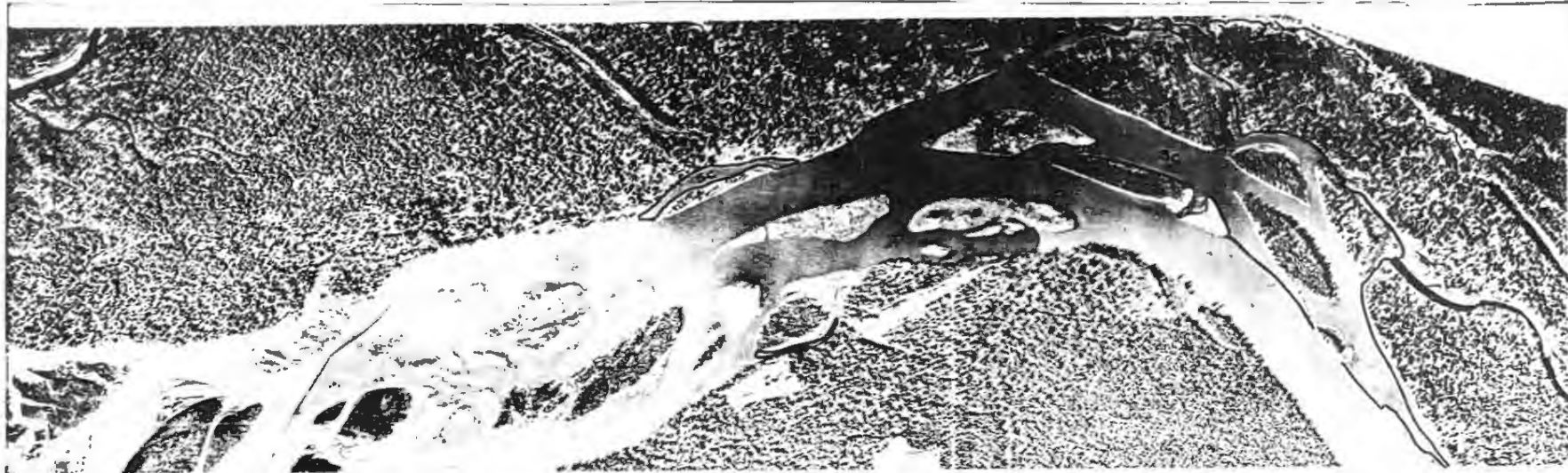
MIDDLE SUSITNA RIVER

PLATE 18 OF 18 RIVER MILE 101 TO 102

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

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ANALYSIS
SUSITNA RIVER
101 TO 102



LEGEND

MS	MAINSTEM	TM	TRIBUTARY MOUTH
SC	SIDE CHANNEL	T	TRIBUTARY
SS	SIDE SLOUGH	+	RIVER MILE
US	UPLAND SLOUGH		

MIDDLE SUSITNA RIVER

PLATE 18 OF 18 RIVER MILE 101 TO 102

ALASKA POWER AUTHORITY
SUSITNA HYDROELECTRIC PROJECT

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ENGINEERING, WRITING & ARCHITECTURE

HAZEL-JACOB
ENGINEERING & ARCHITECTURE

1
1
1
1

APPENDIX J

INDIVIDUAL DIGITIZED AREAS BY PLATE

		FLOW 1		
2	1	1 7 32 003.3460	16	
2	1	1 7 33 000.2253	16	
2	1	1 5 34 000.2237	16	
3	1	0 0 0 020.9436	1	
3	1	0 7 1 000.0980	1	
3	1	0 1 2 004.3220	1	
3	1	0 7 3 000.3485	1	
3	1	0 7 4 000.0884	1	
3	1	0 7 5 000.0533	1	
3	1	0 7 6 000.0140	1	
3	1	0 7 7 000.1647	1	
3	1	0 2 8 000.8227	1	
3	1	0 0 9 000.0388	1	
3	1	0 7 10 001.3356	1	
3	1	0 3 11 000.1332	1	
3	1	0 9 12 001.8580	1	
3	1	0 7 13 000.0448	1	
3	1	0 7 14 000.1569	1	
3	1	0 2 15 000.4028	1	
3	1	0 8 16 000.4121	1	
3	1	0 3 17 000.0303	1	
3	1	0 7 18 000.6091	1	
3	1	0 3 19 000.0190	1	
3	1	0 3 20 000.0141	1	
3	1	0 7 21 000.0961	1	
3	1	0 7 22 000.1166	1	
3	1	0 2 23 000.3511	1	
3	1	1 0 0 152.3323	16	
3	1	1 9 24 002.7670	16	
3	1	1 4 25 000.1018	16	
3	1	1 9 26 024.0474	16	
3	1	1 7 27 000.3146	16	
3	1	1 7 28 001.7365	16	
3	1	1 7 29 000.0460	16	
3	1	1 7 30 000.4688	16	
3	1	1 3 31 009.6050	16	
3	1	1 7 32 000.0048	16	
3	1	1 3 33 000.1062	16	
3	1	1 7 34 010.3674	16	
3	1	1 8 35 003.1658	16	
3	1	1 3 36 000.0973	16	
3	1	1 0 37 009.4234	16	
3	1	1 8 38 003.4649	16	
3	1	1 8 39 002.6643	16	
3	1	1 7 40 033.1779	16	
3	1	1 3 41 000.0382	16	
3	1	1 8 42 012.9541	16	
3	1	1 8 43 003.7479	16	
3	1	1 3 44 000.0352	16	
3	1	1 3 45 001.6719	16	
3	1	1 7 46 002.2918	16	
3	1	1 7 47 002.1834	16	
3	1	1 2 48 008.6414	16	
3	1	1 1 49 019.2774	16	
4	1	0 0 0 044.0013	1	
4	1	0 7 1 000.1340	1	
4	1	0 7 2 000.0556	1	
4	1	0 7 3 000.0151	1	
4	1	0 7 4 000.3582	1	

		FLOW 1			
Plate	Flow	Enlargement	Type	ID Total	Factor
1	1	0	0	0 009.5154	1
1	1	0	7	1 000.3861	1
1	1	0	7	2 000.0247	1
1	1	0	7	3 000.1555	1
1	1	0	7	4 000.0942	1
1	1	0	7	5 000.2461	1
1	1	0	7	6 000.0646	1
1	1	0	7	7 000.0802	1
1	1	0	7	8 001.0436	1
1	1	0	8	9 000.6030	1
1	1	0	7	10 000.0460	1
1	1	0	1	11 004.9101	1
1	1	0	1	12 000.7240	1
1	1	0	1	13 000.0106	1
1	1	1	0	0 019.3118	16
1	1	1	7	14 000.8039	16
1	1	1	7	15 001.1040	16
1	1	1	7	16 000.3955	16
1	1	1	7	17 000.1616	16
1	1	1	7	18 000.0315	16
1	1	1	7	19 000.1821	16
1	1	1	5	20 002.2903	16
1	1	1	1	21 013.9634	16
2	1	0	0	0 016.5528	1
2	1	0	7	1 000.3222	1
2	1	0	7	2 000.0597	1
2	1	0	7	3 000.0582	1
2	1	0	7	4 000.1319	1
2	1	0	7	5 000.3004	1
2	1	0	7	6 000.0183	1
2	1	0	7	7 000.1567	1
2	1	0	7	8 000.3624	1
2	1	0	7	9 000.1011	1
2	1	0	8	10 001.8660	1
2	1	0	8	11 000.0411	1
2	1	0	7	12 000.1539	1
2	1	0	7	13 000.2053	1
2	1	0	8	14 001.2592	1
2	1	0	3	15 000.0361	1
2	1	0	3	16 000.0487	1
2	1	0	3	17 000.0266	1
2	1	0	2	18 001.5376	1
2	1	0	1	19 001.9652	1
2	1	0	7	20 000.1813	1
2	1	0	7	21 000.1006	1
2	1	0	7	22 001.3076	1
2	1	0	8	23 000.1072	1
2	1	0	8	24 001.0507	1
2	1	0	8	25 000.0435	1
2	1	0	2	26 000.2670	1
2	1	0	7	27 000.1843	1
2	1	0	7	28 000.0135	1
2	1	0	1	29 003.8881	1
2	1	0	7	30 000.0138	1
2	1	1	0	0 011.3069	16
2	1	1	1	31 007.5320	16

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4	1	2	4	66	000.4683
4	1	2	2	67	005.6519
4	1	2	7	68	000.1047
4	1	2	7	69	000.0263
4	1	2	7	70	000.2087
4	1	2	7	71	000.1276
4	1	2	7	72	000.3261
4	1	2	8	73	000.1654
4	1	3	0	0	046.3999
4	1	3	8	74	000.0893
4	1	3	3	75	000.0503
4	1	3	7	76	002.6268
4	1	3	3	77	000.2351
4	1	3	8	78	000.1304
4	1	3	7	79	000.2726
4	1	3	8	80	003.7534
4	1	3	7	81	001.0926
4	1	3	7	82	001.2220
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4	1	3	5	84	002.6189
4	1	3	5	85	000.0198
4	1	3	9	86	002.8807
4	1	3	7	87	000.4043
4	1	3	7	88	002.3435
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5	1	0	8	14	000.0976
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4	1	0	3	17	000.1061
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14	1	0	8	23	001.4896
14	1	0	7	24	000.0609
14	1	0	7	25	000.1172
14	1	0	2	26	000.1283
14	1	0	7	27	000.1566
14	1	0	9	28	000.5581

18	1	0	2	12	000.0654	1
18	1	0	2	13	000.6257	1
18	1	0	1	14	001.8388	1
18	1	0	3	15	000.0607	1
18	1	0	7	16	000.0968	1
18	1	0	8	17	000.1758	1
18	1	0	3	18	000.0228	1
18	1	0	7	19	000.0786	1
18	1	0	2	20	000.4570	1
18	1	0	7	21	000.1725	1
18	1	0	8	22	000.4767	1
18	1	0	7	23	000.1609	1
18	1	0	8	24	000.2188	1
18	1	0	7	25	000.2752	1
18	1	0	1	26	000.8023	1
18	1	0	1	27	001.6359	1
18	1	0	8	28	000.0491	1
18	1	0	2	29	000.0833	1
18	1	0	7	30	000.5579	1
18	1	0	9	31	001.1389	1
18	1	1	0	0	119.5019	16
18	1	1	7	32	002.0961	16
18	1	1	7	33	000.0851	16
18	1	1	7	34	000.9436	16
18	1	1	6	35	000.8396	16
18	1	1	3	36	001.6917	16
18	1	1	4	37	001.3553	16
18	1	1	8	38	003.8931	16
18	1	1	7	39	005.5423	16
18	1	1	8	40	006.9200	16
18	1	1	9	41	004.6062	16
18	1	1	8	42	006.3738	16
18	1	1	7	43	002.9437	16
18	1	1	8	44	002.2315	16
18	1	1	7	45	005.1092	16
18	1	1	2	46	018.7099	16
18	1	1	9	47	031.9708	16
18	1	1	7	48	000.4684	16
18	1	1	8	49	021.1489	16
18	1	1	3	66	003.1660	16
18	1	2	0	0	108.7436	16
18	1	2	7	50	000.0561	16
18	1	2	7	51	010.5841	16
18	1	2	8	52	006.0930	16
18	1	2	3	53	002.7003	16
18	1	2	7	54	012.7232	16
18	1	2	8	55	000.9964	16
18	1	2	7	56	015.3592	16
18	1	2	3	57	002.3592	16
18	1	2	7	58	000.4592	16
18	1	2	8	59	006.6274	16
18	1	2	8	60	000.6425	16
18	1	2	7	61	000.9404	16
18	1	2	7	62	000.0425	16
18	1	2	2	63	015.2130	16
18	1	2	1	64	015.1234	16
18	1	2	9	65	019.5713	16

16	1	0	7	2	000.1742	1
16	1	0	8	3	001.7896	1
16	1	0	7	4	000.0227	1
16	1	0	7	5	000.1232	1
16	1	0	7	6	000.2267	1
16	1	0	4	7	000.0691	1
16	1	0	8	8	000.0380	1
16	1	0	7	9	000.3889	1
16	1	0	2	10	000.4315	1
16	1	0	7	11	000.1076	1
16	1	0	8	12	000.0220	1
16	1	0	7	13	000.1063	1
16	1	0	1	14	006.2083	1
16	1	0	1	15	000.3602	1
16	1	0	9	16	010.5674	1
16	1	0	9	17	000.4750	1
16	1	1	0	0	130.0353	16
16	1	1	7	18	000.5069	16
16	1	1	7	19	002.1333	16
16	1	1	7	20	003.0913	16
16	1	1	2	21	001.7635	16
16	1	1	7	22	000.9174	16
16	1	1	5	23	000.1848	16
16	1	1	6	24	000.2166	16
16	1	1	9	25	035.4348	16
16	1	1	9	26	004.2579	16
16	1	1	7	27	002.4625	16
16	1	1	3	28	002.3691	16
16	1	1	7	29	015.4239	16
16	1	1	9	30	011.7093	16
16	1	1	1	31	048.8150	16
16	1	1	9	32	000.3765	16
17	1	0	0	0	011.7774	1
17	1	0	7	1	000.5795	1
17	1	0	2	2	000.2758	1
17	1	0	8	3	000.1307	1
17	1	0	7	4	000.7186	1
17	1	0	7	5	000.6562	1
17	1	0	7	6	000.6391	1
17	1	0	7	7	000.1793	1
17	1	0	7	8	000.0183	1
17	1	0	7	9	000.2791	1
17	1	0	8	10	000.1855	1
17	1	0	7	11	000.5255	1
17	1	0	8	12	000.1655	1
17	1	0	2	13	000.7591	1
17	1	0	1	14	006.6243	1
18	1	0	0	0	026.7975	1
18	1	0	7	1	000.0398	1
18	1	0	7	2	001.4474	1
18	1	0	8	3	000.3341	1
18	1	0	8	4	000.0176	1
18	1	0	7	5	000.8228	1
18	1	0	8	6	000.2202	1
18	1	0	7	7	000.0607	1
18	1	0	8	8	000.5109	1
18	1	0	7	9	000.0468	1
18	1	0	7	10	000.2350	1
18	1	0	2	11	000.0261	1

FLOW 2

2	2	2	36	003.8983	16
2	2	2	7	37 000.0338	16
2	2	2	7	38 000.1894	16
2	2	2	7	39 000.1894	16
2	2	2	8	40 000.1624	16
2	2	2	8	41 000.4848	16
2	2	2	7	42 000.0325	16
2	2	2	7	43 000.3471	16
2	2	2	3	44 002.9459	16
2	2	2	7	45 000.1784	16
2	2	2	8	46 015.3591	16
2	2	2	7	47 008.5681	16
2	2	2	8	48 001.4009	16
2	2	2	7	49 000.0608	16
2	2	2	7	50 000.4000	16
2	2	2	1	51 014.1836	16
3	2	0	0	0 019.2524	1
3	2	0	1	1 004.0532	1
3	2	0	2	2 001.1108	1
3	2	0	7	3 000.2617	1
3	2	0	7	4 000.0368	1
3	2	0	7	5 000.0209	1
3	2	0	7	6 000.0656	1
3	2	0	7	7 000.5899	1
3	2	0	8	8 000.0170	1
3	2	0	8	9 000.0547	1
3	2	0	8	10 000.0562	1
3	2	0	3	11 000.1675	1
3	2	0	7	12 000.2291	1
3	2	0	7	13 000.0115	1
3	2	0	7	14 000.0967	1
3	2	0	7	15 000.7592	1
3	2	0	3	16 000.0411	1
3	2	0	7	17 000.0068	1
3	2	0	7	18 000.0551	1
3	2	0	7	19 000.0516	1
3	2	0	8	20 000.0368	1
3	2	0	2	21 000.4736	1
3	2	0	9	22 001.7560	1
3	2	1	0	0 142.2627	16
3	2	1	9	23 027.8793	16
3	2	1	7	24 001.4857	16
3	2	1	3	25 008.9611	16
3	2	1	3	26 000.0988	16
3	2	1	8	27 003.2765	16
3	2	1	7	28 006.7048	16
3	2	1	8	29 008.7594	16
3	2	1	8	30 003.1166	16
3	2	1	8	31 002.4479	16
3	2	1	3	32 000.2821	16
3	2	1	7	33 014.0445	16
3	2	1	8	34 004.0871	16
3	2	1	8	35 012.1984	16
3	2	1	3	36 000.2866	16
3	2	1	7	37 000.1170	16
3	2	1	7	38 000.0363	16
3	2	1	8	39 000.7466	16
3	2	1	8	40 000.0593	16
3	2	1	8	41 000.3442	16

FLOW 2

Plate	Flow	Enlargement	Type	ID	Total	Factor
1	2	0	0	0	008.7193	1
1	2	0	7	1	000.2150	1
1	2	0	7	2	000.9013	1
1	2	0	8	3	000.5773	1
1	2	0	7	4	000.0410	1
1	2	0	7	5	000.0522	1
1	2	0	7	6	000.0403	1
1	2	0	7	7	000.1470	1
1	2	0	1	8	004.8498	1
1	2	0	1	9	000.7438	1
1	2	1	0	0	016.6309	16
1	2	1	7	10	000.2101	16
1	2	1	7	11	000.8147	16
1	2	1	7	12	000.1700	16
1	2	1	7	13	000.0573	16
1	2	1	5	14	002.5497	16
1	2	1	1	15	012.7127	16
2	2	0	0	0	015.2198	1
2	2	0	7	1	000.0767	1
2	2	0	7	2	000.0271	1
2	2	0	7	3	000.0423	1
2	2	0	7	4	000.0414	1
2	2	0	7	5	000.0737	1
2	2	0	7	6	000.0167	1
2	2	0	7	7	000.2166	1
2	2	0	7	8	000.1450	1
2	2	0	7	9	000.2425	1
2	2	0	7	10	000.0629	1
2	2	0	8	11	001.7374	1
2	2	0	7	12	000.0361	1
2	2	0	8	13	000.0497	1
2	2	0	1	14	001.9081	1
2	2	0	2	15	001.6304	1
2	2	0	3	16	000.2021	1
2	2	0	7	17	000.0714	1
2	2	0	1	18	003.2620	1
2	2	0	7	19	000.0063	1
2	2	0	7	20	000.0255	1
2	2	0	7	21	000.0852	1
2	2	0	7	22	000.0676	1
2	2	0	7	23	000.0490	1
2	2	0	2	24	000.0194	1
2	2	0	2	25	000.0283	1
2	2	0	7	26	000.0164	1
2	2	0	7	27	000.0108	1
2	2	0	8	52	001.1236	1
2	2	1	0	0	011.1966	16
2	2	1	1	28	008.1699	16
2	2	1	5	29	001.0358	16
2	2	1	7	30	001.8799	16
2	2	1	7	31	000.0176	16
2	2	1	7	32	000.0742	16
2	2	1	8	33	000.0604	16
2	2	2	0	0	050.3808	16
2	2	2	7	34	000.0831	16
2	2	2	7	35	001.5722	16

FLOW 2			
4	2	2	7 48 000.3745 16
4	2	2	7 49 000.0990 16
4	2	2	7 50 000.1473 16
4	2	2	1 51 000.6964 16
4	2	2	2 52 004.0614 16
4	2	3	0 0 048.9701 16
4	2	3	8 53 001.0604 16
4	2	3	7 54 000.0429 16
4	2	3	5 55 000.1076 16
4	2	3	7 56 001.3139 16
4	2	3	9 57 014.2753 16
4	2	3	8 58 000.1696 16
4	2	3	7 59 000.1718 16
4	2	3	8 60 003.3935 16
4	2	3	7 61 001.2310 16
4	2	3	7 62 000.3163 16
4	2	3	7 63 000.0093 16
4	2	3	7 64 001.0213 16
4	2	3	7 65 000.5123 16
4	2	3	7 66 000.1298 16
4	2	3	9 67 003.0289 16
4	2	3	7 68 000.2632 16
4	2	3	7 69 003.6260 16
4	2	3	5 70 005.2204 16
4	2	3	1 71 012.5403 16
5	2	0	0 0 045.6356 1
5	2	0	7 1 000.1481 1
5	2	0	1 2 002.9587 1
5	2	0	7 3 000.1961 1
5	2	0	8 4 000.2477 1
5	2	0	8 5 000.7863 1
5	2	0	8 6 000.0737 1
5	2	0	8 7 000.0895 1
5	2	0	7 8 000.6357 1
5	2	0	2 9 000.3615 1
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5	2	0	7 13 000.0317 1
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5	2	0	7 15 000.1648 1
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5	2	0	7 17 000.0150 1
5	2	0	8 18 000.0768 1
5	2	0	2 19 000.0796 1
5	2	0	9 20 005.5736 1
5	2	0	7 21 000.0268 1
5	2	0	1 22 000.2415 1
5	2	0	7 23 000.1165 1
5	2	0	1 24 002.1586 1
5	2	0	7 25 000.0663 1
5	2	0	9 26 000.6971 1
5	2	0	7 27 000.1554 1
5	2	0	9 28 008.6765 1
5	2	0	7 29 000.0378 1
5	2	0	7 30 000.1423 1
5	2	0	2 31 000.3982 1
5	2	0	8 32 000.4019 1
5	2	0	8 33 000.0912 1

...

FLOW 2			
3	2	1	7 42 012.5882 16
3	2	1	7 43 000.2015 16
3	2	1	7 44 000.0193 16
3	2	1	7 45 000.0957 16
3	2	1	7 46 000.4135 16
3	2	1	7 47 000.1143 16
3	2	1	7 48 000.1307 16
3	2	1	2 49 012.5521 16
3	2	1	1 50 020.9346 16
4	2	0	0 0 041.6744 1
4	2	0	7 1 000.0137 1
4	2	0	7 2 000.2692 1
4	2	0	7 3 000.1074 1
4	2	0	1 4 006.3829 1
4	2	0	7 5 000.0476 1
4	2	0	2 6 001.1876 1
4	2	0	7 7 000.0636 1
4	2	0	7 8 000.3592 1
4	2	0	8 9 000.0685 1
4	2	0	7 10 000.0946 1
4	2	0	4 11 000.0310 1
4	2	0	7 12 000.0509 1
4	2	0	7 13 000.1290 1
4	2	0	2 14 000.0320 1
4	2	0	2 15 000.0096 1
4	2	0	8 16 000.0573 1
4	2	0	7 17 000.4433 1
4	2	0	2 18 000.2324 1
4	2	0	2 19 000.0971 1
4	2	0	8 20 000.0757 1
4	2	0	7 21 000.1083 1
4	2	0	7 22 000.0555 1
4	2	0	7 23 000.0126 1
4	2	0	2 24 001.2932 1
4	2	0	7 25 000.0590 1
4	2	0	8 26 000.8337 1
4	2	0	7 27 000.2695 1
4	2	0	8 28 000.1218 1
4	2	0	7 29 000.0364 1
4	2	0	7 30 000.0251 1
4	2	0	7 31 000.1028 1
4	2	0	7 32 000.0206 1
4	2	0	9 33 008.5554 1
4	2	0	9 34 013.5663 1
4	2	1	0 0 030.6633 16
4	2	1	7 35 001.6049 16
4	2	1	2 36 008.3181 16
4	2	1	8 37 010.8531 16
4	2	1	7 38 002.1334 16
4	2	1	7 39 000.1718 16
4	2	1	3 40 000.8318 16
4	2	1	7 41 000.0743 16
4	2	1	7 42 000.0295 16
4	2	1	9 43 006.5720 16
4	2	2	0 0 030.5904 16
4	2	2	9 44 023.9854 16
4	2	2	7 45 000.1055 16
4	2	2	4 46 000.8113 16
4	2	2	7 47 000.3358 16

FLOW 2			
5	2	4	7 89 006.2734
5	2	4	7 90 000.7331
5	2	4	3 91 002.6561
5	2	4	9 92 013.2202
6	2	0	0 0 0 041.7254
6	2	0	9 1 006.4232
6	2	0	9 2 002.1860
6	2	0	7 3 000.0753
6	2	0	2 4 000.0797
6	2	0	7 5 000.0430
6	2	0	7 6 000.1082
6	2	0	8 7 000.0096
6	2	0	7 8 000.2490
6	2	0	1 9 005.2996
6	2	0	7 10 000.1477
6	2	0	7 11 000.0071
6	2	0	7 12 000.0087
6	2	0	8 13 000.0604
6	2	0	7 14 000.1159
6	2	0	8 15 001.6682
6	2	0	8 16 000.7850
6	2	0	7 17 000.5049
6	2	0	7 18 000.0087
6	2	0	7 19 000.0073
6	2	0	7 20 000.0707
6	2	0	3 21 000.0084
6	2	0	7 22 000.0312
6	2	0	7 23 000.1297
6	2	0	7 24 000.0154
6	2	0	7 25 000.1491
6	2	0	2 26 002.0921
6	2	0	8 27 000.2201
6	2	0	8 28 000.0833
6	2	0	8 29 000.1832
6	2	0	8 30 000.1591
6	2	0	8 31 000.1363
6	2	0	7 32 001.9810
6	2	0	7 33 000.0151
6	2	0	7 34 000.0055
6	2	0	7 35 000.0567
6	2	0	2 36 000.9580
6	2	0	9 37 004.5411
6	2	1	0 0 0 046.6861
6	2	1	9 38 002.6338
6	2	1	4 39 000.6884
6	2	1	9 40 019.9251
6	2	1	7 41 000.9270
6	2	1	7 42 000.1674
6	2	1	7 43 000.0319
6	2	1	3 44 000.7796
6	2	1	8 45 000.5294
6	2	1	7 46 016.0193
6	2	1	2 47 001.3623
6	2	1	1 48 002.3034
6	2	1	1 49 001.3552
6	2	2	0 0 0 068.5959
6	2	2	2 50 012.2217
6	2	2	7 51 001.1524
6	2	2	7 52 000.8433

FLOW 2			
5	2	0	7 34 000.6433
5	2	0	7 35 000.4151
5	2	0	9 36 009.7601
5	2	1	0 0 0 035.4514
5	2	1	9 37 008.7586
5	2	1	7 38 000.8943
5	2	1	7 39 000.3061
5	2	1	7 40 000.1019
5	2	1	3 41 001.2959
5	2	1	3 42 000.0216
5	2	1	8 43 008.6505
5	2	1	8 44 000.4574
5	2	1	7 45 003.2775
5	2	1	7 46 001.5668
5	2	1	5 47 002.8754
5	2	1	1 48 007.4317
5	2	2	0 0 0 039.0433
5	2	2	9 49 016.5786
5	2	2	7 50 000.1521
5	2	2	7 51 000.0816
5	2	2	8 52 012.6032
5	2	2	7 53 001.3647
5	2	2	1 54 007.1411
5	2	2	4 55 001.2422
5	2	3	0 0 0 042.6044
5	2	3	1 56 014.3465
5	2	3	7 57 000.0425
5	2	3	5 58 002.0187
5	2	3	7 59 000.1226
5	2	3	7 60 000.0899
5	2	3	8 61 004.3987
5	2	3	8 62 001.1004
5	2	3	3 63 000.9012
5	2	3	3 64 000.0779
5	2	3	7 65 014.3661
5	2	3	3 66 001.0006
5	2	3	9 67 000.4997
5	2	3	9 68 000.4281
5	2	3	9 69 003.4623
5	2	3	9 70 000.2196
5	2	4	0 0 0 097.4166
5	2	4	7 71 004.0108
5	2	4	8 72 000.5561
5	2	4	3 73 000.3578
5	2	4	7 74 000.4096
5	2	4	1 75 000.3195
5	2	4	1 76 000.2291
5	2	4	9 77 058.6081
5	2	4	7 78 000.1101
5	2	4	7 79 000.0294
5	2	4	7 80 000.0172
5	2	4	7 81 000.0107
5	2	4	4 82 000.4953
5	2	4	7 83 000.0050
5	2	4	8 84 000.1996
5	2	4	7 85 001.8130
5	2	4	2 86 006.1082
5	2	4	7 87 000.3664
5	2	4	7 88 002.0778

FLOW 2			
8	2	0	7 39 000.0626
8	2	0	1 40 002.1107
8	2	0	7 41 000.0937
8	2	0	8 42 000.0232
8	2	0	8 43 000.0578
8	2	0	8 44 000.0323
8	2	0	7 45 000.2875
8	2	0	1 46 002.4282
8	2	0	8 87 000.0610
8	2	0	8 88 000.8782
8	2	0	7 89 000.5598
8	2	0	1 90 000.6632
8	2	1	0 0 287.0123
8	2	1	8 47 001.5673
8	2	1	8 48 000.2801
8	2	1	8 49 000.0190
8	2	1	8 50 000.0278
8	2	1	8 51 000.1965
8	2	1	8 52 000.1199
8	2	1	8 53 000.0495
8	2	1	7 54 004.7538
8	2	1	7 55 000.3393
8	2	1	7 56 000.4544
8	2	1	7 57 000.0265
8	2	1	8 58 004.4219
8	2	1	8 59 003.9002
8	2	1	7 60 004.1434
8	2	1	7 61 000.2216
8	2	1	7 62 000.1409
8	2	1	7 63 000.1530
8	2	1	7 64 001.5741
8	2	1	8 65 019.5066
8	2	1	7 66 000.3187
8	2	1	8 67 000.7143
8	2	1	8 68 001.5972
8	2	1	3 69 000.2007
8	2	1	7 70 000.0218
8	2	1	3 71 000.2582
8	2	1	7 72 028.0734
8	2	1	3 73 000.7309
8	2	1	2 74 003.8150
8	2	1	7 75 000.5355
8	2	1	8 76 002.4397
8	2	1	8 77 051.1264
8	2	1	7 78 010.4014
8	2	1	8 79 001.6891
8	2	1	7 80 004.9183
8	2	1	7 81 002.6371
8	2	1	3 82 004.5176
8	2	1	4 83 001.1544
8	2	1	2 84 013.0668
8	2	1	1 85 018.5422
8	2	1	9 86 098.1821
9	2	0	0 0 035.0650
9	2	0	7 1 000.0528
9	2	0	8 2 000.0119
9	2	0	7 3 000.2302
9	2	0	7 4 000.0191
9	2	0	8 5 000.1433

FLOW 2			
7	2	2	8 73 000.1132
7	2	2	7 74 000.0352
7	2	2	2 75 001.4529
7	2	2	7 76 000.1409
7	2	2	8 77 063.5981
7	2	2	7 78 015.1357
7	2	2	7 79 003.5577
7	2	2	3 80 008.8590
7	2	2	7 81 002.1969
7	2	2	8 82 001.0368
7	2	2	7 83 002.1124
7	2	2	7 84 000.6099
7	2	2	7 85 000.1186
7	2	2	9 86 013.7762
7	2	2	6 87 000.1144
7	2	2	9 88 001.9809
7	2	2	9 89 000.3117
7	2	2	7 90 000.5216
7	2	2	1 91 017.1515
7	2	2	7 92 000.5743
8	2	0	0 0 038.5323
8	2	0	7 1 000.0236
8	2	0	7 2 000.0432
8	2	0	8 3 000.1633
8	2	0	7 4 000.0260
8	2	0	7 5 000.0160
8	2	0	8 6 000.2263
8	2	0	8 7 000.0302
8	2	0	7 8 000.0480
8	2	0	2 9 001.7092
8	2	0	1 10 000.3644
8	2	0	7 11 000.0263
8	2	0	7 12 000.0490
8	2	0	8 13 004.5680
8	2	0	7 14 000.0540
8	2	0	8 15 000.0541
8	2	0	7 16 000.1511
8	2	0	8 17 000.0297
8	2	0	7 18 000.0745
8	2	0	7 19 000.0087
8	2	0	7 20 000.0102
8	2	0	8 21 000.2841
8	2	0	7 22 000.2909
8	2	0	8 23 000.0209
8	2	0	8 24 000.0620
8	2	0	8 25 000.0088
8	2	0	7 26 001.1368
8	2	0	7 27 000.3414
8	2	0	8 28 000.0254
8	2	0	7 29 000.0623
8	2	0	7 30 000.0479
8	2	0	7 31 000.0090
8	2	0	7 32 000.2058
8	2	0	2 33 001.8630
8	2	0	7 34 000.1720
8	2	0	7 35 000.0220
8	2	0	7 36 000.0655
8	2	0	2 37 000.9970
8	2	0	2 38 000.0809

FLOW 2			
9	2	2	9 63 009.2500 16
9	2	2	8 64 000.2110 16
9	2	2	8 65 000.0430 16
9	2	2	8 66 002.4611 16
9	2	2	3 67 000.6682 16
9	2	2	3 68 000.1175 16
9	2	2	8 69 015.1714 16
9	2	2	7 70 012.1492 16
9	2	2	7 71 007.5821 16
9	2	2	8 72 013.1358 16
9	2	2	8 73 014.7708 16
9	2	2	7 74 008.8840 16
9	2	2	8 75 000.1256 16
9	2	2	7 76 005.0843 16
9	2	2	7 77 000.1060 16
9	2	2	7 78 000.1600 16
9	2	2	7 79 001.3286 16
9	2	2	2 80 024.5622 16
9	2	2	8 81 002.4174 16
9	2	2	7 82 000.4424 16
9	2	2	3 83 001.9545 16
9	2	2	7 84 000.2968 16
9	2	2	1 85 003.2184 16
9	2	2	1 86 001.1216 16
10	2	0	0 0 028.5158 1
10	2	0	7 1 000.1519 1
10	2	0	7 2 000.0978 1
10	2	0	7 3 000.0306 1
10	2	0	7 4 000.1000 1
10	2	0	8 5 000.0135 1
10	2	0	7 6 000.0378 1
10	2	0	2 7 000.0644 1
10	2	0	8 8 000.2502 1
10	2	0	7 9 000.0231 1
10	2	0	7 10 000.0616 1
10	2	0	7 11 000.1293 1
10	2	0	1 12 004.0085 1
10	2	1	0 0 137.7601 16
10	2	1	7 13 000.5915 16
10	2	1	7 14 004.7011 16
10	2	1	1 15 017.3941 16
10	2	1	8 16 012.6741 16
10	2	1	7 17 000.0975 16
10	2	1	7 18 000.0663 16
10	2	1	7 19 000.9676 16
10	2	1	3 20 001.9204 16
10	2	1	7 21 000.1768 16
10	2	1	4 22 000.6825 16
10	2	1	7 23 005.1531 16
10	2	1	3 24 000.9760 16
10	2	1	7 25 000.4613 16
10	2	1	7 26 000.0506 16
10	2	1	7 27 004.5454 16
10	2	1	8 28 001.1692 16
10	2	1	9 29 085.6430 16
10	2	2	0 0 246.5015 16
10	2	2	7 30 001.2246 16
10	2	2	8 31 001.1836 16
10	2	2	8 32 001.4180 16

FLOW 2			
9	2	0	8 6 000.4842 1
9	2	0	8 7 000.0281 1
9	2	0	7 8 001.5401 1
9	2	0	2 9 000.9976 1
9	2	0	7 10 000.0427 1
9	2	0	7 11 000.0418 1
9	2	0	8 12 000.0486 1
9	2	0	7 13 000.0423 1
9	2	0	7 14 000.1549 1
9	2	0	8 15 000.0110 1
9	2	0	8 16 000.0063 1
9	2	0	1 17 001.9307 1
9	2	0	7 18 000.0906 1
9	2	0	7 19 000.2160 1
9	2	0	7 20 000.1616 1
9	2	0	7 21 000.0654 1
9	2	0	1 22 003.1623 1
9	2	0	2 23 000.3226 1
9	2	0	7 24 000.0525 1
9	2	1	0 0 274.5156 16
9	2	1	7 25 002.2182 16
9	2	1	8 26 011.2369 16
9	2	1	7 27 001.4082 16
9	2	1	7 28 000.0107 16
9	2	1	7 29 000.0306 16
9	2	1	7 30 000.0666 16
9	2	1	7 31 000.0233 16
9	2	1	2 32 009.8435 16
9	2	1	8 33 005.0077 16
9	2	1	8 34 005.0361 16
9	2	1	7 35 006.7667 16
9	2	1	8 36 048.1441 16
9	2	1	7 37 001.7979 16
9	2	1	7 38 000.0310 16
9	2	1	8 39 000.5986 16
9	2	1	7 40 000.4975 16
9	2	1	7 41 000.6527 16
9	2	1	7 42 000.4845 16
9	2	1	7 43 000.5858 16
9	2	1	3 44 008.8363 16
9	2	1	8 45 000.8664 16
9	2	1	7 46 003.0642 16
9	2	1	8 47 100.9828 16
9	2	1	7 48 000.0950 16
9	2	1	3 49 001.0820 16
9	2	1	7 50 015.8621 16
9	2	1	3 51 000.2450 16
9	2	1	9 52 021.4056 16
9	2	1	1 53 023.9148 16
9	2	1	8 54 004.0992 16
9	2	2	0 0 131.5489 16
9	2	2	7 55 002.2520 16
9	2	2	9 56 002.3106 16
9	2	2	7 57 000.0044 16
9	2	2	7 58 000.0135 16
9	2	2	7 59 000.0137 16
9	2	2	5 60 000.1717 16
9	2	2	4 61 000.1656 16
9	2	2	7 62 001.6360 16

FLOW 2				
11	2	1	6 29 000.0356	16
11	2	1	9 30 011.5967	16
11	2	1	9 31 000.8335	16
11	2	1	7 32 000.3013	16
11	2	1	2 33 003.8356	16
11	2	1	7 34 002.2321	16
11	2	1	7 35 000.2011	16
11	2	1	8 36 000.4429	16
11	2	1	8 37 000.3653	16
11	2	1	8 38 003.5704	16
11	2	1	7 39 014.1249	16
11	2	1	9 40 018.1722	16
11	2	1	1 41 022.6949	16
11	2	1	7 42 000.0562	16
11	2	1	7 43 000.6275	16
11	2	2	0 0 138.4344	16
11	2	2	7 44 001.2482	16
11	2	2	9 45 003.3602	16
11	2	2	5 46 000.1535	16
11	2	2	6 47 000.0607	16
11	2	2	9 48 007.5445	16
11	2	2	7 49 000.3038	16
11	2	2	6 50 000.0868	16
11	2	2	9 51 000.8767	16
11	2	2	9 52 000.8323	16
11	2	2	8 53 020.0519	16
11	2	2	7 54 000.5123	16
11	2	2	7 55 000.5679	16
11	2	2	7 56 000.1940	16
11	2	2	7 57 000.8071	16
11	2	2	8 58 031.4331	16
11	2	2	7 59 000.2216	16
11	2	2	3 60 001.4900	16
11	2	2	8 61 006.0929	16
11	2	2	7 62 000.4372	16
11	2	2	7 63 005.7493	16
11	2	2	7 64 001.9806	16
11	2	2	8 65 002.8200	16
11	2	2	8 66 001.3721	16
11	2	2	7 67 000.0767	16
11	2	2	7 68 000.0214	16
11	2	2	7 69 000.5047	16
11	2	2	7 70 000.2337	16
11	2	2	3 71 000.7880	16
11	2	2	7 72 000.3435	16
11	2	2	8 73 003.1440	16
11	2	2	3 74 000.6071	16
11	2	2	7 75 000.0527	16
11	2	2	2 76 022.6309	16
11	2	2	1 77 020.6179	16
11	2	2	9 78 000.4148	16
12	2	0	0 0 021.8035	1
12	2	0	7 1 000.0475	1
12	2	0	8 2 000.1005	1
12	2	0	7 3 000.1873	1
12	2	0	7 4 000.2100	1
12	2	0	7 5 000.1195	1
12	2	0	7 6 000.2425	1
12	2	0	2 7 000.4118	1

Plate Flow Enlargement Type				ID Total	Factor
10	2	2	8	33 001.8024	16
10	2	2	8	34 001.4367	16
10	2	2	8	35 003.5786	16
10	2	2	8	36 031.3231	16
10	2	2	7	37 032.5442	16
10	2	2	7	38 005.4597	16
10	2	2	7	39 000.0868	16
10	2	2	7	40 000.8634	16
10	2	2	3	41 000.5611	16
10	2	2	7	42 000.4119	16
10	2	2	4	43 000.4982	16
10	2	2	7	44 001.5070	16
10	2	2	3	45 004.0369	16
10	2	2	8	46 018.2025	16
10	2	2	7	47 002.7382	16
10	2	2	8	48 014.7346	16
10	2	2	9	49 070.9452	16
10	2	2	7	50 000.0947	16
10	2	2	1	51 027.3123	16
10	2	2	2	52 023.3983	16
10	2	2	7	53 000.0510	16

Plate Flow Enlargement Type				ID Total	Factor
11	2	0	0	0 034.3280	1
11	2	0	7	1 063.0050	1
11	2	0	8	2 000.3641	1
11	2	0	7	3 000.4998	1
11	2	0	7	4 000.0523	1
11	2	0	8	5 000.2754	1
11	2	0	7	6 000.2568	1
11	2	0	2	7 000.3153	1
11	2	0	1	8 000.4289	1
11	2	0	8	9 000.2276	1
11	2	0	2	10 000.2637	1
11	2	0	9	11 000.0496	1
11	2	0	7	12 000.1667	1
11	2	0	8	13 000.7606	1
11	2	0	7	14 000.0998	1
11	2	0	2	15 000.4156	1
11	2	0	1	16 001.6666	1
11	2	0	1	17 000.0208	1
11	2	0	7	18 000.0667	1
11	2	0	1	19 000.0773	1
11	2	0	7	20 000.3536	1
11	2	0	7	21 000.0061	1
11	2	0	2	22 000.7270	1
11	2	0	9	23 001.6247	1
11	2	0	1	24 002.7736	1
11	2	0	9	79 009.0741	1
11	2	1	0	0 082.0182	16
11	2	1	2	25 000.2359	16
11	2	1	5	26 000.0420	16
11	2	1	7	27 002.4006	16
11	2	1	5	28 000.3370	16

FLOW 2				
13	2	0	7 13	000.0872
13	2	0	7 14	000.0603
13	2	0	2 15	000.8803
13	2	0	1 16	002.2154
13	2	0	7 17	000.0765
13	2	0	1 18	001.7591
13	2	0	9 19	001.1718
13	2	0	2 20	000.3676
13	2	0	8 21	000.2565
13	2	1	0 0	080.8637
13	2	1	7 22	002.0424
13	2	1	2 23	013.2750
13	2	1	7 24	000.3294
13	2	1	7 25	000.5265
13	2	1	7 26	004.2261
13	2	1	8 27	013.4386
13	2	1	7 28	008.1147
13	2	1	3 29	000.6621
13	2	1	7 30	005.6186
13	2	1	7 31	002.6412
13	2	1	8 32	016.5971
13	2	1	9 33	004.9002
13	2	1	1 34	005.9737
13	2	1	3 35	002.0503
13	2	2	0 0	067.6917
13	2	2	7 36	000.6048
13	2	2	7 37	000.0895
13	2	2	7 38	000.0172
13	2	2	7 39	000.0336
13	2	2	7 40	000.0082
13	2	2	7 41	000.7132
13	2	2	8 42	006.8248
13	2	2	8 43	011.2260
13	2	2	7 44	015.9874
13	2	2	7 45	000.0428
13	2	2	7 46	002.3286
13	2	2	7 47	007.3396
13	2	2	7 48	000.3015
13	2	2	2 49	016.9360
13	2	2	1 50	004.2733
13	2	2	9 51	000.0643
13	2	3	0 0	038.8236
13	2	3	7 52	000.1216
13	2	3	7 53	000.3026
13	2	3	4 54	000.4305
13	2	3	5 55	002.0310
13	2	3	6 56	000.1157
13	2	3	7 57	001.5606
13	2	3	1 58	011.1258
13	2	3	9 59	015.6993
13	2	3	9 60	003.8659
13	2	3	9 61	003.4814
14	2	0	0 0	030.0336
14	2	0	9 1	001.0160
14	2	0	7 2	000.0135
14	2	0	1 3	000.5894
14	2	0	8 4	000.1613
14	2	0	7 5	000.0806
14	2	0	1 6	000.9904

FLOW 2				
12	2	0	7 8	000.0419
12	2	0	1 9	000.4769
12	2	0	9 10	001.0573
12	2	0	7 11	000.0554
12	2	0	1 12	000.8666
12	2	0	7 13	000.0733
12	2	0	2 14	000.1152
12	2	0	7 15	000.0119
12	2	0	4 16	000.0155
12	2	0	9 17	000.6134
12	2	0	9 18	002.3776
12	2	0	1 19	003.5205
12	2	0	1 20	000.3116
12	2	0	1 21	000.0238
12	2	1	0 0	172.8710
12	2	1	3 22	001.2004
12	2	1	3 23	000.6163
12	2	1	8 24	000.6958
12	2	1	8 25	009.0158
12	2	1	8 26	000.7973
12	2	1	8 27	000.1021
12	2	1	8 28	013.7384
12	2	1	8 29	003.2817
12	2	1	7 30	042.0929
12	2	1	1 31	006.8090
12	2	1	7 32	000.1322
12	2	1	9 33	015.3970
12	2	1	7 34	000.0628
12	2	1	7 35	001.6863
12	2	1	8 36	000.2456
12	2	1	7 37	003.9190
12	2	1	7 38	000.0279
12	2	1	7 39	000.0676
12	2	1	2 40	006.4535
12	2	1	7 41	000.6295
12	2	1	7 42	000.2132
12	2	1	7 43	000.8652
12	2	1	3 44	000.8267
12	2	1	3 45	000.4341
12	2	1	8 46	004.8435
12	2	1	8 47	003.4468
12	2	1	3 48	000.1057
12	2	1	7 49	004.0849
12	2	1	7 50	001.9930
12	2	1	1 51	047.3290
12	2	1	9 52	000.2649
13	2	0	0 0	021.1050
13	2	0	8 1	000.0330
13	2	0	7 2	000.0909
13	2	0	2 3	000.3586
13	2	0	7 4	000.0534
13	2	0	1 5	001.3894
13	2	0	7 6	000.0798
13	2	0	7 7	000.0301
13	2	0	8 8	000.1262
13	2	0	7 9	000.2656
13	2	0	7 10	000.0296
13	2	0	7 11	000.0124
13	2	0	7 12	000.0047

FLOW 2			
15	2	0	7 12 000.5986
15	2	0	7 13 000.0291
15	2	0	2 14 000.1593
15	2	0	8 15 000.6195
15	2	0	8 16 000.5716
15	2	0	2 17 001.0922
15	2	0	1 18 007.4058
15	2	0	9 19 006.8178
15	2	0	7 20 000.1130
15	2	1	0 0 009.7736
15	2	1	7 21 000.0285
15	2	1	7 22 000.1698
15	2	1	4 23 000.2932
15	2	1	1 24 000.6637
15	2	1	9 25 008.6210
15	2	2	0 0 016.7487
15	2	2	7 26 000.2843
15	2	2	4 27 000.2855
15	2	2	7 28 000.3022
15	2	2	1 29 002.9090
15	2	2	9 30 012.9460
16	2	0	0 0 025.8958
16	2	0	7 1 000.1039
16	2	0	7 2 000.2278
16	2	0	8 3 001.5647
16	2	0	7 4 000.0435
16	2	0	4 5 000.0630
16	2	0	7 6 000.0885
16	2	0	7 7 000.1742
16	2	0	8 8 000.0363
16	2	0	7 9 000.2665
16	2	0	2 10 000.4132
16	2	0	8 11 000.0224
16	2	0	7 12 000.0739
16	2	0	7 13 000.0770
16	2	0	2 14 000.1676
16	2	0	2 15 000.2753
16	2	0	7 16 000.0662
16	2	0	7 17 000.6916
16	2	0	7 18 000.0425
16	2	0	7 19 000.0283
16	2	0	9 20 011.2006
16	2	0	9 21 000.4805
16	2	0	1 29 008.9186
16	2	1	0 0 013.4717
16	2	1	1 22 003.4733
16	2	1	5 23 000.6098
16	2	1	7 24 001.0277
16	2	1	7 25 000.0564
16	2	1	6 26 000.0804
16	2	1	9 27 000.3794
16	2	1	9 28 007.8747
17	2	0	0 0 011.1839
17	2	0	7 1 000.3981
17	2	0	2 2 000.3937
17	2	0	8 3 000.1008
17	2	0	7 4 000.4158
17	2	0	7 5 000.5368
17	2	0	7 6 000.4357

FLOW 2			
14	2	0	7 7 000.0153
14	2	0	7 8 000.0426
14	2	0	7 9 000.4438
14	2	0	8 10 000.4235
14	2	0	7 11 000.4183
14	2	0	8 12 000.3399
14	2	0	8 13 000.4612
14	2	0	7 14 000.3172
14	2	0	7 15 000.0062
14	2	0	7 16 000.0212
14	2	0	7 17 000.0628
14	2	0	7 18 000.0616
14	2	0	8 19 000.2077
14	2	0	7 20 000.4902
14	2	0	2 21 002.8342
14	2	0	7 22 000.0316
14	2	0	7 23 000.0056
14	2	0	7 24 000.0201
14	2	0	7 25 000.0154
14	2	0	7 26 000.0410
14	2	0	7 27 000.0044
14	2	0	8 28 000.2567
14	2	0	8 29 001.7665
14	2	0	7 30 000.0262
14	2	0	7 31 000.4398
14	2	0	7 32 000.0269
14	2	0	2 33 001.8805
14	2	0	1 34 004.2193
14	2	0	9 35 006.2287
14	2	1	0 0 010.5652
14	2	1	4 36 001.9735
14	2	1	2 37 000.2157
14	2	1	9 38 008.3265
14	2	2	0 0 080.0446
14	2	2	1 39 004.9343
14	2	2	7 40 000.6080
14	2	2	7 41 001.2813
14	2	2	7 42 001.1901
14	2	2	7 43 000.3902
14	2	2	7 44 000.0340
14	2	2	7 45 000.1856
14	2	2	7 46 000.2008
14	2	2	7 47 000.5064
14	2	2	8 48 029.5588
14	2	2	3 49 004.5861
14	2	2	9 50 032.6444
14	2	2	1 51 003.7644
15	2	0	0 0 020.7850
15	2	0	9 1 000.4290
15	2	0	7 2 000.0343
15	2	0	2 3 000.0696
15	2	0	7 4 000.0147
15	2	0	7 5 000.0856
15	2	0	7 6 000.1573
15	2	0	7 7 000.0063
15	2	0	7 8 000.0991
15	2	0	8 9 000.0951
15	2	0	7 10 000.1915
15	2	0	2 11 000.5673

FLOW 2			
18	2	1	4 50 001.4363
18	2	1	7 51 003.6380
18	2	1	8 52 006.3719
18	2	1	7 53 000.2654
18	2	1	9 54 004.1151
18	2	1	7 55 000.9151
18	2	1	7 56 000.2352
18	2	1	8 57 004.7614
18	2	1	2 58 016.4596
18	2	1	7 59 000.0744
18	2	1	8 60 000.4201
18	2	1	7 61 001.1719
18	2	1	9 62 044.5697
18	2	1	7 63 000.1010
18	2	2	0 0 089.2481
18	2	2	7 64 000.0607
18	2	2	8 65 000.9727
18	2	2	7 66 007.2877
18	2	2	7 67 000.4163
18	2	2	7 68 000.0606
18	2	2	7 69 008.5719
18	2	2	8 70 005.5160
18	2	2	7 71 004.8551
18	2	2	3 72 002.0384
18	2	2	7 73 005.4742
18	2	2	7 74 000.2023
18	2	2	2 75 017.6140
18	2	2	1 76 010.6218
18	2	2	9 77 019.8433
18	2	2	8 78 006.0506

FLOW 2			
17	2	0	7 7 000.0350
17	2	0	7 8 000.0508
17	2	0	7 9 000.2111
17	2	0	8 10 000.1521
17	2	0	7 11 000.3515
17	2	0	8 12 000.2406
17	2	0	2 13 000.5623
17	2	0	1 14 007.1361
18	2	0	0 0 025.1399
18	2	0	7 1 000.0207
18	2	0	7 2 000.3638
18	2	0	7 3 000.0239
18	2	0	7 4 000.5543
18	2	0	7 5 000.2085
18	2	0	8 6 000.2908
18	2	0	8 7 000.0246
18	2	0	7 8 000.6089
18	2	0	7 9 000.1093
18	2	0	8 10 000.1868
18	2	0	7 11 000.1032
18	2	0	7 12 000.0418
18	2	0	8 13 000.5168
18	2	0	7 14 000.2133
18	2	0	2 15 001.0935
18	2	0	2 16 000.2204
18	2	0	1 17 001.8572
18	2	0	2 18 000.1255
18	2	0	7 19 000.0165
18	2	0	8 20 000.1661
18	2	0	7 21 000.0358
18	2	0	2 22 000.5021
18	2	0	7 23 000.2333
18	2	0	8 24 000.4083
18	2	0	7 25 000.0271
18	2	0	8 26 000.2673
18	2	0	7 27 000.2502
18	2	0	1 28 001.0494
18	2	0	8 29 000.0596
18	2	0	7 30 000.0563
18	2	0	8 31 000.0468
18	2	0	7 32 000.0851
18	2	0	7 33 000.0921
18	2	0	1 34 001.6349
18	2	0	2 35 000.0749
18	2	0	2 36 000.0798
18	2	0	2 37 000.2960
18	2	1	0 0 114.3736
18	2	1	7 38 000.1110
18	2	1	7 39 000.0992
18	2	1	7 40 000.2760
18	2	1	7 41 000.1664
18	2	1	7 42 000.3490
18	2	1	7 43 000.4373
18	2	1	3 44 002.7819
18	2	1	8 45 018.1469
18	2	1	6 46 000.8319
18	2	1	9 47 003.5468
18	2	1	7 48 002.5329
18	2	1	3 49 000.9327

		FLOW 3			
3	3	0	7	13	000.0290
3	3	0	8	14	000.3650
3	3	0	7	15	000.4417
3	3	0	2	16	000.4019
3	3	0	1	17	005.6883
3	3	0	9	18	001.2349
3	3	1	0	0	107.8601
3	3	1	7	19	000.0266
3	3	1	7	20	005.2212
3	3	1	7	21	000.6672
3	3	1	8	22	009.9189
3	3	1	8	23	003.5038
3	3	1	8	24	003.3604
3	3	1	8	25	002.8452
3	3	1	7	26	006.1651
3	3	1	7	27	012.2378
3	3	1	7	28	011.3749
3	3	1	8	29	012.9172
3	3	1	8	30	004.5641
3	3	1	2	31	021.5072
3	3	1	7	32	000.3144
3	3	1	7	33	000.5153
3	3	1	5	34	000.2450
3	3	1	7	35	000.0830
3	3	1	8	36	000.4967
3	3	1	1	37	014.0616
4	3	0	0	0	039.1701
4	3	0	7	1	000.0795
4	3	0	9	2	005.3410
4	3	0	7	3	000.0243
4	3	0	7	4	000.0200
4	3	0	7	5	000.0056
4	3	0	7	6	000.0605
4	3	0	7	7	000.0464
4	3	0	7	8	000.0156
4	3	0	2	9	001.0760
4	3	0	7	10	000.1738
4	3	0	7	11	000.1167
4	3	0	8	12	000.0712
4	3	0	7	13	000.0090
4	3	0	7	14	000.1172
4	3	0	7	15	000.0077
4	3	0	8	16	000.1438
4	3	0	2	17	001.1086
4	3	0	8	18	000.8852
4	3	0	7	19	000.0271
4	3	0	7	20	000.2193
4	3	0	7	21	000.1390
4	3	0	2	22	000.6031
4	3	0	8	23	000.0633
4	3	0	7	24	000.0904
4	3	0	7	25	000.1068
4	3	0	7	26	000.1085
4	3	0	7	27	000.0495
4	3	0	8	28	000.0643
4	3	0	9	29	001.1325
4	3	0	1	30	006.5808
4	3	0	7	31	000.0119
4	3	0	9	32	013.3612

FLOW 3					
Plate	Flow	Enlargement	Type	ID Total	Factor
1	3	0	0	0 007.7600	1
1	3	0	7	1 000.1153	1
1	3	0	7	2 000.0915	1
1	3	0	7	3 000.0991	1
1	3	0	8	4 000.5333	1
1	3	0	7	5 000.0754	1
1	3	0	7	6 000.0311	1
1	3	0	7	7 000.0814	1
1	3	0	1	8 005.0214	1
1	3	0	1	9 000.6436	1
1	3	1	0	0 017.1579	16
1	3	1	7	10 000.7797	16
1	3	1	7	11 000.1435	16
1	3	1	7	12 000.0802	16
1	3	1	5	13 002.2673	16
1	3	1	1	14 013.7253	16
2	3	0	0	0 015.2144	1
2	3	0	7	1 000.0391	1
2	3	0	7	2 000.2006	1
2	3	0	8	3 000.0375	1
2	3	0	7	4 000.1250	1
2	3	0	7	5 000.0214	1
2	3	0	8	6 001.7876	1
2	3	0	2	7 001.5324	1
2	3	0	3	8 000.0846	1
2	3	0	7	9 000.4002	1
2	3	0	7	10 000.2170	1
2	3	0	1	11 004.1271	1
2	3	0	7	12 000.0494	1
2	3	0	7	13 000.0298	1
2	3	0	1	14 001.4635	1
2	3	0	7	15 000.0112	1
2	3	0	8	16 001.0997	1
2	3	1	0	0 059.4899	16
2	3	1	7	20 001.4741	16
2	3	1	8	21 016.9067	16
2	3	1	7	22 012.3510	16
2	3	1	8	23 001.6638	16
2	3	1	1	24 027.0943	16
2	3	2	0	0 005.6569	16
2	3	2	7	17 000.9933	16
2	3	2	5	18 001.0598	16
2	3	2	1	19 003.6038	16
3	3	0	0	0 018.1971	1
3	3	0	7	1 000.2376	1
3	3	0	7	2 000.0174	1
3	3	0	7	3 000.0174	1
3	3	0	7	4 000.0228	1
3	3	0	2	5 001.2811	1
3	3	0	7	6 000.0667	1
3	3	0	7	7 000.0350	1
3	3	0	7	8 000.0711	1
3	3	0	7	9 000.4959	1
3	3	0	8	10 000.0580	1
3	3	0	7	11 000.1680	1
3	3	0	7	12 000.1024	1

5	3	FLOW 3	0	7	24	000.0368	1
5	3		0	7	25	000.1219	1
5	3		0	8	26	000.9636	1
5	3		0	7	27	000.3165	1
5	3		0	7	28	000.4007	1
5	3		0	7	29	000.0147	1
5	3		0	9	30	006.5194	1
5	3		0	9	31	006.0011	1
5	3		0	1	32	003.3873	1
5	3		0	1	33	003.0963	1
5	3		0	4	74	000.0934	1
5	3		1	0	0	059.2798	16
5	3		1	8	34	000.4313	16
5	3		1	3	35	002.0050	16
5	3		1	7	36	004.1639	16
5	3		1	5	37	006.1205	16
5	3		1	8	38	010.0082	16
5	3		1	9	39	021.6778	16
5	3		1	1	40	010.4872	16
5	3		1	7	41	004.8286	16
5	3		2	0	0	027.0717	16
5	3		2	9	42	008.5726	16
5	3		2	4	43	001.2536	16
5	3		2	7	44	000.1856	16
5	3		2	7	45	000.8010	16
5	3		2	5	46	000.5592	16
5	3		2	1	47	002.9956	16
5	3		2	8	48	012.6243	16
5	3		3	0	0	167.1310	16
5	3		3	2	49	000.9665	16
5	3		3	7	50	000.0340	16
5	3		3	4	51	000.6014	16
5	3		3	7	52	001.2675	16
5	3		3	9	53	072.6936	16
5	3		3	3	54	002.6099	16
5	3		3	7	55	001.8942	16
5	3		3	7	56	000.2741	16
5	3		3	7	57	007.1036	16
5	3		3	7	58	000.1761	16
5	3		3	7	59	000.1459	16
5	3		3	9	60	042.7349	16
5	3		3	5	61	000.2813	16
5	3		3	9	62	000.8952	16
5	3		3	7	63	008.2641	16
5	3		3	8	64	004.2582	16
5	3		3	8	65	000.8042	16
5	3		3	2	66	002.7471	16
5	3		3	1	67	000.2381	16
5	3		3	1	68	000.2722	16
5	3		3	7	69	003.3544	16
5	3		3	3	70	000.5614	16
5	3		3	8	71	000.6875	16
5	3		3	7	72	000.1149	16
5	3		3	1	73	013.0861	16
6	3		0	0	0	036.6748	1
6	3		0	7	1	000.0245	1
6	3		0	7	2	000.1101	1
6	3		0	7	3	000.0093	1
6	3		0	7	4	000.0041	1

4	3	FLOW 3	1	0	0	072.3418	16
4	3		1	7	33	001.2570	16
4	3		1	7	34	000.0674	16
4	3		1	7	35	000.6983	16
4	3		1	9	36	035.3377	16
4	3		1	8	37	012.4095	16
4	3		1	7	38	001.0213	16
4	3		1	2	39	018.2579	16
4	3		1	7	40	000.7915	16
4	3		1	3	41	002.1706	16
4	3		2	0	0	025.5753	16
4	3		2	7	42	000.0740	16
4	3		2	7	43	000.0473	16
4	3		2	4	44	000.7420	16
4	3		2	9	45	020.9174	16
4	3		2	4	46	000.0608	16
4	3		2	7	47	000.2518	16
4	3		2	7	48	000.0133	16
4	3		2	1	49	003.4899	16
4	3		3	0	0	023.2313	16
4	3		3	7	50	000.4046	16
4	3		3	9	51	003.4203	16
4	3		3	5	52	003.5449	16
4	3		3	7	53	000.4789	16
4	3		3	7	54	000.1205	16
4	3		3	8	55	000.1138	16
4	3		3	8	56	003.5714	16
4	3		3	7	57	000.5087	16
4	3		3	7	58	000.0849	16
4	3		3	7	59	000.8940	16
4	3		3	7	60	000.5282	16
4	3		3	7	61	000.1313	16
4	3		3	7	62	000.2368	16
4	3		3	9	63	002.9963	16
4	3		3	1	64	007.4181	16
5	3		0	0	0	040.2656	1
5	3		0	3	1	000.0179	1
5	3		0	7	2	000.0803	1
5	3		0	8	3	000.1083	1
5	3		0	7	4	000.1214	1
5	3		0	7	5	000.1159	1
5	3		0	8	6	000.0749	1
5	3		0	8	7	000.6504	1
5	3		0	7	8	000.6717	1
5	3		0	8	9	000.1068	1
5	3		0	2	10	000.8319	1
5	3		0	8	11	000.0224	1
5	3		0	7	12	000.0837	1
5	3		0	8	13	000.0396	1
5	3		0	7	14	000.0498	1
5	3		0	2	15	000.3838	1
5	3		0	7	16	000.1471	1
5	3		0	2	17	000.0725	1
5	3		0	8	18	000.0791	1
5	3		0	8	19	000.0142	1
5	3		0	7	20	000.1394	1
5	3		0	7	21	000.0792	1
5	3		0	7	22	000.0627	1
5	3		0	2	23	000.5643	1

6	3	FLOW 3	7	61	002.1073	16
6	3	3	7	62	000.5682	16
6	3	3	7	63	000.8104	16
6	3	3	8	64	016.2903	16
6	3	3	8	65	003.8301	16
6	3	3	7	66	000.1826	16
6	3	3	7	67	000.2484	16
6	3	3	7	68	000.1509	16
6	3	3	7	69	000.0244	16
6	3	3	7	70	000.9197	16
6	3	3	8	71	013.0582	16
6	3	3	7	72	000.9760	16
6	3	3	7	73	000.1312	16
6	3	3	7	74	000.0382	16
6	3	3	1	75	007.4502	16
7	3	0	0	0	033.7960	1
7	3	0	7	1	000.0776	1
7	3	0	7	2	000.1887	1
7	3	0	7	3	000.0054	1
7	3	0	7	4	000.4749	1
7	3	0	8	5	000.0530	1
7	3	0	8	6	000.0119	1
7	3	0	8	7	000.0332	1
7	3	0	7	8	000.0544	1
7	3	0	2	9	002.0576	1
7	3	0	7	10	000.0639	1
7	3	0	8	11	004.1165	1
7	3	0	7	12	000.2892	1
7	3	0	7	13	000.1082	1
7	3	0	7	14	000.0977	1
7	3	0	7	15	000.3953	1
7	3	0	7	16	000.0677	1
7	3	0	8	17	000.0809	1
7	3	0	7	18	000.0424	1
7	3	0	2	19	000.1826	1
7	3	0	8	20	000.2662	1
7	3	0	7	21	000.5244	1
7	3	0	8	22	000.0433	1
7	3	0	7	23	000.1294	1
7	3	0	9	24	003.5656	1
7	3	0	9	25	004.2892	1
7	3	0	7	26	000.0304	1
7	3	0	7	27	000.2032	1
7	3	0	8	28	000.5690	1
7	3	0	8	29	000.0239	1
7	3	0	7	30	000.1354	1
7	3	0	7	31	000.0285	1
7	3	0	7	32	000.4071	1
7	3	0	7	33	000.2850	1
7	3	0	7	34	000.0569	1
7	3	0	7	35	000.0059	1
7	3	0	2	36	000.1783	1
7	3	0	7	37	000.0132	1
7	3	0	8	38	000.3767	1
7	3	0	7	39	000.6653	1
7	3	0	8	40	000.0140	1
7	3	0	8	41	000.1364	1
7	3	0	7	42	000.1223	1
7	3	0	8	43	000.3309	1

6	3	FLOW 3	0	7	5	000.0644	1
6	3	0	7	6	000.2164	1	
6	3	0	7	7	000.1716	1	
6	3	0	7	8	000.1052	1	
6	3	0	8	9	000.0745	1	
6	3	0	8	10	001.3609	1	
6	3	0	2	11	001.3588	1	
6	3	0	7	12	000.0506	1	
6	3	0	7	13	000.6215	1	
6	3	0	8	14	000.7341	1	
6	3	0	7	15	000.1257	1	
6	3	0	2	16	000.3369	1	
6	3	0	7	17	000.1537	1	
6	3	0	7	18	000.0313	1	
6	3	0	1	19	003.4523	1	
6	3	0	7	20	001.4344	1	
6	3	0	7	21	000.0391	1	
6	3	0	8	22	000.1427	1	
6	3	0	7	23	000.2938	1	
6	3	0	8	24	000.4609	1	
6	3	0	2	25	000.0362	1	
6	3	0	8	26	000.3674	1	
6	3	0	2	27	000.0351	1	
6	3	0	8	28	000.2066	1	
6	3	0	2	29	001.2995	1	
6	3	0	7	30	000.0535	1	
6	3	0	7	31	000.1018	1	
6	3	0	1	32	002.5749	1	
6	3	0	7	33	000.0432	1	
6	3	0	9	34	005.4702	1	
6	3	0	9	35	003.0508	1	
6	3	1	0	0	058.9537	16	
6	3	1	9	36	003.5611	16	
6	3	1	4	37	000.8722	16	
6	3	1	9	38	022.5888	16	
6	3	1	7	39	000.9120	16	
6	3	1	3	40	001.3901	16	
6	3	1	7	41	016.8620	16	
6	3	1	2	42	002.0685	16	
6	3	1	8	43	000.5073	16	
6	3	1	1	44	009.8802	16	
6	3	2	0	0	062.0448	16	
6	3	2	2	45	006.9370	16	
6	3	2	7	46	002.3143	16	
6	3	2	3	47	003.8534	16	
6	3	2	8	48	002.3514	16	
6	3	2	8	49	017.1956	16	
6	3	2	9	50	017.4782	16	
6	3	2	7	51	000.1905	16	
6	3	2	7	52	000.2181	16	
6	3	2	7	53	002.0626	16	
6	3	2	8	54	000.2492	16	
6	3	2	8	55	000.2637	16	
6	3	2	7	56	000.1412	16	
6	3	2	8	57	003.0716	16	
6	3	2	1	58	005.6700	16	
6	3	3	0	0	082.4223	16	
6	3	3	9	59	028.0581	16	
6	3	3	2	60	007.4543	16	

		FLOW 3			
8	3	0	7	37	000.0205
8	3	0	7	38	000.0305
8	3	0	1	39	002.1047
8	3	0	8	40	000.0310
8	3	0	8	41	000.0419
8	3	0	7	42	000.1047
8	3	1	0	0	266.8541
8	3	1	8	43	001.6464
8	3	1	8	44	000.2795
8	3	1	8	45	000.1333
8	3	1	8	46	000.1910
8	3	1	7	47	003.8491
8	3	1	7	48	000.2435
8	3	1	7	49	000.1202
8	3	1	7	50	000.2006
8	3	1	7	51	000.1702
8	3	1	7	52	000.9598
8	3	1	2	53	019.5352
8	3	1	8	54	003.8234
8	3	1	7	55	003.4373
8	3	1	8	56	003.9042
8	3	1	7	57	004.2776
8	3	1	7	58	001.4363
8	3	1	7	59	002.0116
8	3	1	7	60	001.1751
8	3	1	7	61	003.7219
8	3	1	8	62	001.8967
8	3	1	7	63	000.0451
8	3	1	7	64	001.3504
8	3	1	7	65	000.0182
8	3	1	7	66	001.8914
8	3	1	7	67	000.3504
8	3	1	7	68	000.0377
8	3	1	3	69	009.7709
8	3	1	8	70	020.3352
8	3	1	7	71	002.9961
8	3	1	7	72	007.2692
8	3	1	8	73	001.6879
8	3	1	7	74	011.7933
8	3	1	8	75	054.8658
8	3	1	9	76	012.6231
8	3	1	7	77	000.5390
8	3	1	4	78	000.9712
8	3	1	9	79	066.4046
8	3	1	7	80	000.3591
8	3	1	1	81	020.0741
9	3	0	0	0	034.1873
9	3	0	7	1	000.0103
9	3	0	7	2	000.0941
9	3	0	8	3	000.1353
9	3	0	8	4	000.5598
9	3	0	7	5	001.1843
9	3	0	2	6	000.7787
9	3	0	1	7	001.3803
9	3	0	7	8	000.0284
9	3	0	7	9	000.0416
9	3	0	7	10	000.0193
9	3	0	2	11	000.2592
9	3	0	7	12	000.0210

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7	3	0	7	46	000.0598	1
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7	3	0	8	52	000.0191	1
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7	3	1	9	53	022.2560	16
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7	3	1	5	56	001.6838	16
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7	3	1	7	59	000.2649	16
7	3	1	7	60	000.2089	16
7	3	1	7	61	001.0116	16
7	3	1	7	62	000.1022	16
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7	3	1	1	64	002.3390	16
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8	3	0	8	2	000.1987	1
8	3	0	8	3	000.0385	1
8	3	0	2	4	001.8714	1
8	3	0	8	5	004.4881	1
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8	3	0	7	7	000.0211	1
8	3	0	7	8	000.0374	1
8	3	0	7	9	000.0481	1
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8	3	0	7	11	000.2529	1
8	3	0	7	12	000.0460	1
8	3	0	8	13	000.0444	1
8	3	0	8	14	000.0193	1
8	3	0	7	15	000.5489	1
8	3	0	7	16	000.2672	1
8	3	0	7	17	000.0945	1
8	3	0	7	18	000.2197	1
8	3	0	8	19	000.0261	1
8	3	0	7	20	000.0532	1
8	3	0	2	21	002.1152	1
8	3	0	7	22	000.0666	1
8	3	0	7	23	000.1889	1
8	3	0	7	24	000.1649	1
8	3	0	7	25	000.0412	1
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8	3	0	7	29	000.0303	1
8	3	0	3	30	000.0217	1
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8	3	0	7	32	000.2835	1
8	3	0	8	33	001.1936	1
8	3	0	9	34	000.1175	1
8	3	0	1	35	004.0607	1
8	3	0	7	36	000.0043	1

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9	3	2	7	71	000.1384	16
9	3	2	7	72	002.2222	16
9	3	2	9	73	002.1837	16
9	3	2	8	74	000.2138	16
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10	3	0	8	3	000.0201	1
10	3	0	7	4	000.0054	1
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10	3	0	7	8	000.0340	1
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10	3	0	1	10	000.6838	1
10	3	0	7	11	000.0401	1
10	3	0	2	12	000.3337	1
10	3	0	7	13	000.1119	1
10	3	0	1	14	000.2570	1
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10	3	0	7	17	000.1797	1
10	3	0	7	18	000.0090	1
10	3	0	9	19	000.2265	1
10	3	1	0	0	263.1263	16
10	3	1	7	20	000.0347	16
10	3	1	7	21	002.1371	16
10	3	1	1	22	034.7099	16
10	3	1	8	23	016.9202	16
10	3	1	8	24	000.6263	16
10	3	1	7	25	002.9924	16
10	3	1	3	26	003.7066	16
10	3	1	8	27	028.1248	16
10	3	1	7	28	011.0153	16
10	3	1	7	29	005.8551	16
10	3	1	4	30	000.4238	16
10	3	1	3	31	001.0314	16
10	3	1	7	32	009.6370	16
10	3	1	9	33	155.5508	16
10	3	2	0	0	158.3108	16
10	3	2	7	34	000.1777	16
10	3	2	1	35	007.2334	16
10	3	2	8	36	001.3546	16
10	3	2	8	37	003.0052	16
10	3	2	8	38	001.9193	16
10	3	2	8	39	005.5675	16
10	3	2	7	40	012.6784	16
10	3	2	7	41	000.4528	16
10	3	2	7	42	000.0429	16
10	3	2	7	43	000.1865	16
10	3	2	4	44	026.9845	16
10	3	2	7	45	006.8152	16
10	3	2	8	46	032.3613	16
10	3	2	7	47	002.6373	16
10	3	2	7	48	001.0745	16
10	3	2	8	49	001.5812	16
10	3	2	3	50	000.5777	16
10	3	2	9	51	047.7444	16

9	3	0	7	13	000.1606	1
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9	3	0	7	15	000.0509	1
9	3	0	8	16	000.0255	1
9	3	0	7	17	000.0347	1
9	3	0	1	18	004.2379	1
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9	3	1	8	19	005.1094	16
9	3	1	7	20	003.6070	16
9	3	1	8	21	005.6812	16
9	3	1	7	22	001.7926	16
9	3	1	2	23	006.1033	16
9	3	1	8	24	048.8327	16
9	3	1	8	25	001.2838	16
9	3	1	8	26	000.6151	16
9	3	1	3	27	009.1439	16
9	3	1	7	28	002.7468	16
9	3	1	3	29	000.2711	16
9	3	1	8	30	108.0194	16
9	3	1	7	31	000.2171	16
9	3	1	7	32	001.8190	16
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9	3	1	9	34	020.9874	16
9	3	1	7	35	002.7166	16
9	3	1	7	36	004.4077	16
9	3	1	7	37	000.3261	16
9	3	1	3	38	003.6682	16
9	3	1	1	39	008.0045	16
9	3	1	8	40	001.0364	16
9	3	2	0	0	177.2047	16
9	3	2	8	41	003.1564	16
9	3	2	7	42	013.3236	16
9	3	2	1	43	007.5801	16
9	3	2	7	44	000.0373	16
9	3	2	7	45	000.0380	16
9	3	2	7	46	000.0695	16
9	3	2	3	47	001.0640	16
9	3	2	7	48	001.8595	16
9	3	2	7	49	001.2391	16
9	3	2	2	50	030.5284	16
9	3	2	8	51	017.9125	16
9	3	2	7	52	012.0056	16
9	3	2	8	53	016.4492	16
9	3	2	3	54	000.8979	16
9	3	2	3	55	000.5565	16
9	3	2	7	56	000.4260	16
9	3	2	7	57	001.9716	16
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9	3	2	7	59	000.1013	16
9	3	2	7	60	004.3498	16
9	3	2	8	61	027.4829	16
9	3	2	7	62	001.3753	16
9	3	2	7	63	001.4107	16
9	3	2	8	64	006.4832	16
9	3	2	3	65	002.8762	16
9	3	2	9	66	014.1048	16
9	3	2	1	67	003.7465	16
9	3	2	7	68	000.5253	16
9	3	2	7	69	000.0160	16

		FLOW 3		
11	3	2	2	51 029.0746
11	3	2	7	52 000.0175
11	3	2	7	53 000.0174
11	3	2	7	54 000.8429
11	3	2	5	55 000.1515
11	3	2	3	56 002.4265
11	3	2	7	57 000.3437
11	3	2	8	58 001.4820
11	3	2	7	59 003.7612
11	3	2	4	60 000.1253
11	3	2	4	61 000.0842
11	3	2	8	62 038.8857
11	3	2	9	63 000.5873
11	3	2	7	64 004.0765
11	3	2	8	65 001.8544
11	3	2	7	66 002.8708
11	3	2	1	67 040.6163
11	3	2	8	68 004.4163
11	3	2	3	69 000.3645
11	3	2	7	70 002.9138
11	3	2	9	71 001.5604
11	3	2	7	72 000.2654
11	3	2	8	73 006.4032
12	3	0	0	0 022.0723
12	3	0	8	1 000.1637
12	3	0	7	2 000.2744
12	3	0	7	3 000.1995
12	3	0	7	4 000.1947
12	3	0	2	5 000.3407
12	3	0	1	6 003.9024
12	3	0	9	7 002.2929
12	3	0	7	8 000.0578
12	3	0	7	9 000.0980
12	3	0	2	10 000.1913
12	3	0	7	11 000.1665
12	3	0	2	12 000.0479
12	3	0	7	13 000.0370
12	3	0	1	14 002.6280
12	3	0	9	15 000.1860
12	3	0	9	16 000.7405
12	3	1	0	0 061.1343
12	3	1	9	17 022.0112
12	3	1	3	18 000.4718
12	3	1	3	19 000.5870
12	3	1	3	20 005.2399
12	3	1	8	21 003.2346
12	3	1	7	22 005.8668
12	3	1	2	23 003.6013
12	3	1	8	24 001.3329
12	3	1	7	25 004.7238
12	3	1	1	26 014.1062
12	3	2	0	0 113.1657
12	3	2	8	27 000.1324
12	3	2	8	28 000.7207
12	3	2	7	29 013.7616
12	3	2	8	30 015.2631
12	3	2	7	31 001.2178
12	3	2	2	32 004.3062
12	3	2	8	33 003.4004

		FLOW 3		
10	3	2	3	52 000.7794
10	3	2	4	53 000.5242
10	3	2	7	54 004.8535
10	3	2	7	55 000.3577
11	3	0	0	0 036.0395
11	3	0	7	1 000.1703
11	3	0	2	2 000.0408
11	3	0	7	3 000.3124
11	3	0	8	4 000.2817
11	3	0	1	5 002.9522
11	3	0	7	6 000.0221
11	3	0	8	7 000.1780
11	3	0	2	8 000.2068
11	3	0	8	9 000.4500
11	3	0	7	10 000.0691
11	3	0	2	11 000.3197
11	3	0	1	12 001.4243
11	3	0	7	13 000.0034
11	3	0	1	14 000.0272
11	3	0	7	15 000.0533
11	3	0	1	16 000.2514
11	3	0	7	17 000.2963
11	3	0	2	18 000.7957
11	3	0	2	19 000.1394
11	3	0	9	74 009.7351
11	3	0	9	75 003.4989
11	3	1	0	0 065.2368
11	3	1	9	20 003.8152
11	3	1	6	21 000.1228
11	3	1	5	22 000.0585
11	3	1	7	23 001.3470
11	3	1	7	24 000.2051
11	3	1	7	25 000.1672
11	3	1	7	26 000.1529
11	3	1	2	27 005.0048
11	3	1	9	28 009.4828
11	3	1	8	29 004.9618
11	3	1	7	30 013.3656
11	3	1	1	31 018.5789
11	3	1	7	32 001.2689
11	3	1	7	33 000.0240
11	3	1	7	34 000.0073
11	3	1	5	35 000.4651
11	3	1	7	36 000.4064
11	3	1	9	37 005.3748
11	3	1	9	38 000.3813
11	3	2	0	0 177.9996
11	3	2	9	39 004.7091
11	3	2	7	40 000.0622
11	3	2	7	41 000.0918
11	3	2	5	42 000.0203
11	3	2	9	43 000.9267
11	3	2	9	44 000.9586
11	3	2	8	45 021.2324
11	3	2	7	46 000.3736
11	3	2	8	47 003.5771
11	3	2	7	48 000.4286
11	3	2	7	49 000.1597
11	3	2	8	50 003.1263

FLOW 3

13	3	1	8	38	014.8835	16
13	3	1	7	39	000.3277	16
13	3	1	7	40	000.4548	16
13	3	1	7	41	000.2313	16
13	3	1	9	42	004.6380	16
13	3	1	7	43	000.0960	16
13	3	1	2	55	001.5313	16
13	3	2	0	0	048.8004	16
13	3	2	1	44	008.9365	16
13	3	2	7	45	001.0355	16
13	3	2	5	46	000.2016	16
13	3	2	9	47	015.4181	16
13	3	2	2	48	007.1320	16
13	3	2	7	49	000.0881	16
13	3	2	7	50	000.2521	16
13	3	2	5	51	000.6165	16
13	3	2	3	52	000.5681	16
13	3	2	7	53	000.8803	16
13	3	2	9	54	013.6234	16
14	3	0	0	0	031.8337	1
14	3	0	9	1	009.0446	1
14	3	0	7	2	000.0345	1
14	3	0	7	3	000.0342	1
14	3	0	7	4	000.0377	1
14	3	0	7	5	000.0764	1
14	3	0	2	6	000.3715	1
14	3	0	7	7	000.0862	1
14	3	0	8	8	002.0558	1
14	3	0	1	9	006.6849	1
14	3	0	7	10	000.0398	1
14	3	0	7	11	000.4503	1
14	3	0	7	12	000.3464	1
14	3	0	8	13	000.4387	1
14	3	0	7	14	000.1805	1
14	3	0	8	15	000.3321	1
14	3	0	7	16	000.1469	1
14	3	0	8	17	000.5181	1
14	3	0	7	18	000.0470	1
14	3	0	7	19	000.0928	1
14	3	0	7	20	000.0396	1
14	3	0	8	21	000.2124	1
14	3	0	7	22	000.5043	1
14	3	0	2	23	002.7803	1
14	3	0	7	24	000.0158	1
14	3	0	7	25	000.0090	1
14	3	0	7	26	000.0119	1
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14	3	0	8	28	000.2404	1
14	3	0	7	29	000.4345	1
14	3	0	8	30	001.8311	1
14	3	0	9	31	001.7284	1
14	3	0	7	32	000.0384	1
14	3	0	7	33	000.0609	1
14	3	0	7	34	000.0182	1
14	3	1	0	0	016.8430	16
14	3	1	4	35	002.0162	16
14	3	1	8	36	013.2124	16
14	3	1	7	37	000.4532	16
14	3	1	2	38	001.1990	16

FLOW 3

Plate	Flow	Enlargement	Type	ID	Total	Factor
12	3	2	7	34	002.7365	16
12	3	2	7	35	002.8925	16
12	3	2	8	36	009.6452	16
12	3	2	8	37	000.8092	16
12	3	2	7	38	003.5587	16
12	3	2	7	39	000.8563	16
12	3	2	7	40	012.6320	16
12	3	2	2	41	001.5506	16
12	3	2	1	42	007.9977	16
12	3	2	7	43	000.6206	16
12	3	2	1	44	024.7397	16
12	3	2	5	45	000.1095	16
12	3	2	9	46	006.1605	16

Plate	Flow	Enlargement	Type	ID	Total	Factor
13	3	0	0	0	021.1129	1
13	3	0	8	1	000.0055	1
13	3	0	7	2	000.0493	1
13	3	0	2	3	000.3198	1
13	3	0	7	4	000.0682	1
13	3	0	1	5	001.3135	1
13	3	0	7	6	000.0173	1
13	3	0	7	7	000.1877	1
13	3	0	7	8	000.0137	1
13	3	0	8	9	000.1059	1
13	3	0	7	10	000.0282	1
13	3	0	7	11	000.0133	1
13	3	0	7	12	000.0104	1
13	3	0	7	13	000.1059	1
13	3	0	8	14	000.4278	1
13	3	0	8	15	000.6675	1
13	3	0	7	16	001.1185	1
13	3	0	7	17	000.1165	1
13	3	0	7	18	000.4145	1
13	3	0	8	19	000.0513	1
13	3	0	7	20	000.0190	1
13	3	0	2	21	002.6139	1
13	3	0	7	22	000.1083	1
13	3	0	1	23	003.1683	1
13	3	0	1	24	000.7106	1
13	3	0	1	25	000.4651	1
13	3	0	8	26	009.1313	1
13	3	0	9	27	000.8808	1
13	3	1	0	0	084.9489	16
13	3	1	1	28	016.9557	16
13	3	1	8	29	017.1947	16
13	3	1	7	30	006.3238	16
13	3	1	7	31	000.1031	16
13	3	1	2	32	009.7996	16
13	3	1	7	33	002.7576	16
13	3	1	7	34	005.8763	16
13	3	1	3	35	000.7556	16
13	3	1	3	36	002.1809	16
13	3	1	7	37	001.6516	16

FLOW 3			
16	3	2	9 26 008.8074
17	3	0	0 0 011.2601
17	3	0	2 1 000.0446
17	3	0	7 2 000.3048
17	3	0	2 3 000.5433
17	3	0	2 4 000.1100
17	3	0	7 5 000.3491
17	3	0	7 6 000.3632
17	3	0	7 7 000.2997
17	3	0	4 8 000.1471
17	3	0	7 9 000.0107
17	3	0	7 10 000.0220
17	3	0	7 11 000.0231
17	3	0	7 12 000.1697
17	3	0	2 13 000.7923
17	3	0	8 14 000.1519
17	3	0	7 15 000.3900
17	3	0	7 16 000.0381
17	3	0	8 17 000.1798
17	3	0	1 18 007.4385
18	3	0	0 0 025.2100
18	3	0	8 1 000.3313
18	3	0	7 2 000.0561
18	3	0	7 3 000.0220
18	3	0	8 4 000.0157
18	3	0	7 5 000.0819
18	3	0	7 6 000.2759
18	3	0	7 7 000.0235
18	3	0	7 8 000.0126
18	3	0	7 9 000.5492
18	3	0	7 10 000.0903
18	3	0	7 11 000.3530
18	3	0	8 12 000.1780
18	3	0	7 13 000.1787
18	3	0	7 14 000.0296
18	3	0	7 15 000.2006
18	3	0	8 16 000.5024
18	3	0	7 17 000.1827
18	3	0	2 18 000.1658
18	3	0	8 19 000.1497
18	3	0	7 20 000.4622
18	3	0	7 21 000.0155
18	3	0	7 22 000.0501
18	3	0	8 23 000.5370
18	3	0	2 24 000.6835
18	3	0	7 25 000.6263
18	3	0	7 26 000.0227
18	3	0	8 27 000.2128
18	3	0	7 28 000.3421
18	3	0	8 29 000.1479
18	3	0	7 30 000.0485
18	3	0	8 31 000.0565
18	3	0	7 32 000.0463
18	3	0	7 33 000.0225
18	3	0	2 34 001.5794
18	3	0	1 35 007.4192
18	3	0	9 36 000.8316
18	3	1	0 0 105.7747
18	3	1	3 37 002.9433

FLOW 3			
15	3	0	0 0 021.7788
15	3	0	9 1 000.2588
15	3	0	7 2 000.0212
15	3	0	9 3 007.2138
15	3	0	9 4 000.0677
15	3	0	7 5 000.0976
15	3	0	7 6 000.0822
15	3	0	8 7 000.1071
15	3	0	7 8 000.2240
15	3	0	2 9 000.6131
15	3	0	7 10 000.1224
15	3	0	1 11 007.8428
15	3	0	8 12 000.6995
15	3	0	7 13 000.0982
15	3	0	8 14 000.6185
15	3	0	7 15 000.1781
15	3	0	2 16 001.3056
15	3	0	7 17 000.0636
15	3	1	0 0 014.6450
15	3	1	4 18 000.3028
15	3	1	9 19 011.0472
15	3	1	7 20 000.6974
15	3	1	1 21 002.6067
15	3	2	0 0 018.7373
15	3	2	4 22 000.3954
15	3	2	9 23 015.5952
15	3	2	7 24 000.6231
15	3	2	7 25 000.3097
15	3	2	1 26 001.7449
16	3	0	0 0 026.9817
16	3	0	7 1 000.0706
16	3	0	8 2 001.6570
16	3	0	7 3 000.0280
16	3	0	7 4 000.1370
16	3	0	8 5 000.0414
16	3	0	7 6 000.2113
16	3	0	2 7 000.4163
16	3	0	8 8 000.0401
16	3	0	7 9 000.0423
16	3	0	7 10 000.0667
16	3	0	2 11 000.1195
16	3	0	7 12 000.6230
16	3	0	2 13 000.3272
16	3	0	7 14 000.0610
16	3	0	1 15 009.4445
16	3	0	9 27 011.7624
16	3	0	9 28 000.2102
16	3	1	0 0 009.5902
16	3	1	1 16 003.3399
16	3	1	5 17 000.1248
16	3	1	7 18 000.2551
16	3	1	6 19 000.1173
16	3	1	7 20 000.1024
16	3	1	9 21 003.6725
16	3	2	0 0 015.6632
16	3	2	1 22 005.1271
16	3	2	7 23 000.3286
16	3	2	7 24 030.2694
16	3	2	4 25 001.1393

FLOW 4

Plate	Flow	Enlargement	Type	ID	Total	Factor
1	4	0	0	0	007.4819	1
1	4	0	7	1	000.0499	1
1	4	0	7	2	000.0153	1
1	4	0	7	3	000.0603	1
1	4	0	8	4	000.5625	1
1	4	0	7	5	000.0290	1
1	4	0	1	6	005.5501	1
1	4	0	1	7	000.8435	1
1	4	1	0	0	004.8985	16
1	4	1	7	8	000.2919	16
1	4	1	7	9	000.0572	16
1	4	1	5	10	001.2604	16
1	4	1	1	11	003.2890	16
2	4	0	0	0	014.5336	1
2	4	0	2	1	000.2022	1
2	4	0	7	2	000.1556	1
2	4	0	8	3	000.0494	1
2	4	0	2	4	000.1070	1
2	4	0	7	5	000.0202	1
2	4	0	8	6	001.6931	1
2	4	0	7	7	000.1527	1
2	4	0	7	8	000.0239	1
2	4	0	2	9	000.2108	1
2	4	0	6	10	001.1128	1
2	4	0	7	11	000.0277	1
2	4	0	1	12	003.5994	1
2	4	0	1	27	004.0688	1
2	4	1	0	0	038.2304	16
2	4	1	7	16	000.6162	16
2	4	1	7	17	000.6332	16
2	4	1	8	18	000.6260	16
2	4	1	7	19	000.6484	16
2	4	1	2	20	003.5866	16
2	4	1	8	21	004.3965	16
2	4	1	7	22	000.9289	16
2	4	1	8	23	009.8598	16
2	4	1	7	24	006.1480	16
2	4	1	8	25	001.3356	16
2	4	1	1	26	009.4512	16
2	4	2	0	0	013.2883	16
2	4	2	7	13	000.2919	16
2	4	2	5	14	000.4023	16
2	4	2	1	15	012.2886	16
3	4	0	0	0	018.1609	1
3	4	0	1	1	008.1006	1
3	4	0	7	2	000.0975	1
3	4	0	7	3	000.0441	1
3	4	0	7	4	000.0487	1
3	4	0	7	5	000.0042	1
3	4	0	7	6	000.0301	1
3	4	0	7	7	000.2155	1
3	4	0	7	8	000.0082	1
3	4	0	7	9	000.0189	1
3	4	0	7	10	000.1341	1
3	4	0	2	11	000.9578	1
3	4	0	7	12	000.0082	1

FLOW 3

18	3	1	6	38	000.9211	16
18	3	1	8	39	019.0066	16
18	3	1	7	40	001.2366	16
18	3	1	7	41	000.4121	16
18	3	1	8	42	003.4969	16
18	3	1	7	43	001.7184	16
18	3	1	8	44	006.3998	16
18	3	1	7	45	000.8246	16
18	3	1	4	46	000.7414	16
18	3	1	8	47	003.2920	16
18	3	1	7	48	003.8159	16
18	3	1	8	49	000.1785	16
18	3	1	9	50	045.6909	16
18	3	1	2	51	015.0436	16
18	3	2	0	0	036.4365	16
18	3	2	7	52	000.2715	16
18	3	2	8	53	000.8950	16
18	3	2	7	54	006.4098	16
18	3	2	7	55	000.0652	16
18	3	2	7	56	001.6600	16
18	3	2	8	57	006.2082	16
18	3	2	7	58	000.1051	16
18	3	2	2	59	010.7835	16
18	3	2	9	60	009.7819	16

4	4	1	8	25	011.4221	16
4	4	1	6	26	000.0466	16
4	4	1	7	27	000.7055	16
4	4	1	9	28	003.1587	16
4	4	1	7	29	000.4660	16
4	4	2	0	0	027.7858	16
4	4	2	4	30	001.1980	16
4	4	2	7	31	000.0641	16
4	4	2	4	32	000.1169	16
4	4	2	7	33	000.0260	16
4	4	2	8	34	000.2796	16
4	4	2	7	35	000.0278	16
4	4	2	2	36	002.0173	16
4	4	2	1	37	001.6537	16
4	4	2	9	38	022.3432	16
4	4	3	0	0	019.0842	16
4	4	3	9	40	003.0905	16
4	4	3	7	41	000.2318	16
4	4	3	5	42	002.3320	16
4	4	3	7	43	000.2447	16
4	4	3	8	44	003.4896	16
4	4	3	7	45	001.7498	16
4	4	3	7	46	000.8917	16
4	4	3	7	47	000.3072	16
4	4	3	7	48	000.1227	16
4	4	3	8	49	000.3116	16
4	4	3	7	50	000.0411	16
4	4	3	9	51	001.2342	16
4	4	3	1	52	005.0373	16
5	4	0	0	0	038.1748	1
5	4	0	2	1	000.0736	1
5	4	0	8	2	000.1071	1
5	4	0	7	3	000.0841	1
5	4	0	7	4	000.0682	1
5	4	0	8	5	000.2136	1
5	4	0	7	6	000.0268	1
5	4	0	2	7	000.0891	1
5	4	0	8	8	000.7475	1
5	4	0	7	9	000.5629	1
5	4	0	2	10	000.8187	1
5	4	0	8	11	000.0819	1
5	4	0	7	12	000.0588	1
5	4	0	7	13	000.0232	1
5	4	0	2	14	000.0797	1
5	4	0	8	15	000.0689	1
5	4	0	7	16	000.0522	1
5	4	0	7	17	000.0161	1
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5	4	0	2	25	000.7957	1
5	4	0	7	26	000.1332	1
5	4	0	7	27	000.0931	1
5	4	0	2	28	000.5087	1
5	4	0	7	29	000.0511	1

3	4	0	7	13	000.0020	1
3	4	0	7	14	000.0688	1
3	4	0	7	15	000.0520	1
3	4	0	8	16	000.3425	1
3	4	0	2	17	000.3252	1
3	4	0	7	18	000.0096	1
3	4	0	9	19	000.8647	1
3	4	1	0	0	094.4861	16
3	4	1	8	20	007.3512	16
3	4	1	7	21	005.1628	16
3	4	1	7	22	000.5117	16
3	4	1	7	23	000.1566	16
3	4	1	7	24	000.0733	16
3	4	1	7	25	000.2895	16
3	4	1	8	26	002.0978	16
3	4	1	8	27	003.2265	16
3	4	1	8	28	002.6418	16
3	4	1	7	29	001.2505	16
3	4	1	7	30	002.9463	16
3	4	1	7	31	001.6429	16
3	4	1	7	32	000.3504	16
3	4	1	7	33	000.0393	16
3	4	1	7	34	002.1462	16
3	4	1	8	35	003.9761	16
3	4	1	3	36	001.7235	16
3	4	1	2	37	026.7616	16
3	4	1	7	38	007.6635	16
3	4	1	7	39	000.1887	16
3	4	1	7	40	000.9221	16
3	4	1	5	41	000.2259	16
3	4	1	8	42	012.7384	16
3	4	1	1	43	010.3700	16
4	4	0	0	0	037.5406	1
4	4	0	7	1	000.0093	1
4	4	0	8	2	050.1113	1
4	4	0	9	3	013.2396	1
4	4	0	2	4	001.1449	1
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4	4	0	8	13	000.0386	1
4	4	0	7	14	000.0147	1
4	4	0	8	15	000.0709	1
4	4	0	7	16	000.0416	1
4	4	0	2	17	001.0304	1
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4	4	1	2	20	018.4352	16
4	4	1	4	21	000.4709	16
4	4	1	9	22	023.6435	16
4	4	1	7	23	000.3797	16
4	4	1	3	24	002.3955	16

6	4	0	7	24	000.0093	1
6	4	0	8	25	000.1968	1
6	4	0	7	26	000.1062	1
6	4	0	2	27	000.0698	1
6	4	0	8	28	000.0672	1
6	4	0	2	29	001.4490	1
6	4	0	7	30	000.0480	1
6	4	0	1	31	002.5937	1
6	4	1	0	0	049.7092	16
6	4	1	4	32	001.1590	16
6	4	1	9	33	002.7273	16
6	4	1	9	34	020.4322	16
6	4	1	2	35	006.0691	16
6	4	1	7	36	000.6844	16
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6	4	1	8	38	000.3397	16
6	4	1	1	39	006.1860	16
6	4	2	0	0	071.6195	16
6	4	2	7	40	003.0718	16
6	4	2	2	41	006.3791	16
6	4	2	8	42	015.6838	16
6	4	2	9	43	028.3272	16
6	4	2	7	44	000.4987	16
6	4	2	8	45	000.2747	16
6	4	2	4	46	000.2783	16
6	4	2	7	47	000.3475	16
6	4	2	1	48	017.3168	16
6	4	3	0	0	070.8278	16
6	4	3	9	49	001.0136	16
6	4	3	7	50	001.0245	16
6	4	3	7	51	000.4144	16
6	4	3	7	52	000.3194	16
6	4	3	7	53	000.0438	16
6	4	3	7	54	000.5256	16
6	4	3	2	55	010.8264	16
6	4	3	7	56	000.3458	16
6	4	3	8	57	014.9950	16
6	4	3	7	58	000.4759	16
6	4	3	8	59	000.0723	16
6	4	3	8	60	000.5166	16
6	4	3	7	61	000.3375	16
6	4	3	7	62	005.9026	16
6	4	3	8	63	004.6198	16
6	4	3	8	64	002.7661	16
6	4	3	9	65	023.0960	16
6	4	3	1	66	002.5536	16
6	4	3	1	67	000.3036	16
6	4	3	1	68	000.3291	16
7	4	0	0	0	032.0548	1
7	4	0	7	1	000.1330	1
7	4	0	8	2	000.0411	1
7	4	0	7	3	000.2114	1
7	4	0	8	4	000.0068	1
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7	4	0	7	6	000.0058	1
7	4	9	2	7	002.2872	1
7	4	0	7	8	000.1041	1
7	4	0	7	9	000.3620	1
7	4	0	8	10	000.2225	1

5	4	0	8	30	000.6132	1
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5	4	1	4	35	001.3222	16
5	4	1	9	36	017.7583	16
5	4	1	1	37	007.0523	16
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5	4	2	7	38	000.3441	16
5	4	2	2	39	002.9102	16
5	4	2	4	40	000.5996	16
5	4	2	3	41	004.1186	16
5	4	2	7	42	001.0394	16
5	4	2	7	43	000.0494	16
5	4	2	7	44	000.4054	16
5	4	2	7	45	000.7664	16
5	4	2	7	46	000.1069	16
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5	4	2	7	54	000.3615	16
5	4	2	7	55	000.0335	16
5	4	2	1	56	013.1429	16
5	4	2	1	57	002.2946	16
5	4	2	9	58	040.3260	16
5	4	2	5	59	000.5395	16
5	4	2	9	60	000.6265	16
5	4	2	7	61	000.2249	16
6	4	0	0	0	035.5166	1
6	4	0	2	1	000.0615	1
6	4	0	7	2	000.0843	1
6	4	0	8	3	000.4601	1
6	4	0	7	4	000.2419	1
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6	4	0	7	9	000.0118	1
6	4	0	7	10	000.0047	1
6	4	0	8	11	001.3134	1
6	4	0	7	12	003.3736	1
6	4	0	7	13	000.0522	1
6	4	0	8	14	000.6487	1
6	4	0	7	15	000.0928	1
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6	4	0	9	19	005.0199	1
6	4	0	9	20	002.8897	1
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6	4	0	7	22	000.0549	1
6	4	0	7	23	001.6209	1

8	4	0	7	22	000.1054	1
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8	4	0	7	24	000.1301	1
8	4	0	7	25	000.0618	1
8	4	0	2	26	001.5610	1
6	4	0	8	27	000.7945	1
8	4	0	8	28	000.0340	1
8	4	0	8	29	000.0333	1
8	4	0	7	30	001.0253	1
8	4	0	3	31	000.2260	1
8	4	0	7	32	000.0183	1
8	4	0	7	33	000.0687	1
8	4	0	9	34	000.1442	1
8	4	0	1	35	002.8744	1
8	4	0	7	36	000.1004	1
8	4	0	7	37	000.1218	1
8	4	0	7	38	000.2669	1
8	4	0	7	39	000.0387	1
8	4	0	7	40	000.0033	1
8	4	0	9	41	000.4874	1
8	4	0	2	42	001.1885	1
8	4	0	9	43	003.5188	1
8	4	0	7	44	000.0132	1
8	4	1	0	0	224.9591	16
8	4	1	7	45	000.0537	16
8	4	1	7	46	000.0812	16
8	4	1	8	47	003.5632	16
8	4	1	7	48	000.6657	16
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8	4	1	7	50	000.2903	16
8	4	1	8	51	003.6958	16
8	4	1	7	52	000.8858	16
8	4	1	7	53	000.1836	16
8	4	1	7	54	001.4897	16
8	4	1	8	55	017.9887	16
8	4	1	7	56	001.1841	16
8	4	1	8	57	054.3288	16
8	4	1	7	58	000.2094	16
8	4	1	7	59	000.2019	16
8	4	1	7	60	001.8424	16
8	4	1	8	61	001.1391	16
8	4	1	7	62	000.5602	16
8	4	1	7	63	000.2661	16
8	4	1	7	64	001.0053	16
8	4	1	7	65	000.6669	16
8	4	1	9	66	071.1296	16
8	4	1	7	67	000.3942	16
8	4	1	4	68	000.9350	16
8	4	1	7	69	008.4257	16
8	4	1	2	70	037.4328	16
8	4	1	1	71	016.1088	16
9	4	0	0	0	032.4582	1
9	4	0	7	1	000.0110	1
9	4	0	8	2	000.1574	1
9	4	0	7	3	000.0209	1
9	4	0	8	4	000.5361	1
9	4	0	7	5	000.0688	1
9	4	0	7	6	000.1306	1
9	4	0	7	7	000.2308	1

7	4	0	2	11	000.1662	1
7	4	0	7	12	000.0940	1
7	4	0	8	13	003.6785	1
7	4	0	7	14	000.1059	1
7	4	0	7	15	000.2366	1
7	4	0	8	16	000.0541	1
7	4	0	7	17	000.2295	1
7	4	0	8	18	000.5253	1
7	4	0	8	19	000.0246	1
7	4	0	7	20	000.2296	1
7	4	0	8	21	000.2570	1
7	4	0	8	22	000.0138	1
7	4	0	7	23	000.0195	1
7	4	0	7	24	000.0132	1
7	4	0	7	25	000.2664	1
7	4	0	8	26	000.2759	1
7	4	0	7	27	000.0257	1
7	4	0	8	28	000.1173	1
7	4	0	7	29	000.0783	1
7	4	0	7	30	000.0162	1
7	4	0	8	31	000.2668	1
7	4	0	8	32	000.2830	1
7	4	0	7	33	000.3687	1
7	4	0	2	34	002.6868	1
7	4	0	1	35	008.6937	1
7	4	0	9	36	003.6720	1
7	4	0	9	37	004.1563	1
7	4	1	0	0	031.1674	16
7	4	1	9	38	015.9086	16
7	4	1	6	39	000.8485	16
7	4	1	8	40	000.7662	16
7	4	1	7	41	000.1686	16
7	4	1	9	42	008.0722	16
7	4	1	5	43	001.2902	16
7	4	1	2	44	003.6416	16
7	4	1	1	45	000.5794	16
8	4	0	0	0	040.7479	1
8	4	0	0	0	040.7479	1
8	4	0	8	1	000.1645	1
8	4	0	8	2	000.1969	1
8	4	0	8	3	000.0407	1
8	4	0	8	4	000.0386	1
8	4	0	2	5	001.8188	1
8	4	0	8	6	003.8670	1
8	4	0	8	7	000.2311	1
8	4	0	7	8	000.0152	1
8	4	0	7	9	000.0465	1
8	4	0	8	10	000.0082	1
8	4	0	8	11	000.0446	1
8	4	0	7	12	000.4709	1
8	4	0	7	13	000.0414	1
8	4	0	7	14	000.0454	1
8	4	0	7	15	000.0349	1
8	4	0	8	16	000.0285	1
8	4	0	7	17	000.0830	1
8	4	0	7	18	000.0235	1
8	4	0	2	19	002.1066	1
8	4	0	1	20	004.8879	1
8	4	0	7	21	000.1200	1

		FLOW 4	
9	4	2 7 65 000.8871	16
9	4	2 8 66 015.0804	16
9	4	2 7 67 001.9510	16
9	4	2 8 68 022.9795	16
9	4	2 7 69 003.7693	16
9	4	2 8 70 005.6113	16
9	4	2 3 71 003.0749	16
9	4	2 9 72 011.1357	16
9	4	2 7 73 000.9518	16
9	4	2 4 74 000.0922	16
9	4	2 7 75 000.1934	16
9	4	2 7 76 002.3806	16
9	4	2 7 77 000.0539	16
9	4	2 7 78 000.3665	16
9	4	2 5 79 000.8557	16
9	4	2 1 80 011.0971	16
10	4	0 0 0 030.5603	1
10	4	0 7 1 000.0227	1
10	4	0 8 2 000.0295	1
10	4	0 8 3 000.0225	1
10	4	0 1 4 003.4217	1
10	4	0 1 5 000.8021	1
10	4	0 2 6 000.0394	1
10	4	0 9 7 000.2340	1
10	4	0 8 8 000.1701	1
10	4	0 7 9 000.1996	1
10	4	1 0 0 277.0621	16
10	4	1 7 10 000.8977	16
10	4	1 8 11 017.1835	16
10	4	1 7 12 001.3013	16
10	4	1 8 13 025.6895	16
10	4	1 7 14 000.0216	16
10	4	1 7 15 000.0210	16
10	4	1 2 16 006.1933	16
10	4	1 4 17 000.6210	16
10	4	1 7 18 000.7505	16
10	4	1 7 19 000.3230	16
10	4	1 1 20 051.1165	16
10	4	1 7 21 001.6626	16
10	4	1 7 22 000.8554	16
10	4	1 2 23 002.0917	16
10	4	1 4 24 000.6201	16
10	4	1 7 25 008.8274	16
10	4	1 3 26 001.7559	16
10	4	1 9 27 156.7689	16
10	4	2 0 0 145.6270	16
10	4	2 8 28 001.3168	16
10	4	2 7 29 004.1328	16
10	4	2 8 30 001.3030	16
10	4	2 8 31 001.3651	16
10	4	2 8 32 000.1192	16
10	4	2 7 33 000.3707	16
10	4	2 8 34 001.3056	16
10	4	2 7 35 000.0491	16
10	4	2 7 36 000.2417	16
10	4	2 7 37 000.1337	16
10	4	2 8 38 003.4339	16
10	4	2 7 39 000.4201	16
10	4	2 7 40 000.1288	16

		FLOW 4	
9	4	0 7 8 000.0069	1
9	4	0 7 9 000.0316	1
9	4	0 7 10 000.0899	1
9	4	0 2 11 001.4068	1
9	4	0 1 12 001.9293	1
9	4	0 7 13 000.0584	1
9	4	0 7 14 000.0439	1
9	4	0 7 15 000.0148	1
9	4	0 8 16 000.0466	1
9	4	0 2 17 000.2906	1
9	4	0 9 18 001.4906	1
9	4	0 7 19 000.0879	1
9	4	0 7 20 000.1006	1
9	4	0 7 21 000.0261	1
9	4	0 8 22 000.0309	1
9	4	0 1 23 003.4639	1
9	4	1 0 0 214.2113	16
9	4	1 8 24 004.0261	16
9	4	1 7 25 001.8236	16
9	4	1 8 26 004.5046	16
9	4	1 7 27 000.7553	16
9	4	1 2 28 009.2499	16
9	4	1 8 29 041.8675	16
9	4	1 7 30 000.8611	16
9	4	1 8 31 000.3791	16
9	4	1 7 32 000.6457	16
9	4	1 8 33 000.4477	16
9	4	1 7 34 000.9477	16
9	4	1 7 35 000.6428	16
9	4	1 3 36 009.7246	16
9	4	1 8 37 098.4292	16
9	4	1 7 38 001.2703	16
9	4	1 3 39 000.4634	16
9	4	1 7 40 000.1315	16
9	4	1 9 41 019.8706	16
9	4	1 7 42 000.3768	16
9	4	1 7 43 003.0188	16
9	4	1 7 44 000.4067	16
9	4	1 2 45 004.8068	16
9	4	1 46 009.5207	16
9	4	2 0 0 155.4093	16
9	4	2 7 47 000.0463	16
9	4	2 7 48 000.1985	16
9	4	2 7 49 000.0916	16
9	4	2 7 50 000.5844	16
9	4	2 7 51 000.1909	16
9	4	2 7 52 000.7619	16
9	4	2 8 53 014.0721	16
9	4	2 7 54 000.8600	16
9	4	2 7 55 005.0379	16
9	4	2 7 56 000.0847	16
9	4	2 7 57 000.0075	16
9	4	2 7 58 000.0237	16
9	4	2 7 59 000.0156	16
9	4	2 2 60 045.4120	16
9	4	2 8 61 001.3559	16
9	4	2 8 62 000.1404	16
9	4	2 7 63 002.7096	16
9	4	2 7 64 003.1349	16

FLOW 4

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11	4	0	4	61	000.0205	1
11	4	1	0	0	040.7396	16
11	4	1	6	40	000.1350	16
11	4	1	5	41	000.1154	16
11	4	1	7	42	000.1493	16
11	4	1	7	43	000.5200	16
11	4	1	9	44	004.2247	16
11	4	1	9	45	002.6786	16
11	4	1	7	46	004.0406	16
11	4	1	7	47	000.0477	16
11	4	1	7	48	000.2955	16
11	4	1	8	49	000.5993	16
11	4	1	8	50	000.0929	16
11	4	1	8	51	001.5018	16
11	4	1	7	52	003.9766	16
11	4	1	2	53	006.9474	16
11	4	1	1	54	009.8954	16
11	4	1	7	55	000.4010	16
11	4	1	9	56	002.3505	16
11	4	1	7	57	000.4800	16
11	4	1	5	58	000.1196	16
11	4	1	9	59	000.1581	16
12	4	0	0	0	020.7518	1
12	4	0	8	1	000.1375	1
12	4	0	7	2	000.0999	1
12	4	0	2	3	000.0895	1
12	4	0	7	4	000.0680	1
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12	4	0	7	17	000.0853	1
12	4	0	8	18	000.5790	1
12	4	0	7	19	000.0451	1
12	4	0	7	20	000.0447	1
12	4	0	7	21	000.0708	1
12	4	0	7	22	000.0269	1
12	4	0	7	23	000.0153	1
12	4	0	7	24	000.1570	1
12	4	0	2	25	001.5209	1
12	4	0	1	26	009.1612	1
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12	4	1	0	0	037.1737	16
12	4	1	4	30	000.1090	16
12	4	1	2	31	000.9138	16
12	4	1	9	32	015.6022	16
12	4	1	7	33	000.6748	16

FLOW 4

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10	4	2	7	42	000.2556	16
10	4	2	7	43	000.0966	16
10	4	2	7	44	000.1642	16
10	4	2	7	45	000.7282	16
10	4	2	7	46	000.7017	16
10	4	2	7	47	001.4212	16
10	4	2	7	48	000.7999	16
10	4	2	7	49	003.3352	16
10	4	2	7	50	000.0856	16
10	4	2	8	51	000.3391	16
10	4	2	7	52	000.5793	16
10	4	2	2	53	041.9448	16
10	4	2	8	54	028.0202	16
10	4	2	7	55	002.0905	16
10	4	2	7	56	000.1531	16
10	4	2	4	57	000.3840	16
10	4	2	9	58	040.5001	16
10	4	2	1	59	009.1852	16
10	4	2	7	60	000.2201	16
11	4	0	0	0	035.2661	1
11	4	0	8	1	001.2321	1
11	4	0	8	2	000.1625	1
11	4	0	8	3	000.1716	1
11	4	0	8	4	002.4274	1
11	4	0	8	5	000.3485	1
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11	4	0	7	10	000.1458	1
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11	4	0	7	12	000.0361	1
11	4	0	7	13	000.0272	1
11	4	0	7	14	000.0532	1
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11	4	0	3	25	000.0981	1
11	4	0	7	26	000.0285	1
11	4	0	3	27	000.0178	1
11	4	0	7	28	000.0093	1
11	4	0	1	29	007.2957	1
11	4	0	2	30	000.1898	1
11	4	0	1	31	001.0253	1
11	4	0	2	32	000.7316	1
11	4	0	7	33	000.1209	1
11	4	0	7	34	000.0506	1
11	4	0	2	35	000.0228	1
11	4	0	9	36	003.2157	1
11	4	0	9	37	008.8622	1
11	4	0	9	38	000.0441	1

14	4	0	8	3	001.9784	1
14	4	0	7	4	000.0267	1
14	4	0	7	5	000.0099	1
14	4	0	7	6	000.1105	1
14	4	0	8	7	000.2117	1
14	4	0	8	8	001.6490	1
14	4	0	7	9	000.0233	1
14	4	0	1	10	009.0010	1
14	4	0	7	11	000.2951	1
14	4	0	8	12	000.3475	1
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14	4	0	8	21	000.1884	1
14	4	0	7	22	000.1115	1
14	4	0	2	23	003.2801	1
14	4	0	9	24	002.0541	1
14	4	0	2	28	000.1503	1
14	4	1	0	0	011.4365	16
14	4	1	4	25	001.7948	16
14	4	1	2	26	000.5056	16
14	4	1	9	27	009.1169	16
15	4	0	0	0	019.9599	1
15	4	0	7	1	000.0444	1
15	4	0	2	2	000.0705	1
15	4	0	8	3	000.1407	1
15	4	0	7	4	000.0307	1
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15	4	0	8	8	000.5754	1
15	4	0	7	9	000.0470	1
15	4	0	1	10	009.5226	1
15	4	0	9	11	000.4655	1
15	4	0	9	12	006.4826	1
15	4	1	0	0	012.5674	16
15	4	1	4	13	000.3218	16
15	4	1	9	14	009.5018	16
15	4	1	1	15	002.7517	16
15	4	2	0	0	017.4165	16
15	4	2	4	16	001.4532	16
15	4	2	9	17	002.1753	16
15	4	2	9	18	008.5735	16
15	4	2	7	19	000.7330	16
15	4	2	7	20	000.4338	16
15	4	2	1	21	004.0370	16
16	4	0	0	0	025.7459	1
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16	4	0	8	2	001.5593	1
16	4	0	7	3	000.0179	1
16	4	0	8	4	000.0297	1
16	4	0	7	5	000.1345	1
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16	4	0	7	7	000.0325	1

12	4	1	7	34	000.0406	16
12	4	1	7	35	000.1574	16
12	4	1	7	36	000.0996	16
12	4	1	7	37	000.0545	16
12	4	1	7	38	000.1437	16
12	4	1	2	39	005.7945	16
12	4	1	7	40	001.2833	16
12	4	1	8	41	002.8430	16
12	4	1	7	42	001.4431	16
12	4	1	8	43	004.0938	16
12	4	1	1	44	004.5016	16
12	4	2	0	0	010.4016	16
12	4	2	6	45	000.0905	16
12	4	2	9	46	005.3423	16
12	4	2	1	47	005.0090	16
13	4	0	0	0	019.7516	1
13	4	0	8	1	000.0589	1
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13	4	0	1	3	001.8759	1
13	4	0	7	4	000.0913	1
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13	4	0	2	17	001.5014	1
13	4	0	1	18	006.1378	1
13	4	0	8	19	001.0221	1
13	4	0	7	20	000.1478	1
13	4	0	7	21	000.0242	1
13	4	0	7	22	000.0601	1
13	4	0	7	23	000.0144	1
13	4	0	8	24	000.8867	1
13	4	0	7	25	000.0930	1
13	4	0	2	26	001.6170	1
13	4	1	0	0	073.8255	16
13	4	1	1	27	032.8623	16
13	4	1	7	28	000.1321	16
13	4	1	7	29	001.3953	16
13	4	1	3	30	000.2430	16
13	4	1	9	31	013.4780	16
13	4	1	8	32	000.5005	16
13	4	1	7	33	000.9946	16
13	4	1	5	34	000.5990	16
13	4	1	7	35	000.0301	16
13	4	1	3	36	000.8875	16
13	4	1	8	37	001.3883	16
13	4	1	7	38	013.3223	16
13	4	1	9	39	009.6243	16
14	4	0	0	0	030.4436	1
14	4	0	9	1	008.7309	1
14	4	0	2	2	000.4752	1

		FLOW 4			
18	4	0	8	26	000.2055
18	4	0	7	27	000.0800
18	4	0	7	28	000.0798
18	4	0	8	29	000.0282
18	4	0	7	30	000.0490
18	4	0	7	31	000.0663
18	4	0	7	32	000.0118
18	4	0	1	33	010.6863
18	4	0	9	34	001.1207
18	4	0	8	35	000.0126
18	4	0	8	36	000.1350
18	4	0	7	37	000.0257
18	4	0	2	62	001.5275
18	4	1	0	0	103.3985
18	4	1	5	38	000.5664
18	4	1	7	39	000.1485
18	4	1	7	40	000.2651
18	4	1	6	41	000.7772
18	4	1	7	42	000.1671
18	4	1	8	43	017.6972
18	4	1	7	44	000.9939
18	4	1	8	45	002.9471
18	4	1	7	46	001.2577
18	4	1	8	47	006.2233
18	4	1	7	48	000.5126
18	4	1	7	49	000.1126
18	4	1	8	50	003.0198
18	4	1	4	51	000.7234
18	4	1	9	52	041.7413
18	4	1	7	53	000.1728
18	4	1	8	54	003.2886
18	4	1	2	55	023.0620
18	4	2	0	0	016.2954
18	4	2	2	56	003.0584
18	4	2	8	57	003.3873
18	4	2	7	58	005.1627
18	4	2	8	59	001.3841
18	4	2	5	60	000.6737
18	4	2	9	61	002.8917

		FLOW 4			
16	4	0	2	8	000.1125
16	4	0	2	9	000.6263
16	4	0	7	10	000.1490
16	4	0	7	11	000.0761
16	4	0	7	12	000.0805
16	4	0	1	13	008.9579
16	4	0	1	14	001.1012
16	4	0	9	22	011.1615
16	4	1	0	0	012.7598
16	4	1	1	15	006.0674
16	4	1	5	16	000.1113
16	4	1	6	17	000.1435
16	4	1	9	18	006.4376
16	4	2	0	0	012.7662
16	4	2	1	19	003.2113
16	4	2	4	20	000.5983
16	4	2	9	21	008.9524
17	4	0	0	0	011.0410
17	4	0	7	1	000.1082
17	4	0	7	2	000.0603
17	4	0	2	3	000.6191
17	4	0	4	4	000.1258
17	4	0	7	5	000.3356
17	4	0	7	6	000.1251
17	4	0	7	7	000.2364
17	4	0	7	8	000.0100
17	4	0	7	9	000.0048
17	4	0	7	10	000.1043
17	4	0	8	13	000.1365
17	4	0	7	14	000.1166
17	4	0	2	15	000.0382
17	4	0	8	16	000.2467
17	4	0	1	17	008.8291
18	4	0	0	0	024.7089
18	4	0	8	1	000.2436
18	4	0	7	2	000.1250
18	4	0	8	3	000.0152
18	4	0	7	4	000.0400
18	4	0	7	5	000.0800
18	4	0	7	6	000.1278
18	4	0	7	7	000.0243
18	4	0	7	8	000.0084
18	4	0	7	9	000.2094
18	4	0	8	10	000.2086
18	4	0	7	11	000.0701
18	4	0	7	12	000.0734
18	4	0	8	13	000.4637
18	4	0	7	14	000.0740
18	4	0	7	15	000.0266
18	4	0	8	16	000.0324
18	4	0	7	17	000.1280
18	4	0	7	18	000.0413
18	4	0	8	19	000.1486
18	4	0	7	20	000.2909
18	4	0	7	21	000.0176
18	4	0	7	22	000.3369
18	4	0	7	23	000.0126
18	4	0	7	24	000.0119
18	4	0	7	25	000.4708