

Engineering Report

**HYDROLOGY AND HYDRAULIC STUDY
FOR
WILLOWBEND SEVENTH ADDITION
DEVELOPMENT**

June 1992

**Mid-Kansas Engineering Consultants, Inc.
3500 North Rock Road # 800
Wichita, Kansas 67226**

Engineering Report
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I. Introduction

- A. General:** The following report outlines the hydrologic and hydraulic analyses that has been completed in conjunction with the design of the improvements for Willowbend Seventh. The development is located in the City of Wichita, Kansas. The area is generally between 37th Street North and 45th Street North, west of Rock Road.

This report will address the effect of the development on floodflow carried in the East Fork of Chisholm Creek and changes in the water surface profiles from those predicted in the 1986 Federal Emergency Management Agency (FEMA) Study. The FEMA report entitled "Flood Insurance Study" is dated May 15, 1986 and provides the basis for the City's flood insurance program.

- B. Basin Description:** The total drainage basin above the Willowbend 7th Addition is 2000 acres. The area is outlined on Figure 1. The basin is presently in the developing stages and can be expected to be fully developed in the next few year. A more detailed discussion of the basin is included in Section IV.

- C. Proposed Development:** The Willowbend Development consists of an area of approximately 540 acres that is being developed as residential housing. Living units consist of a combination of single family and patio homes. The present lakes that are on the property have been redeveloped and expanded to provide the focal point for the area.

The general layout for the development is provided in the appendix. The channel will be crossed at one point by Champions. Flow under the street crossing is carried by a multiple barrel reinforced concrete box (RCB).

- D. Purpose:** The purpose of this report is to (1) develop the hydrologic data for the basin, (2) develop water surface profiles for the existing development, (3) establish floodway limits for development of lots and building pads, and (4) provide the necessary information and calculations for a revision request to FEMA for an update of the information contained in the Flood Insurance Study.

II. FEMA STUDY

A. **The "Flood Insurance Study"** prepared by FEMA for the City of Wichita was accepted on May 15, 1986. The study was the culmination of work that was started by the U.S.G.S. in the middle of the 1970's. During the same time period, FEMA also compiled a similar study for Sedgwick County that covered the unincorporated areas of the county. The Willowbend Development Basin includes both areas in the City and County Studies.

B. **Hydrology and Methodology:** The hydrology for this report was from the completed May 15, 1986 report by FEMA.

In volume 1 of the "Flood Insurance Study" for the City of Wichita, the following information was presented concerning the discharges from the East Branch of Chisholm Creek.

Drainage Area= 3.12 sq. miles (at Section AN)

10 Year Flow = 1800

50 Year Flow = 2655

100 Year Flow= 3235

500 Year Flow= 4695

These flows were used to check the reach of channel surrounding Willowbend Seventh.

C. **Hydraulics:** The original water surface profiles in the FEMA report were developed by the HEC II computer program. The specific area under view in this study begins at FEMA-FIS cross-section 'AL' and proceeds upstream through FEMA-FIS cross-section 'AN'. These profiles produced the following elevations for the 100 year water surface in the vicinity of Willowbend Seventh.

TABLE I

FEMA Cross-Section	Distance	Water Surface Elevation (U.S.G.S.)	Channel Velocity (fps)
'AJ'	6.48	1362.53	1.3
'AK'	6.83	1363.5	3.5
'AL'	7.17	1366.2	4.3
'AM'	7.29	1367.3	3.6
'AN'	7.46	1368.1	4.1

With this development, the East Branch Chisholm Creek channel has been modified, and the floodway fringe has been shaped for the golf course and a portion filled for residential development.

The attached HEC-2 computer backwater run reflects the present topography between cross-section 'AL' and 'AN'. Cross-sections 'AJ' and 'AK' were taken from the FEMA-FIS HEC-2 run to re-established the FEMA backwater model. The discharges used were from the FEMA model.

The present conditions along the East Branch Chisholm Creek would reflect the encroached upon flood plain and would establish the 100-year flood plain elevation and the floodway elevation as the same.

TABLE II

FEMA Cross- Section	Distance	Water Surface Elevation (U.S.G.S.)	Channel Velocity (fps)
'AJ'	6.48	1362.25	1.3
'AK'	6.83	1362.46	3.5
'AL'	7.17	1363.49	4.3
'AM'	7.29	1365.78	3.6
'AN'	7.46	1368.22	4.1

* WATER SURFACE PROFILES *
* VERSION OF NOVEMBER 1976 *
* UPDATED MAY 1984 *
* IBM-PC-XT VERSION AUGUST 1985 *
* RUN DATE 05-11-92 TIME 15:27:03 *

* U.S. ARMY CORPS OF ENGINEERS *
* THE HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET, SUITE D *
* DAVIS, CALIFORNIA 95616 *
* (916) 449-2105 (FTS) 449-2105 *

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X   X   XXXXXXXX   XXXXX   XXXXX
X   X   X         X       X
X   X   X         X
XXXXXXXX XXXX   X       XXXXX   XXXXX
X   X   X         X       X
X   X   X         X       X
X   X   XXXXXXXX   XXXXX   XXXXXXXX

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NC		040	040	035	100	200	000	000	000	000	000
X1		2210	19100	92200	100000	1535000	1545000	1575000	000	000	000
GR		1365000	1350000	1355000	950000	1355000	950000	1352000	950000	1350000	950000
GR		1360000	983000	1359000	922000	1350000	1000000	1350000	1350000	1350000	950000
GR		1361000	1305000	1362000	1000000	1360000	1000000	1360000	1350000	1350000	950000
GR		1365000	1350000	1372000	1000000	1360000	1350000	1360000	1350000	1350000	950000
NC		040	040	040	000	000	000	000	000	000	000
X1		222	000	000	000	285000	285000	280000	000	000	000
GR		000	000	000	000	000	000	000	000	000	000
GR		000	000	000	000	000	000	000	000	000	000
GR		000	000	000	000	000	000	000	000	000	000
GR		000	000	000	000	000	000	000	000	000	000
GR		000	000	000	000	000	000	000	000	000	000
NC		040	040	030	000	000	000	000	000	000	000
X1		22300	25000	98000	100000	165000	160000	160000	000	000	000
GR		1372000	900000	1372000	905000	1371000	910000	1370000	916000	1369000	921000
GR		1368000	925000	1367000	935000	1366000	944000	1365000	955000	1364000	970000
GR		1363000	975000	1362000	979000	1361000	984000	1360500	986000	1360000	1000000
GR		1360500	1014000	1361000	1016000	1362000	1020000	1363000	1024000	1364000	1029000
GR		1365000	1033000	1366000	1037000	1367000	1048000	1368000	1051000	1369000	1073000
X1		92440	25000	970000	1030000	120000	125000	120000	000	000	000
GR		1372000	871000	1372000	903000	1371000	909000	1370000	914000	1369000	919000
GR		1368000	929000	1367000	935000	1366000	941000	1365000	949000	1364000	955000
GR		1363000	959000	1362000	963000	1361000	968000	1360700	970000	1360200	1000000
GR		1360700	1030000	1361000	1032000	1362000	1035000	1363000	1042000	1364000	1048000
GR		1365000	1055000	1366000	1062000	1367000	1075000	1368000	1091000	1369000	1122000
NC		035	035	020	100	300	000	000	000	000	000
X1		92550	21000	975000	1024000	230000	125000	120000	000	000	000
GR		1370000	930000	1369000	934000	1368000	938000	1367000	943000	1366000	948000
GR		1365000	954000	1364000	959000	1363000	964000	1362000	969000	1361000	974000
GR		1360700	975000	1360300	1000000	1360700	1024000	1361000	1026000	1362000	1029000
GR		1363000	1033000	1364000	1037000	1365000	1043000	1366000	1050000	1367000	1062000
GR		1368000	1077000	000	000	000	000	000	000	000	000
X1		92660	20000	974000	1026000	185000	185000	185000	000	000	000
GR		1369000	935000	1368000	939000	1367000	943000	1366000	947000	1365000	952000
GR		1364000	958000	1363000	963000	1362000	968000	1361000	972000	1360700	974000
GR		1360400	1000000	1360700	1026000	1361000	1028000	1362000	1030000	1363000	1035000
GR		1364000	1041000	1365000	1045000	1366000	1050000	1367000	1054000	1368000	1060000
X1		92770	20000	975000	1025000	185000	170000	180000	000	000	000
GR		1369000	940000	1368000	945000	1367000	949000	1366000	954000	1365000	958000
GR		1364000	962000	1363000	965000	1362000	970000	1361000	973000	1360800	975000
GR		1360500	1000000	1360800	1026000	1361000	1028000	1362000	1031000	1363000	1034000
GR		1364000	1035000	1365000	1040000	1366000	1043000	1367000	1046000	1368000	1054000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

#PROF 1

ACHV= .100 CEHV= .300
#SECNO 12.430

FEMA X-SECTION

12.43	7.95	1360.25	.00	1360.25	1360.27	.02	.00	.00	1358.20
1800.	0.	1520.	180.	0.	1335.	390.	0.	0.	1359.90
.00	.00	1.21	.46	.050	.050	.050	.000	1352.30	10009.03
.000194	290.	260.	260.	0	0	0	.00	458.37	10477.40

FLOW DISTRIBUTION FOR SECNO= 12.43 CWSEL= 1360.25

STA=	10009.	10207.	10211.	10330.	10430.	10477.
PER Q=	90.0	.1	6.4	3.0	.5	
AREA=	1334.6	5.8	220.2	130.0	34.4	
VEL=	1.2	.4	.5	.4	.3	

#SECNO 12.610

FEMA X-SECTION 'AJ'

12.61	7.49	1360.49	.00	.00	1360.53	.04	.25	.01	1361.80
1800.	0.	1800.	0.	0.	1099.	0.	31.	8.	1362.00
.15	.00	1.64	.00	.045	.050	.045	.000	1353.00	10208.94
.000388	920.	950.	950.	2	0	0	.00	234.06	10443.00

FLOW DISTRIBUTION FOR SECNO= 12.61 CWSEL= 1360.49

STA=	10209.	10450.
PER Q=	100.0	
AREA=	1099.1	
VEL=	1.6	

490 NH CARD USED

#SECNO 12.970

FEMA X-SECTION 'AK'

12.97	8.82	1361.62	.00	.00	1361.77	.14	1.21	.03	1355.30
1800.	1165.	634.	0.	450.	157.	0.	55.	15.	1363.00
.32	2.53	3.79	.00	.050	.045	.045	.000	1352.80	10215.61
.001575	1400.	1900.	1900.	2	0	0	.00	217.17	10432.78

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VR0B	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 12.97 CWSEL= 1361.62

STA=	10215.	10300.	10402.	10435.
PER Q=	6.3	58.5	35.2	
AREA=	85.5	374.9	167.3	
VEL=	1.3	2.8	3.8	

CCHV= .100 CERH= .200
*SECNO 92.110

92.11	6.41	1364.41	.00	.00	1364.84	.43	3.01	.05	1359.00
1800.	452.	621.	717.	113.	94.	155.	84.	22.	1359.00
.41	4.09	6.58	4.50	.040	.035	.040	.000	1359.00	951.17
.002271	1535.	1675.	1645.	2	0	0	.00	103.68	1054.85

FLOW DISTRIBUTION FOR SECNO= 92.11 CWSEL= 1364.41

STA=	951.	977.	989.	992.	1008.	1030.	1035.	1044.	1055.
PER Q=	7.5	5.7	12.5	34.5	30.6	4.7	4.0	.5	
AREA=	45.4	23.4	44.1	94.5	107.9	19.5	22.1	5.4	
VEL=	3.0	4.3	5.1	6.6	5.1	4.3	3.3	1.5	

*SECNO 92.220

92.22	6.62	1365.12	.00	.00	1365.97	.85	1.05	.08	1360.80
1800.	585.	602.	613.	100.	66.	91.	35.	23.	1360.80
.42	5.85	9.16	6.77	.040	.040	.040	.000	1358.50	943.75
.006899	285.	290.	285.	2	0	0	.00	95.51	1044.26

FLOW DISTRIBUTION FOR SECNO= 92.22 CWSEL= 1365.12

STA=	949.	974.	984.	991.	994.	1006.	1016.	1022.	1026.	1042.	1044.
PER Q=	8.1	8.5	10.2	5.7	33.4	18.9	8.7	3.4	3.1	.0	
AREA=	35.6	26.3	25.4	12.7	65.7	42.3	21.8	10.5	16.0	.1	
VEL=	4.1	5.9	7.2	8.1	9.2	8.1	7.2	5.8	3.5	.5	

*SECNO 92.330

92.33	5.88	1365.80	.00	.00	1365.62	.75	.64	.01	1360.60
1800.	313.	1235.	252.	82.	155.	60.	87.	23.	1360.60
.43	3.81	7.92	4.21	.040	.030	.040	.000	1360.00	945.43
.002592	165.	160.	150.	1	0	0	.00	91.05	1036.43

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLOH	XLOER	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 92.33 CWSEL= 1365.88

TA=	945.	975.	979.	984.	988.	1014.	1016.	1020.	1024.	1036.
PER Q=	5.1	3.1	6.1	3.1	68.5	3.1	4.8	3.1	3.0	
AREA=	35.6	13.5	21.8	10.1	156.0	10.1	17.5	13.5	18.8	
VEL=	2.5	4.2	5.0	5.5	7.9	5.5	5.0	4.2	2.8	

SECNO 92.440

001 HV CHANGED MORE THAN HVINS

92.44	6.41	1365.61	.00	.00	1365.80	.20	.12	.06	1360.70
1800.	130.	1425.	195.	88.	369.	99.	88.	24.	1360.70
.44	2.04	3.86	1.97	.040	.030	.040	.000	1360.20	937.36
.000537	120.	120.	125.	2	0	0	.00	132.52	1069.88

FLOW DISTRIBUTION FOR SECNO= 92.44 CWSEL= 1366.61

TA=	937.	963.	968.	970.	1000.	1035.	1042.	1055.	1070.
PER Q=	4.7	3.6	1.8	79.2	3.9	3.5	3.0	.4	
AREA=	51.4	25.5	11.5	369.4	26.8	28.7	33.4	10.1	
VEL=	1.6	2.5	2.7	3.9	2.6	2.2	1.6	.8	

CEHV= .100 CEHV= .300

SECNO 92.550

92.55	6.29	1366.59	.00	.00	1366.92	.33	.08	.04	1360.70
1800.	188.	1461.	151.	91.	293.	78.	90.	24.	1360.70
.45	2.07	4.99	1.94	.035	.020	.035	.000	1360.30	945.02
.000405	230.	170.	125.	2	0	0	.00	112.13	1057.15

FLOW DISTRIBUTION FOR SECNO= 92.55 CWSEL= 1366.59

TA=	945.	969.	974.	976.	1024.	1029.	1037.	1057.
PER Q=	5.2	3.5	1.7	81.2	3.8	3.2	1.4	
AREA=	53.9	25.5	11.5	292.5	26.8	28.8	22.4	
VEL=	1.7	2.5	2.7	5.0	2.6	2.0	1.1	

SECNO 92.650

92.65	6.31	1365.71	.00	.00	1365.99	.28	.07	.00	1360.70
1800.	171.	1481.	143.	90.	320.	79.	92.	24.	1360.70
.45	1.90	4.62	1.87	.035	.020	.035	.000	1360.40	944.15
.000342	185.	185.	185.	2	0	0	.00	103.59	1052.85

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QRQB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRQB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 92.66 CWSEL= 1366.71

STA=	944.	968.	974.	1026.	1036.	1053.
PER Q=	5.2	4.3	82.3	5.8	2.5	
AREA=	57.5	32.6	320.4	47.4	32.0	
VEL=	1.6	2.4	4.6	2.2	1.4	

*SECNO 92.770

92.77	6.25	1366.75	.00	.00	1367.07	.33	.07	.01	1360.80
1800.	149.	1526.	125.	73.	311.	60.	94.	25.	1360.80
.47	2.04	4.91	2.08	.035	.020	.035	.000	1360.50	950.27
.000392	185.	180.	170.	2	0	0	.00	94.97	1045.24

FLOW DISTRIBUTION FOR SECNO= 92.77 CWSEL= 1366.75

STA=	950.	970.	975.	1026.	1031.	1043.	1045.
PER Q=	4.3	3.9	84.8	3.9	3.0	.0	
AREA=	45.3	27.4	310.9	27.4	32.0	.8	
VEL=	1.7	2.5	4.9	2.6	1.7	.4	

*SECNO 92.880

92.88	6.15	1366.75	.00	.00	1367.12	.37	.04	.01	1360.80
1800.	183.	1515.	122.	72.	291.	56.	95.	25.	1360.80
.48	2.26	5.21	2.18	.035	.020	.035	.000	1360.80	953.74
.000446	85.	85.	85.	2	0	0	.00	88.52	1042.26

FLOW DISTRIBUTION FOR SECNO= 92.88 CWSEL= 1366.75

STA=	954.	970.	974.	976.	1024.	1028.	1037.	1042.
PER Q=	4.1	3.1	1.9	84.1	3.4	3.2	.2	
AREA=	39.4	21.0	11.7	290.6	22.2	29.3	4.6	
VEL=	1.9	2.7	2.9	5.2	2.7	2.0	.9	

CCHV= .300 CEHV= .500

*SECNO 928.800

928.80	6.87	1366.77	.00	.00	1367.14	.37	.02	.00	1372.20
1800.	0.	1800.	0.	0.	371.	0.	95.	25.	1372.70
.48	.00	4.85	.00	.035	.020	.035	.000	1359.90	973.00
.000442	50.	35.	30.	0	0	0	.00	54.00	1027.00

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VR0B	XNL	XNCH	XNR	WTN	ELMIN	SSTA
ELDFE	XLOBL	XLCH	XL0BR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 928.80 CWSEL= 1366.77

TA= 973. 1027.
 PER Q= 100.0
 AREA= 371.0
 VEL= 4.9

*SECNO 928.900

055 DIVIDED FLOW

070 NORMAL BRIDGE,NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

D/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

928.90	6.84	1366.74	.00	.00	1367.17	.43	.00	.03	1372.20
1800.	0.	1800.	0.	0.	342.	0.	95.	25.	1372.70
.48	.00	5.25	.00	.035	.015	.035	.000	1359.90	973.00
000656	2.	2.	2.	2	0	0	.00	50.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 928.90 CWSEL= 1366.74

TA= 973. 1027.
 PER Q= 100.0
 AREA= 342.0
 VEL= 5.3

*SECNO 929.100

065 DIVIDED FLOW

070 NORMAL BRIDGE,NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

U/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

929.10	5.89	1366.79	.00	.00	1367.21	.42	.04	.00	1372.20
1800.	0.	1800.	0.	0.	344.	0.	95.	25.	1372.70
.48	.00	5.23	.00	.035	.015	.035	.000	1359.90	973.00
000675	52.	52.	52.	1	0	0	.00	50.00	1027.00

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	YNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 929.10 CWSEL= 1366.79

STA= 973. 1027.
 PER Q= 100.0
 AREA= 344.1
 VEL= 5.2

*SECNO 929.200

929.20	6.98	1366.88	.00	.00	1367.24	.35	.00	.02	1372.20
1800.	0.	1800.	0.	0.	377.	0.	96.	25.	1372.70
.48	.00	4.77	.00	.035	.035	.035	.000	1359.90	973.00
.001285	2.	2.	2.	2	0	0	.00	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 929.20 CWSEL= 1366.88

STA= 973. 1027.
 PER Q= 100.0
 AREA= 377.1
 VEL= 4.9

*SECNO 929.800

001 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 633 PROBABLE MINIMUM SPECIFIC ENERGY
 7720 CRITICAL DEPTH ASSUMED

929.80	10.71	1370.81	1370.81	.00	1376.22	5.41	.12	2.53	1375.60
1800.	0.	1800.	0	0.	96.	0.	96.	25.	1375.60
.48	.00	18.67	.00	.035	.035	.035	.000	1360.10	995.50
.041543	32.	32.	32.	20	14	0	.00	9.00	1004.50

FLOW DISTRIBUTION FOR SECNO= 929.80 CWSEL= 1370.81

STA= 995. 1005.
 PER Q= 100.0
 AREA= 96.4
 VEL= 18.7

*SECNO 929.900

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	YNL	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3290 CROSS SECTION 929.90 EXTENDED .79 FEET

3301 HV CHANGED MORE THAN HVINS

3270 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

3585 20 TRIALS ATTEMPTED WSEL,CWSEL

3720 CRITICAL DEPTH ASSUMED

D/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

929.90	16.39	1376.49	1376.49	.00	1376.76	.27	.02	1.54	1375.60
1000.	710.	379.	710.	248.	53.	248.	95.	25.	1375.60
.48	2.86	7.15	2.86	.035	.020	.035	.000	1350.10	700.00
.005704	2.	2.	2.	20	9	0	-94.50	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 929.90 CWSEL= 1376.49

STA=	700.	956.	1005.	1300.
PER Q=	39.5	21.1	39.5	
AREA=	248.5	53.0	248.5	
VEL=	2.9	7.2	2.9	

*SECNO 930.100

3290 CROSS SECTION 930.10 EXTENDED 1.13 FEET

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

U/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

930.10	16.33	1376.83	.00	.00	1376.34	.11	.13	.05	1375.60
1000.	771.	257.	771.	349.	55.	349.	97.	26.	1375.60
.49	2.21	4.59	2.21	.035	.020	.035	.000	1350.50	700.00
.002190	40.	40.	40.	2	0	0	-90.90	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.10 CWSEL= 1376.83

STA=	700.	956.	1005.	1300.
PER Q=	42.9	14.3	42.9	
AREA=	348.6	55.1	348.6	
VEL=	2.2	4.5	2.2	

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	YNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

*SECNO 930.200
 3250 CROSS SECTION 930.20 EXTENDED 1.14 FEET

930.20	15.34	1375.84	.00	.00	1375.94	.10	.00	.00	1375.50
1800.	619.	562.	619.	350.	147.	350.	97.	26.	1375.50
.49	1.77	3.82	1.77	.035	.035	.035	.000	1350.50	700.00
.001390	2.	2.	2.	0	0	0	.00	500.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.20 CWSEL= 1375.84

STA=	700.	995.	1005.	1300.
PER Q=	34.4	31.2	34.4	
AREA=	350.2	147.0	350.2	
VEL=	1.8	3.8	1.8	

*SECNO 930.500

930.50	17.06	1376.96	.00	.00	1376.97	.01	.00	.03	1367.40
1800.	192.	1415.	192.	711.	1525.	711.	99.	26.	1367.40
.51	.27	.93	.27	.055	.030	.055	.000	1359.90	805.23
.000010	50.	50.	50.	2	0	0	.00	387.53	1193.77

FLOW DISTRIBUTION FOR SECNO= 930.50 CWSEL= 1376.96

STA=	805.	900.	950.	1050.	1100.	1194.
PER Q=	3.1	7.5	78.7	7.5	3.1	
AREA=	307.7	403.2	1525.4	403.2	307.7	
VEL=	.2	.3	.9	.3	.2	

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QRQB	ALOB	ACH	ARQB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRQB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2

CHV= .100 CEHV= .300
SECNO 12.430

FEMA X-SECTION

12.43	9.45	1361.75	.00	1361.75	1361.77	.02	.00	.00	1368.20
2655.	0.	2090.	565.	0.	1633.	1033.	0.	0.	1359.90
.00	.00	1.28	.55	.050	.050	.060	.000	1352.30	10007.33
.000167	290.	280.	260.	0	0	0	.00	1097.17	11104.50

FLOW DISTRIBUTION FOR SECNO= 12.43 CWSEL= 1361.75

STA=	10007.	10207.	10211.	10330.	10430.	10515.	11080.	11104.
PER Q=	78.7	.3	10.8	6.7	2.4	1.2	.0	
AREA=	1632.8	11.8	398.7	280.0	140.2	197.7	4.3	
VEL=	1.3	.6	.7	.6	.4	.2	.1	

*SECNO 12.610

FEMA X-SECTION 'AJ'

12.61	8.95	1361.95	.00	.00	1362.01	.05	.23	.01	1361.80
2655.	0.	2655.	0.	3.	1454.	0.	45.	15.	1362.00
.14	.11	1.83	.00	.045	.050	.045	.000	1353.00	10161.57
.000353	920.	950.	950.	2	0	0	.00	288.22	10449.79

LOW DISTRIBUTION FOR SECNO= 12.61 CWSEL= 1361.95

STA=	10162.	10200.	10450.
PER Q=	.0	100.0	
AREA=	3.0	1454.3	
VEL=	.1	1.8	

*90 NH CARD USED

*SECNO 12.970

FEMA X-SECTION 'AK'

12.97	10.13	1362.93	.00	.00	1363.06	.13	1.03	.02	1356.30
2655.	1904.	751.	0.	735.	209.	0.	93.	25.	1363.00
.31	2.59	3.60	.00	.049	.045	.045	.000	1352.80	10166.96
.001163	1400.	1900.	1900.	2	0	0	.00	267.92	10434.88

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 12.97 CWSEL= 1362.93

STA= 10167. 10200. 10300. 10402. 10435.

PER Q=	.4	14.9	56.4	28.3
AREA=	15.3	212.5	507.5	208.6
VEL=	.7	1.9	3.0	3.6

QCHV= .100 CEHV= .200

*SECNO 92.110

1280 CROSS SECTION 92.11 EXTENDED .26 FEET

92.11	7.26	1365.26	.00	.00	1365.84	.58	2.70	.09	1359.00
2655.	735.	842.	1078.	150.	108.	201.	119.	33.	1359.00
.38	4.89	7.79	5.36	.040	.035	.040	.000	1359.00	947.00
.002659	1535.	1675.	1645.	3	0	0	.00	123.05	1070.05

FLOW DISTRIBUTION FOR SECNO= 92.11 CWSEL= 1365.26

STA= 947. 969. 977. 983. 992. 1008. 1030. 1035. 1040. 1062. 1070.

PER Q=	4.7	5.2	5.8	12.0	31.7	29.4	4.8	3.2	3.2	.0
AREA=	39.7	30.1	28.6	51.8	108.2	126.7	23.8	18.8	30.7	1.0
VEL=	3.2	4.6	5.4	6.1	7.8	6.2	5.4	4.6	2.8	.5

*SECNO 92.220

92.22	7.60	1366.10	.00	.00	1367.02	.92	1.11	.07	1360.80
2655.	962.	748.	945.	145.	77.	137.	121.	33.	1360.80
.40	6.63	9.67	6.92	.040	.040	.040	.000	1358.50	945.60
.005180	285.	290.	285.	3	0	0	.00	115.99	1062.59

FLOW DISTRIBUTION FOR SECNO= 92.22 CWSEL= 1366.10

STA= 947. 974. 984. 991. 994. 1006. 1016. 1022. 1026. 1032. 1060. 1063.

PER Q=	12.1	9.3	9.7	5.1	28.2	17.2	8.3	3.6	3.2	3.2	.0
AREA=	61.2	36.0	32.2	15.6	77.4	52.0	27.6	14.4	15.6	26.8	.1
VEL=	5.2	5.8	8.0	8.8	9.7	8.8	8.0	6.7	5.5	3.2	.4

*SECNO 92.320

92.33	6.70	1366.70	.00	.00	1367.72	1.02	.63	.02	1360.60
2655.	545.	1700.	409.	119.	179.	82.	123.	34.	1360.60
.40	4.52	9.48	4.99	.040	.030	.040	.000	1360.00	937.65
.003083	165.	150.	150.	2	0	0	.00	107.11	1044.75

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOER	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 92.33 CWSEL= 1365.70

STA=	938.	970.	979.	984.	985.	1014.	1020.	1024.	1033.	1045.
PER Q=	5.5	6.0	6.0	3.0	64.0	7.7	3.3	3.8	.5	
AREA=	48.6	32.8	26.0	11.8	179.4	32.6	15.8	24.8	7.6	
VEL=	3.1	4.9	6.1	6.7	9.5	6.3	5.3	4.1	1.9	

*SECNO 92.440

3301 HV CHANGED MORE THAN HVINS

92.44	7.47	1367.67	.00	.00	1367.94	.27	.14	.07	1360.70
2655.	308.	2001.	345.	127.	433.	150.	124.	34.	1350.70
.41	2.43	4.62	2.31	.040	.030	.040	.000	1360.20	930.95
.000622	120.	120.	125.	2	0	0	.00	154.83	1055.78

FLOW DISTRIBUTION FOR SECNO= 92.44 CWSEL= 1367.67

STA=	931.	959.	959.	970.	1030.	1035.	1042.	1055.	1095.
PER Q=	4.2	5.7	1.7	75.4	3.8	3.8	3.9	1.5	
AREA=	61.5	51.5	13.5	433.4	32.2	36.2	47.3	34.1	
VEL=	1.8	2.9	3.3	4.6	3.1	2.8	2.2	1.2	

CCHV= .100 CEHV= .300

*SECNO 92.550

92.55	7.38	1367.63	.00	.00	1368.09	.46	.09	.06	1360.70
2655.	315.	2069.	270.	126.	342.	119.	127.	35.	1360.70
.42	2.51	6.04	2.26	.035	.020	.035	.000	1360.30	939.83
.000482	230.	170.	125.	2	0	0	.00	131.58	1071.51

FLOW DISTRIBUTION FOR SECNO= 92.55 CWSEL= 1367.63

STA=	940.	964.	974.	976.	1024.	1029.	1037.	1072.
PER Q=	4.0	6.2	1.7	77.9	3.8	3.6	2.8	
AREA=	55.8	56.3	13.5	342.4	32.0	37.1	50.4	
VEL=	1.9	2.9	3.3	6.0	3.1	2.6	1.5	

*SECNO 92.550

92.55	7.38	1367.73	.00	.00	1368.10	.41	.08	.01	1360.70
2655.	289.	2110.	255.	124.	375.	117.	129.	35.	1360.70
.43	2.33	5.61	2.19	.035	.020	.035	.000	1360.40	939.90
.000409	185.	185.	185.	2	0	0	.00	134.28	1074.18

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOB	XLOH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 92.66 CWSEL= 1367.78

TA=	940.	963.	972.	974.	1026.	1036.	1050.	1074.
PER Q=	4.0	5.3	1.6	79.5	6.0	3.3		.3
AREA=	58.7	51.5	13.9	375.8	58.1	45.9		12.9
VEL=	1.8	2.7	3.1	5.6	2.7	1.9		.7

SECNO 92.770

92.77	7.30	1367.80	.00	.00	1368.28	.48	.08	.02	1360.80
2655.	252.	2193.	209.	101.	365.	84.	132.	36.	1360.80
.44	2.49	6.01	2.50	.035	.020	.035	.000	1360.50	945.79
.000475	185.	180.	170.	2	0	0	.00	106.53	1052.42

FLOW DISTRIBUTION FOR SECNO= 92.77 CWSEL= 1367.80

TA=	945.	966.	973.	975.	1026.	1031.	1040.	1052.
PER Q=	3.4	4.4	1.7	82.6	3.9	3.4		.6
AREA=	47.4	40.1	13.8	354.8	32.7	37.7		13.4
VEL=	1.9	2.9	3.3	6.0	3.2	2.4		1.2

SECNO 92.880

92.88	7.20	1367.80	.00	.00	1368.34	.54	.04	.02	1360.80
2655.	270.	2180.	205.	97.	341.	77.	133.	35.	1360.80
.44	2.77	6.40	2.67	.035	.020	.035	.000	1360.50	949.79
.000543	85.	85.	85.	2	0	0	.00	95.52	1045.41

FLOW DISTRIBUTION FOR SECNO= 92.88 CWSEL= 1367.80

TA=	950.	970.	974.	976.	1024.	1028.	1037.	1045.
PER Q=	5.2	3.1	1.9	82.1	3.3	3.8		.6
AREA=	58.4	25.2	13.8	340.9	25.4	38.7		11.8
VEL=	2.3	3.3	3.6	6.4	3.4	2.6		1.4

CCHV= .300 CEHV= .500

SECNO 928.800

928.80	7.89	1367.79	.00	.00	1368.40	.60	.02	.03	1372.20
2655.	0.	2655.	0.	0.	426.	0.	133.	36.	1372.70
.44	.00	6.23	.00	.035	.020	.035	.000	1369.90	973.00
.000530	50.	35.	30.	2	0	0	.00	54.00	1027.00

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	YNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 928.80 CWSEL= 1367.79

STA= 973. 1027.
 PER Q= 100.0
 AREA= 426.2
 VEL= 5.2

*SECNO 928.900

265 DIVIDED FLOW

370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

D/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

928.90	7.84	1367.74	.00	.00	1368.45	.71	.00	.05	1372.20
2655.	0.	2655.	0.	0.	392.	0.	133.	36.	1372.70
.44	.00	5.77	.00	.035	.015	.035	.000	1359.90	973.00
.001655	2.	2.	2.	2	0	0	.00	50.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 928.90 CWSEL= 1367.74

STA= 973. 1027.
 PER Q= 100.0
 AREA= 392.0
 VEL= 5.8

*SECNO 929.100

265 DIVIDED FLOW

370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

U/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

929.10	7.92	1367.82	.00	.00	1368.52	.70	.06	.00	1372.20
2655.	0.	2655.	0.	0.	395.	0.	134.	36.	1372.70
.45	.00	5.70	.00	.035	.015	.035	.000	1359.90	973.00
.001027	62.	62.	62.	2	0	0	.00	50.00	1027.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QRQB	ALOB	ACH	ARQB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOB	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENOST

LOW DISTRIBUTION FOR SECNO= 929.10 CWSEL= 1367.82

TA= 973. 1027.
 PER Q= 100.0
 AREA= 395.2
 VEL= 6.7

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
929.20	8.09	1367.99	.00	.00	1368.56	.57	.00	.04	1372.20
2555.	0.	2555.	0.	0.	437.	0.	134.	35.	1372.70
.45	.00	6.08	.00	.035	.035	.035	.000	1359.90	973.00
.001791	2.	2.	2.	2	0	0	.00	54.00	1027.00

LOW DISTRIBUTION FOR SECNO= 929.20 CWSEL= 1367.99

TA= 973. 1027.
 PER Q= 100.0
 AREA= 435.7
 VEL= 6.1

SECNO 929.800

001 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 893 PROBABLE MINIMUM SPECIFIC ENERGY
 720 CRITICAL DEPTH ASSUMED

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
929.80	13.88	1373.98	1373.98	.00	1380.99	7.01	.15	3.22	1375.60
2555.	0.	2555.	0.	0.	125.	0.	134.	35.	1375.60
.45	.00	21.25	.00	.035	.035	.035	.000	1360.10	995.50
.045043	32.	32.	32.	20	14	0	.00	9.00	1004.50

LOW DISTRIBUTION FOR SECNO= 929.80 CWSEL= 1373.98

TA= 995. 1005.
 PER Q= 100.0
 AREA= 124.9
 VEL= 21.3

SECNO 929.900

SECNO	DEPTH	CWSEL	CRIVS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VR0B	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOB	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3280 CROSS SECTION 929.90 EXTENDED .87 FEET

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

3385 20 TRIALS ATTEMPTED WSEL, CWSEL

3720 CRITICAL DEPTH ASSUMED

D/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

929.90	15.47	1375.57	1375.57	.00	1377.00	.45	.04	1.97	1375.60
2655.	1075.	505.	1075.	272.	54.	272.	134.	36.	1375.60
.45	3.95	9.40	3.95	.035	.020	.035	.000	1360.10	700.00
.009729	2.	2.	2.	20	9	0	-94.50	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 929.90 CWSEL= 1375.57

STA=	700.	995.	1005.	1300.
PER Q=	40.5	19.0	40.5	
AREA=	271.9	53.7	271.9	
VEL=	4.0	9.4	4.0	

3380 SECNO 930.100

3280 CROSS SECTION 930.10 EXTENDED 1.45 FEET

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

U/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

930.10	16.65	1377.15	.00	.00	1377.29	.14	.17	.10	1375.60
2655.	1184.	286.	1184.	445.	59.	445.	135.	37.	1375.60
.45	2.66	4.85	2.66	.035	.020	.035	.000	1360.50	700.00
.002286	40.	40.	40.	2	0	0	-90.90	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.10 CWSEL= 1377.15

STA=	700.	995.	1005.	1300.
PER Q=	44.6	10.8	44.6	
AREA=	445.3	59.0	445.3	
VEL=	2.7	4.8	2.7	

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	YNL	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IOC	ICONT	CORAR	TOPWID	ENDST

SECNO 930.200
 3280 CROSS SECTION 930.20 EXTENDED 1.46 FEET

930.20	16.67	1377.17	.00	.00	1377.30	.13	.00	.00	1375.60
2655.	1012.	631.	1012.	447.	150.	447.	135.	37.	1375.60
.45	2.25	4.21	2.25	.035	.035	.035	.000	1360.50	700.00
.001643	2.	2.	2.	0	0	0	.00	500.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.20 CWSEL= 1377.17

STA= 700. 995. 1005. 1300.
 PER Q= 38.1 23.8 38.1
 AREA= 447.4 150.0 447.4
 VEL= 2.3 4.2 2.3

SECNO 930.500

930.50	17.41	1377.31	.00	.00	1377.33	.02	.00	.03	1367.40
2655.	295.	2065.	295.	761.	1561.	761.	137.	37.	1367.40
.45	.39	1.32	.39	.055	.030	.055	.000	1359.90	901.29
.000019	50.	50.	50.	2	0	0	.00	397.41	1198.71

FLOW DISTRIBUTION FOR SECNO= 930.50 CWSEL= 1377.31

STA= 801. 900. 950. 1050. 1100. 1199.
 PER Q= 3.4 7.7 77.8 7.7 3.4
 AREA= 341.0 420.5 1560.9 420.5 341.0
 VEL= .3 .5 1.3 .5 .3

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOER	ITRIAL	IEC	ICONT	CORAR	TOPWID	ENDST

*PROF 3

CEHV= .100 CEHV= .300
 *SECNO 12.430

FEMA X-SECTION

12.43	9.95	1362.25	.00	1362.25	1362.27	.02	.00	.00	1368.20
3235.	0.	2367.	868.	0.	1733.	1430.	0.	0.	1359.90
.00	.00	1.37	.58	.050	.050	.050	.000	1352.30	10005.75
.000177	290.	250.	250.	0	0	0	.00	1132.74	11139.50

FLOW DISTRIBUTION FOR SECNO= 12.43 CWSEL= 1362.25

STA=	10007.	10207.	10211.	10330.	10430.	10515.	11030.	11139.
PER Q=	73.2	.3	11.5	7.4	3.1	4.4	.1	
AREA=	1732.8	13.8	458.2	330.0	182.7	480.2	25.3	
VEL=	1.4	.7	.8	.7	.5	.3	.2	

*SECNO 12.610

FEMA X-SECTION 'AJ'

12.61	9.46	1362.46	.00	.00	1362.53	.06	.24	.01	1351.80
3235.	22.	3212.	2.	63.	1582.	6.	53.	19.	1362.00
.13	.34	2.03	.25	.045	.050	.045	.000	1353.00	9995.62
.000401	920.	950.	950.	2	0	0	.00	480.89	10476.51

1.96

1651

FLOW DISTRIBUTION FOR SECNO= 12.61 CWSEL= 1362.46

STA=	9996.	10100.	10200.	10450.	10477.
PER Q=	.1	.6	99.3	0	
AREA=	16.5	46.4	1581.8	6.2	
VEL=	.2	.4	2.0	.2	

490 NH CARD USED

*SECNO 12.970

FEMA X-SECTION 'AK'

12.97	10.59	1363.49	.00	.00	1363.63	.14	1.08	.02	1356.00
3235.	2382.	852.	0.	874.	227.	1.	108.	32.	1363.00
.29	2.73	3.75	.39	.049	.045	.050	.000	1352.80	10146.80
.001132	1400.	1900.	1900.	2	0	0	.00	290.64	10437.45

2.94

1102

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VR0B	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IOC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 12.97 CWSEL= 1363.49

STA=	10147.	10200.	10300.	10402.	10435.	10437.
PER Q=	1.1	17.9	54.7	26.3	.0	
AREA=	39.6	269.0	565.0	227.3	.6	
VEL=	.9	2.1	3.1	3.8	.4	

QCHV= .100 QEHV= .200

*SECNO 92.110
8280 CROSS SECTION 92.11 EXTENDED .78 FEET

8201 HV CHANGED MORE THAN HVINS

92.11	7.78	1365.78	.00	.00	1366.44	.66	2.70	.10	1359.00
3235.	925.	976.	1334.	174.	116.	237.	137.	39.	1359.00
.36	5.33	8.38	5.62	.040	.035	.040	.000	1358.00	947.00
002793	1535.	1575.	1645.	3	0	0	.00	139.12	1086.12

6.13

527

FLOW DISTRIBUTION FOR SECNO= 92.11 CWSEL= 1365.78

STA=	947.	969.	977.	983.	992.	1008.	1030.	1035.	1040.	1050.	1086.
PER Q=	5.8	6.4	5.8	11.6	30.2	28.5	4.8	3.4	3.1	1.4	
AREA=	51.1	34.2	31.7	56.5	116.5	138.1	26.4	21.4	26.8	24.7	
VEL=	3.6	5.1	5.9	6.7	8.4	6.7	5.9	5.1	3.3	1.8	

*SECNO 92.220

92.22	8.16	1366.66	.00	.00	1367.61	.95	1.12	.06	1360.80
3235.	1208.	834.	1193.	172.	84.	172.	140.	40.	1360.80
.37	7.02	9.92	6.93	.040	.040	.040	.000	1358.50	944.37
005828	285.	290.	285.	3	0	0	.00	132.72	1077.09

FLOW DISTRIBUTION FOR SECNO= 92.22 CWSEL= 1366.66

STA=	944.	974.	984.	991.	994.	1006.	1016.	1022.	1025.	1032.	1042.	1077.
PER Q=	13.7	9.4	9.4	4.9	25.8	15.2	8.0	3.7	3.5	3.1	2.2	
AREA=	77.1	41.6	35.1	17.3	84.1	57.6	30.9	15.6	18.9	21.6	26.4	
VEL=	5.8	7.3	8.4	9.1	9.9	9.1	8.4	7.2	6.0	4.7	2.7	

*SECNO 92.330

92.33	7.17	1367.17	.00	.00	1368.36	1.18	.70	.05	1360.60
3235.	719.	1992.	524.	143.	193.	98.	142.	41.	1360.60
.37	5.03	10.35	5.37	.040	.030	.040	.000	1350.00	933.24
003343	165.	160.	160.	2	0	0	.00	117.64	1050.28

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	YNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 92.33 CWSEL= 1367.17

STA=	933.	970.	979.	984.	986.	1014.	1020.	1024.	1033.	1050.
PER Q=	7.2	6.3	5.9	2.9	61.6	7.6	3.4	4.2	1.0	
AREA=	64.8	37.1	28.4	12.8	192.5	35.5	18.7	29.1	14.3	
VEL=	3.6	5.5	6.7	7.3	10.3	6.9	5.9	4.7	2.2	

*SECNO 92.440

001 HV CHANGED MORE THAN HVINS

92.44	8.08	1368.28	.00	.00	1368.60	.32	.15	.09	1360.70
3235.	403.	2367.	454.	152.	470.	189.	144.	41.	1360.70
.38	2.65	5.04	2.45	.040	.030	.040	.000	1360.20	926.14
.000664	120.	120.	125.	2	0	0	.00	187.07	1113.20

FLOW DISTRIBUTION FOR SECNO= 92.44 CWSEL= 1368.28

STA=	926.	955.	963.	968.	970.	1030.	1035.	1042.	1055.	1113.
PER Q=	3.5	3.7	3.6	1.7	73.2	3.7	3.8	4.3	2.5	
AREA=	60.9	42.3	33.9	14.9	470.2	35.2	40.5	55.2	58.5	
VEL=	1.9	2.9	3.4	3.6	5.0	3.4	3.1	2.5	1.4	

CHV= .100 CEHV= .300

*SECNO 92.550

0260 CROSS SECTION 92.55 EXTENDED .23 FEET

92.55	7.92	1368.22	.00	.00	1368.77	.55	.10	.07	1360.70
3235.	408.	2450.	366.	148.	371.	150.	147.	42.	1360.70
.09	2.76	6.64	2.45	.035	.020	.035	.000	1360.30	937.10
.000522	230.	170.	125.	2	0	0	.00	139.90	1077.00

4.84

669

FLOW DISTRIBUTION FOR SECNO= 92.55 CWSEL= 1368.22

STA=	937.	954.	974.	975.	1024.	1029.	1037.	1062.	1077.
PER Q=	4.7	6.3	1.7	76.1	3.7	3.7	-3.6	.3	
AREA=	71.0	62.3	14.8	370.8	34.9	41.8	62.1	10.9	
VEL=	2.1	3.3	3.6	6.6	3.5	2.9	1.9	.8	

*SECNO 92.660

SECNO	DEPTH	CWSEL	CRIVS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPVID	ENDST

3280 CROSS SECTION 92.66 EXTENDED .38 FEET

92.66	7.98	1368.38	.00	.00	1368.86	.48	.09	.01	1360.70
3235.	375.	2515.	345.	145.	497.	149.	150.	42.	1360.70
.40	2.58	6.17	2.32	.035	.020	.035	.000	1360.40	937.85
.000444	185.	185.	185.	2	0	0	.00	142.15	1080.00

FLOW DISTRIBUTION FOR SECNO= 92.66 CWSEL= 1368.38

STA=	938.	963.	972.	974.	1025.	1035.	1050.	1080.
PER Q=	4.7	5.3	1.6	77.7	6.0	3.8	.9	
AREA=	73.4	56.9	15.1	407.3	64.1	54.4	30.5	
VEL=	2.1	3.0	3.4	6.2	3.0	2.2	.9	

SECNO 92.770

3280 CROSS SECTION 92.77 EXTENDED .40 FEET

92.77	7.90	1368.40	.00	.00	1368.98	.58	.09	.03	1360.80
3235.	330.	2532.	274.	120.	395.	100.	152.	43.	1360.80
.41	2.75	6.55	2.73	.035	.020	.035	.000	1360.50	943.01
.000524	185.	180.	170.	2	0	0	.00	110.99	1054.00

FLOW DISTRIBUTION FOR SECNO= 92.77 CWSEL= 1368.40

STA=	943.	966.	973.	975.	1025.	1031.	1040.	1054.
PER Q=	4.0	4.4	1.7	81.4	3.9	3.6	1.0	
AREA=	60.3	44.3	15.0	395.2	35.7	43.1	21.6	
VEL=	2.2	3.2	3.7	6.7	3.5	2.7	1.4	

SECNO 92.880

3280 CROSS SECTION 92.88 EXTENDED .40 FEET

92.88	7.79	1368.39	.00	.00	1368.05	.66	.05	.02	1360.80
3235.	347.	2621.	266.	113.	369.	90.	153.	43.	1360.80
.41	3.06	7.10	2.96	.035	.020	.035	.000	1360.50	947.83
.000602	85.	85.	85.	2	0	0	.00	99.34	1047.17

5.65

572

FLOW DISTRIBUTION FOR SECNO= 92.88 CWSEL= 1368.39

STA=	948.	966.	974.	976.	1024.	1028.	1034.	1047.
PER Q=	3.3	5.6	1.8	81.0	3.3	3.1	1.8	
AREA=	47.4	51.1	15.0	369.1	28.8	32.3	28.9	
VEL=	2.3	3.5	4.0	7.1	3.7	3.1	2.0	

SECNO	DEPTH	CWSEL	CRWS	WSELK	ES	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	GROR	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CHV= .300 CEHV= .500

*SECNO 928.800

928.80	8.45	1368.36	.00	.00	1369.13	.78	.02	.06	1372.20
3235.	0.	3235.	0.	0.	457.	0.	154.	43.	1372.70
.41	.00	7.09	.00	.035	.020	.035	.000	1359.90	973.00
.000759	50.	35.	30.	2	0	0	.00	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 928.80 CWSEL= 1368.36

STA= 973. 1027.

PER Q= 100.0

AREA= 456.6

VEL= 7.1

*SECNO 928.900

370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

O/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

928.90	8.34	1368.24	.00	.00	1369.26	1.02	.00	.12	1372.20
3235.	0.	3235.	0.	0.	400.	0.	154.	43.	1372.70
.41	.00	8.09	.00	.035	.015	.035	.000	1359.90	973.00
.002298	2.	2.	2.	2	0	0	-18.33	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 928.90 CWSEL= 1368.24

STA= 973. 1027.

PER Q= 100.0

AREA= 400.0

VEL= 8.1

*SECNO 929.100

370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

O/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

929.10	8.48	1368.38	.00	.00	1369.40	1.02	.14	.00	1372.20
3235.	0.	3235.	0.	0.	400.	0.	155.	43.	1372.70
.42	.00	8.09	.00	.035	.015	.035	.000	1359.90	973.00
.002298	52.	52.	52.	2	0	0	-26.02	54.00	1027.00

SECNO	DEPTH	CWSEL	CRIVS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	YNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPUID	ENDST

FLOW DISTRIBUTION FOR SECNO= 929.10 CWSEL= 1368.38

STA= 973. 1027.

PER Q= 100.0
 AREA= 400.0
 VEL= 8.1

SECNO 929.200

929.20	8.89	1358.79	.00	.00	1369.50	.70	.00	.09	1372.20
3235.	0.	3235.	0.	0.	480.	0.	155.	43.	1372.70
.42	.00	6.73	.00	.035	.035	.035	.000	1359.90	973.00
001995	2.	2.	2.	2	0	0	.00	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 929.20 CWSEL= 1368.79

STA= 973. 1027.

PER Q= 100.0
 AREA= 480.3
 VEL= 6.7

SECNO 929.800

200 CROSS SECTION 929.80 EXTENDED .88 FEET

3695 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 20 CRITICAL DEPTH ASSUMED

929.80	15.48	1376.58	1376.58	.00	1377.18	.60	.11	.03	1375.60
3235.	965.	1306.	965.	275.	148.	275.	155.	44.	1375.60
.42	3.50	8.80	3.50	.035	.035	.035	.000	1360.10	700.00
007489	32.	32.	32.	20	36	0	.00	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 929.80 CWSEL= 1376.58

STA= 700. 995. 1005. 1300.

PER Q= 29.8 40.4 29.8
 AREA= 275.6 148.3 275.6
 VEL= 3.5 8.8 3.5

SECNO 929.900

200 CROSS SECTION 929.90 EXTENDED .89 FEET

06-11-92 15:27:04

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QR08	ALOB	ACH	AROE	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VR08	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

D/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

929.90	15.49	1375.59	1375.59	.00	1377.23	.64	.02	.02	1375.60
3235.	1318.	599.	1318.	278.	54.	278.	155.	44.	1375.60
.42	4.73	11.10	4.73	.035	.020	.035	.000	1350.10	700.00
.013515	2.	2.	2.	1	9	0	-94.50	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 929.90 CWSEL= 1375.59

STA=	700.	995.	1095.	1300.
PER Q=	40.7	18.5	40.7	
AREA=	278.4	53.9	278.4	
VEL=	4.7	11.1	4.7	

SECNO 930.100

2200 CROSS SECTION 930.10 EXTENDED 1.71 FEET

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

U/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

930.10	15.91	1377.41	.00	.00	1377.55	.14	.17	.15	1375.60
3235.	1471.	292.	1471.	520.	61.	520.	155.	44.	1375.60
.42	2.83	4.77	2.83	.035	.020	.035	.000	1350.50	700.00
.002100	40.	40.	40.	2	0	0	-30.90	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.10 CWSEL= 1377.41

STA=	700.	995.	1095.	1300.
PER Q=	45.5	9.0	45.5	
AREA=	520.5	61.3	520.5	
VEL=	2.8	4.8	2.8	

SECNO 930.200

2200 CROSS SECTION 930.20 EXTENDED 1.72 FEET

930.20	15.93	1377.43	.00	.00	1377.55	.13	.00	.00	1375.60
3235.	1298.	640.	1298.	524.	152.	524.	155.	44.	1375.60
.42	2.48	4.20	2.48	.035	.035	.035	.000	1350.50	700.00
.001602	2.	2.	2.	0	0	0	.00	600.00	1300.00

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QR0B	AL0B	ACH	AR0B	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VR0B	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 930.20 CWSEL= 1377.43

STA=	700.	996.	1005.	1300.
PER Q=	40.1	19.8	40.1	
AREA=	523.6	152.3	523.6	
VEL=	2.5	4.2	2.5	

SECNO 930.500

3280 CROSS SECTION 930.50 EXTENDED .16 FEET

930.50	17.66	1377.56	.00	.00	1377.59	.03	.00	.03	1367.40
3235.	371.	2493.	371.	799.	1586.	799.	158.	45.	1367.40
.43	.46	1.57	.46	.055	.030	.055	.000	1359.90	800.00
000026	50.	50.	50.	2	0	0	.00	400.00	1200.00

FLOW DISTRIBUTION FOR SECNO= 930.50 CWSEL= 1377.56

STA=	800.	900.	950.	1050.	1100.	1200.
PER Q=	3.7	7.8	77.1	7.8	3.7	
AREA=	366.3	433.1	1566.3	433.1	366.3	
VEL=	.3	.6	1.6	.6	.3	

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 4

(CHV= .100 CEHV= .300
 #SECNO 12.430

FEMA X-SECTION

12.43	10.80	1363.10	.00	1363.10	1363.13	.03	.00	.00	1358.20
4695.	0.	3014.	1681.	0.	1903.	2308.	0.	0.	1359.90
.00	.00	1.58	.73	.050	.050	.050	.000	1352.30	10005.90
.000211	290.	230.	250.	0	0	0	.00	1193.20	11199.00

FLOW DISTRIBUTION FOR SECNO= 12.43 CWSEL= 1363.10

STA=	10005.	10207.	10211.	10330.	10430.	10515.	11090.	11199.
PER Q=	64.2	.3	12.0	8.2	4.1	10.5	.7	
AREA=	1903.4	17.2	559.3	415.0	255.0	960.5	101.1	
VEL=	1.6	.9	1.0	.9	.7	.5	.3	

#SECNO 12.610

FEMA X-SECTION 'AJ'

12.61	10.35	1363.35	.00	.00	1363.44	.09	.29	.02	1361.80
4695.	215.	4450.	30.	271.	1803.	52.	69.	19.	1362.00
.11	.79	2.47	.57	.045	.050	.045	.000	1353.00	9304.96
.000498	920.	950.	950.	2	0	0	.00	592.21	10527.17

FLOW DISTRIBUTION FOR SECNO= 12.61 CWSEL= 1363.35

STA=	9935.	10000.	10100.	10200.	10450.	10527.
PER Q=	.3	1.7	2.6	94.8	.6	
AREA=	30.9	105.1	135.1	1803.5	52.1	
VEL=	.4	.8	.9	2.5	.6	

490 NH CARD USED

#SECNO 12.970

265 DIVIDED FLOW

FEMA X-SECTION 'AK'

12.97	11.73	1364.53	.00	.00	1364.71	.18	1.24	.03	1355.30
4695.	3572.	1099.	24.	1159.	262.	48.	139.	40.	1363.00
.25	3.08	4.20	.50	.048	.045	.050	.000	1352.80	10109.57
.001177	1400.	1900.	1900.	2	0	0	.00	510.95	10550.45

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOB	XLOH	XLOBR	ITRIAL	IOC	IOCNT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 12.97 CWSEL= 1364.53

TA= 10110. 10200. 10300. 10402. 10435. 10550.

PER Q=	3.2	21.7	51.2	23.4	.5
AREA=	114.5	373.2	671.4	251.7	48.3
VEL=	1.3	2.7	3.5	4.2	.5

CEHV= .100 CEHV= .200

SECNO 92.110

280 CROSS SECTION 92.11 EXTENDED 1.97 FEET

001 HV CHANGED MORE THAN HVINS

92.11	8.87	1366.87	.00	.00	1367.67	.80	2.83	.12	1359.00
4695.	1384.	1274.	2035.	223.	134.	341.	179.	53.	1359.00
.32	6.22	9.52	5.97	.040	.035	.040	.000	1358.00	947.00
002990	1535.	1675.	1645.	3	0	0	.00	173.74	1120.74

FLOW DISTRIBUTION FOR SECNO= 92.11 CWSEL= 1366.87

TA= 947. 961. 969. 977. 983. 992. 1008. 1030. 1035. 1040. 1050. 1093. 1121.

PER Q=	3.4	4.0	5.7	5.6	10.8	27.1	26.5	4.7	3.5	3.9	4.4	.3
AREA=	40.1	34.9	42.9	38.2	66.3	133.9	162.1	31.8	26.8	37.7	70.8	12.0
VEL=	3.9	5.4	6.2	6.9	7.7	9.5	7.7	6.9	6.1	4.9	2.9	1.2

SECNO 92.220

92.22	9.30	1367.80	.00	.00	1368.83	1.03	1.11	.05	1360.80
4695.	1791.	1021.	1883.	232.	98.	267.	183.	54.	1360.80
.33	7.71	10.44	7.04	.040	.040	.040	.000	1358.50	930.16
005265	285.	290.	285.	2	0	0	.00	159.94	1098.10

FLOW DISTRIBUTION FOR SECNO= 92.22 CWSEL= 1367.80

TA= 938. 974. 984. 991. 994. 1006. 1016. 1022. 1025. 1032. 1042. 1060. 1098.

PER Q=	15.0	9.2	8.6	4.3	21.8	14.4	7.3	3.5	3.9	4.2	4.2	2.5
AREA=	114.5	53.1	44.1	20.7	97.9	69.1	37.8	21.2	25.8	33.1	41.5	38.9
VEL=	6.6	8.2	9.1	9.8	10.4	9.8	9.1	8.0	7.1	6.0	4.7	3.0

SECNO 92.330

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VR0B	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

92.33	8.09	1368.09	.00	.00	1369.67	1.58	.74	.11	1360.60
4695.	1190.	2677.	839.	196.	218.	136.	185.	54.	1360.60
.33	6.03	12.27	6.15	.040	.030	.040	.000	1360.00	924.63
.003974	155.	160.	160.	3	0	0	.00	137.48	1062.11

LOW DISTRIBUTION FOR SECNO= 92.33 CWSEL= 1368.09

STA=	925.	955.	970.	975.	979.	984.	985.	1014.	1020.	1024.	1029.	1048.	1052.
PER Q=	3.9	5.3	3.1	3.4	5.7	2.7	57.0	7.2	3.4	3.1	3.8	3	
AREA=	48.8	53.9	23.0	22.4	33.0	14.5	218.2	41.0	22.4	23.0	42.3	7.8	
VEL=	3.7	5.5	5.4	7.2	8.1	8.7	12.3	8.3	7.2	6.4	4.2	1.6	

SECNO 92.44
 3200 CROSS SECTION 92.44 EXTENDED 1.16 FEET

3301 HV CHANGED MORE THAN HVINS

92.44	9.35	1369.56	.00	.00	1369.96	.40	.17	.12	1360.70
4695.	659.	3201.	835.	215.	545.	305.	187.	55.	1360.70
.34	3.05	5.86	2.73	.040	.030	.040	.000	1360.20	915.21
.000735	120.	120.	125.	3	0	0	.00	205.79	1122.00

FLOW DISTRIBUTION FOR SECNO= 92.44 CWSEL= 1369.56

STA=	916.	949.	959.	968.	970.	1000.	1035.	1042.	1055.	1075.	1122.
PER Q=	3.3	3.6	5.6	1.6	68.2	3.6	3.9	4.8	3.3	2.2	
AREA=	74.5	54.6	68.5	17.4	545.5	41.6	49.4	71.8	68.2	75.0	
VEL=	2.0	3.1	3.9	4.2	5.9	4.0	3.7	3.1	2.3	1.4	

OCHV= .100 CEHV= .300
 SECNO 92.55
 380 CROSS SECTION 92.55 EXTENDED 1.44 FEET

92.55	9.13	1369.43	.00	.00	1370.18	.75	.11	.10	1360.70
4695.	657.	3400.	637.	198.	429.	214.	191.	55.	1360.70
.34	3.32	7.93	2.98	.035	.020	.035	.000	1360.30	932.26
.000614	230.	170.	125.	2	0	0	.00	144.74	1077.00

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VR0B	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	ICB	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 92.55 CWSEL= 1369.43

STA=	932.	959.	969.	974.	976.	1024.	1029.	1037.	1050.	1077.
PER Q=	4.0	4.9	3.5	1.5	72.4	3.7	3.9	3.4	2.5	
AREA=	76.8	64.4	39.7	17.2	428.9	41.0	51.5	57.2	64.3	
VEL=	2.4	3.5	4.1	4.4	7.9	4.2	3.6	2.8	1.9	

*SECNO 92.550
 3280 CROSS SECTION 92.55 EXTENDED 1.63 FEET

92.55	9.23	1369.63	.00	.00	1370.29	.67	.10	.01	1360.70
4695.	603.	3491.	602.	192.	472.	216.	195.	56.	1360.70
.35	3.14	7.40	2.78	.035	.020	.035	.000	1360.40	936.00
.000523	185.	185.	185.	2	0	0	.00	144.00	1020.00

FLOW DISTRIBUTION FOR SECNO= 92.66 CWSEL= 1369.63

STA=	936.	958.	968.	974.	1026.	1036.	1045.	1080.
PER Q=	3.9	4.8	4.2	74.3	6.9	3.3	3.4	
AREA=	75.8	66.3	50.1	472.0	76.6	51.1	88.5	
VEL=	2.4	3.4	3.9	7.4	3.7	3.1	1.8	

*SECNO 92.770
 3280 CROSS SECTION 92.77 EXTENDED 1.61 FEET

92.77	9.11	1369.61	.00	.00	1370.45	.64	.10	.05	1360.80
4695.	541.	3707.	447.	161.	457.	134.	199.	57.	1360.80
.36	3.36	8.11	3.33	.035	.020	.035	.000	1360.50	940.00
.000641	185.	180.	170.	2	0	0	.00	114.00	1054.00

FLOW DISTRIBUTION FOR SECNO= 92.77 CWSEL= 1369.61

STA=	940.	962.	970.	975.	1026.	1031.	1040.	1054.
PER Q=	3.5	4.2	3.9	79.0	3.9	4.0	1.7	
AREA=	68.3	52.9	41.7	456.8	41.7	54.0	38.5	
VEL=	2.5	3.7	4.3	8.1	4.3	3.5	2.1	

*SECNO 92.830
 3280 CROSS SECTION 92.83 EXTENDED .55 FEET

92.83	8.98	1369.59	.00	.00	1370.55	.97	.05	.04	1360.80
4695.	557.	3705.	433.	148.	426.	120.	199.	57.	1360.80
.35	3.75	8.70	3.60	.035	.020	.035	.000	1360.50	946.00
.000745	85.	85.	85.	2	0	0	.00	107.04	1053.04

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 92.88 CWSEL= 1369.58

STA=	946.	955.	974.	976.	1024.	1028.	1034.	1053.
PER Q=	4.4	5.7	1.8	78.9	3.3	3.3	2.6	
AREA=	70.5	60.6	17.4	426.1	33.5	39.5	47.3	
VEL=	2.9	4.4	4.9	8.7	4.6	3.9	2.6	

COHV= .300 CEHV= .500

*SECNO 928.900

928.90	9.55	1369.45	.00	.00	1370.74	1.29	.03	.16	1372.20
4695.	0.	4695.	0.	0.	516.	0.	200.	57.	1372.70
.35	.00	9.10	.00	.035	.020	.035	.000	1359.90	973.00
.001109	.50	35.	30.	2	0	0	.00	54.00	1027.00

LOW DISTRIBUTION FOR SECNO= 928.80 CWSEL= 1369.45

STA=	973.	1027.
PER Q=	100.0	
AREA=	515.7	
VEL=	9.1	

*SECNO 928.900

3001 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE.NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

D/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

928.90	9.13	1369.03	.00	.00	1371.17	2.14	.00	.43	1372.20
4695.	0.	4695.	0.	0.	400.	0.	200.	57.	1372.70
.35	.00	11.74	.00	.035	.015	.035	.000	1359.90	973.00
.004840	2.	2.	2.	2	0	0	-60.93	54.00	1027.00

LOW DISTRIBUTION FOR SECNO= 928.90 CWSEL= 1369.03

STA=	973.	1027.
PER Q=	100.0	
AREA=	400.0	
VEL=	11.7	

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOS	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOS	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOFWID	ENDST

*SECNO 929.100

370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

U/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

929.10	9.43	1369.33	.00	.00	1371.47	2.14	.30	.00	1372.20
4595.	0.	4595.	0.	0.	400.	0.	200.	57.	1372.70
.37	.00	11.74	.00	.035	.015	.035	.000	1359.90	973.00
.004840	62.	62.	62.	2	0	0	-77.14	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 929.10 CWSEL= 1369.33

TA= 973. 1027.

PER Q= 100.0

AREA= 400.0

VEL= 11.7

*SECNO 929.200

301 HV CHANGED MORE THAN HVINS

929.20	10.94	1370.84	.00	.00	1371.82	.98	.01	.35	1372.20
4595.	0.	4595.	0.	0.	591.	0.	200.	57.	1372.70
.37	.00	7.95	.00	.035	.035	.035	.000	1359.90	973.00
.002272	2.	2.	2.	3	0	0	.00	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 929.20 CWSEL= 1370.84

TA= 973. 1027.

PER Q= 100.0

AREA= 590.6

VEL= 7.9

*SECNO 929.800

380 CROSS SECTION 929.50 EXTENDED 1.23 FEET

3688 20 TRIALS ATTEMPTED WSEL, CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 720 CRITICAL DEPTH ASSUMED

929.80	15.32	1375.93	1375.93	.00	1377.52	.59	.12	.12	1375.60
4595.	1550.	1375.	1550.	378.	151.	378.	201.	57.	1375.60
.37	4.39	9.08	4.39	.035	.035	.035	.000	1360.10	700.00
.007753	32.	32.	32.	20	27	0	.00	500.00	1300.00

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IOC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 929.90 CWSEL= 1375.93

STA= 700. 996. 1005. 1300.

PER Q=	35.4	29.3	35.4
AREA=	377.9	151.5	377.9
VEL=	4.4	9.1	4.4

*SECNO 929.900

3290 CROSS SECTION 929.90 EXTENDED 1.24 FEET

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 1375.50 MAX ELLC= 1375.60

D/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

929.90	16.84	1376.94	.00	.00	1377.55	.61	.02	.01	1375.60
4895.	2045.	603.	2045.	382.	57.	382.	201.	57.	1375.60
.37	5.35	10.56	5.35	.035	.020	.035	.000	1350.10	700.00
.011321	2.	2.	2.	0	0	0	-94.50	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 929.90 CWSEL= 1376.94

STA= 700. 996. 1005. 1300.

PER Q=	43.6	12.8	43.6
AREA=	382.6	57.1	382.6
VEL=	5.3	10.6	5.3

*SECNO 930.100

3290 CROSS SECTION 930.10 EXTENDED 1.93 FEET

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

U/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

930.10	17.13	1377.63	.00	.00	1377.87	.24	.21	.11	1375.60
4695.	2161.	372.	2161.	585.	63.	585.	202.	58.	1375.60
.37	3.69	5.88	3.69	.035	.020	.035	.000	1350.50	700.00
.003864	40.	40.	40.	3	0	0	-90.90	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.10 CWSEL= 1377.63

STA= 700. 996. 1005. 1300.

PER Q=	45.0	7.9	45.0
AREA=	585.5	63.3	585.5
VEL=	3.7	5.9	3.7

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QRQB	ALQB	ACH	ARQB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SECNO 930.200
 3200 CROSS SECTION 930.20 EXTENDED 1.98 FEET

930.20	17.18	1377.68	.00	.00	1377.68	.20	.01	.01	1375.50
4695.	1954.	788.	1954.	600.	155.	600.	202.	58.	1375.50
.37	3.25	5.09	3.25	.035	.035	.035	.000	1350.50	700.00
.002811	2.	2.	2.	2	0	0	.00	600.00	1300.00

LOW DISTRIBUTION FOR SECNO= 930.20 CWSEL= 1377.68

STA=	700.	956.	1005.	1300.
PER Q=	41.6	16.8	41.6	
AREA=	599.8	154.6	599.8	
VEL=	3.3	5.1	3.3	

SECNO 930.500
 2200 CROSS SECTION 930.50 EXTENDED .48 FEET

930.50	17.98	1377.88	.00	.00	1377.84	.05	.01	.04	1367.40
4695.	560.	3574.	560.	846.	1618.	846.	205.	58.	1367.40
.38	.66	2.21	.66	.055	.030	.055	.000	1359.90	900.00
.000050	50.	50.	50.	2	0	0	.00	400.00	1200.00

FLOW DISTRIBUTION FOR SECNO= 930.50 CWSEL= 1377.88

STA=	800.	900.	950.	1050.	1100.	1200.
PER Q=	4.0	7.9	76.1	7.9	4.0	
AREA=	397.6	448.8	1617.6	448.8	397.6	
VEL=	.5	.8	2.2	.8	.5	

THIS RUN EXECUTED 06-11-92

 RECD RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-KT VERSION AUGUST 1985

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

EAST FORK CHISHOLM CREEK

SUMMARY PRINTOUT

SECNO	XLCH	Q	CWSEL	EG	ELMIN	QLOB	QCH	QROB
12.430	.00	1800.00	1360.25	1360.27	1352.30	.00	1620.31	179.69
12.430	.00	2655.00	1361.75	1361.77	1352.30	.00	2089.60	565.40
12.430	.00	3235.00	1362.25	1362.27	1352.30	.00	2367.31	867.69
12.430	.00	4695.00	1363.10	1363.13	1352.30	.00	3013.56	1581.44
12.610	950.00	1800.00	1360.49	1360.53	1353.00	.00	1600.00	.00
12.610	950.00	2655.00	1361.95	1362.01	1353.00	.34	2654.66	.00
12.610	950.00	3235.00	1362.46	1362.53	1353.00	21.56	3211.80	1.54
12.610	950.00	4695.00	1363.35	1363.44	1353.00	-215.44	4450.01	29.55
12.970	1900.00	1800.00	1361.62	1361.77	1352.80	1166.08	633.91	.00
12.970	1900.00	2655.00	1362.93	1363.06	1352.80	1903.95	751.05	.00
12.970	1900.00	3235.00	1363.49	1363.63	1352.80	2392.36	852.41	.23
12.970	1900.00	4695.00	1364.53	1364.71	1352.80	3571.74	1099.17	24.09
92.110	1675.00	1800.00	1364.41	1364.84	1358.00	461.80	621.18	717.02
92.110	1675.00	2655.00	1365.26	1365.84	1358.00	734.97	842.25	1077.77
92.110	1675.00	3235.00	1365.78	1366.44	1358.00	925.06	976.36	1333.56
92.110	1675.00	4695.00	1366.87	1367.67	1358.00	1384.28	1274.35	2036.37
92.220	290.00	1800.00	1365.12	1365.97	1358.50	584.83	601.69	613.48
92.220	290.00	2655.00	1365.10	1367.02	1358.50	961.76	748.27	944.97
92.220	290.00	3235.00	1365.66	1367.61	1358.50	1208.01	804.34	1192.65
92.220	290.00	4695.00	1367.80	1368.83	1358.50	1730.94	1021.45	1882.61
92.330	160.00	1800.00	1365.88	1365.62	1360.00	312.76	1235.15	252.09
92.330	160.00	2655.00	1366.70	1367.72	1360.00	545.93	1700.45	408.62
92.330	160.00	3235.00	1367.17	1368.36	1360.00	718.96	1992.48	523.56
92.330	160.00	4695.00	1368.09	1369.67	1360.00	1179.72	2676.52	838.76
92.440	120.00	1800.00	1365.61	1365.80	1360.20	180.12	1424.82	195.06
92.440	120.00	2655.00	1367.67	1367.94	1360.20	368.24	2001.43	345.33
92.440	120.00	3235.00	1368.28	1368.60	1360.20	403.03	2367.48	454.49
92.440	120.00	4695.00	1369.56	1369.96	1360.20	658.60	3200.60	835.60

SECNO	XLCH	Q	CWSEL	EG	ELMIN	QLOB	QCH	QROE
92.550	170.00	1800.00	1366.59	1366.92	1360.30	187.74	1461.19	151.07
92.550	170.00	2655.00	1367.63	1368.09	1360.30	315.31	2069.35	270.34
92.550	170.00	3235.00	1368.22	1368.77	1360.30	408.28	2460.47	365.25
92.550	170.00	4695.00	1369.43	1370.18	1360.30	657.48	3400.15	637.37
92.650	185.00	1800.00	1366.71	1366.99	1360.40	170.95	1430.75	148.30
92.650	185.00	2655.00	1367.78	1368.18	1360.40	289.36	2109.76	255.88
92.650	185.00	3235.00	1368.38	1368.86	1360.40	375.18	2514.89	344.94
92.650	185.00	4695.00	1369.63	1370.29	1360.40	602.73	3490.62	601.65
92.770	180.00	1800.00	1366.75	1367.07	1360.50	148.56	1526.30	125.14
92.770	180.00	2655.00	1367.80	1368.28	1360.50	252.47	2193.14	209.39
92.770	180.00	3235.00	1368.40	1368.98	1360.50	329.72	2631.73	273.55
92.770	180.00	4695.00	1369.61	1370.45	1360.50	541.31	3766.92	446.87
92.880	85.00	1800.00	1366.75	1367.12	1360.60	163.18	1514.50	122.22
92.880	85.00	2655.00	1367.80	1368.34	1360.60	269.52	2160.42	205.07
92.880	85.00	3235.00	1368.39	1369.05	1360.60	347.47	2621.28	266.24
92.880	85.00	4695.00	1369.58	1370.55	1360.60	557.02	3766.02	432.96
929.800	35.00	1800.00	1366.77	1367.14	1359.90	.00	1800.00	.00
929.800	35.00	2655.00	1367.79	1368.40	1359.90	.00	2655.00	.00
929.800	35.00	3235.00	1368.36	1369.13	1359.90	.00	3235.00	.00
929.800	35.00	4695.00	1369.45	1370.74	1359.90	.00	4695.00	.00
929.900	2.00	1800.00	1366.74	1367.17	1359.90	.00	1800.00	.00
929.900	2.00	2655.00	1367.74	1368.45	1359.90	.00	2655.00	.00
929.900	2.00	3235.00	1368.24	1369.26	1359.90	.00	3235.00	.00
929.900	2.00	4695.00	1369.03	1371.17	1359.90	.00	4695.00	.00
929.100	62.00	1800.00	1366.79	1367.21	1359.90	.00	1800.00	.00
929.100	62.00	2655.00	1367.82	1368.52	1359.90	.00	2655.00	.00
929.100	62.00	3235.00	1368.38	1369.40	1359.90	.00	3235.00	.00
929.100	62.00	4695.00	1369.32	1371.47	1359.90	.00	4695.00	.00
929.200	2.00	1800.00	1366.88	1367.24	1359.90	.00	1800.00	.00
929.200	2.00	2655.00	1367.99	1368.56	1359.90	.00	2655.00	.00
929.200	2.00	3235.00	1368.79	1369.50	1359.90	.00	3235.00	.00
929.200	2.00	4695.00	1370.84	1371.82	1359.90	.00	4695.00	.00
929.800	32.00	1800.00	1370.81	1376.22	1360.10	.00	1800.00	.00
929.800	32.00	2655.00	1370.98	1380.99	1360.10	.00	2655.00	.00
929.800	32.00	3235.00	1376.58	1377.19	1360.10	964.53	1305.94	964.53
929.800	32.00	4695.00	1376.93	1377.52	1360.10	1659.69	1376.61	1659.69
929.900	2.00	1800.00	1376.49	1376.76	1360.10	710.43	379.14	710.43
929.900	2.00	2655.00	1376.57	1377.03	1360.10	1075.02	504.97	1075.02
929.900	2.00	3235.00	1376.59	1377.23	1360.10	1318.08	598.84	1318.08
929.900	2.00	4695.00	1376.94	1377.55	1360.10	2045.10	602.79	2045.10

SECNO	XLCH	Q	CWSEL	EG	ELMIN	QLOB	QCH	QROB
930.100	40.00	1800.00	1376.83	1376.94	1360.50	771.40	257.20	771.40
930.100	40.00	2655.00	1377.15	1377.29	1360.50	1184.41	286.19	1184.41
930.100	40.00	3235.00	1377.41	1377.55	1360.50	1471.37	292.26	1471.37
930.100	40.00	4635.00	1377.63	1377.87	1360.50	2151.38	372.24	2151.38
930.200	2.00	1800.00	1376.84	1376.94	1360.50	619.12	561.77	619.12
930.200	2.00	2655.00	1377.17	1377.30	1360.50	1011.84	631.33	1011.84
930.200	2.00	3235.00	1377.43	1377.56	1360.50	1297.72	639.55	1297.72
930.200	2.00	4635.00	1377.68	1377.88	1360.50	1953.61	787.77	1953.61
930.500	50.00	1800.00	1376.96	1376.97	1359.90	191.86	1416.27	191.86
930.500	50.00	2655.00	1377.31	1377.33	1359.90	294.95	2065.10	294.95
930.500	50.00	3235.00	1377.56	1377.59	1359.90	371.14	2492.73	371.14
930.500	50.00	4635.00	1377.88	1377.94	1359.90	560.35	3574.30	560.35

EAST FORK CHISHOLM CREEK

SUMMARY PRINTOUT TABLE 159

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	OWSEL	ORWS	EG	10K*8	VCH	AREA	.01K
12.430	.00	.00	.00	1352.30	1800.00	1360.25	.00	1360.27	1.94	1.21	1724.93	1292.92
12.430	.00	.00	.00	1352.30	2655.00	1361.75	.00	1361.77	1.67	1.28	2655.56	2054.22
12.430	.00	.00	.00	1352.30	3235.00	1362.25	.00	1362.27	1.77	1.37	3223.03	2433.38
12.430	.00	.00	.00	1352.30	4695.00	1363.10	.00	1363.13	2.11	1.58	4211.53	3230.79
12.510	950.00	.00	.00	1353.00	1800.00	1360.49	.00	1360.53	3.88	1.54	1099.10	913.43
12.510	950.00	.00	.00	1353.00	2655.00	1361.95	.00	1362.01	3.63	1.83	1457.24	1094.38
12.510	950.00	.00	.00	1353.00	3235.00	1362.46	.00	1362.53	4.01	2.03	1650.93	1614.56
12.510	950.00	.00	.00	1353.00	4695.00	1363.35	.00	1363.44	4.98	2.47	2126.64	2104.38
12.970	1900.00	.00	.00	1352.80	1800.00	1361.62	.00	1361.77	15.76	3.79	627.61	453.89
12.970	1900.00	.00	.00	1352.80	2655.00	1362.93	.00	1363.06	11.63	3.60	943.90	778.68
12.970	1900.00	.00	.00	1352.80	3235.00	1363.49	.00	1363.63	11.82	3.75	1101.45	961.48
12.970	1900.00	.00	.00	1352.80	4695.00	1364.53	.00	1364.71	11.77	4.20	1468.99	1368.73
92.110	1675.00	.00	.00	1358.00	1800.00	1364.41	.00	1364.84	22.71	6.58	363.35	377.72
92.110	1675.00	.00	.00	1358.00	2655.00	1365.26	.00	1365.84	26.59	7.79	459.39	514.84
92.110	1675.00	.00	.00	1358.00	3235.00	1365.78	.00	1366.44	27.93	8.38	527.38	612.19
92.110	1675.00	.00	.00	1358.00	4695.00	1366.87	.00	1367.67	29.90	9.52	657.60	853.65
92.220	290.00	.00	.00	1358.50	1800.00	1365.12	.00	1365.97	68.98	9.16	256.33	216.73
92.220	290.00	.00	.00	1358.50	2655.00	1366.10	.00	1367.02	61.80	9.67	358.92	337.72
92.220	290.00	.00	.00	1358.50	3235.00	1366.66	.00	1367.61	58.28	9.92	428.26	423.74
92.220	290.00	.00	.00	1358.50	4695.00	1367.80	.00	1368.83	52.65	10.44	597.72	647.06
92.330	160.00	.00	.00	1360.00	1800.00	1365.88	.00	1366.62	25.92	7.92	297.93	353.64
92.330	160.00	.00	.00	1360.00	2655.00	1366.70	.00	1367.72	30.83	9.48	380.48	478.15
92.330	160.00	.00	.00	1360.00	3235.00	1367.17	.00	1368.36	33.43	10.35	433.10	559.53
92.330	160.00	.00	.00	1360.00	4695.00	1368.09	.00	1369.67	39.74	12.27	550.02	744.72
92.440	120.00	.00	.00	1360.20	1800.00	1366.61	.00	1366.80	5.37	3.86	555.98	776.43
92.440	120.00	.00	.00	1360.20	2655.00	1367.67	.00	1367.94	6.22	4.62	709.95	1054.28
92.440	120.00	.00	.00	1360.20	3235.00	1368.28	.00	1368.60	6.64	5.04	811.61	1255.55
92.440	120.00	.00	.00	1360.20	4695.00	1369.56	.00	1369.96	7.35	5.86	1057.43	1731.71
92.550	170.00	.00	.00	1360.30	1800.00	1366.59	.00	1366.92	4.06	4.99	451.42	893.71
92.550	170.00	.00	.00	1360.30	2655.00	1367.63	.00	1368.09	4.82	6.04	587.57	1209.66
92.550	170.00	.00	.00	1360.30	3235.00	1368.22	.00	1368.77	5.22	6.64	668.61	1415.56
92.550	170.00	.00	.00	1360.30	4695.00	1369.43	.00	1370.18	6.14	7.93	840.85	1895.01
92.660	185.00	.00	.00	1360.40	1800.00	1366.71	.00	1366.99	3.42	4.62	489.83	972.65
92.660	185.00	.00	.00	1360.40	2655.00	1367.78	.00	1368.18	4.09	5.61	616.67	1313.20
92.660	185.00	.00	.00	1360.40	3235.00	1368.38	.00	1368.86	4.44	6.17	701.63	1535.24
92.660	185.00	.00	.00	1360.40	4695.00	1369.63	.00	1370.29	5.23	7.40	890.34	2052.74

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10KRS	VCH	AREA	01K
92.770	180.00	.00	.00	1360.50	1800.00	1366.75	.00	1367.07	3.92	4.91	443.90	909.17
92.770	180.00	.00	.00	1360.50	2655.00	1367.80	.00	1368.28	4.75	6.01	549.98	1218.16
92.770	180.00	.00	.00	1360.50	3235.00	1368.40	.00	1368.98	5.24	6.66	615.03	1413.19
92.770	180.00	.00	.00	1360.50	4695.00	1369.61	.00	1370.45	6.41	8.11	751.91	1854.93
92.880	85.00	.00	.00	1360.50	1800.00	1366.75	.00	1367.12	4.46	5.21	418.82	852.31
92.880	85.00	.00	.00	1360.50	2655.00	1367.80	.00	1368.34	5.43	6.40	515.28	1139.70
92.880	85.00	.00	.00	1360.50	3235.00	1368.39	.00	1369.05	6.02	7.10	572.62	1318.83
92.880	85.00	.00	.00	1360.50	4695.00	1369.58	.00	1370.55	7.45	8.70	694.86	1719.93
928.800	35.00	.00	.00	1359.90	1800.00	1366.77	.00	1367.14	4.42	4.85	370.97	856.41
928.800	35.00	.00	.00	1359.90	2655.00	1367.79	.00	1368.40	6.30	6.26	426.22	1058.18
928.800	35.00	.00	.00	1359.90	3235.00	1368.36	.00	1369.13	7.59	7.09	456.57	1174.14
928.800	35.00	.00	.00	1359.90	4695.00	1369.45	.00	1370.74	11.09	9.10	515.75	1409.71
928.900	2.00	1372.20	1372.70	1359.90	1800.00	1366.74	.00	1367.17	6.86	5.26	342.00	687.21
928.900	2.00	1372.20	1372.70	1359.90	2655.00	1367.74	.00	1368.45	10.55	6.77	391.97	817.22
928.900	2.00	1372.20	1372.70	1359.90	3235.00	1368.24	.00	1369.26	22.98	8.09	400.00	674.82
928.900	2.00	1372.20	1372.70	1359.90	4695.00	1369.03	.00	1371.17	48.40	11.74	400.00	674.82
929.100	62.00	1372.20	1372.70	1359.90	1800.00	1366.79	.00	1367.21	6.75	5.23	344.09	692.58
929.100	62.00	1372.20	1372.70	1359.90	2655.00	1367.82	.00	1368.52	10.27	6.70	396.18	828.28
929.100	62.00	1372.20	1372.70	1359.90	3235.00	1368.38	.00	1369.40	22.98	8.09	400.00	674.82
929.100	62.00	1372.20	1372.70	1359.90	4695.00	1369.33	.00	1371.47	48.40	11.74	400.00	674.82
929.200	2.00	.00	.00	1359.90	1800.00	1366.88	.00	1367.24	12.86	4.77	377.14	501.90
929.200	2.00	.00	.00	1359.90	2655.00	1367.99	.00	1368.56	17.91	6.08	436.72	627.36
929.200	2.00	.00	.00	1359.90	3235.00	1368.79	.00	1369.50	19.96	6.73	480.34	724.18
929.200	2.00	.00	.00	1359.90	4695.00	1370.84	.00	1371.82	22.72	7.95	590.59	904.90
929.800	32.00	.00	.00	1360.10	1800.00	1370.81	1370.81	1376.22	415.43	18.67	96.41	88.31
929.800	32.00	.00	.00	1360.10	2655.00	1373.98	1373.98	1380.99	490.43	21.25	124.92	119.88
929.800	32.00	.00	.00	1360.10	3235.00	1376.58	1376.58	1377.18	74.89	8.90	599.48	373.82
929.800	32.00	.00	.00	1360.10	4695.00	1376.93	1376.93	1377.52	77.53	9.06	907.20	538.20
929.900	2.00	1375.60	1375.60	1360.10	1800.00	1376.49	1376.49	1376.76	57.34	7.15	549.98	237.71
929.900	2.00	1375.60	1375.60	1360.10	2655.00	1376.57	1376.57	1377.03	97.29	9.40	597.51	269.17
929.900	2.00	1375.60	1375.60	1360.10	3235.00	1376.59	1376.59	1377.23	135.15	11.10	610.77	278.27
929.900	2.00	1375.60	1375.60	1360.10	4695.00	1376.94	.00	1377.55	113.21	10.56	822.00	441.27
930.100	40.00	1375.60	1375.60	1360.50	1800.00	1376.83	.00	1376.94	21.90	4.59	753.30	394.63
930.100	40.00	1375.60	1375.60	1360.50	2655.00	1377.15	.00	1377.29	22.86	4.85	949.66	655.29
930.100	40.00	1375.60	1375.60	1360.50	3235.00	1377.41	.00	1377.55	21.00	4.77	1102.30	705.94
930.100	40.00	1375.60	1375.60	1360.50	4695.00	1377.63	.00	1377.87	30.64	5.88	1234.28	848.17
930.200	2.00	.00	.00	1360.50	1800.00	1376.84	.00	1376.94	13.90	3.82	847.35	482.88
930.200	2.00	.00	.00	1360.50	2655.00	1377.17	.00	1377.30	16.43	4.21	1044.81	655.08
930.200	2.00	.00	.00	1360.50	3235.00	1377.43	.00	1377.56	16.02	4.20	1199.50	808.34
930.200	2.00	.00	.00	1360.50	4695.00	1377.68	.00	1377.88	23.11	5.09	1354.18	976.74

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	OWSEL	CRWS	EG	10KWS	VCH	AREA	.01K
930.500	50.00	.00	.00	1359.90	1800.00	1376.95	.00	1376.97	.10	.93	2948.16	5824.65
930.500	50.00	.00	.00	1359.90	2555.00	1377.31	.00	1377.33	.19	1.32	3083.89	6116.27
930.500	50.00	.00	.00	1359.90	3235.00	1377.55	.00	1377.59	.25	1.57	3185.09	6341.91
930.500	50.00	.00	.00	1359.90	4595.00	1377.88	.00	1377.94	.50	2.21	3310.43	6631.59

EAST FORK CHISHOLM CREEK

SUMMARY PRINTOUT TABLE 150

SECTION	Q	CUSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH	FEMA 100-YR	FEMA FLOODWAY
	12.430	1800.00	1360.25	.00	.00	.00	468.37	.00	
	12.430	2655.00	1361.75	1.50	.00	.00	1097.17	.00	
	12.430	3235.00	<u>1362.25</u>	.50	.00	.00	1132.74	.00	1362.3
	12.430	4695.00	1363.10	.85	.00	.00	1193.20	.00	1363.2 (2391 FT ²)
	12.610	1800.00	1360.49	.00	.24	.00	234.06	950.00	
	12.610	2655.00	1361.95	1.47	.20	.00	268.22	950.00	1363.4
	12.610	3235.00	<u>1362.45</u>	.51	.21	.00	480.89	950.00	1362.5 (1799 FT ²)
	12.610	4695.00	1363.35	.89	.25	.00	592.21	950.00	
	12.970	1800.00	1361.62	.00	1.13	.00	217.17	1900.00	
	12.970	2655.00	1362.93	1.30	.97	.00	267.92	1900.00	
	12.970	3235.00	<u>1363.49</u>	.56	1.03	.00	290.64	1900.00	1363.5 (1101)
	12.970	4695.00	1364.53	1.04	1.18	.00	510.96	1900.00	1364.1 (1935 FT ²)
	92.110	1800.00	1364.41	.00	2.78	.00	103.68	1575.00	
	92.110	2655.00	1365.26	.85	2.33	.00	123.05	1575.00	
	92.110	3235.00	<u>1365.78</u>	.52	2.29	.00	139.12	1575.00	1366.2
	92.110	4695.00	1366.87	1.09	2.34	.00	173.74	1575.00	1366.6 (298 FT ²)
	92.220	1800.00	1365.12	.00	.71	.00	95.51	290.00	
	92.220	2655.00	1366.10	.98	.84	.00	115.99	290.00	
	92.220	3235.00	1366.66	.55	.88	.00	132.72	290.00	
	92.220	4695.00	1367.80	1.14	.93	.00	159.94	290.00	
	92.330	1800.00	1365.88	.00	.76	.00	91.05	150.00	
	92.330	2655.00	1366.70	.83	.60	.00	107.11	150.00	
	92.330	3235.00	1367.17	.47	.52	.00	117.04	150.00	
	92.330	4695.00	1368.09	.92	.29	.00	137.48	150.00	
	92.440	1800.00	1366.61	.00	.73	.00	132.52	120.00	
	92.440	2655.00	1367.67	1.07	.97	.00	154.83	120.00	
	92.440	3235.00	1368.28	.61	1.11	.00	187.07	120.00	
	92.440	4695.00	1369.56	1.28	1.47	.00	205.79	120.00	
	92.550	1800.00	1366.59	.00	-.01	.00	112.13	170.00	
	92.550	2655.00	1367.63	1.04	-.04	.00	131.66	170.00	
	92.550	3235.00	<u>1368.22</u>	.59	-.05	.00	139.90	170.00	1367.3
	92.550	4695.00	1369.43	1.21	-.13	.00	144.74	170.00	1367.7 (905 FT ²)
	92.660	1800.00	1366.71	.00	.12	.00	108.69	185.00	
	92.660	2655.00	1367.78	1.06	.14	.00	134.28	185.00	
	92.660	3235.00	1368.38	.61	.16	.00	142.15	185.00	
	92.660	4695.00	1369.63	1.24	.20	.00	144.00	185.00	

AN
3.60

1368.1
1368.7
(791 FT²)

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
92.770	1800.00	1366.75	.00	.03	.00	94.97	180.00
92.770	2655.00	1367.80	1.06	.03	.00	106.63	180.00
92.770	3235.00	1368.40	.60	.02	.00	110.99	180.00
92.770	4695.00	1369.61	1.21	-.02	.00	114.00	180.00
92.880	1800.00	1366.75	.00	.01	.00	88.52	85.00
92.880	2655.00	1367.80	1.05	.00	.00	95.62	85.00
92.880	3235.00	1368.39	.59	-.01	.00	99.34	85.00
92.880	4695.00	1369.58	1.19	-.03	.00	107.04	85.00
928.800	1800.00	1366.77	.00	.02	.00	54.00	35.00
928.800	2655.00	1367.79	1.02	-.01	.00	54.00	35.00
928.800	3235.00	1368.36	.56	-.04	.00	54.00	35.00
928.800	4695.00	1369.45	1.10	-.13	.00	54.00	35.00
928.900	1800.00	1366.74	.00	-.03	.00	50.00	2.00
928.900	2655.00	1367.74	1.00	-.05	.00	50.00	2.00
928.900	3235.00	1368.24	.50	-.12	.00	54.00	2.00
928.900	4695.00	1369.03	.79	-.42	.00	54.00	2.00
929.100	1800.00	1366.79	.00	.05	.00	50.00	62.00
929.100	2655.00	1367.82	1.03	.08	.00	50.00	62.00
929.100	3235.00	1368.38	.55	.14	.00	54.00	62.00
929.100	4695.00	1369.33	.95	.30	.00	54.00	62.00
929.200	1800.00	1366.88	.00	.09	.00	54.00	2.00
929.200	2655.00	1367.99	1.10	.16	.00	54.00	2.00
929.200	3235.00	1368.79	.80	.41	.00	54.00	2.00
929.200	4695.00	1370.84	2.05	1.51	.00	54.00	2.00
929.300	1800.00	1370.81	.00	3.93	.00	9.00	32.00
929.300	2655.00	1373.98	3.17	5.99	.00	9.00	32.00
929.300	3235.00	1376.58	2.50	7.79	.00	500.00	32.00
929.300	4695.00	1376.93	.35	6.09	.00	500.00	32.00
929.900	1800.00	1376.49	.00	5.68	.00	500.00	2.00
929.900	2655.00	1376.57	.08	2.59	.00	500.00	2.00
929.900	3235.00	1376.59	.02	.01	.00	500.00	2.00
929.900	4695.00	1376.94	.34	.01	.00	500.00	2.00
930.100	1800.00	1376.83	.00	.34	.00	500.00	40.00
930.100	2655.00	1377.15	.33	.58	.00	500.00	40.00
930.100	3235.00	1377.41	.25	.81	.00	500.00	40.00
930.100	4695.00	1377.63	.23	.70	.00	500.00	40.00
930.200	1800.00	1376.84	.00	.01	.00	500.00	2.00
930.200	2655.00	1377.17	.33	.02	.00	500.00	2.00
930.200	3235.00	1377.43	.26	.02	.00	500.00	2.00
930.200	4695.00	1377.68	.25	.05	.00	500.00	2.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
930.500	1800.00	1376.96	.00	.12	.00	387.53	50.00
930.500	2655.00	1377.31	.35	.14	.00	397.41	50.00
930.500	3235.00	1377.56	.25	.13	.00	400.00	50.00
930.500	4655.00	1377.88	.31	.20	.00	400.00	50.00

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION	SECNO=	929.800	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	929.800	PROFILE=	1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	929.800	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	929.800	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	929.800	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	929.800	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	929.800	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	929.800	PROFILE=	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	929.800	PROFILE=	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	929.800	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	929.800	PROFILE=	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	929.800	PROFILE=	4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	929.900	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	929.900	PROFILE=	1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	929.900	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	929.900	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	929.900	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	929.900	PROFILE=	3	MINIMUM SPECIFIC ENERGY

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*****
* WATER SURFACE PROFILES *
* VERSION OF NOVEMBER 1976 *
* UPDATED MAY 1984 *
* IBM-PC-XT VERSION AUGUST 1985 *
* RUN DATE 06-30-92 TIME 12:55:36 *
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* U.S. ARMY CORPS OF ENGINEERS *
* THE HYDROLOGIC ENGINEERING CENTER *
* 509 SECOND STREET, SUITE D *
* DAVIS, CALIFORNIA 95616 *
* (916) 440-2105 (FTS) 448-2105 *
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THIS RUN EXECUTED 06-30-92

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

T1 WILLOWBEND HEIGHTS - CHANNEL IMPROVEMENT - CHAMPIONS FILE : EFCC-CH2
 T2 MID-KANSAS ENGINEERING CONSULTANTS INC., WICHITA, KANSAS
 T3 EAST FORK CHISHOLM CREEK 10-YR Q

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ
 0. 2. 0. 0. .000000 .00 .0 0. 1350.250 .000

J2 NPROF IPILOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE
 1.000 .000 -1.000 .000 .000 .000 .000 .000 .000 .000 15.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT
 38.000 39.000 43.000 1.000 3.000 42.000 13.000 14.000 15.000 .000

150.000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000

QT .000 1800.000 2655.000 3235.000 4695.000 .000 .000 .000 .000 .000 .000
 NC .050 .050 .050 .100 .300 .000 .000 .000 .000 .000 .000

FEMA X-SECTION

X1 12.430 21.000 10000.000 10207.000 290.000 250.000 280.000 .000 .000 .000 .000
 GR 1373.400 9590.000 1372.400 9710.000 1370.400 9820.000 1369.400 9880.000 1368.400 9945.000
 GR 1368.200 10000.000 1355.000 10015.000 1352.700 10018.000 1352.300 10045.000 1352.700 10074.000
 GR 1354.100 10095.000 1353.500 10110.000 1352.300 10182.000 1359.900 10206.000 1359.900 10207.000
 GR 1357.700 10211.000 1359.100 10330.000 1358.800 10430.000 1361.400 10515.000 1361.400 11080.000
 GR 1367.400 11500.000 .000 .000 .000 .000 .000 .000 .000 .000 .000

NC .045 .045 .050 .000 .000 .000 .000 .000 .000 .000 .000

FEMA X-SECTION 'AJ'

X1 12.610 15.000 10200.000 10450.000 920.000 950.000 950.000 .000 .000 .000 .000
 GR 1370.000 9480.000 1362.400 10000.000 1362.200 10100.000 1361.800 10200.000 1367.400 10230.000
 GR 1354.200 10273.000 1353.500 10280.000 1353.000 10283.000 1353.500 10286.000 1354.300 10289.000
 GR 1354.900 10355.000 1356.600 10425.000 1362.000 10450.000 1363.400 10530.000 1367.400 10650.000

VH 4.000 .045 10300.000 .050 10402.000 .045 10435.000 .050 10890.000 .000 .000

FEMA X-SECTION 'AK'

X1 12.970 16.000 10402.000 10435.000 1400.000 1900.000 1900.000 .000 .000 .000 .000
 GR 1370.000 10030.000 1364.800 10100.000 1362.000 10200.000 1359.600 10300.000 1356.300 10402.000
 GR 1354.000 10405.000 1352.800 10409.000 1354.000 10412.000 1356.100 10415.000 1356.800 10425.000
 GR 1363.000 10435.000 1364.600 10443.000 1364.400 10530.000 1364.000 10630.000 1366.600 10730.000
 GR 1370.000 10890.000 .000 .000 .000 .000 .000 .000 .000 .000 .000

NC	.040	.040	.035	.100	.200	.000	.000	.000	.000	.000
X1	92.110	19.000	992.000	1008.000	1535.000	1645.000	1675.000	.000	.000	.000
GR	1365.000	947.000	1364.000	954.000	1363.000	961.000	1362.000	969.000	1361.000	977.000
GR	1360.000	983.000	1359.000	992.000	1358.000	1000.000	1359.000	1008.000	1360.000	1030.000
GR	1361.000	1035.000	1362.000	1040.000	1363.000	1044.000	1364.000	1050.000	1365.000	1062.000
GR	1366.000	1093.000	1367.000	1125.000	1368.000	1156.000	1368.100	1160.000	.000	.000

NC	.040	.040	.040	.000	.000	.000	.000	.000	.000	.000
X1	92.220	22.000	994.000	1006.000	285.000	285.000	290.000	.000	.000	.000
GR	1369.500	855.000	1369.000	923.000	1368.000	937.000	1367.000	943.000	1366.000	947.000
GR	1365.000	949.000	1364.000	954.000	1363.000	974.000	1362.000	984.000	1361.000	991.000
GR	1360.800	994.000	1358.500	1000.000	1360.800	1006.000	1361.000	1016.000	1362.000	1022.000
GR	1363.000	1026.000	1364.000	1032.000	1365.000	1042.000	1366.000	1050.000	1367.000	1086.000
GR	1368.000	1101.000	1369.000	1116.000	.000	.000	.000	.000	.000	.000

NC	.040	.040	.030	.000	.000	.000	.000	.000	.000	.000
X1	92.330	25.000	986.000	1014.000	165.000	160.000	160.000	.000	.000	.000
GR	1372.800	900.000	1372.000	906.000	1371.000	910.000	1370.000	916.000	1369.000	921.000
GR	1368.000	925.000	1367.000	935.000	1366.000	944.000	1365.000	955.000	1364.000	970.000
GR	1363.000	975.000	1362.000	979.000	1361.000	984.000	1360.600	986.000	1360.000	1000.000
GR	1360.600	1014.000	1361.000	1016.000	1362.000	1020.000	1363.000	1024.000	1364.000	1029.000
GR	1365.000	1033.000	1366.000	1037.000	1367.000	1048.000	1368.000	1061.000	1369.000	1073.000

X1	92.440	25.000	970.000	1030.000	120.000	125.000	120.000	.000	.000	.000
GR	1372.200	871.000	1372.000	903.000	1371.000	909.000	1370.000	914.000	1369.000	919.000
GR	1368.000	929.000	1367.000	935.000	1366.000	941.000	1365.000	949.000	1364.000	955.000
GR	1363.000	959.000	1362.000	963.000	1361.000	968.000	1360.700	970.000	1360.200	1000.000
GR	1360.700	1030.000	1361.000	1032.000	1362.000	1035.000	1363.000	1042.000	1364.000	1048.000
GR	1365.000	1055.000	1366.000	1062.000	1367.000	1075.000	1368.000	1091.000	1368.400	1122.000

NC	.035	.035	.020	.100	.300	.000	.000	.000	.000	.000
X1	92.550	21.000	976.000	1024.000	230.000	125.000	170.000	.000	.000	.000
GR	1370.000	930.000	1369.000	934.000	1368.000	938.000	1367.000	943.000	1366.000	948.000
GR	1365.000	954.000	1364.000	959.000	1363.000	964.000	1362.000	969.000	1361.000	974.000
GR	1360.700	976.000	1360.300	1000.000	1360.700	1024.000	1361.000	1026.000	1362.000	1029.000
GR	1363.000	1033.000	1364.000	1037.000	1365.000	1043.000	1366.000	1050.000	1367.000	1062.000
GR	1368.000	1077.000	.000	.000	.000	.000	.000	.000	.000	.000

X1	92.660	20.000	974.000	1026.000	185.000	185.000	185.000	.000	.000	.000
GR	1369.000	936.000	1368.000	939.000	1367.000	943.000	1366.000	947.000	1365.000	952.000
GR	1364.000	958.000	1363.000	963.000	1362.000	968.000	1361.000	972.000	1360.700	974.000
GR	1360.400	1000.000	1360.700	1026.000	1361.000	1028.000	1362.000	1030.000	1363.000	1036.000
GR	1364.000	1041.000	1365.000	1045.000	1366.000	1050.000	1367.000	1054.000	1368.000	1080.000

X1	92.770	20.000	975.000	1026.000	185.000	170.000	180.000	.000	.000	.000
GR	1369.000	940.000	1368.000	945.000	1367.000	949.000	1366.000	954.000	1365.000	958.000
GR	1364.000	962.000	1363.000	966.000	1362.000	970.000	1361.000	973.000	1360.800	975.000
GR	1360.500	1000.000	1360.800	1026.000	1361.000	1028.000	1362.000	1031.000	1363.000	1034.000
GR	1364.000	1036.000	1365.000	1040.000	1366.000	1043.000	1367.000	1046.000	1368.000	1064.000

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOEL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*PROF 1

*SCHV= .100 CEHV= .300
 *SECNO 12.430

FEMA X-SECTION

12.43	7.95	1360.25	.00	1360.25	1360.27	.02	.00	.00	1368.20
1800.	0.	1620.	180.	0.	1335.	390.	0.	0.	1359.90
.00	.00	1.21	.46	.050	.060	.060	.000	1352.30	10009.03
.000194	290.	290.	250.	0	0	0	.00	468.37	10477.40

FLOW DISTRIBUTION FOR SECNO= 12.43 CWSEL= 1360.25

STA=	10009.	10207.	10211.	10330.	10430.	10477.
PER Q=	90.0	.1	6.4	3.0	.5	
AREA=	1334.6	5.8	220.2	130.0	34.4	
VEL=	1.2	.4	.5	.4	.3	

*SECNO 12.610

FEMA X-SECTION 'AJ'

12.61	7.49	1360.49	.00	.00	1360.53	.04	.25	.01	1361.80
1800.	0.	1800.	0.	0.	1099.	0.	31.	8.	1362.00
.16	.00	1.64	.00	.045	.050	.045	.000	1353.00	10208.94
.000388	920.	950.	950.	2	0	0	.00	234.06	10443.00

FLOW DISTRIBUTION FOR SECNO= 12.61 CWSEL= 1360.49

STA=	10209.	10450.
PER Q=	100.0	
AREA=	1099.1	
VEL=	1.6	

490 NH CARD USED

*SECNO 12.970

FEMA X-SECTION 'AK'

12.97	8.82	1361.62	.00	.00	1361.77	.14	1.21	.03	1358.30
1800.	1166.	634.	0.	460.	167.	0.	66.	15.	1363.00
.32	2.53	3.79	.00	.050	.045	.045	.000	1352.80	10215.61
.001576	1400.	1900.	1900.	2	0	0	.00	217.17	10432.78

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 12.97 CWSEL= 1361.62

STA= 10215. 10300. 10402. 10435.

PER Q= 6.3 58.5 35.2
 AREA= 85.5 374.9 167.3
 VEL= 1.3 2.8 3.8

CCHV= .100 CEHV= .200

*SECNO 92.110

92.11	6.41	1364.41	.00	.00	1364.84	.43	3.01	.06	1359.00
1800.	462.	621.	717.	113.	94.	156.	84.	22.	1359.00
.41	4.09	6.58	4.60	.040	.035	.040	.000	1358.00	951.17
.002271	1535.	1675.	1645.	2	0	0	.00	103.68	1054.85

FLOW DISTRIBUTION FOR SECNO= 92.11 CWSEL= 1364.41

STA= 951. 977. 983. 992. 1009. 1030. 1035. 1044. 1055.

PER Q= 7.5 5.7 12.5 34.5 30.6 4.7 4.0 5
 AREA= 45.4 23.4 44.1 94.5 107.9 19.5 22.1 6.4
 VEL= 3.0 4.3 5.1 6.6 5.1 4.3 3.3 1.5

*SECNO 92.220

92.22	6.62	1365.12	.00	.00	1365.97	.85	1.05	.08	1360.80
1800.	585.	602.	613.	100.	66.	91.	86.	23.	1360.80
.42	5.85	9.16	6.77	.040	.040	.040	.000	1358.50	948.75
.006898	285.	290.	285.	2	0	0	.00	95.51	1044.26

FLOW DISTRIBUTION FOR SECNO= 92.22 CWSEL= 1365.12

STA= 949. 974. 984. 991. 994. 1006. 1016. 1022. 1026. 1042. 1044.

PER Q= 8.1 8.5 10.2 5.7 33.4 18.9 8.7 3.4 3.1 .0
 AREA= 35.6 26.3 25.4 12.7 65.7 42.3 21.8 10.5 16.0 .1
 VEL= 4.1 5.9 7.2 8.1 9.2 8.1 7.2 5.8 3.5 .5

*SECNO 92.330

92.33	5.88	1365.88	.00	.00	1366.62	.75	.64	.01	1360.60
1800.	313.	1235.	252.	82.	156.	60.	87.	23.	1360.60
.43	3.81	7.92	4.21	.040	.030	.040	.000	1360.00	945.43
.002592	165.	160.	160.	1	0	0	.00	91.05	1036.48

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 92.33 CWSEL= 1365.88

STA=	945.	975.	979.	984.	986.	1014.	1016.	1020.	1024.	1036.
PER Q=	5.1	3.1	6.1	3.1	68.6	3.1	4.8	3.1	3.0	
AREA=	36.6	13.5	21.8	10.1	156.0	10.1	17.5	13.5	18.8	
VEL=	2.5	4.2	5.0	5.5	7.9	5.5	5.0	4.2	2.8	

*SECNO 92.440

3301 HV CHANGED MORE THAN HVINS

92.44	6.41	1366.61	.00	.00	1366.80	.20	.12	.06	1360.70
1800.	180.	1425.	195.	88.	369.	99.	88.	24.	1360.70
.44	2.04	3.86	1.97	.040	.030	.040	.000	1360.20	937.36
.000537	120.	120.	125.	2	0	0	.00	132.52	1069.88

FLOW DISTRIBUTION FOR SECNO= 92.44 CWSEL= 1366.61

STA=	937.	963.	968.	970.	1030.	1035.	1042.	1055.	1070.
PER Q=	4.7	3.6	1.8	79.2	3.9	3.5	3.0	.4	
AREA=	51.4	25.5	11.5	369.4	26.8	28.7	33.4	10.1	
VEL=	1.6	2.5	2.7	3.9	2.6	2.2	1.6	.8	

CCHV= .100 CEHV= .300

*SECNO 92.550

92.55	6.29	1366.59	.00	.00	1366.92	.33	.08	.04	1360.70
1800.	188.	1461.	151.	91.	293.	78.	90.	24.	1360.70
.45	2.07	4.99	1.94	.035	.020	.035	.000	1360.30	945.02
.000406	230.	170.	125.	2	0	0	.00	112.13	1057.15

FLOW DISTRIBUTION FOR SECNO= 92.55 CWSEL= 1366.59

STA=	945.	969.	974.	976.	1024.	1029.	1037.	1057.
PER Q=	5.2	3.5	1.7	81.2	3.8	3.2	1.4	
AREA=	53.9	25.5	11.5	292.6	26.8	28.8	22.4	
VEL=	1.7	2.5	2.7	5.0	2.6	2.0	1.1	

*SECNO 92.660

92.66	6.31	1366.71	.00	.00	1366.99	.28	.07	.00	1360.70
1800.	171.	1481.	148.	90.	320.	79.	92.	24.	1360.70
.46	1.90	4.62	1.87	.035	.020	.035	.000	1360.40	944.15
.000342	185.	185.	185.	2	0	0	.00	108.69	1052.85

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 92.66 CWSEL= 1366.71

STA=	944.	968.	974.	1026.	1036.	1053.
PER Q=	5.2	4.3	82.3	5.8	2.5	
AREA=	57.5	32.6	320.4	47.4	32.0	
VEL=	1.6	2.4	4.6	2.2	1.4	

*SECNO 92.770

92.77	6.25	1366.75	.00	.00	1367.07	.33	.07	.01	1360.80
1800.	149.	1526.	125.	73.	311.	60.	94.	25.	1360.80
.47	2.04	4.91	2.08	.035	.020	.035	.000	1360.50	950.27
.000392	185.	180.	170.	2	0	0	.00	94.97	1045.24

FLOW DISTRIBUTION FOR SECNO= 92.77 CWSEL= 1366.75

STA=	950.	970.	975.	1026.	1031.	1043.	1045.
PER Q=	4.3	3.9	84.8	3.9	3.0	.0	
AREA=	45.3	27.4	310.9	27.4	32.0	.8	
VEL=	1.7	2.6	4.9	2.6	1.7	.4	

*SECNO 92.880

92.88	6.15	1366.75	.00	.00	1367.12	.37	.04	.01	1360.80
1800.	163.	1515.	122.	72.	291.	56.	95.	25.	1360.80
.48	2.26	5.21	2.18	.035	.020	.035	.000	1360.60	953.74
.000446	85.	85.	85.	2	0	0	.00	88.52	1042.26

FLOW DISTRIBUTION FOR SECNO= 92.88 CWSEL= 1366.75

STA=	954.	970.	974.	976.	1024.	1028.	1037.	1042.
PER Q=	4.1	3.1	1.9	84.1	3.4	3.2	.2	
AREA=	39.4	21.0	11.7	290.6	22.2	29.3	4.6	
VEL=	1.9	2.7	2.9	5.2	2.7	2.0	.9	

CCHV= .300 CEHV= .500

*SECNO 928.800

928.80	6.87	1366.77	.00	.00	1367.14	.37	.02	.00	1372.20
1800.	0.	1800.	0.	0.	371.	0.	95.	25.	1372.70
.48	.00	4.85	.00	.035	.020	.035	.000	1359.90	973.00
.000442	50.	35.	30.	0	0	0	.00	54.00	1027.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QR0B	ALOB	ACH	AR0B	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VR0B	YNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOB	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 928.80 CWSEL= 1366.77

STA= 973. 1027.

PER Q= 100.0
 AREA= 371.0
 VEL= 4.9

*SECNO 928.900

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

D/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

928.90	6.84	1366.74	.00	.00	1367.17	.43	.00	.03	1372.20
1800.	0.	1800.	0.	0.	342.	0.	95.	25.	1372.70
.48	.00	5.26	.00	.035	.015	.035	.000	1359.90	973.00
.000586	2.	2.	2.	2	0	0	.00	50.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 928.90 CWSEL= 1366.74

STA= 973. 1027.

PER Q= 100.0
 AREA= 342.0
 VEL= 5.3

*SECNO 929.100

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

U/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

929.10	6.89	1366.79	.00	.00	1367.21	.42	.04	.00	1372.20
1800.	0.	1800.	0.	0.	344.	0.	96.	25.	1372.70
.48	.00	5.23	.00	.035	.015	.035	.000	1359.90	973.00
.000575	62.	62.	62.	1	0	0	.00	50.00	1027.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	YNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 929.10 CWSEL= 1366.79

STA= 973. 1027.

PER Q= 100.0
AREA= 344.1
VEL= 5.2

*SECNO 929.200

929.20	6.98	1366.88	.00	.00	1367.24	.35	.00	.02	1372.20
1800.	0.	1800.	0.	0.	377.	0.	96.	25.	1372.70
.48	.00	4.77	.00	.035	.035	.035	.000	1359.90	973.00
.001286	2.	2.	2.	2	0	0	.00	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 929.20 CWSEL= 1366.88

STA= 973. 1027.

PER Q= 100.0
AREA= 377.1
VEL= 4.8

*SECNO 929.800

0301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
0693 PROBABLE MINIMUM SPECIFIC ENERGY
0720 CRITICAL DEPTH ASSUMED

929.80	10.71	1370.81	1370.81	.00	1376.22	5.41	.12	2.53	1375.60
1800.	0.	1800.	0.	0.	96.	0.	96.	25.	1375.60
.48	.00	18.67	.00	.035	.035	.035	.000	1360.10	995.50
.041543	32.	32.	32.	20	14	0	.00	9.00	1004.50

FLOW DISTRIBUTION FOR SECNO= 929.80 CWSEL= 1370.81

STA= 995. 1005.

PER Q= 100.0
AREA= 95.4
VEL= 18.7

*SECNO 929.900

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	GLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VR0B	XLN	XLNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3280 CROSS SECTION 929.90 EXTENDED .79 FEET

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

3685 20 TRIALS ATTEMPTED WSEL, CWSEL

3720 CRITICAL DEPTH ASSUMED

D/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

929.90	16.39	1376.49	1376.49	.00	1376.76	.27	.02	1.54	1375.60
1800.	710.	379.	710.	248.	53.	248.	96.	25.	1375.60
.48	2.86	7.15	2.86	.035	.020	.035	.000	1360.10	700.00
.005734	2.	2.	2.	20	9	0	-94.50	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 929.90 CWSEL= 1376.49

STA= 700. 996. 1005. 1300.

PER Q=	39.5	21.1	39.5
AREA=	248.5	53.0	248.5
VEL=	2.9	7.2	2.9

3720 SECNO 930.100

3280 CROSS SECTION 930.10 EXTENDED 1.13 FEET

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

U/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

930.10	16.33	1376.83	.00	.00	1376.94	.11	.13	.05	1375.60
1800.	771.	257.	771.	349.	56.	349.	97.	25.	1375.60
.49	2.21	4.59	2.21	.035	.020	.035	.000	1360.50	700.00
.002190	40.	40.	40.	2	0	0	-90.90	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.10 CWSEL= 1376.83

STA= 700. 996. 1005. 1300.

PER Q=	42.9	14.3	42.9
AREA=	348.6	56.1	348.6
VEL=	2.2	4.6	2.2

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 930.200
 3280 CROSS SECTION 930.20 EXTENDED 1.14 FEET

930.20	16.34	1376.84	.00	.00	1376.94	.10	.00	.00	1375.60
1800.	619.	562.	619.	350.	147.	350.	97.	26.	1375.60
.49	1.77	3.82	1.77	.035	.035	.035	.000	1360.50	700.00
.001390	2.	2.	2.	0	0	0	.00	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.20 CWSEL= 1376.84

STA=	700.	996.	1005.	1300.
PER Q=	34.4	31.2	34.4	
AREA=	350.2	147.0	350.2	
VEL=	1.8	3.8	1.8	

*SECNO 930.500

930.50	17.06	1376.96	.00	.00	1376.97	.01	.00	.03	1367.40
1800.	192.	1416.	192.	711.	1526.	711.	99.	26.	1367.40
.51	.27	.93	.27	.055	.030	.055	.000	1359.90	806.23
.000010	50.	50.	50.	2	0	0	.00	387.53	1193.77

FLOW DISTRIBUTION FOR SECNO= 930.50 CWSEL= 1376.96

STA=	806.	900.	950.	1050.	1100.	1194.
PER Q=	3.1	7.5	78.7	7.5	3.1	
AREA=	307.7	403.2	1526.4	403.2	307.7	
VEL=	.2	.3	.9	.3	.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	YNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*PROF 2

CCHV= 100 CEHV= .300
 *SECNO 12.430

FEMA X-SECTION

12.43	9.45	1361.75	.00	1361.75	1361.77	.02	.00	.00	1368.20
2655.	0.	2090.	565.	0.	1633.	1033.	0.	0.	1359.90
.00	.00	1.28	.55	.050	.060	.060	.000	1352.30	10007.33
.000167	290.	280.	260.	0	0	0	.00	1097.17	11104.50

FLOW DISTRIBUTION FOR SECNO= 12.43 CWSEL= 1361.75

STA=	10007.	10207.	10211.	10330.	10430.	10515.	11080.	11104.
PER Q=	78.7	.3	10.8	6.7	2.4	1.2	.0	
AREA=	1632.8	11.8	398.7	290.0	140.2	197.7	4.3	
VEL=	1.3	.6	.7	.6	.4	.2	.1	

*SECNO 12.610

FEMA X-SECTION 'AJ'

12.61	8.95	1361.95	.00	.00	1362.01	.05	.23	.01	1361.80
2655.	0.	2655.	0.	3.	1454.	0.	45.	15.	1362.00
.14	.11	1.83	.00	.045	.050	.045	.000	1353.00	10161.57
.000363	920.	950.	950.	2	0	0	.00	288.22	10449.79

FLOW DISTRIBUTION FOR SECNO= 12.61 CWSEL= 1361.95

STA=	10162.	10200.	10450.
PER Q=	.0	100.0	
AREA=	3.0	1454.3	
VEL=	.1	1.8	

490 NH CARD USED

*SECNO 12.970

FEMA X-SECTION 'AK'

12.97	10.13	1362.93	.00	.00	1363.06	.13	1.03	.02	1356.30
2655.	1904.	751.	0.	735.	209.	0.	93.	26.	1363.00
.31	2.59	3.60	.00	.049	.045	.045	.000	1352.00	10166.96
.001163	1400.	1900.	1900.	2	0	0	.00	267.92	10434.88

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 12.97 CWSEL= 1362.93

STA=	10167.	10200.	10300.	10402.	10435.
PER Q=	.4	14.9	56.4	28.3	
AREA=	15.3	212.5	507.5	208.6	
VEL=	.7	1.9	3.0	3.6	

CCHV= .100 CEHV= .200

*SECNO 92.110

3280 CROSS SECTION 92.11 EXTENDED .26 FEET

92.11	7.26	1365.26	.00	.00	1365.84	.58	2.70	.09	1359.00
2655.	735.	842.	1078.	150.	108.	201.	119.	33.	1359.00
.38	4.89	7.79	5.36	.040	.035	.040	.000	1358.00	947.00
.002659	1535.	1675.	1645.	3	0	0	.00	123.05	1070.05

FLOW DISTRIBUTION FOR SECNO= 92.11 CWSEL= 1365.26

STA=	947.	969.	977.	983.	992.	1008.	1030.	1035.	1040.	1062.	1070.
PER Q=	4.7	5.2	5.8	12.0	31.7	29.4	4.8	3.2	3.2	.0	
AREA=	39.7	30.1	28.6	51.8	108.2	126.7	23.8	18.8	30.7	1.0	
VEL=	3.2	4.6	5.4	6.1	7.8	6.2	5.4	4.6	2.8	.5	

*SECNO 92.220

92.22	7.60	1366.10	.00	.00	1367.02	.92	1.11	.07	1360.80
2655.	962.	748.	945.	145.	77.	137.	121.	33.	1360.80
.40	6.63	9.67	6.92	.040	.040	.040	.000	1358.50	946.60
.006180	285.	290.	285.	3	0	0	.00	115.99	1062.59

FLOW DISTRIBUTION FOR SECNO= 92.22 CWSEL= 1366.10

STA=	947.	974.	984.	991.	994.	1006.	1016.	1022.	1026.	1032.	1060.	1063.
PER Q=	12.1	9.3	9.7	5.1	28.2	17.2	8.3	3.6	3.2	3.2	.0	
AREA=	61.2	36.0	32.2	15.6	77.4	52.0	27.6	14.4	15.6	26.8	.1	
VEL=	5.2	6.8	8.0	8.8	9.7	8.8	8.0	6.7	5.5	3.2	.4	

*SECNO 92.330

92.33	6.70	1366.70	.00	.00	1367.72	1.02	.68	.02	1360.60
2655.	545.	1700.	409.	119.	179.	82.	123.	34.	1360.60
.40	4.58	9.48	4.99	.040	.030	.040	.000	1360.00	937.65
.003083	165.	160.	160.	2	0	0	.00	107.11	1044.75

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 92.33 CWSEL= 1366.70

STA=	938.	970.	979.	984.	986.	1014.	1020.	1024.	1033.	1045.
PER Q=	5.6	6.0	6.0	3.0	64.0	7.7	3.3	3.8		.5
AREA=	48.6	32.8	26.0	11.8	179.4	32.6	16.8	24.8		7.6
VEL=	3.1	4.9	6.1	6.7	9.5	6.3	5.3	4.1		1.8

*SECNO 92.440

3301 HV CHANGED MORE THAN HVINS

92.44	7.47	1367.67	.00	.00	1367.94	.27	.14	.07	1360.70
2655.	308.	2001.	345.	127.	433.	150.	124.	34.	1360.70
.41	2.43	4.62	2.31	.040	.030	.040	.000	1360.20	930.96
.000622	120.	120.	125.	2	0	0	.00	154.83	1085.78

FLOW DISTRIBUTION FOR SECNO= 92.44 CWSEL= 1367.67

STA=	931.	959.	968.	970.	1030.	1035.	1042.	1055.	1086.
PER Q=	4.2	5.7	1.7	75.4	3.8	3.8	3.9	1.5	
AREA=	61.5	51.6	13.6	433.4	32.2	35.2	47.3	34.1	
VEL=	1.8	2.9	3.3	4.6	3.1	2.8	2.2	1.2	

CCHV= .100 CEHV= .300

*SECNO 92.550

92.55	7.33	1367.63	.00	.00	1368.09	.46	.09	.06	1360.70
2655.	315.	2069.	270.	126.	342.	119.	127.	35.	1360.70
.42	2.51	6.04	2.26	.035	.020	.035	.000	1360.30	939.83
.000482	230.	170.	125.	2	0	0	.00	131.68	1071.51

FLOW DISTRIBUTION FOR SECNO= 92.55 CWSEL= 1367.63

STA=	940.	964.	974.	976.	1024.	1029.	1037.	1072.
PER Q=	4.0	6.2	1.7	77.9	3.8	3.6	2.8	
AREA=	55.8	56.3	13.6	342.4	32.0	37.1	50.4	
VEL=	1.9	2.9	3.3	6.0	3.1	2.6	1.5	

*SECNO 92.560

92.55	7.38	1367.78	.00	.00	1368.18	.41	.08	.01	1360.70
2655.	289.	2110.	256.	124.	376.	117.	129.	35.	1360.70
.43	2.33	5.61	2.19	.035	.020	.035	.000	1360.40	939.90
.000409	185.	185.	185.	2	0	0	.00	134.28	1074.18

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 92.66 CWSEL= 1367.78

STA=	940.	963.	972.	974.	1026.	1036.	1050.	1074.
PER Q=	4.0	5.3	1.6	79.5	6.0	3.3	.3	
AREA=	58.7	51.5	13.9	375.8	58.1	45.9	12.9	
VEL=	1.8	2.7	3.1	5.6	2.7	1.9	.7	

*SECNO 92.770

92.77	7.30	1367.80	.00	.00	1368.28	.48	.08	.02	1360.80
2655.	252.	2193.	209.	101.	365.	84.	132.	36.	1360.80
.44	2.49	6.01	2.50	.035	.020	.035	.000	1360.50	945.79
.000475	185.	180.	170.	2	0	0	.00	106.63	1052.42

FLOW DISTRIBUTION FOR SECNO= 92.77 CWSEL= 1367.80

STA=	946.	966.	973.	975.	1026.	1031.	1040.	1052.
PER Q=	3.4	4.4	1.7	82.6	3.9	3.4	.6	
AREA=	47.4	40.1	13.8	364.8	32.7	37.7	13.4	
VEL=	1.9	2.9	3.3	6.0	3.2	2.4	1.2	

*SECNO 92.880

92.88	7.20	1367.80	.00	.00	1368.34	.54	.04	.02	1360.80
2655.	270.	2180.	205.	97.	341.	77.	133.	36.	1360.80
.44	2.77	6.40	2.67	.035	.020	.035	.000	1360.60	949.79
.000543	85.	85.	85.	2	0	0	.00	95.62	1045.41

FLOW DISTRIBUTION FOR SECNO= 92.88 CWSEL= 1367.80

STA=	950.	970.	974.	976.	1024.	1028.	1037.	1045.
PER Q=	5.2	3.1	1.9	82.1	3.3	3.8	.6	
AREA=	58.4	25.2	13.8	340.9	26.4	38.7	11.8	
VEL=	2.3	3.3	3.6	6.4	3.4	2.6	1.4	

CCHV= .300 CEHV= .500

*SECNO 928.800

928.80	7.89	1367.79	.00	.00	1368.40	.60	.02	.03	1372.20
2655.	0.	2655.	0.	0.	426.	0.	133.	36.	1372.70
.44	.00	6.23	.00	.035	.020	.035	.000	1359.90	973.00
.000630	50.	35.	30.	2	0	0	.00	54.00	1027.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 928.80 CWSEL= 1367.79

STA= 973. 1027.
 PER Q= 100.0
 AREA= 426.2
 VEL= 6.2

*SECNO 928.900

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

D/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

928.90	7.84	1367.74	.00	.00	1368.45	.71	.00	.05	1372.20
2655.	0.	2655.	0.	0.	392.	0.	133.	36.	1372.70
.44	.00	6.77	.00	.035	.015	.035	.000	1359.90	973.00
.001055	2.	2.	2.	2	0	0	.00	50.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 928.90 CWSEL= 1367.74

STA= 973. 1027.
 PER Q= 100.0
 AREA= 392.0
 VEL= 6.8

*SECNO 929.100

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

U/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

929.10	7.92	1367.82	.00	.00	1368.52	.70	.06	.00	1372.20
2655.	0.	2655.	0.	0.	396.	0.	134.	36.	1372.70
.45	.00	6.70	.00	.035	.015	.035	.000	1359.90	973.00
.001027	62.	62.	62.	2	0	0	.00	50.00	1027.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 929.10 CWSEL= 1367.82

STA= 973. 1027.

PER Q= 100.0

AREA= 396.2

VEL= 6.7

*SECNO 929.200

929.20	8.09	1367.99	.00	.00	1368.56	.57	.00	.04	1372.20
2655.	0.	2655.	0.	0.	437.	0.	134.	36.	1372.70
.45	.00	6.08	.00	.035	.035	.035	.000	1359.90	973.00
.001791	2.	2.	2.	2	0	0	.00	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 929.20 CWSEL= 1367.99

STA= 973. 1027.

PER Q= 100.0

AREA= 436.7

VEL= 6.1

*SECNO 929.800

0301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

0693 PROBABLE MINIMUM SPECIFIC ENERGY

0720 CRITICAL DEPTH ASSUMED

929.80	13.88	1373.98	1373.98	.00	1380.99	7.01	.16	3.22	1375.60
2655.	0.	2655.	0.	0.	125.	0.	134.	36.	1375.60
.45	.00	21.25	.00	.035	.035	.035	.000	1360.10	995.50
.049043	32.	32.	32.	20	14	0	.00	9.00	1004.50

FLOW DISTRIBUTION FOR SECNO= 929.80 CWSEL= 1373.98

STA= 996. 1005.

PER Q= 100.0

AREA= 124.9

VEL= 21.3

*SECNO 929.900

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3290 CROSS SECTION 929.90 EXTENDED .87 FEET

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3720 CRITICAL DEPTH ASSUMED

D/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

929.90	16.47	1376.57	1376.57	.00	1377.03	.46	.04	1.97	1375.60
2655.	1075.	505.	1075.	272.	54.	272.	134.	36.	1375.60
.45	3.95	9.40	3.95	.035	.020	.035	.000	1360.10	700.00
.009729	2.	2.	2.	20	9	0	-94.50	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 929.90 CWSEL= 1376.57

STA= 700. 996. 1005. 1300.

PER Q=	40.5	19.0	40.5
AREA=	271.9	53.7	271.9
VEL=	4.0	9.4	4.0

*SECNO 930.100

3280 CROSS SECTION 930.10 EXTENDED 1.46 FEET

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

U/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

930.10	16.65	1377.15	.00	.00	1377.29	.14	.17	.10	1375.60
2655.	1184.	286.	1184.	445.	59.	445.	135.	37.	1375.60
.45	2.66	4.85	2.66	.035	.020	.035	.000	1360.50	700.00
.002286	40.	40.	40.	2	0	0	-90.90	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.10 CWSEL= 1377.15

STA= 700. 996. 1005. 1300.

PER Q=	44.6	10.8	44.6
AREA=	445.3	59.0	445.3
VEL=	2.7	4.8	2.7

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 930.200

3280 CROSS SECTION 930.20 EXTENDED 1.46 FEET

930.20	16.67	1377.17	.00	.00	1377.30	.13	.00	.00	1375.60
2655.	1012.	631.	1012.	447.	150.	447.	135.	37.	1375.60
.45	2.26	4.21	2.26	.035	.035	.035	.000	1360.50	700.00
.001643	2.	2.	2.	0	0	0	.00	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.20 CWSEL= 1377.17

STA= 700. 996. 1005. 1300.

PER Q=	38.1	23.8	38.1
AREA=	447.4	150.0	447.4
VEL=	2.3	4.2	2.3

*SECNO 930.500

930.50	17.41	1377.31	.00	.00	1377.33	.02	.00	.03	1367.40
2655.	295.	2065.	295.	761.	1561.	761.	137.	37.	1367.40
.46	.39	1.32	.39	.055	.030	.055	.000	1359.90	801.29
.000019	50.	50.	50.	2	0	0	.00	397.41	1198.71

FLOW DISTRIBUTION FOR SECNO= 930.50 CWSEL= 1377.31

STA= 801. 900. 950. 1050. 1100. 1199.

PER Q=	3.4	7.7	77.8	7.7	3.4
AREA=	341.0	420.5	1560.9	420.5	341.0
VEL=	.3	.5	1.3	.5	.3

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	QLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*PROF 3

CCHV= .100 CEHV= .300
*SECNO 12.430

FEMA X-SECTION

12.43	9.95	1362.25	.00	1362.25	1362.27	.02	.00	.00	1368.20
3235.	0.	2367.	968.	0.	1733.	1490.	0.	0.	1359.90
.00	.00	1.37	.58	.050	.060	.060	.000	1352.30	10006.76
.000177	290.	280.	260.	0	0	0	.00	1132.74	11139.50

FLOW DISTRIBUTION FOR SECNO= 12.43 CWSEL= 1362.25

STA=	10007.	10207.	10211.	10330.	10430.	10515.	11000.	11139.
PER Q=	73.2	.3	11.5	7.4	3.1	4.4	.1	
AREA=	1732.8	13.8	458.2	330.0	182.7	480.2	25.3	
VEL=	1.4	.7	.8	.7	.5	.3	.2	

*SECNO 12.610

FEMA X-SECTION 'AJ'

12.61	9.46	1362.46	.00	.00	1362.53	.06	.24	.01	1361.80
3235.	22.	3212.	2.	63.	1582.	6.	53.	18.	1362.00
.13	.34	2.03	.25	.045	.050	.045	.000	1353.00	9995.62
.000401	920.	950.	950.	2	0	0	.00	480.89	10476.51

FLOW DISTRIBUTION FOR SECNO= 12.61 CWSEL= 1362.46

STA=	9996.	10100.	10200.	10450.	10477.
PER Q=	.1	.6	99.3	.0	
AREA=	16.5	46.4	1581.8	6.2	
VEL=	.2	.4	2.0	.2	

1490 NH CARD USED

*SECNO 12.970

FEMA X-SECTION 'AK'

12.97	10.69	1363.49	.00	.00	1363.63	.14	1.08	.02	1356.30
3235.	2382.	852.	0.	874.	227.	1.	108.	32.	1363.00
.29	2.73	3.75	.39	.049	.045	.050	.000	1352.80	10146.80
.001132	1400.	1900.	1900.	2	0	0	.00	290.64	10437.45

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	YNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 12.97 CWSEL= 1363.49

STA= 10147. 10200. 10300. 10402. 10435. 10437.

PER Q=	1.1	17.9	54.7	26.3	0
AREA=	39.6	269.0	565.0	227.3	.6
VEL=	.9	2.1	3.1	3.8	.4

CCHV= .100 CEHV= .200

*SECNO 92.110

9200 CROSS SECTION 92.11 EXTENDED .78 FEET

9301 HV CHANGED MORE THAN HVINS

92.11	7.78	1365.78	.00	.00	1366.44	.66	2.70	.10	1359.00
3235.	925.	976.	1334.	174.	115.	237.	137.	39.	1359.00
.36	5.33	8.38	5.62	.040	.035	.040	.000	1358.00	947.00
.002793	1535.	1675.	1645.	3	0	0	.00	139.12	1086.12

FLOW DISTRIBUTION FOR SECNO= 92.11 CWSEL= 1365.78

STA= 947. 969. 977. 983. 992. 1008. 1030. 1035. 1040. 1050. 1086.

PER Q=	5.8	5.4	5.8	11.6	30.2	28.5	4.8	3.4	3.1	1.4
AREA=	51.1	34.2	31.7	56.5	116.5	139.1	26.4	21.4	26.8	24.7
VEL=	3.6	5.1	5.9	6.7	8.4	6.7	5.9	5.1	3.8	1.8

*SECNO 92.220

92.22	8.16	1366.66	.00	.00	1367.61	.95	1.12	.06	1360.80
3235.	1208.	834.	1193.	172.	84.	172.	140.	40.	1360.80
.37	7.02	9.92	6.93	.040	.040	.040	.000	1358.50	944.37
.005828	285.	290.	285.	3	0	0	.00	132.72	1077.09

FLOW DISTRIBUTION FOR SECNO= 92.22 CWSEL= 1366.66

STA= 944. 974. 984. 991. 994. 1006. 1016. 1022. 1026. 1032. 1042. 1077.

PER Q=	13.7	9.4	9.4	4.9	25.8	16.2	-8.0	3.7	3.5	3.1	2.2
AREA=	77.1	41.6	36.1	17.3	84.1	57.6	30.9	16.6	18.9	21.6	26.4
VEL=	5.8	7.3	8.4	9.1	9.9	9.1	8.4	7.2	6.0	4.7	2.7

*SECNO 92.330

92.33	7.17	1367.17	.00	.00	1368.36	1.18	.70	.05	1360.60
3235.	719.	1992.	524.	143.	193.	98.	142.	41.	1360.60
.37	5.03	10.35	5.37	.040	.030	.040	.000	1360.00	933.24
.003343	165.	160.	160.	2	0	0	.00	117.04	1050.28

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 92.33 CWSEL= 1367.17

STA=	933.	970.	979.	984.	986.	1014.	1020.	1024.	1033.	1050.
PER Q=	7.2	6.3	5.9	2.9	61.6	7.6	3.4	4.2	1.0	
AREA=	64.8	37.1	28.4	12.8	192.5	35.5	18.7	29.1	14.3	
VEL=	3.6	5.5	6.7	7.3	10.3	6.9	5.9	4.7	2.2	

*SECNO 92.440

3301 HV CHANGED MORE THAN HVINS

92.44	8.00	1368.28	.00	.00	1368.60	.32	.15	.09	1360.70
3235.	403.	2367.	464.	152.	470.	189.	144.	41.	1360.70
.38	2.65	5.04	2.45	.040	.030	.040	.000	1360.20	926.14
.000664	120.	120.	125.	2	0	0	.00	187.07	1113.20

FLOW DISTRIBUTION FOR SECNO= 92.44 CWSEL= 1368.28

STA=	926.	955.	963.	968.	970.	1030.	1035.	1042.	1055.	1113.
PER Q=	3.5	3.7	3.6	1.7	73.2	3.7	3.8	4.3	2.5	
AREA=	60.9	42.3	33.9	14.9	470.2	35.2	40.5	55.2	58.5	
VEL=	1.9	2.9	3.4	3.6	5.0	3.4	3.1	2.5	1.4	

CCHV= .100 CEHV= .300

*SECNO 92.550

3200 CROSS SECTION 92.55 EXTENDED .23 FEET

92.55	7.92	1368.22	.00	.00	1368.77	.55	.10	.07	1360.70
3235.	408.	2460.	366.	148.	371.	150.	147.	42.	1360.70
.39	2.76	6.64	2.45	.035	.020	.035	.000	1360.30	937.10
.000522	230.	170.	125.	2	0	0	.00	139.90	1077.00

FLOW DISTRIBUTION FOR SECNO= 92.55 CWSEL= 1368.22

STA=	937.	964.	974.	976.	1024.	1029.	1037.	1062.	1077.
PER Q=	4.7	6.3	1.7	76.1	3.7	3.7	3.6	.3	
AREA=	71.0	62.3	14.8	370.8	34.9	41.8	62.1	10.9	
VEL=	2.1	3.3	3.6	6.6	3.5	2.9	1.9	.8	

*SECNO 92.660

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	GLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3280 CROSS SECTION 92.66 EXTENDED .38 FEET

92.66	7.98	1368.38	.00	.00	1368.86	.48	.09	.01	1360.70
3235.	375.	2515.	345.	145.	497.	149.	150.	42.	1360.70
.40	2.58	6.17	2.32	.035	.020	.035	.000	1360.40	937.85
.000444	185.	185.	185.	2	0	0	.00	142.15	1080.00

FLOW DISTRIBUTION FOR SECNO= 92.66 CWSEL= 1368.38

STA=	938.	963.	972.	974.	1026.	1036.	1050.	1080.
PER Q=	4.7	5.3	1.6	77.7	6.0	3.8	.9	
AREA=	73.4	56.9	15.1	497.3	64.1	54.4	30.5	
VEL=	2.1	3.0	3.4	6.2	3.0	2.2	.9	

*SECNO 92.770

3280 CROSS SECTION 92.77 EXTENDED .40 FEET

92.77	7.90	1368.40	.00	.00	1368.98	.58	.09	.03	1360.80
3235.	330.	2632.	274.	120.	395.	100.	152.	43.	1360.80
.41	2.76	6.66	2.73	.035	.020	.035	.000	1360.50	943.01
.000524	185.	180.	170.	2	0	0	.00	110.99	1054.00

FLOW DISTRIBUTION FOR SECNO= 92.77 CWSEL= 1368.40

STA=	943.	966.	973.	975.	1026.	1031.	1040.	1054.
PER Q=	4.0	4.4	1.7	81.4	3.9	3.6	1.0	
AREA=	60.3	44.3	15.0	395.2	35.7	43.1	21.6	
VEL=	2.2	3.2	3.7	6.7	3.5	2.7	1.4	

*SECNO 92.880

3280 CROSS SECTION 92.88 EXTENDED .40 FEET

92.88	7.79	1368.39	.00	.00	1369.05	.66	.05	.02	1360.80
3235.	347.	2621.	266.	113.	369.	90.	153.	43.	1360.80
.41	3.06	7.10	2.96	.035	.020	.035	.000	1360.60	947.83
.000602	85.	85.	85.	2	0	0	.00	99.34	1047.17

FLOW DISTRIBUTION FOR SECNO= 92.88 CWSEL= 1368.39

STA=	948.	966.	974.	975.	1024.	1028.	1034.	1047.
PER Q=	3.3	5.6	1.8	81.0	3.3	3.1	1.8	
AREA=	47.4	51.1	15.0	369.1	28.8	32.3	28.9	
VEL=	2.3	3.5	4.0	7.1	3.7	3.1	2.0	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

CCHV= .300 CEHV= .500

*SECNO 928.800

928.80	8.46	1368.36	.00	.00	1369.13	.78	.02	.06	1372.20
3235.	0.	3235.	0.	0.	457.	0.	154.	43.	1372.70
.41	.00	7.09	.00	.035	.020	.035	.000	1359.90	973.00
.000759	50.	35.	30.	2.	0	0	.00	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 928.80 CWSEL= 1368.36

STA= 973. 1027.

PER Q= 100.0

AREA= 456.6

VEL= 7.1

*SECNO 928.900

3370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

D/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

928.90	8.34	1368.24	.00	.00	1369.26	1.02	.00	.12	1372.20
3235.	0.	3235.	0.	0.	400.	0.	154.	43.	1372.70
.41	.00	8.09	.00	.035	.015	.035	.000	1359.90	973.00
.002298	2.	2.	2.	2	0	0	-18.33	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 928.90 CWSEL= 1368.24

STA= 973. 1027.

PER Q= 100.0

AREA= 400.0

VEL= 8.1

*SECNO 929.100

3370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

U/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

929.10	8.48	1368.38	.00	.00	1369.40	1.02	.14	.00	1372.20
3235.	0.	3235.	0.	0.	400.	0.	155.	43.	1372.70
.42	.00	8.09	.00	.035	.015	.035	.000	1359.90	973.00
.002298	62.	62.	62.	2	0	0	-26.02	54.00	1027.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 929.10 CWSEL= 1368.38

STA= 973. 1027.
 PER Q= 100.0
 AREA= 400.0
 VEL= 8.1

*SECNO 929.200

929.20	8.09	1368.79	.00	.00	1369.50	.70	.00	.09	1372.20
3235.	0.	3235.	0.	0.	480.	0.	155.	43.	1372.70
.42	.00	6.73	.00	.035	.035	.035	.000	1359.90	973.00
.001996	2.	2.	2.	2	0	0	.00	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 929.20 CWSEL= 1368.79

STA= 973. 1027.
 PER Q= 100.0
 AREA= 480.3
 VEL= 6.7

*SECNO 929.800
 3280 CROSS SECTION 929.80 EXTENDED .88 FEET

3585 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

929.80	15.48	1376.58	1376.58	.00	1377.18	.60	.11	.03	1375.60
3235.	965.	1306.	965.	276.	148.	276.	155.	44.	1375.60
.42	3.50	8.80	3.50	.035	.035	.035	.000	1360.10	700.00
.007489	32.	32.	32.	20	36	0	.00	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 929.80 CWSEL= 1376.58

STA= 700. 996. 1005. 1300.
 PER Q= 29.8 40.4 29.8
 AREA= 275.6 148.3 275.6
 VEL= 3.5 8.8 3.5

*SECNO 929.900
 3280 CROSS SECTION 929.90 EXTENDED .89 FEET

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

D/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

929.90	16.49	1376.59	1376.59	.00	1377.23	.64	.02	.02	1375.60
3235.	1318.	599.	1318.	278.	54.	278.	155.	44.	1375.60
.42	4.73	11.10	4.73	.035	.020	.035	.000	1360.10	700.00
.013515	2.	2.	2.	1	9	0	-94.50	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 929.90 CWSEL= 1376.59

STA=	700.	996.	1005.	1300.
PER Q=	40.7	18.5	40.7	
AREA=	278.4	53.9	278.4	
VEL=	4.7	11.1	4.7	

*SECNO 930.100

3280 CROSS SECTION 930.10 EXTENDED 1.71 FEET

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

U/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)

930.10	16.91	1377.41	.00	.00	1377.55	.14	.17	.15	1375.60
3235.	1471.	292.	1471.	520.	61.	520.	156.	44.	1375.60
.42	2.83	4.77	2.83	.035	.020	.035	.000	1360.50	700.00
.002100	40.	40.	40.	2	0	0	-90.90	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.10 CWSEL= 1377.41

STA=	700.	996.	1005.	1300.
PER Q=	45.5	9.0	45.5	
AREA=	520.5	61.3	520.5	
VEL=	2.8	4.8	2.8	

*SECNO 930.200

3280 CROSS SECTION 930.20 EXTENDED 1.72 FEET

930.20	16.93	1377.43	.00	.00	1377.56	.13	.00	.00	1375.60
3235.	1298.	640.	1298.	524.	152.	524.	156.	44.	1375.60
.42	2.48	4.20	2.48	.035	.035	.035	.000	1360.50	700.00
.001602	2.	2.	2.	0	0	0	.00	600.00	1300.00

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 930.20 CWSEL= 1377.43

STA=	700.	996.	1005.	1300.
PER Q=	40.1	19.8	40.1	
AREA=	523.6	152.3	523.6	
VEL=	2.5	4.2	2.5	

*SECNO 930.500

3280 CROSS SECTION 930.50 EXTENDED .16 FEET

930.50	17.66	1377.56	.00	.00	1377.59	.03	.00	.03	1367.40
3235.	371.	2493.	371.	799.	1586.	799.	158.	45.	1367.40
.43	.46	1.57	.46	.055	.030	.055	.000	1359.90	800.00
.000026	50.	50.	50.	2	0	0	.00	400.00	1200.00

FLOW DISTRIBUTION FOR SECNO= 930.50 CWSEL= 1377.56

STA=	800.	900.	950.	1050.	1100.	1200.
PER Q=	3.7	7.8	77.1	7.8	3.7	
AREA=	366.3	433.1	1586.3	433.1	366.3	
VEL=	.3	.6	1.6	.6	.3	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*PROF 4

CCHV= .100 CEHV= .300
*KSECNO 12.430

FEMA X-SECTION

12.43	10.80	1363.10	.00	1363.10	1363.13	.03	.00	.00	1368.20
4595.	0.	3014.	1681.	0.	1903.	2308.	0.	0.	1359.90
.00	.00	1.58	.73	.050	.060	.060	.000	1352.30	10005.80
.000211	290.	280.	260.	0	0	0	.00	1193.20	11199.00

FLOW DISTRIBUTION FOR SECNO= 12.43 CWSEL= 1363.10

STA=	10005.	10207.	10211.	10330.	10430.	10515.	11080.	11199.
PER Q=	64.2	.3	12.0	8.2	4.1	10.5	.7	
AREA=	1903.4	17.2	559.3	415.0	255.0	960.5	101.1	
VEL=	1.6	.9	1.0	.9	.7	.5	.3	

*KSECNO 12.610

FEMA X-SECTION 'AJ'

12.61	10.35	1363.35	.00	.00	1363.44	.09	.29	.02	1361.80
4695.	215.	4450.	30.	271.	1803.	52.	69.	19.	1362.00
.11	.79	2.47	.57	.045	.050	.045	.000	1353.00	9934.96
.000498	920.	950.	950.	2	0	0	.00	592.21	10527.17

FLOW DISTRIBUTION FOR SECNO= 12.61 CWSEL= 1363.35

STA=	9935.	10000.	10100.	10200.	10450.	10527.
PER Q=	.3	1.7	2.6	94.8	.6	
AREA=	30.9	105.1	135.1	1803.5	52.1	
VEL=	.4	.8	.9	2.5	.6	

490 NH CARD USED

*KSECNO 12.970

9265 DIVIDED FLOW

FEMA X-SECTION 'AK'

12.97	11.73	1364.53	.00	.00	1364.71	.18	1.24	.03	1356.30
4695.	3572.	1099.	24.	1159.	262.	48.	139.	40.	1363.00
.25	3.08	4.20	.50	.048	.045	.050	.000	1352.00	10109.57
.001177	1400.	1900.	1900.	2	0	0	.00	510.96	10650.46

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 12.97 CWSEL= 1364.53

STA=	10110.	10200.	10300.	10402.	10435.	10650.
PER Q=	3.2	21.7	51.2	23.4	5	
AREA=	114.5	373.2	671.4	261.7	48.3	
VEL=	1.3	2.7	3.6	4.2	5	

CCHV= .100 CEHV= .200

*SECNO 92.110

3280 CROSS SECTION 92.11 EXTENDED 1.87 FEET

3301 HV CHANGED MORE THAN HVINS

92.11	8.87	1366.87	.00	.00	1367.67	.80	2.83	.12	1359.00
4695.	1384.	1274.	2036.	223.	134.	341.	179.	53.	1359.00
.32	6.22	9.52	5.97	.040	.035	.040	.000	1358.00	947.00
.002990	1535.	1675.	1645.	3	0	0	.00	173.74	1120.74

FLOW DISTRIBUTION FOR SECNO= 92.11 CWSEL= 1366.87

STA=	947.	961.	969.	977.	983.	992.	1008.	1030.	1035.	1040.	1050.	1093.	1121.
PER Q=	3.4	4.0	5.7	5.6	10.8	27.1	26.5	4.7	3.5	3.9	4.4	.3	
AREA=	40.1	34.9	42.9	38.2	66.3	133.9	162.1	31.8	26.8	37.7	70.8	12.0	
VEL=	3.9	5.4	6.2	6.9	7.7	9.5	7.7	6.9	6.1	4.9	2.9	1.2	

*SECNO 92.220

92.22	9.30	1367.80	.00	.00	1368.83	1.03	1.11	.05	1360.80
4695.	1791.	1021.	1883.	232.	98.	267.	183.	54.	1360.80
.33	7.71	10.44	7.04	.040	.040	.040	.000	1358.50	938.16
.005265	285.	290.	285.	2	0	0	.00	159.94	1098.10

FLOW DISTRIBUTION FOR SECNO= 92.22 CWSEL= 1367.80

STA=	938.	974.	984.	991.	994.	1006.	1016.	1022.	1026.	1032.	1042.	1050.	1098.
PER Q=	16.0	9.2	8.6	4.3	21.8	14.4	7.3	3.6	3.9	4.2	4.2	2.5	
AREA=	114.5	53.1	44.1	20.7	97.9	69.1	37.8	21.2	25.8	33.1	41.5	38.9	
VEL=	6.6	8.2	9.1	9.8	10.4	9.8	9.1	8.0	7.1	6.0	4.7	3.0	

*SECNO 92.330

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3301 HV CHANGED MORE THAN HVINS

92.33	8.09	1368.09	.00	.00	1369.67	1.58	.74	.11	1360.60	
4695.	1180.	2677.	839.	196.	218.	136.	185.	54.	1360.60	
.33	6.03	12.27	6.15	.040	.030	.040	.000	1360.00	924.63	
.003974	165.	160.	160.	3	0	0	.00	137.48	1052.11	

FLOW DISTRIBUTION FOR SECNO= 92.33 CWSEL= 1368.09

STA=	925.	955.	970.	975.	979.	984.	996.	1014.	1020.	1024.	1029.	1048.	1052.
PER Q=	3.9	6.3	3.1	3.4	5.7	2.7	57.0	7.2	3.4	3.1	3.8	.3	
AREA=	48.8	53.9	23.0	22.4	33.0	14.6	218.2	41.0	22.4	23.0	42.3	7.8	
VEL=	3.7	5.5	6.4	7.2	8.1	8.7	12.3	8.3	7.2	6.4	4.2	1.6	

*SECNO 92.440
 8280 CROSS SECTION 92.44 EXTENDED 1.16 FEET

3301 HV CHANGED MORE THAN HVINS

92.44	9.36	1369.56	.00	.00	1369.96	.40	.17	.12	1360.70	
4695.	659.	3201.	836.	215.	546.	306.	187.	55.	1360.70	
.34	3.06	5.86	2.73	.040	.030	.040	.000	1360.20	916.21	
.000735	120.	120.	125.	3	0	0	.00	205.79	1122.00	

FLOW DISTRIBUTION FOR SECNO= 92.44 CWSEL= 1369.56

STA=	916.	949.	959.	969.	970.	1030.	1035.	1042.	1055.	1075.	1122.
PER Q=	3.3	3.6	5.6	1.6	68.2	3.6	3.9	4.8	3.3	2.2	
AREA=	74.5	54.6	68.5	17.4	546.5	41.6	49.4	71.8	68.2	75.0	
VEL=	2.0	3.1	3.8	4.2	5.9	4.0	3.7	3.1	2.3	1.4	

CCHV= .100 CEHV= .300
 *SECNO 92.550
 8280 CROSS SECTION 92.55 EXTENDED 1.44 FEET

92.55	9.13	1369.43	.00	.00	1370.18	.75	.11	.10	1360.70	
4695.	657.	3400.	637.	198.	429.	214.	191.	55.	1360.70	
.34	3.32	7.93	2.98	.035	.020	.035	.000	1360.30	932.26	
.000614	230.	170.	125.	2	0	0	.00	144.74	1077.00	

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 92.55 CWSEL= 1369.43

STA=	932.	959.	969.	974.	976.	1024.	1029.	1037.	1050.	1077.
PER Q=	4.0	4.9	3.5	1.6	72.4	3.7	3.9	3.4	2.6	
AREA=	76.8	64.4	39.7	17.2	428.9	41.0	51.5	57.2	64.3	
VEL=	2.4	3.6	4.1	4.4	7.9	4.2	3.6	2.8	1.9	

*SECNO 92.660

3280 CROSS SECTION 92.66 EXTENDED 1.63 FEET

92.66	9.23	1369.63	.00	.00	1370.29	.67	.10	.01	1360.70
4695.	603.	3491.	602.	192.	472.	216.	195.	56.	1360.70
.35	3.14	7.40	2.78	.035	.020	.035	.000	1360.40	936.00
.000523	185.	185.	185.	2	0	0	.00	144.00	1080.00

FLOW DISTRIBUTION FOR SECNO= 92.66 CWSEL= 1369.63

STA=	936.	958.	968.	974.	1026.	1036.	1045.	1080.
PER Q=	3.9	4.8	4.2	74.3	6.0	3.3	3.4	
AREA=	75.8	66.3	50.1	472.0	76.6	51.1	88.5	
VEL=	2.4	3.4	3.9	7.4	3.7	3.1	1.8	

*SECNO 92.770

3280 CROSS SECTION 92.77 EXTENDED 1.61 FEET

92.77	9.11	1369.61	.00	.00	1370.45	.84	.10	.05	1360.80
4695.	541.	3707.	447.	161.	457.	134.	198.	57.	1360.80
.36	3.36	8.11	3.33	.035	.020	.035	.000	1360.50	940.00
.000641	185.	180.	170.	2	0	0	.00	114.00	1054.00

FLOW DISTRIBUTION FOR SECNO= 92.77 CWSEL= 1369.61

STA=	940.	962.	970.	975.	1026.	1031.	1040.	1054.
PER Q=	3.5	4.2	3.9	79.0	3.9	4.0	1.7	
AREA=	66.3	52.9	41.7	456.8	41.7	54.0	38.5	
VEL=	2.5	3.7	4.3	8.1	4.3	3.5	2.1	

*SECNO 92.880

3280 CROSS SECTION 92.88 EXTENDED .58 FEET

92.88	8.98	1369.58	.00	.00	1370.55	.97	.06	.04	1360.80
4695.	557.	3705.	433.	148.	426.	120.	199.	57.	1360.80
.36	3.75	8.70	3.60	.035	.020	.035	.000	1360.60	946.00
.000745	85.	85.	85.	2	0	0	.00	107.04	1053.04

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 92.88 CWSEL= 1369.58

STA=	946.	966.	974.	976.	1024.	1028.	1034.	1053.
PER Q=	4.4	5.7	1.8	78.9	3.3	3.3	2.6	
AREA=	70.5	60.6	17.4	426.1	33.5	39.5	47.3	
VEL=	2.9	4.4	4.9	8.7	4.6	3.9	2.6	

CCHV= .300 CEHV= .500

*SECNO 928.800

928.80	9.55	1369.45	.00	.00	1370.74	1.29	.03	.16	1372.20
4695.	0.	4695.	0.	0.	516.	0.	200.	57.	1372.70
.36	.00	9.10	.00	.035	.020	.035	.000	1359.90	973.00
.001109	50.	35.	30.	2	0	0	.00	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 928.80 CWSEL= 1369.45

STA=	973.	1027.
PER Q=	100.0	
AREA=	515.7	
VEL=	9.1	

*SECNO 928.900

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

D/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

928.90	9.13	1369.03	.00	.00	1371.17	2.14	.00	.43	1372.20
4695.	0.	4695.	0.	0.	400.	0.	200.	57.	1372.70
.36	.00	11.74	.00	.035	.015	.035	.000	1359.90	973.00
.004240	2.	2.	2.	2	0	0	-60.93	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 928.90 CWSEL= 1369.03

STA=	973.	1027.
PER Q=	100.0	
AREA=	400.0	
VEL=	11.7	

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 929.100

3370 NORMAL BRIDGE, NRD= 12 MIN ELTRD= 1372.20 MAX ELLC= 1372.70

U/S SIDE OF CHAMPIONS DRIVE (5 - 10' X 8' RCB)

929.10	9.43	1369.33	.00	.00	1371.47	2.14	.30	.00	1372.20
4695.	0.	4695.	0.	0.	400.	0.	200.	57.	1372.70
.37	.00	11.74	.00	.035	.015	.035	.000	1359.90	973.00
.004840	62.	62.	62.	2	0	0	-77.14	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 929.10 CWSEL= 1369.33

STA= 973. 1027.
 PER Q= 100.0
 AREA= 400.0
 VEL= 11.7

*SECNO 929.200

3301 HV CHANGED MORE THAN HVINS

929.20	10.94	1370.84	.00	.00	1371.82	.98	.01	.35	1372.20
4695.	0.	4695.	0.	0.	591.	0.	200.	57.	1372.70
.37	.00	7.95	.00	.035	.035	.035	.000	1359.90	973.00
.002272	2.	2.	2.	3	0	0	.00	54.00	1027.00

FLOW DISTRIBUTION FOR SECNO= 929.20 CWSEL= 1370.84

STA= 973. 1027.
 PER Q= 100.0
 AREA= 590.6
 VEL= 7.9

*SECNO 929.800

3260 CROSS SECTION 929.80 EXTENDED 1.23 FEET

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

720 CRITICAL DEPTH ASSUMED

929.80	16.83	1376.93	1376.93	.00	1377.52	.59	.12	.12	1375.60
4695.	1660.	1376.	1660.	378.	151.	378.	201.	57.	1375.60
.37	4.39	9.08	4.39	.035	.035	.035	.000	1360.10	700.00
.007753	32.	32.	32.	20	27	0	.00	600.00	1300.00

06-30-92 12:55:37

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 929.80 CWSEL= 1376.93

STA=	700.	996.	1005.	1300.
PER Q=	35.4	29.3	35.4	
AREA=	377.9	151.5	377.9	
VEL=	4.4	9.1	4.4	

*SECNO 929.900
3280 CROSS SECTION 929.90 EXTENDED 1.24 FEET

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

D/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)									
929.90	16.84	1376.94	.00	.00	1377.55	.61	.02	.01	1375.60
4695.	2046.	603.	2046.	382.	57.	382.	201.	57.	1375.60
.37	5.35	10.56	5.35	.035	.020	.035	.000	1360.10	700.00
.011321	2.	2.	2.	0	0	0	-94.50	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 929.90 CWSEL= 1376.94

STA=	700.	996.	1005.	1300.
PER Q=	43.6	12.8	43.6	
AREA=	382.5	57.1	382.5	
VEL=	5.3	10.6	5.3	

*SECNO 930.100
3280 CROSS SECTION 930.10 EXTENDED 1.93 FEET

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 1375.60 MAX ELLC= 1375.60

U/S SIDE OF MO PAC RR (9' X 5' STRUCTURE)									
930.10	17.13	1377.63	.00	.00	1377.87	.24	.21	.11	1375.60
4695.	2161.	372.	2161.	585.	63.	585.	202.	58.	1375.60
.37	3.69	5.88	3.69	.035	.020	.035	.000	1360.50	700.00
.003064	40.	40.	40.	3	0	0	-90.90	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.10 CWSEL= 1377.63

STA=	700.	996.	1005.	1300.
PER Q=	46.0	7.9	46.0	
AREA=	585.5	63.3	585.5	
VEL=	3.7	5.9	3.7	

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XML	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 930.200
 3280 CROSS SECTION 930.20 EXTENDED 1.98 FEET

930.20	17.18	1377.68	.00	.00	1377.98	.20	.01	.01	1375.60
4695.	1954.	788.	1954.	600.	155.	600.	202.	58.	1375.60
.37	3.25	5.09	3.25	.035	.035	.035	.000	1360.50	700.00
002311	2.	2.	2.	2	0	0	.00	600.00	1300.00

FLOW DISTRIBUTION FOR SECNO= 930.20 CWSEL= 1377.68

STA=	700.	996.	1005.	1300.
PER Q=	41.6	16.8	41.6	
AREA=	599.8	154.6	599.8	
VEL=	3.3	5.1	3.3	

*SECNO 930.500
 3280 CROSS SECTION 930.50 EXTENDED .48 FEET

930.50	17.98	1377.88	.00	.00	1377.94	.06	.01	.04	1367.40
4695.	560.	3574.	560.	846.	1618.	846.	205.	58.	1367.40
.38	.66	2.21	.66	.055	.030	.055	.000	1359.90	800.00
000050	50.	50.	50.	2	0	0	.00	400.00	1200.00

FLOW DISTRIBUTION FOR SECNO= 930.50 CWSEL= 1377.88

STA=	800.	900.	950.	1050.	1100.	1200.
PER Q=	4.0	7.9	75.1	7.9	4.0	
AREA=	397.6	448.8	1617.6	448.8	397.6	
VEL=	.5	.8	2.2	.8	.5	

THIS RUN EXECUTED 06-30-92

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

EAST FORK CHISHOLM CREEK

SUMMARY PRINTOUT

SECNO	XLCH	Q	CWSEL	EG	ELMIN	QLOB	QCH	QROB
12.430	.00	1800.00	1350.25	1350.27	1352.30	.00	1620.31	179.69
12.430	.00	2655.00	1361.75	1361.77	1352.30	.00	2089.60	565.40
12.430	.00	3235.00	1362.25	1362.27	1352.30	.00	2367.31	867.69
12.430	.00	4695.00	1363.10	1363.13	1352.30	.00	3013.56	1681.44
12.610	950.00	1800.00	1350.49	1350.53	1353.00	.00	1800.00	.00
12.610	950.00	2655.00	1361.95	1362.01	1353.00	.34	2654.66	.00
12.610	950.00	3235.00	1362.46	1362.53	1353.00	21.56	3211.80	1.54
12.610	950.00	4695.00	1363.35	1363.44	1353.00	215.44	4450.01	29.55
12.970	1900.00	1800.00	1361.62	1361.77	1352.80	1166.08	633.91	.00
12.970	1900.00	2655.00	1362.93	1363.06	1352.80	1903.95	751.05	.00
12.970	1900.00	3235.00	1363.49	1363.63	1352.80	2382.36	852.41	.23
12.970	1900.00	4695.00	1364.53	1364.71	1352.80	3571.74	1099.17	24.09
92.110	1675.00	1800.00	1364.41	1364.84	1358.00	461.80	621.18	717.02
92.110	1675.00	2655.00	1365.26	1365.84	1358.00	734.97	842.25	1077.77
92.110	1675.00	3235.00	1365.78	1366.44	1358.00	925.08	976.36	1333.56
92.110	1675.00	4695.00	1366.87	1367.67	1358.00	1384.28	1274.35	2036.37
92.220	290.00	1800.00	1365.12	1365.97	1358.50	584.83	601.69	613.48
92.220	290.00	2655.00	1366.10	1367.02	1358.50	961.76	740.27	944.97
92.220	290.00	3235.00	1366.66	1367.61	1358.50	1208.01	834.34	1192.65
92.220	290.00	4695.00	1367.80	1368.83	1358.50	1790.94	1021.45	1882.61
92.330	160.00	1800.00	1365.88	1366.62	1360.00	312.76	1235.15	252.09
92.330	160.00	2655.00	1366.70	1367.72	1360.00	545.93	1700.45	408.62
92.330	160.00	3235.00	1367.17	1368.36	1360.00	718.96	1992.48	523.56
92.330	160.00	4695.00	1368.09	1369.67	1360.00	1179.72	2676.52	838.76
92.440	120.00	1800.00	1366.61	1366.80	1360.20	180.12	1424.82	195.06
92.440	120.00	2655.00	1367.67	1367.94	1360.20	308.24	2001.43	345.33
92.440	120.00	3235.00	1368.28	1368.60	1360.20	403.03	2367.48	464.49
92.440	120.00	4695.00	1369.56	1369.96	1360.20	658.60	3200.60	835.80

SECNO	XLCH	Q	CWSEL	EG	ELMIN	QLOB	QCH	QROB
92.550	170.00	1800.00	1366.59	1366.92	1360.30	187.74	1451.19	151.07
92.550	170.00	2655.00	1367.63	1368.09	1360.30	315.31	2069.35	270.34
92.550	170.00	3235.00	1368.22	1368.77	1360.30	408.28	2450.47	366.25
92.550	170.00	4695.00	1369.43	1370.18	1360.30	657.48	3400.15	637.37
92.660	185.00	1800.00	1366.71	1366.99	1360.40	170.95	1490.75	149.30
92.660	185.00	2655.00	1367.78	1368.18	1360.40	289.36	2109.76	255.88
92.660	185.00	3235.00	1368.38	1368.86	1360.40	375.18	2514.89	344.94
92.660	185.00	4695.00	1369.63	1370.29	1360.40	602.73	3490.62	601.65
92.770	180.00	1800.00	1366.75	1367.07	1360.50	148.56	1526.30	125.14
92.770	180.00	2655.00	1367.80	1368.28	1360.50	252.47	2193.14	209.39
92.770	180.00	3235.00	1368.40	1368.98	1360.50	329.72	2631.73	273.55
92.770	180.00	4695.00	1369.61	1370.45	1360.50	541.31	3706.82	446.87
92.880	85.00	1800.00	1366.75	1367.12	1360.60	163.18	1514.60	122.22
92.880	85.00	2655.00	1367.80	1368.34	1360.60	269.52	2180.42	205.07
92.880	85.00	3235.00	1368.39	1369.05	1360.60	347.47	2621.28	266.24
92.880	85.00	4695.00	1369.58	1370.55	1360.60	557.02	3705.02	432.96
928.800	35.00	1800.00	1366.77	1367.14	1359.90	.00	1800.00	.00
928.800	35.00	2655.00	1367.79	1368.40	1359.90	.00	2655.00	.00
928.800	35.00	3235.00	1368.36	1369.13	1359.90	.00	3235.00	.00
928.800	35.00	4695.00	1369.45	1370.74	1359.90	.00	4695.00	.00
928.900	2.00	1800.00	1366.74	1367.17	1359.90	.00	1800.00	.00
928.900	2.00	2655.00	1367.74	1368.45	1359.90	.00	2655.00	.00
928.900	2.00	3235.00	1368.24	1369.26	1359.90	.00	3235.00	.00
928.900	2.00	4695.00	1369.03	1371.17	1359.90	.00	4695.00	.00
929.100	62.00	1800.00	1366.79	1367.21	1359.90	.00	1800.00	.00
929.100	62.00	2655.00	1367.82	1368.52	1359.90	.00	2655.00	.00
929.100	62.00	3235.00	1368.38	1369.40	1359.90	.00	3235.00	.00
929.100	62.00	4695.00	1369.33	1371.47	1359.90	.00	4695.00	.00
929.200	2.00	1800.00	1366.88	1367.24	1359.90	.00	1800.00	.00
929.200	2.00	2655.00	1367.99	1368.56	1359.90	.00	2655.00	.00
929.200	2.00	3235.00	1368.79	1369.50	1359.90	.00	3235.00	.00
929.200	2.00	4695.00	1370.84	1371.82	1359.90	.00	4695.00	.00
929.800	32.00	1800.00	1370.81	1376.22	1360.10	.00	1800.00	.00
929.800	32.00	2655.00	1373.98	1380.99	1360.10	.00	2655.00	.00
929.800	32.00	3235.00	1376.58	1377.18	1360.10	964.53	1305.94	964.53
929.800	32.00	4695.00	1376.93	1377.52	1360.10	1659.69	1375.61	1659.69
929.900	2.00	1800.00	1376.49	1376.76	1360.10	710.43	379.14	710.43
929.900	2.00	2655.00	1376.57	1377.03	1360.10	1075.02	504.97	1075.02
929.900	2.00	3235.00	1376.59	1377.23	1360.10	1318.08	598.84	1318.08
929.900	2.00	4695.00	1376.94	1377.55	1360.10	2046.10	602.79	2046.10

SECNO	XLCH	Q	CWSEL	EG	ELMIN	QLOB	QCH	QROB
930.100	40.00	1800.00	1376.83	1376.94	1360.50	771.40	257.20	771.40
930.100	40.00	2655.00	1377.15	1377.29	1360.50	1184.41	286.19	1184.41
930.100	40.00	3235.00	1377.41	1377.55	1360.50	1471.37	292.26	1471.37
930.100	40.00	4695.00	1377.63	1377.87	1360.50	2161.38	372.24	2161.38
930.200	2.00	1800.00	1376.84	1376.94	1360.50	619.12	561.77	619.12
930.200	2.00	2655.00	1377.17	1377.30	1360.50	1011.84	631.33	1011.84
930.200	2.00	3235.00	1377.43	1377.56	1360.50	1297.72	639.55	1297.72
930.200	2.00	4695.00	1377.68	1377.88	1360.50	1953.61	787.77	1953.61
930.500	50.00	1800.00	1376.96	1376.97	1359.90	191.86	1416.27	191.86
930.500	50.00	2655.00	1377.31	1377.33	1359.90	294.95	2065.10	294.95
930.500	50.00	3235.00	1377.56	1377.59	1359.90	371.14	2492.73	371.14
930.500	50.00	4695.00	1377.88	1377.94	1359.90	560.35	3574.30	560.35

EAST FORK CHISHOLM CREEK

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10KKS	VCH	AREA	.01K
12.430	.00	.00	.00	1352.30	1800.00	1360.25	.00	1360.27	1.94	1.21	1724.93	1292.92
12.430	.00	.00	.00	1352.30	2655.00	1361.75	.00	1361.77	1.67	1.28	2665.56	2054.22
12.430	.00	.00	.00	1352.30	3235.00	1362.25	.00	1362.27	1.77	1.37	3223.03	2433.38
12.430	.00	.00	.00	1352.30	4695.00	1363.10	.00	1363.13	2.11	1.58	4211.53	3230.79
12.610	950.00	.00	.00	1353.00	1800.00	1360.49	.00	1360.53	3.88	1.64	1099.10	913.43
12.610	950.00	.00	.00	1353.00	2655.00	1361.95	.00	1362.01	3.63	1.83	1457.24	1394.38
12.610	950.00	.00	.00	1353.00	3235.00	1362.46	.00	1362.53	4.01	2.03	1650.93	1614.56
12.610	950.00	.00	.00	1353.00	4695.00	1363.35	.00	1363.44	4.98	2.47	2126.64	2104.38
12.970	1900.00	.00	.00	1352.80	1800.00	1361.62	.00	1361.77	15.76	3.79	627.61	453.39
12.970	1900.00	.00	.00	1352.80	2655.00	1362.93	.00	1363.06	11.63	3.60	943.90	778.68
12.970	1900.00	.00	.00	1352.80	3235.00	1363.49	.00	1363.63	11.32	3.75	1101.45	961.48
12.970	1900.00	.00	.00	1352.80	4695.00	1364.53	.00	1364.71	11.77	4.20	1468.99	1368.73
92.110	1675.00	.00	.00	1358.00	1800.00	1364.41	.00	1364.84	22.71	6.58	363.35	377.72
92.110	1675.00	.00	.00	1358.00	2655.00	1365.26	.00	1365.84	26.59	7.79	459.39	514.84
92.110	1675.00	.00	.00	1358.00	3235.00	1365.78	.00	1366.44	27.93	8.38	527.38	612.10
92.110	1675.00	.00	.00	1358.00	4695.00	1366.87	.00	1367.67	29.90	9.52	697.60	858.65
92.220	290.00	.00	.00	1358.50	1800.00	1365.12	.00	1365.97	68.98	9.16	256.33	216.73
92.220	290.00	.00	.00	1358.50	2655.00	1366.10	.00	1367.02	61.80	9.67	358.92	337.72
92.220	290.00	.00	.00	1358.50	3235.00	1366.66	.00	1367.61	58.28	9.92	428.26	423.74
92.220	290.00	.00	.00	1358.50	4695.00	1367.80	.00	1368.83	52.65	10.44	597.72	647.06
92.330	160.00	.00	.00	1360.00	1800.00	1365.88	.00	1366.62	25.92	7.92	297.93	353.54
92.330	160.00	.00	.00	1360.00	2655.00	1366.70	.00	1367.72	30.83	9.48	380.48	478.15
92.330	160.00	.00	.00	1360.00	3235.00	1367.17	.00	1368.36	33.43	10.35	433.10	559.53
92.330	160.00	.00	.00	1360.00	4695.00	1368.09	.00	1369.67	39.74	12.27	550.02	744.72
92.440	120.00	.00	.00	1360.20	1800.00	1366.61	.00	1366.80	5.37	3.86	556.98	776.43
92.440	120.00	.00	.00	1360.20	2655.00	1367.67	.00	1367.94	6.22	4.62	709.95	1064.28
92.440	120.00	.00	.00	1360.20	3235.00	1368.28	.00	1368.60	6.64	5.04	811.61	1255.55
92.440	120.00	.00	.00	1360.20	4695.00	1369.56	.00	1369.96	7.35	5.86	1067.43	1731.71
92.550	170.00	.00	.00	1360.30	1800.00	1366.59	.00	1366.92	4.06	4.99	461.42	893.71
92.550	170.00	.00	.00	1360.30	2655.00	1367.63	.00	1368.09	4.82	6.04	587.57	1209.69
92.550	170.00	.00	.00	1360.30	3235.00	1368.22	.00	1368.77	5.22	6.64	668.51	1415.56
92.550	170.00	.00	.00	1360.30	4695.00	1369.43	.00	1370.18	6.14	7.93	840.85	1895.01
92.660	185.00	.00	.00	1360.40	1800.00	1366.71	.00	1366.99	3.42	4.62	499.83	972.65
92.660	185.00	.00	.00	1360.40	2655.00	1367.78	.00	1368.18	4.09	5.61	616.67	1313.20
92.660	185.00	.00	.00	1360.40	3235.00	1368.38	.00	1368.86	4.44	6.17	701.63	1535.24
92.660	185.00	.00	.00	1360.40	4695.00	1369.63	.00	1370.29	5.23	7.40	890.34	2052.74

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10KKS	VCH	AREA	.01K
92.770	180.00	.00	.00	1360.50	1800.00	1366.75	.00	1367.07	3.92	4.91	443.90	909.17
92.770	180.00	.00	.00	1360.50	2655.00	1367.80	.00	1368.28	4.75	6.01	549.98	1218.10
92.770	180.00	.00	.00	1360.50	3235.00	1368.40	.00	1368.98	5.24	6.66	615.03	1413.15
92.770	180.00	.00	.00	1360.50	4695.00	1369.61	.00	1370.45	6.41	8.11	751.91	1854.03
92.880	85.00	.00	.00	1360.60	1800.00	1366.75	.00	1367.12	4.46	5.21	418.82	852.31
92.880	85.00	.00	.00	1360.60	2655.00	1367.80	.00	1368.34	5.43	6.40	515.28	1139.70
92.880	85.00	.00	.00	1360.60	3235.00	1368.39	.00	1369.05	6.02	7.10	572.62	1318.83
92.880	85.00	.00	.00	1360.60	4695.00	1369.58	.00	1370.55	7.45	8.70	694.86	1719.93
928.800	35.00	.00	.00	1359.90	1800.00	1366.77	.00	1367.14	4.42	4.85	370.97	856.42
928.800	35.00	.00	.00	1359.90	2655.00	1367.79	.00	1368.40	6.30	6.23	426.22	1058.18
928.800	35.00	.00	.00	1359.90	3235.00	1368.36	.00	1369.13	7.59	7.09	456.57	1174.14
928.800	35.00	.00	.00	1359.90	4695.00	1369.45	.00	1370.74	11.09	9.10	515.75	1409.71
928.900	2.00	1372.20	1372.70	1359.90	1800.00	1366.74	.00	1367.17	6.86	5.26	342.00	687.21
928.900	2.00	1372.20	1372.70	1359.90	2655.00	1367.74	.00	1368.45	10.55	6.77	391.97	817.22
928.900	2.00	1372.20	1372.70	1359.90	3235.00	1368.24	.00	1369.26	22.98	8.09	400.00	674.82
928.900	2.00	1372.20	1372.70	1359.90	4695.00	1369.03	.00	1371.17	48.40	11.74	400.00	674.82
929.100	62.00	1372.20	1372.70	1359.90	1800.00	1366.79	.00	1367.21	6.75	5.23	344.09	692.58
929.100	62.00	1372.20	1372.70	1359.90	2655.00	1367.82	.00	1368.52	10.27	6.70	396.18	828.28
929.100	62.00	1372.20	1372.70	1359.90	3235.00	1368.38	.00	1369.40	22.98	8.09	400.00	674.82
929.100	62.00	1372.20	1372.70	1359.90	4695.00	1369.33	.00	1371.47	48.40	11.74	400.00	674.82
929.200	2.00	.00	.00	1359.90	1800.00	1366.88	.00	1367.24	12.86	4.77	377.14	501.90
929.200	2.00	.00	.00	1359.90	2655.00	1367.99	.00	1368.56	17.91	6.08	436.72	627.38
929.200	2.00	.00	.00	1359.90	3235.00	1368.79	.00	1369.50	19.96	6.73	480.34	724.18
929.200	2.00	.00	.00	1359.90	4695.00	1370.84	.00	1371.82	22.72	7.95	590.59	984.90
929.800	32.00	.00	.00	1360.10	1800.00	1370.81	1370.81	1376.22	415.43	18.67	96.41	88.31
929.800	32.00	.00	.00	1360.10	2655.00	1373.98	1373.98	1380.99	490.43	21.25	124.92	119.89
929.800	32.00	.00	.00	1360.10	3235.00	1376.58	1376.58	1377.18	74.89	8.80	699.48	373.82
929.800	32.00	.00	.00	1360.10	4695.00	1376.93	1376.93	1377.52	77.53	9.08	907.20	533.20
929.900	2.00	1375.60	1375.60	1360.10	1800.00	1376.49	1376.49	1376.76	57.34	7.15	549.98	237.71
929.900	2.00	1375.60	1375.60	1360.10	2655.00	1376.57	1376.57	1377.03	97.29	9.40	597.51	269.17
929.900	2.00	1375.60	1375.60	1360.10	3235.00	1376.59	1376.59	1377.23	135.15	11.10	610.77	278.27
929.900	2.00	1375.60	1375.60	1360.10	4695.00	1376.94	.00	1377.55	113.21	10.56	822.00	441.27
930.100	40.00	1375.60	1375.60	1360.50	1800.00	1376.83	.00	1376.94	21.90	4.59	753.30	384.63
930.100	40.00	1375.60	1375.60	1360.50	2655.00	1377.15	.00	1377.29	22.86	4.85	949.66	555.29
930.100	40.00	1375.60	1375.60	1360.50	3235.00	1377.41	.00	1377.55	21.00	4.77	1102.30	705.94
930.100	40.00	1375.60	1375.60	1360.50	4695.00	1377.63	.00	1377.87	30.64	5.88	1234.28	848.17
930.200	2.00	.00	.00	1360.50	1800.00	1376.84	.00	1376.94	13.90	3.82	847.35	482.80
930.200	2.00	.00	.00	1360.50	2655.00	1377.17	.00	1377.30	16.43	4.21	1044.81	655.02
930.200	2.00	.00	.00	1360.50	3235.00	1377.43	.00	1377.56	16.02	4.20	1199.50	808.34
930.200	2.00	.00	.00	1360.50	4695.00	1377.68	.00	1377.88	23.11	5.09	1354.18	976.74

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10KKS	VCH	AREA	.01K
930.500	50.00	.00	.00	1359.90	1800.00	1376.96	.00	1376.97	.10	.93	2948.16	5824.66
930.500	50.00	.00	.00	1359.90	2655.00	1377.31	.00	1377.33	.19	1.32	3083.89	6116.27
930.500	50.00	.00	.00	1359.90	3235.00	1377.56	.00	1377.59	.26	1.57	3185.09	6341.81
930.500	50.00	.00	.00	1359.90	4695.00	1377.88	.00	1377.94	.50	2.21	3310.43	6631.58

FAST FORK CHISHOLM CREEK

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
12.430	1800.00	1360.25	.00	.00	.00	468.37	.00
12.430	2655.00	1361.75	1.50	.00	.00	1097.17	.00
12.430	3235.00	1362.25	.50	.00	.00	1132.74	.00
12.430	4695.00	1363.10	.85	.00	.00	1193.20	.00
12.610	1800.00	1360.49	.00	.24	.00	234.06	950.00
12.610	2655.00	1361.95	1.47	.20	.00	288.22	950.00
12.610	3235.00	1362.45	.51	.21	.00	480.89	950.00
12.610	4695.00	1363.35	.89	.25	.00	592.21	950.00
12.970	1800.00	1361.62	.00	1.13	.00	217.17	1900.00
12.970	2655.00	1362.93	1.30	.97	.00	267.92	1900.00
12.970	3235.00	1363.49	.56	1.03	.00	290.64	1900.00
12.970	4695.00	1364.53	1.04	1.18	.00	510.96	1900.00
92.110	1800.00	1364.41	.00	2.78	.00	103.68	1675.00
92.110	2655.00	1365.26	.85	2.33	.00	123.05	1675.00
92.110	3235.00	1365.78	.52	2.29	.00	139.12	1675.00
92.110	4695.00	1366.87	1.09	2.34	.00	173.74	1675.00
92.220	1800.00	1365.12	.00	.71	.00	95.51	290.00
92.220	2655.00	1366.10	.98	.84	.00	115.99	290.00
92.220	3235.00	1366.66	.56	.88	.00	132.72	290.00
92.220	4695.00	1367.80	1.14	.93	.00	159.94	290.00
92.330	1800.00	1365.88	.00	.76	.00	91.05	160.00
92.330	2655.00	1366.70	.83	.60	.00	107.11	160.00
92.330	3235.00	1367.17	.47	.52	.00	117.04	160.00
92.330	4695.00	1368.09	.92	.29	.00	137.48	160.00
92.440	1800.00	1366.61	.00	.73	.00	132.52	120.00
92.440	2655.00	1367.67	1.07	.97	.00	154.83	120.00
92.440	3235.00	1368.28	.61	1.11	.00	187.07	120.00
92.440	4695.00	1369.56	1.28	1.47	.00	205.79	120.00
92.550	1800.00	1366.59	.00	-.01	.00	112.13	170.00
92.550	2655.00	1367.63	1.04	-.04	.00	131.68	170.00
92.550	3235.00	1368.22	.59	-.06	.00	139.90	170.00
92.550	4695.00	1369.43	1.21	-.13	.00	144.74	170.00
92.660	1800.00	1366.71	.00	.12	.00	108.69	185.00
92.660	2655.00	1367.78	1.06	.14	.00	134.28	185.00
92.660	3235.00	1368.38	.61	.16	.00	142.15	185.00
92.660	4695.00	1369.63	1.24	.20	.00	144.00	185.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
92.770	1800.00	1366.75	.00	.03	.00	94.97	180.00
92.770	2655.00	1367.80	1.06	.03	.00	106.63	180.00
92.770	3235.00	1368.40	.60	.02	.00	110.99	180.00
92.770	4695.00	1369.61	1.21	-.02	.00	114.00	180.00
92.880	1800.00	1366.75	.00	.01	.00	88.52	85.00
92.880	2655.00	1367.80	1.05	.00	.00	95.62	85.00
92.880	3235.00	1368.39	.59	-.01	.00	99.34	85.00
92.880	4695.00	1369.58	1.19	-.03	.00	107.04	85.00
928.800	1800.00	1366.77	.00	.02	.00	54.00	35.00
928.800	2655.00	1367.79	1.02	-.01	.00	54.00	35.00
928.800	3235.00	1368.36	.56	-.04	.00	54.00	35.00
928.800	4695.00	1369.45	1.10	-.13	.00	54.00	35.00
928.900	1800.00	1366.74	.00	-.03	.00	50.00	2.00
928.900	2655.00	1367.74	1.00	-.05	.00	50.00	2.00
928.900	3235.00	1368.24	.50	-.12	.00	54.00	2.00
928.900	4695.00	1369.03	.79	-.42	.00	54.00	2.00
929.100	1800.00	1366.79	.00	.05	.00	50.00	62.00
929.100	2655.00	1367.82	1.03	.08	.00	50.00	62.00
929.100	3235.00	1368.38	.56	.14	.00	54.00	62.00
929.100	4695.00	1369.33	.95	.30	.00	54.00	62.00
929.200	1800.00	1366.88	.00	.09	.00	54.00	2.00
929.200	2655.00	1367.99	1.10	.16	.00	54.00	2.00
929.200	3235.00	1368.79	.80	.41	.00	54.00	2.00
929.200	4695.00	1370.84	2.05	1.51	.00	54.00	2.00
929.800	1800.00	1370.81	.00	3.93	.00	9.00	32.00
929.800	2655.00	1373.98	3.17	5.99	.00	9.00	32.00
929.800	3235.00	1376.58	2.60	7.79	.00	600.00	32.00
929.800	4695.00	1376.93	.35	6.09	.00	600.00	32.00
929.900	1800.00	1376.49	.00	5.68	.00	600.00	2.00
929.900	2655.00	1376.57	.08	2.59	.00	600.00	2.00
929.900	3235.00	1376.59	.02	.01	.00	600.00	2.00
929.900	4695.00	1376.94	.34	.01	.00	600.00	2.00
930.100	1800.00	1376.83	.00	.34	.00	600.00	40.00
930.100	2655.00	1377.15	.33	.58	.00	600.00	40.00
930.100	3235.00	1377.41	.25	.81	.00	600.00	40.00
930.100	4695.00	1377.63	.23	.70	.00	600.00	40.00
930.200	1800.00	1376.84	.00	.01	.00	600.00	2.00
930.200	2655.00	1377.17	.33	.02	.00	600.00	2.00
930.200	3235.00	1377.43	.26	.02	.00	600.00	2.00
930.200	4695.00	1377.68	.25	.05	.00	600.00	2.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
930.500	1800.00	1376.96	.00	.12	.00	387.53	50.00
930.500	2655.00	1377.31	.35	.14	.00	397.41	50.00
930.500	3235.00	1377.56	.25	.13	.00	400.00	50.00
930.500	4695.00	1377.88	.31	.20	.00	400.00	50.00

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= 929.800 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 929.800 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 929.800 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 929.800 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 929.800 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 929.800 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 929.800 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 929.800 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 929.800 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 929.800 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 929.800 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 929.800 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 929.900 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 929.900 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 929.900 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 929.900 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 929.900 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 929.900 PROFILE= 3 MINIMUM SPECIFIC ENERGY