

		433,800	966,000	333,500	991,000	332,100	1000,000			
X1	0,510	13,000	1396,000	1437,000	1465,000	1465,000	1465,000	0,0	0,0	0,0
GR	334,000	1000,000	332,000	1100,000	330,000	1385,000	328,000	1396,000	326,000	1413,000
GR	324,300	1420,000	324,100	1421,000	324,000	1424,000	324,600	1437,000	328,000	1437,000
GR	330,000	1447,000	340,000	1462,000	350,000	1472,000	0,0	0,0	0,0	0,0
QT	2,000	2100,000	2100,000	0,0	0,0	0,0	0,0	0,0	0,0	0,0
X1	105495,000	15,000	1038,000	1058,000	550,000	550,000	550,000	0,0	-0,800	0,0
GR	346,100	200,000	342,300	300,000	338,600	400,000	334,900	500,000	332,600	700,000
GR	332,600	800,000	332,600	900,000	331,600	1000,000	331,100	1038,000	327,300	1042,000
GR	326,900	1048,000	327,300	1055,000	330,600	1058,000	330,900	1085,000	346,100	1100,000
X1	105545,000	15,000	1088,000	1112,000	50,000	50,000	50,000	0,0	0,0	0,0
X3	10,000	0,0	0,0	0,0	0,0	0,0	0,0	344,800	344,800	0,0
GR	355,000	0,0	347,400	200,000	342,500	300,000	338,900	400,000	335,000	500,000
GR	333,000	700,000	332,800	800,000	332,800	900,000	331,900	1060,000	330,700	1088,000
GR	326,200	1088,100	326,200	1112,000	330,700	1112,100	348,500	1150,000	368,200	1300,000
SB	0,900	1,500	3,000	0,0	24,000	2,000	216,000	0,0	0,0	0,0
X1	105745,000	0,0	0,0	0,0	200,000	200,000	200,000	0,0	0,0	0,0
X2	0,0	0,0	1,000	0,0	0,0	0,0	0,0	0,0	0,0	0,0
X3	10,000	0,0	0,0	0,0	0,0	0,0	0,0	353,800	353,800	0,0
BT	9,000	0,0	355,000	0,0	900,000	353,800	0,0	1000,000	355,200	0,0
BT	1088,000	356,900	330,700	1088,100	356,900	335,800	1112,000	356,900	335,800	1112,100
BT	356,100	330,700	1200,000	368,200	0,0	1300,000	368,200	0,0	0,0	0,0
ET	0,0	0,0	14,400	0,0	0,0	0,0	0,0	0,0	0,0	0,0
X1	1,000	24,000	1986,000	2011,000	50,000	50,000	50,000	0,0	0,0	0,0
GR	360,000	564,000	357,000	610,000	353,800	650,000	340,900	900,000	349,400	1100,000
GR	346,200	1250,000	343,400	1300,000	340,700	1400,000	338,500	1450,000	336,500	1500,000
GR	334,800	1550,000	333,400	1600,000	332,500	1650,000	332,100	1954,000	333,800	1957,000
GR	333,800	1965,000	332,200	1986,000	327,200	1994,000	327,100	2000,000	327,100	2006,000
GR	330,400	2011,000	330,600	2025,000	345,400	2050,000	360,000	2078,000	0,0	0,0
X1	2,000	20,000	989,000	1019,000	545,000	545,000	545,000	0,0	0,0	0,0
GR	354,700	100,000	351,900	250,000	352,300	300,000	345,100	700,000	340,900	800,000
GR	338,600	850,000	335,700	900,000	334,600	950,000	332,800	989,000	328,300	993,000
GR	328,000	1000,000	328,000	1007,000	332,900	1019,000	332,900	1100,000	330,200	1182,000
GR	333,300	1189,000	333,500	1350,000	335,000	1385,000	347,300	1400,000	356,600	1418,000
ET	0,0	0,0	10,400	0,0	0,0	0,0	0,0	0,0	0,0	0,0
X1	3,000	15,000	988,000	1013,000	390,000	390,000	390,000	0,0	0,0	0,0
GR	359,900	438,000	356,600	500,000	349,600	700,000	342,700	800,000	338,800	900,000
GR	335,900	950,000	334,400	988,000	328,900	993,000	328,600	1000,000	329,000	1010,000
GR	334,200	1013,000	334,800	1250,000	338,500	1390,000	341,700	1400,000	360,000	1436,000
QT	2,000	2000,000	2000,000	0,0	0,0	0,0	0,0	0,0	0,0	0,0
ET	0,0	0,0	6,400	0,0	0,0	0,0	0,0	0,0	0,0	0,0
X1	4,000	16,000	988,000	1012,000	640,000	640,000	640,000	0,0	0,0	0,0
GR	360,000	537,000	358,600	550,000	351,700	600,000	345,900	650,000	341,500	700,000
GR	339,900	750,000	336,300	950,000	335,200	988,000	329,700	993,000	329,600	1000,000
GR	329,800	1008,000	335,600	1012,000	335,800	1050,000	338,300	1100,000	350,400	1150,000
GR	360,000	1171,000	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
ET	0,0	0,0	8,400	0,0	0,0	0,0	0,0	0,0	0,0	0,0
X1	5,000	20,000	960,000	1009,000	860,000	860,000	860,000	0,0	0,0	0,0
GR	360,000	106,000	352,900	150,000	345,600	187,000	345,400	200,000	344,100	350,000
GR	344,500	400,000	340,300	650,000	337,800	700,000	337,000	850,000	338,600	900,000

GR	337.400	950.000	337.400	950.000	333.800	966.000	333.500	991.000	332.100	1000.000
GR	332.700	1005.000	338.600	1009.000	337.600	1050.000	347.600	1100.000	360.000	1142.000
QT	2.000	1950.000	1950.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	6.000	24.000	986.000	1012.000	830.000	830.000	830.000	0.0	0.0	0.0
GR	360.000	378.000	356.100	400.000	352.200	446.000	351.400	449.000	351.300	452.000
GR	353.600	500.000	350.400	550.000	345.900	600.000	342.800	650.000	340.600	800.000
GR	341.500	850.000	338.200	901.000	337.800	907.000	338.000	926.000	340.400	932.000
GR	340.800	950.000	339.000	988.000	334.100	992.000	334.100	1000.000	334.600	1008.000
GR	339.300	1012.000	342.700	1025.000	354.400	1050.000	360.000	1069.000	0.0	0.0
QT	2.000	1280.000	1280.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	7.000	35.000	986.000	1012.000	550.000	550.000	550.000	0.0	-0.100	0.0
GR	360.000	51.000	353.700	100.000	351.700	140.000	357.400	152.000	357.000	200.000
GR	355.600	250.000	352.800	300.000	349.500	350.000	348.200	400.000	344.300	500.000
GR	342.800	531.000	344.100	550.000	345.700	600.000	346.500	650.000	346.700	676.000
GR	344.400	700.000	343.200	750.000	341.700	781.000	339.800	783.000	341.100	784.000
GR	341.800	850.000	340.300	860.000	342.100	869.000	341.800	986.000	337.400	994.000
GR	336.800	1000.000	336.900	1008.000	341.100	1012.000	341.100	1050.000	342.500	1100.000
GR	343.000	1150.000	345.200	1200.000	352.500	1250.000	353.300	1300.000	360.000	1354.000
X1	7.100	0.0	0.0	0.0	70.000	70.000	70.000	0.0	0.100	0.0
ET	0.0	0.0	10.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	7.200	41.000	985.000	1015.000	75.000	75.000	75.000	0.0	0.0	0.0
X3	19.000	0.0	0.0	0.0	0.0	0.0	0.0	347.800	347.800	0.0
GR	360.000	171.000	357.000	200.000	355.600	250.000	352.800	300.000	349.500	350.000
GR	348.200	400.000	344.300	500.000	342.800	531.000	344.100	550.000	345.700	600.000
GR	346.500	650.000	346.700	676.000	344.400	700.000	343.200	750.000	341.700	781.000
GR	339.800	783.000	341.100	784.000	341.800	850.000	340.300	860.000	342.100	869.000
GR	341.600	985.000	339.000	986.200	337.800	989.000	339.000	991.800	341.800	993.000
GR	342.100	996.000	339.300	997.200	338.100	1000.000	339.300	1002.800	342.100	1004.000
GR	341.800	1007.000	339.000	1008.200	337.800	1011.000	339.000	1013.800	341.800	1015.000
GR	341.100	1050.000	342.500	1100.000	343.000	1150.000	345.200	1200.000	352.500	1250.000
GR	360.000	1270.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	3.000	0.0	24.000	6.000	150.800	0.0	0.0	0.0
X1	7.400	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
X2	0.0	0.0	1.000	346.100	349.800	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	349.800	349.800	0.0
BT	25.000	171.000	350.000	0.0	500.000	350.000	0.0	784.000	349.800	0.0
BT	850.000	349.900	0.0	900.000	353.800	0.0	950.000	352.500	0.0	985.000
BT	351.300	341.900	986.200	351.300	344.700	989.000	351.300	345.900	991.800	351.300
BT	344.700	993.000	351.300	341.900	996.000	351.300	342.200	997.200	351.300	343.400
BT	1000.000	351.300	338.200	1002.800	351.300	343.400	1004.000	351.300	342.300	1007.000
BT	351.300	341.900	1008.200	351.300	344.700	1011.000	351.300	345.900	1013.800	351.300
BT	344.700	1015.000	351.300	341.900	1100.000	353.800	0.0	1150.000	355.300	0.0
BT	1200.000	357.100	0.0	1270.000	360.000	0.0	0.0	0.0	0.0	0.0
X1	8.000	30.000	982.000	1014.000	75.000	75.000	75.000	0.0	0.0	0.0
GR	360.000	181.000	358.300	200.000	355.300	250.000	351.600	350.000	349.800	382.000
GR	348.600	389.000	350.300	400.000	350.900	500.000	355.500	550.000	358.800	600.000
GR	356.900	650.000	348.800	750.000	346.100	800.000	344.300	950.000	343.200	982.000
GR	339.300	986.000	333.200	1000.000	338.200	1010.000	341.400	1014.000	343.200	1126.000
GR	340.200	1143.000	344.500	1156.000	346.900	1250.000	348.800	1300.000	349.900	1350.000
GR	354.800	1400.000	352.600	1417.000	356.100	1450.000	356.400	1500.000	360.000	1528.000
ET	0.0	0.0	4.400	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	9.100	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

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

SWIFT CREEK FROM TRIB. 7

SUMMARY PRINTOUT

	SECNO	ALCH	ELTRD	ELLC	O	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	.01K	DIFWSP	
A	* 1014+00	0.100	101400.00	0.0	0.0	3000.00	317.10	324.92	324.92	7.67	1434.63	2107.33	302.97	0.0
	1014+00	0.100	101400.00	0.0	0.0	3000.00	317.10	325.40	0.0	8.13	1605.08	1851.98	299.83	0.48
	0.800	750.00	0.0	0.0	2120.00	318.90	327.36	0.0	2.22	1000.00	1832.80	750.24	0.0	
	1021+50	0.800	750.00	0.0	0.0	2120.00	318.90	328.05	0.0	2.38	1271.80	1686.44	746.83	0.68
B	0.81	750.00	0.0	0.0	2120.00	320.60	328.27	0.0	3.44	1000.00	1820.24	446.40	0.0	
	1029+00	0.810	750.00	0.0	0.0	2120.00	320.60	328.98	0.0	3.74	1351.12	1651.00	421.72	0.71
C	0.900	580.00	0.0	0.0	2120.00	322.00	330.04	0.0	5.92	1347.51	1879.56	285.56	0.0	
	1024+20	0.900	580.00	0.0	0.0	2120.00	322.00	330.87	0.0	6.26	1764.57	1877.00	277.20	0.84
D	0.910	1465.00	0.0	0.0	2120.00	324.00	333.58	0.0	3.26	1020.77	1452.38	609.16	0.0	
	1049+45	0.910	1465.00	0.0	0.0	2120.00	324.00	334.60	0.0	3.21	1257.05	1437.00	610.86	1.01
E	105495.000	550.00	0.0	0.0	2100.00	326.10	334.33	0.0	3.09	493.86	1088.69	578.83	0.0	
	105495.000	550.00	0.0	0.0	2100.00	326.10	335.32	0.0	2.80	758.27	1058.00	601.58	0.99	
	* 105545.000	50.00	0.0	0.0	2100.00	326.20	332.38	332.38	14.17	1088.00	1112.00	106.27	0.0	
	105545.000	50.00	0.0	0.0	2100.00	326.20	334.23	0.0	10.90	1088.00	1112.00	136.07	1.84	
	* 105745.000	200.00	353.80	355.80	2100.00	326.20	334.80	0.0	10.19	1088.00	1112.00	174.86	0.0	
	105745.000	200.00	353.80	335.80	2100.00	326.20	335.60	0.0	9.32	1088.00	1112.00	199.59	0.80	
F	1057+95	1.000	50.00	0.0	0.0	2100.00	327.10	336.61	0.0	1.95	1497.38	2035.14	1032.01	0.0
		1.000	50.00	0.0	0.0	2100.00	327.10	337.13	0.0	2.33	1734.32	2011.00	775.43	0.52
G	2.000	545.00	0.0	0.0	2100.00	328.00	336.86	0.0	2.05	880.04	1387.27	911.78	0.0	
	1062+40	2.000	545.00	0.0	0.0	2100.00	328.00	337.54	0.0	2.47	989.00	1207.89	731.44	0.69
H	3.000	390.00	0.0	0.0	2100.00	328.60	337.18	0.0	4.22	927.98	1339.94	413.73	0.0	
	1067+30	3.000	390.00	0.0	0.0	2100.00	328.60	338.00	0.0	4.59	988.00	1152.85	377.53	0.83
I	4.000	640.00	0.0	0.0	2000.00	329.60	336.99	0.0	5.18	800.11	1102.88	339.85	0.0	
	1072+00	4.000	640.00	0.0	0.0	2000.00	329.60	339.88	0.0	5.11	926.91	1048.14	369.33	0.89
J	5.000	860.00	0.0	0.0	2000.00	332.10	340.64	0.0	2.67	629.84	1065.19	635.26	0.0	
	1082+30	5.000	860.00	0.0	0.0	2000.00	332.10	341.47	0.0	2.80	780.11	1009.00	628.82	0.83

US HIGHWAY 1

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	WSEL	CRUIS	VCH	SSTA	ENDST	.01K	DIFWSP	
K	1090+60	6.000	830.00	0.0	0.0	1950.00	334.10	342.06	0.0	5.94	700.23	1022.56	265.24	0.0
	6.000	830.00	0.0	0.0	1950.00	334.10	342.89	0.0	5.97	906.73	1012.00	261.97	0.83	
	1096+10	7.000	550.00	0.0	0.0	1280.00	336.70	343.85	0.0	2.73	507.12	1171.71	351.99	0.0
	7.000	550.00	0.0	0.0	1280.00	336.70	344.71	0.0	2.92	823.83	1040.92	360.58	0.86	
L	1096+80	7.100	70.00	0.0	0.0	1280.00	336.80	343.95	0.0	2.74	507.31	1171.50	350.01	0.0
	7.100	70.00	0.0	0.0	1280.00	336.80	344.80	0.0	2.93	824.25	1040.65	357.91	0.85	
*	1097+55	7.200	75.00	0.0	0.0	1280.00	337.80	343.47	343.47	11.22	985.00	1015.00	53.22	0.0
	7.200	75.00	0.0	0.0	1280.00	337.80	344.12	0.0	9.58	985.00	1015.00	56.09	0.65	
* NCSR 1435	1098+05	7.400	50.00	349.80	346.10	1280.00	337.90	345.89	0.0	6.97	985.00	1015.00	113.77	0.0
	7.400	50.00	349.80	346.10	1280.00	337.90	346.89	0.0	5.99	985.00	1015.00	144.36	1.00	
M	1098+80	8.000	75.00	0.0	0.0	1280.00	338.20	346.78	0.0	1.82	787.39	1245.34	641.82	0.0
	8.000	75.00	0.0	0.0	1280.00	338.20	347.55	0.0	2.06	960.95	1126.37	603.73	0.77	
	1099+30	8.100	50.00	0.0	0.0	1280.00	338.30	346.80	0.0	1.87	788.89	1242.17	620.62	0.0
	8.100	50.00	0.0	0.0	1280.00	338.30	347.58	0.0	1.79	923.84	1144.25	692.67	0.78	
N	* 111670.000	1740.00	0.0	0.0	1280.00	343.30	351.17	351.17	8.81	428.23	644.62	94.70	0.0	
	* 111670.000	1740.00	0.0	0.0	1280.00	343.30	351.14	351.14	10.66	529.20	596.22	78.00	-0.03	
	111720.000	50.00	0.0	0.0	1280.00	344.50	351.50	0.0	10.97	2088.50	2105.50	76.75	0.0	
	111720.000	50.00	0.0	0.0	1280.00	344.50	352.26	0.0	9.89	2088.50	2105.50	82.15	0.76	
* US HIGHWAY 64	111840.000	120.00	358.70	354.10	1280.00	344.50	352.26	0.0	9.88	2088.50	2105.50	89.68	0.0	
	111840.000	120.00	358.70	354.10	1280.00	344.50	353.26	0.0	8.74	2088.50	2105.50	107.57	1.00	
LIMIT OF STUDY AT 1121+40														
	113840.000	2000.00	0.0	0.0	1280.00	345.90	356.47	0.0	1.81	259.74	703.76	626.11	0.0	
	113840.000	2000.00	0.0	0.0	1280.00	345.90	357.26	0.0	2.05	415.48	609.60	586.08	0.79	

SUMMARY OF ERRORS

CAUTION SECNO= 0.100 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO=***** PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO=***** PROFILE= 1 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=***** PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO=***** PROFILE= 2 HYDRAULIC JUMP D.S.

CAUTION SECNO= 7.200 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 7.200 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 7.200 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 7.400 PROFILE= 1 HYDRAULIC JUMP D.S.

CAUTION SECNO= 7.400 PROFILE= 2 HYDRAULIC JUMP D.S.

CAUTION SECNO=***** PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO=***** PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO=***** PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=***** PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO=***** PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO=***** PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=***** PROFILE= 1 HYDRAULIC JUMP D.S.

FLOODWAY DATA: SWIFT CREEK FROM TRIB. 7
 PROFILE NO. 2

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	
A 0.100	247.	587.	5.1	325.4	324.4 324.4	1.0
B 0.800	415.	1604.	1.3	328.1	327.4	0.7 - DUPLICATED SECTION
C 0.810	300.	978.	2.2	329.0	328.3	0.7
D 0.900	92.	454.	4.7	330.8	330.0	0.8
E 105495.000	180.	962.	2.2	334.6	333.6	1.0
105545.000	300.	1251.	1.7	335.3	334.3	1.0
105745.000	24.	193.	10.9	334.2	332.4	1.8 } BRIDGE
F 1.000	24.	225.	9.3	335.6	334.6	0.8
G 2.000	277.	1418.	1.5	337.1	336.6	0.5
H 3.000	215.	1233.	1.7	337.6	336.9	0.7
I 4.000	165.	715.	2.9	338.0	337.2	0.8
J 5.000	121.	605.	3.3	339.9	339.0	0.9
K 6.000	229.	1074.	1.9	341.4	340.6	0.8
7.000	105.	461.	4.2	342.9	342.1	0.8
L 7.100	217.	769.	1.7	344.8	343.9	0.9 - DUPLICATED SECTION
7.200	216.	764.	1.7	344.8	343.9	0.9
7.400	30.	134.	9.6	344.1	343.5	0.6 } BRIDGE
M 8.000	30.	214.	6.0	346.9	345.9	1.0
8.100	165.	941.	1.4	347.6	346.8	0.8
N 111670.000	220.	1150.	1.1	347.6	346.8	0.8 - DUPLICATED SECTION
111720.000	67.	180.	7.1	351.2	351.2	0.0
111840.000	17.	129.	9.9	352.3	351.5	0.8 } BRIDGE
113840.000	17.	147.	8.7	353.3	352.3	1.0
	194.	1044.	1.2	357.3	356.5	0.8 } LIMIT OF STUDY AT 1121+40

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
ERROR CORR - 01
MODIFICATION - 50,51,52

CJ

SWIFT CREEK

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1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901
1 (TRIP 7 CONFLUENCE TO LIMIT OF STUDY) 1
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TUCC CHRISTMAS/NEW-YEAR SCHEDULE: HOLIDAY MODE WILL BEGIN AT 0000 HRS MON DEC 24
UNTIL 0800 HRS THUR DEC 27 AND 1600 HRS MON DEC 31 UNTIL 0800 HRS WED JAN 2.
INTERACTIVE AND REMOTE BATCH ONLY, NO WALK IN SERVICE, HP SERVICE NOT AFFECTED.

PROGRAMMER=DMC ACCOUNT=RTI.A25.P04503.C5097

JOB TURN-AROUND		JOB PARAMETERS			TIME USED INCLUDES		MISC. JOB VALUES	
DATE	TIME	SPECIFIED	USED	NO.	EQUIVALENT	LINES IN	LINES OUT	
ENTERED 12/17/79	10:51:57.9	TIME 1:00.0	0:23.2	CPU	0:05.6	167		
EXECUTED 12/17/79	17:53:41.5	PAGES 100	37	UR EXCPS 2214	0:08.9		1957	
RETURNED 12/19/79	13:41:02.0	CAPDS 0	0	DISK EXCPS 435	0:08.7		MEMORY TIME 11605 K-SEC	
JOB ENTERED ON MONDAY		PLOTS 0	0	TAPE READ-WRITE	0:00.0		PRIORITY 00	
				TAPE FILE SEARCH	0:00.0		APPROX. COST \$6.06	

JOB CONSOLE LOG

```
N 10.51.59 JOB 794 -- MACGREG -- JCL INTERPRETED, TUCC CPU #3
H 17.53.41 JOB 794 -- MACGREG -- BEGINNING EXEC - INIT 7 - CLASS
L 17.53.41 JOB 794 !!+++S=008,T=01,J=MACGREG 17:53:41 DMC
H 17.54.00 JOB 794 END EXECUTION.
```

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

T1 10 YEAR FLOOD WATER SURFACE PROFILE USING ADJUSTED FLOW
 T2 MACGREGOR DOWNS PHASE II JOB # 500097
 T3 SWIFT CREEK FROM TRIB. 7 CONFLUENCE TO NCSR 1435

J1	ICHECK	INQ	NINQ	TDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-1.	2.	0.	0.	0.0	0.0	0.0	0.	323.800	0.0
J2	MPROF	IPLT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	26.000	53.000
	54.000	25.000	50.000	0.0	201.000	0.0	0.0	0.0	0.0	0.0
NC	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	4.000	1200.000	2300.000	3000.000	5600.000	0.0	0.0	0.0	0.0	0.0
X1	0.100	25.000	1640.000	1682.000	101400.000	101400.000	101400.000	0.0	0.0	0.0
GR	333.800	1000.000	330.000	1100.000	328.600	1200.000	326.900	1300.000	326.100	1400.000
GR	324.400	1450.000	323.200	1600.000	324.100	1640.000	318.500	1650.000	318.300	1652.000
GR	317.100	1664.000	317.100	1675.000	317.500	1679.000	324.200	1682.000	323.800	1700.000
GR	323.000	1700.000	324.500	1750.000	323.600	1800.000	323.800	1850.000	323.900	1900.000
GR	324.600	2100.000	326.800	2150.000	329.300	2400.000	330.800	2450.000	335.800	2600.000
QT	4.000	960.000	1700.000	2120.000	4150.000	0.0	0.0	0.0	0.0	0.0
X1	0.300	20.000	1622.000	1651.000	750.000	750.000	750.000	0.0	-1.700	0.0
GR	328.000	1000.000	327.800	1150.000	327.100	1250.000	326.200	1300.000	326.300	1350.000
GR	325.400	1450.000	326.800	1500.000	326.100	1550.000	328.100	1600.000	326.700	1622.000
GR	326.700	1622.000	321.500	1632.000	321.200	1642.000	320.600	1646.000	321.000	1650.000
GR	326.400	1651.000	325.900	1700.000	327.000	1800.000	329.200	1835.000	344.900	1850.000
X1	0.610	0.0	0.0	0.0	750.000	750.000	750.000	0.0	1.700	0.0
X1	0.900	17.000	1846.000	1877.000	580.000	580.000	580.000	0.0	0.0	0.0
GR	335.700	1000.000	335.000	1050.000	333.400	1100.000	330.000	1350.000	329.900	1500.000
GR	329.300	1550.000	328.500	1650.000	329.100	1700.000	328.400	1750.000	326.700	1800.000
GR	327.800	1846.000	322.300	1854.000	322.100	1855.000	322.000	1858.000	322.600	1871.000
GR	327.900	1877.000	342.900	1895.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	0.910	13.000	1396.000	1437.000	1465.000	1465.000	1465.000	0.0	0.0	0.0
GR	334.000	1000.000	332.000	1100.000	330.000	1385.000	328.000	1396.000	326.000	1413.000

GR	324,000	1420,000	324,000	1421,000	324,000	1424,000	324,800	1437,000	328,000	1437,000
GR	330,000	1447,000	340,000	1462,000	350,000	1472,000	0.0	0.0	0.0	0.0
QT	4,000	950,000	1650,000	2100,000	4100,000	0.0	0.0	0.0	0.0	0.0
X1	105495,000	15,000	1030,000	1050,000	550,000	550,000	550,000	0.0	-0,800	0.0
GR	346,100	200,000	342,300	300,000	338,600	400,000	334,900	500,000	332,600	700,000
GR	332,600	800,000	332,600	900,000	331,600	1000,000	331,100	1038,000	327,300	1041,000
GR	326,900	1048,000	327,300	1055,000	330,600	1058,000	330,900	1005,000	348,100	1100,000
X1	105545,000	15,000	1088,000	1112,000	50,000	50,000	50,000	0.0	0.0	0.0
X3	10,000	0.0	0.0	0.0	0.0	0.0	0.0	344,800	344,800	0.0
GR	355,800	0.0	347,400	200,000	342,500	300,000	338,900	400,000	335,000	500,000
GR	333,000	700,000	332,800	800,000	332,800	900,000	331,900	1000,000	330,700	1088,000
GR	326,200	1088,100	326,200	1112,000	330,700	1112,100	348,500	1150,000	368,200	1300,000
SB	0,900	1,500	3,000	0.0	24,000	2,000	216,000	0.0	0.0	0.0
X1	105745,000	0.0	0.0	0.0	200,000	200,000	200,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X3	10,000	0.0	0.0	0.0	0.0	0.0	0.0	353,800	353,800	0.0
BT	9,000	0.0	355,000	0.0	900,000	353,800	0.0	1000,000	355,200	0.0
BT	1088,000	356,900	330,700	1088,100	356,900	335,800	1112,000	356,900	335,800	1112,100
BT	356,100	330,700	1200,000	368,200	0.0	1300,000	368,200	0.0	0.0	0.0
X1	1,000	24,000	1986,000	2011,000	50,000	50,000	50,000	0.0	0.0	0.0
GR	360,000	564,000	357,000	600,000	353,800	650,000	349,900	900,000	349,400	1100,000
GR	346,200	1253,000	343,400	1300,000	340,700	1400,000	338,500	1450,000	336,500	1500,000
GR	334,800	1550,000	333,400	1600,000	332,500	1650,000	332,100	1954,000	333,000	1957,000
GR	333,800	1965,000	332,200	1986,000	327,200	1994,000	327,100	2000,000	327,100	2006,000
GR	330,400	2011,000	330,500	2025,000	345,400	2050,000	360,000	2078,000	0.0	0.0
X1	2,000	20,000	989,000	1019,000	545,000	545,000	545,000	0.0	0.0	0.0
GR	354,700	100,000	351,900	250,000	352,300	300,000	345,100	700,000	340,900	800,000
GR	338,600	850,000	335,700	900,000	334,600	950,000	332,800	989,000	328,300	993,000
GR	328,000	1000,000	328,000	1007,000	332,900	1019,000	332,900	1100,000	330,200	1182,000
GR	333,300	1189,000	333,500	1350,000	335,000	1385,000	347,300	1400,000	356,600	1418,000
X1	3,000	15,000	988,000	1013,000	390,000	390,000	390,000	0.0	0.0	0.0
GR	359,900	438,000	356,600	500,000	349,600	700,000	342,700	800,000	338,800	900,000
GR	335,900	950,000	334,400	988,000	326,900	993,000	328,600	1000,000	329,000	1010,000
GR	334,200	1013,000	324,800	1250,000	338,500	1390,000	341,700	1400,000	360,000	1436,000
QT	4,000	920,000	1600,000	2000,000	4000,000	0.0	0.0	0.0	0.0	0.0
X1	4,000	16,000	928,000	1012,000	640,000	640,000	640,000	0.0	0.0	0.0
GR	360,000	537,000	358,600	550,000	351,700	600,000	345,900	650,000	341,500	700,000
GR	339,900	750,000	336,300	950,000	335,200	988,000	329,700	993,000	329,600	1000,000
GR	322,800	1000,000	335,600	1012,000	335,800	1050,000	338,300	1100,000	350,400	1150,000
GR	360,000	1171,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	5,000	20,000	960,000	1009,000	860,000	860,000	860,000	0.0	0.0	0.0
GR	360,000	106,000	352,900	150,000	345,600	187,000	345,400	200,000	344,100	350,000
GR	344,500	400,000	340,200	650,000	337,800	700,000	337,000	850,000	338,600	900,000
GR	337,400	950,000	337,400	950,000	333,800	966,000	333,500	991,000	332,100	1000,000
GR	332,700	1005,000	336,600	1009,000	337,600	1050,000	347,600	1100,000	360,000	1142,000
QT	4,000	890,000	1550,000	1950,000	3900,000	0.0	0.0	0.0	0.0	0.0
X1	6,000	24,000	988,000	1012,000	830,000	830,000	830,000	0.0	0.0	0.0
GR	360,000	378,000	356,100	400,000	352,200	446,000	351,400	449,000	351,300	452,000
GR	353,600	500,000	350,400	550,000	345,800	600,000	340,800	650,000	340,800	700,000

GR	341.500	850.000	338.800	901.000	337.900	907.000	338.000	926.000	340.400	932.000
GR	340.800	950.000	339.000	988.000	334.100	992.000	334.100	1000.000	334.600	1008.000
GR	339.300	1012.000	342.700	1025.000	354.400	1050.000	360.000	1069.000	0.0	0.0
QT	4.000	530.000	1000.000	1280.000	2300.000	0.0	0.0	0.0	0.0	0.0
X1	7.000	35.000	986.000	1012.000	550.000	550.000	550.000	0.0	-0.100	0.0
GR	360.000	51.000	353.700	100.000	351.700	140.000	357.400	152.000	357.000	200.000
GR	355.600	250.000	352.800	300.000	349.500	350.000	348.200	400.000	344.300	500.000
GR	342.800	531.000	344.100	550.000	345.700	600.000	346.500	650.000	346.700	676.000
GR	344.400	700.000	343.200	750.000	341.700	781.000	339.000	783.000	341.100	784.000
GR	341.400	850.000	340.300	860.000	342.100	869.000	341.600	986.000	337.400	994.000
GR	336.800	1000.000	336.900	1008.000	341.100	1012.000	341.100	1050.000	342.500	1100.000
GR	343.000	1150.000	345.200	1200.000	352.500	1250.000	358.300	1300.000	360.000	1354.000
X1	7.100	0.0	0.0	0.0	70.000	70.000	70.000	0.0	0.100	0.0
X1	7.200	41.000	985.000	1015.000	75.000	75.000	75.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	347.800	347.800	0.0
GR	360.000	171.000	357.000	200.000	355.600	250.000	352.800	300.000	349.500	350.000
GR	348.200	400.000	344.300	500.000	342.800	531.000	344.100	550.000	345.700	600.000
GR	346.500	650.000	346.700	676.000	344.400	700.000	343.200	750.000	341.700	781.000
GR	339.800	783.000	341.100	784.000	341.800	850.000	340.300	860.000	342.100	869.000
GR	341.500	985.000	339.000	986.200	337.800	989.000	339.000	991.800	341.800	993.000
GR	342.100	996.000	339.300	997.200	338.100	1000.000	339.300	1002.800	342.100	1004.000
GR	341.800	1007.000	339.000	1008.200	337.800	1011.000	339.000	1013.800	341.800	1015.000
GR	341.100	1050.000	342.500	1100.000	343.000	1150.000	345.200	1200.000	352.500	1250.000
GR	360.000	1270.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	3.000	0.0	24.000	6.000	150.800	0.0	0.0	0.0
X1	7.400	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
X2	0.0	0.0	1.000	346.100	349.800	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	349.800	349.800	0.0
BT	25.000	171.000	360.000	0.0	500.000	350.000	0.0	784.000	349.800	0.0
BT	850.000	349.900	0.0	900.000	555.800	0.0	950.000	352.500	0.0	985.000
BT	351.300	341.900	986.200	351.300	344.700	989.000	351.300	345.900	991.800	351.300
BT	344.700	993.000	351.300	341.900	996.000	351.300	342.200	997.200	351.300	343.400
BT	1000.000	351.300	338.200	1002.800	351.300	343.400	1004.000	351.300	342.300	1007.000
BT	351.300	341.900	1008.200	351.300	344.700	1011.000	351.300	345.900	1013.800	351.300
BT	344.700	1015.000	351.300	341.900	1100.000	353.800	0.0	1150.000	355.300	0.0
BT	1200.000	357.100	0.0	1270.000	360.000	0.0	0.0	0.0	0.0	0.0
X1	8.000	50.000	982.000	1014.000	75.000	75.000	75.000	0.0	0.0	0.0
GR	360.000	161.000	358.300	200.000	355.300	250.000	351.600	350.000	349.800	382.000
GR	348.000	369.000	350.300	400.000	350.900	500.000	355.500	550.000	358.800	600.000
GR	356.900	650.000	348.800	750.000	345.100	600.000	344.300	950.000	343.200	982.000
GR	339.200	986.000	338.200	1000.000	338.200	1010.000	341.400	1014.000	343.200	1126.000
GR	340.200	1143.000	344.500	1156.000	346.900	1250.000	348.800	1300.000	349.900	1350.000
GR	354.000	1400.000	352.600	1417.000	356.100	1450.000	356.400	1500.000	360.000	1528.000
X1	8.100	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
X1	111670.000	14.000	562.000	576.000	1740.000	1740.000	1740.000	0.0	-2.000	0.0
GR	361.700	0.0	359.400	100.000	357.600	200.000	355.700	300.000	353.400	400.000
GR	352.600	500.000	350.900	562.000	346.300	566.000	345.900	569.000	345.300	572.000
GR	351.100	576.000	351.300	600.000	355.500	700.000	363.200	730.000	0.0	0.0
X1	111720.000	12.000	2088.500	2105.500	50.000	50.000	50.000	0.0	0.0	0.0

 HFC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

T1 50 YEAR FLOOD WATER SURFACE PROFILE USING ADJUSTED FLOW
 T2 MACGREGOR DOWNS PHASE II JOB # 500097
 T3 SWIFT CREEK FROM TRIB. 7 CONFLUENCE TO NCSR 1435

J1	ICHECK	IND	NINV	IOIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	3.	0.	0.	0.0	0.0	0.0	0.	323.900	0.0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 2

CCHV= 0.100 CEHV= 0.300
 *SECNO .100

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLUSS	BANK ELEV
Q	OLCB	UCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XL0BL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3720	CRITICAL DEPTH ASSUMED								
0.10	7.55	324.65	324.65	323.90	325.24	0.59	0.0	0.0	324.10
2300.	252.	1772.	276.	168.	253.	234.	0.	0.	324.20
0.0	1.49	7.00	1.18	0.085	0.060	0.085	0.0	317.10	1442.65
0.008666	101400.	101400.	101400.	0	8	0	0.0	658.49	2101.14

*SECNO .800
 3280 CROSS SECTION 0.60 EXTENDED 0.68 FEET

3301 HV CHANGED MORE THAN HVINS

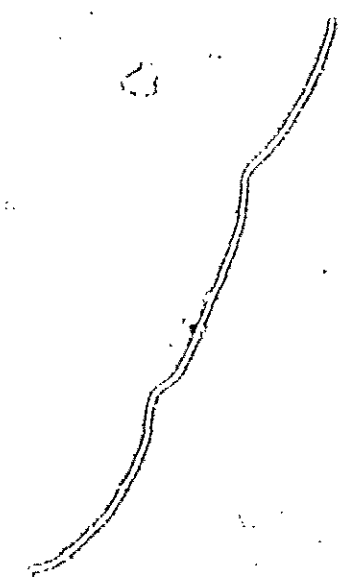
0.60	8.08	326.98	0.0	0.0	327.00	0.03	1.70	0.06	325.00
1700.	972.	406.	316.	1164.	187.	369.	20.	13.	324.70
0.18	1.24	2.17	0.86	0.085	0.060	0.085	0.060	318.90	1000.00
0.00825	750.	750.	750.	6	0	0	0.0	826.69	1826.69

*SECNO .010

0.01	7.33	327.93	0.0	0.0	328.01	0.08	0.99	0.02	326.70
1700.	850.	568.	282.	706.	165.	243.	45.	27.	326.40
0.29	1.20	3.44	1.16	0.085	0.060	0.085	0.060	320.60	1046.31
0.002428	750.	750.	750.	3	0	0	0.0	768.62	1814.93

*SECNO .900

0.90	7.73	329.73	0.0	0.0	330.04	0.31	1.96	0.07	327.80
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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

T1 100 YEAR FLOOD WATER SURFACE PROFILE USING ADJUSTED FLOW
 T2 MACGREGOR DOWNS PHASE II JOB # 500097
 T3 SWIFT CREEK FROM TRIB. 7 CONFLUENCE TO NCSR 1435

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	9	WSEL	FQ
	-10.	4.	0.	0.	0.0	0.0	0.0	0.	324.400	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF. 3

CCHV= 0.160 CEHV= 0.300

*SECNO .100

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

3720 CRITICAL DEPTH ASSUMED

0.10	0.82	324.92	324.92	324.40	325.55	0.63	0.0	0.0	324.10	
3000.	421.	2029.	550.	223.	265.	349.	0.	0.	324.20	
0.0	1.89	7.67	1.57	0.085	0.060	0.085	0.0	317.10	1434.63	
0.007805	101400.	101400.	101400.	0	8	0	0.0	672.70	2107.33	

*SECNO .800

3280 CROSS SECTION 0.80 EXTENDED 1.06 FEET

3301 HV CHANGED MORE THAN HVINS

0.80	8.46	327.36	0.0	0.0	327.39	0.03	1.77	0.06	325.00	
2120.	1275.	440.	405.	1403.	196.	438.	25.	13.	324.70	
0.18	0.91	2.22	0.93	0.085	0.060	0.085	0.060	316.90	1000.00	
0.000798	750.	750.	750.	6	0	0	0.0	832.80	1832.80	

*SECNO .910

3280 CROSS SECTION 0.81 EXTENDED 0.27 FEET

0.81	7.67	328.27	0.0	0.0	328.34	0.07	0.94	0.01	326.70	
2120.	1142.	602.	376.	912.	175.	299.	54.	27.	326.40	
0.29	1.25	3.44	1.26	0.085	0.060	0.085	0.060	320.60	1000.00	
0.002255	750.	750.	750.	4	0	0	0.0	820.24	1820.24	

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

T1 500 YEAR FLOOD WATER SURFACE PROFILE USING ADJUSTED FLOW
 T2 MACGREGOR DOWNS PHASE II JOB # 500097
 T3 SWIFT CREEK FROM TRTB. 7 CONFLUENCE TO NCSR 1435

J1	ICHECK	INC	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	5.	0.	0.	0.0	0.0	0.0	0.	325.800	0.0
J2	NPROF	JPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 4

CCHV= 0.100 CEHV= 0.500

*SECH0 .100

SECH0	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	LOSS	BANK ELEV
Q	ALOB	VCH	QROB	ALOB	ACH	AROB	WOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XHL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOUR	ITSIAL	IDC	ICONT	LORAR	TOPWID	ENDST
0.10	3.70	325.80	0.0	325.80	326.39	0.59	0.0	0.0	324.10
5600.	1145.	2596.	1656.	415.	302.	731.	0.	0.	324.20
0.0	2.76	8.62	2.54	0.005	0.060	0.085	0.0	317.10	1408.82
0.010407	101400.	101400.	101400.	0	0	0	0.0	718.46	2127.28

*SECH0 .300

3280 CROSS SECTION 0.89 EXTENDED 2.17 FEET

3301 HV CHANGED MORE THAN HVINS

0.50	1.57	328.47	0.0	0.0	328.51	0.04	2.07	0.06	325.00
4150.	2580.	624.	856.	2092.	230.	642.	38.	13.	324.70
0.14	1.23	2.76	1.30	0.085	0.060	0.085	0.060	318.90	1000.00
0.001000	750.	750.	750.	5	0	0	0.0	835.93	1835.93

*SECH0 .910

3280 CROSS SECTION 0.81 EXTENDED 1.47 FEET

0.81	3.87	329.47	0.0	0.0	329.54	0.01	1.02	0.01	326.70
4150.	2581.	757.	813.	1659.	210.	513.	84.	28.	326.40
0.25	1.56	3.61	1.58	0.085	0.060	0.085	0.060	320.60	1000.00
0.001944	750.	750.	750.	5	0	0	0.0	835.26	1835.26

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

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

SWIFT CREEK FROM TRIB. 7

SUMMARY PRINTOUT

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRISW	VCH	SSTA	ENDST	AREA	DIFWSP	
A	1014+00	0.100	101400.00	0.0	0.0	1200.00	317.10	323.40	0.0	5.95	1574.97	1681.64	204.73	0.0
		0.100	101400.00	0.0	0.0	2300.00	317.10	324.65	324.65	7.00	1442.65	2101.14	655.89	1.25
		0.100	101400.00	0.0	0.0	3000.00	317.10	324.92	324.92	7.67	1434.63	2107.33	837.24	0.27
		0.100	101400.00	0.0	0.0	5600.00	317.10	325.80	0.0	8.62	1408.82	2127.28	1447.74	0.88
	1021+50	0.800	750.00	0.0	0.0	960.00	318.90	325.99	0.0	2.31	1165.94	1810.95	942.41	0.0
		0.800	750.00	0.0	0.0	1700.00	318.90	326.98	0.0	2.17	1000.00	1826.69	1720.12	0.99
		0.800	750.00	0.0	0.0	2120.00	318.90	327.36	0.0	2.22	1000.00	1832.80	2038.68	0.38
		0.800	750.00	0.0	0.0	4150.00	318.90	328.47	0.0	2.76	1000.00	1835.93	2963.45	1.11
B	1029+00	0.810	750.00	0.0	0.0	960.00	320.60	327.22	0.0	3.32	1232.40	1803.55	659.56	0.0
		0.810	750.00	0.0	0.0	1700.00	320.60	327.93	0.0	3.44	1046.31	1814.93	1114.53	0.71
		0.810	750.00	0.0	0.0	2120.00	320.60	328.27	0.0	3.44	1000.00	1820.24	1386.36	0.34
		0.810	750.00	0.0	0.0	4150.00	320.60	329.47	0.0	3.61	1000.00	1835.26	2382.46	1.20
C	1034+80	0.900	580.00	0.0	0.0	960.00	322.00	328.97	0.0	4.37	1631.74	1878.29	332.18	0.0
		0.900	580.00	0.0	0.0	1700.00	322.00	329.73	0.0	5.49	1514.01	1879.20	573.44	0.76
		0.900	580.00	0.0	0.0	2120.00	322.00	330.04	0.0	5.92	1347.51	1879.56	699.65	0.30
		0.900	580.00	0.0	0.0	4150.00	322.00	331.12	0.0	6.83	1268.10	1880.86	1317.73	1.08
D	1049+45	0.910	1465.00	0.0	0.0	960.00	324.00	331.96	0.0	2.75	1106.19	1449.93	600.65	0.0
		0.910	1465.00	0.0	0.0	1700.00	324.00	333.11	0.0	3.09	1044.59	1451.66	1035.23	1.15
		0.910	1465.00	0.0	0.0	2120.00	324.00	333.58	0.0	3.26	1020.77	1452.38	1234.99	0.48
		0.910	1465.00	0.0	0.0	4150.00	324.00	335.15	0.0	4.01	1000.00	1454.72	1939.70	1.56
E	105495.000	550.00	0.0	0.0	950.00	326.10	332.79	0.0	3.27	613.94	1087.35	672.36	0.0	
		550.00	0.0	0.0	1650.00	326.10	333.85	0.0	3.05	521.35	1088.27	1226.26	1.06	
		550.00	0.0	0.0	2100.00	326.10	334.33	0.0	3.09	493.86	1088.69	1502.57	0.47	
		550.00	0.0	0.0	4100.00	326.10	335.93	0.0	3.31	450.48	1090.09	2493.14	1.60	
	105545.000	50.00	0.0	0.0	950.00	326.20	332.60	0.0	6.19	1088.00	1112.00	153.50	0.0	
		50.00	0.0	0.0	1650.00	326.20	332.92	0.0	10.24	1088.00	1112.00	161.19	0.32	
		50.00	0.0	0.0	2100.00	326.20	332.38	332.38	14.17	1088.00	1112.00	148.21	-0.54	
		50.00	0.0	0.0	4100.00	326.20	335.82	335.82	17.79	1088.00	1112.00	230.62	3.43	
US HIGHWAY 1														
	105745.000	200.00	353.80	353.80	950.00	326.20	332.71	0.0	6.08	1088.00	1112.00	156.13	0.0	
		200.00	353.80	353.80	1650.00	326.20	333.52	0.0	9.41	1088.00	1112.00	175.43	0.80	
		200.00	353.80	353.80	2100.00	326.20	334.80	0.0	10.19	1088.00	1112.00	206.07	1.28	
		200.00	353.80	353.80	4100.00	326.20	342.50	0.0	10.48	1088.00	1112.00	391.07	7.71	

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
F 1057+95	1.000	50.00	0.0	0.0	950.00	327.10	333.42	0.0	3.80	1599.17	2029.77	552.87	0.0
	1.000	50.00	0.0	0.0	1650.00	327.10	335.11	0.0	2.60	1541.14	2032.60	1323.74	1.68
	1.000	50.00	0.0	0.0	2100.00	327.10	336.61	0.0	1.95	1497.38	2035.14	2097.89	1.50
	1.000	50.00	0.0	0.0	4100.00	327.10	344.38	0.0	0.98	1282.47	2048.28	7135.36	7.78
G 1063+40	2.000	545.00	0.0	0.0	950.00	328.00	334.51	0.0	2.43	952.02	1373.48	767.92	0.0
	2.000	545.00	0.0	0.0	1650.00	328.00	335.64	0.0	2.48	902.87	1385.78	1281.35	1.13
	2.000	545.00	0.0	0.0	2100.00	328.00	336.86	0.0	2.05	880.04	1387.27	1886.79	1.22
	2.000	545.00	0.0	0.0	4100.00	328.00	344.41	0.0	1.06	716.51	1396.47	6330.13	7.55
H 1067+30	3.000	390.00	0.0	0.0	950.00	328.60	335.21	0.0	5.47	967.53	1265.43	317.07	0.0
	3.000	390.00	0.0	0.0	1650.00	328.60	336.22	0.0	5.23	944.41	1303.88	651.96	1.01
	3.000	390.00	0.0	0.0	2100.00	328.60	337.18	0.0	4.22	927.98	1339.94	1019.64	0.96
	3.000	390.00	0.0	0.0	4100.00	328.60	344.43	0.0	1.41	774.98	1405.36	4955.56	7.26
I 1073+70	4.000	640.00	0.0	0.0	920.00	329.60	337.77	0.0	3.79	868.34	1089.40	422.49	0.0
	4.000	640.00	0.0	0.0	1600.00	329.60	338.65	0.0	4.70	819.08	1101.47	647.24	0.88
	4.000	640.00	0.0	0.0	2000.00	329.60	338.99	0.0	5.18	800.11	1102.88	747.13	0.34
	4.000	640.00	0.0	0.0	4000.00	329.60	344.54	0.0	2.41	665.47	1125.78	2987.78	5.54
J 1082+30	5.000	860.00	0.0	0.0	920.00	332.10	339.12	0.0	2.25	673.48	1057.63	726.61	0.0
	5.000	860.00	0.0	0.0	1600.00	332.10	340.17	0.0	2.51	652.49	1062.88	1143.53	1.05
	5.000	860.00	0.0	0.0	2000.00	332.10	340.64	0.0	2.67	629.84	1065.19	1338.70	0.46
	5.000	860.00	0.0	0.0	4000.00	332.10	344.82	0.0	1.90	266.56	1086.12	3778.50	4.19
K 1090+60	6.000	830.00	0.0	0.0	890.00	334.10	340.53	0.0	5.05	868.24	1016.72	259.30	0.0
	6.000	830.00	0.0	0.0	1550.00	334.10	341.57	0.0	5.84	733.46	1020.70	482.59	1.04
	6.000	830.00	0.0	0.0	1950.00	334.10	342.06	0.0	5.94	700.23	1022.56	631.12	0.49
	6.000	830.00	0.0	0.0	3900.00	334.10	345.20	0.0	4.00	611.23	1030.35	1842.91	3.15
1096+10	7.000	550.00	0.0	0.0	530.00	336.70	342.54	0.0	2.55	761.35	1115.07	427.08	0.0
	7.000	550.00	0.0	0.0	1000.00	336.70	343.47	0.0	2.64	515.14	1162.89	801.26	0.92
	7.000	550.00	0.0	0.0	1280.00	336.70	343.85	0.0	2.73	507.12	1171.71	985.36	0.39
	7.000	550.00	0.0	0.0	2300.00	336.70	345.82	0.0	2.14	458.38	1204.95	2145.02	1.97
L 1096+80	7.100	70.00	0.0	0.0	530.00	336.80	342.66	0.0	2.54	761.19	1115.84	429.82	0.0
	7.100	70.00	0.0	0.0	1000.00	336.80	343.56	0.0	2.64	515.23	1162.79	799.19	0.90
	7.100	70.00	0.0	0.0	1280.00	336.80	343.95	0.0	2.74	507.31	1171.50	980.96	0.38
	7.100	70.00	0.0	0.0	2300.00	336.80	345.86	0.0	2.19	459.94	1204.54	2104.06	1.92
1097+55	7.200	75.00	0.0	0.0	530.00	337.80	342.61	0.0	6.01	985.00	1015.00	88.14	0.0
	7.200	75.00	0.0	0.0	1000.00	337.80	342.89	342.89	10.34	985.00	1015.00	96.67	0.29
	7.200	75.00	0.0	0.0	1280.00	337.80	343.47	343.47	11.22	985.00	1015.00	114.12	0.58
	7.200	75.00	0.0	0.0	2300.00	337.80	345.30	345.30	13.61	985.00	1015.00	169.03	1.83
1098+05	7.400	50.00	349.80	NCSR 346.10	530.00	337.90	343.06	0.0	5.36	985.00	1015.00	98.83	0.0
	7.400	50.00	349.80	346.10	1000.00	337.90	344.66	0.0	6.81	985.00	1015.00	146.83	1.60
	7.400	50.00	349.80	346.10	1280.00	337.90	345.89	0.0	6.97	985.00	1015.00	183.67	1.23
	7.400	50.00	349.80	346.10	2300.00	337.90	350.15	0.0	0.61	341.62	1233.24	5445.91	4.26
M 1098+80	8.000	75.00	0.0	0.0	530.00	338.20	343.73	0.0	2.38	966.55	1153.67	363.04	0.0
	8.000	75.00	0.0	0.0	1000.00	338.20	345.56	0.0	2.16	845.16	1197.43	821.66	1.83
	8.000	75.00	0.0	0.0	1280.00	338.20	346.78	0.0	1.82	787.39	1245.34	1329.05	1.22
	8.000	75.00	0.0	0.0	2300.00	338.20	350.15	0.0	1.36	375.76	1352.56	3158.10	3.37

SECNO	XLCH	ELIRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
8.100	50.00	0.0	0.0	530.00	338.30	343.80	0.0	2.42	967.48	1153.58	357.10	0.0
1099+30 8.100	50.00	0.0	0.0	1000.00	338.30	345.59	0.0	2.22	850.58	1194.88	799.00	1.79
8.100	50.00	0.0	0.0	1280.00	338.30	346.80	0.0	1.87	788.89	1242.17	1292.17	1.21
8.100	50.00	0.0	0.0	2300.00	338.30	350.16	0.0	1.38	377.48	1351.57	3096.20	3.36
111670.000	1740.00	0.0	0.0	530.00	343.30	349.55	348.72	8.56	538.54	605.79	75.79	0.0
* 111670.000	1740.00	0.0	0.0	1000.00	343.30	350.80	350.80	8.54	474.37	635.83	210.50	1.25
* 111670.000	1740.00	0.0	0.0	1280.00	343.30	351.17	351.17	8.81	428.23	644.62	280.24	0.37
* 111670.000	1740.00	0.0	0.0	2300.00	343.30	351.94	351.94	10.07	376.64	662.79	476.96	0.76
111720.000	50.00	0.0	0.0	530.00	344.50	350.90	0.0	4.98	2088.50	2105.50	106.36	0.0
111720.000	50.00	0.0	0.0	1000.00	344.50	351.44	0.0	8.65	2088.50	2105.50	115.58	0.54
111720.000	50.00	0.0	0.0	1280.00	344.50	351.50	0.0	10.97	2088.50	2105.50	116.67	0.06
* 111720.000	50.00	0.0	0.0	2300.00	344.50	352.91	352.91	16.36	2088.50	2105.50	140.62	1.42
US HIGHWAY 64												
111840.000	120.00	358.70	354.10	530.00	344.50	350.94	0.0	4.95	2088.50	2105.50	107.04	0.0
111840.000	120.00	358.70	354.10	1000.00	344.50	351.79	0.0	8.34	2088.50	2105.50	119.97	0.76
* 111840.000	120.00	358.70	354.10	1280.00	344.50	352.26	0.0	9.88	2088.50	2105.50	129.52	0.56
* 111840.000	120.00	358.70	354.10	2300.00	344.50	358.76	0.0	1.69	1780.61	2169.34	2291.17	6.50
LIMIT OF STUDY AT 1121+40												
113680.000	2000.00	0.0	0.0	530.00	345.90	354.33	0.0	1.90	359.51	672.17	591.38	0.0
113680.000	2000.00	0.0	0.0	1000.00	345.90	355.74	0.0	1.88	297.69	700.95	1099.66	1.41
113680.000	2000.00	0.0	0.0	1280.00	345.90	356.47	0.0	1.81	259.74	703.76	1405.12	0.72
113680.000	2000.00	0.0	0.0	2300.00	345.90	359.18	0.0	1.50	112.15	714.34	2823.40	2.71

SUMMARY OF ERRORS

CAUTION SECNO= 0.100 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.100 PROFILE= 3 CRITICAL DEPTH ASSUMED

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

CAUTION SECNO=***** PROFILE= 2 HYDRAULIC JUMP D.S.
CAUTION SECNO=***** PROFILE= 3 HYDRAULIC JUMP D.S.
CAUTION SECNO=***** PROFILE= 4 HYDRAULIC JUMP D.S.

CAUTION SECNO= 7.200 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 7.200 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 7.200 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 7.200 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 7.200 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 7.200 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 7.200 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 7.200 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 7.200 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 7.400 PROFILE= 2 HYDRAULIC JUMP D.S.
CAUTION SECNO= 7.400 PROFILE= 3 HYDRAULIC JUMP D.S.
CAUTION SECNO= 7.400 PROFILE= 4 HYDRAULIC JUMP D.S.

CAUTION SECNO=***** PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=***** PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY

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

CAUTION SECNO=***** PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=***** PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=***** PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=***** PROFILE= 3 HYDRAULIC JUMP D.S.
CAUTION SECNO=***** PROFILE= 4 HYDRAULIC JUMP D.S.