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SPENCER, N. C.

SPRING HILL BRANCH

PROGRAMMER=KEZIAH ACCOUNT=HTI.A25.P03078

JOB TURN-AROUND JOB PARAMETERS TIME USED INCLUDES MISC. JOB VALUES

	DATE	TIME	SPECIFIED	USED	NO.	EQUIVALENT			
ENTERED	10/06/77	15:56:09.3	TIME	2:00.0	0:16.9	CPU	0:04.9	LINES IN 115	
EXECUTED	10/06/77	18:23:47.0	PAGES	100	13	UR EXCPS	777	0:03.1	LINES OUT 575
RETURNED	10/07/77	12:25:24.2	CARDS	0	0	DISK EXCPS	444	0:08.9	MEMORY TIME 8440 K-SEC
JOB ENTERED ON THURSDAY			PLOTS	0	0	TAPE READ-WRITE		0:00.0	PRIORITY 00
						TAPE FILE SEARCH		0:00.0	APPROX. COST \$3.45

JOB CONSOLE LOG

N 18.23.43 JOB 557 -- RMAKS9 -- JCL INTERPRETED, TUCC CPU #2
 N 18.23.46 JOB 557 -- RMAKS9 -- BEGINNING EXEC - INIT 4 - CLASS
 L 18.23.47 JOB 557 ++++S=068,T=02,J=RMAKS9 18:23:47 KEZIAH
 N 18.25.22 JOB 557 END EXECUTION.

//RMAKS9 JOB RTI,A25,P03078,KEZIAH,M=1,T=2,P=100,PRTY=7

***PROCLIB=RTI.MG.PROCLIB

// EXEC HEC2

XXG EXEC PGM=HEC2,R=500K	00000010
XXSTEPLIB DD DSN=RTI,A25,P03078,JCW.LIB,LOAD,DISP=SHR	00000020
XXFT03F001 DD SYSOUT=A	00000030
XXFT01F001 DD DDNAME=SYSIN	00000040
XXFT91F001 DD DSN=&I91,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000050
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000060
XXFT92F001 DD DSN=&I92,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000070
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000080
XXFT93F001 DD DSN=&I93,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000090
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000100
XXFT94F001 DD DSN=&I94,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000110
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000120
XXFT95F001 DD DSN=&I95,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000130
XX DCB=(BUFNO=1,RECFM=VBS,LRECL=1010,BLKSIZE=6400)	00000140
XXFT96F001 DD DSN=&I96,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000150
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000160

//SYSIN DD *

//

IEF236I ALLOC. FOR RMAKS9 G

IEF237I 177 ALLOCATED TO STEPLIB

IEF237I 564 ALLOCATED TO FT03F001

IEF237I 505 ALLOCATED TO FT01F001

IEF237I 15C ALLOCATED TO FT91F001

IEF237I 15C ALLOCATED TO FT92F001

IEF237I 15C ALLOCATED TO FT93F001

IEF237I 15C ALLOCATED TO FT94F001

IEF237I 15C ALLOCATED TO FT95F001

IEF237I 15C ALLOCATED TO FT96F001

IEF142I - STEP WAS EXECUTED - COND CODE 0000

IEF285I RTI.A25.P03078.JCW.LIB,LOAD KEPT

IEF285I VOL SER NOS= RTI444.

IEF285I SYS77279.T182343.RV001.RMAKS9.I91 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T182343.RV001.RMAKS9.I92 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T182343.RV001.RMAKS9.I93 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T182343.RV001.RMAKS9.I94 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T182343.RV001.RMAKS9.I95 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T182343.RV001.RMAKS9.I96 DELETED

IEF285I VOL SER NOS= SPARE7.

G CORE=500K TIME---0:15.3 UR---725 RD/WR---0:00.0 RC-----0

G USED=234K CPU---0:04.9 DISK---418 REWIND---0:00.0

G I/O---0:10.4 TAPE-----0 FL SR---0:00.0

RMAKS9 TIME---0:15.3

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

T1 SPENCER-ROWAN CO. BASIN E STRM 98 SPRING HILL BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ
 -1. 2. 0. 0. 0.016000 0.0 0.0 0. 648.500 0.0

J2 NPROF IPILOT PRFVS XSECV XSECH FN ALLDC IRW 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

J5 LPRNT NUMSEC *****REQUESTED SECTION NUMBERS*****

-10.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

NC 0.055 0.055 0.035 0.100 0.300 0.0 0.0 0.0 0.0 0.0
 QT 5.000 212.000 488.000 516.000 789.000 516.000 0.0 0.0 0.0 0.0
 ET 5.000 0.0 0.0 0.0 0.0 0.0 -10.400 0.0 0.0 0.0

X1 40.000 15.000 1207.000 1226.000 40.000 40.000 40.000 0.0 0.0 0.0
 GR 665.600 1000.000 654.900 1100.000 651.000 1132.000 648.200 1200.000 648.400 1207.000
 GR 645.400 1215.000 643.500 1216.500 645.300 1218.000 647.000 1226.000 648.400 1304.000
 GR 649.700 1318.000 652.000 1380.000 657.700 1400.000 664.300 1500.000 665.600 1518.000

X1 90.000 0.0 0.0 0.0 50.000 50.000 50.000 0.0 0.200 0.0
 NC 0.025 0.025 0.025 0.100 0.300 0.0 0.0 0.0 0.0 0.0

X1 140.000 30.000 1790.300 1800.800 50.000 50.000 50.000 0.0 0.0 0.0
 GR 664.300 1000.000 651.400 1100.000 659.300 1200.000 656.800 1300.000 655.300 1400.000
 GR 554.000 1500.000 651.800 1600.000 649.800 1700.000 649.600 1757.000 648.700 1779.000
 GR 648.900 1785.000 645.800 1790.300 644.300 1791.000 644.000 1792.000 644.300 1793.000
 GR 645.800 1795.000 645.600 1797.300 644.100 1798.000 643.800 1799.000 644.100 1800.000
 GR 645.600 1800.000 648.400 1805.000 649.100 1844.000 648.900 1900.000 649.500 1952.000
 GR 649.600 1955.000 650.800 2000.000 653.700 2050.000 657.500 2100.000 655.900 2183.000
 SB 0.900 1.500 2.500 0.0 7.000 0.010 38.500 0.0 0.0 0.0

X1 182.000 0.0 0.0 0.0 42.000 42.000 42.000 0.0 0.0 0.0
 X2 0.0 0.0 1.000 647.500 648.900 0.0 0.0 0.0 0.0 0.0
 BT 25.000 1000.000 654.300 0.0 1100.000 661.400 0.0 1200.000 659.300 0.0
 BT 1300.000 656.300 0.0 1400.000 658.300 0.0 1500.000 654.000 0.0 1600.000
 BT 651.800 0.0 1700.000 649.800 0.0 1790.300 649.400 645.800 1791.000 649.400

X1	182,000	0.0	0.0	0.0	42,000	42,000	42,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	647,500	648,900	0.0	0.0	0.0	0.0	0.0
BT	25,000	1000,000	664,300	0.0	1100,000	661,400	0.0	1200,000	659,300	0.0
BT	1300,000	656,900	0.0	1400,500	655,300	0.0	1500,000	654,000	0.0	1600,000
BT	651,800	0.0	1700,000	649,800	0.0	1790,300	649,400	645,800	1791,000	649,400
BT	647,200	1792,900	649,400	647,500	1793,000	649,400	647,200	1793,800	649,400	645,800
BT	1797,300	649,400	645,600	1798,000	649,400	647,000	1799,000	649,400	647,300	1800,000
ET	649,400	647,000	1800,800	649,400	645,600	1900,000	648,900	0.0	1952,000	649,500
BT	0.0	1955,000	649,600	0.0	2000,000	650,800	0.0	2050,000	653,700	0.0
BT	2100,000	657,500	0.0	2183,000	665,900	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	232,000	15,000	1207,000	1226,000	50,000	50,000	50,000	0.0	1,000	0.0
GR	665,600	1000,000	654,900	1100,000	651,000	1132,000	648,200	1200,000	648,400	1207,000
GR	645,400	1215,000	643,500	1216,500	645,300	1218,000	647,900	1226,000	648,400	1304,000
GR	649,700	1318,000	652,800	1380,000	657,700	1400,000	664,300	1500,000	665,600	1518,000
X1	282,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	0.200	0.0
QT	5,000	211,000	407,000	515,000	788,000	515,000	0.0	0.0	0.0	0.0
X1	350,000	13,000	1083,000	1264,000	68,000	68,000	68,000	0.0	-0.800	0.0
GR	680,100	1000,000	672,300	1050,000	668,100	1074,000	667,400	1083,000	659,300	1089,000
GR	652,500	1112,000	650,800	1150,000	655,600	1218,000	662,800	1257,000	665,900	1264,000
GR	668,600	1300,000	675,000	1400,000	680,100	1467,000	0.0	0.0	0.0	0.0
X1	430,000	0.0	0.0	0.0	80,000	80,000	80,000	0.0	0.800	0.0
X1	450,000	0.0	0.0	0.0	20,000	20,000	20,000	0.0	0.200	0.0
SB	0.900	1.500	2.500	0.0	0.100	0.010	0.100	0.0	0.0	0.0
X1	460,000	0.0	0.0	0.0	10,000	10,000	10,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	0.0	659,300	0.0	0.0	0.0	0.0	0.0
BT	14,000	1000,000	680,100	0.0	1050,000	672,300	0.0	1074,000	668,100	0.0
BT	1083,000	667,400	0.0	1089,000	659,300	0.0	1092,000	662,500	0.0	1100,000
BT	661,400	0.0	1150,000	662,100	0.0	1200,000	662,500	0.0	1257,000	662,800
BT	0.0	1264,000	665,900	0.0	1300,000	668,600	0.0	1400,000	675,000	0.0
BT	1467,000	680,100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	480,000	0.0	0.0	0.0	20,000	20,000	20,000	0.0	0.400	0.0
X1	560,000	0.0	0.0	0.0	80,000	80,000	80,000	0.0	0.800	0.0
QT	5,000	200,000	431,000	489,000	747,000	489,000	0.0	0.0	0.0	0.0
X1	1520,000	10,000	1043,000	1051,000	960,000	960,000	960,000	0.0	-4.800	0.0
GR	692,200	1000,000	677,500	1025,000	676,100	1043,000	673,300	1044,000	673,300	1050,000
GR	675,800	1051,000	677,200	1100,000	677,700	1115,000	691,500	1200,000	693,200	1212,000
X1	1570,000	0.0	0.0	0.0	50,000	50,000	50,000	0.500	0.0	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	1620,000	22,000	1234,000	1238,000	50,000	50,000	50,000	0.0	0.0	0.0
GR	698,600	1000,000	697,400	1050,000	695,800	1100,000	693,400	1150,000	688,300	1189,000
GR	673,600	1214,000	672,200	1232,000	671,400	1234,000	669,700	1235,000	669,400	1236,000
GR	669,700	1237,000	671,400	1238,000	671,900	1240,000	673,300	1289,000	673,800	1304,000
GR	687,600	1389,000	689,300	1401,000	692,400	1450,000	694,700	1500,000	696,300	1550,000
GR	690,300	1600,000	698,600	1613,000	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	4,000	0.010	12,600	0.0	0.0	0.0
X1	1717,000	0.0	0.0	0.0	87,000	87,000	87,000	0.0	0.0	0.0

HEC2 RELEASE DATED NOV 76, UPDATED FEB 1977

ERROR CORR = 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E. STRM 9S. SPRING HILL BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES N-G JOB NO. 6918
T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NTNV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	3.	0.	0.	0.016000	0.0	0.0	0.	649.500	0.0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SPENCER-ROWAN CO. BASIN E STRM 9S SPRING HILL BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FD
	-10.	5.	0.	0.	0.016000	0.0	0.0	0.	651.500	0.0

J2	NPROF	IPLUT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CPNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	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

10 YEAR FLOOD WATER SURF
 SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
* 40.000	40.00	0.0	0.0	212.00	643.50	648.14	648.14	6.22	1207.68	1264.16	58.23	0.0
* 40.000	40.00	0.0	0.0	408.00	643.50	648.84	648.84	6.28	1184.38	1308.77	110.69	0.70
* A 40.000	40.00	0.0	0.0	516.00	643.50	649.01	649.01	6.82	1180.25	1310.60	132.36	0.17
* 40.000	40.00	0.0	0.0	789.00	643.50	649.38	649.38	7.77	1171.32	1314.56	182.66	0.37
90.000	50.00	0.0	0.0	212.00	643.70	648.87	0.0	3.84	1188.48	1306.96	90.23	0.0
90.000	50.00	0.0	0.0	408.00	643.70	649.35	0.0	4.76	1176.67	1312.19	151.97	0.49
90.000	50.00	0.0	0.0	516.00	643.70	649.57	0.0	5.09	1171.41	1314.52	182.13	0.22
90.000	50.00	0.0	0.0	789.00	643.70	650.00	0.0	5.82	1161.04	1320.09	246.52	0.43
140.000	50.00	0.0	0.0	212.00	643.80	648.94	0.0	3.93	1773.29	1902.91	67.48	0.0
140.000	50.00	0.0	0.0	408.00	643.80	649.46	0.0	4.83	1760.28	1948.99	147.52	0.52
140.000	50.00	0.0	0.0	516.00	643.80	649.75	0.0	4.51	1712.77	1960.82	208.18	0.29
140.000	50.00	0.0	0.0	789.00	643.80	650.27	0.0	4.09	1676.36	1980.23	353.51	0.52
182.000	42.00	648.90	647.50	212.00	643.80	649.30	0.0	2.97	1764.39	1934.43	117.36	0.0
182.000	42.00	648.90	647.50	408.00	643.80	649.75	0.0	3.59	1714.42	1960.60	206.75	0.45
182.000	42.00	648.90	647.50	516.00	643.80	649.94	0.0	3.70	1692.82	1967.89	258.23	0.19
182.000	42.00	648.90	647.50	789.00	643.80	650.40	0.0	3.65	1670.19	1984.86	391.67	0.45
* 232.000	50.00	0.0	0.0	212.00	644.50	649.13	649.13	6.30	1207.73	1261.38	37.25	0.0
* 232.000	50.00	0.0	0.0	408.00	644.50	649.34	649.34	6.29	1184.42	1308.76	110.50	0.71
* 232.000	50.00	0.0	0.0	516.00	644.50	650.02	650.02	6.79	1180.11	1310.67	133.13	0.18
* 232.000	50.00	0.0	0.0	789.00	644.50	650.37	650.37	7.82	1171.54	1314.47	181.40	0.35
282.000	50.00	0.0	0.0	212.00	644.70	649.87	0.0	3.83	1188.38	1307.00	90.68	0.0
282.000	50.00	0.0	0.0	408.00	644.70	650.36	0.0	4.76	1176.65	1312.20	152.06	0.48
B 282.000	50.00	0.0	0.0	516.00	644.70	650.57	0.0	5.11	1171.49	1314.49	181.67	0.21
282.000	50.00	0.0	0.0	789.00	644.70	651.00	0.0	5.81	1160.94	1320.17	247.15	0.43
* 350.000	68.00	0.0	0.0	211.00	650.00	651.52	651.52	5.00	1116.02	1171.54	42.21	0.0
* 350.000	68.00	0.0	0.0	407.00	650.00	651.95	651.95	5.88	1111.04	1177.70	69.18	0.43
* C 350.000	68.00	0.0	0.0	515.00	650.00	652.15	652.15	6.25	1110.48	1180.45	82.42	0.19
* 350.000	68.00	0.0	0.0	788.00	650.00	652.57	652.57	6.97	1109.07	1186.36	113.14	0.42
430.000	80.00	0.0	0.0	211.00	650.80	652.63	0.0	3.44	1111.55	1175.99	61.26	0.0
430.000	80.00	0.0	0.0	407.00	650.80	653.11	0.0	4.34	1109.95	1182.69	93.73	0.48
430.000	80.00	0.0	0.0	515.00	650.80	653.32	0.0	4.70	1109.23	1185.70	109.57	0.21
430.000	80.00	0.0	0.0	788.00	650.80	653.77	0.0	5.40	1107.70	1192.08	145.82	0.45

430,000	80,00	0,0	0,0	515,00	650,80	653,32	0,0	4,70	1109,23	1183,70	109,37	0,21
430,000	80,00	0,0	0,0	788,00	650,80	653,77	0,0	5,40	1107,70	1192,08	145,82	0,45

SECNO	XLCH	ELTR0	ELLC	Q	ELMIN	CWSEL	CRINS	VCH	SSTA	ENDST	AREA	DIFWSP
450,000	20,00	0,0	0,0	211,00	651,00	652,77	0,0	3,72	1111,79	1174,97	56,68	0,0
450,000	20,00	0,0	0,0	407,00	651,00	653,25	0,0	4,55	1110,15	1181,84	89,37	0,48
450,000	20,00	0,0	0,0	515,00	651,00	653,46	0,0	4,93	1109,46	1184,75	104,47	0,21
450,000	20,00	0,0	0,0	788,00	651,00	653,91	0,0	5,59	1107,90	1191,28	141,03	0,45
460,000	10,00	659,30	0,0	211,00	651,00	662,73	0,0	0,16	1086,60	1255,56	1335,15	0,0
460,000	10,00	659,30	0,0	407,00	651,00	663,11	0,0	0,29	1086,32	1257,26	1400,09	0,38
460,000	10,00	659,30	0,0	515,00	651,00	663,29	0,0	0,36	1086,19	1257,65	1429,43	0,17
460,000	10,00	659,30	0,0	788,00	651,00	663,66	0,0	0,53	1085,91	1258,51	1494,95	0,38
480,000	20,00	0,0	0,0	211,00	651,40	662,73	0,0	0,17	1086,90	1253,40	1267,99	0,0
480,000	20,00	0,0	0,0	407,00	651,40	663,11	0,0	0,31	1086,62	1255,46	1331,85	0,38
480,000	20,00	0,0	0,0	515,00	651,40	663,29	0,0	0,38	1086,49	1256,38	1360,75	0,17
480,000	20,00	0,0	0,0	788,00	651,40	663,66	0,0	0,55	1086,21	1257,60	1425,33	0,38
560,000	80,00	0,0	0,0	211,00	652,20	662,73	0,0	0,19	1087,49	1249,06	1136,80	0,0
D 560,000	80,00	0,0	0,0	407,00	652,20	663,11	0,0	0,34	1087,21	1251,13	1198,82	0,38
560,000	80,00	0,0	0,0	515,00	652,20	663,29	0,0	0,42	1087,08	1252,05	1226,84	0,17
560,000	80,00	0,0	0,0	788,00	652,20	663,66	0,0	0,61	1086,80	1254,10	1289,83	0,38
* 1520,000	960,00	0,0	0,0	200,00	668,50	671,98	671,98	6,75	1034,31	1085,17	44,78	0,0
* 1520,000	960,00	0,0	0,0	431,00	668,50	672,88	672,88	7,37	1024,69	1114,50	109,84	0,91
* E 1520,000	960,00	0,0	0,0	489,00	668,50	672,99	672,99	7,70	1024,50	1115,57	119,77	0,11
* 1520,000	960,00	0,0	0,0	747,00	668,50	673,33	673,33	9,32	1023,97	1117,63	150,63	0,33
* 1570,000	50,00	0,0	0,0	200,00	668,50	672,67	672,67	7,32	1012,69	1054,06	45,73	0,0
* 1570,000	50,00	0,0	0,0	431,00	668,50	673,36	673,36	9,12	1011,94	1058,93	77,01	0,69
* 1570,000	50,00	0,0	0,0	489,00	668,50	673,49	673,49	9,48	1011,83	1059,32	83,10	0,13
* 1570,000	50,00	0,0	0,0	747,00	668,50	673,94	673,94	11,09	1011,45	1060,70	104,70	0,45
1620,000	50,00	0,0	0,0	200,00	669,40	673,26	0,0	5,60	1218,33	1287,71	58,79	0,0
F 1620,000	50,00	0,0	0,0	431,00	669,40	674,11	0,0	4,73	1213,13	1305,93	130,81	0,85
1620,000	50,00	0,0	0,0	489,00	669,40	674,28	0,0	4,65	1212,84	1306,98	146,74	0,17
1620,000	50,00	0,0	0,0	747,00	669,40	674,97	0,0	4,45	1211,66	1311,23	213,53	0,68
1717,000	97,00	688,20	673,40	200,00	669,40	679,13	0,0	0,30	1204,60	1336,83	695,22	0,0
G 1717,000	97,00	688,20	673,40	431,00	669,40	689,38	0,0	0,17	1180,72	1402,31	2469,07	10,25
1717,000	97,00	688,20	673,40	489,00	669,40	689,56	0,0	0,19	1179,34	1405,16	2509,44	0,18
1717,000	97,00	688,20	673,40	747,00	669,40	690,10	0,0	0,28	1175,24	1413,63	2633,82	0,54
1767,000	50,00	0,0	0,0	200,00	672,90	679,12	0,0	1,22	1021,56	1126,22	289,01	0,0
1767,000	50,00	0,0	0,0	431,00	672,90	689,38	0,0	0,38	1004,11	1189,41	1776,38	10,26
1767,000	50,00	0,0	0,0	489,00	672,90	689,56	0,0	0,43	1003,81	1190,52	1809,98	0,18
1767,000	50,00	0,0	0,0	747,00	672,90	690,10	0,0	0,62	1002,90	1193,82	1910,93	0,53
1817,000	50,00	0,0	0,0	200,00	673,30	679,13	0,0	1,44	1022,24	1123,78	248,11	0,0
1817,000	50,00	0,0	0,0	431,00	673,30	689,38	0,0	0,40	1004,79	1186,95	1702,94	10,25
H 1817,000	50,00	0,0	0,0	489,00	673,30	689,56	0,0	0,44	1004,49	1188,06	1735,89	0,18
1817,000	50,00	0,0	0,0	747,00	673,30	690,10	0,0	0,64	1003,58	1191,35	1835,21	0,53
* 2520,000	703,00	0,0	0,0	139,00	690,00	693,01	693,01	8,63	1138,76	1145,83	16,11	0,0
* 2520,000	703,00	0,0	0,0	274,00	690,00	694,41	694,41	10,13	1138,17	1146,74	27,04	1,40
* I 2520,000	703,00	0,0	0,0	353,00	690,00	695,77	695,77	6,97	1110,53	1198,45	86,45	1,36
* 2520,000	703,00	0,0	0,0	554,00	690,00	696,25	696,25	7,77	1108,06	1201,76	129,82	0,48

SUMMARY OF ERRORS

CAUTION SECTNO= 2520.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECTNO= 2520.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
 CAUTION SECTNO= 2520.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECTNO= 2520.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10C	2C	0.2C
40.000	0.	-0.9	-0.2	0.4
90.000	50.	-0.7	-0.2	0.4
140.000	100.	-0.8	-0.3	0.5
182.000	142.	-0.6	-0.2	0.5
232.000	192.	-0.9	-0.2	0.4
282.000	242.	-0.7	-0.2	0.4
350.000	310.	-0.6	-0.2	0.4
430.000	390.	-0.7	-0.2	0.4
450.000	410.	-0.7	-0.2	0.5
460.000	420.	-0.6	-0.2	0.4
480.000	440.	-0.6	-0.2	0.4
560.000	520.	-0.6	-0.2	0.4
1520.000	1480.	-1.0	-0.1	0.3
1570.000	1530.	-0.8	-0.1	0.4
1620.000	1580.	-1.0	-0.2	0.7
1717.000	1677.	-10.4	-0.2	0.5
1767.000	1727.	-10.4	-0.2	0.5
1817.000	1777.	-10.4	-0.2	0.5
2520.000	2480.	-2.8	-1.4	0.5
WEIGHTED AVG FOR REACH		-3.0	-0.3	0.4

FHF FOR THE REACH = 0.30 WITH 0.0C OF THE REACH WITHIN 1.0 FEET
 ZONE FOR THE REACH = A 6

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		10C	1C	DIFF.			
1	0.					SEC.	40.000
	100.	648.9	649.6	-0.7	-0.7	005	100.
	50.					SEC.	90.000
	100.					SEC.	140.000
	142.					SEC.	182.000
	192.					SEC.	232.000
2	200.	649.2	650.1	-0.9	-0.8	010	100.
	242.					SEC.	282.000
3	300.	650.3	651.0	-0.7	-0.8	010	100.
	310.					SEC.	350.000
	390.					SEC.	430.000
4	400.	652.7	653.4	-0.7	-0.8	010	100.
	410.					SEC.	450.000
	420.					SEC.	460.000
	440.					SEC.	480.000

GR 686.800 1600.000 687.100 1618.000 0.0 0.0 0.0 n n n n n

	390.					SEC.	430,000	
4	400.	652.7	653.4	-0.7	-0.8	010	100.	
	410.					SEC.	450,000	
	420.					SEC.	460,000	
	440.					SEC.	480,000	
5	500.	662.7	663.3	-0.6	-0.7	005	100.	
	520.					SEC.	560,000	
6	600.	663.1	663.7	-0.6	-0.7	005	100.	
7	700.	664.0	664.6	-0.6	-0.7	005	100.	
8	800.	664.9	665.6	-0.7	-0.7	005	100.	
9	900.	665.9	666.6	-0.7	-0.7	005	100.	
10	1000.	666.9	667.6	-0.8	-0.7	005	100.	
11	1100.	667.8	668.6	-0.8	-0.7	005	100.	
12	1200.	668.8	669.7	-0.9	-0.7	005	100.	
13	1300.	669.8	670.7	-0.9	-0.7	005	100.	
14	1400.	670.7	671.7	-1.0	-0.7	005	100.	
	1480.					SEC.	1520,000	
15	1500.	671.7	672.7	-1.0	-0.8	010	100.	
	1530.					SEC.	1570,000	
	1580.					SEC.	1620,000	
16	1600.	673.9	675.9	-2.0	-0.8	010	94.	
	1677.					SEC.	1717,000	
17	1700.	676.8	683.5	-6.7	-1.2	010	65.	
	1727.					SEC.	1767,000	
	1777.					SEC.	1817,000	
18	1800.	679.4	689.7	-10.3	-1.7	015	6.	
19	1900.	680.6	690.2	-9.6	-2.1	020	5.	
20	2000.	682.5	691.1	-8.5	-2.4	025	5.	
21	2100.	684.5	692.0	-7.5	-2.7	025	5.	
22	2200.	686.5	692.9	-6.4	-2.8	030	5.	
23	2300.	688.5	693.7	-5.3	-2.9	030	4.	
24	2400.	690.4	694.6	-4.2	-3.0	030	4.	
	2480.					SEC.	2520,000	

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
INPUT 20N WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
OF EACH REACH BY INC NO. FOR EXAMPLE 202 16 24
A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

FJ

