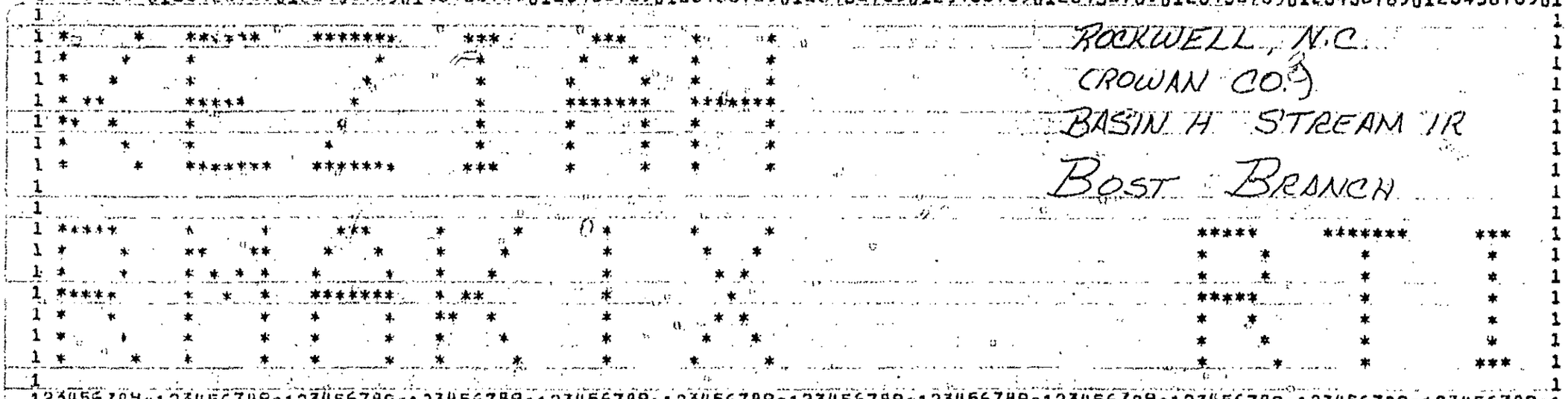

PROGRAMMER=KEZIAH ACCOUNT=RTI.A25.PO3078

JOB TURN-AROUND			JOB PARAMETERS			TIME USED INCLUDES			MISC. JOB VALUES	
	DATE	TIME		SPECIFIED	USED		NO.	EQUIVALENT		
ENTERED	5/27/77	15:50:25.7	TIME	2:00.0	0:13.0	CPU		0:02.4	LINES IN	84
EXECUTED	5/27/77	18:20:45.7	PAGES	100	8	UR EXCPS	476	0:01.9	LINES OUT	306
RETURNED	5/30/77	13:13:42.7	CARDS	0	0	DISK EXCPS	431	0:08.6	MEMORY TIME	6475 K-SEC
JOB ENTERED ON FRIDAY			PLOTS	0	0	TAPE READ-WRITE		0:00.0	PRIORITY	00
						TAPE FILE SEARCH		0:00.0	APPROX. COST	$2.40

JOB CONSOLE LOG

```
N 18.19.20 JOB   13 -- RMAK1X   -- JCL INTERPRETED, TUCC CPU #2
N 18.20.32 JOB   13 -- RMAK1X   -- BEGINNING EXEC - INIT 4 - CLASS
L*18.20.45 JOB   13 ++++++S=068,T=02,J=RMAK1X   18:20:45 KEZIAH
N 18.21.47 JOB   13 END EXECUTION.
```

```
//RMAK1X JOB RTI,A25,P03078,KEZIAH,M=1,T=2,P=100,PRTY=0,D=RTIMG
   ***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=1000,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 RMAK1X   G
         IEF237I 158   ALLOCATED TO STEPLIB
         IEF237I 562   ALLOCATED TO FT03F001
         IEF237I 501   ALLOCATED TO FT01F001
         IEF237I 15A   ALLOCATED TO FT91F001
         IEF237I 15A   ALLOCATED TO FT92F001
         IEF237I 15A   ALLOCATED TO FT93F001
         IEF237I 15A   ALLOCATED TO FT94F001
         IEF237I 15A   ALLOCATED TO FT95F001
         IEF237I 15A   ALLOCATED TO FT96F001
IEF142I - STEP WAS EXECUTED - COND CODE 0000
         IEF285I   RTI.A25.P03078.JCW.LIB.LOAD                    KEPT
         IEF285I   VOL SER NOS= RTI444.
         IEF285I   SYS77147.T181920.RV001.RMAK1X.I91              DELETED
         IEF285I   VOL SER NOS= SPARE7.
         IEF285I   SYS77147.T181920.RV001.RMAK1X.I92              DELETED
         IEF285I   VOL SER NOS= SPARE7.
         IEF285I   SYS77147.T181920.RV001.RMAK1X.I93              DELETED
         IEF285I   VOL SER NOS= SPARE7.
         IEF285I   SYS77147.T181920.RV001.RMAK1X.I94              DELETED
         IEF285I   VOL SER NOS= SPARE7.
         IEF285I   SYS77147.T181920.RV001.RMAK1X.I95              DELETED
         IEF285I   VOL SER NOS= SPARE7.
         IEF285I   SYS77147.T181920.RV001.RMAK1X.I96              DELETED
         IEF285I   VOL SER NOS= SPARE7.
G       CORE=500K TIME---0:11.3    UR---424  RD/WR---0:00.0    RC-----0
G       USED=242K  CPU---0:02.4  DISK---402  REWND---0:00.0
G                  I/O---0:08.9  TAPE-----0  FL SR---0:00.0

RMAK1X   TIME---0:11.3
```

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

C
T1      ROCKWELL-ROWAN COUNTY   BASIN H   STREAM 1R   UNNAMED
T2      FLOODPLAIN  STUDY  AT  ROWAN & DAVIDSON  COUNTIES  M-G JOB  NO.  6918
T3      10 YEAR FLOOD WATER SURFACE PROFILE

J1  ICHECK     INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ
      -10.      2.       0.       0.  0.012000     0.0      0.0      0     678.200   0.0
J2  NPROF      IPLOT    PRFVS    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
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
```

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

T1      ROCKWELL-ROWAN COUNTY   BASIN H   STREAM 1R     UNNAMED
T2      FLOODPLAIN  STUDY  AT  ROWAN & DAVIDSON  COUNTIES  M-G JOB  NO.  6918
T3      100 YEAR FLOOD WATER SURFACE PROFILE

J1  ICHECK     INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ
      -10.       4.       0.       0.  0.012000      0.0      0.0       0.  681.200    0.0

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH       FN    ALLDC     IBW    CHNIM    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	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
A	1600.000	1600.00	0.0	0.0	384.00	673.20	675.50	0.0	2.93	1057.23	1174.56	131.75	0.0
	1600.000	1600.00	0.0	0.0	819.00	673.20	676.19	0.0	3.74	1055.29	1194.23	221.35	0.70
*B	3150.000	1550.00	0.0	0.0	353.00	698.40	702.93	702.93	6.89	1075.82	1139.96	72.72	0.0
	3150.000	1550.00	0.0	0.0	753.00	698.40	703.77	703.66	8.35	1071.01	1141.31	128.99	0.84
*	3200.000	50.00	0.0	0.0	353.00	703.40	707.32	707.32	8.01	1360.33	1419.03	62.49	0.0
*	3200.000	50.00	0.0	0.0	753.00	703.40	708.01	708.01	9.35	1356.38	1420.49	105.00	0.69
	3286.000	86.00	722.40	707.40	353.00	703.40	722.91	0.0	0.18	1260.30	1486.39	2091.08	0.0
	3286.000	86.00	722.40	707.40	753.00	703.40	724.02	0.0	0.34	1246.84	1505.38	2361.06	1.11
C	3336.000	50.00	0.0	0.0	353.00	708.40	722.91	0.0	0.47	1018.80	1173.21	1151.95	0.0
	3336.000	50.00	0.0	0.0	753.00	708.40	724.02	0.0	0.87	1012.45	1177.19	1329.30	1.11
*D	5575.000	2239.00	0.0	0.0	168.00	753.40	756.44	756.44	8.21	1317.59	1328.35	20.62	0.0
*D	5575.000	2239.00	0.0	0.0	394.00	753.40	758.32	758.32	8.61	1306.81	1345.20	58.43	1.87
*	5600.000	25.00	0.0	0.0	168.00	753.60	757.69	757.69	8.41	1479.59	1497.74	26.66	0.0
	5600.000	25.00	0.0	0.0	394.00	753.60	759.11	0.0	7.60	147' 36	1525.92	77.23	1.43
	5663.000	63.00	763.90	756.10	168.00	753.60	764.53	0.0	0.25	1391.34	1663.28	924.46	0.0
	5663.000	63.00	763.90	756.10	394.00	753.60	765.03	0.0	0.50	1383.40	1684.49	1067.03	0.50
E	5688.000	25.00	0.0	0.0	168.00	753.80	764.53	0.0	0.37	1226.52	1489.70	879.76	0.0
	5688.000	25.00	0.0	0.0	394.00	753.80	765.03	0.0	0.75	1218.62	1506.33	1016.28	0.50
F	5838.000	150.00	0.0	0.0	155.00	756.00	764.53	0.0	0.93	1300.63	1398.71	262.25	- 0.0
	5838.000	150.00	0.0	0.0	367.00	756.00	765.03	0.0	1.78	1300.07	1418.78	316.23	0.50

```
SUMMARY OF ERRORS

CAUTION  SECNO= 3150.000  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO= 3150.000  PROFILE= 1  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO= 3200.000  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO= 3200.000  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO= 3200.000  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL
```

```
CAUTION  SECNO= 5200.000  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO= 5200.000  PROFILE= 2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO= 5200.000  PROFILE= 2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO= 5575.000  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO= 5575.000  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO= 5575.000  PROFILE= 1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO= 5575.000  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO= 5575.000  PROFILE= 2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO= 5575.000  PROFILE= 2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO= 5600.000  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO= 5600.000  PROFILE= 1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO= 5600.000  PROFILE= 1  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
1600.000	0.	675.5	676.2	0.0
3150.000	1550.	700.0	700.8	*****
3200.000	1600.	*****	*****	*****
3286.000	1686.	20.0	21.1	0.0
3336.000	1736.	722.9	724.0	*****
5575.000	3975.	403.4	405.3	350.4
5600.000	4000.	*****	*****	*****
5663.000	4063.	42.1	42.6	-15.0
5688.000	4088.	764.4	764.8	*****
5838.000	4238.	*****	*****	*****
WEIGHTED AVG FOR REACH		****	****	****

FHF FOR THE REACH = 005 WITH 0.0C OF THE REACH WITHIN 0.5 FEET
ZONE FOR THE REACH = A 1

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA 10C	1C	DIFF.	WTD. AVG.	FHF	PERCENT WITHIN
	0.				SEC.	1600.000	
1	100.	676.4	0.1	676.3	676.3	005	100.
2	200.	678.2	0.3	677.9	677.1	005	0.
3	300.	679.9	0.5	679.4	677.9	005	33.
4	400.	681.7	0.7	681.0	678.7	005	0.
5	500.	683.5	0.9	682.6	679.4	005	20.
6	600.	685.2	1.0	684.2	680.2	005	0.
7	700.	687.0	1.2	685.8	681.0	005	14.
8	800.	688.8	1.4	687.4	681.8	005	0.
9	900.	690.5	1.6	688.9	682.6	005	11.
10	1000.	692.3	1.8	690.5	683.4	005	0.
11	1100.	694.1	2.0	692.1	684.2	005	9.
12	1200.	695.9	2.2	693.7	685.0	005	0.
13	1300.	697.6	2.4	695.3	685.8	005	8.
14	1400.	699.4	2.6	696.8	686.6	005	0.
15	1500.	701.2	2.7	698.4	687.3	005	7.
	1550.				SEC.	3150.000	
16	1600.	704.7	1576.4	-871.7	589.9	005	0.
	1600.				SEC.	3200.000	
	1686.				SEC.	3286.000	
17	1700.	722.9	604.5	118.4	562.2	005	0.
	1736.				SEC.	3336.000	
18	1800.	723.4	258.1	465.3	556.8	005	0.

19	1900.	724.6	18.0	706.6	564.7	005	0.
20	2000.	726.1	33.7	692.4	571.1	005	0.
21	2100.	727.6	49.5	678.1	576.2	005	0.
22	2200.	729.1	65.3	663.8	580.1	005	0.
23	2300.	730.6	81.0	649.6	583.2	005	0.
24	2400.	732.1	96.8	635.3	585.3	005	0.
25	2500.	733.6	112.6	621.0	586.8	005	0.
26	2600.	735.1	128.3	606.8	587.5	005	0.
27	2700.	736.6	144.1	592.5	587.7	005	0.
28	2800.	738.1	159.9	578.2	587.4	005	0.
29	2900.	739.6	175.6	564.0	586.6	005	0.
30	3000.	741.1	191.4	549.7	585.3	005	0.
31	3100.	742.6	207.2	535.4	583.7	005	0.
32	3200.	744.1	222.9	521.2	581.8	005	0.
33	3300.	745.6	238.7	506.9	579.5	005	0.
34	3400.	747.1	254.5	492.6	576.9	005	0.
35	3500.	748.6	270.2	478.4	574.1	005	0.
36	3600.	750.1	286.0	464.1	571.1	005	0.
37	3700.	751.6	301.8	449.8	567.8	005	0.
38	3800.	753.1	317.5	435.5	564.3	005	3.
39	3900.	754.6	333.3	421.3	560.6	005	0.
	3975.					SEC. 5575.000	
40	4000.	756.5	880.1	-123.6	543.5	005	0.
	4000.					SEC. 5600.000	
	4063.					SEC. 5663.000	
	4088.					SEC. 5688.000	
41	4100.	764.5	133.6	630.9	545.7	005	0.
42	4200.	764.5	1379.0	-614.5	518.1	005	0.
	4238.					SEC. 5838.000	

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 1 42
A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.