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PROFILE  
DRAFT BRANCH

PROGRAMMER=MAK

ACCOUNT=RTI.A25.P0307A

JOB TURN-AROUND			JOB PARAMETERS			TIME USED INCLUDES			MISC. JOB VALUES		
DATE	TIME		SPECIFIED	USED		NO.	EQUIVALENT				
ENTERED	1/19/78	11:20:35.9	TIME	2:00.0	0:27.5	CPU	0:09.2	LINES IN	172		
EXECUTED	1/19/78	11:22:08.6	PAGES	100	35	UR EXCPS	2119	0:08.5	LINES OUT	1863	
RETURNED	1/23/78	9:56:25.8	CARDS	0	0	DISK EXCPS	489	0:09.8	MEMORY TIME	13730 K-SEC	
JOB ENTERED ON THURSDAY			PLOTS	0	0	TAPE READ-WRITE		0:00.0	PRIORITY	01	
						TAPE FILE SEARCH		0:00.0	APPROX. COST	\$8.72	

JOB CONSOLE LOG

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@ 11.22.04 JOB 65 -- RDRAFT -- JCL INTERPRETED, TUCC CPU #2
@ 11.22.08 JOB 65 -- RDRAFT -- BEGINNING EXEC - INIT 4 - CLASS
@ 11.22.08 JOB 65 ++++S=255,T=02,J=RDRAFT 11:22:08 MAK
@ 11.23.02 JOB 65 END EXECUTION.

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

C  
 T1 ROWAN COUNTY BASIN 0 STRM 1 DRAFT BRANCH  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IND	HINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR
	-1.	2.	0.	0.	0.004300	0.0	0.0	0.	653.000	0.0
J2	MPROF	IPLOT	PRFVS	YSECV	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	5.000	1600.000	2710.000	3190.000	4940.000	3190.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	300.000	12.000	1778.000	1800.000	800.000	800.000	800.000	800.000	0.0	0.0
GR	677.100	1000.000	499.000	1300.000	667.400	1600.000	660.900	1700.000	661.300	1778.000
GR	653.000	1786.000	452.200	1789.000	653.100	1797.000	660.300	1800.000	660.100	2100.000
GR	659.800	2400.000	665.000	2500.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1295.000	2200.000	2610.000	4000.000	2610.000	0.0	0.0	0.0	0.0
X1	2400.000	17.000	335.000	355.000	1600.000	1600.000	1600.000	0.0	0.0	0.0
GR	669.200	0.0	666.700	70.000	663.200	102.000	663.600	165.000	663.500	290.000
GR	664.200	335.000	659.400	339.000	659.600	345.000	659.300	351.000	664.200	355.000
GR	662.600	435.000	662.600	510.000	662.500	555.000	662.600	590.000	665.100	625.000
GR	669.200	640.000	673.800	655.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	4225.000	34.000	362.000	395.000	1825.000	1825.000	1825.000	0.0	0.0	0.0
GR	686.300	0.0	679.500	71.000	680.300	82.000	678.700	87.000	672.700	207.000
GR	671.800	237.000	672.000	242.000	667.500	286.000	667.000	317.000	667.300	347.000
GR	667.200	357.000	666.300	362.000	662.300	367.000	662.200	372.000	662.500	376.000
GR	667.500	385.000	667.800	390.000	667.000	417.000	666.800	437.000	667.500	465.000
GR	667.100	522.000	666.700	657.000	667.400	672.000	666.700	692.000	667.700	707.000
GR	666.700	717.000	667.000	847.000	667.300	867.000	667.900	877.000	667.200	882.000
GR	667.500	885.000	670.200	889.000	674.000	901.000	678.000	925.000	0.0	0.0
X1	5900.000	23.000	478.000	503.000	1675.000	1675.000	1675.000	0.0	0.0	0.0



QT 5.000 895.000 1590.000 1880.000 2800.000 1880.000 0.0 0.0 0.0 0.0

X1 14300.000 18.000 210.000 225.000 1500.000 1500.000 1500.000 0.0 0.0 0.0  
 GR 710.900 0.0 700.100 65.000 691.600 100.000 689.900 180.000 691.000 210.000  
 GR 688.400 215.000 687.900 219.000 687.800 223.000 691.000 225.000 689.700 255.000  
 GR 689.500 275.000 689.900 295.000 689.800 375.000 691.000 395.000 691.900 440.000  
 GR 692.600 445.000 695.100 520.000 702.600 570.000 0.0 0.0 0.0 0.0

X1 15500.000 8.000 1590.000 1602.000 1200.000 1200.000 1200.000 0.0 0.0 0.0  
 GR 711.700 1000.000 705.300 1200.000 696.000 1590.000 692.200 1593.000 692.200 1600.000  
 GR 696.500 1602.000 695.700 1780.000 711.700 1805.000 0.0 0.0 0.0 0.0

X1 15950.000 20.000 543.000 556.000 450.000 450.000 450.000 0.0 0.0 0.0  
 GR 711.800 0.0 701.500 248.000 699.100 344.000 697.800 376.000 697.400 402.000  
 GR 696.900 430.000 697.600 468.000 696.800 484.000 696.800 508.000 698.200 526.000  
 GR 698.900 543.000 694.900 546.000 693.900 550.000 694.100 554.000 698.900 556.000  
 GR 697.200 593.000 697.500 633.000 701.100 641.000 707.100 651.000 709.700 661.000  
 QT 5.000 525.000 470.000 1190.000 1720.000 1190.000 0.0 0.0 0.0 0.0

X1 17720.000 16.000 288.000 308.000 1770.000 1770.000 1770.000 0.0 0.0 0.0  
 GR 713.900 0.0 707.000 100.000 704.200 130.000 701.600 185.000 701.800 210.000  
 GR 703.400 288.000 700.600 295.000 700.300 305.000 702.900 398.000 702.800 340.000  
 GR 704.300 359.000 704.200 370.000 706.600 425.000 709.600 435.000 713.100 495.000  
 GR 717.300 530.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

X1 17800.000 13.000 388.000 394.000 30.000 30.000 80.000 0.0 0.0 0.0  
 GR 719.800 0.0 716.000 70.000 710.200 205.000 706.800 370.000 702.300 388.000  
 GR 700.200 388.900 699.300 391.000 700.200 393.100 702.300 394.000 706.900 412.000  
 GR 707.000 430.000 709.400 580.000 710.800 610.000 0.0 0.0 0.0 0.0  
 SB 0.900 1.500 2.500 0.0 6.000 0.010 26.300 0.0 0.0 0.0

RDN0 HEAL RD MXLCEL 705.3 RDELV 706.8

X1 17842.000 0.0 0.0 0.0 42.000 42.000 42.000 0.0 0.0 0.0  
 X2 0.0 0.0 1.000 705.300 0.0 0.0 0.0 0.0 0.0 0.0  
 BT 13.000 0.0 719.800 0.0 70.000 716.000 0.0 205.000 710.200 0.0  
 BT 370.000 706.900 0.0 388.000 706.800 702.300 388.900 706.800 704.400 391.000  
 BT 706.800 705.300 393.100 706.800 704.400 394.000 706.800 702.300 412.000 706.900  
 BT 0.0 430.000 707.000 0.0 580.000 709.400 0.0 610.000 710.800 0.0

X1 17922.000 20.000 354.000 362.000 80.000 80.000 80.000 0.0 0.0 0.0  
 GR 718.400 0.0 715.900 50.000 714.400 63.000 715.200 90.000 704.400 230.000  
 GR 705.800 234.000 706.300 241.000 706.000 254.000 703.300 260.000 702.600 293.000  
 GR 703.100 338.000 703.700 354.000 701.200 356.000 701.300 361.000 703.900 362.000  
 GR 702.700 433.000 703.900 508.000 706.900 543.000 714.700 588.000 717.900 603.000  
 QT 5.000 427.000 798.000 987.000 1450.000 987.000 0.0 0.0 0.0 0.0

X1 20250.000 11.000 1256.000 1268.000 2328.000 2328.000 2328.000 0.0 0.0 0.0  
 GR 727.600 1000.000 712.300 1100.000 711.200 1200.000 712.200 1256.000 709.000 1257.000  
 GR 708.800 1260.000 709.900 1265.000 712.400 1268.000 713.000 1300.000 716.000 1335.000  
 GR 727.600 1366.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  
 QT 5.000 357.000 673.000 838.000 1240.000 638.000 0.0 0.0 0.0 0.0

X1 22100.000 10.000 1197.000 1215.000 1850.000 1850.000 1850.000 0.0 -0.300 0.0  
 GR 749.400 1000.000 738.300 1100.000 734.800 1197.000 731.000 1205.000 730.600 1207.000  
 GR 730.600 1209.000 735.500 1215.000 736.700 1262.000 741.000 1300.000 749.400 1358.000



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

T1 ROWAN COUNTY BASIN D STRM 1 DRAFT BRANCH  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.004300	0.0	0.0	0.	656.000	0.0
J2	NPROF	IPLOT	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 800.000

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
800.00	9.68	661.88	0.0	656.00	662.01	0.13	0.0	0.0	661.30
2710.	65.	746.	1900.	68.	155.	1126.	0.	0.	660.30
0.0	0.95	4.81	1.69	0.085	0.060	0.085	0.0	652.20	1684.89
0.004304	800.	800.	800.	0	0	20	0.0	755.16	2440.04

\*SECNO 2400.000

2400.00	6.99	665.99	0.0	0.0	666.03	0.04	4.01	0.01	664.20
2200.	723.	311.	1166.	601.	116.	814.	53.	24.	664.20
0.29	1.20	2.69	1.43	0.085	0.060	0.085	0.060	659.00	76.47
0.001504	1600.	1600.	1600.	4	0	0	0.0	551.80	628.27

\*SECNO 4225.000

4225.00	7.06	669.26	0.0	0.0	669.32	0.06	3.29	0.01	666.30
2200.	223.	420.	1557.	174.	126.	1114.	115.	49.	667.50
0.59	1.28	3.34	1.40	0.085	0.060	0.085	0.060	662.20	268.77
0.002186	1825.	1825.	1825.	3	0	0	0.0	618.85	887.61

\*SECNO 5900.000

5900.00	9.63	673.13	0.0	0.0	673.25	0.12	3.91	0.02	670.70
2200.	1206.	759.	235.	709.	185.	144.	162.	67.	671.00
0.76	1.70	4.09	1.63	0.085	0.060	0.085	0.060	663.50	211.13
0.002501	1675.	1675.	1675.	3	0	0	0.0	348.21	559.34

\*SECNO 7650.000

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

T1 ROWAN COUNTY BASIN 0 STRM 1 DRAFT BRANCH  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INC	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.004300	0.0	0.0	0.	660.000	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= 0.100 CEHV= 0.300

\*SECNO 800.000

SECNO	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	LOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	YNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
800.00	9.90	662.10	0.0	660.00	662.23	0.13	0.0	0.0	661.30
3190.	99.	785.	2306.	89.	160.	1268.	0.	0.	660.30
0.0	1.11	4.91	1.82	0.085	0.060	0.085	0.0	652.20	1681.50
0.004309	800.	800.	800.	0	0	4	0.0	762.78	2444.28

\*SECNO 2400.000

2400.00	7.28	666.28	0.0	0.0	666.33	0.05	4.09	0.01	664.20
2610.	889.	343.	1377.	676.	121.	893.	59.	24.	664.20
0.27	1.32	2.83	1.54	0.085	0.060	0.085	0.060	659.00	73.83
0.001555	1600.	1600.	1600.	4	0	0	0.0	555.49	629.32

\*SECNO 4225.000

4225.00	7.36	669.56	0.0	0.0	669.62	0.06	3.29	0.00	666.30
2610.	276.	451.	1883.	202.	133.	1263.	128.	49.	667.50
0.55	1.37	3.40	1.49	0.085	0.060	0.085	0.060	662.20	265.87
0.002111	1825.	1825.	1825.	3	0	0	0.0	622.18	888.05

\*SECNO 5900.000

5900.00	9.94	673.44	0.0	0.0	673.57	0.13	3.93	0.02	670.70
2610.	1485.	833.	292.	793.	193.	162.	181.	68.	671.00
0.73	1.87	4.31	1.80	0.085	0.060	0.085	0.060	663.50	210.60
0.002625	1675.	1675.	1675.	3	0	0	0.0	348.89	559.49

\*SECNO 7650.000

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

T1 ROWAN COUNTY BASIN D STRM 1 DRAFT BRANCH  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	5.	0.	0.	0.004300	0.0	0.0	0.	662.000	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

\*PPOF 4

CCHV= 0.100 CEHV= 0.300  
 \*SECNO 800.000

SECNO	DEPTH	WSEL	CRJWS	WSELK	EG	HV	HL	DLOSS	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
800.00	10.50	662.78	0.0	662.00	662.92	0.14	0.0	0.0	661.30
4940.	244.	919.	3777.	158.	175.	1708.	0.	0.	660.30
0.0	1.54	5.25	2.21	0.085	0.060	0.085	0.0	652.20	1671.10
0.004383	800.	800.	800.	0	0	4	0.0	786.19	2457.28

\*SECNO 2400.000

2400.00	8.14	667.14	0.0	0.0	667.20	0.06	4.27	0.01	664.20
4000.	1471.	442.	2087.	906.	139.	1131.	77.	25.	664.20
0.23	1.62	3.19	1.85	0.085	0.060	0.085	0.060	659.00	57.59
0.001654	1600.	1600.	1600.	3	0	0	0.0	574.89	632.48

\*SECNO 4225.000

4225.00	8.23	670.43	0.0	0.0	670.50	0.07	3.29	0.00	666.30
4000.	454.	552.	2985.	289.	153.	1701.	168.	50.	667.50
0.49	1.60	3.61	1.75	0.085	0.060	0.085	0.060	662.20	257.35
0.001976	1825.	1825.	1825.	3	0	0	0.0	632.37	889.73

\*SECNO 5900.000

5900.00	10.86	674.36	0.0	0.0	674.52	0.16	4.00	0.03	670.70
4000.	2449.	1063.	489.	1039.	216.	214.	237.	69.	671.00
0.64	2.36	4.91	2.29	0.085	0.060	0.085	0.060	663.50	209.07
0.002935	1675.	1675.	1675.	3	0	0	0.0	350.86	559.93

\*SECNO 7650.000



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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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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	ELLU	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
A 800.000	800.00	0.0	0.0	1600.00	652.20	661.27	0.0	4.53	1694.30	2428.28	894.28	0.0
800.000	800.00	0.0	0.0	2710.00	652.20	661.88	0.0	4.81	1684.89	2440.04	1349.74	0.61
800.000	800.00	0.0	0.0	3190.00	652.20	662.10	0.0	4.91	1681.50	2444.28	1516.86	0.22
800.000	800.00	0.0	0.0	4940.00	652.20	662.78	0.0	5.25	1671.10	2457.29	2040.59	0.68
B 2400.000	1600.00	0.0	0.0	1295.00	659.00	665.23	0.0	2.35	83.49	625.46	1110.15	0.0
2400.000	1600.00	0.0	0.0	2200.00	659.00	665.99	0.0	2.69	76.47	628.27	1530.12	0.76
2400.000	1600.00	0.0	0.0	2610.00	659.00	666.28	0.0	2.83	73.83	629.32	1689.52	0.29
2400.000	1600.00	0.0	0.0	4000.00	659.00	667.14	0.0	3.19	57.59	632.48	2175.22	0.86
C 4225.000	1825.00	0.0	0.0	1295.00	662.20	668.51	0.0	3.21	276.10	886.50	952.04	0.0
4225.000	1825.00	0.0	0.0	2200.00	662.20	669.26	0.0	3.34	268.77	887.61	1413.40	0.75
4225.000	1825.00	0.0	0.0	2610.00	662.20	669.56	0.0	3.40	265.87	888.05	1597.14	0.30
4225.000	1825.00	0.0	0.0	4000.00	662.20	670.43	0.0	3.61	257.35	889.73	2143.29	0.87
D 5900.000	1675.00	0.0	0.0	1295.00	663.50	672.30	0.0	3.48	212.50	558.95	752.14	0.0
5900.000	1675.00	0.0	0.0	2200.00	663.50	673.13	0.0	4.09	211.13	559.34	1037.96	0.83
5900.000	1675.00	0.0	0.0	2610.00	663.50	673.44	0.0	4.31	210.60	559.49	1147.88	0.31
5900.000	1675.00	0.0	0.0	4000.00	663.50	674.36	0.0	4.91	209.07	559.93	1469.50	0.92
E 7650.000	1750.00	0.0	0.0	1050.00	669.00	676.12	0.0	3.32	64.57	445.98	658.13	0.0
7650.000	1750.00	0.0	0.0	1830.00	669.00	677.11	0.0	3.47	51.10	469.54	1054.67	0.99
7650.000	1750.00	0.0	0.0	2160.00	669.00	677.46	0.0	3.53	48.12	477.93	1204.19	0.35
7650.000	1750.00	0.0	0.0	3150.00	669.00	678.43	0.0	3.64	42.87	501.03	1634.89	0.97
7720.000	70.00	0.0	0.0	1050.00	671.10	676.15	0.0	5.76	225.94	306.65	246.94	0.0
7720.000	70.00	0.0	0.0	1830.00	671.10	676.87	0.0	8.30	221.40	311.65	309.12	0.72
7720.000	70.00	0.0	0.0	2160.00	671.10	677.09	0.0	9.30	220.07	313.12	328.75	0.22
7720.000	70.00	0.0	0.0	3150.00	671.10	677.64	0.0	11.92	216.60	316.95	382.50	0.55
* 7780.000	60.00	684.20	681.70	1050.00	671.10	676.26	0.0	5.59	225.25	307.40	255.89	0.0
* 7780.000	60.00	684.20	681.70	1830.00	671.10	678.09	0.0	6.29	213.84	319.98	428.12	1.83
* 7780.000	60.00	684.20	681.70	2160.00	671.10	678.91	0.0	6.29	208.75	325.60	519.20	0.82
* 7780.000	60.00	684.20	681.70	3150.00	671.10	681.14	0.0	6.20	194.82	340.95	812.74	2.23
F 7850.000	70.00	0.0	0.0	1050.00	668.30	676.83	0.0	2.39	83.70	533.35	908.12	0.0
7850.000	70.00	0.0	0.0	1830.00	668.30	678.64	0.0	1.83	65.58	550.22	1764.43	1.82
7850.000	70.00	0.0	0.0	2160.00	668.30	679.42	0.0	1.70	61.33	554.12	2145.52	0.78
7850.000	70.00	0.0	0.0	3150.00	668.30	681.58	0.0	1.51	48.08	561.18	3227.55	2.15

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
9600.000	1750.00	n.0	0.0	1050.00	675.70	681.09	0.0	4.18	483.97	951.93	573.09	0.0
9600.000	1750.00	n.0	0.0	1830.00	675.70	681.19	0.0	6.71	482.67	952.34	613.69	0.10
9600.000	1750.00	n.0	0.0	2160.00	675.70	681.39	0.0	6.68	479.76	953.27	705.22	0.19
9600.000	1750.00	n.0	0.0	3150.00	675.70	682.64	0.0	4.49	448.24	959.25	1317.93	1.25
* 98.000	200.00	n.0	0.0	975.00	678.00	682.93	682.93	6.60	494.60	949.11	356.02	0.0
98.000	200.00	n.0	0.0	1720.00	678.00	683.64	0.0	5.49	480.32	953.09	687.40	0.71
98.000	200.00	n.0	0.0	2040.00	678.00	683.80	0.0	5.76	478.04	953.82	759.35	0.15
98.000	200.00	n.0	0.0	3040.00	678.00	684.00	683.61	7.38	474.92	954.80	857.65	0.21
100.000	200.00	n.0	0.0	975.00	680.30	685.49	0.0	4.87	487.23	950.88	471.66	0.0
100.000	200.00	n.0	0.0	1720.00	680.30	685.79	0.0	6.27	482.58	952.37	616.44	0.31
100.000	200.00	n.0	0.0	2040.00	680.30	685.97	0.0	6.31	479.76	953.27	705.08	0.18
100.000	200.00	n.0	0.0	3040.00	680.30	686.56	0.0	6.21	457.40	956.05	984.52	0.59
10200.000	200.00	n.0	0.0	975.00	682.70	686.61	0.0	2.58	120.04	717.67	758.30	0.0
10200.000	200.00	n.0	0.0	1720.00	682.70	687.17	0.0	2.90	123.12	757.13	1094.58	0.55
10200.000	200.00	n.0	0.0	2040.00	682.70	687.35	0.0	3.05	121.50	770.04	1209.87	0.18
10200.000	200.00	n.0	0.0	3040.00	682.70	687.85	0.0	3.38	115.90	795.19	1551.71	0.51
12800.000	2600.00	n.0	0.0	975.00	684.90	689.86	0.0	1.56	146.20	614.46	1116.47	0.0
12800.000	2600.00	n.0	0.0	1720.00	684.90	690.76	0.0	1.90	131.78	637.97	1555.54	0.90
12800.000	2600.00	n.0	0.0	2040.00	684.90	691.09	0.0	2.01	126.60	646.42	1721.72	0.32
12800.000	2600.00	n.0	0.0	3040.00	684.90	691.93	0.0	2.33	113.12	668.39	2174.39	0.84
14300.000	1500.00	n.0	0.0	895.00	687.80	691.82	0.0	3.19	99.10	435.89	505.73	0.0
14300.000	1500.00	n.0	0.0	1590.00	687.80	692.74	0.0	3.24	95.30	449.24	824.95	0.92
14300.000	1500.00	n.0	0.0	1880.00	687.80	693.07	0.0	3.30	93.96	459.03	942.16	0.33
14300.000	1500.00	n.0	0.0	2800.00	687.80	693.96	0.0	3.50	90.29	485.77	1281.21	0.89
15500.000	1200.00	n.0	0.0	895.00	692.20	697.80	697.12	4.21	1514.14	1783.30	433.62	0.0
15500.000	1200.00	n.0	0.0	1590.00	692.20	698.37	697.47	5.23	1490.51	1784.18	592.14	0.57
15500.000	1200.00	n.0	0.0	1880.00	692.20	698.58	697.67	5.52	1481.93	1784.50	653.16	0.21
15500.000	1200.00	n.0	0.0	2800.00	692.20	699.18	698.07	6.18	1457.09	1785.42	839.97	0.60
15950.000	450.00	n.0	0.0	895.00	693.90	699.49	0.0	2.62	328.02	637.44	501.42	0.0
15950.000	450.00	n.0	0.0	1590.00	693.90	700.33	0.0	3.01	294.53	639.30	865.26	0.84
15950.000	450.00	n.0	0.0	1880.00	693.90	700.62	0.0	3.15	283.20	639.93	964.64	0.29
15950.000	450.00	n.0	0.0	2800.00	693.90	701.38	0.0	3.53	252.93	641.46	1246.73	0.77
17720.000	1770.00	n.0	0.0	525.00	700.30	704.13	0.0	2.58	131.64	356.75	357.58	0.0
17720.000	1770.00	n.0	0.0	970.00	700.30	704.95	0.0	2.92	121.92	387.27	564.98	0.82
17720.000	1770.00	n.0	0.0	1190.00	700.30	705.28	0.0	3.07	118.46	394.69	652.65	0.33
17720.000	1770.00	n.0	0.0	1720.00	700.30	706.03	0.0	3.28	110.31	412.12	872.40	0.76
* 17800.000	80.00	n.0	0.0	525.00	699.30	705.57	705.57	10.55	374.92	406.79	74.52	0.0
* 17800.000	80.00	n.0	0.0	970.00	699.30	707.39	707.39	10.17	341.20	454.57	165.98	1.82
* 17800.000	80.00	n.0	0.0	1190.00	699.30	707.83	707.83	10.18	320.05	481.81	225.93	0.44
* 17800.000	80.00	n.0	0.0	1720.00	699.30	708.32	708.32	11.47	296.14	512.61	319.10	0.49
LIMIT OF DETAILED STUDY												
* 17842.000	42.00	706.80	705.30	525.00	699.30	707.70	0.0	4.78	326.35	473.70	205.88	0.0
17842.000	42.00	706.80	705.30	970.00	699.30	708.43	0.0	6.10	290.59	519.77	344.61	0.73
17842.000	42.00	706.80	705.30	1190.00	699.30	708.67	0.0	6.61	279.00	534.69	402.50	0.24
17842.000	42.00	706.80	705.30	1720.00	699.30	709.07	0.0	7.80	259.88	559.32	511.88	0.40

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
17922.000	80.00	0.0	0.0	525.00	701.20	707.91	0.0	0.54	184.55	548.80	1422.05	0.0
17922.000	80.00	0.0	0.0	970.00	701.20	708.71	0.0	0.81	174.11	553.45	1721.39	0.80
17922.000	80.00	0.0	0.0	1190.00	701.20	708.98	0.0	0.93	170.64	554.99	1823.64	0.27
17922.000	80.00	0.0	0.0	1720.00	701.20	709.47	0.0	1.21	164.33	557.80	2012.92	0.49
20250.000	2328.00	0.0	0.0	427.00	708.80	712.41	712.41	6.24	1099.29	1268.46	139.78	0.0
20250.000	2328.00	0.0	0.0	798.00	708.80	712.70	712.70	8.30	1097.40	1283.88	191.22	0.29
20250.000	2328.00	0.0	0.0	987.00	708.80	712.86	712.86	8.73	1096.36	1292.35	221.61	0.16
20250.000	2328.00	0.0	0.0	1450.00	708.80	713.16	713.16	9.76	1094.38	1301.85	283.11	0.30
22100.000	1850.00	0.0	0.0	357.00	730.30	735.90	0.0	4.72	1158.23	1242.36	103.94	0.0
22100.000	1850.00	0.0	0.0	673.00	730.30	737.02	0.0	5.05	1127.06	1267.51	234.97	1.12
22100.000	1850.00	0.0	0.0	838.00	730.30	737.38	0.0	5.29	1117.11	1270.68	287.75	0.36
22100.000	1850.00	0.0	0.0	1240.00	730.30	738.10	0.0	5.69	1099.10	1277.02	497.31	0.72
22450.000	50.00	0.0	0.0	357.00	730.40	736.31	0.0	4.06	1149.53	1254.67	133.67	0.0
22450.000	50.00	0.0	0.0	673.00	730.40	737.36	0.0	4.51	1120.55	1269.58	268.97	1.05
22450.000	50.00	0.0	0.0	838.00	730.40	737.71	0.0	4.76	1110.66	1272.74	324.49	0.36
22450.000	50.00	0.0	0.0	1240.00	730.40	738.42	0.0	5.15	1097.06	1279.02	447.93	0.71
22150.000	50.00	0.0	0.0	357.00	730.50	736.66	0.0	5.19	1139.70	1259.71	147.44	0.0
22150.000	50.00	0.0	0.0	673.00	730.50	737.70	0.0	4.87	1110.82	1300.04	302.45	1.04
22150.000	50.00	0.0	0.0	838.00	730.50	738.07	0.0	4.88	1100.65	1310.84	375.77	0.37
22150.000	50.00	0.0	0.0	1240.00	730.50	738.78	0.0	4.82	1092.01	1331.67	535.80	0.71
22175.000	25.00	734.20	734.50	357.00	730.50	737.77	0.0	2.48	1108.88	1302.10	315.87	0.0
22175.000	25.00	734.20	734.50	673.00	730.50	738.39	0.0	3.23	1095.32	1320.43	446.97	0.62
22175.000	25.00	734.20	734.50	838.00	730.50	738.65	0.0	3.48	1093.06	1328.09	506.95	0.26
22175.000	25.00	734.20	734.50	1240.00	730.50	739.22	0.0	3.88	1088.16	1344.73	645.98	0.57
22225.000	50.00	0.0	0.0	357.00	730.60	737.82	0.0	2.12	1113.32	1271.89	309.13	0.0
22225.000	50.00	0.0	0.0	673.00	730.60	738.47	0.0	3.00	1098.50	1277.60	419.03	0.65
22225.000	50.00	0.0	0.0	838.00	730.60	738.73	0.0	3.33	1096.09	1279.98	467.73	0.27
22225.000	50.00	0.0	0.0	1240.00	730.60	739.31	0.0	3.94	1090.91	1285.06	576.45	0.58
22625.000	50.00	0.0	0.0	357.00	730.70	737.87	0.0	2.16	1114.64	1271.47	301.59	0.0
22625.000	50.00	0.0	0.0	673.00	730.70	738.55	0.0	3.02	1098.62	1277.49	416.65	0.68
22625.000	50.00	0.0	0.0	838.00	730.70	738.83	0.0	3.33	1096.09	1279.97	467.59	0.28
22625.000	50.00	0.0	0.0	1240.00	730.70	739.43	0.0	3.90	1090.69	1285.27	581.15	0.60
25330.000	3105.00	0.0	0.0	190.00	766.60	768.51	768.51	6.90	1175.17	1217.76	40.93	0.0
25330.000	3105.00	0.0	0.0	364.00	766.60	769.10	769.10	8.26	1169.69	1224.80	70.11	0.60
25330.000	3105.00	0.0	0.0	460.00	766.60	769.37	769.37	8.76	1167.25	1227.94	85.50	0.27
25330.000	3105.00	0.0	0.0	700.00	766.60	769.92	769.92	9.64	1162.22	1233.71	121.91	0.55

SUMMARY OF ERRORS

CAUTION SECNO= 7780.000 PROFILE= 2 HYDRAULIC JUMP D.S.  
CAUTION SECNO= 7780.000 PROFILE= 3 HYDRAULIC JUMP D.S.  
CAUTION SECNO= 7780.000 PROFILE= 4 HYDRAULIC JUMP D.S.

CAUTION SECNO= 98.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 98.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY

*[Handwritten notes and stamps]*

CAUTION	SECNO=17800.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=17800.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=17800.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=17800.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=17800.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=17800.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=17800.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=17800.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=17800.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=17800.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=17800.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=17800.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=17842.000	PROFILE= 1	HYDRAULIC JUMP D.S.
CAUTION	SECNO=20250.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=20250.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=20250.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=20250.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=20250.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=20250.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=20250.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=20250.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=20250.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=20250.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=20250.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=20250.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=22175.000	PROFILE= 1	HYDRAULIC JUMP D.S.
CAUTION	SECNO=25330.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=25330.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=25330.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=25330.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=25330.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=25330.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=25330.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=25330.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=25330.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=25330.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=25330.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=25330.000	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 10F	2E	0.2E
800.000	0.	-0.6	-0.2	0.7
2400.000	1600.	-1.1	-0.3	0.9
4225.000	3425.	-1.0	-0.3	0.9
5900.000	5100.	-1.1	-0.3	0.9
7650.000	6850.	-1.3	-0.4	1.0
7720.000	6920.	-0.9	-0.2	0.5
7780.000	6980.	-2.6	-0.8	2.2
7850.000	7050.	-2.6	-0.8	2.2
9600.000	8800.	-0.3	-0.2	1.3
98.000	9000.	-0.9	-0.2	0.2
100.000	9200.	-0.5	-0.2	0.6
10200.000	9400.	-0.7	-0.2	0.5
12800.000	12000.	-1.2	-0.3	0.8
14300.000	13500.	-1.2	-0.3	0.9
15500.000	14700.	-0.8	-0.2	0.6
15950.000	15150.	-1.1	-0.3	0.8
17720.000	16920.	-1.2	-0.3	0.8
17800.000	17000.	-2.3	-0.4	0.5
17842.000	17042.	-1.0	-0.2	0.4
17922.000	17122.	-1.1	-0.3	0.5
20250.000	19450.	-0.4	-0.2	0.3
22100.000	21300.	-1.5	-0.4	0.7
22450.000	21350.	-1.4	-0.4	0.7
22150.000	21400.	-1.6	-0.4	0.7
22175.000	21425.	-0.9	-0.3	0.6
22225.000	21475.	-0.9	-0.3	0.6
22625.000	21525.	-1.0	-0.3	0.6
25330.000	24630.	-0.9	-0.3	0.5
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WEIGHTED AVG FOR REACH		-1.0	-0.3	0.8

FHF FOR THE REACH = 010 WITH 99.00 OF THE REACH WITHIN 0.5 FEET  
 ZONE FOR THE REACH = A 2

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

FLOODWAY

DRAFT BRANCH

D-1

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PROGRAMMER=MAK ACCOUNT=RTI.A25.P03078

JOB TURN-AROUND			JOB PARAMETERS			TIME USED INCLUDES			MISC. JOB VALUES		
	DATE	TIME	SPECIFIED	USED		NO.	EQUIVALENT				
ENTERED	1/19/78	14:37:22.6	TIME 2:00.0	0:20.3	CPU		0:05.4	LINES IN		163	
EXECUTED	1/19/78	14:37:58.1	PAGES 100	23	UR EXCPS	1456	0:05.8	LINES OUT		1210	
RETURNED	1/23/78	10:30:41.1	CARDS 0	0	DISK EXCPS	452	0:09.0	MEMORY TIME		10145 K-SEC	
JOB ENTERED ON THURSDAY			PLOTS 0	0	TAPE READ-WRITE		0:00.0	PRIORITY		01	
					TAPE FILE SEARCH		0:00.0	APPROX. COST		\$6.16	

J O B C O N S O L E L O G

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N 14.37.44 JOB 67 -- DRATFW -- JCL INTERPRETED, TUCC CPU #2
N 14.37.57 JOB 67 -- DRATFW -- BEGINNING EXEC - INIT 6 - CLASS
L*14.37.59 JOB 67 +++++S=255,T=02,J=DRATFW 14:37:58 MAK
N 14.38.35 JOB 67 END EXECUTION.
  
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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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C  
 T1 ROWAN COUNTY BASIN D STRM 1 DRAFT BRANCH  
 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	FR
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	662,100	0.0
J2	NPROF	IPLT	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	0.0
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	200.000	0.0	0.0	0.0	0.0	0.0
NC	0.065	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	1600.000	2710.000	3190.000	4940.000	3190.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	800.000	12.000	1778.000	1800.000	800.000	800.000	800.000	800.000	0.0	0.0
GR	677.100	1000.000	499.000	1300.000	667.400	1600.000	660.900	1700.000	661.300	1778.000
GR	653.000	1786.000	652.200	1789.000	653.100	1797.000	660.300	1800.000	660.100	2100.000
GR	659.800	2400.000	665.000	2500.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	1295.000	2200.000	2610.000	4000.000	2610.000	0.0	0.0	0.0	0.0
X1	2400.000	17.000	335.000	355.000	1600.000	1600.000	1600.000	0.0	0.0	0.0
GR	669.200	0.0	666.700	70.000	663.200	102.000	663.600	165.000	663.500	290.000
GR	664.200	333.000	659.400	339.000	659.000	345.000	659.300	351.000	664.200	355.000
GR	662.600	435.000	662.600	510.000	662.500	555.000	662.600	590.000	665.100	625.000
GR	669.200	640.000	673.800	655.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	4225.000	34.000	362.000	385.000	1825.000	1825.000	1825.000	0.0	0.0	0.0
GR	686.300	0.0	679.500	71.000	680.300	82.000	678.700	87.000	672.700	207.000
GR	671.800	237.000	672.000	242.000	667.500	286.000	667.000	317.000	667.300	347.000
GR	667.200	357.000	666.300	362.000	662.300	367.000	662.200	372.000	662.500	376.000
GR	667.500	385.000	667.800	390.000	667.000	417.000	666.800	437.000	667.500	465.000
GR	667.100	522.000	666.700	657.000	667.400	672.000	666.700	692.000	667.700	707.000
GR	666.700	717.000	667.000	847.000	667.300	867.000	667.900	877.000	667.200	882.000
GR	667.500	885.000	670.200	889.000	674.000	901.000	678.000	925.000	0.0	0.0
X1	5900.000	23.000	478.000	503.000	1675.000	1675.000	1675.000	0.0	0.0	0.0



GR	685.700	0.0	677.400	120.000	676.700	151.000	677.400	176.000	675.400	183.000
GR	674.400	209.000	672.000	213.000	670.300	275.000	670.100	426.000	670.000	438.000
GR	670.700	467.000	670.700	478.000	663.800	484.000	663.500	489.000	664.300	496.000
GR	671.000	503.000	670.100	509.000	670.600	517.000	670.600	551.000	670.300	558.000
GR	674.500	560.000	675.300	583.000	679.500	641.000	0.0	0.0	0.0	0.0
QT	5.000	1050.000	1630.000	2160.000	3150.000	2160.000	0.0	0.0	0.0	0.0

X1	7650.000	17.000	379.000	405.000	1750.000	1750.000	1750.000	0.0	0.0	0.0
GR	688.000	0.0	684.700	9.000	677.300	49.000	676.400	59.000	674.900	89.000
GR	674.400	359.000	674.300	329.000	675.600	379.000	669.000	385.000	669.100	389.000
GR	669.400	399.000	674.400	405.000	678.600	505.000	680.300	545.000	683.000	560.000
GR	680.200	565.000	684.200	605.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	7720.000	7.000	251.200	278.800	70.000	70.000	70.000	0.0	0.0	0.0
GR	689.800	0.0	685.600	167.000	672.100	251.200	671.100	251.200	671.100	278.800
GR	672.100	278.800	684.200	362.000	0.0	0.0	0.0	0.0	0.0	0.0
SB	1.250	1.500	2.500	0.0	27.600	2.000	271.000	0.0	0.0	0.0

ROWAN MILL ROAD MXLCEL 681.7

RDELV 684.8

X1	7780.000	0.0	0.0	0.0	60.000	60.000	60.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	681.700	0.0	0.0	0.0	0.0	0.0	0.0
BT	6.000	0.0	689.800	0.0	167.000	685.600	0.0	251.200	685.000	681.700
BT	278.800	684.800	681.700	362.000	684.200	0.0	429.000	688.400	0.0	0.0

X1	7850.000	22.000	312.000	327.000	70.000	70.000	70.000	0.0	0.0	0.0
GR	688.300	0.0	683.200	23.000	682.100	35.000	681.500	50.000	678.200	68.000
GR	676.100	92.000	674.600	177.000	674.800	242.000	675.200	302.000	675.300	312.000
GR	669.500	315.000	668.300	318.000	669.500	321.000	674.700	327.000	674.600	402.000
GR	674.000	437.000	675.100	502.000	674.600	509.000	676.000	512.000	677.200	543.000
GR	679.600	555.000	684.400	570.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	9600.000	25.000	790.000	808.000	1750.000	1750.000	1750.000	0.0	0.0	0.0
GR	702.800	0.0	698.000	50.000	697.900	75.000	694.700	155.000	691.100	205.000
GR	681.700	475.000	680.700	490.000	679.900	545.000	680.100	575.000	679.700	605.000
GR	680.300	653.000	679.700	659.000	679.500	720.000	680.200	725.000	679.300	750.000
GR	680.700	790.000	675.700	795.000	676.200	801.000	675.800	805.000	680.700	808.000
GR	680.000	840.000	680.200	902.000	679.200	930.000	680.700	950.000	690.100	995.000
QT	5.000	975.000	1720.000	2040.000	3040.000	2040.000	0.0	0.0	0.0	0.0

X1	98.000	0.0	0.0	0.0	200.000	200.000	200.000	0.0	2.300	0.0
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X1	100.000	0.0	0.0	0.0	200.000	200.000	200.000	0.0	2.300	0.0
ET	5.000	0.0	0.0	0.0	0.0	-5.400	0.0	0.0	0.0	0.0

X1	10200.000	27.000	420.000	430.000	200.000	200.000	200.000	0.0	0.0	0.0
GR	700.900	0.0	686.400	130.000	685.500	180.000	685.900	274.000	684.200	360.000
GR	685.000	370.000	685.500	410.000	686.200	420.000	682.900	421.000	682.700	424.000
GR	683.100	428.000	685.200	430.000	685.400	454.000	684.700	485.000	685.400	494.000
GR	684.700	511.000	684.800	559.000	685.200	592.000	685.400	661.000	686.100	670.000
GR	685.500	681.000	686.400	702.000	687.500	781.000	688.900	836.000	691.500	860.000
GR	694.000	921.000	700.700	984.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	12800.000	16.000	330.000	345.000	2600.000	2600.000	2600.000	0.0	0.0	0.0
GR	699.000	0.0	689.000	160.000	687.600	165.000	687.200	270.000	687.600	330.000
GR	685.100	335.000	684.900	340.000	684.900	342.000	687.200	345.000	686.700	405.000
GR	687.500	545.000	688.900	575.000	689.500	605.000	694.100	725.000	694.300	755.000

GR	697.700	935.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	895.000	1590.000	1880.000	2800.000	1880.000	0.0	0.0	0.0	0.0
X1	14300.000	18.000	210.000	225.000	1500.000	1500.000	1500.000	0.0	0.0	0.0
GR	710.900	0.0	700.100	65.000	691.600	100.000	669.900	180.000	691.000	210.000
GR	688.400	215.000	687.900	219.000	687.800	223.000	691.000	225.000	689.700	255.000
GR	689.500	275.000	689.900	295.000	689.800	375.000	691.000	395.000	691.900	440.000
GR	692.600	445.000	695.100	520.000	702.600	570.000	0.0	0.0	0.0	0.0

X1	15500.000	8.000	1590.000	1602.000	1200.000	1200.000	1200.000	0.0	0.0	0.0
GR	711.700	1000.000	705.300	1200.000	696.000	1590.000	692.200	1593.000	692.200	1600.000
GR	696.500	1602.000	695.700	1780.000	711.700	1805.000	0.0	0.0	0.0	0.0

X1	15950.000	20.000	543.000	556.000	450.000	450.000	450.000	0.0	0.0	0.0
GR	711.800	0.0	701.500	248.000	699.100	344.000	697.800	376.000	697.400	402.000
GR	696.900	430.000	697.600	468.000	696.800	484.000	696.800	508.000	698.200	526.000
GR	698.900	543.000	694.900	546.000	693.900	550.000	694.100	554.000	698.900	556.000
GR	697.200	593.000	697.500	633.000	701.100	641.000	707.100	651.000	709.700	661.000
QT	5.000	525.000	970.000	1190.000	1720.000	1190.000	0.0	0.0	0.0	0.0

X1	17720.000	16.000	268.000	308.000	1770.000	1770.000	1770.000	0.0	0.0	0.0
GR	713.900	0.0	707.000	100.000	704.200	130.000	701.600	185.000	701.800	210.000
GR	703.400	288.000	700.600	295.000	700.300	305.000	702.900	308.000	702.800	340.000
GR	704.300	359.000	704.200	370.000	706.600	425.000	709.600	435.000	713.100	495.000
GR	717.300	530.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	17800.000	13.000	388.000	394.000	80.000	80.000	80.000	0.0	0.0	0.0
GR	719.800	0.0	716.000	70.000	710.200	205.000	706.800	370.000	702.300	388.000
GR	700.200	388.900	699.300	391.000	700.200	393.100	702.300	394.000	706.900	412.000
GR	707.000	430.000	709.400	580.000	710.800	610.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	6.000	0.010	28.300	0.0	0.0	0.0

RDND NEAL RD                      MXLCEL    705.3                      RDELV    706.8

X1	17842.000	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	705.300	0.0	0.0	0.0	0.0	0.0	0.0
BT	13.000	0.0	719.800	0.0	70.000	716.000	0.0	205.000	710.200	0.0
BT	370.000	706.800	0.0	388.000	706.800	702.300	388.900	706.900	704.400	391.000
BT	706.800	705.300	393.100	706.800	704.400	394.000	706.800	702.300	412.000	706.900
BT	0.0	430.000	707.000	0.0	580.000	709.400	0.0	610.000	710.800	0.0

X1	17922.000	20.000	354.000	362.000	80.000	80.000	80.000	0.0	0.0	0.0
GR	710.400	0.0	715.900	50.000	714.400	63.000	715.200	90.000	704.400	230.000
GR	705.800	234.000	706.300	241.000	706.000	254.000	703.300	260.000	702.600	293.000
GR	703.100	338.000	703.700	354.000	701.200	356.000	701.300	361.000	703.900	362.000
GR	702.700	433.000	703.900	508.000	706.900	543.000	714.700	588.000	717.900	603.000
JT	5.000	427.000	798.000	937.000	1450.000	987.000	0.0	0.0	0.0	0.0

X1	20250.000	11.000	1256.000	1268.000	2328.000	2328.000	2328.000	0.0	0.0	0.0
GR	727.600	1000.000	712.300	1100.000	711.200	1200.000	712.200	1256.000	709.000	1257.000
GR	700.800	1260.000	709.200	1265.000	712.400	1268.000	713.000	1300.000	716.000	1335.000
GR	727.600	1366.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	357.000	673.000	838.000	1240.000	838.000	0.0	0.0	0.0	0.0

X1	22100.000	10.000	1197.000	1215.000	1850.000	1850.000	1850.000	0.0	-0.300	0.0
GR	749.400	1000.000	738.300	1100.000	734.800	1197.000	731.000	1205.000	730.600	1207.000
GR	730.600	1209.000	735.500	1215.000	736.700	1262.000	741.000	1300.000	749.400	1358.000



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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 ROWAN COUNTY BASIN D STRM 1 DRAFT BRANCH  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	663.100	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

\*PROF 2

CCHV= 0.100 CEHV= 0.300

\*SECNO 800.000

2800 NAT Q1= 485.13 WSEL= 662.10 ENC Q1= 485.13 WSEL= 663.10 RATIO= 0.0  
 NAT Q1= 808. RATIOS LOB,CH,ROB= 0.0565 0.1669 0.7766 WSEL= 663.10  
 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 XLCHR ITRIAL IDC ICONT CORAR TOPWID ENDST

3470 ENCROACHMENT STATIONS= 1732.4 2104.4 TYPE= 4 TARGET= 0.454  
 800.00 10.90 663.10 0.0 662.10 663.29 0.19 0.0 0.0 661.30  
 3190. 151. 977. 2062. 87. 182. 883. 0. 0. 660.30  
 0.0 1.73 5.37 2.33 0.085 0.060 0.085 0.0 652.20 1732.43  
 0.004346 800. 800. 800. 0 0 0 0.0 372.00 2104.42

\*SECNO 2400.000

2800 NAT Q1= 662.24 WSEL= 666.28 ENC Q1= 662.24 WSEL= 667.28 RATIO= 0.0  
 NAT Q1= 1040. RATIOS LOB,CH,POR= 0.3714 0.1079 0.5206 WSEL= 667.28

3470 ENCROACHMENT STATIONS= 180.9 517.8 TYPE= 4 TARGET= 0.364  
 2400.00 8.30 667.30 0.0 666.28 667.36 0.06 4.06 0.01 664.20  
 2610. 908. 442. 1260. 567. 142. 703. 47. 13. 664.20  
 0.23 1.60 3.11 1.79 0.085 0.060 0.085 0.060 659.00 180.94  
 0.001527 1600. 1600. 1600. 2 0 0 0.0 336.83 517.76

\*SECNO 4225.000

2800 NAT Q1= 567.91 WSEL= 669.56 ENC Q1= 567.91 WSEL= 670.56 RATIO= 0.0  
 NAT Q1= 954. RATIOS LOB,CH,ROB= 0.1171 0.1343 0.7486 WSEL= 670.56

3470 ENCROACHMENT STATIONS= 316.3 658.4 TYPE= 4 TARGET= 0.405  
 4225.00 8.34 670.54 0.0 669.56 670.63 0.09 3.26 0.01 666.30  
 2610. 281. 586. 1743. 156. 155. 948. 103. 27. 667.50

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

100 YEAR FLOOD WATER SUR

SUMMARY PRINTOUT

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
A	800.000	800.00	0.0	0.0	3190.00	652.20	662.10	0.0	4.92	1681.54	2444.23	1515.04-2.1	0.0
	800.000	800.00	0.0	0.0	3190.00	652.20	663.10	0.0	5.37	1732.43	2104.42	1152.64-2.8	1.00
B	2400.000	1600.00	0.0	0.0	2610.00	659.00	666.28	0.0	2.83	73.82	629.32	1690.19-1.5	0.0
	2400.000	1600.00	0.0	0.0	2610.00	659.00	667.30	0.0	3.11	180.94	517.76	1411.27-1.9	1.02
C	4225.000	1825.00	0.0	0.0	2610.00	662.20	669.56	0.0	3.40	265.87	888.05	1596.90-1.6	0.0
	4225.000	1825.00	0.0	0.0	2610.00	662.20	670.54	0.0	3.78	316.30	658.44	1259.05-2.1	0.98
D	5900.000	1675.00	0.0	0.0	2610.00	663.50	673.44	0.0	4.31	210.60	559.49	1147.93-2.0	0.0
	5900.000	1675.00	0.0	0.0	2610.00	663.50	674.43	0.0	4.69	340.44	535.67	902.23-2.5	0.98
E	7650.000	1750.00	0.0	0.0	2160.00	669.00	677.46	0.0	3.53	48.12	477.93	1204.18-1.8	0.0
	7650.000	1750.00	0.0	0.0	2160.00	669.00	678.47	0.0	3.86	212.41	426.11	940.48-1.5	1.01
	7720.000	70.00	0.0	0.0	2160.00	671.10	677.09	0.0	9.30	220.07	313.12	328.75	0.0
	7720.000	70.00	0.0	0.0	2160.00	671.10	677.43	0.0	11.75	248.62	281.60	202.60	0.34
*	7780.000	60.00	684.20	681.70	2160.00	671.10	678.91	0.0	6.29	208.75	325.60	519.20	0.0
*	7780.000	60.00	684.20	681.70	2160.00	671.10	679.91	0.0	5.22	202.51	332.47	642.57	1.00
F	7850.000	70.00	0.0	0.0	2160.00	668.30	679.42	0.0	1.70	61.33	554.12	2145.52-1.0	0.0
	7850.000	70.00	0.0	0.0	2160.00	668.30	680.25	0.0	1.90	159.13	467.08	1773.51-1.1	0.33
	9600.000	1750.00	0.0	0.0	2160.00	675.70	681.39	0.0	6.68	479.76	953.27	705.22	0.0
	9600.000	1750.00	0.0	0.0	2160.00	675.70	682.28	0.0	8.00	690.08	866.30	465.21	0.90
	98.000	200.00	0.0	0.0	2040.00	678.00	683.00	0.0	5.76	478.04	953.82	759.35	0.0
	98.000	200.00	0.0	0.0	2040.00	678.00	684.86	0.0	6.40	682.94	869.99	544.42	1.07
	100.000	200.00	0.0	0.0	2040.00	680.30	685.97	0.0	6.31	479.76	953.27	705.08	0.0
	100.000	200.00	0.0	0.0	2040.00	680.30	686.94	0.0	7.31	689.22	866.88	479.98	0.97
G	10200.000	200.00	0.0	0.0	2040.00	682.70	687.35	0.0	3.05	121.50	770.04	1209.87-1.7	0.0
	10200.000	200.00	0.0	0.0	2040.00	682.70	688.23	0.0	2.82	247.92	602.95	1123.27-1.8	0.89
H	12800.000	2600.00	0.0	0.0	2040.00	684.90	691.09	0.0	2.01	126.60	646.42	1721.72-1.2	0.0
	12800.000	2600.00	0.0	0.0	2040.00	684.90	691.53	0.0	2.16	190.55	530.89	1509.12-1.4	0.45

	SECNO	XLCH	ELTRO	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
I	14300.000	1500.00	0.0	0.0	1880.00	687.80	693.07	0.0	3.30	93.96	459.03	942.16-2.0	0.0
	14300.000	1500.00	0.0	0.0	1880.00	687.80	693.95	0.0	3.56	138.10	363.96	806.31-2.3	0.48
J	15500.000	1200.00	0.0	0.0	1880.00	692.20	698.58	697.67	5.52	1481.93	1784.50	653.16-2.9	0.0
	15500.000	1200.00	0.0	0.0	1880.00	692.20	699.07	0.0	5.84	1551.70	1735.07	555.31-3.4	0.50
K	15950.000	450.00	0.0	0.0	1880.00	693.90	700.62	0.0	3.15	283.20	639.93	964.64-2.0	0.0
	15950.000	450.00	0.0	0.0	1880.00	693.90	701.13	0.0	3.33	399.12	620.18	841.95-2.2	0.51
L	17720.000	1770.00	0.0	0.0	1190.00	700.30	705.28	0.0	3.07	118.46	394.69	652.63-1.5	0.0
	17720.000	1770.00	0.0	0.0	1190.00	700.30	705.76	0.0	3.31	183.98	345.15	549.97-2.2	0.48
*	17800.000	80.00	0.0	0.0	1190.00	699.30	707.83	707.83	10.18	320.05	481.81	225.93	0.0
*	17800.000	80.00	0.0	0.0	1190.00	699.30	707.24	707.24	13.65	374.81	410.15	132.24	-0.59
	17842.000	42.00	706.80	705.30	1190.00	699.30	708.67	0.0	6.61	279.00	534.69	402.50	0.0
	17842.000	42.00	999999.00	0.0	1190.00	699.30	708.08	0.0	9.70	362.29	432.77	206.13	-0.59
M	17922.000	80.00	0.0	0.0	1190.00	701.20	708.98	0.0	0.93	170.64	554.99	1823.64	0.0
	17922.000	80.00	0.0	0.0	1190.00	701.20	708.97	0.0	1.07	238.89	505.48	1503.72	-0.01
N	20250.000	2328.00	0.0	0.0	987.00	708.80	712.86	712.86	8.73	1096.36	1292.35	221.61	0.0
	20250.000	2328.00	0.0	0.0	987.00	708.80	713.33	713.33	9.83	1191.64	1277.51	161.93	0.47
O	22000.000	1850.00	0.0	0.0	838.00	730.30	737.38	0.0	5.29	1117.11	1270.68	287.75	0.0
	22000.000	1850.00	0.0	0.0	838.00	730.30	737.94	0.0	5.56	1178.66	1234.69	210.24	0.56
	22450.000	50.00	0.0	0.0	838.00	730.40	737.71	0.0	4.76	1110.66	1272.74	324.49	0.0
	22450.000	50.00	0.0	0.0	838.00	730.40	738.29	0.0	4.96	1174.97	1237.69	242.31	0.57
	22150.000	50.00	0.0	0.0	838.00	730.50	738.07	0.0	4.88	1100.65	1310.84	375.77	0.0
	22150.000	50.00	0.0	0.0	838.00	730.50	738.64	0.0	4.99	1167.58	1246.03	285.99	0.57
	22175.000	25.00	734.20	734.50	838.00	730.50	738.65	0.0	3.48	1093.06	1328.09	506.95	0.0
	22175.000	25.00	999999.00	0.0	838.00	730.50	739.23	0.0	3.55	1156.48	1257.96	402.92	0.57
	22225.000	50.00	0.0	0.0	838.00	730.60	738.73	0.0	3.33	1096.09	1279.98	467.73	0.0
	22225.000	50.00	0.0	0.0	838.00	730.60	739.30	0.0	3.43	1159.89	1247.03	374.84	0.57
P	22625.000	50.00	0.0	0.0	838.00	730.70	738.83	0.0	3.33	1096.09	1279.97	467.59	0.0
	22625.000	50.00	0.0	0.0	838.00	730.70	739.39	0.0	3.45	1159.72	1247.18	373.31	0.56
Q*	25330.000	3105.00	0.0	0.0	460.00	766.60	769.37	769.37	8.76	1167.25	1227.94	85.50	0.0
	25330.000	3105.00	0.0	0.0	460.00	766.60	769.75	769.75	10.82	1194.96	1205.17	54.02	0.38

SUMMARY OF ERRORS

- CAUTION SECNO= 7780.000 PROFILE= 1 HYDRAULIC JUMP D.S.
- CAUTION SECNO= 7780.000 PROFILE= 2 HYDRAULIC JUMP D.S.
- CAUTION SECNO=17800.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=17800.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=17800.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO=17800.000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO=17800.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=17800.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=20250.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=20250.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=20250.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=20250.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=20250.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=20250.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=25330.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=25330.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=25330.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=25330.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=25330.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=25330.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR  
 PROFILE NO. 2

STATION	FLOODWAY WIDTH (FT)	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		
				WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
800.000	372.	1153.	2.8	663.1	662.1	1.0
12400.000	337.	1411.	1.8	667.3	666.3	1.0
14225.000	342.	1259.	2.1	670.6	669.6	1.0
15900.000	195.	922.	2.8	674.4	673.4	1.0
17650.000	214.	940.	2.3	678.5	677.5	1.0
17720.000	33.	203.	10.7	677.4	677.1	0.3
17780.000	130.	643.	3.4	679.9	678.9	1.0
17850.000	308.	1774.	1.2	680.2	679.4	0.8
18600.000	176.	465.	4.6	682.3	581.4	0.9
198.000	187.	544.	3.7	684.9	683.8	1.1
100.000	178.	480.	4.3	687.0	686.0	1.0
10200.000	355.	1123.	1.8	688.2	687.3	0.9
112800.000	340.	1509.	1.4	691.5	691.1	0.4
114300.000	226.	806.	2.3	693.6	693.1	0.5
115500.000	183.	555.	3.4	699.1	698.6	0.5
115950.000	221.	842.	2.2	701.1	700.6	0.5
117720.000	161.	550.	2.2	705.8	705.3	0.5
17800.000	35.	132.	9.0	707.3	707.8	-0.5
17842.000	70.	206.	5.8	708.2	708.7	-0.5
17922.000	267.	1504.	0.8	709.0	709.0	0.0
20250.000	86.	162.	6.1	713.4	712.9	0.5
22100.000	56.	210.	4.0	738.0	737.4	0.6
22450.000	63.	242.	3.5	738.3	737.7	0.6
22150.000	78.	286.	2.9	738.7	738.1	0.6
22175.000	101.	403.	2.1	739.3	738.7	0.6
22225.000	87.	375.	2.2	739.3	738.7	0.6
22625.000	87.	373.	2.2	739.4	738.8	0.6
25330.000	20.	54.	8.5	769.8	769.4	0.4



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

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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C  
 T1 ROWAN COUNTY BASIN D STRM 1 DRAFT BRANCH  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR
	-1.	2.	0.	0.	0.004300	0.0	0.0	0.	653.000	0.0
J2	NPROF	IPLOT	PREVS	XSECV	XSECH	FM	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
OT	5.000	1600.000	2710.000	3190.000	4940.000	3190.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	800.000	12.000	1778.000	1800.000	800.000	800.000	800.000	0.0	0.0	0.0
GR	577.100	1000.000	249.000	1300.000	667.000	1000.000				



X1	7650.000	17.000	379.000	405.000	1750.000	1750.000	1750.000	0.0	0.0	0.0
GR	688.000	0.0	684.700	9.000	677.300	49.000	676.400	59.000	674.900	89.000
GR	674.400	159.000	674.300	329.000	675.600	379.000	669.000	385.000	669.100	389.000
GR	669.400	399.000	674.400	405.000	678.600	505.000	680.300	545.000	683.000	560.000
GR	680.200	565.000	684.200	605.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	7720.000	7.000	251.200	278.800	70.000	70.000	70.000	0.0	0.0	0.0
GR	689.800	0.0	685.600	167.000	672.100	251.200	671.100	251.200	671.100	278.800
GR	672.100	278.800	684.200	362.000	0.0	0.0	0.0	0.0	0.0	0.0
SB	1.250	1.500	2.500	0.0	27.600	2.000	271.000	0.0	0.0	0.0

RDN0 ROWAN MILL ROAD MXLCEL 681.7

RDELV 684.8

X1	7780.000	0.0	0.0	0.0	60.000	60.000	60.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	681.700	0.0	0.0	0.0	0.0	0.0	0.0
BT	6.000	0.0	689.800	0.0	167.000	685.600	0.0	251.200	685.000	681.700
BT	278.800	684.800	681.700	362.000	684.200	0.0	429.000	688.400	0.0	0.0

X1	7850.000	22.000	312.000	327.000	70.000	70.000	70.000	0.0	0.0	0.0
GR	688.300	0.0	683.200	23.000	682.100	35.000	681.500	50.000	678.200	68.000
GR	676.100	92.000	674.600	177.000	674.800	242.000	675.200	302.000	675.300	312.000
GR	669.500	315.000	668.300	318.000	669.500	321.000	674.700	327.000	674.600	402.000
GR	674.000	437.000	675.100	502.000	674.600	509.000	676.000	512.000	677.200	543.000
GR	679.600	555.000	684.400	570.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	9600.000	25.000	790.000	808.000	1750.000	1750.000	1750.000	0.0	0.0	0.0
GR	702.800	0.0	698.000	50.000	697.900	75.000	694.700	155.000	691.100	205.000
GR	681.700	475.000	680.700	490.000	679.900	545.000	680.100	575.000	679.700	605.000
GR	680.300	653.000	679.700	659.000	679.500	720.000	680.200	725.000	679.300	750.000
GR	680.700	790.000	675.700	795.000	676.200	801.000	675.800	805.000	680.700	808.000
GR	680.000	840.000	680.200	902.000	679.200	930.000	680.700	950.000	680.100	995.000
BT	5.000	975.000	1720.000	2040.000	3040.000	2040.000	0.0	0.0	0.0	0.0

X1	98.000	0.0	0.0	0.0	200.000	200.000	200.000	0.0	2.300	0.0
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X1	100.000	0.0	0.0	0.0	200.000	200.000	200.000	0.0	2.300	0.0
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X1	10200.000	27.000	420.000	430.000	200.000	200.000	200.000	0.0	0.0	0.0
GR	700.900	0.0	686.400	130.000	685.500	180.000	685.900	274.000	684.200	360.000
GR	685.000	370.000	685.500	410.000	686.200	420.000	682.900	421.000	682.700	424.000
GR	683.100	428.000	685.200	430.000	685.400	454.000	684.700	485.000	685.400	494.000
GR	684.700	511.000	684.800	559.000	685.200	592.000	685.400	661.000	686.100	670.000
GR	685.500	681.000	686.400	702.000	687.500	781.000	688.900	836.000	691.500	860.000

X1	100.000	0.0	0.0	0.0	200.000	200.000	200.000	0.0	2.300	0.0
X1	10200.000	27.000	420.000	430.000	200.000	200.000	200.000	0.0	0.0	0.0
GR	700.900	0.0	686.400	130.000	685.500	100.000	665.900	274.000	604.200	360.000
GR	685.000	370.000	685.500	410.000	686.200	420.000	682.900	421.000	632.700	424.000
GR	683.100	428.000	685.200	430.000	685.400	454.000	684.700	485.000	605.400	494.000
GR	684.700	511.000	684.800	559.000	685.200	592.000	685.400	661.000	686.100	670.000
GR	685.500	681.000	686.400	702.000	687.500	781.000	688.900	836.000	691.500	860.000
GR	694.000	921.000	700.700	984.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	12800.000	16.000	330.000	345.000	2600.000	2600.000	2600.000	0.0	0.0	0.0
GR	699.000	0.0	689.000	160.000	687.600	165.000	687.200	270.000	687.600	330.000
GR	685.100	335.000	684.900	340.000	684.900	342.000	687.200	345.000	686.700	405.000
GR	687.500	545.000	688.900	575.000	689.500	605.000	694.100	725.000	694.300	755.000
GR	697.700	935.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	895.000	1590.000	1380.000	2800.000	1800.000	0.0	0.0	0.0	0.0
X1	14300.000	18.000	210.000	225.000	1500.000	1500.000	1500.000	0.0	0.0	0.0
GR	710.900	0.0	700.100	65.000	691.600	100.000	689.900	130.000	691.000	210.000
GR	688.400	215.000	687.900	219.000	687.800	223.000	691.000	225.000	689.700	255.000
GR	689.500	275.000	689.900	295.000	689.800	375.000	691.000	395.000	691.900	440.000
GR	692.600	445.000	695.100	520.000	702.600	570.000	0.0	0.0	0.0	0.0
X1	15500.000	8.000	1590.000	1602.000	1200.000	1200.000	1200.000	0.0	0.0	0.0
GR	711.700	1000.000	705.300	1200.000	696.000	1590.000	692.200	1593.000	692.200	1600.000
GR	696.500	1602.000	695.700	1780.000	711.700	1805.000	0.0	0.0	0.0	0.0
X1	15950.000	20.000	543.000	556.000	450.000	450.000	450.000	0.0	0.0	0.0
GR	711.800	0.0	701.500	248.000	699.100	344.000	697.800	376.000	697.400	402.000
GR	696.900	430.000	697.600	468.000	696.800	484.000	696.800	508.000	698.200	526.000
GR	698.900	543.000	694.900	546.000	693.900	550.000	694.100	554.000	698.900	556.000
GR	697.200	593.000	697.500	633.000	701.100	641.000	707.100	651.000	709.700	661.000
QT	5.000	525.000	970.000	1190.000	1720.000	1190.000	0.0	0.0	0.0	0.0
X1	17720.000	16.000	288.000	308.000	1770.000	1770.000	1770.000	0.0	0.0	0.0
GR	713.900	0.0	707.000	100.000	704.200	130.000	701.600	185.000	701.800	210.000
GR	703.400	288.000	700.400	295.000	700.300	385.000	702.900	308.000	702.800	340.000
GR	704.300	359.000	704.200	370.000	706.600	425.000	709.600	435.000	713.100	495.000
GR	717.300	530.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	17800.000	13.000	288.000	394.000	30.000	30.000	30.000	0.0	0.0	0.0

X1	17720.000	16.000	288.000	308.000	1770.000	1770.000	1770.000	0.0	0.0	0.0
GR	713.900	0.0	707.000	100.000	704.200	130.000	701.600	185.000	701.800	210.900
GR	703.400	288.000	700.600	295.000	710.300	305.000	702.900	308.000	702.800	340.000
GR	704.300	359.000	704.200	370.000	706.600	425.000	709.600	435.000	713.100	495.000
GR	717.300	530.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	17800.000	13.000	388.000	394.000	80.000	80.000	80.000	0.0	0.0	0.0
GR	719.800	0.0	716.000	70.000	710.200	205.000	706.800	370.000	702.300	388.000
GR	700.200	388.900	699.300	391.000	700.200	393.100	702.300	394.000	706.900	412.000
GR	707.000	430.000	709.400	580.000	710.800	610.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	6.000	0.010	28.300	0.0	0.0	0.0

R0No NEAL RD

MXLCEL 705.3

RDELV 706.8

X1	17842.000	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	705.300	0.0	0.0	0.0	0.0	0.0	0.0
BT	13.000	0.0	719.800	0.0	70.000	716.000	0.0	205.000	710.200	0.0
BT	370.000	706.400	0.0	388.000	706.800	702.300	388.900	706.800	704.400	391.000
BT	706.800	705.300	393.100	706.800	704.400	394.000	706.800	702.300	412.000	706.900
BT	0.0	430.000	707.000	0.0	580.000	709.400	0.0	610.000	710.800	0.0

X1	17922.000	20.000	354.000	362.000	80.000	80.000	80.000	0.0	0.0	0.0
GR	718.400	0.0	715.900	50.000	714.400	63.000	715.200	90.000	704.400	230.000
GR	705.800	234.000	706.300	241.000	706.000	254.000	703.300	260.000	702.600	293.000
GR	703.100	338.000	703.700	354.000	701.200	356.000	701.300	361.000	703.900	362.000
GR	702.700	433.000	703.900	508.000	706.900	543.000	714.700	596.000	717.900	603.000
QT	5.000	427.000	798.000	987.000	1450.000	987.000	0.0	0.0	0.0	0.0

X1	20250.000	11.000	1256.000	1268.000	2328.000	2328.000	2328.000	0.0	0.0	0.0
GR	727.600	1000.000	712.300	1100.000	711.200	1200.000	712.200	1256.000	709.000	1257.000
GR	708.800	1260.000	709.200	1265.000	712.400	1268.000	713.000	1300.000	716.000	1335.000
GR	727.600	1366.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	357.000	673.000	838.000	1240.000	838.000	0.0	0.0	0.0	0.0

X1	22100.000	10.000	1197.000	1215.000	1850.000	1850.000	1850.000	0.0	-0.300	0.0
GR	749.400	1000.000	738.300	1100.000	734.800	1197.000	731.000	1205.000	730.600	1207.000
GR	730.600	1209.000	735.500	1215.000	736.700	1262.000	741.000	1300.000	749.400	1358.000

X1	22450.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
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//RDRAFT JOB RTI.A25.P03078,MAK,M=1,T=2,P=100,PRTY=1  
 //\*PROCLIB=RTI.MG.PROCLIB  
 // EXEC HEC2  
 //SYSIN DD \*

C	3										
C	7780	RDNO	ROWAN	MILL	ROAD	MXLCEL	681.7		RDELV	684.8	
C	17842	RDNO	NEAL	RD		MXLCEL	705.3		RDELV	706.8	
C	22175	RDNO	CAURLE	RD		MXLCEL	734.5		RDELV	736.2	
T1		ROWAN	COUNTY	BASIN	0	STRM	1	DRAFT	BRANCH		
T2		FLOODPLAIN	STUDY	AT	ROWAN	&	DAVIDSON	COUNTIES	M-G	JOB	NO. 6918
T3		10	YEAR	FLOOD	WATER	SURFACE	PROFILE				
J1	-1	2				0.0043				653	
J2	0		-1								
J3	38	39	40	41	43	42	1	2	26	53	
J3	54	25	50	0	201						
NC	0.085	0.085	0.06	0.1	0.3						
QT	5	1600	2710	3190	4940	3190					
ET	5	0	0	0	0	-10.4					
X1	800	12	1778	1800	800	800	800				
GR	677.1	1000	699.0	1300	667.4	1600	660.9	1700	661.3	1778	
GR	653.0	1786	652.2	1789	653.1	1797	660.3	1800	660.1	2100	
GR	659.8	2400	665.0	2500							
QT	5	1295	2200	2610	4000	2610					
X1	2400	17	335	355	1600	1600	1600				
GR	669.2	0	666.7	70	663.2	102	663.6	165	663.5	290	
GR	664.2	335	659.4	339	659.0	345	659.3	351	664.2	355	
GR	662.6	435	662.6	510	662.5	555	662.6	590	665.1	625	
GR	669.2	640	673.8	655							
X1	4225	34	362	385	1825	1825	1825				
GR	686.3	0	679.5	71	680.3	82	678.7	87	672.7	207	
GR	671.8	237	672.0	242	667.5	286	667.0	317	667.3	347	
GR	667.2	357	666.3	362	662.3	367	662.2	372	662.5	376	
GR	667.5	385	667.8	390	667.0	417	666.8	437	667.5	465	
GR	667.1	522	666.7	657	667.4	672	666.7	692	667.7	707	
GR	666.7	717	667.0	847	667.3	867	667.9	877	667.2	882	
GR	667.5	885	670.2	889	674.0	901	678.0	925			
X1	5900	23	478	503	1675	1675	1675				
GR	685.7	0	677.4	120	676.7	151	677.4	176	675.4	183	
GR	674.4	209	672.0	213	670.3	275	670.1	426	670.0	438	
GR	670.7	467	670.7	478	663.8	484	663.5	489	664.3	496	
GR	671.0	503	670.1	509	670.6	517	670.6	551	670.3	558	
GR	674.5	560	675.3	583	679.5	641					
QT	5	1050	1430	2160	3150	2160					
X1	7650	17	379	405	1750	1750	1750				
GR	688.0	0	684.7	9	677.3	49	676.4	59	674.9	89	
GR	674.4	159	674.3	329	675.6	379	669.0	385	669.1	389	
GR	669.4	399	674.4	405	678.6	505	680.3	545	683.0	560	
GR	680.2	565	684.2	605							
X1	7720	7	251.2	278.8	70	70	70				



GR 689.8	0	685.6	167	672.1	251.2	671.1	251.2	671.1	278.8
GR 672.1	278.8	684.2	362						
SB 1.25	1.5	2.5		27.6	2	271			
X1 7780	0	0	0	60	60	60			
X2		1	681.7						
BT 6	0	689.8	0	167	685.6	0	251.2	685.0	681.7
BT 278.8	684.8	681.7	362	684.2	0	429	688.4	0	
X1 7850	22	312	327	70	70	70			
GR 688.3	0	683.2	23	682.1	35	681.5	50	678.2	68
GR 676.1	92	674.6	477	674.8	242	675.2	302	675.3	312
GR 669.5	315	668.3	318	669.5	321	674.7	327	674.6	402
GR 674.0	437	675.1	502	674.6	509	676.0	512	677.2	543
GR 679.6	555	684.4	570						
X1 9600	25	790	808	1750	1750	1750			
GR 702.8	0	698.0	50	697.9	75	694.7	155	691.1	205
GR 681.7	475	680.7	490	679.9	545	680.1	575	679.7	605
GR 680.3	653	679.7	659	679.5	720	680.2	725	679.3	750
GR 680.7	790	675.7	795	676.2	801	675.8	805	680.7	808
GR 680.0	840	680.2	902	679.2	930	680.7	950	690.1	995
QT 5	975	1720	2040	3040	2040				
X1 98.00	0	0	0	200	200	200		2.3	
X1100.00	0	0	0	200	200	200		2.3	
X1 10200	27	420	430	200	200	200			
GR 700.9	0	686.4	130	685.5	180	685.9	274	684.2	360
GR 685.0	370	685.5	410	686.2	420	682.9	421	682.7	424
GR 683.1	428	685.2	430	685.4	454	684.7	485	685.4	494
GR 684.7	511	684.8	559	685.2	592	685.4	661	686.1	670
GR 685.5	681	685.4	702	687.5	781	688.9	836	691.5	860
GR 694.0	921	700.7	984						
X1 12800	16	330	345	2600	2600	2600			
GR 699.0	0	689.0	160	687.6	165	687.2	270	687.6	330
GR 685.1	335	684.9	340	684.9	342	687.2	345	686.7	405
GR 687.5	545	688.9	575	689.5	605	694.1	725	694.3	755
GR 697.7	935								
QT 5	895	1590	1880	2800	1880				
X1 14300	18	210	225	1500	1500	1500			
GR 710.9	0	700.1	65	691.6	100	689.9	180	691.0	210
GR 688.4	215	687.9	219	687.8	223	691.0	225	689.7	255
GR 689.5	275	689.9	295	689.8	375	691.0	395	691.9	440
GR 692.6	445	695.1	520	702.6	570				
X1 15500	3	1590	1602	1200	1200	1200			
GR 711.7	1000	705.3	1200	696.0	1590	692.2	1593	692.2	1600
GR 696.5	1602	695.7	1780	711.7	1805				
X1 15950	20	543	556	450	450	450			
GR 711.8	0	701.5	248	699.1	344	697.8	376	697.4	402
GR 696.9	430	697.6	468	695.8	484	696.8	508	698.2	526
GR 698.9	543	694.8	546	693.9	550	694.1	554	698.9	556
GR 697.2	593	697.5	633	701.1	641	707.1	651	709.7	661
QT 5	525	970	1190	1720	1190				
X1 17720	16	288	308	1770	1770	1770			

GR	713.9	0	707.0	100	704.2	130	701.6	185	701.8	210
GR	703.4	288	700.6	295	700.3	305	702.9	300	702.8	340
GR	704.3	359	704.2	370	706.6	425	709.6	435	713.1	495
GR	717.3	530								
X1	17800	13	388	394	80	80	80			
GR	719.8	0	716.0	70	710.2	205	706.8	370	702.3	388
GR	700.2	388.9	699.3	391	700.2	393.1	702.3	394	706.9	412
GR	707.0	430	709.4	580	710.8	610				
SB	0.9	1.5	2.5		6	0.01	28.3			
X1	17842	0	0	0	42	42	42			
X2			1	705.3						
BT	13	0	719.8	0	70	716.0	0	205	710.2	0
BT	370	706.8	0	388	706.8	702.3	388.9	706.8	704.4	391
BT	706.8	705.3	393.1	706.8	704.4	394	706.8	702.3	412	706.9
BT	0	430	707.0	0	580	709.4	0	610	710.8	0
X1	17922	20	354	362	80	80	80			
GR	718.4	0	715.9	50	714.4	63	715.2	90	704.4	230
GR	705.8	234	706.3	241	706.0	254	703.3	260	702.6	293
GR	703.1	338	703.7	354	701.2	356	701.3	361	703.9	362
GR	702.7	433	703.9	508	706.9	543	714.7	588	717.9	603
QT	5	427	798	987	1450	967				
X1	20250	11	1256	1268	2328	2328	2328			
GR	727.6	1000	712.3	1100	711.2	1200	712.2	1256	709.0	1257
GR	708.8	1260	709.2	1265	712.4	1268	713.0	1300	716.0	1335
GR	727.6	1366								
QT	5	357	673	838	1240	838				
X1	22100	10	1197	1215	1850	1850	1850		-0.3	
GR	749.4	1000	738.3	1100	734.8	1197	731.0	1205	730.6	1207
GR	730.6	1209	735.5	1215	736.7	1262	741.0	1300	749.4	1358
X1	22450	0	0	0	50	50	50		+0.1	
X1	22150	17	1202	1206	50	50	50			
GR	749.4	1000	738.2	1097	734.7	1194	732.5	1202	731.5	1202.3
GR	730.8	1203	730.5	1204	730.8	1205	731.5	1205.7	732.5	1206
GR	735.4	1212	736.6	1259	737.1	1265	737.7	1300	741.1	1400
GR	746.1	1500	749.4	1562						
SB	0.9	1.5	2.5	0	4	0.01	12.6			
X1	22175	0	0	0	25	25	25			
X2			1	734.5						
BT	14	1000	749.4		1100	740.8		1200	736.3	
BT	1202	736.2	732.5	1202.3	736.2	733.5	1203	736.2	734.2	1204
BT	736.2	734.5	1205	736.2	734.2	1205.7	736.2	733.5	1206	736.2
BT	732.5	1300	737.7		1400	741.1		1500	746.1	
BT	1562	749.4								
X1	22225	10	1197	1215	50	50	50			
GR	749.4	1000	738.3	1100	734.8	1197	731.0	1205	730.6	1207
GR	730.6	1209	735.5	1215	736.7	1262	741.0	1300	749.4	1358
X1	22625	0	0	0	50	50	50		+0.1	
QT	5	190	364	460	700	460				
X1	25330	10	1189	1200	3105	3105	3105			
GR	784.9	1000	776.7	1100	767.0	1189	766.9	1193	766.6	1194

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GR 767.1 1196 767.0 1200 769.8 1233 781.1 1300 784.0 1320
EJ
T1 ROWAN COUNTY BASIN D STRM 1 DRAFT BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 50 YEAR FLOOD WATER SURFACE PROFILE
J1 -10 3 0.0043 656
J2 2 -1
T1 ROWAN COUNTY BASIN D STRM 1 DRAFT BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 100 YEAR FLOOD WATER SURFACE PROFILE
J1 -10 4 0.0043 660
J2 3 -1
T1 ROWAN COUNTY BASIN D STRM 1 DRAFT BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 500 YEAR FLOOD WATER SURFACE PROFILE
J1 -10 5 0.0043 662
J2 15 -1
EJ

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ER
THIS IS THE FLOODWAY FOR DRAFT BRANCH, ROWAN COUNTY
//DRAFTW JOB RTI.A25.P03078,MAK,M=1,T=2,P=100,PRTY=1
//*PROCLIB=RTI.MG.PROCLIB
// EXEC HEC2
//SYSIN DD *

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C
C 3
C 7780 RDNO ROWAN MILL ROAD MXLCEL 681.7 RDELV 684.8
C 17842 RDNO NEAL RD MXLCEL 705.3 RDELV 706.8
C 22175 RDNO CAURLE RD MXLCEL 734.5 RDELV 736.2
T1 ROWAN COUNTY BASIN D STRM 1 DRAFT BRANCH
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 100 YEAR FLOOD WATER SURFACE PROFILE
J1 -1 4 662.10
J2 0 -1
J3 38 39 40 41 43 42 1 2 26 53
J3 54 25 50 0 200
NC 0.085 0.085 0.06 0.1 0.3
QT 5 1500 2710 3190 4940 3190
ET 5 0 0 0 -10.4
X1 800 12 1778 1800 800 800 800
GR 677.1 1000 699.0 1300 667.4 1600 660.9 1700 661.3 1778
GR 653.0 1786 652.2 1789 653.1 1797 660.3 1800 660.1 2100
GR 659.3 2400 665.0 2500
QT 5 1295 2200 2610 4000 2610
X1 2400 17 335 355 1600 1600 1600
GR 669.2 0 666.7 70 663.2 102 663.6 165 663.5 290
GR 664.2 335 659.4 339 659.0 345 659.3 351 664.2 355

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GR 662.6	435	662.6	510	662.5	555	662.6	590	665.1	625
GR 669.2	640	673.8	655						
X1 4225	34	362	385	1825	1825	1825			
GR 686.3	0	677.5	71	680.3	82	678.7	87	672.7	207
GR 671.8	237	672.0	242	667.5	286	667.0	317	667.3	347
GR 667.2	357	666.3	362	662.3	367	662.2	372	662.5	376
GR 657.5	385	667.8	390	657.0	417	666.8	437	667.5	465
GR 667.1	522	666.7	457	667.4	672	666.7	692	667.7	707
GR 666.7	717	667.0	847	667.3	867	667.9	877	667.2	882
GR 667.5	885	670.2	889	674.0	901	678.0	925		
X1 5900	23	478	503	1675	1675	1675			
GR 685.7	0	677.4	120	676.7	151	677.4	176	675.4	183
GR 674.4	209	672.0	213	670.3	275	670.1	426	670.0	438
GR 670.7	467	670.7	478	663.8	484	663.5	489	664.3	496
GR 671.0	503	670.1	509	670.6	517	670.6	551	670.3	558
GR 674.5	560	675.3	583	679.5	641				
QT 5	1050	1030	2160	3150	2160				
X1 7650	17	379	405	1750	1750	1750			
GR 688.0	0	684.7	9	677.3	49	676.4	59	674.9	89
GR 674.4	159	674.3	329	675.6	379	669.0	385	669.1	389
GR 669.4	399	674.4	405	678.6	505	680.3	545	683.0	560
GR 680.2	565	684.2	605						
X1 7720	7	251.2	278.8	70	70	70			
GR 689.8	0	685.6	167	672.1	251.2	671.1	251.2	671.1	278.8
GR 672.1	278.8	684.2	362						
SB 1.25	1.5	2.5		27.6	2	271			
X1 7780	0	0	0	60	60	60			
X2		1	6A1.7						
BT 6	0	689.6	0	167	685.6	0	251.2	685.0	681.7
BT 278.8	684.8	681.7	362	684.2	0	429	688.4	0	
X1 7850	22	312	327	70	70	70			
GR 688.3	0	683.2	23	682.1	35	681.5	50	678.2	68
GR 676.1	92	674.6	177	674.8	242	675.2	302	675.3	312
GR 669.5	315	668.3	318	669.5	321	674.7	327	674.6	402
GR 674.0	437	675.1	502	674.6	509	676.0	512	677.2	543
GR 679.5	555	684.4	570						
X1 9600	25	790	808	1750	1750	1750			
GR 702.8	0	698.0	50	697.9	75	694.7	155	691.1	205
GR 681.7	475	680.7	490	679.9	545	680.1	575	679.7	605
GR 680.3	653	679.7	659	679.5	720	680.2	725	679.3	750
GR 680.7	790	675.7	795	676.2	801	675.8	805	680.7	808
GR 680.0	840	680.2	902	679.2	930	680.7	950	690.1	995
QT 5	975	1720	2040	3040	2040				
X1 98.00	0	0	0	200	200	200		2.3	
X1100.00	0	0	0	200	200	200		2.3	
ET 5					-5.4				
X1 10200	27	420	430	200	200	200			
GR 700.9	0	686.4	130	685.5	180	685.9	274	684.2	360
GR 685.0	370	685.5	410	686.2	420	682.9	421	682.7	424
GR 683.1	428	685.2	430	685.4	454	684.7	485	685.4	494

GR 684.7	511	684.8	559	685.2	592	685.4	661	686.1	670
GR 685.5	681	685.4	702	687.5	781	688.9	836	691.5	860
GF 694.0	921	700.7	984						
X1 12800	16	330	345	2600	2600	2600			
GR 699.0	0	689.0	160	687.6	165	687.2	270	687.6	330
GR 685.1	335	684.9	340	684.9	342	687.2	345	686.7	405
GR 687.5	545	688.9	575	689.5	605	694.1	725	694.3	755
GF 697.7	935								
GT 5	895	1590	1880	2900	1880				
X1 14300	18	210	225	1500	1500	1500			
GR 710.9	0	700.1	65	691.6	100	689.9	180	691.0	210
GR 686.4	215	687.9	219	687.8	223	691.0	225	689.7	255
GR 689.5	275	689.9	295	689.8	375	691.0	395	691.9	440
GR 692.6	445	695.1	520	702.6	570				
X1 15500	9	1590	1602	1200	1200	1200			
GR 711.7	1000	705.3	1200	696.0	1590	692.2	1593	692.2	1600
GR 696.5	1602	695.7	1780	711.7	1805				
X1 15950	20	543	556	450	450	450			
GR 711.8	0	701.5	248	699.1	344	697.8	376	697.4	402
GR 696.9	430	697.6	468	696.8	484	696.8	508	698.2	526
GR 698.9	543	694.9	546	693.9	550	694.1	554	698.9	556
GR 697.2	593	697.5	633	701.1	641	707.1	651	709.7	661
GT 5	525	970	1190	1720	1190				
X1 17720	16	288	308	1770	1770	1770			
GR 713.9	0	707.0	100	704.2	130	701.6	185	701.8	210
GR 703.4	280	700.6	295	700.3	305	702.9	308	702.8	340
GR 704.3	350	704.2	370	706.6	425	709.6	435	713.1	495
GR 717.3	530								
X1 17800	13	388	394	80	80	80			
GR 719.6	0	716.0	70	710.2	205	706.8	370	702.3	388
GR 700.2	388.9	699.3	391	700.2	393.1	702.3	394	706.9	412
GR 707.0	430	700.4	530	710.8	610				
SB 0.9	1.5	2.5		6	0.01	28.3			
X1 17842	0	0	0	42	42	42			
X2		1	705.3						
BT 13	0	719.8	0	70	716.0	0	205	710.2	0
BT 370	706.8	0	388	706.8	702.3	385.9	706.8	704.4	391
BT 706.8	705.3	393.1	706.8	704.4	394	706.8	702.3	412	706.9
BT 0	430	707.0	0	580	709.4	0	610	710.8	0
X1 17922	20	354	362	80	80	80			
GR 716.4	0	715.0	50	714.4	63	715.2	90	704.4	230
GR 705.8	234	706.3	241	706.0	254	703.3	260	702.6	293
GR 703.1	334	703.7	354	701.2	356	701.3	361	703.9	362
GR 702.7	435	703.9	509	706.9	543	714.7	583	717.9	603
GT 5	427	798	987	1450	987				
X1 20250	11	1256	1268	2328	2328	2528			
GR 727.6	1000	712.3	1100	711.2	1200	712.2	1256	709.0	1257
GR 708.9	1260	700.2	1265	712.4	1268	713.0	1300	716.0	1335
GR 727.5	1460								
GT 5	57	673	938	1240	838				

X1	22100	10	1197	1215	1850	1850	1850	-0.3		
GR	749.4	1000	738.3	1100	734.8	1197	731.0	1205	730.6	1207
GR	730.6	1200	735.5	1215	736.7	1262	741.0	1300	749.4	1358
X1	22450	1	0	0	50	50	50		+0.1	
X1	22150	17	1202	1206	50	50	50			
GR	749.4	1000	738.2	1097	734.7	1194	732.5	1202	731.5	1202.3
GR	730.3	1200	730.5	1204	730.8	1205	731.5	1205.7	732.5	1206
GR	735.4	1212	736.6	1259	737.1	1265	737.7	1300	741.1	1400
GR	746.1	1500	749.4	1562						
SB	0.9	1.5	2.5	0	4	0.01	12.6			
X1	22175	0	0	0	25	25	25			
X2			1	734.5						
BT	14	1000	749.4		1100	740.8		1200	736.3	
BT	1202	736.2	732.5	1202.3	736.2	733.5	1203	736.2	734.2	1204
BT	736.2	734.5	1205	736.2	734.2	1205.7	736.2	735.5	1206	736.2
BT	732.5	1300	737.7		1400	741.1		1500	746.1	
BT	1562	749.4								
X1	22225	10	1197	1215	50	50	50			
GR	749.4	1000	738.3	1100	734.8	1197	731.0	1205	730.6	1207
GR	730.6	1200	735.5	1215	736.7	1262	741.0	1300	749.4	1358
X1	22625	0	0	0	50	50	50		+0.1	
QT	5	190	364	460	700	460				
X1	25330	10	1189	1200	3105	3105	3105			
GR	784.0	1000	776.7	1100	767.0	1189	766.9	1193	766.6	1194
GR	767.1	1196	767.0	1200	769.8	1233	781.1	1300	784.0	1320

EJ  
T1 ROWAN COUNTY BASIN D STRM 1 DRAFT BRANCH  
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
T3 100 YEAR FLOODWAY  
J1 -10 6 663.10  
J2 15 -1  
EJ

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