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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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 1 ROWAN COUNTY EASIN D STRM 3  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IMP	HINW	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-1.	2.	0.	0.	0.007000	0.0	0.0	0.	702.100	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	1.000	34.000	3.000	4.000	27.000	28.000	26.000	0.0	0.0	0.0
NC	0.080	0.080	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	550.000	1025.000	1260.000	1825.000	1260.000	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	810.000	13.000	1300.000	1318.000	810.000	810.000	810.000	0.0	0.0	0.0
GR	719.000	1000.000	713.700	1100.000	706.500	1200.000	701.100	1300.000	697.400	1306.000
GR	697.100	1307.000	697.400	1310.000	701.300	1318.000	700.500	1500.000	700.800	1600.000
GR	704.200	1700.000	707.300	1800.000	719.000	2200.000	0.0	0.0	0.0	0.0
QT	5.000	435.000	820.000	1020.000	1500.000	1020.000	0.0	0.0	0.0	0.0
X1	3900.000	12.000	1250.000	1259.000	3090.000	3090.000	3090.000	0.0	0.0	0.0
GR	731.300	1000.000	725.200	1100.000	716.800	1124.000	715.900	1200.000	716.500	1250.000
GR	715.500	1255.000	715.100	1256.000	715.500	1257.000	716.700	1259.000	717.400	1300.000
GR	718.900	1319.000	731.300	1382.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	394.000	740.000	918.000	1355.000	918.000	0.0	0.0	0.0	0.0
X1	6000.000	10.000	1302.000	1314.000	2100.000	2100.000	2100.000	0.0	-3.200	0.0
GR	743.300	1000.000	738.300	1100.000	733.000	1200.000	730.800	1300.000	731.100	1302.000
GR	727.600	1307.000	727.300	1309.000	727.500	1310.000	731.300	1314.000	743.300	1356.000
X1	6050.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.800	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	6100.000	21.000	1294.500	1299.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	744.100	1000.000	736.700	1088.000	731.400	1188.000	729.200	1288.000	728.200	1294.500
GR	726.700	1295.000	725.900	1296.000	725.700	1297.000	725.900	1298.000	726.700	1299.000
GR	728.200	1299.500	729.700	1302.000	733.000	1317.000	732.600	1400.000	732.700	1500.000
GR	731.600	1600.000	731.000	1700.000	731.300	1800.000	734.600	1900.000	738.100	2000.000
GR	744.100	2100.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	5.000	0.010	19.600	0.0	0.0	0.0
X1	6137.000	0.0	0.0	0.0	37.000	37.000	37.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	730.700	0.0	0.0	0.0	0.0	0.0	0.0
BT	19.000	1000.000	744.100	0.0	1100.000	738.800	0.0	1200.000	734.700	0.0
BT	1294.500	733.000	728.200	1295.000	733.000	729.700	1296.000	733.000	730.500	1297.000
BT	733.000	730.700	1298.000	733.000	730.500	1299.000	733.000	729.700	1299.500	733.000
BT	728.200	1300.000	733.000	0.0	1400.000	732.600	0.0	1500.000	732.700	0.0





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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 ROWAN COUNTY BASIN D STRM 3  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.007000	0.0	0.0	0.	703.100	0.0
J2	NPROF	IPLT	NRFS	XSECV	XSECH	FM	ALLDC	IBW	CHNIM	ITRAGE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

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	XNOH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IOC	ICONT	CORAR	TOPWID	ENDST
810.00	5.05	702.15	0.0	703.10	702.26	0.12	0.0	0.0	701.10
1025.	10.	267.	747.	10.	61.	404.	0.	0.	701.30
0.0	1.01	4.36	1.85	0.080	0.060	0.080	0.0	697.10	1280.57
0.007007	810.	810.	810.	0	0	6	0.0	359.11	1639.68
3900.00	3.57	718.67	0.0	0.0	718.74	0.07	16.47	0.00	716.50
820.	630.	75.	116.	304.	25.	76.	31.	20.	716.70
0.41	2.07	2.97	1.51	0.080	0.060	0.080	0.060	715.10	1118.66
0.003965	3090.	3090.	3090.	6	0	1	0.0	197.39	1316.05
6000.00	6.21	730.31	0.0	0.0	730.58	0.27	11.78	0.06	727.90
740.	407.	316.	16.	169.	55.	9.	47.	28.	728.10
0.57	2.42	5.70	1.84	0.080	0.060	0.080	0.060	724.10	1190.39
0.008982	2100.	2100.	2100.	3	0	1	0.0	131.71	1322.10
6050.00	5.87	730.77	0.0	0.0	731.21	0.44	0.58	0.05	728.70
740.	362.	355.	14.	132.	51.	6.	47.	28.	728.90
0.57	2.74	7.09	2.15	0.080	0.060	0.080	0.060	724.90	1196.74
0.015371	50.	50.	50.	2	0	1	0.0	124.12	1320.87

CCHV= 0.100 CEHV= 0.300

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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 HEC2 VERSION UPDATED JAN 1975  
 ERRDR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATION3 52,53,54,55,56,57,58  
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T1 ROWAN COUNTY BASIN D STRM 3  
 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 0 NSEL FQ  
 -10. 4. 0. 0. 0.007000 0.0 0.0 0. 705.100 0.0

J2 NPROF IPLOT PREVS XSECV XSECH EN ALLDC IBW CHNIN ITRAGE  
 3.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

CCHV= 0.100 CEHV= 0.300

SECNO	DEPTH	CWSEL	CRHS	NSELK	EG	HV	HL	QLOSS	BANK ELEV
G	QLOB	QCH	QROB	ALOB	AACH	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

810.00	5.25	702.35	0.0	705.10	702.48	0.12	0.0	0.0	701.10
1260.	17.	294.	950.	15.	65.	470.	0.	0.	702.30
0.0	1.13	4.52	2.02	0.080	0.060	0.060	0.0	697.10	1279.78
0.006969	810.	810.	810.	0	0	5	0.0	368.91	1645.70

3900.00	3.86	718.96	0.0	0.0	719.04	0.08	16.56	0.00	716.50
1020.	773.	89.	158.	343.	28.	94.	36.	20.	716.70
0.38	2.25	3.20	1.69	0.080	0.060	0.080	0.060	718.10	1117.83
0.004039	3090.	3090.	3090.	6	0	1	0.0	201.48	1319.31

6000.00	6.53	730.63	0.0	0.0	730.90	0.27	11.80	0.06	727.90
918.	546.	349.	23.	205.	59.	12.	54.	28.	728.10
0.53	2.66	3.89	1.99	0.080	0.060	0.080	0.060	724.10	1184.39
0.008775	2100.	2100.	2100.	3	0	1	0.0	138.88	1323.27

6050.00	6.17	731.07	0.0	0.0	731.50	0.43	0.56	0.05	728.70
918.	501.	397.	20.	165.	95.	9.	54.	29.	728.90
0.54	3.04	7.21	2.31	0.080	0.060	0.080	0.060	724.90	1191.00
0.014507	50.	50.	50.	2	0	1	0.0	130.99	1321.98

CCHV= 0.100 CEHV= 0.300

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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 HEC2 VERSION UPDATED JAN 1975  
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T1 ROWAN COUNTY BASIN D STRM 3  
 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.	3,307000	0.0	0.0	0.	706,100	0.0
J2	WPROF	WPLT	WPRFS	XSECV	XSECH	EM	ALLDC	JOB	CHNIN	ITRACE
	15,000	0.0	-1,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CERV= 0.300

SLCNO	DEPTH	CHSEL	CRINS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AKOB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLORL	XLCH	XLOB2	JTRIAL	IOC	ICONT	CORAR	TOPWID	SEMOST
310.00	5.68	702.78	0.0	706.10	702.92	0.14	0.0	0.0	701.10
1825.	36.	352.	1437.	26.	73.	613.	0.	0.	701.30
0.0	1.37	4.84	2.35	0.080	0.060	0.080	0.0	697.10	1268.91
0.006913	210.	210.	210.	0	0	5	0.0	389.31	1658.21
3900.00	4.46	719.55	0.0	0.0	719.67	0.11	16.75	0.00	716.50
1500.	1108.	122.	270.	423.	33.	131.	46.	21.	716.70
0.33	2.62	3.67	2.06	0.080	0.060	0.080	0.060	715.10	1116.10
0.004177	3090.	3090.	3090.	4	0	1	0.0	205.27	1322.38
6000.00	7.19	731.29	0.0	0.0	731.58	0.29	11.86	0.05	727.90
1355.	851.	422.	42.	286.	67.	19.	69.	30.	728.10
0.47	3.10	6.27	2.27	0.080	0.060	0.080	0.060	724.10	1171.62
0.008401	2100.	2100.	2100.	3	0	1	0.0	153.29	1325.71
6050.00	6.82	731.72	0.0	0.0	732.14	0.42	0.52	0.04	728.70
1355.	848.	469.	38.	240.	63.	15.	70.	30.	728.90
0.48	3.53	7.47	2.61	0.080	0.060	0.080	0.060	724.90	1178.87
0.012463	50.	50.	50.	2	0	1	0.0	145.47	1324.34

CCHV= 0.100 CERV= 0.300

3265 DIVIDED FLOW

6100.00	6.45	732.15	0.0	0.0	732.32	0.17	0.15	0.03	728.20
1355.	723.	152.	479.	213.	29.	233.	70.	30.	728.20
0.48	3.39	5.23	2.06	0.025	0.025	0.025	0.060	725.70	1173.75

3500.000

435.000

717.000

0.0

0.0

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500 YEAR FLOOD WATER SUR

*W.L.* *W.L.*

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	HIGH EL OF GROUND	DISCHARGE (CFS)	CASEL TO	EG	TOPWID	STENEL	STENCH	VCH
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810.00	110.00	0.0	0.0	697.10	550.00	701.65	65.71	701.76	335.38	0.0	0.0	3.92
810.00	810.00	0.0	0.0	697.10	1025.00	702.15	122.45	702.26	359.11	0.0	0.0	4.36
810.00	810.00	0.0	0.0	697.10	1260.00	702.35	150.94	702.47	368.91	0.0	0.0	4.52
810.00	810.00	0.0	0.0	697.10	1325.00	702.72	215.49	702.92	389.31	0.0	0.0	4.84

3900.00	3090.00	0.0	0.0	715.10	435.00	717.96	70.15	718.01	186.59	0.0	0.0	2.42
3900.00	3090.00	0.0	0.0	715.10	820.00	718.67	130.23	719.74	197.39	0.0	0.0	2.97
3900.00	3090.00	0.0	0.0	715.10	1020.00	718.96	160.50	719.04	201.48	0.0	0.0	3.20
3900.00	3090.00	0.0	0.0	715.10	1500.00	719.56	232.10	719.67	206.27	0.0	0.0	3.67

6000.00	2100.00	0.0	0.0	724.10	394.00	729.52	40.90	729.78	106.26	0.0	0.0	3.11
6000.00	2100.00	0.0	0.0	724.10	740.00	730.31	78.08	730.58	131.71	0.0	0.0	5.70
6000.00	2100.00	0.0	0.0	724.10	918.00	730.63	98.00	730.90	138.88	0.0	0.0	6.09
6000.00	2100.00	0.0	0.0	724.10	1355.00	731.29	147.84	731.58	153.89	0.0	0.0	6.27

6050.00	50.00	0.0	0.0	724.90	394.00	729.95	31.22	730.43	90.46	0.0	0.0	6.31
6050.00	50.00	0.0	0.0	724.90	740.00	730.77	59.65	731.21	124.12	0.0	0.0	7.09
6050.00	50.00	0.0	0.0	724.90	918.00	731.07	76.22	731.50	130.99	0.0	0.0	7.21
6050.00	50.00	0.0	0.0	724.90	1355.00	731.72	118.55	732.14	145.47	0.0	0.0	7.47

6100.00	50.00	0.0	0.0	725.70	394.00	730.57	58.68	731.09	80.15	0.0	0.0	7.80
6100.00	50.00	0.0	0.0	725.70	740.00	731.25	118.50	731.71	241.81	0.0	0.0	3.01
6100.00	50.00	0.0	0.0	725.70	918.00	731.48	156.72	731.87	308.32	0.0	0.0	7.74
6100.00	50.00	0.0	0.0	725.70	1355.00	732.15	371.71	732.32	415.78	0.0	0.0	5.23

6137.00	37.00	731.00	730.70	725.70	394.00	731.81	246.26	731.34	366.13	0.0	0.0	2.20
6137.00	37.00	731.00	730.70	725.70	740.00	732.25	412.50	732.29	429.59	0.0	0.0	2.50
6137.00	37.00	731.00	730.70	725.70	918.00	732.43	497.32	732.48	455.76	0.0	0.0	2.73
6137.00	37.00	731.00	730.70	725.70	1355.00	732.79	701.97	732.85	640.34	0.0	0.0	2.97

6187.00	50.00	0.0	0.0	726.50	394.00	731.54	29.91	732.02	28.04	0.0	0.0	6.52
6187.00	50.00	0.0	0.0	726.50	740.00	732.17	50.07	732.79	118.69	0.0	0.0	3.18
6187.00	50.00	0.0	0.0	726.50	918.00	732.41	61.61	733.05	124.97	0.0	0.0	2.57
6187.00	50.00	0.0	0.0	726.50	1355.00	732.82	34.79	733.59	134.25	0.0	0.0	9.74

6237.00	50.00	0.0	0.0	727.30	394.00	732.41	31.78	732.84	91.49	0.0	0.0	6.23
6237.00	50.00	0.0	0.0	727.30	740.00	733.27	64.24	733.65	126.11	0.0	0.0	6.68
6237.00	50.00	0.0	0.0	727.30	918.00	733.53	78.75	733.93	131.95	0.0	0.0	7.02
6237.00	50.00	0.0	0.0	727.30	1355.00	734.09	116.90	734.52	144.97	0.0	0.0	7.55

9200.00	2963.00	0.0	0.0	758.20	92.00	761.06	18.01	761.21	71.21	0.0	0.0	2.21
9200.00	2963.00	0.0	0.0	758.20	196.00	761.63	32.01	761.71	95.56	0.0	0.0	3.04
9200.00	2963.00	0.0	0.0	758.20	250.00	761.95	42.20	762.03	108.92	0.0	0.0	3.26
9200.00	2963.00	0.0	0.0	758.20	430.00	762.52	66.52	762.62	133.32	0.0	0.0	3.80

SECTION NUMBER	DISCHARGE CFS	CASEL	CASEL DIFF EACH 0	CASEL DIFF EACH SECTION	CASEL WSELE	TOPWID	T.W. DIFF	LENGTH
810.000	550.000	701.652	0.0	0.0	0.0	335.358	0.0	810.000
810.000	1025.000	702.148	0.496	0.0	0.0	359.115	-23.752	810.000
810.000	1260.000	702.353	0.205	0.0	0.0	368.911	-33.553	810.000
810.000	1325.000	702.779	0.426	0.0	0.0	389.306	-53.946	810.000



3500,000	435,000	717,954	0.0	16,312	0.0	186,593	0.0	3090,000
3900,000	820,000	718,674	0.709	16,526	0.0	197,389	-10,796	3090,000
3900,000	1020,000	718,959	0.286	16,606	0.0	201,481	-14,889	3090,000
3900,000	1500,000	719,564	0.604	16,783	0.0	206,275	-19,682	3090,000
6000,000	394,000	729,516	0.0	11,551	0.0	106,262	0.0	2100,000
6000,000	740,000	730,312	0.796	11,638	0.0	131,709	-25,447	2100,000
6000,000	910,000	730,628	0.816	11,569	0.0	138,877	-32,615	2100,000
6000,000	1355,000	731,293	0.665	11,729	0.0	153,893	-47,631	2100,000
6050,000	394,000	729,987	0.0	0,472	0.0	90,480	0.0	50,000
6050,000	740,000	730,766	0.778	0,454	0.0	124,124	-33,644	50,000
6050,000	918,000	731,073	0.308	0,445	0.0	130,989	-40,509	50,000
6050,000	1355,000	731,717	0.644	0,424	0.0	145,474	-54,994	50,000
6100,000	394,000	730,567	0.0	0,560	0.0	80,149	0.0	50,000
6100,000	740,000	731,254	0.687	0,489	0.0	241,012	-161,663	50,000
6100,000	918,000	731,476	0.222	0,403	0.0	308,316	-228,157	50,000
6100,000	1355,000	732,153	0.677	0,436	0.0	418,781	-335,632	50,000
6137,000	394,000	731,811	0.0	1,244	0.0	366,125	0.0	37,000
6137,000	740,000	732,250	0.439	0,996	0.0	429,593	-63,468	37,000
6137,000	918,000	732,430	0.181	0,954	0.0	455,759	-89,634	37,000
6137,000	1355,000	732,795	0.364	0,642	0.0	640,300	-274,215	37,000
6187,000	394,000	731,539	0.0	-0,272	0.0	88,040	0.0	50,000
6187,000	740,000	732,168	0.629	-0,082	0.0	118,688	-30,649	50,000
6187,000	918,000	732,410	0.242	-0,021	0.0	124,972	-36,933	50,000
6187,000	1355,000	732,821	0,411	0,026	0.0	134,227	-46,187	50,000
6237,000	394,000	732,412	0.0	0,873	0.0	91,487	0.0	50,000
6237,000	740,000	733,269	0,857	1,101	0.0	126,110	-64,623	50,000
6237,000	918,000	733,525	0,256	1,116	0.0	131,964	-40,477	50,000
6237,000	1355,000	734,091	0,555	1,270	0.0	144,973	-53,486	50,000
9200,000	92,000	761,059	0.0	28,647	0.0	71,212	0.0	2963,000
9200,000	196,000	761,627	0,568	28,358	0.0	95,577	-24,365	2963,000
9200,000	260,000	761,949	0,322	26,424	0.0	108,916	-37,705	2963,000
9200,000	430,000	762,517	0,568	28,427	0.0	133,324	-62,112	2963,000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	31,869	0.0
2	0.0	0.0	36,308	4,438
3	0.0	0.0	37,840	5,970
4	0.0	0.0	40,818	8,949



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HEC2 VERSION UPDATED JAN 1975  
ERROR CORRECTIONS 01, 02, 03, 04, 05, 06, 07, 08  
MODIFICATIONS 52, 53, 54, 55, 56, 57, 58  
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EJ

1		1
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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 CO. BASIN B STREAM 3 UNNAMED STREAM  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	ICIR	STRT	METRIC	HVINS	G	WSEL	FQ
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	708.340	0.0
J2	NPROF	IPLT	PRFS	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	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	920.000	1420.000	1950.000	2750.000	1950.000	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	1085.000	12.000	1275.000	1300.000	1045.000	1085.000	1085.000	0.0	0.0	0.0
GR	721.000	1000.000	719.500	1050.000	714.400	1060.000	712.600	1100.000	708.200	1200.000
GR	707.900	1275.000	699.900	1278.000	679.600	1286.000	699.900	1294.000	704.900	1300.000
GR	707.600	1321.000	721.900	1400.000	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	875.000	1560.000	1870.000	2640.000	1870.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	7.100	1340.000	1440.000	0.0	0.0
X1	4270.000	12.000	1400.000	1431.000	3185.000	3185.000	3185.000	0.0	-1.400	0.0
GR	724.000	1000.000	722.000	1100.000	720.900	1200.000	720.000	1300.000	718.900	1400.000
GR	714.500	1408.000	713.500	1418.000	714.500	1428.000	720.100	1431.000	721.800	1500.000
GR	731.700	1600.000	735.700	1666.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	4370.000	14.000	1401.000	1432.000	100.000	100.000	100.000	0.0	0.0	0.0

ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	4370.000	14.000	1401.000	1432.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	729.400	1000.000	726.500	1100.000	724.500	1200.000	721.500	1300.000	721.200	1400.000
GR	717.300	1401.000	714.100	1406.000	712.800	1413.000	714.100	1426.000	717.300	1432.000
GR	723.100	1500.000	729.000	1600.000	733.600	1700.000	738.900	1800.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	32.000	0.010	265.100	0.0	0.0	0.0

RDN0 NCSR 1002.0      MXLCEL 722.8      RDELV 724.7

X1	4391.000	0.0	0.0	0.0	21.000	21.000	21.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	722.800	724.700	0.0	0.0	0.0	0.0	0.0
BT	13.000	1000.000	729.400	0.0	1100.000	726.500	0.0	1200.000	724.500	0.0
BT	1300.000	723.600	0.0	1400.000	724.700	0.0	1400.900	724.700	0.0	1401.000
BT	724.700	722.000	1432.000	724.700	722.800	1432.100	724.700	0.0	1500.000	725.000
BT	0.0	1600.000	729.000	0.0	1700.000	733.600	0.0	1800.000	738.900	0.0
ET	0.0	0.0	0.0	0.0	0.0	7.100	1340.000	1440.000	0.0	0.0

X1	4491.000	12.000	1400.000	1431.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	724.000	1000.000	722.000	1100.000	720.900	1200.000	720.000	1300.000	718.900	1400.000
GR	714.500	1408.000	713.500	1418.000	714.500	1428.000	720.100	1431.000	721.800	1500.000
GR	731.700	1600.000	735.700	1666.000	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	830.000	1460.000	1750.000	2480.000	1750.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	5785.000	0.0	0.0	0.0	1294.000	1294.000	1294.000	0.0	4.200	0.0
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IHC215I CONVERT - ILLEGAL DECIMAL CHARACTER S

ET			-5.4		SAVE	
TRACEBACK	ROUTINE CALLED FROM	ISN	REG. 14	REG. 15	REG. 0	REG. 1
	IRCOM		0009C090	00080B28	00000009	0009C074
	H2MAIN	0005	5209773A	00097778	FD000008	00000000
	MAIN		0001224A	01097610	FD000008	001137F8

ENTRY POINT= 01097610

STANDARD FIXUP TAKEN . EXECUTION CONTINUING

IHC215I CONVERT - ILLEGAL DECIMAL CHARACTER A

MAIN

0001224A 01097610 FD000008 001137F8

ENTRY POINT= 01097610

STANDARD FIXUP TAKEN , EXECUTION CONTINUING

IHC215I CONVERT - ILLEGAL DECIMAL CHARACTER A

ET -5.4 OAVE

TRACEBACK ROUTINE CALLED FROM ISN REG. 14 REG. 15 REG. 0 REG. 1

IBCOM 0009C090 0008DB28 00000009 0009C074

H2MAIN 0005 5209773A 00097778 FD000008 00000000

MAIN 0001224A 01097610 FD000008 001137F8

ENTRY POINT= 01097610

STANDARD FIXUP TAKEN , EXECUTION CONTINUING

IHC215I CONVERT - ILLEGAL DECIMAL CHARACTER V

ET -5.4 OAVE

TRACEBACK ROUTINE CALLED FROM ISN REG. 14 REG. 15 REG. 0 REG. 1

IBCOM 0009C090 0008DB28 00000009 0009C074

H2MAIN 0005 5209773A 00097778 FD000008 00000000

MAIN 0001224A 01097610 FD000008 001137F8

ENTRY POINT= 01097610

STANDARD FIXUP TAKEN , EXECUTION CONTINUING

ET 0.0 0.0 0.0 0.0 0.0 -5.400 0.0 0.0 0.0 0.0

X1	7939.000	13.000	1400.000	1414.000	1295.000	1295.000	1295.000	0.0	0.0	0.0
GR	744.500	1000.000	739.200	1100.000	733.000	1200.000	728.700	1300.000	729.200	1400.000
GR	722.200	1403.000	721.900	1406.000	722.300	1407.000	729.500	1414.000	728.700	1500.000
GR	729.200	1580.000	733.800	1600.000	735.300	1605.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
JT	5.000	670.000	1190.000	1450.000	2040.000	1450.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0



ENTRY POINT= 01097610

STANDARD FIXUP TAKEN , EXECUTION CONTINUING

ET 0.0 0.0 0.0 0.0 0.0 -5.400 0.0 0.0 0.0 0.0

X1	7080.000	13.000	1400.000	1414.000	1295.000	1295.000	1295.000	0.0	0.0	0.0
GR	744.500	1000.000	739.200	1100.000	733.000	1200.000	728.700	1300.000	729.200	1400.000
GR	722.200	1403.000	721.900	1406.000	722.300	1407.000	729.500	1414.000	728.700	1500.000
GR	729.200	1580.000	733.800	1600.000	735.300	1605.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	670.000	1190.000	1450.000	2040.000	1450.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	9730.000	10.000	1280.000	1310.000	2650.000	2650.000	2650.000	0.0	-1.400	0.0
GR	752.500	1000.000	740.800	1100.000	736.700	1280.000	734.700	1284.000	734.300	1293.000
GR	734.700	1302.000	736.700	1310.000	743.300	1328.000	750.600	1500.000	752.400	1513.000

X1	9830.000	14.000	1532.000	1592.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	762.100	1000.000	751.700	1200.000	744.300	1400.000	738.100	1500.000	744.000	1532.000
GR	743.000	1534.000	740.400	1542.000	734.600	1553.000	733.600	1558.000	735.600	1566.000
GR	737.700	1568.000	744.000	1592.000	742.000	1600.000	762.100	1800.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	60.000	0.100	604.600	0.0	0.0	0.0

RDN NCSR 1346

MXLCEL 746.4

ROELV 747.6

X1	9855.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	746.400	747.400	0.0	0.0	0.0	0.0	0.0
BT	11.000	1000.000	762.100	0.0	1200.000	751.700	0.0	1400.000	748.300	0.0
BT	1500.000	747.400	0.0	1531.900	747.600	0.0	1532.000	747.600	746.200	1592.000
BT	747.900	746.400	1592.100	747.900	0.0	1600.000	748.000	0.0	1700.000	752.900
BT	0.0	1800.000	762.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	7.100	1264.000	1314.000	0.0	0.0

X1	9955.000	10.000	1280.000	1310.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	752.500	1000.000	740.800	1100.000	736.700	1280.000	734.700	1284.000	734.300	1293.000
GR	734.700	1302.000	736.700	1310.000	743.300	1328.000	750.600	1500.000	752.400	1513.000
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	320.000	581.000	729.000	1020.000	729.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	12570.000	12.000	1121.000	1131.000	2615.000	2615.000	2615.000	0.0	-12.000	0.0
GR	770.200	1000.000	762.500	1050.000	756.600	1072.000	755.600	1100.000	754.700	1121.000
GR	754.000	1124.000	754.000	1125.000	754.000	1126.000	757.400	1131.000	761.000	1200.000



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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

100 YEAR FLOOD WATER SUR

SUMMARY PRINTOUT

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
A	1085.000	1085.00	0.0	0.0	1950.00	699.60	708.34	706.01	9.63	1196.81	1266 1325.09	253.80	0.0
	1085.000	1085.00	0.0	0.0	1950.00	699.60	709.34	0.0	9.22	1275.00	1300.00	211.41	1.00
B	4270.000	3185.00	0.0	0.0	1870.00	712.10	720.01	0.0	6.54	1153.28	1410 1484.34	538.16	0.0
	4270.000	3185.00	0.0	0.0	1870.00	712.10	720.53	0.0	6.74	1340.00	1440.00	392.42	0.52
	4370.000	100.00	0.0	0.0	1870.00	712.80	719.45	719.20	11.13	1400.45	1457.33	189.53	0.0
	4370.000	100.00	0.0	0.0	1870.00	712.80	720.18	0.0	10.17	1401.00	1432.00	183.87	0.73
	4391.000	21.00	724.70	722.80	1870.00	712.80	719.45	0.0	11.15	1400.45	1457.26	189.21	0.0
	4391.000	21.00	724.70	722.80	1870.00	712.80	720.45	0.0	8.99	1400.19	1468.98	252.00	1.00
C	4491.000	100.00	0.0	0.0	1870.00	713.50	721.37	720.72	6.67	1157.64	1413 1482.39	522.44	0.0
	4491.000	100.00	0.0	0.0	1870.00	713.50	721.45	0.0	7.58	1340.00	1440.00	343.97	0.08
	5785.000	1294.00	0.0	0.0	1750.00	717.70	725.10	724.72	7.66	1201.05	1463.09	382.86	0.0
	5785.000	1294.00	0.0	0.0	1750.00	717.70	725.97	0.0	8.36	1400.00	1431.00	209.33	0.87
D	7080.000	1295.00	0.0	0.0	1750.00	721.90	730.68	0.0	6.70	1253.92	1414 1586.44	580.98	0.0
	7080.000	1295.00	0.0	0.0	1750.00	721.90	731.49	0.0	6.18	1322.62	1516.49	536.29	0.80
	9665 9730.000	2650.00	0.0	0.0	1450.00	732.90	738.99	0.0	5.43	1114.03	1320.06	479.63	0.0

	5785.000	1294.00	0.0	0.0	1750.00	717.70	725.10	724.72	7.66	1201.05	1463.09	382.86	0.0
	5785.000	1294.00	0.0	0.0	1750.00	717.70	725.97	0.0	8.36	1400.00	1431.00	209.33	0.87
D	7080.000	1295.00	0.0	0.0	1750.00	721.90	730.68	0.0	6.70	1253.92	1586.44	580.98	0.0
	7080.000	1295.00	0.0	0.0	1750.00	721.90	731.49	0.0	6.18	1322.62	1516.49	536.29	0.80
	9665												
E	9730.000	2650.00	0.0	0.0	1450.00	732.90	738.99	0.0	5.43	1114.03	1320.06	479.63	0.0
	9730.000	2650.00	0.0	0.0	1450.00	732.90	739.47	0.0	6.78	1260.25	1311.51	260.29	0.48
9765	9830.000	100.00	0.0	0.0	1450.00	733.60	740.48	740.48	9.39	1451.62	1578.59	195.10	0.0
	9830.000	100.00	0.0	0.0	1450.00	733.60	740.44	740.44	10.92	1541.87	1578.45	132.74	-0.04
LIMIT OF DETAILED STUDY													
9790	9855.000	25.00	747.40	746.40	1450.00	733.60	740.49	0.0	9.37	1451.50	1578.61	195.74	0.0
	9855.000	25.00	747.40	746.40	1450.00	733.60	741.49	0.0	6.49	1445.38	1582.42	298.25	1.00
	9890												
F	9955.000	100.00	0.0	0.0	1450.00	734.30	741.87	0.0	3.26	1090.83	1324.11	810.37	0.0
	9955.000	100.00	0.0	0.0	1450.00	734.30	742.17	0.0	5.57	1264.00	1314.00	319.17	0.29
*G	12570.000	2615.00	0.0	0.0	729.00	742.00	745.30	745.30	7.96	1069.40	1130.85	102.98	0.0
	12570.000	2615.00	0.0	0.0	729.00	742.00	747.12	0.0	8.02	1108.19	1133.16	98.51	1.82
*	12690.000	120.00	0.0	0.0	729.00	748.00	751.96	751.96	8.36	1338.07	1425.52	115.08	0.0
*	12690.000	120.00	0.0	0.0	729.00	748.00	752.88	752.88	10.57	1377.61	1407.55	79.42	0.92

	SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
	12733.000	43.00	763.20	753.00	729.00	748.00	751.97	0.0	8.32	1338.04	1425.59	115.50	0.0
	12733.000	43.00	999999.00	0.0	729.00	748.00	752.90	752.90	10.45	1377.55	1407.58	80.24	0.93
H*	12853.000	120.00	0.0	0.0	729.00	754.00	757.32	757.32	7.80	1069.30	1130.89	104.66	0.0
*	12853.000	120.00	0.0	0.0	729.00	754.00	758.12	758.12	10.33	1107.93	1133.27	74.25	0.80

SUMMARY OF ERRORS

CAUTION SECNO= 9830.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 9830.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 9830.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
 CAUTION SECNO= 9830.000 PROFILE= 1 CRITICAL DEPTH ASSUMED



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

STATION	FLOODWAY WIDTH (FT)	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
				WITH FLOODWAY	WITHOUT FLOODWAY	
A 1085.000	25.	211.	9.2	709.3	709.3	1.0
B 4270.000	100.	392.	4.8	720.5	720.0	0.5
4370.000	31.	184.	10.2	720.2	719.5	0.7
4391.000	69.	252.	7.4	720.5	719.5	1.0
C 4491.000	100.	344.	5.4	721.5	721.4	0.1
5785.000	31.	209.	8.4	726.0	725.1	0.9
D 7080.000	194.	536.	3.3	731.5	730.7	0.8
<del>59730.000</del>	51.	260.	5.6	739.5	739.0	0.5
9830.000	37.	133.	10.9	740.5	740.5	0.0
9855.000	117.	298.	4.9	741.5	740.5	1.0
<del>9955.000</del>	50.	319.	4.5	742.2	741.9	0.3
F 12570.000	25.	99.	7.4	747.1	745.3	1.8
12690.000	30.	79.	9.2	752.9	752.0	0.9
12733.000	30.	80.	9.1	752.9	752.0	0.9
12853.000	25.	74.	9.8	758.1	757.3	0.8

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 REC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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1 ROWAN COUNTY BASIN A STREAM 3  
 12 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES H-G JOB NO. 6919  
 13 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINW	TOIR	STRT	METRIC	AVINS	G	VSBL	FR
	-1.	2.	0.	0.	0.014000	0.0	0.0	0.	667.900	0.0
J2	NPKOP	IFLOT	PREVS	XSECV	XSECH	FR	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	1.000	34.000	3.000	4.000	27.000	28.000	26.000	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
BT	5.000	443.000	634.000	1032.000	1519.000	1032.000	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	400.000	12.000	1300.000	1323.000	400.000	400.000	400.000	0.0	0.0	0.0
GR	682.700	1090.000	671.300	1100.000	667.500	1160.000	667.900	1200.000	667.100	1300.000
GR	663.100	1506.000	662.900	1311.000	663.300	1311.000	663.260	1316.000	667.100	1323.000
SR	669.000	1369.000	682.700	1401.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	306.000	596.000	752.000	1139.000	752.000	0.0	0.0	0.0	0.0
X1	2390.000	9.000	1116.000	1130.000	1900.000	1900.000	1900.000	0.0	-3.000	0.0
GR	714.700	1000.000	697.000	1100.000	696.600	1116.000	693.300	1119.000	693.100	1123.000
GR	693.260	1127.000	695.100	1130.000	699.900	1192.000	714.700	1241.000	0.0	0.0
X1	2350.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.700	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	2400.000	15.000	1240.000	1252.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	724.700	1000.000	716.400	1100.000	707.300	1200.000	693.500	1248.000	692.100	1248.600
SR	691.560	1250.000	692.100	1251.400	693.500	1252.000	695.300	1279.000	695.900	1300.000
GR	706.700	1350.000	716.400	1496.000	724.700	1496.000	0.0	0.0	0.0	0.0
SR	0.900	1.500	2.500	0.0	0.000	0.010	12.360	0.0	0.0	0.0
X1	2488.000	0.0	0.0	0.0	88.000	88.000	88.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	695.500	0.0	0.0	0.0	0.0	0.0	0.0
BT	11.000	1000.000	721.700	0.0	1100.000	716.400	0.0	1200.000	707.100	0.0
BT	1248.000	707.300	693.500	1248.600	709.200	696.900	1250.000	709.200	695.500	1251.400
BT	709.200	694.500	1252.000	709.200	693.500	1300.000	710.500	0.0	1400.000	717.000
BT	0.0	1496.000	724.700	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
X1	2538.000	9.000	1116.000	1130.000	50.000	50.000	50.000	0.0	-0.800	0.0
GR	714.300	1000.000	697.000	1100.000	696.600	1116.000	693.300	1119.000	693.100	1123.000
GR	693.260	1127.000	695.100	1130.000	699.900	1192.000	714.700	1241.000	0.0	0.0
X1	2588.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.600	0.0
BT	5.000	216.000	431.000	551.000	857.000	551.000	0.0	0.0	0.0	0.0



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 REC. VERSION: UPDATED JAN 1975  
 ERROR CORRECTIONS: 01,02,03,04,05,06,07,08  
 MODIFICATIONS: 52,53,54,55,56,57,58  
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11 ROWAN COUNTY BASIN A STREAM 3  
 12 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 13 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IND	DIR	TDIR	STRT	METRIC	HVINS	0	WSLL	FO
	-10.	3.	0.	0.	0.014000	0.0	0.0	0.	668.900	0.0
J2	WPROF	IPLO1	PREVS	XSECV	XSECH	FN	ALLOD	TDW	CHN1P	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCMV= 0.100 CENV= 0.300

1720 ASSUMED CRITICAL DEPTH

SECTNO	DEPTH	WSSEL	CR1WS	WSSEL	EG	HV	HL	LOSS	BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOPL	XLOH	XLOBP	TRIAL	IDC	ICONT	CORAR	TOPWID	CRUST
000.00	5.36	668.26	668.26	668.90	668.90	0.55	0.0	0.0	667.10
034.	157.	662.	15.	102.	92.	11.	0.	0.	667.10
0.0	1.53	67.20	1.35	0.055	0.055	0.055	0.0	662.90	1148.06
0.005227	400.	400.	400.	0	0	1	0.0	194.64	1342.70

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECTNO	DEPTH	WSSEL	CR1WS	WSSEL	EG	HV	HL	LOSS	BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOPL	XLOH	XLOBP	TRIAL	IDC	ICONT	CORAR	TOPWID	CRUST
2300.00	4.44	693.70	693.70	0.0	694.60	0.90	12.00	0.0	692.80
590.	25.	661.	100.	15.	53.	39.	7.	6.	691.30
0.07	1.98	6.71	2.50	0.055	0.055	0.055	0.055	689.30	1076.93
0.000581	1000.	1000.	1000.	00	15	1	0.0	64.64	1161.57

3605 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY



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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 ROWAN COUNTY BASIN A STREAM 3  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100-YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK IVO NINV IDIR STRT METRIC HVINS Q WSEL EQ  
 -10. 4. 0. 0. 0.014000 0.0 0.0 0. 670.900 0.0  
 J2 NPROF IPELOT PREVS XSECV XSECH FN ALLDC IDW CRNUM IIRACE  
 3.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

CCHV= 0.100 CEHV= 0.300

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	LOSS	BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	TRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
400.00	5.67	668.57	668.57	670.90	669.16	0.59	0.0	0.0	667.10
1032.	202.	722.	28.	151.	99.	19.	0.	0.	667.10
0.0	1.86	7.28	1.53	0.055	0.035	0.055	0.0	662.90	1143.08
0.004830	400.	400.	400.	0	14	1	0.0	204.99	1348.07

3665 20 TRIALS USED WSEL,CWSEL

7285 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRINS	WSELK	EG	HV	HL	LOSS	BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	TRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2300.00	4.02	694.12	694.12	0.0	695.12	1.06	11.45	0.0	692.80
792.	52.	540.	151.	20.	86.	51.	9.	5.	691.30
0.007	2.55	9.28	3.14	0.055	0.035	0.055	0.035	689.30	1094.02
0.006552	1900.	1900.	1900.	30	15	1	0.0	71.58	1166.39

3665 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 ROWAN COUNTY BASIN A STREAM 3  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	QINV	IDIR	STRT	METRIC	HVINS	0	WSLL	FO
	-10.	5.	0.	0.	0.014000	0.0	0.0	0.	671.200	0.0
J2	NPROF	IPLOT	PREVS	XSECV	XSECH	FL	ALLDC	IBW	CHNAM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	LOSS	BANK LLEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOB	XLCH	XLOBR	XTRIAL	IDC	ICONT	CORAR	TOPWD	ENDST
400.00	6.06	663.96	660.96	671.90	667.68	0.72	0.0	0.0	667.10
1519.	541.	920.	58.	214.	100.	30.	0.	0.	667.10
0.0	2.53	8.49	1.97	0.055	0.035	0.055	0.0	662.30	1136.63
0.005858	400.	400.	400.	0	18	1	0.0	217.84	1354.76

5685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	LOSS	BANK LLEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOB	XLCH	XLOBR	XTRIAL	IDC	ICONT	CORAR	TOPWD	ENDST
2300.00	5.53	694.83	694.83	0.0	695.97	1.14	13.12	0.0	692.80
1139.	126.	713.	298.	27.	68.	81.	12.	7.	691.50
0.007	3.47	10.46	3.70	0.055	0.035	0.055	0.055	662.30	1050.74
0.008807	1900.	1900.	1900.	30	15	1	0.0	64.85	1175.53

5685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500 YEAR FLOOD WATER SUR

SECTION NUMBER	CHANNEL LENGTH	MIN EL. OF ROADWAY	MAX EL. OF LOW CHORD	MIN EL. OF GROUND	DISCHARGE (CFS)	CWSEL	19	EG	TOPWID	STENCE	STENCR	VCH	
A	400.00	400.00	0.0	0.0	662.90	443.00	666.48	37.43	667.42	20.95	0.0	0.0	8.57
	400.00	400.00	0.0	0.0	662.90	834.00	668.56	115.36	668.90	194.64	0.0	0.0	7.20
	400.00	400.00	0.0	0.0	662.90	1032.00	668.57	148.50	669.16	204.99	0.0	0.0	7.28
	400.00	400.00	0.0	0.0	662.90	1519.00	668.96	198.46	669.68	217.88	0.0	0.0	8.49
B	2300.00	1900.00	0.0	0.0	689.30	306.00	692.52	28.23	693.45	29.46	0.0	0.0	7.99
	2300.00	1900.00	0.0	0.0	689.30	596.00	693.74	64.45	694.68	64.64	0.0	0.0	8.71
	2300.00	1900.00	0.0	0.0	689.30	752.00	694.12	81.27	695.12	71.58	0.0	0.0	9.28
	2300.00	1900.00	0.0	0.0	689.30	1139.00	694.83	121.37	695.97	84.85	0.0	0.0	10.46
	2350.00	50.00	0.0	0.0	690.00	306.00	693.21	28.03	694.15	29.32	0.0	0.0	8.03
	2350.00	50.00	0.0	0.0	690.00	596.00	694.45	64.81	695.38	64.80	0.0	0.0	8.67
	2350.00	50.00	0.0	0.0	690.00	752.00	694.83	81.94	695.82	71.83	0.0	0.0	9.22
	2350.00	50.00	0.0	0.0	690.00	1139.00	695.55	122.41	696.67	85.16	0.0	0.0	10.40
	2400.00	50.00	0.0	0.0	691.50	306.00	695.71	42.77	696.24	49.83	0.0	0.0	7.56
	2400.00	50.00	0.0	0.0	691.50	596.00	696.29	77.14	697.02	63.54	0.0	0.0	9.02
	2400.00	50.00	0.0	0.0	691.50	752.00	696.51	93.70	697.37	65.31	0.0	0.0	9.69
	2400.00	50.00	0.0	0.0	691.50	1139.00	697.08	145.42	698.10	67.91	0.0	0.0	10.25
UNIMPROVED ROAD													
	2488.00	88.00	709.10	695.50	691.50	306.00	709.27	4618.87	709.27	200.09	0.0	0.0	0.20
	2488.00	88.00	709.10	695.50	691.50	596.00	710.49	5578.90	710.49	227.07	0.0	0.0	0.33
	2488.00	88.00	709.10	695.50	691.50	752.00	710.84	5879.66	710.85	234.87	0.0	0.0	0.41
	2488.00	88.00	709.10	695.50	691.50	1139.00	711.49	6460.35	711.50	244.19	0.0	0.0	0.57
	2538.00	50.00	0.0	0.0	692.30	306.00	709.27	2611.36	709.27	199.51	0.0	0.0	0.29
	2538.00	50.00	0.0	0.0	692.30	596.00	710.49	3093.97	710.49	210.47	0.0	0.0	0.50
	2538.00	50.00	0.0	0.0	692.30	752.00	710.84	3241.63	710.85	213.63	0.0	0.0	0.62
	2538.00	50.00	0.0	0.0	692.30	1139.00	711.49	3522.44	711.50	219.43	0.0	0.0	0.88
	2588.00	50.00	0.0	0.0	693.10	306.00	709.27	2320.05	709.27	192.34	0.0	0.0	0.32
	2588.00	50.00	0.0	0.0	693.10	596.00	710.49	2773.23	710.49	203.30	0.0	0.0	0.55
	2588.00	50.00	0.0	0.0	693.10	752.00	710.84	2912.41	710.85	206.47	0.0	0.0	0.66
	2588.00	50.00	0.0	0.0	693.10	1139.00	711.49	3177.33	711.50	212.27	0.0	0.0	0.95
	4450.00	1862.00	0.0	0.0	712.60	316.00	715.14	18.82	715.75	46.62	0.0	0.0	6.51
	4450.00	1862.00	0.0	0.0	712.60	551.00	715.94	43.04	716.45	117.93	0.0	0.0	6.44
	4450.00	1862.00	0.0	0.0	712.60	551.00	716.20	56.30	716.89	141.48	0.0	0.0	6.57
	4450.00	1862.00	0.0	0.0	712.60	857.00	716.57	83.27	717.14	158.34	0.0	0.0	7.45
	6400.00	1950.00	0.0	0.0	728.50	70.00	731.11	13.31	731.25	14.56	0.0	0.0	2.54
	6400.00	1950.00	0.0	0.0	728.50	154.00	731.78	22.36	732.08	22.25	0.0	0.0	4.92
	6400.00	1950.00	0.0	0.0	728.50	207.00	732.07	27.35	732.48	27.79	0.0	0.0	5.32
	6400.00	1950.00	0.0	0.0	728.50	352.00	732.93	49.04	733.43	45.22	0.0	0.0	5.35
	6450.00	50.00	0.0	0.0	728.90	70.00	731.25	10.60	731.44	13.51	0.0	0.0	3.48
	6450.00	50.00	0.0	0.0	728.90	154.00	731.99	19.54	732.37	19.13	0.0	0.0	6.94
	6450.00	50.00	0.0	0.0	728.90	207.00	732.33	25.25	732.81	25.20	0.0	0.0	5.50
	6450.00	50.00	0.0	0.0	728.90	352.00	733.14	43.87	733.75	39.96	0.0	0.0	6.96

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSL	TO	EG	TOPWID	STENCL	STENCR	VCH
6500.00	50.00	0.0	0.0	729.30	70.00	731.49	35.71	731.50	36.46	0.0	0.0	0.91
6500.00	50.00	0.0	0.0	729.30	154.00	732.43	89.71	732.44	109.79	0.0	0.0	1.12
6500.00	50.00	0.0	0.0	729.30	207.00	732.58	124.68	732.89	117.08	0.0	0.0	1.22
6500.00	50.00	0.0	0.0	729.30	352.00	733.82	217.89	733.84	152.54	0.0	0.0	1.44
<i>UNGRAINED ROAD</i>												
6533.00	33.00	737.80	735.80	729.30	70.00	731.49	35.72	731.50	36.47	0.0	0.0	0.91
6533.00	33.00	737.80	735.80	729.30	154.00	732.43	89.71	732.44	109.79	0.0	0.0	1.12
6533.00	33.00	737.80	735.80	729.30	207.00	732.88	124.73	732.89	117.09	0.0	0.0	1.22
6533.00	33.00	737.80	735.80	729.30	352.00	733.82	217.97	733.84	152.55	0.0	0.0	1.44
6583.00	50.00	0.0	0.0	729.90	70.00	731.56	8.06	732.11	10.71	0.0	0.0	5.97
6583.00	50.00	0.0	0.0	729.90	154.00	732.36	11.67	733.15	13.94	0.0	0.0	7.13
6583.00	50.00	0.0	0.0	729.90	207.00	732.73	15.85	733.64	15.94	0.0	0.0	7.64
6583.00	50.00	0.0	0.0	729.90	352.00	733.65	31.76	734.65	31.05	0.0	0.0	8.12
6633.00	50.00	0.0	0.0	730.50	70.00	732.45	7.14	732.79	11.91	0.0	0.0	4.64
6633.00	50.00	0.0	0.0	730.50	154.00	733.30	15.44	733.82	15.31	0.0	0.0	5.79
6633.00	50.00	0.0	0.0	730.50	207.00	733.68	20.94	734.50	20.72	0.0	0.0	6.34
6633.00	50.00	0.0	0.0	730.50	352.00	734.28	32.07	735.26	31.31	0.0	0.0	8.07
9100.00	2467.00	0.0	0.0	776.10	70.00	779.03	4.90	778.70	8.09	0.0	0.0	6.59
9100.00	2467.00	0.0	0.0	776.10	154.00	779.00	11.27	779.96	10.48	0.0	0.0	7.84
9100.00	2467.00	0.0	0.0	776.10	207.00	779.46	15.35	780.55	11.61	0.0	0.0	8.37
9100.00	2467.00	0.0	0.0	776.10	352.00	780.48	27.14	781.32	14.12	0.0	0.0	9.25
9150.00	50.00	0.0	0.0	777.00	70.00	779.05	5.54	779.61	8.59	0.0	0.0	6.02
9150.00	50.00	0.0	0.0	777.00	154.00	779.96	11.74	780.66	10.62	0.0	0.0	7.60
9150.00	50.00	0.0	0.0	777.00	207.00	780.38	15.44	781.45	11.63	0.0	0.0	8.53
9150.00	50.00	0.0	0.0	777.00	352.00	781.37	26.51	782.72	14.05	0.0	0.0	9.35
9200.00	50.00	0.0	0.0	779.00	70.00	781.19	8.92	781.71	12.92	0.0	0.0	6.40
9200.00	50.00	0.0	0.0	779.00	154.00	781.97	18.28	782.62	19.06	0.0	0.0	7.66
9200.00	50.00	0.0	0.0	779.00	207.00	782.30	24.56	783.02	21.65	0.0	0.0	8.21
9200.00	50.00	0.0	0.0	779.00	352.00	782.96	41.50	783.66	26.90	0.0	0.0	9.34
9254.00	54.00	789.90	786.50	779.00	70.00	781.20	8.09	781.71	12.98	0.0	0.0	6.44
9254.00	54.00	789.90	786.50	779.00	154.00	781.98	18.42	782.62	19.12	0.0	0.0	7.61
9254.00	54.00	789.90	786.50	779.00	207.00	782.31	24.75	783.02	21.72	0.0	0.0	8.16
9254.00	54.00	789.90	786.50	779.00	352.00	782.97	41.86	783.66	26.59	0.0	0.0	9.28
9304.00	50.00	0.0	0.0	780.10	70.00	782.04	4.95	782.70	8.11	0.0	0.0	6.34
9304.00	50.00	0.0	0.0	780.10	154.00	783.01	11.33	783.95	10.50	0.0	0.0	7.51
9304.00	50.00	0.0	0.0	780.10	207.00	783.43	15.51	784.55	11.65	0.0	0.0	8.50
9304.00	50.00	0.0	0.0	780.10	352.00	784.47	26.96	785.82	14.09	0.0	0.0	9.34
9354.00	50.00	0.0	0.0	781.20	70.00	783.13	4.93	783.80	8.10	0.0	0.0	6.36
9354.00	50.00	0.0	0.0	781.20	154.00	784.10	11.23	785.06	10.48	0.0	0.0	7.53
9354.00	50.00	0.0	0.0	781.20	207.00	784.56	15.37	785.65	11.61	0.0	0.0	8.36
9354.00	50.00	0.0	0.0	781.20	352.00	785.57	26.94	786.72	14.00	0.0	0.0	9.35

SECTION NUMBER	DISCHARGE CFS	CWSL	CWSL DIFF EACH 0	CWSL DIFF EACH SECTION	CWSL-WSLR	TOPWID	T.W. DIFF	LENGTH
400.000	443.000	666.976	0.0	0.0	0.0	20.946	0.0	400.000
400.000	834.000	668.256	1.700	0.0	0.0	194.655	-173.609	400.000
400.000	1032.000	668.571	0.316	0.0	0.0	204.971	-184.646	400.000
400.000	1519.000	668.964	0.393	0.0	0.0	217.878	-196.932	400.000
2300.000	306.000	622.516	0.0	26.041	0.0	29.463	0.0	1900.000



2300,000	596,000	691,743	1,227	25,488	0.0	64,636	-35,174	1900,000
2300,000	752,000	694,117	0,374	25,546	0.0	71,576	-42,114	1900,000
2300,000	1139,000	694,832	0,715	25,868	0.0	84,853	-55,390	1900,000
2350,000	306,000	693,206	0.0	0,690	0.0	29,321	0.0	50,000
2350,000	596,000	694,452	1,246	0,709	0.0	64,795	-35,074	50,000
2350,000	752,000	694,831	0,379	0,714	0.0	71,830	-42,509	50,000
2350,000	1139,000	695,548	0,710	0,716	0.0	85,186	-55,835	50,000
2400,000	306,000	695,713	0.0	2,506	0.0	49,829	0.0	50,000
2400,000	596,000	696,233	0,581	1,841	0.0	63,542	-13,713	50,000
2400,000	752,000	696,511	0,218	1,681	0.0	65,307	-15,479	50,000
2400,000	1139,000	697,079	0,568	1,531	0.0	69,908	-20,079	50,000
2480,000	306,000	709,269	0.0	13,550	0.0	200,082	0.0	88,000
2480,000	596,000	710,492	1,223	14,159	0.0	227,074	-26,986	88,000
2480,000	752,000	710,845	0,353	14,334	0.0	234,874	-34,786	88,000
2480,000	1139,000	711,492	0,647	14,413	0.0	249,188	-49,100	88,000
2530,000	306,000	709,269	0.0	0.0	0.0	199,511	0.0	50,000
2530,000	596,000	710,492	1,223	0.0	0.0	210,469	-10,958	50,000
2530,000	752,000	710,845	0,353	0.0	0.0	213,632	-14,121	50,000
2530,000	1139,000	711,492	0,647	0.0	0.0	219,430	-19,918	50,000
2580,000	306,000	709,269	0.0	0.0	0.0	192,345	0.0	50,000
2580,000	596,000	710,492	1,223	0.0	0.0	203,303	-10,958	50,000
2580,000	752,000	710,845	0,353	0.0	0.0	206,460	-14,123	50,000
2580,000	1139,000	711,492	0,647	0.0	0.0	212,266	-19,921	50,000
4450,000	216,000	715,138	0.0	5,289	0.0	48,010	0.0	1862,000
4450,000	431,000	715,936	0,798	5,444	0.0	117,933	-71,915	1862,000
4450,000	551,000	716,196	0,261	5,351	0.0	141,479	-95,460	1862,000
4450,000	857,000	716,569	0,373	5,078	0.0	153,338	-112,320	1862,000
6400,000	70,000	731,114	0.0	15,976	0.0	14,561	0.0	1950,000
6400,000	154,000	731,762	0,648	15,826	0.0	22,248	-7,687	1950,000
6400,000	207,000	732,069	0,307	15,673	0.0	29,740	-13,179	1950,000
6400,000	352,000	732,927	0,859	16,358	0.0	43,221	-28,660	1950,000
6450,000	70,000	731,248	0.0	0,134	0.0	13,508	0.0	50,000
6450,000	154,000	731,987	0,739	0,225	0.0	19,131	-5,623	50,000
6450,000	207,000	732,325	0,336	0,297	0.0	25,198	-11,689	50,000
6450,000	352,000	733,145	0,819	0,218	0.0	39,265	-26,487	50,000
6500,000	70,000	731,490	0.0	0,242	0.0	86,459	0.0	50,000
6500,000	154,000	732,429	0,939	0,442	0.0	107,794	-23,335	50,000
6500,000	207,000	732,875	0,446	0,550	0.0	117,076	-30,619	50,000
6500,000	352,000	733,823	0,948	0,670	0.0	132,516	-46,077	50,000
6533,000	70,000	731,490	0.0	0.0	0.0	86,459	0.0	33,000
6533,000	154,000	732,429	0,939	0.0	0.0	109,744	-23,326	33,000
6533,000	207,000	732,875	0,446	0.0	0.0	117,003	-30,621	33,000
6533,000	352,000	733,823	0,948	0.0	0.0	132,549	-46,082	33,000
6583,000	70,000	731,490	0.0	0,060	0.0	10,712	0.0	50,000
6583,000	154,000	732,208	0,803	-0,071	0.0	13,939	-3,227	50,000
6583,000	207,000	732,731	0,375	-0,144	0.0	15,400	-4,728	50,000
6583,000	352,000	733,652	0,921	-0,171	0.0	31,052	-20,340	50,000
6633,000	70,000	732,454	0.0	0,899	0.0	11,915	0.0	50,000
6633,000	154,000	733,297	0,843	0,939	0.0	15,305	-3,396	50,000
6633,000	207,000	733,676	0,379	0,945	0.0	20,716	-0,801	50,000
6633,000	352,000	734,265	0,599	0,623	0.0	31,307	-19,392	50,000
910,000	70,000	778,030	0.0	45,576	0.0	8,089	0.0	2467,000
9100,000	154,000	779,002	0,972	45,705	0.0	10,478	-2,388	2467,000

9100.000	207.000	779.465	0.461	46.767	0.0	11.411	-5.521	2467.000
9100.000	352.000	780.404	1.021	46.209	0.0	14.120	-6.051	2467.000
9150.000	70.000	779.050	0.0	1.021	0.0	0.387	0.0	50.000
9150.000	154.000	779.960	0.909	0.950	0.0	10.620	-2.233	50.000
9150.000	207.000	780.375	0.416	0.913	0.0	11.631	-3.244	50.000
9150.000	352.000	781.366	0.991	0.802	0.0	14.073	-5.690	50.000
9200.000	70.000	781.192	0.0	2.141	0.0	12.923	0.0	50.000
9200.000	154.000	781.969	0.777	2.009	0.0	19.059	-6.136	50.000
9200.000	207.000	782.297	0.328	1.922	0.0	21.609	-8.726	50.000
9200.000	352.000	782.962	0.665	1.596	0.0	26.999	-13.276	50.000
9254.000	70.000	781.200	0.0	0.007	0.0	12.970	0.0	50.000
9254.000	154.000	781.977	0.778	0.000	0.0	19.123	-6.133	50.000
9254.000	207.000	782.307	0.329	0.009	0.0	21.720	-8.740	50.000
9254.000	352.000	782.974	0.668	0.013	0.0	26.994	-13.034	50.000
9304.000	70.000	782.039	0.0	0.839	0.0	8.113	0.0	50.000
9304.000	154.000	783.009	0.970	1.032	0.0	10.497	-2.384	50.000
9304.000	207.000	783.479	0.469	1.172	0.0	11.650	-3.537	50.000
9304.000	352.000	784.470	0.992	1.456	0.0	14.087	-5.274	50.000
9354.000	70.000	783.135	0.0	1.096	0.0	8.103	0.0	50.000
9354.000	154.000	784.102	0.950	1.033	0.0	10.480	-2.378	50.000
9354.000	207.000	784.564	0.461	1.085	0.0	11.613	-3.510	50.000
9354.000	352.000	785.569	1.006	1.098	0.0	14.083	-5.980	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	9.169	0.0
2	0.0	0.0	17.660	2.500
3	0.0	0.0	19.523	10.354
4	0.0	0.0	21.038	12.067



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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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 I ROWAN CO. BASIN B STREAM 3 UNNAMED STREAM  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	WINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-1.	2.	0.	0.	0.003000	0.0	0.0	0.	704.600	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	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	920.000	1620.000	1950.000	2750.000	1950.000	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	1085.000	12.000	1275.000	1300.000	1085.000	1085.000	1085.000	0.0	0.0	0.0
GR	721.000	1000.000	719.500	1050.000	714.400	1060.000	712.600	1100.000	708.200	1200.000
GR	707.900	1275.000	699.900	1278.000	699.600	1286.000	699.900	1294.000	704.900	1300.000
GR	707.600	1321.000	721.900	1400.000	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	875.000	1560.000	1870.000	2640.000	1870.000	0.0	0.0	0.0	0.0
X1	4270.000	12.000	1400.000	1431.000	3185.000	3185.000	3185.000	0.0	-1.400	0.0
GR	724.000	1000.000	722.000	1100.000	720.900	1200.000	720.000	1300.000	718.900	1400.000
GR	714.500	1408.000	713.500	1418.000	714.500	1428.000	720.100	1431.000	721.800	1500.000
GR	731.700	1600.000	735.700	1666.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	4370.000	14.000	1401.000	1432.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	729.400	1000.000	726.500	1100.000	724.500	1200.000	721.500	1300.000	721.200	1400.000
GR	717.300	1401.000	714.100	1406.000	712.800	1413.000	714.100	1426.000	717.300	1432.000
GR	723.100	1500.000	729.000	1600.000	733.600	1700.000	738.900	1800.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	32.000	0.010	265.100	0.0	0.0	0.0
X1	4391.000	0.0	0.0	0.0	21.000	21.000	21.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	722.800	724.700	0.0	0.0	0.0	0.0	0.0
BT	13.000	1000.000	729.400	0.0	1100.000	726.500	0.0	1200.000	724.500	0.0
BT	1300.000	723.600	0.0	1400.000	724.700	0.0	1400.900	724.700	0.0	1401.000
BT	724.700	722.800	1432.000	724.700	722.800	1432.100	724.700	0.0	1500.000	725.000
BT	0.0	1600.000	729.000	0.0	1700.000	733.600	0.0	1800.000	738.900	0.0
X1	4491.000	12.000	1400.000	1431.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	724.000	1000.000	722.000	1100.000	720.900	1200.000	720.000	1300.000	718.900	1400.000
GR	714.500	1408.000	713.500	1418.000	714.500	1428.000	720.100	1431.000	721.800	1500.000
GR	731.700	1600.000	735.700	1666.000	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	920.000	1620.000	1950.000	2750.000	1950.000	0.0	0.0	0.0	0.0

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X1	5785.000	0.0	0.0	0.0	1294.000	1294.000	1294.000	0.0	4.200	0.0
X1	7080.000	13.000	1400.000	1414.000	1295.000	1295.000	1295.000	0.0	0.0	0.0
GR	744.500	1000.000	739.200	1100.000	733.000	1200.000	728.700	1300.000	729.200	1400.000
GR	722.200	1403.000	721.900	1406.000	722.300	1407.000	729.500	1414.000	728.700	1500.000
GR	729.200	1580.000	733.800	1600.000	735.300	1605.000	0.0	0.0	0.0	0.0
NC	0.060	0.060	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	670.000	1190.000	1450.000	2040.000	1450.000	0.0	0.0	0.0	0.0
X1	9730.000	10.000	1280.000	1310.000	2650.000	2650.000	2650.000	0.0	-1.400	0.0
GR	752.500	1000.000	740.800	1100.000	736.700	1280.000	734.700	1284.000	734.300	1293.000
GR	734.700	1302.000	736.700	1310.000	743.300	1328.000	750.600	1500.000	752.400	1513.000
X1	9830.000	14.000	1532.000	1592.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	762.100	1000.000	751.700	1200.000	744.300	1400.000	738.100	1500.000	744.000	1532.000
GR	743.000	1534.000	740.400	1542.000	734.600	1553.000	733.600	1558.000	735.600	1566.000
GR	737.700	1568.000	744.000	1592.000	742.000	1600.000	762.100	1800.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	60.000	0.100	604.600	0.0	0.0	0.0
X1	9855.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	746.400	747.400	0.0	0.0	0.0	0.0	0.0
BT	11.000	1000.000	762.100	0.0	1200.000	751.700	0.0	1400.000	748.300	0.0
BT	1500.000	747.400	0.0	1531.500	747.600	0.0	1532.000	747.600	746.200	1592.000
BT	747.900	746.400	1592.100	747.900	0.0	1600.000	748.000	0.0	1700.000	752.900
BT	0.0	1800.000	762.100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	9955.000	10.000	1280.000	1310.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	752.500	1000.000	740.800	1100.000	736.700	1280.000	734.700	1284.000	734.300	1293.000
GR	734.700	1302.000	736.700	1310.000	743.300	1328.000	750.600	1500.000	752.400	1513.000
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	320.000	581.000	729.000	1020.000	729.000	0.0	0.0	0.0	0.0
X1	12570.000	12.000	1121.000	1131.000	2615.000	2615.000	2615.000	0.0	-12.000	0.0
GR	770.200	1000.000	762.500	1050.000	756.600	1072.000	755.600	1100.000	754.700	1121.000
GR	754.000	1124.000	754.000	1125.000	754.000	1126.000	757.400	1131.000	761.000	1200.000
GR	766.800	1300.000	770.200	1385.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	12690.000	15.000	1397.500	1402.500	120.000	120.000	120.000	0.0	0.0	0.0
GR	774.600	1000.000	772.300	1100.000	768.800	1200.000	760.000	1300.000	750.500	1345.000
GR	750.500	1397.500	748.700	1398.200	748.000	1400.000	748.700	1401.800	750.500	1402.500
GR	756.700	1500.000	762.300	1600.000	764.500	1655.000	770.300	1700.000	773.700	1800.000
SB	0.900	1.500	2.500	0.0	5.000	0.010	19.600	0.0	0.0	0.0
X1	12733.000	0.0	0.0	0.0	43.000	43.000	43.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	753.000	763.200	0.0	0.0	0.0	0.0	0.0
BT	14.000	1000.000	774.600	0.0	1100.000	772.300	0.0	1200.000	768.800	0.0
BT	1300.000	765.500	0.0	1397.500	763.200	750.500	1398.200	763.200	752.300	1400.000
BT	763.200	753.000	1401.800	763.200	752.300	1402.500	763.200	750.500	1402.600	763.200
BT	0.0	1500.000	763.800	0.0	1600.000	766.700	0.0	1700.000	770.300	0.0
BT	1800.000	773.700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	12853.000	12.000	1121.000	1131.000	120.000	120.000	120.000	0.0	0.0	0.0
GR	770.200	1000.000	762.500	1050.000	756.600	1072.000	755.600	1100.000	754.700	1121.000
GR	754.000	1124.000	754.000	1125.000	754.000	1126.000	757.400	1131.000	761.000	1200.000
GR	766.800	1300.000	770.200	1385.000	0.0	0.0	0.0	0.0	0.0	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 ROWAN CO. BASIN B STREAM 3 UNNAMED STREAM  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES H-G JOB NO. 6918  
 T3 50-YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	3.	0.	0.	0.005000	0.0	0.0	0.	705.600	0.0
J2	NPROF	IPLT	PREVS	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

CCHV= 0.100 CEHV= 0.300

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	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1085.00	8.10	707.70	0.0	705.60	708.92	1.23	0.0	0.0	707.90
1620.	0.	1547.	73.	0.	170.	30.	0.	0.	704.90
0.0	0.0	9.03	2.42	0.055	0.035	0.055	0.0	699.60	1275.05
0.004952	1085.	1085.	1085.	0	0	3	0.0	46.46	1321.53

CCHV= 0.100 CEHV= 0.300

3301 HV CHANGED MORE THAN HVINS

4270.00	7.51	719.61	0.0	0.0	720.12	0.51	11.13	0.07	717.50
1560.	341.	1205.	14.	213.	186.	17.	23.	12.	718.70
0.16	1.60	6.48	0.01	0.055	0.035	0.055	0.035	712.10	1189.65
0.002570	3185.	3185.	3185.	5	0	1	0.0	278.44	1468.09

3301 HV CHANGED MORE THAN HVINS

4370.00	6.62	719.42	0.0	0.0	720.74	1.32	0.37	0.24	717.30
1560.	0.	1503.	57.	1.	160.	26.	23.	12.	717.30
0.17	0.65	9.37	2.15	0.055	0.035	0.055	0.035	712.80	1400.46
0.005896	100.	100.	100.	3	0	1	0.0	56.42	1456.88

SPECIAL BRIDGE

5070 VARIABLE ELCHU OR ELCHD ON CARD SO NOT SPECIFIED

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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS-01,02,03,04,05,06,07,08  
 MODIFICATIONS-52,53,54,55,56,57,58  
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T1 ROWAN CO. BASIN B STREAM 3 UNNAMED STREAM  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918  
 T3 100-YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FR
	-10.	4.	0.	0.	0.005000	0.0	0.0	0.	707.600	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

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	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	LNDS
1085.00	8.74	708.34	706.81	707.60	709.67	1.34	0.0	0.0	707.90
1950.	18.	1795.	137.	22.	186.	45.	0.	0.	704.90
0.0	0.83	9.63	3.03	0.055	0.035	0.055	0.0	699.60	1156.87
0.004986	1085.	1085.	1085.	0	12	1	0.0	128.21	1325.08

CCHV= 0.100 CEHV= 0.300

3301 HV CHANGED MORE THAN HVINS

4270.00	7.91	720.01	0.0	0.0	720.49	0.47	10.73	0.09	717.50
1870.	539.	1296.	35.	305.	198.	35.	29.	17.	718.70
0.17	1.77	6.53	1.00	0.055	0.035	0.055	0.035	712.10	1153.20
0.002396	3185.	3185.	3185.	6	0	1	0.0	331.18	1484.38

3301 HV CHANGED MORE THAN HVINS

4370.00	6.65	719.45	719.28	0.0	721.31	1.86	0.40	0.41	717.30
1870.	1.	1799.	71.	1.	162.	27.	30.	17.	717.30
0.18	1.02	11.13	2.58	0.055	0.035	0.055	0.035	712.80	1400.45
0.008241	100.	100.	100.	6	12	1	0.0	55.89	1457.33

SPECIAL BRIDGE

5070 VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 ROWAN CO. BASIN B STREAM 3 UNNAMED STREAM  
 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	FG
	-10.	5.	0.	0.	0.005000	0.0	0.0	0.	708.600	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 GEHV= 0.300

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1085.00	9.74	709.33	709.18	708.60	710.77	1.44	0.0	0.0	707.90
2750.	239.	2234.	277.	111.	211.	73.	0.	0.	704.90
0.0	2.15	10.57	3.80	0.055	0.035	0.055	0.0	699.60	1174.20
0.005083	1085.	1085.	1085.	0	8	1	0.0	156.38	1330.59

CCHV= 0.100 GEHV= 0.300

3301 HV CHANGED MORE THAN HVINS

4270.00	8.64	720.74	0.0	0.0	721.16	0.42	10.29	0.10	717.50
2640.	1035.	1487.	118.	509.	221.	83.	44.	21.	718.70
0.19	2.04	6.73	1.42	0.055	0.035	0.055	0.035	712.10	1092.84
0.002202	3185.	3185.	3185.	6	0	1	0.0	410.64	1503.47

3685 20 TRIALS USED WSEL.CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500-YEAR FLOOD WATER SUR

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
1085.00	1085.00	0.0	0.0	699.60	920.00	705.67	129.80	706.57	30.15	0.0	0.0	7.61
1085.00	1085.00	0.0	0.0	699.60	1620.00	707.70	230.22	708.92	46.46	0.0	0.0	9.08
1085.00	1085.00	0.0	0.0	699.60	1950.00	708.34	276.17	709.67	128.21	0.0	0.0	9.63
1085.00	1085.00	0.0	0.0	699.60	2750.00	709.33	385.74	710.77	156.38	0.0	0.0	10.57
4270.00	3185.00	0.0	0.0	712.10	875.00	718.26	160.32	718.79	99.64	0.0	0.0	5.94
4270.00	3185.00	0.0	0.0	712.10	1560.00	719.61	307.74	720.12	278.44	0.0	0.0	6.48
4270.00	3185.00	0.0	0.0	712.10	1870.00	720.01	381.99	720.49	331.18	0.0	0.0	6.63
4270.00	3185.00	0.0	0.0	712.10	2640.00	720.74	562.59	721.16	420.64	0.0	0.0	6.73
4370.00	100.00	0.0	0.0	712.80	875.00	718.50	143.05	719.16	45.44	0.0	0.0	6.55
4370.00	100.00	0.0	0.0	712.80	1560.00	719.42	203.16	720.74	56.42	0.0	0.0	9.37
4370.00	100.00	0.0	0.0	712.80	1870.00	719.45	205.99	721.31	56.89	0.0	0.0	11.13
4370.00	100.00	0.0	0.0	712.80	2640.00	720.53	293.22	722.78	69.69	0.0	0.0	12.50
4391.00	21.00	724.70	722.80	712.80	875.00	718.50	143.07	719.16	45.45	0.0	0.0	6.55
4391.00	21.00	724.70	722.80	712.80	1560.00	719.42	203.22	720.74	56.43	0.0	0.0	9.37
4391.00	21.00	724.70	722.80	712.80	1870.00	719.45	205.60	721.31	56.82	0.0	0.0	11.15
4391.00	21.00	724.70	722.80	712.80	2640.00	720.53	293.58	722.78	69.73	0.0	0.0	12.49
4491.00	100.00	0.0	0.0	713.50	875.00	718.83	116.04	719.68	30.20	0.0	0.0	7.37
4491.00	100.00	0.0	0.0	713.50	1560.00	720.27	210.63	721.33	168.29	0.0	0.0	8.67
4491.00	100.00	0.0	0.0	713.50	1870.00	721.37	372.07	721.87	324.73	0.0	0.0	6.67
4491.00	100.00	0.0	0.0	713.50	2640.00	723.02	864.65	723.19	463.11	0.0	0.0	4.73
5785.00	1294.00	0.0	0.0	717.70	830.00	723.96	167.08	724.41	108.82	0.0	0.0	5.47
5785.00	1294.00	0.0	0.0	717.70	1460.00	725.24	314.43	725.67	283.68	0.0	0.0	5.96
5785.00	1294.00	0.0	0.0	717.70	1750.00	725.10	288.03	725.83	262.04	0.0	0.0	7.66
5785.00	1294.00	0.0	0.0	717.70	2480.00	725.64	387.01	726.45	334.38	0.0	0.0	8.58
7080.00	1295.00	0.0	0.0	721.90	830.00	729.73	109.60	730.19	306.34	0.0	0.0	6.98
7080.00	1295.00	0.0	0.0	721.90	1460.00	730.14	168.24	730.67	317.51	0.0	0.0	8.44
7080.00	1295.00	0.0	0.0	721.90	1750.00	730.68	270.47	730.96	332.52	0.0	0.0	6.70
7080.00	1295.00	0.0	0.0	721.90	2480.00	731.27	409.20	731.53	348.70	0.0	0.0	6.69
9730.00	2650.00	0.0	0.0	732.90	670.00	737.85	166.85	738.02	148.69	0.0	0.0	3.86
9730.00	2650.00	0.0	0.0	732.90	1190.00	738.98	300.35	739.18	201.91	0.0	0.0	4.46
9730.00	2650.00	0.0	0.0	732.90	1450.00	738.99	300.70	739.29	202.03	0.0	0.0	5.43
9730.00	2650.00	0.0	0.0	732.90	2040.00	739.58	394.71	739.94	223.09	0.0	0.0	6.23
9830.00	100.00	0.0	0.0	733.60	670.00	738.47	50.50	739.81	33.15	0.0	0.0	9.32
9830.00	100.00	0.0	0.0	733.60	1190.00	739.99	103.08	741.22	74.83	0.0	0.0	9.26
9830.00	100.00	0.0	0.0	733.60	1450.00	740.46	128.85	741.69	88.19	0.0	0.0	9.38
9830.00	100.00	0.0	0.0	733.60	2040.00	741.26	180.77	742.52	110.36	0.0	0.0	9.90
LIMIT OF DETAILED STUDY												
9855.00	25.00	747.40	746.40	733.60	670.00	730.48	50.78	739.81	33.48	0.0	0.0	9.28
9855.00	25.00	747.40	746.40	733.60	1190.00	740.00	103.46	741.22	75.05	0.0	0.0	9.23
9855.00	25.00	747.40	746.40	733.60	1450.00	740.49	129.26	741.69	88.40	0.0	0.0	9.36
9855.00	25.00	747.40	746.40	733.60	2040.00	741.27	181.34	742.52	110.57	0.0	0.0	9.87

MADE IN U.S.A.

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SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
9955.00	100.00	0.0	0.0	734.30	670.00	740.04	254.63	740.13	185.98	0.0	0.0	2.84
9955.00	100.00	0.0	0.0	734.30	1190.00	741.41	484.30	741.49	228.06	0.0	0.0	3.11
9955.00	100.00	0.0	0.0	734.30	1450.00	741.87	588.36	741.96	233.28	0.0	0.0	3.26
9955.00	100.00	0.0	0.0	734.30	2040.00	742.70	799.40	742.81	242.64	0.0	0.0	3.64
12570.00	2615.00	0.0	0.0	742.00	320.00	744.54	40.09	745.04	56.13	0.0	0.0	6.78
12570.00	2615.00	0.0	0.0	742.00	581.00	745.04	71.23	745.74	60.14	0.0	0.0	7.70
12570.00	2615.00	0.0	0.0	742.00	729.00	745.30	90.47	746.09	61.45	0.0	0.0	7.96
12570.00	2615.00	0.0	0.0	742.00	1020.00	745.68	124.91	746.69	68.46	0.0	0.0	8.82
12690.00	120.00	0.0	0.0	748.00	320.00	751.35	37.30	751.80	74.81	0.0	0.0	7.30
12690.00	120.00	0.0	0.0	748.00	581.00	751.80	70.60	752.37	84.09	0.0	0.0	7.78
12690.00	120.00	0.0	0.0	748.00	729.00	751.96	85.38	752.65	87.45	0.0	0.0	8.36
12690.00	120.00	0.0	0.0	748.00	1020.00	752.30	120.08	753.12	94.31	0.0	0.0	8.87
12733.00	43.00	763.20	753.00	748.00	320.00	751.35	37.46	751.80	74.86	0.0	0.0	7.27
12733.00	43.00	763.20	753.00	748.00	581.00	751.80	70.91	752.37	84.16	0.0	0.0	7.75
12733.00	43.00	763.20	753.00	748.00	729.00	751.97	85.84	752.65	87.55	0.0	0.0	8.32
12733.00	43.00	763.20	753.00	748.00	1020.00	764.84	8454.67	764.84	412.73	0.0	0.0	0.34
12853.00	120.00	0.0	0.0	754.00	320.00	756.54	40.16	757.04	56.18	0.0	0.0	6.77
12853.00	120.00	0.0	0.0	754.00	581.00	757.05	71.39	757.74	60.15	0.0	0.0	7.68
12853.00	120.00	0.0	0.0	754.00	729.00	757.32	92.69	758.09	61.59	0.0	0.0	7.80
12853.00	120.00	0.0	0.0	754.00	1020.00	764.84	2481.69	764.85	231.30	0.0	0.0	1.05

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL - WSELK	TOPWID	T.W. DIFF	LENGTH
1085.000	920.000	705.669	0.0	0.0	0.0	30.152	0.0	1085.000
1085.000	1620.000	707.696	2.026	0.0	0.0	46.457	-16.305	1085.000
1085.000	1950.000	708.337	0.641	0.0	0.0	126.205	-98.053	1085.000
1085.000	2750.000	709.334	0.998	0.0	0.0	156.382	-126.230	1085.000
4270.000	875.000	718.259	0.0	-12.589	0.0	59.638	0.0	3185.000
4270.000	1560.000	719.610	1.351	11.914	0.0	278.439	-178.801	3185.000
4270.000	1870.000	720.014	0.404	11.678	0.0	331.175	-231.537	3185.000
4270.000	2640.000	720.740	0.726	11.406	0.0	410.637	-310.998	3185.000
4370.000	875.000	718.504	0.0	0.246	0.0	45.443	0.0	100.000
4370.000	1560.000	719.420	0.916	-0.189	0.0	56.423	-10.980	100.000
4370.000	1870.000	719.452	0.031	-0.563	0.0	56.889	-11.447	100.000
4370.000	2640.000	720.528	1.076	-0.213	0.0	69.685	-24.242	100.000
4391.000	875.000	718.505	0.0	0.091	0.0	45.446	0.0	21.000
4391.000	1560.000	719.422	0.917	0.001	0.0	56.432	-10.986	21.000
4391.000	1870.000	719.455	0.033	0.003	0.0	56.824	-11.378	21.000
4391.000	2640.000	720.532	1.077	0.004	0.0	69.732	-24.285	21.000
4491.000	875.000	718.832	0.0	0.328	0.0	30.199	0.0	100.000
4491.000	1560.000	720.269	1.436	0.847	0.0	168.294	-138.095	100.000
4491.000	1870.000	721.369	1.101	1.914	0.0	324.728	-294.529	100.000
4491.000	2640.000	723.019	1.649	2.487	0.0	463.110	-432.911	100.000
5785.000	830.000	723.956	0.0	5.124	0.0	108.822	0.0	1294.000
5785.000	1460.000	725.244	1.288	4.976	0.0	283.679	-174.858	1294.000
5785.000	1750.000	725.095	-0.149	3.726	0.0	262.040	-153.218	1294.000
5785.000	2400.000	725.638	0.543	2.620	0.0	434.777	-225.555	1294.000

MADE IN U.S.A.

7080.000	830.000	729.732	0.0	5.776	0.0	306.338	0.0	1295.000
7080.000	1460.000	730.137	0.404	4.893	0.0	317.511	-11.173	1295.000
7080.000	1750.000	730.680	0.544	5.585	0.0	332.522	-26.184	1295.000
7080.000	2480.000	731.274	0.593	5.635	0.0	348.696	-42.358	1295.000
9730.000	670.000	737.847	0.0	8.115	0.0	148.691	0.0	2650.000
9730.000	1190.000	738.984	1.136	8.847	0.0	201.915	-53.223	2650.000
9730.000	1450.000	738.987	0.004	8.307	0.0	202.031	-53.340	2650.000
9730.000	2040.000	739.576	0.589	8.303	0.0	223.090	-74.399	2650.000
9830.000	670.000	738.466	0.0	0.618	0.0	33.150	0.0	100.000
9830.000	1190.000	739.995	1.529	1.011	0.0	74.830	-41.680	100.000
9830.000	1450.000	740.481	0.486	1.494	0.0	88.190	-55.040	100.000
9830.000	2040.000	741.260	0.779	1.684	0.0	110.359	-77.208	100.000
9855.000	670.000	738.478	0.0	0.013	0.0	33.483	0.0	25.000
9855.000	1190.000	740.003	1.525	0.008	0.0	75.050	-41.567	25.000
9855.000	1450.000	740.489	0.486	0.007	0.0	88.398	-54.915	25.000
9855.000	2040.000	741.268	0.779	0.007	0.0	110.567	-77.084	25.000
9955.000	670.000	740.044	0.0	1.566	0.0	185.982	0.0	100.000
9955.000	1190.000	741.409	1.365	1.406	0.0	228.057	-42.075	100.000
9955.000	1450.000	741.872	0.463	1.383	0.0	253.280	-47.299	100.000
9955.000	2040.000	742.703	0.831	1.435	0.0	242.636	-56.655	100.000
12570.000	320.000	744.542	0.0	4.498	0.0	56.132	0.0	2615.000
12570.000	581.000	745.044	0.503	3.635	0.0	60.137	-4.005	2615.000
12570.000	729.000	745.297	0.253	3.425	0.0	61.451	-5.319	2615.000
12570.000	1020.000	745.682	0.385	2.979	0.0	68.455	-12.323	2615.000
12690.000	320.000	751.345	0.0	6.804	0.0	74.806	0.0	120.000
12690.000	581.000	751.799	0.453	6.754	0.0	84.088	-9.282	120.000
12690.000	729.000	751.963	0.164	6.666	0.0	87.451	-12.645	120.000
12690.000	1020.000	752.299	0.336	6.617	0.0	94.310	-19.504	120.000
12733.000	320.000	751.348	0.0	0.003	0.0	74.861	0.0	43.000
12733.000	581.000	751.802	0.454	0.004	0.0	84.163	-9.302	43.000
12733.000	729.000	751.968	0.166	0.005	0.0	87.551	-12.690	43.000
12733.000	1020.000	764.842	12.874	12.544	0.0	412.731	-337.871	43.000
12853.000	320.000	756.543	0.0	5.195	0.0	56.176	0.0	120.000
12853.000	581.000	757.047	0.504	5.244	0.0	60.149	-3.973	120.000
12853.000	729.000	757.324	0.278	5.336	0.0	61.593	-5.418	120.000
12853.000	1020.000	764.835	7.511	-0.007	0.0	251.305	-175.129	120.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	35.279	0.0
2	0.0	0.0	53.836	18.557
3	0.0	0.0	61.615	26.336
4	0.0	0.0	72.868	37.589