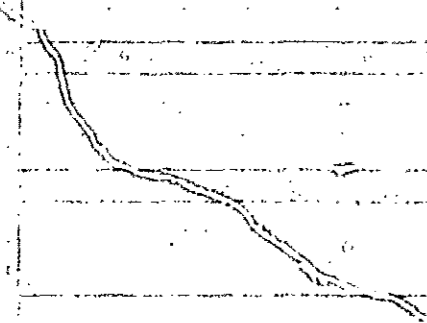

 HEC2 VERSION UPDATED JAN 1975
 ERROR-CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

C
 1- LEXINGTON-DAVIDSON-COUNTY STREAM-18L-20
 T2- FLOODPLAIN-STUDY-AT-ROHAN-&-DAVIDSON-COUNTIES M-G JOB-NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INS	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-1.	2.	0.	0.	0.012000	0.0	0.0	0.	679,000	0.0
J2	NPROF	IPLDT	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	1.000	34.000	5.000	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	403.000	716.000	876.000	1259.000	876.000	0.0	0.0	0.0	0.0
ET	3.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	383.000	11.000	1174.000	1194.000	300.000	300.000	300.000	0.0	0.0	0.0
GR	694.000	1000.000	683.000	1100.000	676.300	1174.000	674.800	1183.000	674.100	1188.000
GR	574.200	1190.000	678.000	1194.000	678.800	1200.000	679.800	1245.000	690.800	1300.000
GR	694.000	1318.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	383.000	606.000	837.000	1199.000	837.100	0.0	0.0	0.0	0.0
X1	2200.000	11.000	1156.000	1157.000	1900.000	1900.000	1900.000	0.0	0.0	0.0
GR	717.600	1000.000	704.700	1073.000	704.000	1100.000	703.200	1146.000	696.900	1153.000
GR	694.000	1155.000	683.000	1157.000	700.500	1161.000	701.000	1177.000	710.200	1200.000
GR	717.600	1227.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	210.000	504.000	775.000	711.000	478.000	0.0	0.0	0.0	0.0
X1	2225.000	0.000	1054.000	1199.000	1025.000	1025.000	1025.000	0.0	-2.500	0.0
GR	737.200	1000.000	722.700	1064.000	720.000	1089.000	719.500	1093.000	719.800	1096.000
GR	722.700	1199.000	722.700	1200.000	737.200	1230.000	0.0	0.0	0.0	0.0
X1	3275.000	0.000	0.0	0.0	0.000	50.000	50.000	0.0	1.100	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0
X1	3590.000	11.000	1153.000	1135.000	25.000	25.000	25.000	0.0	0.0	0.0
GR	746.600	1000.000	736.900	1100.000	726.500	1175.000	724.800	1183.000	724.100	1183.300
GR	723.900	1164.000	724.100	1164.700	724.800	1185.000	727.000	1290.000	727.000	1290.000
GR	741.500	1321.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	4.900	3.000	2.500	0.0	2.000	0.010	3.140	0.0	0.0	0.0
X1	3465.000	0.000	0.0	0.0	165.000	165.000	165.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	725.500	0.0	0.0	0.0	0.0	0.0	0.0
BT	10.000	1000.000	745.600	0.0	1100.000	736.900	0.0	1183.000	732.500	724.800
BT	1183.300	732.500	725.500	1184.000	732.500	725.800	1184.700	732.500	725.500	1185.000
BT	732.500	724.800	1200.000	732.500	0.0	1300.000	738.300	0.0	1376.000	746.600

	0.055	0.055	0.035	0.100	0.300	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	3490.000	8.000	1084.000	1199.000	25.000	25.000	25.000	0.0	4.800	0.0
GR	737.200	1000.000	722.200	1084.000	720.000	1089.000	719.500	1093.000	719.800	1096.000
GR	722.700	1199.000	722.700	1200.000	737.200	1230.000	0.0	0.0	0.0	0.0
X1	3540.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.300	0.0
EU	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.



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

T1 LEXINGTON-DAVIDSON COUNTY STREAM 18L-20
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-S JOB NO. 6918
 T3 50-YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INW	MINV	JOIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	1.0	3.	0.	0.	0.012000	0.0	0.0	0.	680.000	0.0
J2	NPROP	IPLUT	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

CCHV= 0.190 CEHV= 0.300

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIBS	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	IUC	ICONT	CORAR	TOPWID	ENDST	
300.00	5.61	679.71	679.71	680.00	680.69	0.98	0.0	0.0	678.30	
716.	26.	652.	37.	14.	79.	24.	0.	0.	678.80	
0.0	1.63	6.29	1.55	0.055	0.035	0.055	0.0	674.10	1156.53	
0.007302	300.	300.	300.	0	8	1	0.0	87.45	1240.98	

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIBS	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	IUC	ICONT	CORAR	TOPWID	ENDST	
2200.00	5.98	702.78	702.78	0.0	704.00	1.23	17.43	0.0	703.20	
686.	0.	447.	239.	0.	43.	50.	5.	3.	696.90	
0.06	0.0	10.43	4.80	0.055	0.035	0.055	0.035	696.80	1146.47	
0.012013	1900.	1900.	1900.	12	0	1	0.0	34.98	1181.45	

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

T1 LEXINGTON-DAVIDSON COUNTY STREAM 18L-20
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 100 YEAR FLOOD WATER SURFACE PROFILE

MADE IN U.S.A.

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.012000	0.0	0.0	0.	682.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIN	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.500

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
300.00	6.00	680.10	680.10	682.00	681.06	0.96	0.0	0.0	678.30
876.	49.	738.	90.	23.	86.	44.	0.	0.	678.80
0.0	2.04	0.54	2.04	0.055	0.035	0.055	0.0	674.10	1147.94
0.006843	300.	300.	300.	0	19	1	0.0	98.54	1246.48

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
2200.00	6.32	703.11	703.11	0.0	704.51	1.39	17.42	0.0	705.20
837.	0.	522.	315.	0.	47.	58.	6.	3.	696.90
0.06	6.0	11.22	5.42	0.055	0.035	0.055	0.035	696.80	1146.09
0.013151	1900.	1900.	1900.	13	9	1	0.0	36.19	1182.29

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
3225.00	2.26	719.20	719.20	0.0	719.74	0.53	15.10	0.0	719.70
478.	0.	476.	0.	0.	61.	0.	8.	0.	720.20
0.11	0.0	5.87	0.0	0.055	0.035	0.055	0.035	717.00	1085.13
0.013295	1025.	1025.	1025.	10	22	1	0.0	78.39	1163.53

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 HLC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 LEXINGTON-DAVIDSON COUNTY STREAM 18L-20
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-C JOB NO. 6918
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	F0
	-10.	5.	0.	0.	0.012000	0.0	0.0	0.	683.000	0.0
J2	NPROF	IPILOT	PRFVS	XSECV	XSECH	RN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CENV= 0.300

3720 ASSUMED CRITICAL DEPTH

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	
300.00	6.68	680.78	680.78	683.00	681.76	0.97	0.0	0.0	678.30	
1259.	112.	915.	232.	45.	100.	81.	0.	0.	678.80	
0.0	2.50	9.13	2.86	0.055	0.035	0.055	0.0	674.10	1137.96	
0.006430	300.	300.	300.	0	14	1	0.0	111.96	1249.92	

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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	
2200.00	7.47	704.27	714.27	0.0	705.45	1.18	16.30	0.0	705.20	
1199.	32.	643.	494.	32.	59.	89.	9.	5.	696.90	
0.00	1.91	10.85	5.55	0.055	0.035	0.055	0.035	696.80	1084.45	
0.009011	1900.	1900.	1900.	14	2	1	0.0	95.73	1185.18	

7185 MIN SPECIFIC ENERGY

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

300 YEAR FLOOD WATER SUR

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX FL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	T0	EG	TOPWID	STENCL	STENCR	VCH
309	300.00	0.0	0.0	674.10	403.00	678.27	36.87	679.28	19.46	0.0	0.0	8.06
309	300.00	0.0	0.0	674.10	716.00	679.71	83.79	680.68	87.45	0.0	0.0	8.29
309	300.00	0.0	0.0	674.10	876.00	680.10	105.90	681.06	98.54	0.0	0.0	8.54
309	300.00	0.0	0.0	674.10	1259.00	680.78	157.01	681.76	111.96	0.0	0.0	9.13
2224	1900.00	0.0	0.0	696.80	389.00	701.79	37.67	702.79	31.43	0.0	0.0	8.96
2224	1900.00	0.0	0.0	696.80	686.00	702.76	62.59	704.00	34.98	0.0	0.0	10.43
2224	1900.00	0.0	0.0	696.80	837.00	703.11	72.99	704.51	36.19	0.0	0.0	11.22
2224	1900.00	0.0	0.0	696.80	1199.00	704.27	126.31	705.45	95.73	0.0	0.0	10.85
3393	1025.00	0.0	0.0	717.00	210.00	718.62	14.71	719.00	56.38	0.0	0.0	4.98
3393	1025.00	0.0	0.0	717.00	384.00	719.02	27.88	719.52	71.71	0.0	0.0	5.63
3393	1025.00	0.0	0.0	717.00	478.00	719.20	35.34	719.73	78.39	0.0	0.0	5.87
3393	1025.00	0.0	0.0	717.00	711.00	719.56	53.96	720.18	91.90	0.0	0.0	6.36
3443	50.00	0.0	0.0	718.10	210.00	719.72	14.77	720.10	56.46	0.0	0.0	4.96
3443	50.00	0.0	0.0	718.10	384.00	720.13	28.09	720.62	71.92	0.0	0.0	5.60
3443	50.00	0.0	0.0	718.10	478.00	720.30	35.53	720.83	78.55	0.0	0.0	5.85
3443	50.00	0.0	0.0	718.10	711.00	720.66	54.29	721.28	92.11	0.0	0.0	6.33
3467	25.00	0.0	0.0	723.80	210.00	726.08	21.62	726.42	68.96	0.0	0.0	6.87
3467	25.00	0.0	0.0	723.80	384.00	726.45	40.98	726.86	88.49	0.0	0.0	7.44
3467	25.00	0.0	0.0	723.80	478.00	726.59	50.62	727.06	96.13	0.0	0.0	7.79
3467	25.00	0.0	0.0	723.80	711.00	726.90	76.49	727.45	113.08	0.0	0.0	8.29
3633	165.00	732.50	725.30	723.80	210.00	734.02	2607.07	734.02	184.21	0.0	0.0	0.17
3633	165.00	732.50	725.30	723.80	384.00	734.63	2983.97	734.64	190.00	0.0	0.0	0.28
3633	165.00	732.50	725.30	723.80	478.00	734.88	3144.39	734.89	192.35	0.0	0.0	0.33
3633	165.00	732.50	725.30	723.80	711.00	735.40	3487.54	735.40	197.18	0.0	0.0	0.46
3659	25.00	0.0	0.0	724.30	210.00	734.02	1694.88	734.02	168.77	0.0	0.0	0.21
3659	25.00	0.0	0.0	724.30	384.00	734.63	1930.74	734.64	173.51	0.0	0.0	0.36
3659	25.00	0.0	0.0	724.30	478.00	734.86	2030.61	734.89	175.44	0.0	0.0	0.43
3659	25.00	0.0	0.0	724.30	711.00	735.40	2242.74	735.40	179.38	0.0	0.0	0.60
3707	50.00	0.0	0.0	725.60	210.00	734.02	1245.57	734.02	158.81	0.0	0.0	0.26
3707	50.00	0.0	0.0	725.60	384.00	734.63	1451.21	734.64	163.55	0.0	0.0	0.42
3707	50.00	0.0	0.0	725.60	478.00	734.36	1538.91	734.89	165.47	0.0	0.0	0.51
3707	50.00	0.0	0.0	725.60	711.00	735.40	1726.14	735.41	169.42	0.0	0.0	0.71

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH 0	CWSEL DIFF EACH SECTION	CWSEL-SELK	TOPWID	T.W. DIFF	LENGTH
309.000	403.000	678.267	0.0	0.0	0.0	19.456	0.0	300.000
309.000	716.000	679.710	1.443	0.0	0.0	87.447	-67.991	300.000
309.000	876.000	680.095	0.385	0.0	0.0	98.542	-79.085	300.000
309.000	1259.000	680.793	0.698	0.0	0.0	111.964	-92.508	300.000
2224.000	389.000	701.795	0.0	23.528	0.0	31.427	0.0	1900.000
2224.000	686.000	702.777	0.983	23.068	0.0	34.977	-3.550	1900.000
2224.000	837.000	703.114	0.337	23.019	0.0	36.193	-4.765	1900.000
2224.000	1199.000	704.273	1.159	23.490	0.0	95.725	-64.296	1900.000

3225.000	210.000	718.618	0.0	16.823	0.0	56.382	0.0	1025.000
3225.000	384.000	719.024	0.406	16.246	0.0	71.715	-15.333	1025.000
3225.000	478.000	719.200	0.177	16.086	0.0	76.394	-22.013	1025.000
3225.000	711.000	719.558	0.358	15.285	0.0	91.900	-35.519	1025.000
3275.000	210.000	719.720	0.0	1.102	0.0	56.465	0.0	50.000
3275.000	384.000	720.129	0.409	1.106	0.0	71.918	-15.453	50.000
3275.000	478.000	720.304	0.175	1.104	0.0	78.551	-22.086	50.000
3275.000	711.000	720.664	0.359	1.106	0.0	92.113	-35.648	50.000
3300.000	210.000	726.077	0.0	6.357	0.0	68.901	0.0	25.000
3300.000	384.000	726.449	0.373	6.320	0.0	88.492	-19.531	25.000
3300.000	478.000	726.591	0.141	6.286	0.0	96.130	-27.168	25.000
3300.000	711.000	726.699	0.309	6.236	0.0	113.081	-44.119	25.000
3465.000	210.000	734.016	0.0	7.939	0.0	184.209	0.0	165.000
3465.000	384.000	734.634	0.618	8.184	0.0	189.998	-5.789	165.000
3465.000	478.000	734.885	0.251	8.294	0.0	192.349	-8.140	165.000
3465.000	711.000	735.400	0.515	8.501	0.0	197.181	-12.972	165.000
3490.000	210.000	734.016	0.0	0.0	0.0	168.774	0.0	25.000
3490.000	384.000	734.634	0.618	0.0	0.0	173.513	-4.739	25.000
3490.000	478.000	734.884	0.251	-0.001	0.0	175.437	-6.664	25.000
3490.000	711.000	735.399	0.514	-0.001	0.0	179.384	-10.610	25.000
3540.000	210.000	734.016	0.0	0.0	0.0	158.806	0.0	50.000
3540.000	384.000	734.633	0.618	-0.001	0.0	163.545	-4.739	50.000
3540.000	478.000	734.884	0.251	-0.001	0.0	165.470	-6.664	50.000
3540.000	711.000	735.398	0.514	-0.001	0.0	169.419	-10.613	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	3.012	0.0
2	0.0	0.0	4.879	1.867
3	0.0	0.0	5.274	2.262
4	0.0	0.0	7.797	4.785