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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 DAVIDSON CO. BASIN E STREAM 5  
 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	EQ
	-10.	3.	0.	0.	0.013000	0.0	0.0	0.	669.600	0.0
J2	NPROF	IPLOT	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	CWSEL	CRWS	WSELK	EG	HV	HL	ULOSS	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
1450.00	0.60	664.20	0.0	669.60	664.38	0.17	0.0	0.0	664.80
170.	0.	170.	0.	0.	51.	0.	0.	0.	665.30
0.0	0.0	3.33	0.0	0.055	0.035	0.055	0.0	663.60	1105.96
0.012964	1450.	1450.	1450.	0	0	8	0.0	88.88	1194.84

7185 MIN SPECIFIC ENERGY

5720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	ULOSS	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	2.47	675.77	675.77	0.0	676.29	0.52	10.58	0.0	675.80
105.	41.	58.	26.	12.	4.	8.	1.	1.	673.80
0.04	3.39	8.56	3.34	0.055	0.035	0.055	0.035	673.30	1085.55
0.016293	750.	750.	750.	13	26	1	0.0	22.20	1107.75

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T1 DAVIDSON CO. BASIN E. STREAM 5  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	F0
	-10.	4.	0.	0.	0.013000	0.0	0.0	0.	671.600	0.0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHN1M	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= 0.300

SECNO	DEPTH	CWSEL	CRIWS	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
1450.00	0.72	664.52	0.0	671.60	664.53	0.21	0.0	0.0	664.80
226.	0.	226.	0.	0.	61.	0.	0.	0.	665.30
0.0	0.0	3.70	0.0	0.055	0.035	0.055	0.0	663.60	1104.83
0.012838	1450.	1450.	1450.	0	0	8	0.0	90.54	1195.37

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIWS	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	2.73	676.03	676.03	0.0	676.64	0.61	10.73	0.0	673.80
143.	59.	47.	37.	16.	5.	10.	1.	1.	673.80
0.04	3.78	9.47	3.73	0.055	0.035	0.055	0.035	673.30	1033.90
0.017200	750.	750.	750.	14	29	1	0.0	24.88	1108.78

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T1 DAVIDSON CO. BASIN E STREAM 5  
 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	WSLL	FO
	-10.	5.	0.	0.	0.013000	0.0	0.0	0.	672.600	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	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 CEHV= 0.300

SECNO	DEPTH	CWSEL	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
1450.00	0.97	664.57	0.0	672.60	664.88	0.31	0.0	0.0	664.80
377.	0.	377.	0.	0.	84.	0.	0.	0.	665.30
0.0	0.0	4.47	0.0	0.055	0.035	0.055	0.0	663.60	1102.33
0.012920	1450.	1450.	1450.	0	0	8	0.0	94.22	1196.55

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	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	3.31	676.61	676.61	0.0	677.36	0.74	10.93	0.0	673.80
249.	112.	68.	69.	25.	6.	16.	1.	1.	673.80
0.03	4.48	11.08	4.43	0.055	0.035	0.055	0.035	673.30	1080.21
0.017748	750.	750.	750.	13	26	1	0.0	30.86	1111.07

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 GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
A 1450.00	1450.00	0.0	0.0	663.60	79.00	663.98	6.95	664.08	85.64	0.0	0.0	2.49
1450.00	1450.00	0.0	0.0	663.60	170.00	664.20	14.93	664.38	88.88	0.0	0.0	3.33
1450.00	1450.00	0.0	0.0	663.60	226.00	664.32	19.95	664.53	90.54	0.0	0.0	3.70
1450.00	1450.00	0.0	0.0	663.60	377.00	664.57	33.17	664.88	94.22	0.0	0.0	4.47
B 2200.00	750.00	0.0	0.0	673.30	47.00	675.16	3.70	675.56	15.95	0.0	0.0	6.38
2200.00	750.00	0.0	0.0	673.30	105.00	675.77	8.23	676.29	22.20	0.0	0.0	8.56
2200.00	750.00	0.0	0.0	673.30	143.00	676.03	10.90	676.63	24.88	0.0	0.0	9.47
2200.00	750.00	0.0	0.0	673.30	249.00	676.61	18.69	677.36	30.86	0.0	0.0	11.08

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
1450.000	79.000	663.982	0.0	0.0	0.0	85.638	0.0	1450.000
1450.000	170.000	664.203	0.221	0.0	0.0	88.879	-3.241	1450.000
1450.000	226.000	664.315	0.113	0.0	0.0	90.539	-4.901	1450.000
1450.000	377.000	664.566	0.251	0.0	0.0	94.224	-8.586	1450.000
2200.000	47.000	675.159	0.0	11.176	0.0	15.947	0.0	750.000
2200.000	105.000	675.769	0.610	11.566	0.0	22.200	-6.253	750.000
2200.000	143.000	676.030	0.261	11.714	0.0	24.883	-8.936	750.000
2200.000	249.000	676.613	0.583	12.047	0.0	30.863	-14.916	750.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	0.875	0.0
2	0.0	0.0	0.956	0.082
3	0.0	0.0	0.994	0.119
4	0.0	0.0	1.077	0.202

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HOUSTON CONSULTANTS, INC. - LIMITED