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

C
 T1 DAVIDSON COUNTY BASIN C STREAM 14
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	-1.	2.	0.	0.	0.059000	0.0	0.0	0.	723.000	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	201.000	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	176.000	354.000	455.000	715.000	455.000	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	1415.000	1426.000	400.000	400.000	400.000	400.000	0.0	-2.580	0.0
GR	737.900	1000.000	731.500	1100.000	733.400	1200.000	727.400	1300.000	725.700	1400.000	
GR	726.000	1415.000	723.600	1418.000	723.600	1420.000	723.700	1422.000	726.300	1426.000	
GR	725.800	1500.000	737.900	1500.000	0.0	0.0	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	
X1	420.000	14.000	1414.000	1421.000	20.000	20.000	20.000	0.0	0.0	0.0	
GR	733.400	1000.000	728.800	1100.000	727.000	1200.000	725.100	1300.000	725.200	1400.000	
GR	725.200	1414.000	722.200	1415.000	722.300	1416.000	722.400	1418.000	725.700	1421.000	
GR	726.700	1500.000	735.100	1600.000	739.000	1700.000	739.000	1800.000	0.0	0.0	
SB	0.900	1.500	2.500	0.0	7.000	0.010	12.600	0.0	0.0	0.0	
	ROAD PRIVATE DRIVE	MAXCEL	725.1		ROELV	725.7					
X1	432.000	0.0	0.0	0.0	12.000	12.000	12.000	0.0	0.0	0.0	
X2	0.0	0.0	1.000	725.100	725.100	0.0	0.0	0.0	0.0	0.0	
BT	11.000	1000.000	733.400	0.0	1100.000	728.800	0.0	1200.000	727.000	0.0	
BT	1300.000	725.100	0.0	1400.000	725.200	0.0	1414.000	725.200	724.600	1421.000	
BT	725.700	725.100	1500.000	726.700	0.0	1600.000	735.100	0.0	1700.000	739.000	
BT	0.0	1800.000	739.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0	
X1	632.000	12.000	1415.000	1426.000	200.000	200.000	200.000	0.0	0.0	0.0	

GR	737,900	1000,000	731,500	1100,000	733,400	1200,000	727,400	1300,000	725,700	1400,000
GR	726,000	1415,000	723,600	1418,000	723,600	1420,000	723,700	1422,000	726,300	1426,000
GR	725,800	1500,000	737,900	1580,000	0,0	0,0	0,0	0,0	0,0	0,0
QT	5,000	80,000	172,000	229,000	380,000	229,000	0,0	0,0	0,0	0,0

X1	3500,000	7,000	1100,000	1110,000	2868,000	2868,000	2868,000	0,0	0,0	0,0
GR	799,600	1000,000	785,900	1100,000	780,400	1105,000	784,500	1110,000	790,700	1200,000
GR	795,600	1300,000	799,300	1350,000	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

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 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	G	WSEL	FQ
	-10.	3.	0.	0.	0.059000	0.0	0.0	0.	723.500	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIN	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 400.000

SECNO	DEPTH	CWSEL	CRWS	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
3720	CRITICAL	DEPTH	ASSUMED						
400.00	3.12	724.14	724.14	723.50	724.49	0.35	0.0	0.0	723.42
354.	83.	166.	105.	43.	25.	52.	0.	0.	723.72
0.0	1.92	6.63	2.02	0.055	0.035	0.055	0.0	721.02	1340.18
0.009789	400.	400.	400.	0	11	0	0.0	165.88	1506.06

CCHV= 0.100 CEHV= 0.300
 *SECNO 420.000

SECNO	DEPTH	CWSEL	CRWS	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
3685	20	TRIALS	ATTEMPTED	WSEL	CWSEL				
3693	PROBABLE	MINIMUM	SPECIFIC	ENERGY					
3720	CRITICAL	DEPTH	ASSUMED						
420.00	3.68	725.88	725.88	0.0	726.17	0.29	0.24	0.01	725.20
354.	231.	122.	1.	98.	18.	1.	0.	0.	725.70
0.00	2.35	6.66	0.62	0.060	0.040	0.060	0.038	722.20	1258.99
0.015493	20.	20.	20.	20	12	0	0.0	176.16	1435.16

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED
 SB XK XKOR COFO RDLEN BWC BWP BAREA SS ELCHU ELCHD
 ELCHU ELCHD

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 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.059000	0.0	0.0	0.	724.500	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 400.000

SECNO	DEPTH	CWSEL	CRISW	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
3720	CRITICAL	DEPTH	ASSUMED						
400.00	3.23	724.25	724.25	724.50	724.65	0.41	0.0	0.0	723.42
455.	115.	193.	147.	52.	26.	61.	0.	0.	723.72
0.0	2.21	7.36	2.40	0.055	0.035	0.055	0.0	721.02	1333.62
0.011348	400.	400.	400.	0	9	0	0.0	173.18	1506.80

CCHV= 0.100 CEHV= 0.300
 *SECNO 420.000

SECNO	DEPTH	CWSEL	CRISW	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

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY

SECNO	DEPTH	CWSEL	CRISW	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
3720	CRITICAL	DEPTH	ASSUMED						
420.00	3.79	725.99	725.99	0.0	726.31	0.32	0.27	0.01	725.20
455.	314.	138.	3.	117.	19.	3.	0.	0.	725.70
0.00	2.69	7.18	0.90	0.060	0.040	0.060	0.030	722.20	1252.92
0.017004	20.	20.	20.	20	12	0	0.0	191.36	1444.28

SPECIAL BRIDGE

5070,VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB XK XKOR COFO RDLEN BWC BWP BAREA SS ELCHU ELCHD
 BWC BWP BAREA SS ELCHU ELCHD

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 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	5.	0.	0.	0.059000	0.0	0.0	0.	725.000	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

*PROF 4

CCHV= 0.100 CEHV= 0.300
 *SECNO 400.000

SECNO	DEPTH	CWSEL	CRWS	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	ENUST
3720	CRITICAL	DEPTH	ASSUMED						
400.00	3.51	724.53	724.53	725.00	724.99	0.46	0.0	0.0	723.42
715.	208.	245.	261.	78.	29.	84.	0.	0.	723.72
0.0	2.68	8.36	3.10	0.055	0.035	0.055	0.0	721.02	1316.83
0.012560	400.	400.	400.	0	9	0	0.0	191.86	1508.69

CCHV= 0.100 CEHV= 0.300
 *SECNO 420.000

SECNO	DEPTH	CWSEL	CRWS	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	ENUST
3685	20	TRIALS	ATTEMPTED	WSEL	CWSEL				
3693	PROBABLE	MINIMUM	SPECIFIC	ENERGY					
3720	CRITICAL	DEPTH	ASSUMED						
420.00	4.04	726.24	726.24	0.0	726.61	0.37	0.31	0.01	725.20
715.	529.	169.	17.	158.	21.	11.	0.	0.	725.70
0.00	3.36	8.10	1.44	0.060	0.040	0.060	0.038	722.20	1240.04
0.019332	20.	20.	20.	20	12	0	0.0	223.56	1463.61

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB XK XKOR COFG RLEN BWC BWP BAREA SS ELCHU ELCHD

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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	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
* 400.000	400.00	0.0	0.0	176.00	721.02	723.83	723.83	5.21	1358.12	1504.05	73.00	0.0
* 400.000	400.00	0.0	0.0	354.00	721.02	724.14	724.14	6.63	1340.18	1506.05	120.54	0.30
* 400.000	400.00	0.0	0.0	455.00	721.02	724.25	724.25	7.36	1333.62	1506.80	139.45	0.11
* 400.000	400.00	0.0	0.0	715.00	721.02	724.53	724.53	8.36	1316.83	1508.69	191.54	0.29
* 420.000	20.00	0.0	0.0	176.00	722.20	725.65	725.65	4.97	1271.26	1420.95	80.43	0.0
* 420.000	20.00	0.0	0.0	354.00	722.20	725.88	725.88	6.66	1258.99	1435.16	118.04	0.23
* 420.000	20.00	0.0	0.0	455.00	722.20	725.99	725.99	7.18	1252.92	1444.28	139.26	0.12
* 420.000	20.00	0.0	0.0	715.00	722.20	726.24	726.24	8.10	1240.04	1463.61	190.01	0.24
432.000	12.00	725.10	725.10	176.00	722.20	725.69	0.0	4.50	1268.49	1421.00	88.38	0.0
432.000	12.00	725.10	725.10	354.00	722.20	725.95	0.0	5.90	1254.91	1441.29	132.12	0.26
432.000	12.00	725.10	725.10	455.00	722.20	726.07	0.0	6.38	1248.57	1450.81	155.52	0.12
432.000	12.00	725.10	725.10	715.00	722.20	726.34	0.0	7.09	1234.28	1472.25	215.28	0.27
632.000	200.00	0.0	0.0	176.00	723.60	726.65	0.0	3.59	1343.84	1505.65	110.35	0.0
632.000	200.00	0.0	0.0	354.00	723.60	727.12	0.0	4.07	1315.86	1508.80	194.70	0.47
632.000	200.00	0.0	0.0	455.00	723.60	727.32	0.0	4.34	1304.68	1510.05	232.58	0.20
632.000	200.00	0.0	0.0	715.00	723.60	727.70	0.0	4.88	1295.08	1512.53	312.33	0.38
* 3500.000	2868.00	0.0	0.0	80.00	780.40	783.61	783.61	7.30	1102.08	1108.91	10.96	0.0
* 3500.000	2868.00	0.0	0.0	172.00	780.40	784.85	784.85	8.15	1100.96	1115.06	21.87	1.24
* 3500.000	2868.00	0.0	0.0	229.00	780.40	785.50	785.50	7.91	1100.36	1124.57	34.42	0.65
* 3500.000	2868.00	0.0	0.0	380.00	780.40	786.42	786.42	8.41	1096.17	1137.94	64.14	0.92

721.02 721.02

SUMMARY OF ERRORS

CAUTION SECNO= 400.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 400.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 400.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 400.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 420.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 420.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 420.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 420.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 420.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 420.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 420.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 420.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 420.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 420.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 420.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 420.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

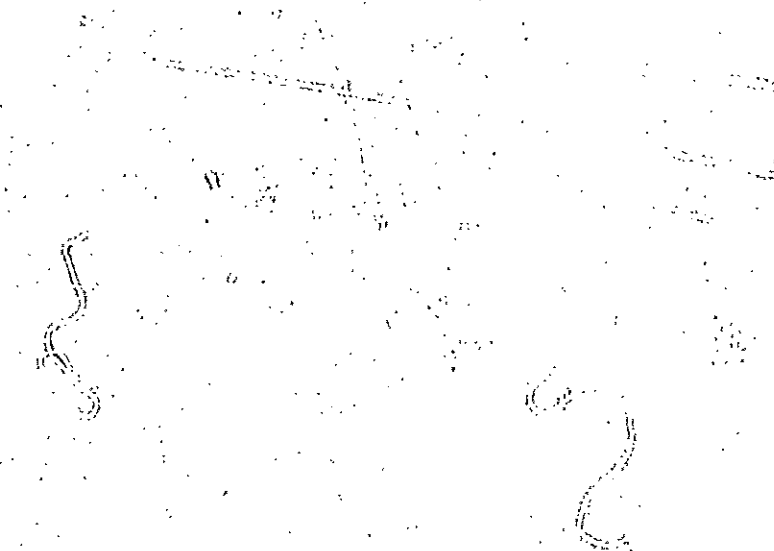
CAUTION SECNO= 3500.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3500.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3500.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 3500.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3500.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3500.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 3500.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3500.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3500.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 3500.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3500.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3500.000 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		
		10E	2E	0.2E
400,000	0.	-0.4	-0.1	0.3
420,000	20.	-0.3	-0.1	0.2
432,000	32.	-0.4	-0.1	0.3
632,000	232.	-0.7	-0.2	0.4
3500,000	3100.	-1.9	-0.7	0.9
WEIGHTED AVG FOR REACH		-1.2	-0.4	0.6

FHF FOR THE REACH = 010 WITH 92.5% OF THE REACH WITHIN 0.5 FEET ZONE FOR THE REACH = A 2



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