

1	*****											1
2	HEC2 VERSION UPDATED JAN 1975											2
3	ERROR CORRECTIONS 01,02,03,04,05,06,07,08											3
4	MODIFICATIONS 52,53,54,55,56,57,58											4
5	*****											5
6												6
7												7
8												8
9												9
10	T1	TRIB. 6 BASIN 20										10
11	T2	FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855										11
12	T3	10 YEAR FLOOD WATER SURFACE PROFILE										12
13												13
14	J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG	14
15												15
16		-1.	2.	0.	0.	0.003000	0.0	0.5	0.	212.000	0.0	16
17												17
18	J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	18
19												19
20		-1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21												21
22	J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	0.0	0.0	0.0	22
23	NC	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0	23
24	QT	5.000	900.000	1800.000	2400.000	4550.000	1325.000	0.0	0.0	0.0	0.0	24
25	ET	5.000	0.0	0.0	0.0	0.0	-7.400	0.0	0.0	0.0	0.0	25
26												26
27	X1	700.000	16.000	1220.000	1242.000	700.000	700.000	700.000	0.0	0.0	0.0	27
28	GR	230.700	1000.000	223.200	1050.000	211.500	1150.000	212.500	1200.000	212.700	1220.000	28
29	GR	208.700	1226.000	208.800	1238.000	212.900	1242.000	213.400	1315.000	215.000	1400.000	29
30	GR	215.000	1550.000	215.300	1600.000	217.500	1700.000	220.800	1800.000	227.100	1900.000	30
31	GR	233.100	2000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
32												32
33	X1	3150.000	14.000	1713.000	1736.000	2450.000	2450.000	2450.000	0.0	-2.400	0.0	33
34	GR	246.100	1220.000	233.400	1300.000	227.600	1400.000	225.500	1500.000	226.000	1600.000	34
35	GR	227.300	1713.000	222.800	1717.000	221.900	1722.000	222.800	1727.000	227.400	1736.000	35
36	GR	226.900	1800.000	229.300	1900.000	240.200	2000.000	244.700	2050.000	0.0	0.0	36
37												37
38	X1	3200.000	13.000	1536.000	1558.000	50.000	50.000	50.000	0.0	0.0	0.0	38
39	X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39
40	GR	240.800	1000.000	236.400	1100.000	230.400	1200.000	227.600	1300.000	226.100	1400.000	40
41	GR	226.800	1500.000	226.400	1536.000	219.800	1547.000	226.400	1558.000	226.800	1600.000	41
42	GR	228.700	1700.000	236.600	1800.000	240.800	1875.000	0.0	0.0	0.0	0.0	42
43	SB	0.900	1.500	2.600	0.0	53.000	2.000	364.400	0.0	0.0	0.0	43
44												44
45	X1	3220.000	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.0	0.0	45
46	X2	0.0	0.0	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46
47	X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47
48	BT	10.000	1200.000	233.400	230.400	1300.000	231.400	227.600	1400.000	231.000	226.100	48
49	BT	1500.000	231.400	226.800	1527.000	231.600	231.000	1562.000	231.500	229.900	1580.000	49
50	BT	231.500	229.800	1600.000	231.400	226.800	1700.000	233.000	228.700	1800.000	236.600	50
51	BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51
52												52
53	X1	3270.000	14.000	1713.000	1736.000	50.000	50.000	50.000	0.0	-2.000	0.0	53
54	GR	246.100	1220.000	233.400	1300.000	227.600	1400.000	225.500	1500.000	226.000	1600.000	54
55	GR	227.300	1713.000	222.800	1717.000	221.900	1722.000	222.800	1727.000	227.400	1736.000	55
56	GR	226.900	1800.000	229.300	1900.000	240.200	2000.000	244.700	2050.000	0.0	0.0	56
57												57
	X1	3700.000	15.000	1450.000	1468.000	430.000	430.000	430.000	0.0	0.0	0.0	
	GR	244.500	1000.000	230.500	1100.000	223.200	1200.000	222.800	1300.000	223.400	1400.000	
	GR	223.700	1450.000	218.200	1454.000	217.600	1456.000	218.800	1463.000	223.800	1468.000	

SUMMARY PRINTOUT FOR MULTIPLE PROFILES													
10 YEAR FLOOD WATER SURF													
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	
700.00	700.00	0.0	0.0	208.70	900.00	214.61	164.37	214.71	255.56	0.0	0.0	3.62	
3150.00	2450.00	0.0	0.0	219.50	900.00	225.01	111.65	225.14	412.08	0.0	0.0	4.22	
3200.00	50.00	0.0	0.0	219.80	900.00	227.25	77.47	227.74	300.94	0.0	0.0	6.71	
3220.00	20.00	231.00	231.00	219.80	900.00	227.29	79.98	227.74	304.73	0.0	0.0	6.53	
3270.00	50.00	0.0	0.0	219.90	900.00	227.81	649.18	227.82	542.80	0.0	0.0	1.03	
3700.00	430.00	0.0	0.0	217.60	900.00	227.86	1038.14	227.87	511.89	0.0	0.0	0.74	
9900.00	6200.00	0.0	0.0	257.20	425.00	258.75	14.28	259.07	149.84	0.0	0.0	4.96	
14500.00	4600.00	0.0	0.0	277.90	425.00	285.61	97.45	285.72	94.80	0.0	0.0	2.96	
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH					
700.000	900.000	214.605	0.0	0.0	0.0	255.557	0.0	700.000					
3150.000	900.000	225.010	0.0	10.404	0.0	412.080	0.0	2450.000					
3200.000	900.000	227.255	0.0	2.245	0.0	300.936	0.0	50.000					
3220.000	900.000	227.287	0.0	0.032	0.0	304.731	0.0	20.000					
3270.000	900.000	227.812	0.0	0.525	0.0	542.799	0.0	50.000					
3700.000	900.000	227.864	0.0	0.052	0.0	511.894	0.0	430.000					
9900.000	425.000	258.746	0.0	30.882	0.0	149.838	0.0	6200.000					
14500.000	425.000	285.610	0.0	26.864	0.0	94.803	0.0	4600.000					
DATA FOR LAST CROSS SECTION													
PROFILE	TYPE	ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF								
1	0.0	0.0	0.0	85.026	0.0								

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

T1 TRIB. 6 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	3.	0.	0.	0.003000	0.0	0.5	0.	214.000	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FM	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
700.00	6.98	215.68	0.0	214.00	215.80	0.12	0.0	0.0	212.70
1800.	666.	550.	583.	321.	132.	443.	0.	0.	212.90
0.0	2.08	4.16	1.32	0.085	0.060	0.085	0.0	208.70	1114.25
0.003041	700.	700.	700.	0	0	4	0.0	503.12	1617.37

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
3150.00	6.29	225.79	0.0	0.0	225.92	0.13	10.12	0.00	224.90
1800.	1218.	455.	127.	585.	99.	101.	47.	27.	225.00
0.26	2.08	4.61	1.25	0.085	0.060	0.085	0.060	219.50	1389.81
0.005931	2450.	2450.	2450.	4	0	1	0.0	463.97	1853.78

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
3200.00	8.00	227.80	227.80	0.0	228.42	0.63	0.49	0.0	226.40
1800.	732.	892.	176.	273.	103.	76.	48.	28.	226.40
0.26	2.68	8.63	2.30	0.085	0.060	0.085	0.060	219.80	1292.98
0.018960	50.	50.	50.	30	12	1	0.0	359.47	1652.45

1 *****
 2 HEC2 VERSION UPDATED JAN 1975
 3 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 4 MODIFICATIONS 52,53,54,55,56,57,58
 5 *****
 6
 7
 8
 9

10 T1 TRIB. 6 BASIN 20
 11 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 12 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	4.	0.	0.	0.003000	0.0	0.5	0.	216.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	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	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
700.00	7.46	216.16	0.0	216.00	216.28	0.12	0.0	0.0	212.70
2400.	936.	625.	939.	372.	143.	629.	0.	0.	212.90
0.0	2.24	4.37	1.49	0.085	0.060	0.085	0.0	208.70	1110.14
0.003036	700.	700.	700.	0	0	4	0.0	529.11	1639.25
3150.00	6.69	226.19	0.0	0.0	226.33	0.14	10.04	0.01	224.90
2400.	1652.	522.	226.	713.	108.	151.	60.	29.	225.00
0.24	2.32	4.85	1.50	0.085	0.060	0.085	0.060	219.50	1383.05
0.005830	2450.	2450.	2450.	4	0	1	0.0	487.07	1870.12

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3200.00	8.28	228.00	228.08	0.0	228.74	0.66	0.50	0.0	226.40
2400.	1096.	1022.	282.	344.	110.	105.	60.	29.	226.40
0.25	3.19	9.32	2.68	0.085	0.060	0.085	0.060	219.80	1282.81
0.020445	50.	50.	50.	30	13	1	0.0	384.63	1667.44

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

T1 TRIP. 6 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ
 -10. 5. 0. 0. 0.003000 0.0 0.5 0. 216.000 0.0

J2 NPROF IPLLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE
 15.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

CCHV= 0.100 CEHV= 0.300

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

700.00	8.76	217.46	0.0	216.00	217.59	0.13	0.0	0.0	212.70
4550.	1380.	844.	2327.	521.	171.	1180.	0.	0.	212.90
0.0	2.65	4.92	1.97	0.085	0.060	0.085	0.0	208.70	1099.10
0.003021	700.	709.	700.	0	0	4	0.0	598.85	1697.96

3150.00	7.78	227.28	0.0	0.0	227.46	0.17	9.86	0.01	224.90
4550.	3148.	728.	674.	1085.	133.	320.	96.	32.	225.00
0.21	2.90	5.47	2.11	0.085	0.060	0.085	0.060	219.50	1364.16
0.005620	2450.	2450.	2450.	4	0	1	0.0	539.31	1903.47

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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

3200.00	9.01	228.81	228.81	0.0	229.61	0.81	0.52	0.0	226.40
4550.	2408.	1409.	732.	536.	126.	198.	97.	33.	226.40
0.22	4.49	11.23	3.69	0.005	0.060	0.085	0.060	219.80	1256.96
0.024751	50.	50.	50.	30	12	1	0.0	444.37	1701.33

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	
9	700.00	700.00	0.0	0.0	208.70	900.00	214.61	164.37	214.71	255.56	0.0	0.0	3.62
10	700.00	700.00	0.0	0.0	208.70	1800.00	215.68	326.43	215.80	503.12	0.0	0.0	4.16
11	700.00	700.00	0.0	0.0	208.70	2400.00	216.16	435.54	216.28	529.11	0.0	0.0	4.37
12	700.00	700.00	0.0	0.0	208.70	4550.00	217.45	827.83	217.59	598.85	0.0	0.0	4.92
14	3150.00	2450.00	0.0	0.0	219.50	900.00	225.01	111.65	225.14	412.08	0.0	0.0	4.22
15	3150.00	2450.00	0.0	0.0	219.50	1800.00	225.79	233.73	225.92	463.97	0.0	0.0	4.61
16	3150.00	2450.00	0.0	0.0	219.50	2400.00	226.19	314.31	226.33	487.07	0.0	0.0	4.85
17	3150.00	2450.00	0.0	0.0	219.50	4550.00	227.28	606.94	227.46	539.31	0.0	0.0	5.47
20	3200.00	50.00	0.0	0.0	219.80	900.00	227.25	77.47	227.74	300.94	0.0	0.0	6.71
21	3200.00	50.00	0.0	0.0	219.80	1800.00	227.80	130.72	228.42	359.47	0.0	0.0	8.63
22	3200.00	50.00	0.0	0.0	219.80	2400.00	228.08	167.85	228.74	384.63	0.0	0.0	9.32
23	3200.00	50.00	0.0	0.0	219.80	4550.00	228.81	289.21	229.61	444.37	0.0	0.0	11.23
24	3220.00	20.00	231.00	231.00	219.80	900.00	227.29	79.98	227.74	304.73	0.0	0.0	6.53
25	3220.00	20.00	231.00	231.00	219.80	1800.00	227.84	136.35	228.42	363.55	0.0	0.0	8.33
26	3220.00	20.00	231.00	231.00	219.80	2400.00	228.13	174.85	228.74	388.97	0.0	0.0	9.01
27	3220.00	20.00	231.00	231.00	219.80	4550.00	228.87	302.42	229.61	447.54	0.0	0.0	10.82
29	3270.00	50.00	0.0	0.0	219.90	900.00	227.81	649.18	227.82	542.80	0.0	0.0	1.03
30	3270.00	50.00	0.0	0.0	219.90	1800.00	228.51	893.39	228.52	561.15	0.0	0.0	1.61
31	3270.00	50.00	0.0	0.0	219.90	2400.00	228.84	1023.09	228.86	569.93	0.0	0.0	1.93
32	3270.00	50.00	0.0	0.0	219.90	4550.00	229.74	1421.23	229.79	594.05	0.0	0.0	2.87
34	3700.00	430.00	0.0	0.0	217.60	900.00	227.86	1038.14	227.87	511.89	0.0	0.0	0.74
35	3700.00	430.00	0.0	0.0	217.60	1800.00	228.62	1342.00	228.63	530.47	0.0	0.0	1.22
36	3700.00	430.00	0.0	0.0	217.60	2400.00	229.00	1506.90	229.02	539.72	0.0	0.0	1.49
37	3700.00	430.00	0.0	0.0	217.60	4550.00	230.06	2017.63	230.10	565.69	0.0	0.0	2.26
39	4900.00	6200.00	0.0	0.0	257.20	425.00	258.75	14.28	259.07	149.84	0.0	0.0	4.96
40	9900.00	6200.00	0.0	0.0	257.20	875.00	259.16	30.18	259.62	188.73	0.0	0.0	5.90
41	9900.00	6200.00	0.0	0.0	257.20	1230.00	259.41	43.22	259.96	206.66	0.0	0.0	6.72
42	9900.00	6200.00	0.0	0.0	257.20	2375.00	260.02	87.28	260.80	233.30	0.0	0.0	8.72
44	14500.00	4600.00	0.0	0.0	277.90	425.00	285.61	97.45	285.72	94.80	0.0	0.0	2.96
45	14500.00	4600.00	0.0	0.0	277.90	875.00	287.19	195.51	287.32	132.69	0.0	0.0	3.59
46	14500.00	4600.00	0.0	0.0	277.90	1230.00	288.05	271.00	288.19	154.08	0.0	0.0	3.92
47	14500.00	4600.00	0.0	0.0	277.90	2375.00	288.74	343.57	289.09	169.74	0.0	0.0	6.32
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH					
51	700.000	900.000	214.605	0.0	0.0	255.557	0.0	700.000					
52	700.000	1800.000	215.682	1.077	0.0	503.119	-247.562	700.000					
53	700.000	2400.000	216.164	0.481	0.0	529.113	-273.555	700.000					
54	700.000	4550.000	217.455	1.291	0.0	598.853	-343.295	700.000					
55	3150.000	900.000	225.010	0.0	10.404	412.080	0.0	2450.000					
56	3150.000	1800.000	225.791	0.781	10.109	463.971	-51.890	2450.000					
57	3150.000	2400.000	226.187	0.396	10.024	487.067	-74.987	2450.000					
58	3150.000	4550.000	227.282	1.094	9.827	539.311	-127.230	2450.000					

Handwritten notes and corrections on the left side of the table, including section numbers and discharge values:

- 3600
- 3150
- 3150
- 3700
- 3200
- 3200
- 3200
- 3720
- 3220
- 3220
- 3770
- 3270
- 3270
- 3270
- 4200
- 3700
- 3700
- 3700
- 4200
- 4900
- 9900
- 9900
- 9900
- 15700
- 14500
- 14500
- 14500

	3200.000	900.000	227.255	0.0	2.245	0.0	300.936	0.0	50.000	
	3200.000	1800.000	227.797	0.542	2.006	0.0	359.471	-58.536	50.000	
	3200.000	2400.000	228.081	0.285	1.894	0.0	384.630	-83.694	50.000	
	3200.000	4550.000	228.805	0.724	1.523	0.0	444.373	-143.437	50.000	
	3220.000	900.000	227.287	0.0	0.032	0.0	304.731	0.0	20.000	
1	3220.000	1800.000	227.843	0.556	0.046	0.0	363.552	-58.821	20.000	1
2	3220.000	2400.000	228.130	0.288	0.049	0.0	388.975	-84.244	20.000	2
3	3220.000	4550.000	228.871	0.740	0.066	0.0	447.542	-142.811	20.000	3
4										4
5	3270.000	900.000	227.812	0.0	0.525	0.0	542.799	0.0	50.000	5
6	3270.000	1800.000	228.505	0.693	0.663	0.0	561.151	-18.352	50.000	6
7	3270.000	2400.000	228.838	0.333	0.707	0.0	569.934	-27.135	50.000	7
8	3270.000	4550.000	229.744	0.906	0.873	0.0	594.055	-51.256	50.000	8
9										9
10	3700.000	900.000	227.864	0.0	0.052	0.0	511.894	0.0	430.000	10
11	3700.000	1800.000	228.624	0.760	0.119	0.0	530.468	-18.574	430.000	11
12	3700.000	2400.000	229.003	0.378	0.165	0.0	539.720	-27.826	430.000	12
13	3700.000	4550.000	230.065	1.062	0.321	0.0	565.687	-53.793	430.000	13
14										14
15	9900.000	425.000	258.746	0.0	30.882	0.0	149.838	0.0	6200.000	15
16	9900.000	875.000	259.161	0.416	30.538	0.0	188.733	-38.895	6200.000	16
17	9900.000	1230.000	259.408	0.246	30.405	0.0	206.665	-56.827	6200.000	17
18	9900.000	2375.000	260.018	0.610	29.953	0.0	233.296	-83.458	6200.000	18
19										19
20	14500.000	425.000	285.610	0.0	26.864	0.0	94.803	0.0	4600.000	20
21	14500.000	875.000	287.188	1.578	28.027	0.0	132.689	-37.885	4600.000	21
22	14500.000	1230.000	288.051	0.863	28.643	0.0	154.076	-59.272	4600.000	22
23	14500.000	2375.000	288.739	0.688	28.721	0.0	169.736	-74.933	4600.000	23
24										24

DATA FOR LAST CROSS SECTION						
PROFILE	TYPE	ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF	
						25
						26
						27
						28
						29
	1	0.0	0.0	85.026	0.0	30
	2	0.0	0.0	101.925	16.899	31
	3	0.0	0.0	107.460	22.434	32
	4	0.0	0.0	114.384	29.358	33
						34
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						75
						76

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

T1 TRIB. 6 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-1.	4.	0.	0.	0.003000	0.0	0.5	0.	216.000	0.0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	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	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	900.000	1800.000	2400.000	4550.000	2400.000	0.0	0.0	0.0	0.0
EY	5.000	0.0	0.0	0.0	0.0	-5.400	0.0	0.0	0.0	0.0
X1	700.000	16.000	1220.000	1242.000	700.000	700.000	700.000	0.0	0.0	0.0
GR	230.700	1000.000	223.200	1050.000	211.500	1150.000	212.500	1200.000	212.700	1220.000
GR	208.700	1226.000	208.800	1238.000	212.900	1242.000	213.400	1315.000	215.000	1400.000
GR	215.000	1550.000	215.300	1600.000	217.500	1700.000	220.800	1800.000	227.100	1900.000
GR	235.100	2000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	3150.000	14.000	1713.000	1736.000	2450.000	2450.000	2450.000	0.0	-2.400	0.0
GR	246.100	1220.000	233.400	1300.000	227.600	1400.000	225.500	1500.000	226.000	1600.000
GR	227.300	1713.000	222.800	1717.000	221.900	1722.000	222.800	1727.000	227.400	1736.000
GR	226.900	1800.000	229.300	1900.000	240.200	2000.000	244.700	2050.000	0.0	0.0
X1	3200.000	13.000	1536.000	1558.000	50.000	50.000	50.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	240.800	1000.000	236.400	1100.000	230.400	1200.000	227.600	1300.000	226.100	1400.000
GR	226.800	1500.000	226.400	1536.000	219.800	1547.000	226.400	1558.000	226.800	1600.000
GR	228.700	1700.000	236.600	1800.000	240.800	1875.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.600	0.0	53.000	2.000	364.400	0.0	0.0	0.0
X1	3220.000	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BT	10.000	1200.000	233.400	230.400	1300.000	231.400	227.600	1400.000	231.000	226.100
BT	1500.000	231.400	226.800	1527.000	231.600	231.000	1562.000	231.500	229.900	1580.000
BT	231.500	229.800	1600.000	231.400	226.800	1700.000	233.000	228.700	1800.000	236.600
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	3270.000	14.000	1713.000	1736.000	50.000	50.000	50.000	0.0	-2.000	0.0
GR	246.100	1220.000	233.400	1300.000	227.600	1400.000	225.500	1500.000	226.000	1600.000
GR	227.300	1713.000	222.800	1717.000	221.900	1722.000	222.800	1727.000	227.400	1736.000
GR	226.900	1800.000	229.300	1900.000	240.200	2000.000	244.700	2050.000	0.0	0.0
X1	3700.000	15.000	1450.000	1468.000	430.000	430.000	430.000	0.0	0.0	0.0
GR	244.500	1000.000	230.500	1100.000	223.200	1200.000	222.800	1300.000	223.400	1400.000
GR	223.700	1450.000	218.200	1454.000	217.600	1456.000	218.800	1463.000	223.800	1468.000

1	SUMMARY PRINTOUT FOR MULTIPLE PROFILES													1
2														2
3														3
4	100 YEAR FLOOD WATER SUR													4
5														5
6	SECTION	CHANNEL	MIN EL OF	MAX EL OF	MIN EL	DISCHARGE	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH	6
7	NUMBER	LENGTH	ROADWAY	LOW CHORD	GROUND	(CFS)								7
8														8
9	700.00	700.00	0.0	0.0	208.70	2400.00	216.16	435.54	216.28	529.11	0.0	0.0	4.37	9
10														10
11	3150.00	2450.00	0.0	0.0	219.50	2400.00	226.19	314.31	226.33	487.07	0.0	0.0	4.85	11
12														12
13	3200.00	50.00	0.0	0.0	219.80	2400.00	228.08	167.85	228.74	384.63	0.0	0.0	9.32	13
14														14
15	3220.00	20.00	231.00	231.00	219.80	2400.00	228.13	174.85	228.74	388.97	0.0	0.0	9.01	15
16														16
17	3270.00	50.00	0.0	0.0	219.90	2400.00	228.84	1023.00	228.86	569.93	0.0	0.0	1.93	17
18														18
19	3700.00	430.00	0.0	0.0	217.60	2400.00	229.00	1506.90	229.02	539.72	0.0	0.0	1.49	19
20														20
21	9900.00	6200.00	0.0	0.0	257.20	1230.00	259.41	43.22	259.96	206.66	0.0	0.0	6.72	21
22														22
23	14500.00	4600.00	0.0	0.0	277.90	1230.00	288.05	271.00	288.19	154.08	0.0	0.0	3.92	23
24														24
25	SECTION	DISCHARGE	CWSEL	CWSEL DIFF	CWSEL DIFF	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH					25
26	NUMBER	CFS		EACH Q	EACH SECTION									26
27	700.000	2400.000	216.164	0.0	0.0	0.0	529.113	0.0	700.000					27
28														28
29	3150.000	2400.000	226.187	0.0	10.024	0.0	487.067	0.0	2450.000					29
30														30
31	3200.000	2400.000	228.081	0.0	1.894	0.0	384.630	0.0	50.000					31
32														32
33	3220.000	2400.000	228.130	0.0	0.049	0.0	388.975	0.0	20.000					33
34														34
35	3270.000	2400.000	228.838	0.0	0.707	0.0	569.934	0.0	50.000					35
36														36
37	3700.000	2400.000	229.003	0.0	0.165	0.0	539.720	0.0	430.000					37
38														38
39	9900.000	1230.000	259.402	0.0	30.405	0.0	206.665	0.0	6200.000					39
40														40
41	14500.000	1230.000	288.051	0.0	28.643	0.0	154.076	0.0	4600.000					41
42														42
43	DATA FOR LAST CROSS SECTION													43
44	PROFILE	TYPE	ENC	TARGET	TOP WIDTH	TOP WIDTH							44	
45					AREA-ACRES	AREA-DIFF							45	
46													46	
47	1	0.0		0.0	107.460	0.0							47	
48													48	
49													49	
50													50	
51													51	
52													52	
53													53	
54													54	
55													55	
56													56	
57													57	

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

T1 IRIB. 6 BASIN 20
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	217.160	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15,000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300
 2800 NAT Q1= 435.54 WSEL= 216.16 ENC Q1= 435.54 WSEL= 216.66 RATIO= 0.0

NAT Q1= 570. RATIOS LOB,CH,ROB= 0.3283 0.2250 0.4467 WSEL= 216.66

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

3470 ENCROACHMENT STATIONS= 1158.7 1416.3 TYPE= 4 TARGET= 0.237

700.00	8.46	217.16	0.0	216.16	217.27	0.11	0.0	0.0	212.70
2400.	693.	657.	1050.	301.	165.	579.	0.	0.	212.90
0.0	2.31	3.98	1.81	0.085	0.060	0.085	0.0	208.70	1158.72
0.002082	700.	700.	700.	0	0	1	0.0	257.53	1416.25

2800 NAT Q1= 314.31 WSEL= 226.19 ENC Q1= 314.31 WSEL= 226.69 RATIO= 0.0
 NAT Q1= 436. RATIOS LOB,CH,ROB= 0.6943 0.1860 0.1197 WSEL= 226.69

3470 ENCROACHMENT STATIONS= 1514.3 1802.9 TYPE= 4 TARGET= 0.279

3150.00	6.82	226.32	0.0	226.19	226.58	0.26	9.27	0.04	224.90
2400.	1483.	67.	238.	487.	111.	106.	49.	15.	225.00
0.18	3.05	6.10	2.24	0.085	0.060	0.085	0.060	219.50	1514.26
0.008886	2450.	2450.	2450.	3	0	1	0.0	288.68	1802.95

2800 NAT Q1= 167.85 WSEL= 228.08 ENC Q1= 167.85 WSEL= 228.58 RATIO= 0.0
 NAT Q1= 247. RATIOS LOB,CH,ROB= 0.5134 0.3391 0.1475 WSEL= 228.58

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT

1 SUMMARY PRINTOUT FOR MULTIPLE PROFILES

4 100 YEAR FLOODWAY

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
A	700.00	700.00	0.0	0.0	2400.00	216.16	435.54	216.28	529.11	0.0	0.0	4.37
	700.00	700.00	0.0	0.0	2400.00	217.16	525.93	217.27	257.53	1158.72	1416.25	3.98
B	3150.00	2450.00	0.0	0.0	2400.00	226.19	314.31	226.33	487.07	0.0	0.0	4.85
	3150.00	2450.00	0.0	0.0	2400.00	226.32	254.60	226.58	288.68	1514.26	1802.95	6.10
	3200.00	50.00	0.0	0.0	2400.00	228.08	167.85	228.74	384.63	0.0	0.0	9.32
	3200.00	50.00	0.0	0.0	2400.00	228.51	158.37	229.51	166.25	1426.08	1592.33	10.44
	3220.00	20.00	231.00	231.00	2400.00	228.13	174.85	228.74	388.97	0.0	0.0	9.01
	3220.00	20.00	231.00	231.00	2400.00	228.63	255.94	229.51	433.14	0.0	0.0	6.56
C	3270.00	50.00	0.0	0.0	2400.00	228.84	1023.09	228.86	569.93	0.0	0.0	1.93
	3270.00	50.00	0.0	0.0	2400.00	229.57	1145.45	229.59	408.97	1454.79	1863.75	1.85
D	3700.00	430.00	0.0	0.0	2400.00	229.00	1506.90	229.02	539.72	0.0	0.0	1.49
	3700.00	430.00	0.0	0.0	2400.00	229.71	1591.50	229.73	385.67	1213.63	1599.30	1.48
	9900.00	6200.00	0.0	0.0	1230.00	259.41	43.22	259.96	206.66	0.0	0.0	6.72
	9900.00	6200.00	0.0	0.0	1230.00	259.96	42.59	260.67	134.34	1200.41	1334.75	9.04
	14500.00	4600.00	0.0	0.0	1230.00	288.05	271.00	288.19	154.08	0.0	0.0	3.92
	14500.00	4600.00	0.0	0.0	1230.00	288.54	272.82	288.71	76.63	1166.83	1243.47	4.05

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
A	700.000	2400.000	216.164	0.0	0.0	529.113	0.0	700.000
	700.000	2400.000	217.160	0.996	0.0	257.534	271.579	700.000
B	3150.000	2400.000	226.187	0.0	10.024	487.067	0.0	2450.000
	3150.000	2400.000	226.323	0.135	9.163	288.681	198.386	2450.000
BR	3200.000	2400.000	228.081	0.0	1.094	384.630	0.0	50.000
	3200.000	2400.000	228.507	0.425	2.184	166.249	218.381	50.000
BR	3220.000	2400.000	228.130	0.0	0.049	388.975	0.0	20.000
	3220.000	2400.000	228.630	0.500	0.124	433.145	-44.170	20.000
C	3270.000	2400.000	228.838	0.0	0.707	569.934	0.0	50.000
	3270.000	2400.000	229.571	0.733	0.940	408.966	160.968	50.000
D	3700.000	2400.000	229.003	0.0	0.165	539.720	0.0	430.000
	3700.000	2400.000	229.712	0.709	0.141	385.667	154.053	430.000
BR	9900.000	1230.000	259.408	0.0	30.405	206.665	0.0	6200.000
	9900.000	1230.000	259.959	0.552	30.248	134.339	72.326	6200.000
BR	14500.000	1230.000	288.051	0.0	28.643	154.076	0.0	4600.000
	14500.000	1230.000	288.537	0.486	28.578	76.635	77.441	4600.000

DATA FOR LAST CROSS SECTION
 PROFILE TYPE ENC TARGET TOP WIDTH TOP WIDTH