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

T1 STREAM 3F NEIL BRANCH FUGUAY VARINA, WAKE CO.
 T2 FIS, WAKE COUNTY JOB NO. 206855
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-1.	2.	0.	0.	0.010000	0.0	0.0	0.	313.000	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHN1M	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	29.000	0.0	0.0
NC	0.085	0.085	0.077	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	680.000	1180.000	1400.000	2400.000	1400.000	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	50.000	15.000	1386.000	1406.000	50.000	50.000	50.000	0.0	-2.000	0.0
GR	333.100	1000.000	329.000	1100.000	323.600	1200.000	319.500	1300.000	315.300	1386.000
GR	311.700	1390.000	311.600	1396.000	312.100	1402.000	315.200	1406.000	316.400	1424.000
GR	322.800	1500.000	327.500	1600.000	330.400	1700.000	332.700	1800.000	333.100	1811.000
X1	100.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0
X1	150.000	23.000	1430.000	1442.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	333.200	1000.000	328.500	1100.000	323.700	1200.000	319.800	1300.000	318.500	1340.000
GR	314.300	1426.000	313.100	1430.000	311.100	1431.000	310.600	1432.500	311.100	1434.000
GR	313.100	1435.000	313.100	1437.000	311.100	1438.000	310.600	1439.500	311.100	1441.000
GR	313.100	1442.000	314.200	1446.000	315.400	1464.000	317.900	1500.000	318.600	1600.000
GR	319.100	1700.000	318.500	1800.000	317.900	1900.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	10.000	0.010	39.300	0.0	0.0	0.0
X1	200.000	0.0	0.0	0.0	58.000	58.000	58.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	315.600	0.0	0.0	0.0	0.0	0.0	0.0
BT	20.000	1000.000	333.200	0.0	1100.000	328.500	0.0	1200.000	323.700	0.0
BT	1300.000	319.800	0.0	1400.000	318.500	0.0	1430.000	318.100	313.100	1431.000
BT	318.100	315.100	1432.500	318.100	315.600	1434.000	318.100	315.100	1435.000	318.100
BT	313.100	1437.000	318.100	313.100	1438.000	318.100	315.100	1439.500	318.100	315.600
BT	1441.000	318.100	315.100	1442.000	318.100	313.100	1500.000	317.900	0.0	1600.000
BT	318.600	0.0	1700.000	319.100	0.0	1800.000	318.500	0.0	1900.000	317.900
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	258.000	15.000	1386.000	1406.000	50.000	50.000	50.000	0.0	-0.500	0.0
GR	333.100	1000.000	329.000	1100.000	323.600	1200.000	319.500	1300.000	315.300	1386.000
GR	311.700	1390.000	311.600	1396.000	312.100	1402.000	315.200	1406.000	316.400	1424.000
GR	322.800	1500.000	327.500	1600.000	330.400	1700.000	332.700	1800.000	333.100	1811.000
X1	300.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0
NC	0.045	0.045	0.045	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	620.000	1090.000	1310.000	2265.000	1310.000	0.0	0.0	0.0	0.0
X2	1800.000	11.000	1202.000	1237.000	1492.000	1492.000	1492.000	0.0	-5.400	0.0

GR	348,200	1000,000	340,600	1100,000	335,100	1200,000	334,700	1202,000	330,200	1212,000
GR	330,100	1221,000	330,400	1230,000	333,100	1237,000	340,900	1265,000	343,400	1300,000
GR	348,200	1396,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	1850,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	1,300	0.0
X1	1900,000	24,000	1290,500	1309,500	50,000	50,000	50,000	0.0	0.0	0.0
GR	352,300	1000,000	345,500	1079,000	337,900	1179,000	332,400	1279,000	332,000	1281,000
GR	331,100	1290,500	329,100	1291,500	327,900	1293,000	327,400	1294,800	328,000	1297,000
GR	329,500	1296,500	331,100	1299,000	331,100	1301,000	329,000	1302,000	328,000	1303,000
GR	327,400	1305,300	327,800	1307,000	329,500	1309,000	331,100	1309,500	338,200	1344,000
GR	339,200	1360,000	340,100	1400,000	345,500	1500,000	352,300	1558,000	0.0	0.0
SB	0,900	1,500	2,500	0.0	17,000	0,010	98,000	0.0	0.0	0.0
X1	1938,000	0.0	0.0	0.0	38,000	38,000	38,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	334,900	0.0	0.0	0.0	0.0	0.0	0.0
BT	20,000	1000,000	352,300	0.0	1100,000	344,700	0.0	1200,000	338,700	0.0
BT	1290,500	337,700	331,100	1291,500	337,700	333,300	1293,000	337,700	334,400	1294,800
BT	337,700	334,900	1297,000	337,700	334,300	1298,500	337,700	332,900	1299,000	337,700
BT	331,100	1301,000	337,700	331,100	1302,000	337,700	333,200	1303,000	337,700	334,200
BT	1305,300	337,700	334,900	1307,000	337,700	334,500	1309,000	337,700	332,700	1309,500
BT	337,700	331,100	1400,000	340,100	0.0	1500,000	345,500	0.0	1558,000	352,300
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	1988,000	11,000	1202,000	1237,000	50,000	50,000	50,000	0.0	-1,300	0.0
GR	348,200	1000,000	340,600	1100,000	335,100	1200,000	334,700	1202,000	330,200	1212,000
GR	330,100	1221,000	330,400	1230,000	333,100	1237,000	340,900	1265,000	343,400	1300,000
GR	348,200	1396,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	2038,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	1,300	0.0
QT	5,000	615,000	1080,000	1300,000	2250,000	1300,000	0.0	0.0	0.0	0.0
X1	2450,000	18,000	1379,000	1400,000	412,000	412,000	412,000	0.0	-4,000	0.0
GR	354,700	1000,000	348,700	1100,000	346,600	1171,000	345,900	1183,000	345,100	1185,000
GR	346,900	1189,000	347,200	1200,000	343,700	1300,000	343,400	1328,000	343,100	1349,000
GR	341,300	1379,000	337,200	1384,000	336,500	1390,000	337,000	1396,000	341,400	1400,000
GR	340,900	1460,000	348,400	1500,000	356,200	1587,000	0.0	0.0	0.0	0.0
X1	2500,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	0,300	0.0
X1	2550,000	18,000	1488,000	1496,000	50,000	50,000	50,000	0.0	0.0	0.0
GR	358,000	1000,000	353,600	1100,000	348,600	1200,000	344,100	1300,000	343,900	1302,000
GR	340,400	1402,000	340,100	1430,000	339,800	1451,000	338,000	1481,000	336,000	1488,000
GR	333,200	1488,000	333,200	1496,000	336,000	1496,000	338,100	1502,000	337,600	1562,000
GR	345,100	1602,000	353,600	1700,000	358,000	1793,000	0.0	0.0	0.0	0.0
SB	0,900	1,500	2,500	0.0	8,000	0,010	64,000	0.0	0.0	0.0
X1	2596,000	0.0	0.0	0.0	46,000	46,000	46,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	341,200	0.0	0.0	0.0	0.0	0.0	0.0
BT	11,000	1000,000	358,000	0.0	1100,000	353,600	0.0	1200,000	348,600	0.0
BT	1300,000	344,100	0.0	1400,000	342,500	0.0	1488,000	343,800	341,200	1496,000
BT	343,900	341,200	1500,000	344,100	0.0	1600,000	348,700	0.0	1700,000	353,600
BT	0.0	1793,000	358,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	2646,000	18,000	1379,000	1400,000	50,000	50,000	50,000	0.0	-2,800	0.0
GR	354,700	1000,000	348,700	1100,000	346,600	1171,000	345,900	1183,000	345,100	1185,000
GR	346,900	1189,000	347,200	1200,000	343,700	1300,000	343,400	1328,000	343,100	1349,000
GR	341,300	1379,000	337,200	1384,000	336,500	1390,000	337,000	1396,000	341,400	1400,000
GR	340,900	1460,000	348,400	1500,000	356,200	1587,000	0.0	0.0	0.0	0.0
X1	2696,000	0.0	0.0	0.0	50,000	50,000	50,000	0.0	0,500	0.0
QT	5,000	590,000	1040,000	1260,000	2190,000	1260,000	0.0	0.0	0.0	0.0
X1	2800,000	18,000	1379,000	1400,000	104,000	104,000	104,000	0.0	-1,200	0.0
GR	354,700	1000,000	348,700	1100,000	346,600	1171,000	345,900	1183,000	345,100	1185,000
GR	346,900	1189,000	347,200	1200,000	343,700	1300,000	343,400	1328,000	343,100	1349,000

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

T1 STREAM 3F NEIL BRANCH FOUQUAY VARINA, WAKE CO.
 T2 FIS, WAKE COUNTY JOB NO. 206855
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	3.	0.	0.	0.010000	0.0	0.0	0.	314.000	0.0
J2	NPROF	IPLOT	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

CCMV=	0.100	CEMV=	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	
50.00	6.91	316.51	0.0	314.00	316.88	0.37	0.0	0.0	313.30	
1180.	253.	714.	213.	105.	121.	75.	0.	0.	313.20	
0.0	2.40	5.92	2.84	0.085	0.077	0.085	0.0	309.60	1320.30	
0.010019	50.	50.	50.	0	0	5	0.0	128.74	1449.04	
100.00	6.91	317.01	0.0	0.0	317.38	0.37	0.50	0.00	313.80	
1180.	253.	714.	213.	105.	121.	75.	0.	0.	313.70	
0.00	2.40	5.92	2.84	0.085	0.077	0.085	0.075	310.10	1320.28	
0.010010	50.	50.	50.	0	0	1	0.0	128.77	1449.05	
150.00	7.07	317.67	0.0	0.0	317.95	0.28	0.56	0.01	313.10	
1180.	403.	411.	365.	132.	72.	105.	1.	0.	313.10	
0.01	3.05	5.68	3.48	0.085	0.077	0.085	0.075	310.60	1356.94	
0.012832	50.	50.	50.	2	0	1	0.0	139.79	1496.73	

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	2.50	0.0	10.00	0.01	39.30	0.0	310.60	310.60

3280 CROSS SECTION 208.00 EXTENDED 1.22 FEET

PRESSURE AND WEIR FLOW

EGPRS EGLWC H3 QWEIR QPR BAREA ELLC ELTRD CLASS

338.67 317.95 0.00 868. 315. 39. 315.60 317.90 30.00

208.00 8.82 319.12 0.0 0.0 319.17 0.05 1.22 0.0 313.10
 1180. 426. 242. 512. 262. 90. 429. 1. 1. 313.10
 0.02 1.63 2.69 1.19 0.085 0.077 0.085 0.076 310.60 1320.78
 0.002159 58. 58. 58. 2 0 7 0.0 579.22 1900.00

258.00 8.09 319.19 0.0 0.0 319.33 0.14 0.13 0.03 314.80
 1180. 350. 562. 268. 198. 144. 135. 2. 1. 314.70
 0.02 1.77 3.89 1.99 0.085 0.077 0.085 0.076 311.10 1295.25
 0.003405 50. 50. 50. 2 0 1 0.0 167.87 1463.13

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

308.00 7.76 319.36 0.0 0.0 319.54 0.18 0.20 0.01 315.30
 1180. 320. 603. 257. 169. 138. 116. 3. 1. 315.20
 0.03 1.90 4.38 2.21 0.085 0.077 0.085 0.076 311.60 1302.88
 0.004598 50. 50. 50. 2 0 1 0.0 156.27 1459.15

CCMV= 0.100 CEHV= 0.300

3301 HV CHANGED MORE THAN HVINS

1800.00 4.62 329.32 328.85 0.0 330.46 1.14 10.63 0.29 329.30
 1090. 0. 1075. 15. 0. 125. 5. 12. 5. 327.70
 0.07 0.04 8.61 3.21 0.045 0.045 0.045 0.050 324.70 1201.90
 0.013175 1492. 1492. 1492. 15 11 1 0.0 40.92 1242.82

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

1850.00 4.16 330.16 330.16 0.0 331.68 1.52 0.81 0.0 330.60
 1090. 0. 1082. 8. 0. 109. 2. 12. 5. 329.00
 0.08 0.0 9.94 3.18 0.045 0.045 0.045 0.049 326.00 1202.98
 0.020246 50. 50. 50. 3 5 1 0.0 38.17 1241.16

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
1900.00	6.11	333.51	333.51	0.0	334.69	1.17	0.88	0.0	331.10
1090.	165.	860.	65.	33.	91.	14.	12.	5.	331.10
0.08	5.05	9.44	4.61	0.045	0.045	0.045	0.049	327.40	1258.74
0.015568	50.	50.	50.	30	11	1	0.0	62.50	1321.23

SPECIAL BRIDGE

5070 VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	2.50	0.0	17.00	0.01	98.00	0.0	327.40	327.40

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	

CLASS A LOW FLOW

BRIDGE W.S. = 333.51 BRIDGE VELOCITY = 10.49

L6PRS	EGLWC	H3	QWEIR	QPR	BAREA	ELLC	ELTRD	CLASS
0.0	334.69	0.00	0.	1090.	98.	334.90	337.70	1.00

1938.00	6.12	333.52	0.0	0.0	334.69	1.17	0.0	0.0	331.10
1090.	165.	860.	65.	33.	91.	14.	13.	5.	331.10
0.08	5.05	9.43	4.60	0.045	0.045	0.045	0.049	327.40	1258.69
0.015525	58.	58.	58.	0	0	1	0.0	62.56	1321.25

3301 HV CHANGED MORE THAN HVINS

1988.00	5.75	334.55	0.0	0.0	335.15	0.60	0.40	0.06	333.40
1090.	10.	1042.	38.	7.	164.	14.	13.	5.	331.80
0.08	1.48	6.34	2.80	0.045	0.045	0.045	0.049	328.80	1186.39
0.004950	50.	50.	50.	2	0	1	0.0	60.48	1246.87

3301 HV CHANGED MORE THAN HVINS

2038.00	4.34	334.44	0.0	0.0	335.79	1.35	0.42	0.23	334.70
1090.	0.	1080.	10.	0.	115.	3.	13.	5.	333.10
0.08	0.0	9.37	3.22	0.045	0.045	0.045	0.049	330.10	1202.57
0.016961	50.	50.	50.	3	0	1	0.0	39.25	1241.82

3301 HV CHANGED MORE THAN HVINS

2450.00	6.40	338.90	0.0	0.0	339.32	0.42	3.44	0.09	337.30
1080.	43.	657.	380.	21.	106.	116.	15.	6.	337.40
0.10	2.00	6.18	3.28	0.045	0.045	0.045	0.048	332.50	1352.26
0.004938	412.	412.	412.	2	0	1	0.0	118.43	1470.69

2500.00	6.34	339.14	0.0	0.0	339.59	0.45	0.26	0.01	337.60
1080.	40.	669.	371.	20.	105.	112.	15.	6.	337.70

0.11	2.03	6.37	3.33	0.045	0.045	0.045	0.048	332.80	1355.30
0.005332	50.	50.	50.	2	0	1	0.0	117.05	1470.36
2550.00	6.22	339.42	0.0	0.0	339.99	0.56	0.36	0.03	336.00
1080.	145.	397.	538.	34.	50.	117.	15.	6.	336.00
0.11	4.29	7.98	4.58	0.045	0.045	0.045	0.048	333.20	1457.32
0.010366	50.	50.	50.	2	0	1	0.0	114.39	1571.71

SPECIAL BRIDGE

5070 VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	2.50	0.0	8.00	0.01	64.00	0.0	333.20	333.20

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

CLASS A LOW FLOW

BRIDGE W.S.= 339.44 BRIDGE VELOCITY= 21.67

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	ELLC	ELTRD	CLASS	
0.0	339.99	0.00	0.	1080.	64.	341.20	342.50	1.00	
2596.00	6.22	339.42	0.0	0.0	339.99	0.56	0.00	0.0	336.00
1080.	145.	397.	538.	34.	50.	117.	15.	6.	336.00
0.11	4.29	7.98	4.58	0.045	0.045	0.045	0.048	333.20	1457.30
0.010349	46.	46.	46.	0	0	1	0.0	114.42	1571.72
2646.00	6.14	339.84	0.0	0.0	340.40	0.57	0.42	0.00	338.50
1080.	31.	709.	239.	15.	101.	97.	16.	6.	338.60
0.11	2.09	7.04	3.48	0.045	0.045	0.045	0.048	333.70	1356.67
0.006884	50.	50.	50.	2	0	1	0.0	112.60	1469.28
2696.00	6.91	340.11	0.0	0.0	340.85	0.74	0.40	0.05	339.00
1080.	22.	739.	299.	10.	96.	82.	16.	6.	339.10
0.12	2.15	7.89	3.63	0.045	0.045	0.045	0.048	334.20	1360.35
0.009214	50.	50.	50.	2	0	1	0.0	107.75	1468.10

7185 MIN SPECIFIC ENERGY

5720 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	XLN	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	
2800.00	5.84	341.14	341.14	0.0	341.89	0.75	0.97	0.0	340.10	
1040.	19.	749.	273.	9.	95.	77.	16.	7.	340.20	
0.12	2.08	7.92	3.54	0.045	0.045	0.045	0.048	335.30	1361.64	
0.009493	104.	104.	104.	2	6	1	0.0	106.05	1467.69	

2880.00	5.81	341.61	0.0	0.0	342.38	0.78	0.48	0.01	340.60
1040.	18.	755.	267.	9.	94.	75.	16.	7.	340.70
0.12	2.08	8.03	3.55	0.045	0.045	0.045	0.048	335.80	1362.07
0.009830	50.	50.	50.	0	0	1	0.0	105.49	1467.55

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

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
2980.00	5.92	342.52	342.52	0.0	343.11	0.59	0.52	0.0	338.10
1040.	290.	348.	403.	59.	42.	87.	17.	7.	338.10
0.13	4.87	8.35	4.64	0.045	0.045	0.045	0.048	336.60	1451.76
0.011830	50.	50.	50.	30	5	1	0.0	161.26	1613.02

SPECIAL BRIDGE

5070 VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFO	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	2.50	0.0	6.00	0.01	14.10	0.0	336.60	336.60

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

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	ELLC	ELTRD	CLASS
469.23	343.11	0.00	949.	97.	14.	339.60	341.60	30.00

2950.00	6.87	343.47	0.0	0.0	343.61	0.14	0.50	0.0	338.10
1040.	335.	217.	488.	143.	49.	188.	17.	7.	338.10
0.13	2.35	4.40	2.60	0.045	0.045	0.045	0.048	336.60	1401.56
0.002450	50.	50.	50.	2	0	10	0.0	241.28	1642.84

3000.00	6.35	343.45	0.0	0.0	343.86	0.41	0.17	0.08	341.90
1040.	39.	642.	359.	20.	105.	112.	17.	7.	342.00
0.13	1.95	6.09	3.19	0.045	0.045	0.045	0.047	337.10	1353.08
0.004866	50.	50.	50.	2	0	1	0.0	117.34	1470.43

3050.00	6.00	343.60	0.0	0.0	344.22	0.62	0.30	0.06	342.40
1040.	25.	712.	304.	12.	98.	88.	18.	8.	342.50
0.14	2.05	7.27	3.45	0.045	0.045	0.045	0.047	337.60	1358.93
0.007622	50.	50.	50.	2	0	1	0.0	109.62	1468.55

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

T1 STREAM 3F NEIL BRANCH FUGUAY VARINA, WAKE CO.
 T2 FIS, WAKE COUNTY JOB NO. 206855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	4.	0.	0.	0.010000	0.0	0.0	0.	315.000	0.0
J2	NPROF	IPL0T	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

CCHV=	0.100	CEHV=	0.300							
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	
50.00	7.27	316.87	0.0	315.00	317.26	0.38	0.0	0.0	313.50	
1400.	336.	787.	277.	131.	128.	92.	0.	0.	313.20	
0.0	2.57	6.15	3.02	0.085	0.077	0.085	0.0	309.60	1312.86	
0.010009	50.	50.	50.	0	0	4	0.0	140.50	1453.36	
100.00	7.27	317.37	0.0	0.0	317.76	0.38	0.50	0.00	313.80	
1400.	336.	787.	277.	131.	128.	92.	0.	0.	313.70	
0.00	2.57	6.15	3.02	0.085	0.077	0.085	0.075	310.10	1312.85	
0.010006	50.	50.	50.	0	0	1	0.0	140.51	1453.36	

3265 DIVIDED FLOW

3280 CROSS SECTION 150.00 EXTENDED 0.14 FEET

150.00	7.44	318.04	0.0	0.0	318.52	0.28	0.55	0.01	313.10	
1400.	504.	442.	454.	160.	77.	128.	1.	0.	313.10	
0.01	3.15	5.76	3.54	0.085	0.077	0.085	0.075	310.60	1349.52	
0.012182	50.	50.	50.	2	0	1	0.0	192.31	1900.00	

SPECIAL BRIDGE

5070 VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	2.50	0.0	10.00	0.01	39.30	0.0	310.60	310.60

3280 CROSS SECTION 206.00 EXTENDED 1.36 FEET

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

T1 STREAM 3F NEIL BRANCH FUGUAY VARINA, WAKE CO.
 T2 FIS, WAKE COUNTY JOB NO. 206855
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	5.	0.	0.	0.010000	0.0	0.0	0.	316.000	0.0
J2	NPROF	IPL0T	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	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	
50.00	8.49	318.08	0.0	316.00	318.51	0.43	0.0	0.0	315.50	
2400.	783.	1051.	567.	235.	152.	158.	0.	0.	313.20	
0.0	3.33	6.91	3.59	0.085	0.077	0.085	0.0	309.60	1285.74	
0.010004	50.	50.	50.	0	0	4	0.0	182.02	1467.76	

100.00	8.48	318.58	0.0	0.0	319.01	0.43	0.50	0.00	315.80	
2400.	783.	1051.	567.	235.	152.	158.	1.	0.	313.70	
0.00	3.33	6.91	3.59	0.085	0.077	0.085	0.075	310.10	1285.74	
0.010003	50.	50.	50.	0	0	1	0.0	182.02	1467.76	

3280 CROSS SECTION 150.00 EXTENDED 1.40 FEET

150.00	8.70	319.30	0.0	0.0	319.45	0.15	0.41	0.03	315.10	
2400.	846.	450.	1104.	282.	92.	511.	1.	1.	313.10	
0.01	3.00	4.89	2.16	0.085	0.077	0.085	0.075	310.60	1315.27	
0.006917	50.	50.	50.	2	0	1	0.0	584.73	1900.00	

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFG	RLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	0.90	1.50	2.50	0.0	10.00	0.01	39.30	0.0	310.60	310.60

3280 CROSS SECTION 208.00 EXTENDED 1.89 FEET

PRESSURE AND WEIR FLOW

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	50.00	50.00	0.0	0.0	309.60	680.00	315.44	67.89	315.77	94.08	0.0	0.0	5.20
	50.00	50.00	0.0	0.0	309.60	1180.00	316.51	117.89	316.88	128.74	0.0	0.0	5.92
	50.00	50.00	0.0	0.0	309.60	1400.00	316.87	139.93	317.25	140.50	0.0	0.0	6.15
	50.00	50.00	0.0	0.0	309.60	2400.00	318.08	239.96	318.51	182.02	0.0	0.0	6.91
	100.00	50.00	0.0	0.0	310.10	680.00	315.94	67.95	316.27	94.13	0.0	0.0	5.20
	100.00	50.00	0.0	0.0	310.10	1180.00	317.01	117.94	317.38	128.77	0.0	0.0	5.92
	100.00	50.00	0.0	0.0	310.10	1400.00	317.37	139.96	317.76	140.51	0.0	0.0	6.15
	100.00	50.00	0.0	0.0	310.10	2400.00	318.58	239.97	319.01	182.02	0.0	0.0	6.91
	150.00	50.00	0.0	0.0	310.60	680.00	316.60	53.99	316.90	101.99	0.0	0.0	5.54
	150.00	50.00	0.0	0.0	310.60	1180.00	317.67	104.17	317.95	139.79	0.0	0.0	5.68
	150.00	50.00	0.0	0.0	310.60	1400.00	318.04	126.84	318.32	192.31	0.0	0.0	5.76
	150.00	50.00	0.0	0.0	310.60	2400.00	319.30	288.58	319.45	584.73	0.0	0.0	4.89
	208.00	58.00	317.90	315.60	310.60	680.00	318.69	188.20	318.72	417.23	0.0	0.0	2.01
	208.00	58.00	317.90	315.60	310.60	1180.00	319.12	253.93	319.17	579.22	0.0	0.0	2.69
	208.00	58.00	317.90	315.60	310.60	1400.00	319.26	280.32	319.32	583.47	0.0	0.0	2.93
	208.00	58.00	317.90	315.60	310.60	2400.00	319.79	400.58	319.87	599.66	0.0	0.0	3.67
	258.00	50.00	0.0	0.0	311.10	680.00	318.74	165.33	318.81	152.48	0.0	0.0	2.63
	258.00	50.00	0.0	0.0	311.10	1180.00	319.19	202.21	319.33	167.87	0.0	0.0	3.89
	258.00	50.00	0.0	0.0	311.10	1400.00	319.34	215.60	319.51	173.07	0.0	0.0	4.39
	258.00	50.00	0.0	0.0	311.10	2400.00	319.86	268.96	320.21	191.96	0.0	0.0	6.31
B	308.00	50.00	0.0	0.0	311.60	680.00	318.82	136.44	318.92	138.73	0.0	0.0	3.05
	308.00	50.00	0.0	0.0	311.60	1180.00	319.36	174.01	319.54	156.27	0.0	0.0	4.38
	308.00	50.00	0.0	0.0	311.60	1400.00	319.54	188.56	319.77	162.36	0.0	0.0	4.88
	308.00	50.00	0.0	0.0	311.60	2400.00	320.25	257.60	320.63	188.15	0.0	0.0	6.53
C	1800.00	1492.00	0.0	0.0	324.70	620.00	327.72	40.02	328.88	31.57	0.0	0.0	8.65
	1800.00	1492.00	0.0	0.0	324.70	1090.00	329.32	94.96	330.46	40.92	0.0	0.0	8.61
	1800.00	1492.00	0.0	0.0	324.70	1310.00	329.95	126.32	331.09	49.68	0.0	0.0	8.67
	1800.00	1492.00	0.0	0.0	324.70	2265.00	331.82	259.37	333.03	90.31	0.0	0.0	9.33
	1850.00	50.00	0.0	0.0	326.00	620.00	329.02	40.08	330.18	31.59	0.0	0.0	8.64
	1850.00	50.00	0.0	0.0	326.00	1090.00	330.16	76.60	331.68	38.17	0.0	0.0	9.94
	1850.00	50.00	0.0	0.0	326.00	1310.00	330.59	93.80	332.26	40.71	0.0	0.0	10.43
	1850.00	50.00	0.0	0.0	326.00	2265.00	332.39	198.53	334.21	74.40	0.0	0.0	11.19
	1900.00	50.00	0.0	0.0	327.40	620.00	332.19	42.35	333.38	34.75	0.0	0.0	8.93
	1900.00	50.00	0.0	0.0	327.40	1090.00	333.51	87.36	334.69	62.50	0.0	0.0	9.44
	1900.00	50.00	0.0	0.0	327.40	1310.00	333.93	107.89	335.12	72.05	0.0	0.0	9.71
	1900.00	50.00	0.0	0.0	327.40	2265.00	335.09	187.00	336.48	98.90	0.0	0.0	11.08
	1938.00	38.00	337.70	334.90	327.40	620.00	332.19	42.43	333.38	34.78	0.0	0.0	8.92
	1938.00	38.00	337.70	334.90	327.40	1090.00	333.52	87.48	334.69	62.56	0.0	0.0	9.43
	1938.00	38.00	337.70	334.90	327.40	1310.00	337.88	541.08	337.96	163.12	0.0	0.0	2.82
	1938.00	38.00	337.70	334.90	327.40	2265.00	339.75	1004.01	339.84	230.01	0.0	0.0	2.98

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
1988.00	50.00	0.0	0.0	328.80	620.00	333.49	98.56	333.85	41.58	0.0	0.0	4.79
1988.00	50.00	0.0	0.0	328.80	1090.00	334.55	154.93	335.15	60.48	0.0	0.0	6.34
1988.00	50.00	0.0	0.0	328.80	1310.00	337.87	492.64	338.01	132.75	0.0	0.0	3.42
1988.00	50.00	0.0	0.0	328.80	2265.00	339.72	842.70	339.90	172.36	0.0	0.0	3.97
2038.00	50.00	0.0	0.0	330.10	620.00	333.49	50.59	334.34	33.71	0.0	0.0	7.43
2038.00	50.00	0.0	0.0	330.10	1090.00	334.44	83.70	335.79	39.25	0.0	0.0	9.37
2038.00	50.00	0.0	0.0	330.10	1310.00	337.81	319.05	338.11	103.30	0.0	0.0	4.67
2038.00	50.00	0.0	0.0	330.10	2265.00	339.66	570.72	340.00	143.50	0.0	0.0	5.31
2450.00	412.00	0.0	0.0	332.50	615.00	337.85	75.07	338.36	95.21	0.0	0.0	6.16
2450.00	412.00	0.0	0.0	332.50	1080.00	338.90	153.69	339.32	118.43	0.0	0.0	6.18
2450.00	412.00	0.0	0.0	332.50	1300.00	338.85	148.49	339.50	117.20	0.0	0.0	7.64
2450.00	412.00	0.0	0.0	332.50	2250.00	340.56	384.99	340.93	204.27	0.0	0.0	6.21
2500.00	50.00	0.0	0.0	332.80	615.00	338.22	79.83	338.68	97.05	0.0	0.0	5.88
2500.00	50.00	0.0	0.0	332.80	1080.00	339.14	147.90	339.59	117.05	0.0	0.0	6.37
2500.00	50.00	0.0	0.0	332.80	1300.00	339.31	164.11	339.85	120.83	0.0	0.0	7.07
2500.00	50.00	0.0	0.0	332.80	2250.00	340.70	353.64	341.13	198.51	0.0	0.0	6.64
2550.00	50.00	0.0	0.0	333.20	615.00	338.75	60.74	339.28	99.60	0.0	0.0	7.36
2550.00	50.00	0.0	0.0	333.20	1080.00	339.42	106.08	339.99	114.39	0.0	0.0	7.98
2550.00	50.00	0.0	0.0	333.20	1300.00	339.67	126.36	340.27	119.69	0.0	0.0	8.27
2550.00	50.00	0.0	0.0	333.20	2250.00	340.92	281.59	341.40	192.52	0.0	0.0	7.23
2596.00	46.00	342.50	341.20	333.20	615.00	339.14	84.82	339.41	108.12	0.0	0.0	5.51
2596.00	46.00	342.50	341.20	333.20	1080.00	339.42	106.16	339.99	114.42	0.0	0.0	7.98
2596.00	46.00	342.50	341.20	333.20	1300.00	339.67	127.16	340.27	119.89	0.0	0.0	8.23
2596.00	46.00	342.50	341.20	333.20	2250.00	345.16	1580.05	345.19	526.21	0.0	0.0	1.73
2646.00	50.00	0.0	0.0	333.70	615.00	339.33	91.91	339.67	101.34	0.0	0.0	5.27
2646.00	50.00	0.0	0.0	333.70	1080.00	339.84	130.17	340.40	112.60	0.0	0.0	7.04
2646.00	50.00	0.0	0.0	333.70	1300.00	340.08	150.84	340.71	117.76	0.0	0.0	7.55
2646.00	50.00	0.0	0.0	333.70	2250.00	345.16	1448.95	345.21	572.81	0.0	0.0	2.17
2696.00	50.00	0.0	0.0	334.20	615.00	339.45	70.15	340.03	93.20	0.0	0.0	6.50
2696.00	50.00	0.0	0.0	334.20	1080.00	340.11	112.51	340.85	107.75	0.0	0.0	7.89
2696.00	50.00	0.0	0.0	334.20	1300.00	340.40	135.97	341.16	114.10	0.0	0.0	8.19
2696.00	50.00	0.0	0.0	334.20	2250.00	345.17	1230.48	345.22	553.67	0.0	0.0	2.47
2800.00	104.00	0.0	0.0	335.30	590.00	340.30	58.21	341.06	87.63	0.0	0.0	7.18
2800.00	104.00	0.0	0.0	335.30	1040.00	341.14	106.74	341.89	106.05	0.0	0.0	7.92
2800.00	104.00	0.0	0.0	335.30	1260.00	341.35	123.32	342.20	110.78	0.0	0.0	8.57
2800.00	104.00	0.0	0.0	335.30	2190.00	345.19	840.58	345.28	279.77	0.0	0.0	3.25
2850.00	50.00	0.0	0.0	335.80	590.00	340.83	58.79	341.57	87.93	0.0	0.0	7.13
2850.00	50.00	0.0	0.0	335.80	1040.00	341.61	104.89	342.38	105.49	0.0	0.0	8.03
2850.00	50.00	0.0	0.0	335.80	1260.00	341.93	129.73	342.71	112.49	0.0	0.0	8.23
2850.00	50.00	0.0	0.0	335.80	2190.00	345.20	698.46	345.33	254.03	0.0	0.0	3.76

D

E

F

337.85

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
2900.00	50.00	0.0	0.0	336.60	590.00	341.34	42.60	342.31	37.10	0.0	0.0	9.27
2900.00	50.00	0.0	0.0	336.60	1040.00	342.52	99.00	343.11	161.26	0.0	0.0	8.35
2900.00	50.00	0.0	0.0	336.60	1260.00	342.65	110.77	343.35	172.63	0.0	0.0	9.20
2900.00	50.00	0.0	0.0	336.60	2190.00	345.30	666.79	345.39	478.39	0.0	0.0	3.48
2950.00	50.00	341.60	339.60	336.60	590.00	342.92	137.88	343.02	195.17	0.0	0.0	3.58
2950.00	50.00	341.60	339.60	336.60	1040.00	343.47	210.12	343.61	241.28	0.0	0.0	4.40
2950.00	50.00	341.60	339.60	336.60	1260.00	343.65	241.03	343.81	255.15	0.0	0.0	4.74
2950.00	50.00	341.60	339.60	336.60	2190.00	345.45	722.08	345.53	488.04	0.0	0.0	3.25
3000.00	50.00	0.0	0.0	337.10	590.00	342.93	106.33	343.18	105.92	0.0	0.0	4.51
3000.00	50.00	0.0	0.0	337.10	1040.00	343.44	149.09	343.86	117.34	0.0	0.0	6.09
3000.00	50.00	0.0	0.0	337.10	1260.00	343.59	162.16	344.11	120.39	0.0	0.0	6.91
3000.00	50.00	0.0	0.0	337.10	2190.00	345.37	425.90	345.67	211.34	0.0	0.0	5.58
3050.00	50.00	0.0	0.0	337.60	590.00	343.01	78.47	343.44	96.53	0.0	0.0	5.71
3050.00	50.00	0.0	0.0	337.60	1040.00	343.60	119.12	344.22	109.62	0.0	0.0	7.27
3050.00	50.00	0.0	0.0	337.60	1260.00	343.82	136.40	344.53	114.21	0.0	0.0	7.92
3050.00	50.00	0.0	0.0	337.60	2190.00	345.45	346.51	345.87	197.15	0.0	0.0	6.57

G

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
50.000	680.000	315.437	0.0	0.0	0.0	94.076	0.0	50.000
50.000	1180.000	316.508	1.072	0.0	0.0	128.741	-34.665	50.000
50.000	1400.000	316.871	0.363	0.0	0.0	140.495	-46.419	50.000
50.000	2400.000	318.084	1.213	0.0	0.0	182.020	-87.944	50.000
100.000	680.000	315.938	0.0	0.501	0.0	94.128	0.0	50.000
100.000	1180.000	317.009	1.071	0.501	0.0	128.771	-34.643	50.000
100.000	1400.000	317.372	0.363	0.501	0.0	140.509	-46.381	50.000
100.000	2400.000	318.584	1.212	0.500	0.0	182.024	-87.897	50.000
150.000	680.000	316.596	0.0	0.658	0.0	101.988	0.0	50.000
150.000	1180.000	317.671	1.075	0.662	0.0	139.788	-37.800	50.000
150.000	1400.000	318.035	0.364	0.663	0.0	192.313	-90.325	50.000
150.000	2400.000	319.299	1.264	0.715	0.0	584.727	-482.739	50.000
208.000	680.000	318.694	0.0	2.098	0.0	417.227	0.0	58.000
208.000	1180.000	319.124	0.431	1.453	0.0	579.224	-161.997	58.000
208.000	1400.000	319.262	0.138	1.227	0.0	583.468	-166.242	58.000
208.000	2400.000	319.788	0.526	0.489	0.0	599.659	-182.433	58.000
258.000	680.000	318.741	0.0	0.047	0.0	152.477	0.0	50.000
258.000	1180.000	319.193	0.452	0.069	0.0	167.872	-15.395	50.000
258.000	1400.000	319.336	0.143	0.074	0.0	173.066	-20.589	50.000
258.000	2400.000	319.858	0.521	0.070	0.0	191.964	-39.487	50.000
308.000	680.000	318.823	0.0	0.082	0.0	138.726	0.0	50.000
308.000	1180.000	319.359	0.536	0.166	0.0	156.268	-17.542	50.000
308.000	1400.000	319.542	0.183	0.236	0.0	162.359	-23.633	50.000
308.000	2400.000	320.253	0.711	0.396	0.0	188.154	-49.428	50.000
1800.000	620.000	327.722	0.0	8.899	0.0	31.575	0.0	1492.000
1800.000	1090.000	329.318	1.597	9.959	0.0	40.915	-9.341	1492.000
1800.000	1310.000	329.951	0.633	10.409	0.0	49.676	-18.101	1492.000
1800.000	2265.000	331.818	1.866	11.564	0.0	90.306	-58.731	1492.000
1850.000	620.000	329.024	0.0	1.302	0.0	31.587	0.0	50.000
1850.000	1090.000	330.157	1.133	0.839	0.0	38.174	-6.587	50.000

1850,000	1310,000	330,593	0.436	0.642	0.0	40,708	-9,121	50,000
1850,000	2265,000	332,387	1.794	0.569	0.0	74,397	-42,810	50,000
1900,000	620,000	332,190	0.0	3,166	0.0	34,749	0.0	50,000
1900,000	1090,000	333,514	1.324	3,357	0.0	62,496	-27,748	50,000
1900,000	1310,000	333,929	0.415	3,335	0.0	72,048	-37,299	50,000
1900,000	2265,000	335,094	1.165	2,707	0.0	98,897	-64,148	50,000
1938,000	620,000	332,193	0.0	0,003	0.0	34,782	0.0	38,000
1938,000	1090,000	333,517	1.323	0,003	0.0	62,558	-27,776	38,000
1938,000	1310,000	337,881	4.364	3,953	0.0	163,123	-128,341	38,000
1938,000	2265,000	339,753	1.872	4,660	0.0	230,008	-195,226	38,000
1988,000	620,000	333,494	0.0	1,301	0.0	41,583	0.0	50,000
1988,000	1090,000	334,546	1.052	1,029	0.0	60,476	-18,893	50,000
1988,000	1310,000	337,867	3.321	-0,014	0.0	132,754	-91,172	50,000
1988,000	2265,000	339,724	1.857	-0,030	0.0	172,362	-130,780	50,000
2038,000	620,000	333,485	0.0	-0,009	0.0	33,706	0.0	50,000
2038,000	1090,000	334,438	0.952	-0,108	0.0	39,252	-5,547	50,000
2038,000	1310,000	337,815	3.377	-0,052	0.0	103,301	-69,595	50,000
2038,000	2265,000	339,661	1.846	-0,063	0.0	143,500	-109,795	50,000
2450,000	615,000	337,848	0.0	4,363	0.0	95,210	0.0	412,000
2450,000	1080,000	338,903	1.054	4,465	0.0	118,433	-23,223	412,000
2450,000	1300,000	338,849	-0,054	1,034	0.0	117,198	-21,988	412,000
2450,000	2250,000	340,556	1.707	0,895	0.0	204,265	-109,055	412,000
2500,000	615,000	338,225	0.0	0,376	0.0	97,050	0.0	50,000
2500,000	1080,000	339,138	0,914	0,236	0.0	117,055	-20,005	50,000
2500,000	1300,000	339,309	0,171	0,460	0.0	120,830	-23,781	50,000
2500,000	2250,000	340,701	1,392	0,145	0.0	198,506	-101,456	50,000
2550,000	615,000	338,748	0.0	0,523	0.0	99,595	0.0	50,000
2550,000	1080,000	339,420	0,672	0,282	0.0	114,392	-14,797	50,000
2550,000	1300,000	339,669	0,249	0,360	0.0	119,692	-20,097	50,000
2550,000	2250,000	340,918	1,249	0,217	0.0	192,522	-92,927	50,000
2596,000	615,000	339,135	0.0	0,387	0.0	108,115	0.0	46,000
2596,000	1080,000	339,421	0,286	0,001	0.0	114,417	-6,302	46,000
2596,000	1300,000	339,670	0,249	0,001	0.0	119,891	-11,776	46,000
2596,000	2250,000	345,158	5,488	4,240	0.0	326,208	-218,093	46,000
2646,000	615,000	339,327	0.0	0,192	0.0	101,341	0.0	50,000
2646,000	1080,000	339,837	0,510	0,416	0.0	112,605	-11,264	50,000
2646,000	1300,000	340,083	0,246	0,413	0.0	117,759	-16,418	50,000
2646,000	2250,000	345,164	5,081	0,006	0.0	372,807	-271,466	50,000
2696,000	615,000	339,454	0.0	0,127	0.0	93,195	0.0	50,000
2696,000	1080,000	340,113	0,659	0,276	0.0	107,747	-14,552	50,000
2696,000	1300,000	340,404	0,291	0,322	0.0	114,103	-20,908	50,000
2696,000	2250,000	345,169	4,765	0,005	0.0	353,671	-260,476	50,000
2800,000	590,000	340,304	0.0	0,850	0.0	87,634	0.0	104,000
2800,000	1040,000	341,141	0,837	1,028	0.0	106,045	-18,412	104,000
2800,000	1260,000	341,354	0,214	0,950	0.0	110,778	-23,145	104,000
2800,000	2190,000	345,188	3,833	0,018	0.0	279,773	-192,139	104,000
2850,000	590,000	340,827	0.0	0,523	0.0	87,929	0.0	50,000
2850,000	1040,000	341,606	0,779	0,465	0.0	105,486	-17,557	50,000
2850,000	1260,000	341,932	0,326	0,577	0.0	112,490	-24,562	50,000
2850,000	2190,000	345,204	3,272	0,017	0.0	254,030	-166,101	50,000
2900,000	590,000	341,342	0.0	0,516	0.0	37,103	0.0	50,000
2900,000	1040,000	342,516	1,174	0,910	0.0	161,263	-124,161	50,000
2900,000	1260,000	342,652	0,136	0,720	0.0	172,628	-135,525	50,000

2950,000	590,000	342,919	0.0	1.577	0.0	195.173	0.0	50.000
2950,000	1040,000	343,469	0.549	0.952	0.0	241.275	-46.102	50.000
2950,000	1260,000	343,650	0.181	0.998	0.0	255.149	-59.976	50.000
2950,000	2190,000	345,452	1.802	0.151	0.0	388.035	-192.862	50.000
3000,000	590,000	342,935	0.0	0.015	0.0	105.922	0.0	50.000
3000,000	1040,000	343,445	0.510	-0.024	0.0	117.342	-11.420	50.000
3000,000	1260,000	343,592	0.147	-0.058	0.0	120.389	-14.467	50.000
3000,000	2190,000	345,372	1.781	-0.080	0.0	211.336	-105.414	50.000
3050,000	590,000	343,008	0.0	0.073	0.0	96.534	0.0	50.000
3050,000	1040,000	343,603	0.595	0.158	0.0	109.623	-13.088	50.000
3050,000	1260,000	343,817	0.215	0.226	0.0	114.212	-17.678	50.000
3050,000	2190,000	345,446	1.628	0.073	0.0	197.149	-100.615	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	6.154	0.0
2	0.0	0.0	7.546	1.392
3	0.0	0.0	8.520	2.367
4	0.0	0.0	13.264	7.111

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

T1 STREAM 3F NEIL BRANCH FUQUAY VARINA, WAKE CO.
 T2 FIS, WAKE COUNTY JOB NO. 206855
 T3 100-YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSLL	FQ
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	316.900	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	29.000	0.0	0.0
NC	0.085	0.085	0.077	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	680.000	1180.000	1400.000	2400.000	1400.000	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	50.000	15.000	1386.000	1406.000	50.000	50.000	50.000	0.0	-2.000	0.0
GR	333.100	1000.000	329.000	1100.000	323.600	1200.000	319.500	1300.000	315.300	1386.000
GR	311.700	1390.000	311.600	1396.000	312.100	1402.000	315.200	1406.000	316.400	1424.000
GR	322.800	1500.000	327.500	1600.000	330.400	1700.000	332.700	1800.000	333.100	1811.000
X1	100.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0
X1	150.000	23.000	1430.000	1442.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	333.200	1000.000	328.500	1100.000	323.700	1200.000	319.800	1300.000	318.500	1340.000
GR	314.300	1426.000	313.100	1430.000	311.100	1431.000	310.600	1432.500	311.100	1434.000
GR	313.100	1435.000	313.100	1437.000	311.100	1438.000	310.600	1439.500	311.100	1441.000
GR	313.100	1442.000	314.200	1446.000	315.400	1464.000	317.900	1500.000	318.600	1600.000
GR	319.100	1700.000	318.500	1800.000	317.900	1900.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	10.000	0.010	39.300	0.0	0.0	0.0
X1	208.000	0.0	0.0	0.0	58.000	58.000	58.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	315.600	0.0	0.0	0.0	0.0	0.0	0.0
BT	20.000	1000.000	333.200	0.0	1100.000	328.500	0.0	1200.000	323.700	0.0
BT	1300.000	319.800	0.0	1400.000	318.500	0.0	1430.000	318.100	313.100	1431.000
BT	318.100	315.100	1432.500	318.100	315.600	1434.000	318.100	315.100	1435.000	318.100
BT	313.100	1437.000	318.100	313.100	1438.000	318.100	315.100	1439.500	318.100	315.600
BT	1441.000	318.100	315.100	1442.000	318.100	313.100	1500.000	317.900	0.0	1600.000
BT	318.600	0.0	1700.000	319.100	0.0	1800.000	318.500	0.0	1900.000	317.900
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	258.000	15.000	1386.000	1406.000	50.000	50.000	50.000	0.0	-0.500	0.0
GR	333.100	1000.000	329.000	1100.000	323.600	1200.000	319.500	1300.000	315.300	1386.000
GR	311.700	1390.000	311.600	1396.000	312.100	1402.000	315.200	1406.000	316.400	1424.000
GR	322.800	1500.000	327.500	1600.000	330.400	1700.000	332.700	1800.000	333.100	1811.000
X1	308.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0
NC	0.045	0.045	0.045	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	620.000	1090.000	1310.000	2265.000	1310.000	0.0	0.0	0.0	0.0
X1	1800.000	11.000	1202.000	1237.000	1492.000	1492.000	1492.000	0.0	5.400	0.0
GR	348.200	1000.000	340.600	1100.000	335.100	1200.000	334.700	1202.000	330.200	1212.000
GR	318.100	1390.000	318.100	1396.000	312.100	1402.000	315.200	1406.000	316.400	1424.000
GR	322.800	1500.000	327.500	1600.000	330.400	1700.000	332.700	1800.000	333.100	1811.000

PATENT PENDING
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 WAKE COUNTY, NC

FUQUAY VARINA, WAKE COUNTY, NC
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3	GR	348.200	1396.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	X1	1850.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.300	0.0
5	X1	1900.000	24.000	1290.500	1309.500	50.000	50.000	50.000	0.0	0.0	0.0
6	GR	352.300	1000.000	345.500	1079.000	337.900	1179.000	332.400	1279.000	332.000	1281.000
7	GR	331.100	1290.500	329.100	1291.500	327.900	1293.000	327.400	1294.800	328.000	1297.000
8	GR	329.500	1298.500	331.100	1299.000	331.100	1301.000	329.000	1302.000	328.000	1303.000
9	GR	327.400	1305.300	327.800	1307.000	329.500	1309.000	331.100	1309.500	338.200	1344.000
10	GR	339.200	1360.000	340.100	1400.000	345.500	1500.000	352.300	1558.000	0.0	0.0
11	SB	0.900	1.500	2.500	0.0	17.000	0.010	98.000	0.0	0.0	0.0
13	X1	1938.000	0.0	0.0	0.0	38.000	38.000	38.000	0.0	0.0	0.0
14	X2	0.0	0.0	1.000	334.900	0.0	0.0	0.0	0.0	0.0	0.0
15	BT	20.000	1000.000	352.300	0.0	1100.000	344.700	0.0	1200.000	338.700	0.0
16	BT	1290.500	337.700	331.100	1291.500	337.700	333.300	1293.000	337.700	334.400	1294.800
17	BT	337.700	334.900	1297.000	337.700	334.300	1298.500	337.700	332.900	1299.000	337.700
18	BT	331.100	1301.000	337.700	331.100	1302.000	337.700	333.200	1303.000	337.700	334.200
19	BT	1309.300	337.700	334.900	1307.000	337.700	334.500	1309.000	337.700	332.700	1309.500
20	BT	337.700	331.100	1400.000	340.100	0.0	1500.000	345.500	0.0	1558.000	352.300
21	BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	X1	1988.000	11.000	1202.000	1237.000	50.000	50.000	50.000	0.0	-1.300	0.0
24	GR	348.200	1000.000	340.600	1100.000	335.100	1200.000	334.700	1202.000	330.200	1212.000
25	GR	330.100	1221.000	330.400	1230.000	333.100	1237.000	340.900	1265.000	343.400	1300.000
26	GR	348.200	1396.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	X1	2038.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.300	0.0
29	QT	5.000	619.000	1080.000	1300.000	2250.000	1300.000	0.0	0.0	0.0	0.0
31	X1	2450.000	18.000	1379.000	1400.000	412.000	412.000	412.000	0.0	-4.000	0.0
32	GR	354.700	1000.000	348.700	1100.000	346.600	1171.000	345.900	1183.000	345.100	1185.000
33	GR	346.900	1189.000	347.200	1200.000	343.700	1300.000	343.400	1328.000	343.100	1349.000
34	GR	341.300	1379.000	337.200	1384.000	336.500	1390.000	337.000	1396.000	341.400	1400.000
35	GR	340.900	1460.000	348.400	1500.000	356.200	1587.000	0.0	0.0	0.0	0.0
37	X1	2500.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.300	0.0
39	X1	2550.000	18.000	1488.000	1496.000	50.000	50.000	50.000	0.0	0.0	0.0
40	GR	358.000	1000.000	353.600	1100.000	348.600	1200.000	344.100	1300.000	343.900	1302.000
41	GR	340.400	1402.000	340.100	1430.000	339.800	1451.000	338.000	1481.000	336.000	1488.000
42	GR	333.200	1488.000	333.200	1496.000	336.000	1496.000	338.100	1502.000	337.600	1562.000
43	GR	345.100	1602.000	353.600	1700.000	358.000	1793.000	0.0	0.0	0.0	0.0
44	SB	0.900	1.500	2.500	0.0	8.000	0.010	64.000	0.0	0.0	0.0
46	X1	2596.000	0.0	0.0	0.0	46.000	46.000	46.000	0.0	0.0	0.0
47	X2	0.0	0.0	1.000	341.200	0.0	0.0	0.0	0.0	0.0	0.0
48	BT	11.000	1000.000	358.000	0.0	1100.000	353.600	0.0	1200.000	348.600	0.0
49	BT	1300.000	344.100	0.0	1400.000	342.500	0.0	1488.000	343.800	341.200	1496.000
50	BT	343.900	341.200	1500.000	344.100	0.0	1600.000	348.700	0.0	1700.000	353.600
51	BT	0.0	1793.000	358.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	X1	2646.000	18.000	1379.000	1400.000	50.000	50.000	50.000	0.0	-2.800	0.0
54	GR	354.700	1000.000	348.700	1100.000	346.600	1171.000	345.900	1183.000	345.100	1185.000
55	GR	346.900	1189.000	347.200	1200.000	343.700	1300.000	343.400	1328.000	343.100	1349.000
56	GR	341.300	1379.000	337.200	1384.000	336.500	1390.000	337.000	1396.000	341.400	1400.000
57	GR	340.900	1460.000	348.400	1500.000	356.200	1587.000	0.0	0.0	0.0	0.0
59	X1	2696.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0
60	QT	5.000	590.000	1040.000	1260.000	2190.000	1260.000	0.0	0.0	0.0	0.0
62	X1	2800.000	18.000	1379.000	1400.000	104.000	104.000	104.000	0.0	-1.200	0.0
63	GR	354.700	1000.000	348.700	1100.000	346.600	1171.000	345.900	1183.000	345.100	1185.000
64	GR	346.900	1189.000	347.200	1200.000	343.700	1300.000	343.400	1328.000	343.100	1349.000
65	GR	341.300	1379.000	337.200	1384.000	336.500	1390.000	337.000	1396.000	341.400	1400.000
66	GR	340.900	1460.000	348.400	1500.000	356.200	1587.000	0.0	0.0	0.0	0.0
68	X1	2850.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0

SPEEDREAD WITH EYE TRACK PATENT PENDING

MOORE BUSINESS FORMS, INC. FORM 2711 15 PRINTED IN U.S.A. 5/71

PRINTED IN U.S.A. 87

2	X1	2900.000	21.000	1514.000	1522.000	50.000	50.000	50.000	0.0	0.0	0.0
3	GR	3556.600	1000.000	352.100	1100.000	348.600	1200.000	345.800	1300.000	343.500	1400.000
4	GR	341.600	1500.000	338.100	1514.000	337.000	1514.500	336.600	1515.500	337.000	1516.500
5	GR	338.100	1517.000	338.100	1519.000	337.000	1519.500	336.600	1520.500	337.000	1521.500
6	GR	338.100	1522.000	341.700	1510.000	342.100	1600.000	345.300	1700.000	350.200	1800.000
7	GR	356.600	1897.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	SB	0.900	1.500	2.500	0.0	6.000	0.010	14.100	0.0	0.0	0.0
9											
10	X1	2950.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.0	0.0
11	X2	0.0	0.0	1.000	339.600	0.0	0.0	0.0	0.0	0.0	0.0
12	BT	20.000	1000.000	356.600	0.0	1100.000	352.100	0.0	1200.000	348.600	0.0
13	BT	1300.000	345.800	0.0	1400.000	343.500	0.0	1500.000	341.600	0.0	1514.000
14	BT	341.600	338.100	1514.500	341.600	339.200	1515.500	341.600	339.600	1516.500	341.600
15	BT	339.200	1517.000	341.600	338.100	1519.000	341.600	338.100	1519.500	341.600	339.200
16	BT	1520.500	341.600	339.600	1521.500	341.600	339.200	1522.000	341.600	338.100	1600.000
17	BT	342.100	0.0	1700.000	345.300	0.0	1800.000	350.200	0.0	1897.000	356.600
18	BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19											
20											
21	X1	3000.000	18.000	1379.000	1400.000	50.000	50.000	50.000	0.0	0.600	0.0
22	GR	354.700	1000.000	348.700	1100.000	346.600	1171.000	345.900	1183.000	345.100	1185.000
23	GR	346.900	1189.000	347.200	1200.000	343.700	1300.000	343.400	1328.000	343.100	1349.000
24	GR	341.300	1379.000	337.200	1384.000	336.500	1390.000	337.000	1396.000	341.400	1400.000
25	GR	340.900	1460.000	348.400	1500.000	356.200	1587.000	0.0	0.0	0.0	0.0
26											
27	X1	3050.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0
28	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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MOORE BUSINESS FORMS, INC. FORM 601 15 PRINTED IN U.S.A. 87

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

T1 STREAM 3F NEIL BRANCH FUGUAY VARINA, WAKE CO.
 T2 FIS, WAKE COUNTY JOB NO. 206855
 T3 100 YEAR FLOODWAY

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	317.900	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= 141.75 WSEL= 316.90 ENC Q1= 141.75 WSEL= 317.90 RATIO= 0.0
 NAT Q1= 222. RATIOS LOB,CH,ROB= 0.3127 0.4552 0.2321 WSEL= 317.90
 SECNO DEPTH CWSEL CRIBS WSELK EG HV HL GLOSS BANK ELEV
 Q QLOB QROB ALOB 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= 1356.8 1415.5 TYPE= 4 TARGET= 0.360
 50.00 8.30 317.90 0.0 316.30 318.28 0.38 0.0 0.0 313.50
 1400. 405. 834. 161. 114. 148. 42. 0. 0. 313.20
 0.0 3.57 5.62 3.87 0.085 0.077 0.085 0.0 309.60 1356.79
 0.006833 50. 50. 50. 0 0 1 0.0 58.71 1415.51

2800 NAT Q1= 140.95 WSEL= 317.39 ENC Q1= 140.95 WSEL= 318.39 RATIO= 0.0
 NAT Q1= 220. RATIOS LOB,CH,ROB= 0.3118 0.4564 0.2318 WSEL= 318.39

3470 ENCROACHMENT STATIONS= 1356.9 1415.4 TYPE= 4 TARGET= 0.360
 100.00 8.14 318.24 0.0 317.39 318.64 0.41 0.36 0.01 313.80
 1400. 396. 846. 158. 108. 145. 40. 0. 0. 313.70
 0.0 3.66 5.84 3.97 0.085 0.077 0.085 0.075 310.10 1356.95
 0.007609 50. 50. 50. 2 0 1 0.0 58.50 1415.44

2800 NAT Q1= 127.31 WSEL= 318.04 ENC Q1= 127.31 WSEL= 319.04 RATIO= 0.0
 NAT Q1= 239. RATIOS LOB,CH,ROB= 0.3645 0.2133 0.4223 WSEL= 319.04
 3280 CROSS SECTION 150.00 EXTENDED 0.82 FEET

3470 ENCROACHMENT STATIONS= 1398.5 1461.3 TYPE= 4 TARGET= 0.468
 150.00 8.11 318.71 0.0 318.04 319.09 0.38 0.44 0.00 313.10
 1400. 542. 481. 377. 123. 85. 81. 1. 0. 313.10
 0.01 4.40 5.67 4.63 0.085 0.077 0.085 0.075 310.60 1398.51
 0.010313 50. 50. 50. 2 0 1 0.0 62.75 1461.26

SPEEDREAD WITH EYE TRACK © PATENT PENDING

MOORE BUSINESS FORMS, INC. FORM 4747-1 IS PRINTED IN U.S.A.

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOODWAY

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	T0	EG	TOPWID	STENCL	STENCR	VCH
A	50.00	50.00	0.0	309.60	1400.00	316.90	141.75	317.27	141.40	0.0	0.0	6.09
	50.00	50.00	0.0	309.60	1400.00	317.90	169.35	318.28	58.71	1356.79	1415.51	5.62
	100.00	50.00	0.0	310.10	1400.00	317.39	140.95	317.77	141.00	0.0	0.0	5.12
B	150.00	50.00	0.0	310.60	1400.00	318.04	127.31	318.32	194.51	0.0	0.0	5.74
	150.00	50.00	0.0	310.60	1400.00	318.71	137.86	319.09	62.75	1398.51	1461.26	5.67
	200.00	58.00	0.0	310.60	1400.00	319.26	284.16	319.32	283.48	0.0	0.0	2.93
C	250.00	50.00	0.0	311.10	1400.00	319.34	215.68	319.51	173.09	0.0	0.0	4.39
	250.00	50.00	0.0	311.10	1400.00	320.00	226.96	320.21	74.96	1345.48	1420.45	4.41
	300.00	50.00	0.0	311.60	1400.00	319.54	188.60	319.77	162.38	0.0	0.0	4.88
D	300.00	50.00	0.0	311.60	1400.00	320.17	198.71	320.45	69.27	1349.45	1418.71	4.90
	1000.00	1492.00	0.0	324.70	1310.00	329.96	126.16	331.10	49.61	0.0	0.0	8.68
	1800.00	1492.00	0.0	324.70	1310.00	330.02	124.47	331.21	35.00	1202.00	1237.00	8.78
E	1850.00	50.00	0.0	326.00	1310.00	330.59	93.80	332.26	40.71	0.0	0.0	10.43
	1850.00	50.00	0.0	326.00	1310.00	330.55	90.73	332.33	34.89	1202.00	1237.00	10.71
	1900.00	50.00	0.0	327.40	1310.00	333.93	107.89	335.12	72.05	0.0	0.0	9.71
F	1900.00	50.00	0.0	327.40	1310.00	333.96	81.93	336.50	20.04	1289.97	1310.00	12.84
	1938.00	38.00	0.0	327.40	1310.00	337.88	541.08	337.96	63.12	0.0	0.0	2.82
	1938.00	38.00	0.0	327.40	1310.00	337.91	534.61	338.01	93.07	1236.27	1329.33	2.86
G	1988.00	50.00	0.0	328.80	1310.00	337.87	492.64	338.01	132.75	0.0	0.0	3.42
	1988.00	50.00	0.0	328.80	1310.00	337.88	449.66	338.08	60.51	1182.66	1243.17	3.75
	2038.00	50.00	0.0	330.10	1310.00	337.81	319.05	338.11	103.30	0.0	0.0	4.67
H	2038.00	50.00	0.0	330.10	1310.00	337.74	246.75	338.24	35.00	1202.00	1237.00	5.68
	2450.00	412.00	0.0	332.50	1300.00	338.85	148.49	339.50	117.20	0.0	0.0	7.64
	2450.00	412.00	0.0	332.50	1300.00	339.20	118.48	340.62	38.41	1372.89	1411.29	10.03
I	2500.00	50.00	0.0	332.80	1300.00	339.31	164.11	339.83	120.83	0.0	0.0	7.07
	2500.00	50.00	0.0	332.80	1300.00	340.25	162.92	341.10	43.32	1370.85	1414.17	7.97
	2550.00	50.00	0.0	333.20	1300.00	339.67	126.36	340.27	119.69	0.0	0.0	8.27
J	2550.00	50.00	0.0	333.20	1300.00	340.45	112.35	341.66	41.34	1480.72	1522.06	10.05
	2596.00	46.00	342.50	333.20	1300.00	339.67	127.16	340.27	184.10	0.0	0.0	4.73
	2596.00	46.00	342.50	333.20	1300.00	340.67	243.26	341.66	117.75	0.0	0.0	8.23
K	2646.00	50.00	0.0	333.70	1300.00	341.14	150.84	340.71	38.85	1372.68	1411.53	7.55
	2646.00	50.00	0.0	333.70	1300.00	341.14	155.21	342.10	117.75	0.0	0.0	8.34
	2696.00	50.00	0.0	334.20	1300.00	340.40	135.97	341.16	114.10	0.0	0.0	8.19
L	2696.00	50.00	0.0	334.20	1300.00	341.34	134.49	342.58	34.11	1374.56	1408.67	9.32
	2696.00	50.00	0.0	334.20	1300.00	341.34	134.49	342.58	34.11	1374.56	1408.67	9.32
	2696.00	50.00	0.0	334.20	1300.00	341.34	134.49	342.58	34.11	1374.56	1408.67	9.32

SPEEDREAD WITH EYE TRACK PATENT PENDING

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
F 2800.00	104.00	0.0	0.0	335.30	1260.00	341.35	123.32	342.20	110.78	0.0	0.0	8.57
2800.00	104.00	0.0	0.0	335.30	1260.00	342.25	119.68	343.70	28.87	1376.41	1405.29	9.91
2850.00	50.00	0.0	0.0	335.80	1260.00	341.93	129.73	342.71	112.49	0.0	0.0	8.23
2850.00	50.00	0.0	0.0	335.80	1260.00	343.02	134.79	344.22	31.63	1375.46	1407.09	9.09
2900.00	50.00	0.0	0.0	336.60	1260.00	342.65	110.77	343.35	172.63	0.0	0.0	9.20
2900.00	50.00	0.0	0.0	336.60	1260.00	343.46	119.58	344.73	29.80	1505.04	1534.84	9.37
2950.00	50.00	0.0	0.0	336.60	1260.00	343.65	241.03	343.81	255.15	0.0	0.0	4.74
2950.00	50.00	0.0	0.0	336.60	1260.00	344.46	239.02	344.77	69.65	1482.71	1552.36	5.18
3000.00	50.00	0.0	0.0	337.10	1260.00	343.59	162.16	344.11	120.39	0.0	0.0	6.91
3000.00	50.00	0.0	0.0	337.10	1260.00	344.21	143.12	345.19	42.67	1371.12	1413.79	8.45
G 3050.00	50.00	0.0	0.0	337.60	1260.00	343.82	136.40	344.53	114.21	0.0	0.0	7.92
3050.00	50.00	0.0	0.0	337.60	1260.00	344.38	118.04	345.78	33.98	1374.59	1408.57	9.85

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
A 50.000	1400.000	316.900	0.0	0.0	0.0	141.404	0.0	50.000
50.000	1400.000	317.900	1.000	0.0	0.0	58.714	82.691	50.000
100.000	1400.000	317.387	0.0	0.488	0.0	141.005	0.0	50.000
100.000	1400.000	318.238	0.851	0.339	0.0	58.498	82.507	50.000
150.000	1400.000	318.041	0.0	0.654	0.0	194.513	0.0	50.000
150.000	1400.000	318.710	0.669	0.472	0.0	62.752	131.761	50.000
208.000	1400.000	319.263	0.0	1.221	0.0	583.483	0.0	58.000
208.000	1400.000	319.931	0.669	1.221	0.0	138.150	445.333	58.000
258.000	1400.000	319.337	0.0	0.074	0.0	173.094	0.0	50.000
258.000	1400.000	319.995	0.658	0.064	0.0	74.965	98.129	50.000
B 308.000	1400.000	319.543	0.0	0.206	0.0	162.376	0.0	50.000
308.000	1400.000	320.171	0.628	0.176	0.0	69.267	93.109	50.000
C 1600.000	1310.000	329.959	0.0	10.416	0.0	49.612	0.0	1492.000 HV
1600.000	1310.000	330.017	0.058	9.845	0.0	35.001	14.611	1492.000
1850.000	1310.000	330.593	0.0	0.634	0.0	40.708	0.0	50.000
1850.000	1310.000	330.547	-0.046	0.531	0.0	34.885	5.823	50.000
1900.000	1310.000	333.929	0.0	3.335	0.0	72.048	0.0	50.000
1900.000	1310.000	333.962	0.034	3.415	0.0	20.035	52.013	50.000
1938.000	1310.000	337.881	0.0	3.953	0.0	163.123	0.0	38.000
1938.000	1310.000	337.915	0.033	3.952	0.0	93.066	70.057	38.000
1988.000	1310.000	337.867	0.0	-0.014	0.0	132.754	0.0	50.000
1988.000	1310.000	337.883	0.016	-0.032	0.0	60.506	72.249	50.000
2038.000	1310.000	337.815	0.0	-0.052	0.0	103.301	0.0	50.000
2038.000	1310.000	337.739	-0.076	-0.144	0.0	35.001	68.300	50.000
2450.000	1300.000	338.849	0.0	1.034	0.0	117.198	0.0	412.000
2450.000	1300.000	339.202	0.353	1.463	0.0	38.405	78.793	412.000
D 2500.000	1300.000	339.309	0.0	0.460	0.0	120.830	0.0	50.000
2500.000	1300.000	340.247	0.938	1.046	0.0	43.323	77.508	50.000

SPEEDHEAD WITH EYE TRACE PATENT PENDING

MOORE BUSINESS FORMS, INC. FORM 2781-1-55 PRINTED IN U.S.A. 517

DATA PROFILE	LAST TYPE	CROSS ENC	SECTION TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF															
2500.000	1800.000	539.669	0.0	0.780	0.360	0.0	0.0	119.692	0.0	50.000										
2500.000	1800.000	340.446	0.0	0.780	0.201	0.0	0.0	41.344	78.349	50.000										
2390.000	1300.000	339.670	0.0	1.000	0.001	0.0	0.0	119.891	0.0	46.000										
2390.000	1300.000	340.670	0.0	1.000	0.221	0.0	0.0	184.097	-64.205	50.000										
2646.000	1300.000	340.083	0.0	1.054	0.413	0.0	0.0	117.759	0.0	50.000										
2646.000	1300.000	341.137	0.0	0.940	0.467	0.0	0.0	38.850	78.909	50.000										
2696.000	1300.000	340.404	0.0	0.940	0.322	0.0	0.0	114.103	0.0	50.000										
2696.000	1300.000	341.343	0.0	0.896	0.208	0.0	0.0	34.112	79.991	50.000										
2000.000	1260.000	341.854	0.0	0.896	0.950	0.0	0.0	110.778	0.0	104.000										
2000.000	1260.000	342.250	0.0	0.896	0.906	0.0	0.0	28.874	01.904	50.000										
2850.000	1260.000	343.932	0.0	1.091	0.577	0.0	0.0	112.490	0.0	50.000										
2850.000	1260.000	343.022	0.0	0.810	0.772	0.0	0.0	31.633	00.858	50.000										
2900.000	1260.000	342.652	0.0	0.810	0.720	0.0	0.0	172.628	0.0	50.000										
2900.000	1260.000	343.461	0.0	0.810	0.439	0.0	0.0	29.800	142.828	50.000										
2950.000	1260.000	343.650	0.0	0.809	0.998	0.0	0.0	255.149	0.0	50.000										
2950.000	1260.000	344.459	0.0	0.809	0.998	0.0	0.0	69.650	185.499	50.000										
3000.000	1260.000	343.592	0.0	0.623	-0.058	0.0	0.0	120.389	0.0	50.000										
3000.000	1260.000	344.214	0.0	0.623	-0.245	0.0	0.0	42.667	77.721	50.000										
3050.000	1260.000	343.817	0.0	0.566	0.226	0.0	0.0	114.212	0.0	50.000										
3050.000	1260.000	344.384	0.0	0.566	0.169	0.0	0.0	33.982	80.229	50.000										
1	0.0	0.0	0.0	0.446	0.524	0.0	0.0													
2	4.000	0.0	0.446	3.567	-4.356															

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