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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
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T1 LUMBERTON NC IVEY BRANCH  
 T2 FLOOD INSURANCE STUDY  
 T3 10-YEAR W DIKE AT CROSS SECTION 650 REMOVED JUNE 1980

J1 ICHECK INQ NIKV IDIR STRB METRIC RVINS G WSEL FQ  
 0. 2. 0. 0. 0.001500 0. 0. 0. 125.000 0.

J2 WPROF TPLDT PRFVS XSECV XSECH FN ALLDC IEW CRNIM ITRACE  
 1.000 0. -1.000 5.000 590.000 0. 0. 0. 0. 0.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000 1.000 50.000 51.000 42.000 39.000 0. 38.000 21.000 22.000

53.000 54.000 4.000 0. 38.000 1.000 58.000 33.000 50.000 40.000

41.000 25.000 0. 38.000 1.000 43.000 13.000 55.000 14.000 26.000

15.000 56.000 8.000 35.000 60.000 59.000 0. 38.000 1.000 7.000

16.000 17.000 18.000 34.000 21.000 22.000 53.000 54.000 4.000 0.

NC 0.000 0.000 0.000 0.100 0.300 0. 0. 0. 0. 0.  
 OT 5.000 1620.000 2180.000 2430.000 3630.000 2430.000 0. 0. 0. 0.  
 ET 0. 0. 0. 0. 0. 0. 7.100 1050.000 1370.000 0. 0.

X1 650.000 19.000 1190.000 1210.000 0. 0. 0. 0. 0. 0.  
 GR 130.000 0. 129.000 230.000 128.000 555.000 126.000 585.000 124.000 780.000  
 GR 122.000 950.000 120.900 1085.000 119.200 1140.000 119.900 1190.000 120.300 1192.000  
 GR 115.900 1205.000 120.400 1208.000 121.800 1210.000 121.800 1250.000 122.400 1600.000  
 GR 124.000 1700.000 125.000 1775.000 126.000 1920.000 126.000 2040.000 0. 0.  
 ET 0. 0. 0. 0. 0. 0. 100.200 0. 0. 0.

X1 1640.000 21.000 1034.000 1066.000 990.000 990.000 990.000 0. 0. 0.  
 GR 130.200 0. 132.000 125.000 153.900 450.000 132.000 665.000 130.000 750.000  
 GR 125.000 825.000 128.100 900.000 126.700 950.000 125.200 980.000 132.700 1000.000  
 GR 124.100 1020.000 123.200 1034.000 120.300 1039.000 117.800 1050.000 120.400 1061.000  
 GR 123.700 1066.000 123.900 1100.000 123.800 1150.000 126.000 1335.000 130.000 1440.000  
 GR 134.000 1900.000 0. 0. 0. 0. 0. 0. 0. 0.

X1 1710.000 0. 0. 0. 70.000 70.000 70.000 0. 0. 0.  
 SB 1.250 1.500 3.000 650.000 11.000 1.000 80.000 0. 0. 0.

X1 1770.000 19.000 1034.000 1069.000 60.000 60.000 60.000 0. 0. 0.  
 X2 0. 0. 1.000 125.500 129.000 0. 0. 0. 0. 0.  
 GR 130.000 0. 132.000 100.000 134.000 310.000 134.000 605.000 132.000 695.000

PRINTED IN U.S.A.



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HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
ERROR CORR - 01,02  
MODIFICATION - 50,51,52,53  
\*\*\*\*\*

T1 LUMBERTON NC IVEY BRANCH  
T2 FLOOD INSURANCE STUDY  
T3 50-YEAR Q DIKE AT CROSS SECTION 650 REMOVED JUNE 1980

J1 TCHECK INQ NINV IDIR STRI METRIC HVINS Q WSEL FQ  
0. 3. 0. 0. 0.001500 0. 0. 0. 125.000 0.

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLOC IBW CHNIM ITRACE  
2.000 0. -1.000 5.000 500.000 0. 0. 0. 0. 0.

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HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977

ERROR CORR - 01,02

MODIFICATION - 50,51,52,53

T1 LUMBERTON NC IVEY BRANCH  
T2 FLOOD INSURANCE STUDY  
T3 100-YEAR Q DIKE AT CROSS SECTION 050 REMOVED JUNE 1980

J1 ICHECK INQ MINV IDIR STRT METRIC HVINS G WSEL FG  
0. 4. 0. 0. 0.001500 0. 0. 0. 125.000 0.

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLOC IBW CHNIM ITRACE  
3.000 0. -1.000 5.000 500.000 0. 0. 0. 0. 0.

HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977

ERROR CORR - 01,02  
MODIFICATION - 50,51,52,53

T1 LUMBERTON NC IVEY BRANCH  
T2 FLOOD INSURANCE STUDY  
T3 500-YEAR Q DIKE AT CROSS SECTION 650 REMOVED JUNE 1980

J1 ICHK INQ MINV IDIR STRT METRIC EVINS G WSEL FG  
0. 5. 0. 0. 0.001500 0. 0. 0. 0. 125.000 0.

J2 NPROF TPLDT PRFVS XSECV XSECH FN ALLOC IBW CHNIM ITRACE  
15.000 0. 1.000 5.000 500.000 0. 0. 0. 0. 0. 0.

HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53

NOTE - ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10-YEAR Q DIKE AT CROSS  
 SUMMARY PRINTOUT

SECNO	CWSEL	DIFWSP	DIFWSX	ELMIN	XLCH
650.000	123.47	0.	0.	116.90	0.
650.000	123.88	0.41	0.	116.90	0.
650.000	124.04	0.16	0.	116.90	0.
650.000	124.71	0.67	0.	116.90	0.
1640.000	125.69	0.	2.19	117.80	990.00
1640.000	126.12	0.47	2.24	117.80	990.00
1640.000	126.30	0.18	2.26	117.80	990.00
1640.000	127.02	0.71	2.31	117.80	990.00
1710.000	126.11	0.	0.46	117.80	70.00
1710.000	126.64	0.53	0.52	117.80	70.00
1710.000	126.83	0.19	0.53	117.80	70.00
1710.000	127.59	0.76	0.58	117.80	70.00
1770.000	129.47	0.	3.36	118.30	60.00
1770.000	129.73	0.26	3.08	118.30	60.00
1770.000	129.82	0.16	2.99	118.30	60.00
1770.000	130.22	0.39	2.62	118.30	60.00
1840.000	129.48	0.	0.01	118.30	70.00
1840.000	129.75	0.26	0.02	118.30	70.00
1840.000	129.85	0.10	0.02	118.30	70.00
1840.000	130.26	0.41	0.04	118.30	70.00
2300.000	129.55	0.	0.07	119.20	460.00
2300.000	129.84	0.29	0.10	119.20	460.00
2300.000	129.96	0.12	0.11	119.20	460.00
2300.000	130.45	0.48	0.19	119.20	460.00
2920.000	129.67	0.	0.08	120.80	620.00
2920.000	129.96	0.33	0.12	120.80	620.00
2920.000	130.09	0.13	0.13	120.80	620.00
2920.000	130.65	0.56	0.21	120.80	620.00

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10-YEAR G DIKE AT CROSS  
SUMMARY PRINTOUT

SECNO	STCHL	STCHR	SSTA	ENDST	TOPWID
650.00A	1190.00	1210.00	825.46	1666.57	841.11
650.00B	1190.00	1210.00	790.24	1692.47	902.23
650.00C	1190.00	1210.00	775.86	1703.18	927.32
650.00D	1190.00	1210.00	710.70	1753.31	1042.61
1640.000	1034.00	1066.00	970.95	1305.79	299.66
1640.000	1034.00	1066.00	961.58	1338.18	343.76
1640.000	1034.00	1066.00	957.97	1342.91	353.00
1640.000	1034.00	1066.00	938.75	1361.64	394.51
1710.000	1034.00	1066.00	961.70	1338.02	343.45
1710.000	1034.00	1066.00	950.99	1352.07	370.88
1710.000	1034.00	1066.00	944.96	1357.08	382.86
1710.000	1034.00	1066.00	917.71	1377.11	433.96
1770.000	1034.00	1069.00	858.07	1416.08	558.02
1770.000	1034.00	1069.00	830.54	1417.94	587.40
1770.000	1034.00	1069.00	819.55	1418.68	599.14
1770.000	1034.00	1069.00	0.	1650.05	872.30
1840.000	1034.00	1069.00	857.44	1416.12	558.69
1840.000	1034.00	1069.00	828.30	1418.09	589.79
1840.000	1034.00	1069.00	816.93	1418.86	601.93
1840.000	1034.00	1069.00	0.	1694.12	920.63
2300.000	838.00	862.00	454.41	1820.00	1365.59
2300.000	838.00	862.00	451.55	1820.00	1368.45
2300.000	838.00	862.00	450.38	1820.00	1369.62
2300.000	838.00	862.00	0.	1820.00	1439.23
2920.000	586.00	614.00	277.83	1087.08	418.69
2920.000	585.00	614.00	266.09	1208.75	717.76
2920.000	586.00	614.00	231.90	1220.00	790.25
2920.000	585.00	614.00	48.12	1220.00	1039.24

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SECNO	CWSEL	KRATIO	K*CHSL	DIFWSP	ELTRD	ELLC	AREA
650.000	123.47	0.	0.	0.	0.	0.	1415.66
650.000	123.48	0.	0.	0.41	0.	0.	1776.81
650.000	124.94	0.	0.	0.16	0.	0.	1925.78
650.000	124.71	0.	0.	0.67	0.	0.	2584.07
1640.000	125.55	0.55	0.91	0.	0.	0.	509.02
1640.000	126.12	0.52	0.91	0.47	0.	0.	660.95
1640.000	126.30	0.52	0.91	0.18	0.	0.	723.77
1640.000	127.02	0.49	0.91	0.71	0.	0.	989.47
1710.000	126.11	1.28	0.	0.	0.	0.	658.91
1710.000	126.64	1.31	0.	0.55	0.	0.	850.11
1710.000	126.83	1.31	0.	0.19	0.	0.	921.87
1710.000	127.59	1.30	0.	0.76	0.	0.	1233.52
1770.000	129.47	4.05	8.33	0.	129.00	125.50	2197.59
1770.000	129.73	3.33	8.33	0.26	129.00	125.50	2339.47
1770.000	129.82	3.14	8.33	0.10	129.00	125.50	2398.17
1770.000	130.22	2.52	8.33	0.39	129.00	125.50	2667.34
1840.000	129.48	1.00	0.	0.	0.	0.	2200.76
1840.000	129.75	1.01	0.	0.26	0.	0.	2351.35
1840.000	129.85	1.01	0.	0.10	0.	0.	2412.33
1840.000	130.26	1.01	0.	0.41	0.	0.	2704.61
2300.000	129.55	1.48	1.96	0.	0.	0.	4198.89
2300.000	129.84	1.54	1.96	0.29	0.	0.	4589.37
2300.000	129.96	1.57	1.96	0.12	0.	0.	4749.92
2300.000	130.45	1.67	1.96	0.48	0.	0.	5429.44
2920.000	129.63	0.29	2.58	0.	0.	0.	1165.61
2920.000	129.96	0.30	2.58	0.33	0.	0.	1356.33
2920.000	130.09	0.30	2.58	0.13	0.	0.	1455.77
2920.000	130.68	0.33	2.58	0.56	0.	0.	1963.25

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10-YEAR 0 DIKE AT CROS  
SUMMARY PRINTOUT

SECNO	CWSEL	Q	QLOB	VLOB	QCH	VCH	QROE	VROB	DEPTH	QLOBX	QCHX	QROBX
650.000	123.47	1620.00	908.59	1.22	260.48	2.93	450.93	0.78	6.57	56.09	16.08	27.84
650.000	123.68	2180.00	1169.61	1.29	302.38	3.11	708.01	0.91	6.98	53.65	13.87	32.48
650.000	124.04	2430.00	1285.59	1.32	319.74	3.18	824.67	0.97	7.14	52.91	13.16	33.94
650.000	124.71	3630.00	1843.48	1.45	393.13	3.45	1393.39	1.16	7.81	50.78	10.83	38.39
1640.000	125.65	1620.00	47.13	1.55	1146.96	6.33	425.91	1.43	7.85	2.91	70.80	26.29
1640.000	126.12	2180.00	79.69	1.73	1375.24	7.01	725.07	1.73	8.32	3.66	63.08	33.26
1640.000	126.30	2430.00	95.68	1.78	1461.47	7.24	872.85	1.86	8.50	3.94	60.14	35.92
1640.000	127.02	3630.00	189.09	2.05	1836.16	8.17	1674.75	2.39	9.22	5.21	50.58	44.21
1710.000	126.11	1620.00	59.07	1.29	1023.61	5.22	537.32	1.29	8.31	3.65	63.19	33.17
1710.000	126.64	2180.00	98.12	1.39	1201.24	5.64	880.64	1.55	8.84	4.50	55.10	40.40
1710.000	126.83	2430.00	118.13	1.45	1279.42	5.84	1032.45	1.66	9.03	4.86	52.65	42.49
1710.000	127.59	3630.00	233.81	1.68	1619.79	6.65	1776.40	2.09	9.79	6.44	44.62	48.94
1770.000	129.47	1620.00	188.97	0.50	439.10	1.56	991.93	0.64	11.17	11.66	27.10	61.23
1770.000	129.73	2180.00	266.74	0.63	573.38	1.98	1339.87	0.82	11.43	12.24	26.30	61.46
1770.000	129.82	2430.00	303.11	0.69	631.68	2.15	1495.21	0.90	11.52	12.47	25.99	61.53
1770.000	130.22	3630.00	490.28	0.92	900.65	2.93	2239.07	1.23	11.92	13.51	24.81	61.68
1840.000	129.48	1620.00	189.16	0.50	438.79	1.56	992.03	0.64	11.18	11.68	27.09	61.24
1840.000	129.75	2180.00	267.79	0.63	572.01	1.97	1340.20	0.82	11.45	12.28	26.24	61.48
1840.000	129.85	2430.00	304.51	0.68	629.92	2.14	1495.57	0.90	11.55	12.53	25.92	61.55
1840.000	130.26	3630.00	494.41	0.91	896.01	2.90	2239.58	1.21	11.96	13.62	24.68	61.70
2300.000	129.55	1620.00	590.59	0.40	211.71	1.05	817.71	0.32	10.35	36.46	13.07	50.48
2300.000	129.64	2180.00	782.87	0.50	266.09	1.28	1131.04	0.40	10.64	35.91	12.21	51.88
2300.000	129.95	2430.00	857.61	0.53	288.87	1.37	1273.52	0.44	10.76	35.70	11.89	52.41
2300.000	130.45	3630.00	1269.54	0.69	390.17	1.75	1970.30	0.58	11.25	34.97	10.75	54.28
2920.000	129.63	1620.00	901.35	1.07	583.47	3.10	135.18	1.00	8.83	55.64	36.02	8.34
2920.000	129.96	2180.00	1244.03	1.31	734.42	3.71	201.56	0.95	9.15	57.07	33.69	9.28
2920.000	130.09	2430.00	1393.89	1.41	793.30	3.94	242.81	0.92	9.29	57.36	32.65	9.99
2920.000	130.55	3630.00	2089.91	1.69	1022.90	4.72	517.19	1.02	9.85	57.57	28.18	14.25

PRINTED IN U.S.A.

10-YEAR D DIKE AT CROSS  
SUMMARY PRINTOUT

SECNO	CWSEL	VOL	K*XL	K*XNCH	K*XNR	.01K	STCHL	STCHR	SSTA	ENDST	TOPWID
650.000	123.47	0.	90.50	50.00	90.00	418.13	1190.00	1210.00	825.46	1666.57	841.11
650.000	123.88	0.	90.00	50.00	90.00	562.32	1190.00	1210.00	790.24	1692.47	902.23
650.000	124.04	0.	90.00	50.00	90.00	626.25	1190.00	1210.00	775.86	1703.18	927.32
650.000	124.71	0.	90.00	50.00	90.00	936.99	1190.00	1210.00	710.70	1753.31	1042.61
1640.000	125.65	21.87	90.00	50.00	90.00	229.62	1034.00	1066.00	970.95	1305.79	299.66
1640.000	126.12	27.70	90.00	50.00	90.00	294.20	1034.00	1066.00	961.58	1338.18	343.76
1640.000	126.30	30.11	90.00	50.00	90.00	323.87	1034.00	1066.00	957.97	1342.91	353.00
1640.000	127.02	40.61	90.00	50.00	90.00	460.32	1034.00	1066.00	938.75	1361.64	394.51
1710.000	126.11	22.61	90.00	50.00	90.00	293.26	1034.00	1066.00	961.70	1338.02	343.45
1710.000	126.64	28.92	90.00	50.00	90.00	386.66	1034.00	1066.00	950.99	1352.07	370.88
1710.000	126.83	31.43	90.00	50.00	90.00	424.15	1034.00	1066.00	944.96	1357.08	382.86
1710.000	127.59	42.39	90.00	50.00	90.00	596.76	1034.00	1066.00	917.71	1377.11	433.96
1770.000	129.47	24.78	90.00	50.00	90.00	1169.14	1034.00	1069.00	858.07	1411.08	558.02
1770.000	129.73	31.11	90.00	50.00	90.00	1289.04	1034.00	1069.00	830.54	1411.54	587.40
1770.000	129.82	33.72	90.00	50.00	90.00	1330.33	1034.00	1069.00	819.55	1418.00	599.14
1770.000	130.22	45.08	90.00	50.00	90.00	1504.37	1034.00	1069.00	0.	1650.00	872.30
1840.000	129.48	28.31	90.00	50.00	90.00	1191.38	1034.00	1069.00	857.44	1416.12	559.69
1840.000	129.75	34.88	90.00	50.00	90.00	1297.40	1034.00	1069.00	828.30	1418.09	587.79
1840.000	129.85	37.58	90.00	50.00	90.00	1340.29	1034.00	1069.00	816.93	1418.86	601.33
1840.000	130.26	49.40	90.00	50.00	90.00	1524.12	1034.00	1069.00	0.	1694.12	920.67
2300.000	129.55	62.10	90.00	50.00	90.00	1766.96	838.00	862.00	454.41	1820.00	1365.00
2300.000	129.84	71.53	90.00	50.00	90.00	2000.13	838.00	862.00	451.55	1820.00	1368.40
2300.000	129.96	75.40	90.00	50.00	90.00	2100.04	838.00	862.00	450.38	1820.00	1369.62
2300.000	130.45	92.35	90.00	50.00	90.00	2539.44	838.00	862.00	0.	1820.00	1439.23
2920.000	129.63	100.28	90.00	50.00	90.00	511.92	586.00	614.00	277.83	1087.08	418.69
2920.000	129.96	113.84	90.00	50.00	90.00	593.57	586.00	614.00	266.09	1208.75	717.76
2920.000	130.09	119.56	90.00	50.00	90.00	631.58	586.00	614.00	251.90	1220.00	790.25
2920.000	130.65	144.55	90.00	50.00	90.00	828.16	586.00	614.00	48.12	1220.00	1039.24

SUMMARY OF ERRORS

CAUTION SECNO= 1770.000 PROFILE= 1 HYDRAULIC JUMP D.S.  
 CAUTION SECNO= 1770.000 PROFILE= 2 HYDRAULIC JUMP D.S.



THIS RUN EXECUTED 06/05/80 9.276

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
 \*\*\*\*\*

T1 LUMBERTON NC IVEY BRANCH  
 T2 FLOOD INSURANCE STUDY  
 T3 100-YEAR Q NATURAL CONDITIONS

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FO  
 0. 4. 0. 0. 0.001500 0. 0. 0. 125.000 0.

J2 NPROF IPLDT PRFVS XSECV XSECH FN ALLOC IBW CHNIM ITRACE  
 1.000 0. -1.000 5.900 500.000 0. 0. 0. 0. 0.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000 1.000 50.000 51.000 42.000 39.000 0. 38.000 21.000 22.000

53.000 54.000 4.000 0. 38.000 1.000 58.000 33.000 50.000 40.000

41.000 25.000 0. 38.000 1.000 43.000 13.000 55.000 14.000 26.000

15.000 56.000 8.000 35.000 60.000 59.000 0. 38.000 1.000 7.000

16.000 17.000 18.000 34.000 21.000 22.000 53.000 54.000 4.000 0.

NC 0.090 0.090 0.050 0.100 0.300 0. 0. 0. 0. 0.  
 QT 5.000 1620.000 2180.000 2430.000 3630.000 2430.000 0. 0. 0. 0.  
 ET 0. 0. 0. 0. 0. 0. 7.100 1050.000 1370.000 0.

X1 650.000 19.000 1190.000 1210.000 0. 0. 0. 0. 0. 0.  
 GR 130.000 0. 129.000 230.000 128.000 555.000 126.000 585.000 124.000 780.000  
 GR 122.000 950.000 120.900 1085.000 119.200 1140.000 119.900 1190.000 120.300 1192.000  
 GR 116.900 1200.000 120.400 1208.000 121.800 1210.000 121.800 1250.000 122.400 1600.000  
 GR 124.000 1700.000 125.000 1775.000 126.000 1920.000 128.000 2040.000 0. 0.  
 ET 0. 0. 0. 0. 0. 0. 100.200 0. 0. 0.

X1 1640.000 21.000 1034.000 1066.000 990.000 990.000 990.000 0. 0. 0.  
 GR 130.200 0. 132.000 125.000 133.900 450.000 132.000 665.000 130.000 750.000  
 GR 128.000 825.000 120.100 900.000 126.700 950.000 125.200 980.000 132.700 1000.000  
 GR 124.100 1020.000 123.600 1034.000 120.300 1039.000 117.800 1050.000 120.400 1061.000  
 GR 123.700 1066.000 123.900 1100.000 123.800 1150.000 126.000 1335.000 130.000 1440.000  
 GR 134.000 1900.000 0. 0. 0. 0. 0. 0. 0. 0.

X1 1710.000 0. 0. 0. 70.000 70.000 70.000 0. 0. 0.  
 SB 1.250 1.500 3.000 650.000 11.000 1.000 80.000 0. 0. 0.

X1 1770.000 19.000 1034.000 1069.000 60.000 60.000 60.000 0. 0. 0.  
 Y2 0. 0. 1.000 125.500 129.000 0. 0. 0. 0. 0.

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GR	130.000	800.000	125.100	900.000	257.100	250.000	125.100	1010.000	125.200	1034.000
GR	110.300	1050.000	124.900	1069.000	122.300	1100.000	123.100	1190.000	126.200	1200.000
GR	126.000	1370.000	128.000	1405.000	130.000	1420.000	130.500	1950.000	0.	0.
X1	1840.000	0.	0.	0.	70.000	70.000	70.000	0.	0.	0.
X1	2500.000	19.000	838.000	862.000	460.000	460.000	460.000	0.	0.	0.
GR	130.000	0.	132.000	140.000	132.000	280.000	130.000	450.000	128.000	470.000
GR	126.000	630.000	124.000	730.000	122.000	770.000	125.800	800.000	124.900	838.000
GR	121.300	842.000	119.200	850.000	121.400	858.000	124.000	862.000	124.000	900.000
GR	123.500	950.000	126.000	1012.000	128.000	1480.000	128.000	1820.000	0.	0.
X1	2920.000	17.000	586.000	614.000	620.000	620.000	620.000	0.	0.	0.
GR	130.800	0.	136.000	265.000	126.000	405.000	125.900	500.000	127.300	586.000
GR	123.000	591.000	120.800	600.000	122.600	609.000	126.700	614.000	126.600	650.000
GR	132.100	683.000	131.700	700.000	130.000	726.000	131.600	820.000	130.000	880.000
GR	129.600	1075.000	130.000	1220.000	0.	0.	0.	0.	0.	0.
EJ	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
ERROR CORR - 01,02  
MODIFICATION - 50,51,52,53  
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T1 LUMBERTON NC IVEY BRANCH  
T2 FLOOD INSURANCE STUDY  
T3 100-YR Q FLOWWAY RUN

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	0.	6.	0.	0.	0.001500	0.	0.	0.	125.000	0.
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.	-1.000	5.000	500.000	0.	0.	0.	0.	0.

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR - 01.02  
 MODIFICATION - 50,51,52,53  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

100-YEAR Q NATURAL  
 SUMMARY PRINTOUT

SECNO	CWSEL	DIFWSP	DIFWSX	ELMIN	XLCH
650.000	124.04	0.	0.	116.90	0.
650.000	125.07	1.03	0.	116.90	0.
1640.000	126.30	0.	2.26	117.80	990.00
1640.000	127.20	0.90	2.13	117.80	990.00
1710.000	126.83	0.	0.53	117.80	70.00
1710.000	127.79	0.96	0.59	117.80	70.00
1770.000	129.82	0.	2.99	118.30	60.00
* 1770.000	129.56	-0.27	1.76	118.30	60.00
1840.000	129.85	0.	0.02	118.30	70.00
1840.000	129.74	-0.11	0.18	118.30	70.00
2300.000	129.96	0.	0.11	119.20	460.00
2300.000	130.74	0.78	1.00	119.20	460.00
2920.000	130.09	0.	0.13	120.80	620.00
2920.000	132.14	2.05	1.41	120.80	620.00

100-YEAR Q. NATURAL  
SUMMARY PRINTOUT

SECNO	STCHL	STCHR	SSTA	ENDST	TOPWID
650.000	1190.00	1210.00	775.86	1703.18	927.32
650.000	1190.00	1210.00	1050.00	1370.00	320.00
1640.000	1034.00	1066.00	957.97	1342.91	353.00
1640.000	1034.00	1066.00	1012.79	1100.00	87.21
1710.000	1034.00	1066.00	944.96	1357.08	382.86
1710.000	1034.00	1066.00	1011.40	1100.00	88.60
1770.000	1034.00	1069.00	819.55	1418.68	599.14
* 1770.000	1034.00	1069.00	1001.50	1101.50	100.00
1840.000	1034.00	1069.00	816.93	1418.86	601.93
1840.000	1034.00	1069.00	1001.50	1101.50	100.00
2300.000	838.00	862.00	450.38	1820.00	1369.62
2300.000	838.00	862.00	800.00	900.00	100.00
2920.000	586.00	614.00	231.90	1220.00	790.25
2920.000	586.00	614.00	550.00	650.00	100.00

100-YEAR Q NATURAL  
SUMMARY PRINTOUT

SECNO	CWSEL	KRATIO	K*CHSL	DIFWSP	ELTRD	ELLC	AREA
650.000	124.04	0.	0.	0.	0.	0.	1925.78
650.000	125.07	0.	0.	1.03	0.	0.	1326.35
1640.000	126.30	0.52	0.91	0.	0.	0.	723.77
1640.000	127.20	0.49	0.91	0.90	0.	0.	404.54
1710.000	126.83	1.31	0.	0.	0.	0.	921.87
1710.000	127.79	1.18	0.	0.96	0.	0.	457.12
1770.000	129.82	3.14	8.33	0.	129.00	125.50	2398.17
* 1770.000	129.56	1.40	8.33	-0.27	129.00	125.50	639.77
1840.000	129.85	1.01	0.	0.	0.	0.	2412.33
1840.000	129.74	1.04	0.	-0.11	0.	0.	657.61
2300.000	129.96	1.57	1.96	0.	0.	0.	4749.92
2300.000	130.74	0.99	1.96	0.78	0.	0.	690.94
2920.000	130.09	0.30	2.58	0.	0.	0.	1455.77
2920.000	132.14	0.94	2.58	2.05	0.	0.	641.42



100-YEAR Q NATURAL  
SUMMARY PRINTOUT

SECNO	CWSEL	Q	QLOB	VLOB	QCH	VCH	QROB	VROB	DEPTH	QLOBX	QCHX	QROBX
650.000	124.04	2430.00	1285.59	1.32	319.74	3.18	824.67	0.97	7.14	52.91	13.16	33.94
650.000	125.07	2430.00	1288.42	1.86	437.49	3.61	704.08	1.38	8.17	53.02	18.00	28.97
1640.000	126.30	2430.00	95.68	1.78	1461.47	7.24	872.85	1.86	8.50	3.94	60.14	35.92
1640.000	127.20	2430.00	157.57	2.71	1947.38	8.44	325.05	2.81	9.40	6.48	60.14	13.38
1710.000	126.83	2430.00	118.13	1.45	1279.42	5.84	1032.45	1.66	9.03	4.86	52.65	42.49
1710.000	127.79	2430.00	180.71	2.54	1891.06	7.57	358.24	2.63	9.99	7.44	77.82	14.74
1770.000	129.82	2430.00	303.11	0.69	631.68	2.15	1495.21	0.90	11.52	12.47	25.99	61.53
1770.000	129.56	2430.00	341.26	2.13	1592.71	5.61	496.03	2.54	11.26	14.04	65.54	20.41
1840.000	129.85	2430.00	304.51	0.68	629.92	2.14	1495.57	0.90	11.55	12.53	25.92	61.53
1840.000	129.74	2430.00	346.24	2.09	1584.18	5.46	499.58	2.48	11.44	14.25	65.19	20.56
2300.000	129.96	2430.00	867.61	0.53	288.87	1.37	1273.52	0.44	10.76	35.70	11.89	52.41
2300.000	130.74	2430.00	448.91	2.19	1346.99	5.85	634.10	2.48	11.54	18.47	55.43	26.09
2920.000	130.09	2430.00	1393.99	1.41	793.30	3.94	242.81	0.92	9.29	57.36	32.65	9.99
2920.000	132.14	2430.00	412.20	2.23	1557.60	6.02	260.20	2.33	11.34	16.95	64.10	18.98

100-YEAR Q NATURAL  
SUMMARY PRINTOUT

SECNO	CWSEL	VOL	K*XNL	K*XNCH	K*XNR	.01K	STCHL	STCHR	SSTA	ENOST	TOPWID
650.000	124.04	0.	90.00	50.00	90.00	626.25	1190.00	1210.00	775.86	1703.18	927.32
650.000	125.07	9.	90.00	50.00	90.00	624.95	1190.00	1210.00	1050.00	1370.00	320.00
1640.000	126.30	30.11	90.00	50.00	90.00	323.87	1034.00	1066.00	957.97	1342.91	353.00
1640.000	127.20	19.67	90.00	50.00	90.00	303.52	1034.00	1066.00	1012.79	1100.00	87.21
1710.000	126.83	31.43	90.00	50.00	90.00	424.15	1034.00	1066.00	944.96	1357.08	382.86
1710.000	127.79	20.36	90.00	50.00	90.00	356.94	1034.00	1066.00	1011.40	1100.00	88.60
1770.000	129.82	33.72	90.00	50.00	90.00	1330.33	1034.00	1069.00	819.55	1418.68	599.14
* 1770.000	129.56	21.12	90.00	50.00	90.00	499.92	1034.00	1069.00	1001.50	1101.50	100.00
1840.000	129.85	37.58	90.00	50.00	90.00	1340.29	1034.00	1069.00	816.93	1418.86	601.93
1840.000	129.74	22.16	90.00	50.00	90.00	521.17	1034.00	1069.00	1001.50	1101.50	100.00
2300.000	129.96	75.40	90.00	50.00	90.00	2100.04	838.00	862.00	450.38	1820.00	1369.62
2300.000	130.74	29.28	90.00	50.00	90.00	518.44	838.00	862.00	800.00	900.00	100.00
2920.000	130.09	119.56	90.00	50.00	90.00	631.58	586.00	614.00	231.90	1220.00	790.25
2920.000	132.14	38.76	90.00	50.00	90.00	488.11	586.00	614.00	550.00	650.00	100.00

SUMMARY OF ERRORS

CAUTION SECNO= 1770.000 PROFILE= 2 HYDRAULIC JUMP D.S.

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53  
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T1 LUMBERTON NC TVEY BRANCH  
 T2 FLOOD INSURANCE STUDY  
 T3 100-YEAR Q NATURAL CONDITIONS

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ  
 0. 4. 0. 0. 0.001500 0. 0. 0. 125.000 0.

J2 NPROP IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE  
 1.000 0. -1.000 5.000 500.000 0. 0. 0. 0. 0.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000 1.000 50.000 51.000 42.000 39.000 0. 38.000 21.000 22.000  
 53.000 54.000 4.000 0. 38.000 1.000 58.000 33.000 50.000 40.000  
 41.000 25.000 0. 38.000 1.000 43.000 13.000 55.000 14.000 26.000  
 15.000 56.000 0.000 35.000 60.000 59.000 0. 38.000 1.000 7.000

16.000 17.000 18.000 34.000 21.000 22.000 53.000 54.000 4.000 0.

NC 0.090 0.090 0.050 0.100 0.300 0. 0. 0. 0. 0.  
 QT 5.000 1620.000 2180.000 2430.000 3630.000 2430.000 0. 0. 0. 0.  
 ET 0. 0. 0. 0. 0. 7.100 1050.000 1370.000 0. 0.

X1 650.000 19.000 1190.000 1210.000 0. 0. 0. 0. 0. 0.  
 GR 130.000 0. 129.000 230.000 128.000 555.000 126.000 585.000 124.000 780.000  
 GR 122.000 950.000 120.900 1085.000 119.200 1140.000 119.900 1190.000 120.300 1192.000  
 GR 116.900 1200.000 120.400 1208.000 121.800 1210.000 121.800 1250.000 122.400 1600.000  
 GR 124.000 1700.000 125.000 1775.000 126.000 1920.000 128.000 2040.000 0. 0.  
 ET 0. 0. 0. 0. 0. 100.200 0. 0. 0. 0.

X1 1040.000 21.000 1034.000 1056.000 990.000 990.000 990.000 0. 0. 0.  
 GR 130.200 0. 132.000 125.000 123.300 450.000 132.000 665.000 130.000 750.000  
 GR 128.000 825.000 128.100 900.000 125.200 950.000 125.200 980.000 132.700 1000.000  
 GR 124.100 1020.000 123.600 1034.000 117.800 1039.000 117.800 1050.000 120.400 1061.000  
 GR 123.700 1066.000 123.900 1100.000 126.000 1150.000 126.000 1335.000 130.000 1440.000  
 GR 134.000 1900.000 0. 0. 0. 0. 0. 0. 0. 0.

X1 1710.000 0. 0. 0. 70.000 70.000 70.000 0. 0. 0.  
 SB 1.250 1.500 3.000 650.000 11.000 1.000 80.000 0. 0. 0.

X1 1770.000 19.000 1034.000 1069.000 60.000 60.000 60.000 0. 0. 0.  
 GR 130.000 0. 132.000 100.000 134.000 310.000 134.000 605.000 132.300 695.000

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GR	130.000	800.000	129.100	900.000	127.800	950.000	125.100	1000.000	124.200	1050.000
GR	118.300	1050.000	124.900	1059.000	122.300	1150.000	123.100	1150.000	125.200	1200.000
GR	126.000	1370.000	128.000	1405.000	130.000	1420.000	130.500	1950.000	0.	0.
X1	1840.000	0.	0.	0.	70.000	70.000	70.000	0.	0.	0.
X1	2300.000	19.000	838.000	882.000	460.000	460.000	460.000	0.	0.	0.
GR	130.000	0.	132.000	140.000	132.000	280.000	130.000	450.000	128.000	470.000
GR	126.000	630.000	124.000	730.000	122.000	770.000	125.800	800.000	124.900	838.000
GR	121.300	842.000	119.200	850.000	121.400	858.000	124.000	862.000	124.000	900.000
GR	123.500	950.000	126.000	1012.000	128.000	1460.000	128.000	1820.000	0.	0.
X1	2920.000	17.000	586.000	614.000	620.000	620.000	620.000	0.	0.	0.
GR	130.800	0.	130.000	260.000	126.000	405.000	125.900	500.000	127.300	586.000
GR	123.000	591.000	120.800	600.000	120.600	609.000	126.700	614.000	126.600	650.000
GR	132.100	683.000	131.700	700.000	130.000	726.000	131.600	810.000	130.000	880.000
GR	129.600	1075.000	130.000	1220.000	0.	0.	0.	0.	0.	0.
EJ	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977

ERROR CORR 01,02  
MODIFICATION - 50,51,52,53  
\*\*\*\*\*

T1 LUMBERTON NC IVEY BRANCH  
T2 FLOOD INSURANCE STUDY  
T3 100-YR Q FLOODWAY RUN

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS 3 WSEL FQ  
0. 6. 0. 0. 0.001500 0. 0. 0. 125.000 0.

J2 PROF IPLIT PRFVS XSECV XSECH FN ALLDC IBW CHNIA ITRACE  
15.000 0. -1.000 5.000 500.000 0. 0. 0. 0. 0.

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HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
ERROR CORR - 01.02  
MODIFICATION - 50,51,52,53  
\*\*\*\*\*

NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

100-YEAR Q NATURAL  
SUMMARY PRINTOUT

SECNO	CWSCL	DIFWSP	DIFWSX	ELMIN	XLCH
650.000	124.04	0.	0.	116.90	0.
650.000	125.07	1.03	0.	116.90	0.
1640.000	126.30	0.	2.26	117.80	990.00
1640.000	127.20	0.90	2.13	117.80	990.00
1710.000	126.83	0.	0.53	117.80	70.00
1710.000	127.79	0.96	0.59	117.80	70.00
1770.000	129.82	0.	2.99	118.30	60.00
* 1770.000	129.56	-0.27	1.76	118.30	60.00
// 1840.000	129.85	0.	0.02	118.30	70.00
1840.000	129.74	-0.11	0.18	118.30	70.00
2300.000	129.96	0.	0.11	119.20	460.00
2300.000	130.74	0.78	1.00	119.20	460.00
2920.000	130.09	0.	0.13	120.80	620.00
2920.000	132.14	2.05	1.41	120.80	620.00

100-YEAR Q NATURAL  
SUMMARY PRINTOUT

SECNO	STCHL	STCHR	SSTA	ENDST	TOPWID
650.000	1190.00	1210.00	775.86	1703.18	927.32
650.000	1190.00	1210.00	1050.00	1370.00	320.00
1640.000	1034.00	1066.00	957.97	1342.91	353.00
1640.000	1034.00	1066.00	1012.79	1100.00	87.21
1710.000	1034.00	1066.00	944.96	1357.08	382.86
1710.000	1034.00	1066.00	1011.40	1100.00	88.60
1770.000	1034.00	1069.00	819.55	1418.68	599.14
* 1770.000	1034.00	1069.00	1001.50	1101.50	100.00
1840.000	1034.00	1069.00	816.93	1418.86	601.93
1840.000	1034.00	1069.00	1001.50	1101.50	100.00
2300.000	838.00	862.00	450.38	1820.00	1369.62
2300.000	838.00	862.00	800.00	900.00	100.00
2920.000	586.00	614.00	231.90	1220.00	790.25
2920.000	586.00	614.00	550.00	650.00	100.00

100-YEAR Q NATURAL  
SUMMARY PRINTOUT

SECHO	CWSEL	KRATIO	K*CHSL	DIFWSP	ELTRD	ELLC	AREA
650.000	124.04	0.	0.	0.	0.	0.	1925.78
650.000	125.07	0.	0.	1.03	0.	0.	1326.33
1640.000	126.36	0.52	0.91	0.	0.	0.	723.77
1640.000	127.20	0.49	0.91	0.90	0.	0.	404.54
1710.000	126.83	1.31	0.	0.	0.	0.	921.87
1710.000	127.79	1.18	0.	0.96	0.	0.	457.12
1770.000	129.82	3.14	8.33	0.	129.00	125.50	2398.17
* 1770.000	129.56	1.40	8.33	-0.27	129.00	125.50	639.77
1840.000	129.85	1.01	0.	0.	0.	0.	2412.33
1840.000	129.74	1.04	0.	-0.11	0.	0.	657.61
2300.000	129.96	1.57	1.96	0.	0.	0.	4749.92
2300.000	130.74	0.99	1.96	0.78	0.	0.	690.94
2920.000	130.09	0.30	2.58	0.	0.	0.	1455.77
2920.000	132.14	0.94	2.58	2.05	0.	0.	641.42



100-YEAR Q NATURAL  
SUMMARY PRINTOUT

SECNO	CVSEL	Q	QLOB	VLOB	QCH	VCH	QRQB	VROB	DEPTH	QLOBZ	QCHZ	QRQBZ
650.000	124.04	2430.00	1285.59	1.32	319.74	3.18	824.67	0.97	7.14	52.91	13.16	33.94
650.000	125.07	2430.00	1286.42	1.86	437.49	3.61	704.08	1.38	8.17	53.02	18.00	28.97
1640.000	126.30	2430.00	95.68	1.78	1461.47	7.24	872.85	1.86	8.50	3.94	60.14	35.92
1640.000	127.20	2430.00	157.57	2.71	1947.38	8.44	325.05	2.81	9.40	6.48	80.14	13.38
1710.000	126.83	2430.00	118.13	1.45	1279.42	5.84	1032.45	1.66	9.03	74.86	52.65	42.49
1710.000	127.79	2430.00	160.71	2.54	1891.06	7.57	358.24	2.63	9.99	67.44	77.82	14.74
1770.000	129.82	2430.00	303.11	0.69	631.68	2.15	1495.21	0.90	11.52	12.47	25.99	61.53
* 1770.000	129.56	2430.00	341.26	2.13	1592.71	5.61	496.03	2.54	11.26	14.04	65.54	20.41
1840.000	129.85	2430.00	304.51	0.68	629.92	2.14	1495.57	0.90	11.55	12.53	25.92	61.55
1840.000	129.74	2430.00	346.24	2.09	1584.18	5.46	499.58	2.48	11.44	14.25	65.19	20.56
2300.000	129.96	2430.00	867.61	0.53	288.87	0.37	1273.52	0.44	10.76	35.70	11.89	52.41
2300.000	130.74	2430.00	448.91	2.19	1316.99	5.85	634.10	2.48	11.54	18.47	55.43	26.09
2920.000	130.09	2430.00	1393.89	1.41	793.30	3.94	242.81	0.92	9.29	57.36	32.65	9.99
2920.000	132.14	2430.00	412.20	2.23	1557.60	6.02	460.20	2.33	11.34	16.96	64.10	18.94

100-YEAR 9 NATURAL  
SUMMARY PRINTOUT

SECNO	CMSEL	VOI	K*XML	K*XNCH	K*XNR	DIK	STCHL	STCHR	GSTA	ENDST	TOPWD
650.000	124.04	0.	90.00	50.00	90.00	626.25	1190.00	1210.00	775.86	1705.18	927.32
650.000	125.07	0.	90.00	50.00	90.00	624.95	1190.00	1210.00	1050.00	1370.00	320.00
1640.000	126.30	30.11	90.00	50.00	90.00	323.87	1034.00	1066.00	957.97	1342.91	353.00
1640.000	127.20	19.67	90.00	50.00	90.00	303.52	1034.00	1066.00	1012.79	1100.00	87.21
1710.000	126.83	31.43	90.00	50.00	90.00	424.15	1034.00	1066.00	944.96	1357.08	382.86
1710.000	127.79	20.36	90.00	50.00	90.00	366.94	1034.00	1066.00	1011.40	1100.00	88.60
1770.000	129.82	33.72	90.00	50.00	90.00	1330.33	1034.00	1069.00	819.55	1418.68	599.14
1770.000	129.56	21.12	90.00	50.00	90.00	499.92	1034.00	1069.00	1001.50	1101.50	100.00
1840.000	129.85	37.58	90.00	50.00	90.00	1340.29	1034.00	1069.00	816.93	1418.86	601.93
1840.000	129.74	22.16	90.00	50.00	90.00	521.17	1034.00	1069.00	1001.50	1101.50	100.00
2300.000	129.96	75.40	90.00	50.00	90.00	2100.04	838.00	862.00	450.38	1820.00	1369.62
2300.000	130.74	29.28	90.00	50.00	90.00	518.44	838.00	862.00	800.00	900.00	100.00
2920.000	130.09	119.56	90.00	50.00	90.00	631.58	586.00	614.00	231.90	1220.00	790.25
2920.000	132.14	38.76	90.00	50.00	90.00	488.11	586.00	614.00	550.00	650.00	100.00

SUMMARY OF ERRORS

CAUTION SECNO= 1770.000 PROFILE= 2 HYDRAULIC JUMP D.S.