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

T1 SALISBURY-ROWAN CO. STREAM 14SAL HOPKINS STREET BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK IQR MINV IDIR SIRT METRIC HVINS Q WSEL EQ
 -1. 2. 0. 0. 0.022000 0.0 0.0 0. 709.300 0.0

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLOC IBW CHNIM TTRACE
 0.0 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000 39.000 40.000 41.000 43.000 42.000 1.000 2.000 25.000 53.000

54.000 25.000 50.000 0.0 201.000 0.0 0.0 0.0 0.0 0.0

J5 LPRNT NUMSEC *****REQUESTED SECTION NUMBERS*****

-10.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

WC	0.055	0.055	0.055	0.100	0.300	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	123.000	289.000	323.000	515.000	323.000	0.0	0.0	0.0	0.0	0.0
BT	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0	0.0

X1	200.000	15.000	1495.000	1501.000	200.000	200.000	200.000	0.0	0.0	0.0
GR	710.500	3000.000	711.300	1100.000	711.300	1200.000	709.200	1300.000	707.400	1400.000
GR	707.700	1495.000	704.200	1495.000	704.300	1498.000	704.700	1499.000	707.300	1501.000
GR	707.200	1600.000	707.300	1700.000	707.300	1600.000	705.600	1900.000	705.900	2000.000
BT	5.000	104.000	213.000	279.000	450.000	279.000	0.0	0.0	0.0	0.0

X1	600.000	16.000	1659.000	1668.000	400.000	400.000	400.000	0.0	-1.500	0.0
GR	722.000	1000.000	722.700	1100.000	722.800	1200.000	721.000	1300.000	719.600	1400.000
GR	717.500	1500.000	716.700	1550.000	716.900	1659.000	712.900	1660.000	712.800	1662.000
GR	713.000	1664.000	716.000	1668.000	716.900	1700.000	718.600	1800.000	718.200	1900.000
GR	721.100	2000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Z1	650.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.500	0.0
WC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	700.000	19.000	1676.500	1679.500	50.000	50.000	50.000	0.0	0.0	0.0
GR	722.500	1000.000	721.700	1100.000	720.900	1200.000	719.900	1300.000	719.000	1400.000
GR	717.900	1500.000	717.500	1550.000	716.500	1616.000	716.700	1673.000	714.100	1676.500
GR	713.000	1677.000	712.600	1678.000	713.000	1679.000	714.100	1679.500	715.800	1684.000
GR	716.700	1716.000	718.400	1816.000	720.000	1910.000	719.300	2000.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	3.000	0.010	7.100	0.0	0.0	0.0

X1	740.000	0.0	0.0	0.0	40.000	40.000	40.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	715.600	716.900	0.0	0.0	0.0	0.0	0.0
BT	16.000	1000.000	722.500	0.0	1100.000	721.700	0.0	1200.000	720.900	0.0
BT	1300.000	719.900	0.0	1400.000	719.000	0.0	1500.000	717.900	0.0	1600.000
BT	717.300	0.0	1676.500	716.900	714.100	1677.000	716.900	715.200	1678.000	716.900
BT	715.600	1679.000	716.900	715.200	1679.500	716.900	714.100	1700.000	716.900	0.0
BT	1800.000	718.300	0.0	1900.000	720.000	0.0	2000.000	719.300	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	790.000	16.000	1659.000	1668.000	50.000	50.000	50.000	0.0	-0.100	0.0
GR	722.800	1000.000	722.700	1100.000	722.800	1200.000	721.000	1300.000	719.600	1400.000
GR	718.500	1500.000	716.700	1600.000	716.900	1659.000	712.900	1660.000	712.800	1662.000
GR	713.000	1664.000	716.000	1668.000	716.900	1700.000	718.600	1800.000	720.200	1900.000
GR	721.100	2000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	840.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
BT	5.000	71.000	150.000	199.000	330.000	199.000	0.0	0.0	0.0	0.0

X1	1300.000	11.000	1162.000	1204.000	460.000	460.000	460.000	0.0	0.0	0.0
GR	743.600	1000.000	741.200	1086.000	739.600	1100.000	730.200	1182.000	721.000	1191.000
GR	721.100	1193.000	721.200	1195.000	729.200	1204.000	735.100	1300.000	741.000	1400.000
GR	742.700	1436.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

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 MODIFICATION = 50,51,52

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

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
* A 200.000	200.00	0.0	0.0	123.00	704.30	706.15	706.15	5.31	1495.53	2000.00	55.38	0.0
200.000	200.00	0.0	0.0	323.00	704.30	706.46	0.0	6.49	1495.43	2000.00	100.09	0.31
* B 600.000	400.00	0.0	0.0	104.00	710.90	713.36	713.36	7.64	1659.41	1667.01	13.61	0.0
* 600.000	400.00	0.0	0.0	279.00	710.90	715.33	715.33	6.16	1570.33	1719.66	92.63	1.98
650.000	50.00	0.0	0.0	104.00	711.80	714.50	0.0	6.69	1659.35	1667.34	15.54	0.0
* 650.000	50.00	0.0	0.0	279.00	711.80	716.30	716.30	5.73	1566.82	1723.38	102.30	1.79
* C 700.000	50.00	0.0	0.0	104.00	712.60	716.22	716.22	6.57	1673.64	1699.04	21.46	0.0
* 700.000	50.00	0.0	0.0	279.00	712.60	717.01	717.01	6.53	1582.40	1734.20	85.77	0.79
D 740.000	40.00	716.90	715.60	104.00	712.60	717.36	0.0	1.40	1559.04	1755.02	147.32	0.0
740.000	40.00	716.90	715.60	279.00	712.60	717.78	0.0	2.16	1515.31	1779.39	241.48	0.42
790.000	50.00	0.0	0.0	104.00	712.70	717.36	0.0	1.78	1557.93	1732.79	128.82	0.0
* 790.000	50.00	0.0	0.0	279.00	712.70	717.77	0.0	3.07	1534.71	1757.38	211.91	0.42
E 840.000	50.00	0.0	0.0	104.00	712.80	717.38	0.0	1.96	1562.38	1727.86	114.55	0.0
840.000	50.00	0.0	0.0	279.00	712.80	717.84	0.0	3.18	1536.64	1755.34	204.24	0.46
* F 1300.000	460.00	0.0	0.0	71.00	721.00	722.90	722.30	6.69	1149.14	1196.92	10.61	0.0
* 1300.000	460.00	0.0	0.0	199.00	721.00	724.30	724.30	6.43	1167.77	1198.49	23.51	1.40

SUMMARY OF ERRORS

- CAUTION SECNO= 200.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 600.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 600.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 600.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 600.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 650.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 650.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 650.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 700.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		100	200	0.20
200,000	0.	706.2	706.5	0.0
600,000	400.	708.1	710.0	*****
650,000	450.	114.5	116.3	*****
700,000	500.	2.9	3.7	0.0
740,000	540.	717.4	717.8	*****
790,000	590.	613.4	613.8	607.8
840,000	640.	*****	*****	*****
1300,000	1100.	722.9	724.3	0.0
WEIGHTED AVG FOR REACH		****	****	****

FHF FOR THE REACH = 005 WITH 0.00 OF THE REACH WITHIN 0.5 FEET
 ZONE FOR THE REACH = A 1

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		100	10	DIFF.			
	0.					SEC.	200,000
1	100.	707.1	0.7	706.4	706.4	005	100.
2	200.	708.9	2.0	706.9	706.6	005	100.
3	300.	710.7	3.3	707.3	706.9	005	100.
	400.					SEC.	600,000
4	400.	712.5	4.6	707.8	707.1	005	50.
	450.					SEC.	650,000
5	500.	714.8	359.3	355.5	636.8	005	0.
	500.					SEC.	700,000
	540.					SEC.	740,000
	590.					SEC.	790,000
6	600.	717.4	260.3	457.0	606.4	005	0.
	640.					SEC.	840,000
7	700.	717.7	333.3	-218.5	489.3	005	0.
8	800.	718.7	1268.6	-542.9	359.4	005	0.
9	900.	719.9	906.2	-186.3	298.8	005	0.
10	1000.	721.1	543.7	177.4	286.7	005	0.
	1100.					SEC.	1300,000

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
 INPUT 20N WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
 OF EACH REACH BY INC NO. FOR EXAMPLE 202 3 10
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.