
HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 SALISBURY-ROWAN CO. STREAM 6-15AL HENDERSON BRANCH
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 TCHECK IUN MINV IDIR SIRT METRIC HVINS Q WSEL FO

-1. 2. 0. 0. 0.008000 0.0 0.0 0.0 642.700 0.0

J2 NPROF IPILOT PREVS XSECV XSECH FM ALLOC IBW CHNIN ITRAGE

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

NC 0.055 0.055 0.035 0.100 0.300 0.0 0.0 0.0 0.0 0.0

GT 5.000 635.000 1104.000 1329.000 1859.000 1329.000 0.0 0.0 0.0 0.0

ET 5.000 0.0 0.0 0.0 0.0 0.0 10.400 0.0 0.0 0.0

X1 1140.000 12.000 1161.000 1210.000 1140.000 1140.000 1140.000 0.0 0.0 0.0

GR 659.300 1000.000 643.800 1069.000 643.000 1100.000 643.700 1181.000 637.800 1185.000

GR 637.700 1191.000 637.900 1197.000 643.300 1210.000 645.200 1300.000 648.000 1400.000

GR 651.700 1500.000 659.300 1601.000 0.0 0.0 0.0 0.0 0.0 0.0

GT 5.000 592.000 1027.000 1237.000 1734.000 1237.000 0.0 0.0 0.0 0.0

X1 2743.000 14.000 1364.000 1364.000 1603.000 1603.000 1603.000 0.0 3.100 0.0

GR 573.100 1000.000 665.600 1100.000 658.500 1196.000 657.300 1200.000 656.500 1300.000

GR 657.600 1364.000 652.500 1379.000 652.400 1375.000 652.700 1379.000 657.500 1384.000

GR 658.200 1460.000 661.200 1500.000 670.900 1600.000 673.100 1627.000 0.0 0.0

X1 2793.000 0.0 0.0 0.0 50.000 50.000 50.000 0.0 0.100 0.0

NC 0.025 0.025 0.025 0.100 0.300 0.0 0.0 0.0 0.0 0.0

X1 2843.000 16.000 1357.000 1365.000 50.000 50.000 50.000 0.0 0.0 0.0

GR 673.100 1000.000 665.300 1100.000 656.800 1175.000 656.700 1200.000 656.700 1255.000

GR 656.700 1286.000 657.400 1350.000 654.000 1357.000 652.200 1357.000 652.200 1365.000

GR 654.000 1365.000 657.300 1370.000 657.500 1389.000 657.300 1400.000 664.200 1500.000

GR 673.100 1583.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

SB 0.900 2.500 2.500 0.0 8.000 0.010 36.000 0.0 0.0 0.0

MADE IN U.S.A.

SALISBURY GOLF COURSE FAIRWAY

X1	3070.000	0.0	0.0	0.0	227.000	227.000	227.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	656.700	0.0	0.0	0.0	0.0	0.0	0.0
BT	12.000	1000.000	673.100	0.0	1100.000	665.300	0.0	1175.000	656.800	0.0
BT	1200.000	656.700	0.0	1300.000	656.900	0.0	1357.000	658.100	656.700	1357.000
BT	658.100	654.000	1,365.000	658.100	656.700	1365.000	658.100	654.000	1400.000	657.300
BT	0.0	1500.000	664.200	0.0	1583.000	673.100	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	3120.000	14.000	1364.000	1384.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	673.100	1000.000	665.600	1100.000	658.500	1166.000	657.300	1200.000	656.500	1300.000
GR	657.600	1364.000	652.500	1370.000	652.400	1375.000	652.700	1379.000	657.500	1384.000
GR	658.200	1460.000	661.600	1500.000	670.900	1600.000	673.100	1627.000	0.0	0.0

X1	3170.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	3220.000	22.000	1257.400	1264.600	50.000	50.000	50.000	0.0	0.0	0.0
GR	673.600	886.000	666.100	986.000	653.000	1052.000	657.800	1086.000	657.000	1186.000
GR	658.100	1250.000	654.000	1257.400	653.500	1258.000	653.100	1259.000	653.000	1260.000
GR	652.900	1261.000	653.000	1262.000	653.100	1263.000	653.500	1264.000	654.200	1264.600
GR	658.000	1270.000	658.700	1346.000	661.500	1383.000	661.700	1400.000	662.000	1446.000
GR	667.600	1500.000	676.200	1592.000	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	7.200	0.010	31.000	0.0	0.0	0.0

PRIVATE DRIVE

X1	3234.000	0.0	0.0	0.0	14.000	14.000	14.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	658.200	659.700	0.0	0.0	0.0	0.0	0.0
BT	19.000	1064.000	664.800	0.0	1100.000	662.700	0.0	1137.000	659.700	0.0
BT	1250.000	659.700	0.0	1257.400	659.700	654.800	1258.000	659.700	656.500	1259.000
BT	659.700	657.500	1260.000	659.700	657.000	1261.000	659.700	658.200	1262.000	659.700
BT	657.000	1263.000	659.700	657.500	1264.000	659.700	656.500	1264.600	659.700	654.800
BT	1300.000	659.700	0.0	1352.000	661.000	0.0	1400.000	661.700	0.0	1446.000
BT	662.000	0.0	1500.000	667.600	0.0	1592.000	676.200	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	3284.000	14.000	1364.000	1384.000	50.000	50.000	50.000	0.0	0.600	0.0
GR	673.100	1000.000	665.600	1100.000	658.500	1166.000	657.300	1200.000	656.500	1300.000
GR	657.600	1364.000	652.500	1370.000	652.400	1375.000	652.700	1379.000	657.500	1384.000
GR	658.200	1460.000	661.200	1500.000	670.900	1600.000	673.100	1627.000	0.0	0.0

X1	3334.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.100	0.0
BT	5.000	506.000	884.000	1070.000	1513.000	1070.000	0.0	0.0	0.0	0.0

X1	3440.000	16.000	1413.000	1434.000	106.000	106.000	106.000	0.0	-3.200	0.0
GR	676.500	1000.000	672.600	1100.000	672.500	1117.000	664.200	1156.000	662.400	1200.000
GR	660.900	1300.000	661.400	1400.000	661.300	1413.000	657.700	1423.000	657.600	1425.000
GR	667.700	1427.000	661.600	1434.000	662.300	1462.000	666.600	1500.000	666.700	1540.000
GR	676.500	1591.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	3490.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.700	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	3540.000	24.000	1425.200	1432.700	50.000	50.000	50.000	0.0	0.0	0.0
GR	660.700	1000.000	673.900	1100.000	673.000	1117.000	671.400	1121.000	663.100	1160.000
GR	661.300	1204.000	659.200	1304.000	660.300	1404.000	660.200	1417.000	659.000	1425.200
GR	656.500	1425.200	656.500	1432.700	659.000	1432.700	660.500	1438.000	661.200	1466.000
GR	664.000	1495.000	664.000	1500.000	665.000	1600.000	666.000	1700.000	667.000	1800.000

MADE IN U.S.A.

GR	668,800	1900,000	674,600	2000,000	682,800	2100,000	683,900	2112,000	0,0	0,0
SB	0,900	1,500	2,500	0,0	7,500	0,010	37,500	0,0	0,0	0,0

CONFEDERATE AVENUE

X1	3613,000	0,0	0,0	0,0	73,000	73,000	73,000	0,0	0,0	0,0
X2	0,0	0,0	1,000	661,500	663,300	0,0	0,0	0,0	0,0	0,0
BT	16,000	1000,000	680,700	0,0	1100,000	673,900	0,0	1200,000	667,800	0,0
BT	1300,000	664,500	0,0	1400,000	663,300	0,0	1425,200	663,600	661,500	1432,700
BT	653,600	661,500	1432,800	653,600	0,0	1500,000	664,000	0,0	1600,000	665,000
BT	0,0	1700,000	666,000	0,0	1800,000	667,000	0,0	1900,000	668,800	0,0
BT	2000,000	674,500	0,0	2100,000	682,800	0,0	2112,000	683,800	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	3663,000	16,000	1413,000	1434,000	50,000	50,000	50,000	0,0	-0,600	0,0
GR	675,500	1000,000	672,600	1100,000	672,500	1117,000	664,200	1156,000	662,400	1200,000
GR	660,900	1300,000	661,400	1400,000	661,300	1413,000	657,700	1423,000	657,600	1425,000
GR	657,700	1427,000	661,600	1434,000	662,300	1462,000	666,600	1500,000	666,700	1540,000
GR	675,500	1591,000	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

X1	3713,000	0,0	0,0	0,0	50,000	50,000	50,000	0,0	0,600	0,0
BT	5,000	446,000	789,000	961,000	1372,000	961,000	0,0	0,0	0,0	0,0

X1	3798,000	13,000	1090,000	1107,000	85,000	85,000	85,000	0,0	-9,500	0,0
GR	690,100	1000,000	675,300	1076,000	674,000	1090,000	668,600	1094,000	668,600	1099,000
GR	668,800	1103,000	672,900	1107,000	672,600	1200,000	673,900	1360,000	677,200	1381,000
GR	677,000	1455,000	682,300	1500,000	690,100	1589,000	0,0	0,0	0,0	0,0

X1	3848,000	0,0	0,0	0,0	50,000	50,000	50,000	0,0	1,500	0,0
NC	0,025	0,025	0,025	0,100	0,300	0,0	0,0	0,0	0,0	0,0

X1	3898,000	22,000	1213,500	1449,000	50,000	50,000	50,000	0,0	0,0	0,0
GR	688,900	1000,000	675,600	1098,000	674,200	1150,000	674,100	1171,000	670,200	1193,000
GR	669,900	1207,000	666,000	1213,500	663,500	1213,500	663,500	1218,500	666,000	1218,500
GR	667,800	1224,000	667,500	1317,000	672,000	1434,000	671,300	1434,000	671,300	1449,000
GR	672,000	1449,000	672,100	1497,000	671,900	1572,000	674,800	1600,000	680,200	1614,000
GR	689,000	1700,000	690,200	1712,000	0,0	0,0	0,0	0,0	0,0	0,0
SB	0,900	1,500	2,500	0,0	20,000	0,010	60,000	0,0	0,0	0,0

X1	3972,000	0,0	0,0	0,0	74,000	74,000	74,000	0,0	0,0	0,0
X2	0,0	0,0	1,000	673,800	0,0	0,0	0,0	0,0	0,0	0,0
BT	18,000	1000,000	688,900	0,0	1098,000	675,600	0,0	1150,000	674,200	0,0
BT	1200,000	673,700	0,0	1213,500	673,600	668,600	1218,500	673,600	668,600	1218,600
BT	673,600	0,0	1300,000	673,900	0,0	1400,000	675,000	0,0	1434,000	675,700
BT	673,800	1449,000	675,300	673,800	1449,100	675,300	0,0	1500,000	675,000	0,0
BT	1500,000	674,700	0,0	1600,000	674,800	0,0	1614,000	680,200	0,0	1700,000
BT	689,000	0,0	1712,000	690,200	0,0	0,0	0,0	0,0	0,0	0,0
NC	0,055	0,055	0,035	0,100	0,300	0,0	0,0	0,0	0,0	0,0

X1	4022,000	13,000	1090,000	1107,000	50,000	50,000	50,000	0,0	-4,500	0,0
GR	690,100	1000,000	675,300	1076,000	674,000	1090,000	668,600	1094,000	668,600	1099,000
GR	668,800	1103,000	672,900	1107,000	672,600	1200,000	673,900	1360,000	677,200	1381,000
GR	677,000	1455,000	682,300	1500,000	690,100	1589,000	0,0	0,0	0,0	0,0

X1	4072,000	0,0	0,0	0,0	50,000	50,000	50,000	0,0	0,600	0,0
BT	5,000	341,000	615,000	758,000	1102,000	758,000	0,0	0,0	0,0	0,0

X1	5595,000	14,000	1,95,000	1213,000	1623,000	1623,000	1623,000	0,0	-3,300	0,0
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MADE IN U.S.A.

GR	706,100	1000,000	701,900	1011,000	699,000	1066,000	698,100	1100,000	689,500	1145,000
GR	688,100	1195,000	684,900	1200,000	684,700	1205,000	685,000	1210,000	689,000	1213,000
GR	688,800	1268,000	690,700	1300,000	702,500	1400,000	706,100	1435,000	0,0	0,0

X1	5745,000	0,0	0,0	0,0	50,000	50,000	50,000	0,0	0,500	0,0
NC	0,025	0,025	0,025	0,100	0,300	0,0	0,0	0,0	0,0	0,0

X1	5795,000	27,000	1518,500	1532,500	50,000	50,000	50,000	0,0	0,0	0,0
GR	706,100	1000,000	705,600	1100,000	704,900	1200,000	704,100	1250,000	702,200	1300,000
GR	697,400	1400,000	695,800	1435,000	688,000	1470,000	686,800	1510,500	685,700	1519,000
GR	685,300	1520,000	685,700	1521,000	686,800	1521,500	685,700	1527,500	683,200	1527,500
GR	683,200	1532,500	685,700	1532,500	687,500	1538,000	687,300	1593,000	689,000	1620,000
GR	689,000	1700,000	689,000	1800,000	690,500	1900,000	694,500	2000,000	700,000	2100,000
GR	705,800	2200,000	706,100	2204,000	0,0	0,0	0,0	0,0	0,0	0,0
SS	0,900	1,500	2,500	0,0	8,000	0,010	32,100	0,0	0,0	0,0

X1	5875,000	0,0	0,0	0,0	90,000	90,000	80,000	0,0	0,0	0,0
X2	0,0	0,0	1,000	688,300	0,0	0,0	0,0	0,0	0,0	0,0
BT	22,000	1000,000	705,100	0,0	1100,000	705,600	0,0	1200,000	704,900	0,0
BT	1300,000	702,200	0,0	1400,000	697,400	0,0	1500,000	692,700	0,0	1518,500
BT	691,900	686,900	1519,000	691,900	687,900	1520,000	691,900	688,300	1521,000	691,900
BT	687,900	1521,500	691,900	686,800	1527,500	691,600	688,200	1532,500	691,600	688,200
BT	1532,600	691,600	0,0	1600,000	689,200	0,0	1700,000	689,200	0,0	1800,000
BT	682,200	0,0	1900,000	690,500	0,0	2000,000	694,500	0,0	2100,000	700,000
BT	0,0	2200,000	705,800	0,0	2204,000	706,100	0,0	0,0	0,0	0,0
NC	0,035	0,035	0,035	0,100	0,300	0,0	0,0	0,0	0,0	0,0

X1	5925,000	14,000	1195,000	1213,000	50,000	50,000	50,000	0,0	-1,000	0,0
GR	706,100	1000,000	701,900	1011,000	699,000	1066,000	698,100	1100,000	689,500	1145,000
GR	688,100	1195,000	684,900	1200,000	684,700	1205,000	685,000	1210,000	689,000	1213,000
GR	688,800	1268,000	690,700	1300,000	702,500	1400,000	706,100	1435,000	0,0	0,0

X1	6025,000	0,0	0,0	0,0	100,000	100,000	100,000	0,0	1,000	0,0
QT	5,000	259,000	479,000	597,000	888,000	597,000	0,0	0,0	0,0	0,0

X1	6315,000	12,000	1145,000	1160,000	290,000	290,000	290,000	0,0	-2,500	0,0
GR	713,400	1000,000	709,700	1030,000	699,000	1073,000	696,500	1100,000	695,400	1145,000
GR	689,900	1148,000	689,700	1151,000	690,000	1154,000	694,500	1160,000	699,000	1200,000
GR	708,700	1300,000	713,400	1341,000	0,0	0,0	0,0	0,0	0,0	0,0

X1	6365,000	0,0	0,0	0,0	50,000	50,000	50,000	0,0	0,300	0,0
NC	0,025	0,025	0,025	0,100	0,300	0,0	0,0	0,0	0,0	0,0

X1	6415,000	18,000	1178,800	1183,300	50,000	50,000	50,000	0,0	0,0	0,0
GR	713,400	1000,000	708,600	1050,000	706,500	1070,000	698,400	1103,000	695,900	1130,000
GR	694,800	1175,000	691,000	1178,800	689,100	1178,800	689,100	1183,300	691,000	1183,300
GR	693,000	1190,000	697,400	1221,000	697,000	1300,000	698,100	1400,000	698,600	1435,000
GR	699,400	1500,000	709,500	1600,000	713,400	1640,000	0,0	0,0	0,0	0,0
SS	0,900	1,500	2,500	0,0	4,500	0,010	20,300	0,0	0,0	0,0

X1	6505,000	0,0	0,0	0,0	91,000	91,000	91,000	0,0	0,0	0,0
X2	0,0	0,0	1,000	693,600	697,000	0,0	0,0	0,0	0,0	0,0
BT	14,000	1000,000	713,400	0,0	1050,000	708,600	0,0	1100,000	703,300	0,0
BT	1150,000	692,600	0,0	1178,800	698,200	693,600	1183,300	698,200	693,600	1183,400
BT	698,200	0,0	1200,000	697,600	0,0	1300,000	697,000	0,0	1400,000	698,100
BT	0,0	1485,000	698,600	0,0	1500,000	699,400	0,0	1600,000	709,500	0,0
BT	1640,000	713,400	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

MADE IN U.S.A.

NC 0,055 0,055 0,035 0,100 0,300 0,0 0,0 0,0 0,0 0,0

X1	6456,000	12,000	1145,000	1160,000	50,000	50,000	50,000	0,0	-0,300	0,0
SR	713,400	1000,000	709,700	1030,000	699,000	1073,000	696,500	1100,000	695,400	1145,000
GR	689,900	1148,000	689,700	1151,000	690,000	1154,000	694,500	1160,000	699,000	1200,000
GR	708,700	1300,000	713,400	1341,000	0,0	0,0	0,0	0,0	0,0	0,0

X1	6506,000	0,0	0,0	0,0	50,000	50,000	50,000	0,0	0,300	0,0
EJ	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.

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 60, 61, 62

T1 SALISBURY-ROWAN CO. STREAM 6-1SAL
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INC	MINV	IDIR	STRT	METRIC	IVINS	Q	WSEL	FO
	-10.	4.	0.	0.	0.006000	0.0	0.0	0.	645.700	0.0
J2	NPROF	IPLOT	PREVS	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

MADE IN U.S.A.

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 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

037.7 637.7
 637.7

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
A 1140.000	1140.00	0.0	0.0	635.00	637.70	642.24	0.0	7.65	1181.99	1207.45	83.00	0.0
* 1140.000	1140.00	0.0	0.0	1329.00	637.70	644.20	644.20	8.23	1067.20	1252.86	251.83	1.96
* B 2743.000	1603.00	0.0	0.0	592.00	649.30	654.37	654.37	6.68	1195.06	1383.97	156.73	0.0
* B 2743.000	1603.00	0.0	0.0	1237.00	649.30	655.05	655.05	8.25	1175.77	1455.15	314.78	0.68
2793.000	50.00	0.0	0.0	592.00	649.40	654.92	0.0	4.76	1182.76	1428.33	249.98	0.0
2793.000	50.00	0.0	0.0	1237.00	649.40	655.69	0.0	5.66	1164.26	1466.49	471.02	0.78
* 2843.000	50.00	0.0	0.0	592.00	652.20	657.47	657.47	6.47	1169.05	1402.53	180.18	0.0
* 2843.000	50.00	0.0	0.0	1237.00	652.20	657.89	657.89	8.49	1165.37	1408.58	279.52	0.42
3070.000	227.00	656.70	656.70	592.00	652.20	657.85	0.0	4.23	1165.71	1408.02	270.15	0.0
3070.000	227.00	656.70	656.70	1237.00	652.20	658.48	0.0	5.03	1160.12	1417.20	428.30	0.63
3120.000	50.00	0.0	0.0	592.00	652.40	657.81	0.0	5.15	1185.59	1417.50	226.17	0.0
3120.000	50.00	0.0	0.0	1237.00	652.40	658.42	0.0	6.76	1168.11	1462.66	392.92	0.61
3170.000	50.00	0.0	0.0	592.00	652.50	657.99	0.0	4.81	1183.18	1426.75	246.42	0.0
3170.000	50.00	0.0	0.0	1237.00	652.50	658.72	0.0	5.92	1164.89	1464.94	450.57	0.73
* 3220.000	50.00	0.0	0.0	592.00	652.90	658.16	658.16	6.97	1075.66	1287.87	176.60	0.0
* 3220.000	50.00	0.0	0.0	1237.00	652.90	658.19	0.0	7.22	1057.25	1347.52	342.87	0.66
3234.000	14.00	659.70	658.20	592.00	652.90	660.57	0.0	1.04	1037.31	1370.84	896.21	0.0
3234.000	14.00	659.70	658.20	1237.00	652.90	661.42	0.0	1.53	1029.38	1382.12	1189.22	0.85
3284.000	50.00	0.0	0.0	592.00	653.00	660.57	0.0	1.37	1152.32	1483.63	878.08	0.0
3284.000	50.00	0.0	0.0	1237.00	653.00	661.42	0.0	2.08	1144.40	1494.99	1168.67	0.85
B 3334.000	50.00	0.0	0.0	592.00	653.10	660.58	0.0	1.43	1153.21	1482.35	846.40	0.0
3334.000	50.00	0.0	0.0	1237.00	653.10	661.43	0.0	2.15	1145.26	1493.75	1136.24	0.86
3440.000	106.00	0.0	0.0	506.00	654.40	660.59	0.0	1.47	1166.00	1475.18	691.38	0.0
3440.000	106.00	0.0	0.0	1070.00	654.40	661.46	0.0	2.14	1153.84	1482.86	970.73	0.87
C 3490.000	50.00	0.0	0.0	506.00	655.10	660.59	0.0	2.16	1182.87	1469.08	485.92	0.0
3490.000	50.00	0.0	0.0	1070.00	655.10	661.47	0.0	2.85	1161.45	1476.82	749.55	0.87

MADE IN U.S.A.

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CMSEL	CRISW	VCH	SSTA	ENDST	AREA	DIFWSP
* C 3540.000	50.00	0.0	0.0	506.00	656.50	660.74	660.74	6.23	1241.03	1447.77	153.30	0.0
3540.000	50.00	0.0	0.0	1070.00	656.50	661.40	0.0	5.83	1201.68	1468.06	310.65	0.65
D 3613.000	73.00	663.30	661.50	506.00	656.50	660.74	0.0	6.2	1241.00	1447.79	153.40	0.0
3613.000	73.00	663.30	661.50	1070.00	656.50	664.06	0.0	0.84	1151.70	1586.67	1451.30	4.11
* 3663.000	50.00	0.0	0.0	506.00	657.00	661.22	661.22	6.31	1238.87	1442.68	156.75	0.0
3663.000	50.00	0.0	0.0	1070.00	657.00	664.86	0.0	1.64	1150.10	1489.89	1236.73	3.64
* 3713.000	50.00	0.0	0.0	506.00	657.60	661.84	661.84	6.19	1237.58	1443.45	160.70	0.0
3713.000	50.00	0.0	0.0	1070.00	657.60	664.86	0.0	1.99	1152.90	1434.62	1036.55	3.02
* E 3798.000	85.00	0.0	0.0	446.00	659.10	663.84	663.84	5.70	1090.49	1291.61	149.99	0.0
3798.000	85.00	0.0	0.0	961.00	659.10	664.75	0.0	5.64	1087.28	1362.25	376.93	0.91
* 3848.000	50.00	0.0	0.0	446.00	660.60	665.31	665.31	5.89	1090.51	1287.11	142.70	0.0
* 3848.000	50.00	0.0	0.0	961.00	660.60	665.91	665.91	7.52	1090.06	1360.08	284.29	0.60
* F 3898.000	50.00	0.0	0.0	446.00	663.50	668.17	668.17	4.89	1208.64	1334.37	89.61	0.0
* 3898.000	50.00	0.0	0.0	961.00	663.50	668.70	668.70	5.94	1207.44	1348.31	161.07	0.54
G 3972.000	74.00	673.60	673.80	446.00	663.50	668.17	0.0	4.89	1208.64	1334.38	89.64	0.0
3972.000	74.00	673.60	673.80	961.00	663.50	668.70	0.0	5.94	1207.44	1348.33	161.14	0.54
* 4022.000	50.00	0.0	0.0	446.00	664.10	668.77	668.77	6.08	1090.54	1282.51	135.45	0.0
* 4022.000	50.00	0.0	0.0	961.00	664.10	669.45	669.45	7.28	1090.04	1360.31	294.11	0.68
* H 4072.000	50.00	0.0	0.0	446.00	664.70	669.37	669.37	6.09	1090.54	1282.30	135.12	0.0
* 4072.000	50.00	0.0	0.0	961.00	664.70	670.01	670.01	7.51	1090.06	1360.09	284.82	0.65
* I 5695.000	1623.00	0.0	0.0	341.00	681.40	684.48	684.48	8.76	1195.50	1212.08	38.91	0.0
* 5695.000	1623.00	0.0	0.0	758.00	681.40	686.52	686.52	7.33	1143.35	1285.12	185.13	2.04
* 5745.000	50.00	0.0	0.0	341.00	681.90	685.52	0.0	7.06	1187.02	1212.49	49.13	0.0
* 5745.000	50.00	0.0	0.0	758.00	681.90	686.94	686.94	7.69	1143.75	1283.83	174.36	1.42
* J 5795.000	50.00	0.0	0.0	341.00	683.20	687.80	687.80	5.66	1478.00	1600.98	89.52	0.0
* 5795.000	50.00	0.0	0.0	758.00	683.20	688.28	688.28	7.19	1468.73	1608.60	153.60	0.48
K 5875.000	80.00	689.20	688.30	341.00	683.20	687.80	0.0	5.66	1477.97	1600.99	89.61	0.0
5875.000	80.00	689.20	688.30	758.00	683.20	690.05	0.0	1.65	1460.79	1870.13	650.52	2.25
5925.000	50.00	0.0	0.0	341.00	683.70	687.93	686.78	5.57	1165.39	1270.18	73.69	0.0
5925.000	50.00	0.0	0.0	758.00	683.70	689.99	0.0	3.91	1137.17	1302.48	366.82	2.06
L 6025.000	100.00	0.0	0.0	341.00	684.70	688.30	0.0	7.12	1187.85	1212.47	48.55	0.0
6025.000	100.00	0.0	0.0	758.00	684.70	689.91	0.0	6.88	1142.80	1286.87	200.02	1.62
M 6315.000	290.00	0.0	0.0	259.00	687.20	691.07	0.0	7.47	1146.00	1158.76	34.66	0.0
* 6315.000	290.00	0.0	0.0	597.00	687.20	692.56	692.56	10.71	1145.18	1165.00	56.98	1.49
6365.000	50.00	0.0	0.0	259.00	687.50	691.76	0.0	6.50	1145.78	1159.29	39.87	0.0
6365.000	50.00	0.0	0.0	597.00	687.50	694.02	692.89	7.65	1111.51	1175.28	99.72	2.26
* 6415.000	50.00	0.0	0.0	259.00	687.10	693.55	693.55	9.75	1176.25	1189.41	31.09	0.0
* 6415.000	50.00	0.0	0.0	557.00	687.10	695.74	695.74	8.69	1136.64	1206.63	97.17	2.18

MADE IN U.S.A.

SECNO	XLCH	ELTBD	ELIC	G	ELMIN	CMSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
6506.000	91.00	697.00	693.60	259.00	689.10	697.16	0.0	1.68	1116.42	1314.28	226.27	0.0
6506.000	91.00	697.00	693.60	597.00	689.10	698.23	0.0	1.99	1104.07	1421.62	490.71	1.07
6556.000	50.00	0.0	0.0	259.00	689.70	697.15	0.0	2.10	1089.78	1186.19	202.04	0.0
6556.000	50.00	0.0	0.0	597.00	689.70	698.18	0.0	3.36	1078.63	1195.37	312.13	1.03
6606.000	50.00	0.0	0.0	259.00	689.70	697.15	0.0	2.34	1092.91	1183.61	174.92	0.0
6606.000	50.00	0.0	0.0	597.00	689.70	698.20	0.0	3.69	1091.66	1192.88	280.14	1.04

SUMMARY OF ERRORS

- CAUTION SECNO= 1140.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 2743.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 2743.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 2743.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 2743.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 2843.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 2843.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 2843.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 2843.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 2843.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 2843.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 3220.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3220.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3220.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 3540.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3540.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3540.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 3663.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3663.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3663.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 3713.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3713.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3713.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 3798.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3798.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3798.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 3848.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3848.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3848.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 3848.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3848.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3848.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO= 3898.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
- CAUTION SECNO= 3898.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO= 3898.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

MADE IN U.S.A.

CAUTION SECNO= 3898.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 3898.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 3898.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 4022.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4022.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 4022.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4022.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 4022.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 4072.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4072.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 4072.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 4072.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 4072.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

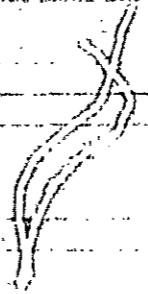
CAUTION SECNO= 5695.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 5695.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 5695.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 5695.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 5745.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 5745.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 5745.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 5795.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 5795.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO= 5795.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 5795.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 5795.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 6315.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 6315.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 6315.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 6415.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 6415.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO= 6415.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
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CAUTION SECNO= 6415.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL



FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10'	20'	30.2'
1140.000	0.	642.2	644.2	0.0
2743.000	1603.	646.7	647.4	****
2753.000	1653.	****	****	****
2843.000	1703.	3.1	3.5	0.0
3070.000	1930.	657.8	658.5	****
3120.000	1980.	65.8	66.4	57.4
3170.000	2030.	****	****	****
3220.000	2080.	658.2	658.8	0.0
3234.000	2094.	654.1	655.0	****
3284.000	2144.	****	****	****
3334.000	2194.	2.7	3.6	****
3440.000	2300.	660.6	661.5	0.0
3490.000	2350.	68.6	69.5	60.4
3540.000	2400.	****	****	****
3613.000	2473.	660.7	664.9	0.0
3663.000	2523.	656.4	660.0	****
3713.000	2573.	****	****	****
3790.000	2650.	5.7	6.6	0.0
3840.000	2708.	665.3	665.9	11.0
3899.000	2758.	76.2	76.7	60.9
3972.000	2832.	****	****	****
4022.000	2882.	668.0	669.4	0.0
4072.000	2932.	668.0	669.6	****
5695.000	4555.	****	****	****
5745.000	4605.	24.9	26.4	****
5795.000	4655.	687.8	689.3	0.0
5875.000	4735.	181.0	184.1	148.4
5925.000	4785.	****	****	****
6025.000	4885.	688.3	689.9	0.0
6315.000	5175.	688.9	690.4	****
6365.000	5225.	****	****	****
6415.000	5275.	32.0	35.0	0.0
6506.000	5366.	697.2	699.2	11.0
6456.000	5416.	191.1	192.2	150.5
6506.000	5466.	****	****	****

WEIGHTED AVG FOR REACH **** **** ****

FHF FOR THE REACH = 200 WITH 0.00 OF THE REACH WITHIN 3.0 FEET ZONE FOR THE REACH = 430

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

MADE IN U.S.A.

MADE IN U.S.A.

NO.	LENGTH	10C	1C	DIFF.	AVG.	FHF	WITHIN
	0.					SEC. 1140,000	
1	100.	642.6	0.2	642.4	642.4	005	100.
2	200.	643.4	0.7	642.7	642.5	005	100.
3	300.	644.1	1.2	642.9	642.7	005	100.
4	400.	644.9	1.7	643.2	642.8	005	100.
5	500.	645.6	2.1	643.5	642.9	005	60.
6	600.	646.4	2.6	643.8	643.1	005	67.
7	700.	647.2	3.1	644.1	643.2	005	43.
8	800.	647.9	3.6	644.3	643.4	005	50.
9	900.	648.7	4.1	644.6	643.5	005	33.
10	1000.	649.4	4.5	644.9	643.6	005	40.
11	1100.	650.2	5.0	645.2	643.8	005	27.
12	1200.	650.9	5.5	645.5	643.9	005	33.
13	1300.	651.7	6.0	645.7	644.1	005	23.
14	1400.	652.5	6.4	646.0	644.2	005	29.
15	1500.	653.2	6.9	646.3	644.3	005	20.
16	1600.	654.0	7.4	646.6	644.5	005	25.
	1603.					SEC. 2743,000	
	1653.					SEC. 2793,000	
17	1700.	656.1	1761.3	*****	541.6	005	0.
	1703.					SEC. 2843,000	
18	1800.	657.5	577.2	80.3	515.9	005	0.
19	1900.	657.7	230.6	427.1	511.3	005	0.
	1930.					SEC. 3070,000	
	1980.					SEC. 3120,000	
20	2000.	657.8	759.3	-101.4	480.6	005	0.
	2030.					SEC. 3170,000	
	2080.					SEC. 3220,000	
	2094.					SEC. 3234,000	
21	2100.	660.6	190.3	470.3	480.1	005	0.
	2144.					SEC. 3284,000	
	2194.					SEC. 3334,000	
22	2200.	660.6	639.2	21.3	459.3	005	0.
	2300.					SEC. 3440,000	
23	2300.	660.6	310.3	350.3	454.5	005	0.
	2350.					SEC. 3490,000	
24	2400.	660.7	708.7	-48.1	433.6	005	0.
	2400.					SEC. 3540,000	
	2473.					SEC. 3613,000	
25	2500.	660.9	1.3	650.6	442.6	005	0.
	2523.					SEC. 3663,000	
	2573.					SEC. 3713,000	
26	2600.	662.2	2813.1	*****	342.9	005	0.
	2658.					SEC. 3798,000	
27	2700.	663.8	1255.8	-592.0	308.3	005	0.
	2708.					SEC. 3848,000	
	2758.					SEC. 3898,000	
28	2800.	668.2	813.0	-144.9	292.1	005	0.
	2832.					SEC. 3972,000	
	2882.					SEC. 4022,000	
29	2900.	668.9	0.2	668.6	305.1	005	0.
	2932.					SEC. 4072,000	
30	3000.	669.5	70.7	598.7	314.0	005	0.
31	3100.	670.5	243.7	426.3	318.5	005	0.
32	3200.	671.4	449.0	222.4	315.5	005	0.
33	3300.	672.3	654.3	18.0	306.4	005	0.
34	3400.	673.3	859.7	-186.4	291.9	005	0.
35	3500.	674.2	1065.0	-320.8	272.4	005	0.
36	3600.	675.1	1270.4	-595.2	248.3	005	0.
37	3700.	676.1	1475.7	-759.5	220.0	005	0.
38	3800.	677.0	1681.0	*****	187.8	005	0.
39	3900.	677.9	1886.4	*****	152.0	005	0.
40	4000.	678.8	2091.7	*****	112.9	005	0.
41	4100.	679.8	2297.0	*****	70.7	005	0.

42	4200.	680.7	2502.4	*****	25.6	005	0.
43	4300.	681.6	2707.7	*****	-22.1	200	0.
44	4400.	682.6	2913.1	*****	-72.3	200	0.
45	4500.	683.5	3118.4	*****	*****	200	0.
	4555.					SEC, 5695.000	
46	4600.	684.7	2074.5	*****	*****	200	0.
	4605.					SEC, 5745.000	
	4655.					SEC, 5795.000	
47	4700.	687.9	142.3	545.9	*****	200	0.
	4735.					SEC, 5875.000	
	4785.					SEC, 5925.000	
48	4800.	688.0	1364.5	-676.6	*****	200	0.
	4885.					SEC, 6025.000	
49	4900.	688.2	627.0	61.2	*****	200	2.
50	5000.	688.9	0.5	688.4	*****	200	0.
51	5100.	689.9	1.2	688.6	*****	200	0.
	5175.					SEC, 6315.000	
52	5200.	690.9	886.3	-195.5	*****	200	0.
	5225.					SEC, 6365.000	
	5275.					SEC, 6415.000	
53	5300.	694.0	570.0	124.1	*****	200	0.
	5366.					SEC, 6506.000	
54	5400.	695.9	411.7	284.2	*****	200	2.
	5416.					SEC, 6456.000	
	5466.					SEC, 6506.000	

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 4 54
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR # 01

MODIFICATION 50,51,52

EJ

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