



//RMAKC1 JOB RTI,A25.P03078,KEZIAH,M=1,T=2,P=100,PRTY=0

\*\*\*PROCLIB=RTI.MG.PROCLT\*\*

// EXEC HEC2

XXG EXEC PGM=HEC2,R=500K	00000010
XXSTEPLIB DD DSN=RTI,A25.P03078.JCW.LIB.LOAD,DISP=SHR	00000020
XXFT03F001 DD SYSOUT=A	00000030
XXFT01F001 DD DDNAME=SYSIN	00000040
XXFT91F001 DD DSN=8191,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000050
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000060
XXFT92F001 DD DSN=8192,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000070
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000080
XXFT93F001 DD DSN=8193,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000090
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000100
XXFT94F001 DD DSN=8194,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000110
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000120
XXFT95F001 DD DSN=8195,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000130
XX DCB=(BUFNO=1,RECFM=VRS,LRECL=1000,BLKSIZE=6400)	00000140
XXFT96F001 DD DSN=8196,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000150
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000160

//SYSIN DD \*

//

IEF236I ALLOC. FOR RMAKC1 G

IEF237I 177 ALLOCATED TO STEPLIB

IEF237I 562 ALLOCATED TO FT03F001

IEF237I 503 ALLOCATED TO FT01F001

IEF237I 15C ALLOCATED TO FT91F001

IEF237I 15C ALLOCATED TO FT92F001

IEF237I 15C ALLOCATED TO FT93F001

IEF237I 15C ALLOCATED TO FT94F001

IEF237I 15C ALLOCATED TO FT95F001

IEF237I 15C ALLOCATED TO FT96F001

IEF142I - STEP WAS EXECUTED - COND CODE 0000

IEF285I RTI,A25.P03078.JCW.LIB.LOAD KEPT

IEF285I VOL SER NOS= RTI444.

IEF285I SYS77279.T185034.RV001.RMAKC1.191 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T185034.RV001.RMAKC1.192 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T185034.RV001.RMAKC1.193 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T185034.RV001.RMAKC1.194 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T185034.RV001.RMAKC1.195 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T185034.RV001.RMAKC1.196 DELETED

IEF285I VOL SER NOS= SPARE7.

G CORE=500K TIME=00:14.1 UR=593 RD/WR=0:00.0 RC=0

S USED=234K CPU=0:04.2 DISK=431 REWD=0:00.0

G I/O=0:09.9 TAPE=0 FL SR=0:00.0

RMAKC1 TIME=00:14.1

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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T1 CHINA GROVE-ROWAN CO. BASIN A STRM 9-1CG  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES REG JOB NO. 6918  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK I00 HINV IDIR STRT METRIC HVINS Q WSEL FN  
 -1. 2. 0. 0. 0.036000 0.0 0.0 0. 694.100 0.0

J2 NPROF IPILOT PRFVS XSECV XSECH FN ALLDC IBW GRNIM ITRACE  
 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 26.000 53.000

54.000 25.000 50.000 0.0 201.000 0.0 0.0 0.0 0.0 0.0

J5 LPRINT 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 0.100 0.100 0.000 0.100 0.300 0.0 0.0 0.0 0.0 0.0  
 QT 5.000 329.000 620.000 774.000 1153.000 774.000 0.0 0.0 0.0 0.0  
 ET 5.000 0.0 0.0 0.0 0.0 -10.400 0.0 0.0 0.0 0.0

X1 625.000 13.000 1450.000 1472.000 625.000 625.000 625.000 0.0 0.0 0.0  
 GR 675.700 1000.000 694.100 1100.000 693.500 1200.000 695.600 1300.000 695.000 1400.000  
 GP 695.800 1450.000 689.200 1458.000 689.100 1463.000 689.200 1468.000 692.100 1472.000  
 GR 676.800 1500.000 703.400 1600.000 711.700 1660.000 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  
 QT 5.000 226.000 426.000 536.000 807.000 536.000 0.0 0.0 0.0 0.0

X1 4125.000 9.000 1100.000 1120.000 3500.000 3500.000 3500.000 0.0 0.0 0.0  
 GR 761.300 1000.000 745.500 1100.000 738.900 1102.000 738.700 1105.000 738.900 1108.000  
 GR 742.600 1120.000 742.800 1200.000 754.900 1300.000 761.300 1330.000 0.0 0.0

X1 4175.000 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 4225.000 19.000 1787.500 1792.500 50.000 50.000 50.000 0.0 0.0 0.0  
 GR 779.200 1000.000 774.700 1100.000 770.500 1200.000 766.700 1300.000 763.400 1400.000  
 GR 761.300 1500.000 760.700 1600.000 760.600 1697.000 746.400 1785.000 743.500 1787.500  
 GR 739.600 1787.500 739.600 1792.500 743.500 1792.500 743.500 1805.000 743.700 1885.000  
 GR 755.800 1985.000 762.200 2015.000 775.100 2100.000 779.300 2200.000 0.0 0.0  
 SB 0.900 1.500 2.500 0.0 5.000 0.010 27.500 0.0 0.0 0.0

MADE IN U.S.A.

X1	4415.000	0.0	0.0	0.0	190.000	190.000	190.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	745.000	760.500	0.0	0.0	0.0	0.0	0.0
BT	15.000	1000.000	779.200	0.0	1100.000	774.800	0.0	1200.000	770.500	0.0
BT	1300.000	766.700	0.0	1400.000	763.400	0.0	1500.000	761.300	0.0	1600.000
BT	760.700	0.0	1700.000	760.500	0.0	1787.500	763.100	745.000	1792.500	763.100
BT	745.000	1800.000	763.000	0.0	1900.000	766.700	0.0	2000.000	771.000	0.0
BT	2100.000	775.100	0.0	2200.000	779.300	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	4465.000	9.000	1100.000	1120.000	50.000	50.000	50.000	0.0	0.900	0.0
GR	761.300	1000.000	745.500	1100.000	738.900	1102.000	738.700	1105.000	738.900	1108.000
GR	742.600	1120.000	742.800	1200.000	754.900	1300.000	761.300	1330.000	0.0	0.0

X1	4515.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.400	0.0
BT	5.000	161.000	312.000	397.000	644.000	397.000	0.0	0.0	0.0	0.0

X1	4665.000	9.000	1161.000	1166.000	150.000	150.000	150.000	0.0	-7.910	0.0
GR	772.700	1000.000	762.100	1100.000	757.600	1161.000	755.900	1162.000	755.800	1163.000
GR	755.900	1164.000	757.900	1166.000	761.300	1200.000	772.700	1240.000	0.0	0.0

X1	4715.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	2.450	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	4765.000	16.000	1131.500	1135.600	50.000	50.000	50.000	0.0	0.0	0.0
GR	769.600	970.000	759.000	1070.000	754.500	1131.000	754.200	1131.500	753.100	1132.000
GR	752.700	1133.000	753.100	1134.000	754.200	1135.600	754.200	1148.000	759.200	1170.000
GR	759.200	1173.000	758.300	1200.000	757.700	1300.000	759.000	1400.000	762.200	1500.000
GR	764.900	1585.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	3.000	0.010	7.070	0.0	0.0	0.0

X1	4852.000	0.0	0.0	0.0	87.000	87.000	87.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	755.700	757.700	0.0	0.0	0.0	0.0	0.0
BT	13.000	970.000	769.600	0.0	1000.000	766.500	0.0	1100.000	761.700	0.0
BT	1131.500	760.400	754.200	1132.000	760.400	755.300	1133.000	760.400	755.700	1134.000
BT	760.400	755.300	1135.600	760.400	754.200	1200.000	758.300	0.0	1300.000	757.700
BT	0.0	1400.000	759.000	0.0	1500.000	762.200	0.0	1585.000	764.900	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	4902.000	9.000	1161.000	1166.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	772.700	1000.000	762.100	1100.000	757.600	1161.000	755.900	1162.000	755.800	1163.000
GR	755.900	1164.000	757.900	1166.000	761.300	1200.000	772.700	1240.000	0.0	0.0

X1	4952.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	3.020	0.0
BT	5.000	129.000	255.000	329.000	517.000	329.000	0.0	0.0	0.0	0.0

X1	5470.000	10.000	1346.000	1351.000	518.000	518.000	518.000	0.0	0.0	0.0
GR	769.000	1000.000	763.600	1100.000	778.100	1200.000	773.700	1300.000	765.100	1346.000
GR	763.800	1348.000	765.100	1351.000	776.500	1370.000	779.600	1400.000	789.000	1450.000
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.

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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T1 CHINA GROVE-ROWAN CO. BASIN A STRM 9-1CG  
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSLL	FO
	-10.	3.	0.	0.	0.036000	0.0	0.0	0.	695.100	0.0
J2	NPROF	IPLT	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

MADE IN U.S.A.

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 CHINA GROVE-ROWAN CO. BASIN A STRM 9-1C6  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.036000	0.0	0.0	0.	697.100	0.0
J2	NPROF	IPLDT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MADE IN U.S.A.

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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T1 CHINA GROVE-ROWAN CO BASIN A STRM 9-1CG  
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.036000	0.0	0.0	0.	698.100	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHWIN	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.

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

MADE IN U.S.A.

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP	
	625.000	625.00	0.0	0.0	329.00	689.10	693.00	0.0	6.54	1454.00	1470.20	50.31	0.0
* A	625.000	625.00	0.0	0.0	620.00	689.10	694.39	694.39	6.56	1081.58	1471.01	155.68	1.39
*	625.000	625.00	0.0	0.0	774.00	689.10	694.65	694.65	6.68	1065.87	1471.16	204.35	0.25
*	625.000	625.00	0.0	0.0	1153.00	689.10	695.02	695.02	7.35	1042.51	1471.37	289.78	0.37
	4125.000	3500.00	0.0	0.0	226.00	738.70	742.41	741.54	5.19	1100.94	1119.39	43.55	0.0
B	4125.000	3500.00	0.0	0.0	426.00	738.70	743.14	743.12	6.57	1100.71	1202.87	93.90	0.73
	4125.000	3500.00	0.0	0.0	536.00	738.70	743.40	743.37	6.93	1100.64	1204.98	120.20	0.26
	4125.000	3500.00	0.0	0.0	807.00	738.70	743.96	0.0	7.30	1100.46	1209.66	180.74	0.56
	4175.000	50.00	0.0	0.0	226.00	739.20	742.68	0.0	5.74	1101.01	1118.64	39.35	0.0
*	4175.000	50.00	0.0	0.0	426.00	739.20	743.65	743.65	6.56	1100.71	1202.88	94.00	0.97
*	4175.000	50.00	0.0	0.0	536.00	739.20	743.88	743.88	7.04	1100.64	1204.78	117.72	0.23
*	4175.000	50.00	0.0	0.0	807.00	739.20	744.38	744.38	7.69	1100.49	1208.94	171.23	0.50
*	4225.000	50.00	0.0	0.0	226.00	739.60	744.06	744.05	5.54	1787.02	1887.97	66.69	0.0
*	4225.000	50.00	0.0	0.0	426.00	739.60	744.34	744.34	6.77	1786.77	1890.32	95.60	0.28
*	4225.000	50.00	0.0	0.0	536.00	739.60	744.47	744.47	7.16	1786.66	1891.40	109.43	0.13
*	4225.000	50.00	0.0	0.0	807.00	739.60	744.92	0.0	6.68	1786.28	1895.04	156.38	0.45
4220 CULVERT LIMITS													
	4415.000	190.00	760.50	745.00	226.00	739.60	744.06	0.0	5.53	1787.02	1887.98	66.79	0.0
A	4415.000	190.00	760.50	745.00	426.00	739.60	744.35	0.0	6.75	1786.77	1890.33	95.95	0.29
	4415.000	190.00	760.50	745.00	536.00	739.60	744.48	0.0	7.15	1786.66	1891.42	109.63	0.13
	4415.000	190.00	760.50	745.00	807.00	739.60	761.03	0.0	0.17	1544.65	2009.53	3662.51	16.55
	4465.000	50.00	0.0	0.0	226.00	739.60	744.38	0.0	2.78	1100.61	1205.60	128.09	0.0
B	4465.000	50.00	0.0	0.0	426.00	739.60	744.74	0.0	4.17	1100.50	1208.57	166.40	0.36
	4465.000	50.00	0.0	0.0	536.00	739.60	744.89	0.0	4.77	1100.46	1209.89	183.74	0.16
	4465.000	50.00	0.0	0.0	807.00	739.60	761.03	0.0	0.37	1007.40	1324.52	3660.62	16.14
	4515.000	50.00	0.0	0.0	226.00	740.00	744.39	0.0	3.62	1100.73	1202.41	88.23	0.0
	4515.000	50.00	0.0	0.0	426.00	740.00	744.78	0.0	5.21	1100.61	1205.67	129.00	0.39
	4515.000	50.00	0.0	0.0	536.00	740.00	744.97	0.0	5.81	1100.55	1207.19	148.49	0.18
	4515.000	50.00	0.0	0.0	807.00	740.00	761.03	0.0	0.38	1009.93	1322.65	3534.68	16.06
*	4665.000	150.00	0.0	0.0	161.00	747.89	751.29	751.29	7.24	1139.29	1179.02	39.61	0.0
* C	4665.000	150.00	0.0	0.0	312.00	747.89	751.93	751.93	8.69	1130.70	1185.36	69.53	0.63
	4665.000	150.00	0.0	0.0	397.00	747.89	752.23	752.23	8.99	1126.52	1188.43	87.48	0.31
	4665.000	150.00	0.0	0.0	644.00	747.89	761.03	0.0	0.89	1035.46	1226.81	1257.84	8.80

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SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	OIFWSP
* 4715.000	50.00	0.0	0.0	161.00	750.34	753.75	753.75	7.17	1139.12	1179.14	40.11	0.0
* 4715.000	50.00	0.0	0.0	312.00	750.34	754.39	754.39	8.61	1130.51	1185.49	70.27	0.64
* 4715.000	50.00	0.0	0.0	397.00	750.34	754.61	754.61	9.40	1127.44	1187.76	83.33	0.23
4715.000	50.00	0.0	0.0	644.00	750.34	761.03	0.0	1.36	1058.59	1218.21	827.64	6.41
* 4765.000	50.00	0.0	0.0	161.00	752.70	755.40	755.40	6.36	1118.86	1154.58	53.37	0.0
* 4765.000	50.00	0.0	0.0	312.00	752.70	755.91	755.91	7.51	1111.83	1157.43	54.45	0.52
* 4765.000	50.00	0.0	0.0	397.00	752.70	756.15	756.15	7.92	1108.66	1158.72	65.66	0.23
4765.000	50.00	0.0	0.0	644.00	752.70	761.03	0.0	0.77	1050.86	1463.40	1209.99	4.89
4852.000	87.00	757.70	755.70	161.00	752.70	758.36	0.0	0.88	1078.54	1351.52	278.17	0.0
D 4852.000	87.00	757.70	755.70	312.00	752.70	758.72	0.0	1.35	1073.69	1379.05	373.98	0.36
4852.000	87.00	757.70	755.70	397.00	752.70	758.87	0.0	1.55	1071.61	1390.84	419.86	0.15
4852.000	87.00	757.70	755.70	644.00	752.70	761.10	0.0	0.75	1050.19	1465.63	1239.51	2.22
* 4902.000	50.00	0.0	0.0	161.00	755.80	759.20	759.20	7.26	1139.33	1178.99	39.50	0.0
* 4902.000	50.00	0.0	0.0	312.00	755.80	759.90	759.90	8.29	1129.77	1186.04	73.33	0.71
* 4902.000	50.00	0.0	0.0	397.00	755.80	760.18	760.18	8.80	1126.07	1188.77	89.55	0.27
* 4902.000	50.00	0.0	0.0	644.00	755.80	760.64	760.64	10.76	1119.73	1193.44	121.45	0.47
* 4952.000	50.00	0.0	0.0	161.00	758.82	762.23	762.23	7.16	1139.10	1179.15	40.16	0.0
* E 4952.000	50.00	0.0	0.0	312.00	758.82	762.83	762.83	8.83	1131.00	1185.13	68.33	0.60
E 4952.000	50.00	0.0	0.0	397.00	758.82	763.16	763.16	9.02	1126.58	1188.39	87.22	0.33
E 4952.000	50.00	0.0	0.0	644.00	758.82	763.63	763.63	10.59	1119.35	1193.72	123.51	0.53
F 5470.000	518.00	0.0	0.0	129.00	763.80	767.17	0.0	6.85	1334.95	1354.44	28.55	0.0
F 5470.000	518.00	0.0	0.0	255.00	763.80	768.14	0.0	8.39	1329.76	1356.06	50.76	0.97
F 5470.000	518.00	0.0	0.0	329.00	763.80	768.45	0.0	7.44	1328.04	1356.59	59.56	0.31
F 5470.000	518.00	0.0	0.0	517.00	763.80	769.34	0.0	10.65	1323.33	1358.06	87.42	0.89

SUMMARY OF ERRORS

CAUTION SECNO= 625.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 625.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 625.000 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 4175.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 4175.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 4175.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 4175.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 4175.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 4175.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 4175.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 4225.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 4225.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 4225.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 4225.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 4225.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 4225.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 4225.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 4225.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 4225.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 4665.000 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		
		10c	2c	0.2c
625.000	0.	-1.6	-0.3	0.4
4125.000	3500.	-1.0	-0.3	0.6
4175.000	3550.	-1.2	-0.2	0.5
4225.000	3600.	-0.4	-0.1	0.4
4415.000	3790.	-0.4	-0.1	16.6
4465.000	3840.	-0.5	-0.2	16.1
4515.000	3890.	-0.6	-0.2	16.1
4665.000	4040.	-0.9	-0.3	8.8
4715.000	4090.	-0.9	-0.2	6.4
4765.000	4140.	-0.8	-0.2	4.9
4852.000	4227.	-0.5	-0.2	2.2
4902.000	4277.	-1.0	-0.3	0.5
4952.000	4327.	-0.9	-0.3	0.5
5470.000	4845.	-1.3	-0.3	0.9
-----				
WEIGHTED AVG FOR REACH		-1.2	-0.3	1.7

FHF FOR THE REACH = 010 WITH 92.2% OF THE REACH WITHIN 0.5 FEET  
 ZONE FOR THE REACH = A 2

MADE IN U.S.A.

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HEC2 RELEASE DATED NOV 76 (UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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EJ

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//RMAKC2 JOB RT1.A25.P03078,KEZIAH,N=1,T=2,P=100,PRTY=0

\*\*\*PROCLIB=RT1.MG.PROCLIB

// EXEC RECC2

XXG EXEC PGM=HEC2,R=500K	00000010
XXSTEPLIB DD DSN=RT1.A25.P03078.JCW.LIB.LOAD,DISP=SHR	00000020
XXFT03F001 DD SYSOUT=A	00000030
XXFT01F001 DD DDNAME=SYSIN	00000040
XXFT91F001 DD DSN=8191,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000050
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000060
XXFT92F001 DD DSN=8192,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000070
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000080
XXFT93F001 DD DSN=8193,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000090
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000100
XXFT94F001 DD DSN=8194,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000110
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000120
XXFT95F001 DD DSN=8195,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000130
XX DCB=(BUFNO=1,RECFM=VBS,LRECL=1000,BLKSIZE=6400)	00000140
XXFT96F001 DD DSN=8196,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000150
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000160

//SYSIN DD \*

//

IEF236I ALLOC. FOR RMAKC2 G

IEF237I 177 ALLOCATED TO STEPLIB

IEF237I 562 ALLOCATED TO FT03F001

IEF237I 502 ALLOCATED TO FT01F001

IEF237I 15C ALLOCATED TO FT91F001

IEF237I 15C ALLOCATED TO FT92F001

IEF237I 15C ALLOCATED TO FT93F001

IEF237I 15C ALLOCATED TO FT94F001

IEF237I 15C ALLOCATED TO FT95F001

IEF237I 15C ALLOCATED TO FT96F001

IEF142I - STEP WAS EXECUTED - COND CODE 0000

IEF285I RT1.A25.P03078.JCW.LIB.LOAD KEPT

IEF285I VOL SER NOS= RT1444.

IEF285I SYS77279.T185036.RV001.RMAKC2.I91 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T185036.RV001.RMAKC2.I92 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T185036.RV001.RMAKC2.I93 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T185036.RV001.RMAKC2.I94 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T185036.RV001.RMAKC2.I95 DELETED

IEF285I VOL SER NOS= SPARE7.

IEF285I SYS77279.T185036.RV001.RMAKC2.I96 DELETED

IEF285I VOL SER NOS= SPARE7.

G CORE=500K TIME---0:12.4 UR---466 RD/WR---0:00.0 RC-----0

G USED=242K CPU---0:02.8 DISK---440 REWIND---0:00.0

G I/O---0:09.6 TAPE-----0 FL SR---0:00.0

RMAKC2 TIME---0:12.4

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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C

T1 CHINA GROVE-ROWAN CO. BASIN E STRM 9-2CG  
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK IND NINV IDIR STRY METRIC HVINS Q WSEL FG  
-1. 2. 0. 0. 0.011000 0.0 0.0 0. 708.100 0.0

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC LBW CHNIM ITRACE  
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 26.000 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 0.100 0.100 0.080 0.100 0.300 0.0 0.0 0.0 0.0  
OT 5.000 370.000 287.000 252.000 1255.000 852.000 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 1200.000 25.000 2000.000 2020.000 1200.000 1200.000 1200.000 0.0 0.0 0.0  
GR 712.000 1000.000 711.800 1100.000 711.900 1200.000 711.700 1300.000 711.400 1400.000  
GR 711.500 1500.000 711.400 1600.000 711.300 1700.000 710.800 1800.000 710.600 1900.000  
GR 710.600 2000.000 703.400 2005.000 703.300 2008.000 703.300 2010.000 710.700 2020.000  
GR 710.300 2100.000 709.100 2200.000 708.400 2300.000 708.200 2400.000 707.600 2500.000  
GR 707.400 2600.000 707.600 2700.000 708.200 2800.000 708.500 2900.000 708.800 3000.000  
NC 0.055 0.055 0.035 0.100 0.300 0.0 0.0 0.0 0.0  
OT 5.000 228.000 443.000 561.000 860.000 561.000 0.0 0.0 0.0 0.0

X1 2200.000 11.000 1268.000 1292.000 1000.000 1000.000 1000.000 0.0 0.0 0.0  
GR 733.000 1000.000 722.500 1100.000 718.900 1200.000 718.100 1268.000 711.100 1271.000  
GR 711.000 1273.000 711.100 1275.000 718.400 1282.000 720.100 1300.000 729.000 1400.000  
GR 733.000 1430.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0  
OT 5.000 151.000 301.000 388.000 610.000 388.000 0.0 0.0 0.0 0.0

X1 4500.000 12.000 1335.000 1348.000 2300.000 2300.000 2300.000 0.0 0.0 0.0  
GR 777.100 1000.000 774.000 1100.000 767.000 1200.000 762.500 1300.000 761.200 1335.000  
GR 758.200 1339.000 758.100 1341.000 758.200 1343.000 761.500 1348.000 762.700 1400.000  
GR 771.400 1500.000 777.100 1550.000 0.0 0.0 0.0 0.0 0.0 0.0

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X1	4550.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.200	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	4600.000	19.000	1465.000	1469.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	770.400	1000.000	774.800	1126.000	771.700	1226.000	767.700	1326.000	760.200	1426.000
GR	758.900	1461.000	757.800	1465.000	756.400	1465.600	755.800	1467.000	756.400	1468.400
GR	757.800	1469.000	759.200	1474.000	760.400	1526.000	766.200	1592.000	766.400	1600.000
GR	768.700	1700.000	771.300	1800.000	774.400	1900.000	778.400	2000.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	4.000	0.010	12.700	0.0	0.0	0.0

RINO SPRG. BRNCH. LANE MXLCEL 759.8 RDELV 765.4

X1	4650.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	759.800	765.200	0.0	0.0	0.0	0.0	0.0
BT	16.000	1000.000	778.400	0.0	1100.000	776.000	0.0	1200.000	773.800	0.0
BT	1300.000	771.400	0.0	1400.000	767.400	0.0	1465.000	765.400	757.800	1465.600
BT	765.400	759.200	1467.000	765.400	759.800	1468.400	765.400	759.200	1469.000	765.400
BT	757.800	1500.000	765.200	0.0	1600.000	766.400	0.0	1700.000	768.700	0.0
BT	1800.000	771.300	0.0	1900.000	774.400	0.0	2000.000	778.400	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	4700.000	12.000	1335.000	1348.000	50.000	50.000	50.000	0.0	-1.100	0.0
GR	777.100	1000.000	774.000	1100.000	767.000	1200.000	762.500	1300.000	761.200	1335.000
GR	758.200	1339.000	758.100	1341.000	758.200	1343.000	761.500	1348.000	762.700	1400.000
GR	771.400	1500.000	777.100	1550.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	4750.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	1.100	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.

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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T1 CHINA GROVE-ROWAN CO. BASIN E STRM 9-2CG  
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918  
T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.011000	0.0	0.0	0.	709.100	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

MADE IN U.S.A.

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 CHINA GROVE-ROWAN CO. BASIN E STRM 9-2CG  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6910  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	I=0	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FO
	-10.	5.	0.	0.	0.011000	0.0	0.0	0.	712.100	0.0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IDW	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.

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 HECC RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

	SECCO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRINS	VCH	SSTA	ENDST	AREA	DIFWSP
	1200.000	1200.00	0.0	0.0	370.00	703.30	708.17	0.0	3.61	2001.69	2795.01	236.32	0.0
A	1200.000	1200.00	0.0	0.0	687.00	703.30	708.52	0.0	3.78	2001.45	2905.58	419.67	0.35
	1200.000	1200.00	0.0	0.0	852.00	703.30	708.66	0.0	3.77	2001.35	2952.63	514.33	0.14
	1200.000	1200.00	0.0	0.0	1255.00	703.30	708.91	0.0	3.88	2001.17	3000.00	705.69	0.25
	2200.000	1000.00	0.0	0.0	228.00	711.00	716.30	0.0	5.74	1268.77	1279.98	39.70	0.0
B	2200.000	1000.00	0.0	0.0	443.00	711.00	717.78	0.0	7.66	1268.14	1281.40	57.85	1.48
	2200.000	1000.00	0.0	0.0	561.00	711.00	718.26	717.11	8.70	1254.25	1281.87	65.53	0.48
*	2200.000	1000.00	0.0	0.0	860.00	711.00	719.49	719.49	8.54	1183.73	1293.50	159.61	1.22
<i>29400 CHINA GROVE CORPORATE LIMITS</i>													
*	4500.000	2300.00	0.0	0.0	151.00	758.10	760.78	760.78	7.55	1335.56	1346.91	20.00	0.0
A	4500.000	2300.00	0.0	0.0	301.00	758.10	762.23	762.23	6.94	1307.37	1379.47	63.89	1.45
	4500.000	2300.00	0.0	0.0	388.00	758.10	762.63	762.63	6.87	1297.22	1396.77	98.23	0.40
CHINA GROVE	4500.000	2300.00	0.0	0.0	610.00	758.10	763.08	763.08	7.74	1267.03	1404.41	148.42	0.46
*	4550.000	50.00	0.0	0.0	151.00	759.30	761.97	761.97	7.58	1335.57	1346.90	19.92	0.0
*	4550.000	50.00	0.0	0.0	301.00	759.30	763.41	763.41	7.01	1307.77	1378.83	62.83	1.44
*	4550.000	50.00	0.0	0.0	388.00	759.30	763.84	763.84	6.78	1296.82	1397.56	100.04	0.43
*	4550.000	50.00	0.0	0.0	610.00	759.30	764.28	764.28	7.79	1287.21	1404.32	147.45	0.43
	4600.000	50.00	0.0	0.0	151.00	755.80	762.95	0.0	0.44	1389.28	1555.06	437.72	0.0
	4600.000	50.00	0.0	0.0	301.00	755.80	764.16	0.0	0.56	1373.25	1568.74	654.91	1.20
	4600.000	50.00	0.0	0.0	388.00	755.80	764.45	0.0	0.66	1369.31	1572.10	713.69	0.29
	4600.000	50.00	0.0	0.0	610.00	755.80	764.96	0.0	0.89	1362.58	1577.85	819.18	0.50
	4650.000	50.00	765.20	759.80	151.00	755.80	765.56	0.0	0.19	1354.44	1584.77	954.66	0.0
	4650.000	50.00	765.20	759.80	301.00	755.80	766.25	0.0	0.32	1345.37	1593.89	1117.71	0.68
	4650.000	50.00	765.20	759.80	388.00	755.80	766.45	0.0	0.39	1342.05	1602.22	1169.48	0.20
	4650.000	50.00	765.20	759.80	610.00	755.80	766.82	0.0	0.56	1337.66	1618.49	1270.60	0.37
	4700.000	50.00	0.0	0.0	151.00	757.00	765.56	0.0	0.39	1207.48	1445.56	784.69	0.0
	4700.000	50.00	0.0	0.0	301.00	757.00	766.24	0.0	0.63	1195.06	1453.41	954.53	0.68
	4700.000	50.00	0.0	0.0	388.00	757.00	766.45	0.0	0.77	1192.15	1455.74	1007.60	0.20
	4700.000	50.00	0.0	0.0	610.00	757.00	766.82	0.0	1.10	1186.85	1460.03	1107.59	0.37
	4750.000	50.00	0.0	0.0	151.00	758.10	765.56	0.0	0.56	1231.92	1432.92	543.17	0.0
B	4750.000	50.00	0.0	0.0	301.00	758.10	766.24	0.0	0.88	1216.77	1440.75	688.07	0.68
	4750.000	50.00	0.0	0.0	388.00	758.10	766.45	0.0	1.06	1212.25	1443.07	734.32	0.20
CHINA GROVE	4750.000	50.00	0.0	0.0	610.00	758.10	766.82	0.0	1.50	1203.98	1447.37	822.60	0.37

MADE IN U.S.A.

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SUMMARY OF ERRORS

CAUTION SECNO= 2200.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 2200.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 4500.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 4500.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 4500.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
 CAUTION SECNO= 4500.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 4500.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 4500.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
 CAUTION SECNO= 4500.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 4500.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 4500.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 4500.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 4500.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 4550.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 4550.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 4550.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 4550.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 4550.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
 CAUTION SECNO= 4550.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 4550.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 4550.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
 CAUTION SECNO= 4550.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 4550.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 4550.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 4650.000 PROFILE= 4 HYDRAULIC JUMP D.S.

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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		
		10c	2c	0.2c
1200.000	0.	-0.5	-0.1	0.3
2200.000	1000.	-2.0	-0.5	1.2
4500.000	3300.	-1.8	-0.4	0.5
4550.000	3350.	-1.9	-0.4	0.4
4600.000	3400.	-1.5	-0.3	0.5
4650.000	3450.	-0.9	-0.2	0.4
4700.000	3500.	-0.9	-0.2	0.4
4750.000	3550.	-0.9	-0.2	0.4
WEIGHTED AVG FOR REACH		-1.7	-0.4	0.8

FHF FOR THE REACH = 0.15 WITH 97.2c OF THE REACH WITHIN 0.5 FEET ZONE FOR THE REACH = A 3

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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KEZIAH

RMKAC2

10-PAGES

359-LINES

0-PLOTS # RTI.A25.P03078

1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901  
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//RMAK3 JOB RTI.A25.P03078,KEZIAN,1=1,T=2,P=100,PRTY=0

\*\*\*PROCLIB=RTI.PG.PROCLIB

// EXEC HEC2

XXG EXEC PGM=HEC2,RE=500K	00000010
XXSTEP1 DD DSN=RTI.A25.P03078.JCW.LIB.LOAD,DISP=SHR	00000020
XXFT03F001 DD SYSOUT=A	00000030
XXFT01F001 DD DDNAME=SYSIN	00000040
XXFT91F001 DD DSN=8191,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000050
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000060
XXFT92F001 DD DSN=8192,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000070
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000080
XXFT93F001 DD DSN=8193,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000090
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000100
XXFT94F001 DD DSN=8194,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000110
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000120
XXFT95F001 DD DSN=8195,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000130
XX DCB=(BUFNO=1,RECFM=VBS,LRECL=1000,BLKSIZE=6400)	00000140
XXFT96F001 DD DSN=8196,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),	00000150
XX DCB=(BUFNO=1,RECFM=FB,LRECL=133,BLKSIZE=6384)	00000160

//SYSIN DD \*

//

IEF236I ALLOC. FOR RMAK3 6

IEF237I 177	ALLOCATED TO STEPLIB
IEF237I 561	ALLOCATED TO FT03F001
IEF237I 506	ALLOCATED TO FT01F001
IEF237I 15C	ALLOCATED TO FT91F001
IEF237I 15C	ALLOCATED TO FT92F001
IEF237I 15C	ALLOCATED TO FT93F001
IEF237I 15C	ALLOCATED TO FT94F001
IEF237I 15C	ALLOCATED TO FT95F001
IEF237I 15C	ALLOCATED TO FT96F001

IEF142I - STEP WAS EXECUTED - COND CODE 0000

IEF285I	RTI.A25.P03078.JCW.LIB.LOAD	KEPT
IEF285I	VOL SER NOS= RTI444.	
IEF285I	SYS77279.T185038.RV001.RMAK3.I91	DELETED
IEF285I	VOL SER NOS= SPARE7.	
IEF285I	SYS77279.T185038.RV001.RMAK3.I92	DELETED
IEF285I	VOL SER NOS= SPARE7.	
IEF285I	SYS77279.T185038.RV001.RMAK3.I93	DELETED
IEF285I	VOL SER NOS= SPARE7.	
IEF285I	SYS77279.T185038.RV001.RMAK3.I94	DELETED
IEF285I	VOL SER NOS= SPARE7.	
IEF285I	SYS77279.T185038.RV001.RMAK3.I95	DELETED
IEF285I	VOL SER NOS= SPARE7.	
IEF285I	SYS77279.T185038.RV001.RMAK3.I96	DELETED
IEF285I	VOL SER NOS= SPARE7.	

G	CORE=500K	TIME---0:13.6	UR---603	RD/WR---0:00.0	RC-----0
G	USED=234K	CPU---0:03.5	DISK---436	REWIND---0:00.0	
G		I/O---0:10.0	TAPL-----0	FL SR---0:00.0	

RMAK3 TIME---0:13.6

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 CHINA GROVE-ROWAN CO. BASIN E STRM 10-306  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-6 JOB NO. 6918  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR
	-1.	2.	0.	0.	0.010000	0.0	0.0	0.	736.600	0.0

J2	NPROF	IPLOT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CENIM	ITRACE
	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	26.000	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
QT	5.000	241.000	458.000	576.000	871.000	576.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	350.000	12.000	1126.000	1141.000	350.000	350.000	350.000	0.0	0.0	0.0
GR	754.100	1000.000	747.800	1067.000	742.000	1100.000	737.700	1126.000	731.700	1131.000
GR	731.600	1134.000	731.700	1136.000	737.700	1141.000	734.500	1200.000	737.600	1300.000
GR	749.400	1400.000	754.100	1490.000	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	184.000	358.000	456.000	702.000	456.000	0.0	0.0	0.0	0.0

X1	1000.000	12.000	1110.000	1123.000	650.000	650.000	650.000	0.0	-0.400	0.0
GR	760.200	1000.000	742.700	1100.000	742.300	1110.400	740.200	1112.000	740.100	1114.000
GR	740.300	1116.000	743.500	1123.000	743.800	1139.000	746.000	1143.000	747.200	1200.000
GR	759.200	1300.000	760.200	1345.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	1050.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.400	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1100.000	24.000	1159.000	1177.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	754.800	1000.000	759.500	1062.000	743.800	1152.000	743.800	1159.000	742.800	1159.200
GR	742.000	1160.000	741.700	1161.000	742.000	1162.000	742.800	1162.800	743.800	1163.000
GR	741.700	1173.000	740.800	1173.200	739.900	1174.000	739.700	1175.000	739.900	1176.000
GR	740.800	1176.800	741.700	1177.000	743.100	1184.000	743.400	1200.000	745.600	1204.000
GR	746.800	1261.000	758.800	1361.000	759.800	1406.000	764.800	1465.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	18.000	10.000	25.130	0.0	0.0	0.0

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X1	1162.000	0.0	0.0	0.0	62.000	62.000	62.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	745.700	751.600	0.0	0.0	0.0	0.0	0.0
BT	20.000	1000.000	764.800	0.0	1100.000	756.200	0.0	1159.000	751.600	743.800
BT	1159.200	751.600	742.800	1160.000	751.600	742.000	1161.000	751.600	741.700	1162.000
BT	751.600	742.000	1162.800	751.600	742.800	1163.000	751.600	743.800	1173.000	751.600
BT	741.700	1173.200	751.600	740.800	1174.000	751.600	739.900	1175.000	751.600	739.700
BT	1176.000	751.600	739.900	1176.800	751.600	740.800	1177.000	751.600	741.700	1200.000
BT	751.600	0.0	1300.000	756.300	0.0	1400.000	762.300	0.0	1465.000	764.800
BT	0.0	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

X1	1212.000	12.000	1100.000	1123.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	750.200	1000.000	742.700	1100.000	742.300	1110.000	740.200	1112.000	740.100	1114.000
GR	740.300	1116.000	743.500	1123.000	743.600	1139.000	746.000	1143.000	747.200	1200.000
GR	759.200	1300.000	760.200	1345.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	1262.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.400	0.0
QT	5.000	145.000	268.000	370.000	581.000	370.000	0.0	0.0	0.0	0.0

X1	1300.000	10.000	1160.000	1174.000	38.000	38.000	38.000	0.0	0.0	0.0
GR	767.400	1000.000	754.800	1063.000	750.100	1100.000	748.000	1160.000	744.000	1165.000
GR	743.900	1167.000	744.000	1169.000	748.400	1174.000	751.900	1200.000	763.700	1300.000
QT	5.000	132.000	263.000	339.000	535.000	339.000	0.0	0.0	0.0	0.0

X1	1460.000	12.000	1128.000	1137.000	160.000	160.000	160.000	0.0	-0.600	0.0
GR	770.100	1000.000	765.700	1030.000	756.200	1058.000	752.900	1100.000	752.100	1128.000
GR	748.100	1129.000	747.800	1131.000	748.000	1133.000	751.500	1137.000	756.000	1200.000
GR	767.300	1300.000	770.100	1370.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	1510.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

X1	1560.000	19.000	1230.000	1237.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	773.200	1000.000	765.800	1100.000	762.900	1142.000	756.000	1162.000	752.700	1204.000
GR	751.900	1230.000	750.100	1232.500	748.600	1233.000	747.800	1234.000	747.600	1235.000
GR	747.800	1236.000	748.600	1237.000	750.100	1237.500	751.300	1241.000	755.800	1304.000
GR	763.000	1370.000	764.600	1400.000	771.400	1500.000	773.200	1530.000	0.0	0.0
SB	0.900	1.500	2.500	0.0	5.000	0.010	19.630	0.0	0.0	0.0

X1	1601.000	0.0	0.0	0.0	41.000	41.000	41.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	752.600	758.600	0.0	0.0	0.0	0.0	0.0
BT	14.000	1000.000	773.200	0.0	1100.000	765.800	0.0	1200.000	759.300	0.0
BT	1232.500	758.600	750.100	1233.000	758.600	751.500	1234.000	758.600	752.400	1235.000
BT	758.600	752.600	1236.000	758.600	752.400	1237.000	758.600	751.500	1237.500	758.600
BT	750.100	1300.000	759.500	0.0	1400.000	764.600	0.0	1500.000	771.400	0.0
BT	1530.000	773.200	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

X1	1651.000	12.000	1129.000	1137.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	770.100	1000.000	765.700	1030.000	756.200	1058.000	752.900	1100.000	752.100	1128.000
GR	748.100	1129.000	747.800	1131.000	748.000	1133.000	751.500	1137.000	756.000	1200.000
GR	767.300	1300.000	770.100	1370.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	1701.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
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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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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T1 CHINA GROVE-ROWAN CO. BASIN E STRM ID-3CG  
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.010000	0.0	0.0	0.	737.600	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 CHINA GROVE-ROWAN CO. BASIN E STRM 10-3CG  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	4.	0.	0.	0.010000	0.0	0.0	0.	739.600	0.0
J2	NPROF	IPLT	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

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 CHINA GROVE-ROWAN CO. BASIN E STRM 10-3CG  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES H-G JOB NO. 6918  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	MINV	IOIR	STRT	METRIC	IVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.010000	0.0	0.0	0.	740.600	0.0
J2	NPROF	IPLOT	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

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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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	CRHS	VCH	SSTA	ENDST	AREA	OIFWSP
* 350.000	350.00	0.0	0.0	241.00	731.60	735.47	735.47	6.41	1127.86	1238.88	58.57	0.0
* A 350.000	350.00	0.0	0.0	458.00	731.60	736.13	736.13	7.23	1127.31	1265.30	116.67	0.66
350.000	350.00	0.0	0.0	576.00	731.60	736.36	0.0	7.65	1127.12	1274.25	142.28	0.22
350.000	350.00	0.0	0.0	871.00	731.60	736.85	0.0	8.01	1126.70	1294.21	210.27	0.50
* 1000.000	650.00	0.0	0.0	184.00	739.70	742.73	742.73	6.97	1097.55	1122.19	31.14	0.0
* B 1000.000	650.00	0.0	0.0	358.00	739.70	743.64	743.64	7.85	1092.35	1139.43	62.69	0.91
1000.000	650.00	0.0	0.0	456.00	739.70	743.94	743.94	8.44	1090.50	1139.99	77.52	0.31
* 1000.000	650.00	0.0	0.0	702.00	739.70	744.56	744.56	9.66	1087.11	1141.10	109.12	0.61
1050.000	50.00	0.0	0.0	184.00	740.10	743.49	0.0	5.54	1095.48	1122.98	40.57	0.0
1050.000	50.00	0.0	0.0	358.00	740.10	744.29	0.0	6.81	1090.90	1139.90	74.95	0.81
1050.000	50.00	0.0	0.0	456.00	740.10	744.63	0.0	7.32	1089.00	1140.50	91.68	0.33
1050.000	50.00	0.0	0.0	702.00	740.10	745.30	0.0	8.34	1085.14	1141.73	128.19	0.68
1100.000	50.00	0.0	0.0	184.00	739.70	743.94	0.0	3.57	1151.22	1200.98	56.85	0.0
1100.000	50.00	0.0	0.0	358.00	739.70	744.84	0.0	3.75	1146.03	1202.62	104.92	0.90
1100.000	50.00	0.0	0.0	456.00	739.70	745.20	0.0	3.96	1143.94	1203.28	126.09	0.36
1100.000	50.00	0.0	0.0	702.00	739.70	745.96	0.0	4.39	1139.59	1221.34	176.35	0.76
1152.000	62.00	751.60	745.70	184.00	739.70	744.37	0.0	2.57	1148.72	1201.77	79.22	0.0
* 1152.000	62.00	751.60	745.70	358.00	739.70	749.56	0.0	0.64	1118.94	1204.06	666.18	5.19
* 1152.000	62.00	751.60	745.70	456.00	739.70	751.98	0.0	0.49	1105.07	1304.23	1107.02	2.42
* 1152.000	62.00	751.60	745.70	702.00	739.70	753.08	0.0	0.62	1093.75	1313.41	1334.94	1.10
1212.000	50.00	0.0	0.0	184.00	740.10	744.41	0.0	2.78	1090.23	1140.11	80.73	0.0
1212.000	50.00	0.0	0.0	358.00	740.10	749.56	0.0	1.01	1060.80	1219.66	617.89	5.15
1212.000	50.00	0.0	0.0	456.00	740.10	751.98	0.0	0.79	1046.96	1239.85	1044.07	2.42
1212.000	50.00	0.0	0.0	702.00	740.10	753.08	0.0	1.01	1040.57	1249.02	1254.68	1.10
1262.000	50.00	0.0	0.0	184.00	740.50	744.45	0.0	3.35	1092.21	1139.48	63.91	0.0
C 1262.000	50.00	0.0	0.0	358.00	740.50	749.56	0.0	1.11	1063.08	1216.34	555.67	5.10
1262.000	50.00	0.0	0.0	456.00	740.50	751.98	0.0	0.85	1049.24	1236.53	968.19	2.42
1262.000	50.00	0.0	0.0	702.00	740.50	753.08	0.0	1.08	1042.95	1245.69	1182.63	1.10
1300.000	38.00	0.0	0.0	145.00	743.90	746.61	746.61	7.74	1151.74	1171.96	18.73	0.0
1300.000	38.00	0.0	0.0	288.00	743.90	749.35	0.0	4.74	1121.23	1181.11	83.90	2.75
1300.000	38.00	0.0	0.0	370.00	743.90	751.96	0.0	2.03	1085.33	1200.53	326.26	2.61
1300.000	38.00	0.0	0.0	581.00	743.90	753.06	0.0	2.25	1076.68	1209.85	462.79	1.10

CHINA  
BROVE  
CORP.  
LIMITS

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SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
* 1460.000	160.00	0.0	0.0	132.00	747.20	750.09	750.09	8.24	1128.35	1136.07	16.02	0.0
* A 1460.000	160.00	0.0	0.0	263.00	747.20	751.72	751.72	8.46	1120.40	1146.43	35.54	1.63
* 1460.000	160.00	0.0	0.0	339.00	747.20	752.48	752.48	7.47	1097.74	1159.08	70.66	0.76
* 1460.000	160.00	0.0	0.0	535.00	747.20	753.13	753.13	8.07	1089.39	1168.27	116.71	0.66
1510.000	50.00	0.0	0.0	132.00	747.40	751.32	0.0	5.33	1128.09	1140.13	25.08	0.0
1510.000	50.00	0.0	0.0	263.00	747.40	752.86	0.0	5.25	1095.57	1161.46	81.51	1.53
1510.000	50.00	0.0	0.0	339.00	747.40	753.14	0.0	5.72	1091.89	1165.52	101.73	0.29
1510.000	50.00	0.0	0.0	535.00	747.40	753.74	0.0	6.49	1084.26	1173.90	150.61	0.60
1560.000	50.00	0.0	0.0	132.00	747.60	751.41	751.31	7.44	1230.69	1242.45	19.59	0.0
1560.000	50.00	0.0	0.0	263.00	747.60	753.09	0.0	4.83	1198.99	1266.11	82.07	1.68
1560.000	50.00	0.0	0.0	339.00	747.60	753.41	0.0	4.92	1194.93	1270.58	104.85	0.33
1560.000	50.00	0.0	0.0	535.00	747.60	754.05	0.0	5.13	1186.90	1279.41	157.89	0.63
1601.000	41.00	758.60	752.60	132.00	747.60	751.42	0.0	7.39	1230.67	1242.63	19.74	0.0
1601.000	41.00	758.60	752.60	263.00	747.60	757.26	0.0	0.60	1158.33	1317.45	581.84	5.85
1601.000	41.00	758.60	752.60	339.00	747.60	759.18	0.0	0.46	1152.77	1335.01	908.95	1.92
1601.000	41.00	758.60	752.60	535.00	747.60	759.90	0.0	0.62	1150.68	1341.64	1043.75	0.72
1651.000	50.00	0.0	0.0	132.00	747.80	752.11	0.0	4.89	1127.50	1145.59	30.87	0.0
1651.000	50.00	0.0	0.0	263.00	747.80	757.26	0.0	1.01	1054.87	1211.17	551.75	5.15
1651.000	50.00	0.0	0.0	339.00	747.80	759.18	0.0	0.78	1049.22	1226.14	873.30	1.92
1651.000	50.00	0.0	0.0	535.00	747.80	759.90	0.0	1.06	1047.09	1234.52	1005.23	0.72
1701.000	50.00	0.0	0.0	132.00	748.00	752.27	0.0	4.97	1128.01	1144.93	30.04	0.0
B 1701.000	50.00	0.0	0.0	263.00	748.00	757.26	0.0	1.08	1055.45	1209.41	520.96	4.99
1701.000	50.00	0.0	0.0	339.00	748.00	759.18	0.0	0.82	1049.80	1226.38	837.85	1.92
1701.000	50.00	0.0	0.0	535.00	748.00	759.90	0.0	1.11	1047.68	1232.75	968.13	0.72

SUMMARY OF ERRORS

CAUTION SECNO= 350.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 350.000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1000.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 1000.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 1000.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 1000.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 1000.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 1000.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 1000.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 1000.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1162.000 PROFILE= 2 HYDRAULIC JUMP D.S.  
 CAUTION SECNO= 1162.000 PROFILE= 3 HYDRAULIC JUMP D.S.  
 CAUTION SECNO= 1162.000 PROFILE= 4 HYDRAULIC JUMP D.S.

CAUTION SECNO= 1300.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 1300.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 1300.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1460.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO= 1460.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO= 1460.000 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1460.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 1460.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 1460.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 1460.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 1460.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 1460.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 1460.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 1460.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

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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		
		10F	2C	0.2C
350.000	0.	-0.9	-0.2	0.5
1000.000	650.	-1.2	-0.3	0.6
1050.000	700.	-1.1	-0.3	0.7
1100.000	750.	-1.3	-0.4	0.8
1162.000	812.	-7.6	-2.4	1.1
1212.000	862.	-7.6	-2.4	1.1
1262.000	912.	-7.5	-2.4	1.1
1300.000	950.	-5.4	-2.6	1.1
1460.000	1110.	-2.4	-0.8	0.7
1510.000	1160.	-1.8	-0.3	0.6
1560.000	1210.	-2.0	-0.3	0.6
1601.000	1251.	-7.8	-1.9	0.7
1651.000	1301.	-7.1	-1.9	0.7
1701.000	1351.	-6.9	-1.9	0.7
WEIGHTED AVG FOR REACH		-2.8	-0.9	0.7

FHF FOR THE REACH = 0.30 WITH 7.4% OF THE REACH WITHIN 1.0 FEET ZONE FOR THE REACH = A 6

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		10C	1C	DIFF.			
SEC. 350.000							
1	100.	736.0	736.9	-0.9	-0.9	010	100.
2	200.	737.1	738.1	-1.0	-0.9	010	100.
3	300.	738.3	739.3	-1.0	-1.0	010	100.
4	400.	739.4	740.4	-1.1	-1.0	010	100.
5	500.	740.5	741.6	-1.1	-1.0	010	100.
6	600.	741.6	742.8	-1.2	-1.0	010	100.
SEC. 1000.000							
7	700.	742.8	744.0	-1.2	-1.1	010	100.
SEC. 1050.000							
SEC. 1100.000							
8	800.	744.1	747.9	-3.8	-1.4	015	80.
SEC. 1162.000							
SEC. 1212.000							
9	900.	744.4	752.0	-7.6	-2.1	020	33.
SEC. 1262.000							
SEC. 1300.000							
10	1000.	747.2	752.0	-4.9	-2.4	025	0.
11	1100.	748.8	752.3	-3.5	-2.5	025	0.



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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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KEZIAH

RMAK3

12-PAGES

475-LINES

0-PLOTS # RTI.A25.P03078

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