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HCC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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T1 STREAM 14L LEXINGTON-DAVIDSON CO.  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INO NINV IDIR STRT METRIC HVINS Q WSEL FQ

-1. 2. 0. 0. 0.029000 0.0 0.0 0. 657.100 0.0

J2 MPROF IPILOT PRFVS XSECV XSECH FN ALLOC IBW 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

NC 0.065 0.088 0.068 0.100 0.300 0.0 0.0 0.0 0.0 0.0

JI 4.000 130.000 250.000 325.000 510.000 0.0 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 100.000 9.000 1061.000 1068.000 100.000 100.000 100.000 0.0 0.0 0.0

SR 673.600 1000.000 654.400 1048.000 653.200 1061.000 652.400 1062.000 652.300 1066.000

SR 652.100 1067.000 652.500 1068.000 659.300 1100.000 673.600 1178.000 0.0 0.0

X1 518.000 12.000 1188.000 1198.000 418.000 418.000 418.000 0.0 0.0 0.0

SR 679.200 1000.000 671.200 1100.000 669.400 1128.000 671.200 1138.000 670.200 1167.000

SR 666.800 1188.000 664.400 1191.000 664.200 1193.000 664.400 1195.000 665.400 1198.000

SR 667.100 1200.000 679.200 1263.000 0.0 0.0 0.0 0.0 0.0 0.0

X1 780.000 9.000 1188.000 1198.000 262.000 262.000 262.000 0.0 0.0 0.0

SR 700.000 1113.000 690.000 1143.000 673.600 1188.000 671.100 1191.000 670.900 1193.000

SR 671.100 1195.000 672.100 1138.000 690.000 1238.000 700.000 1273.000 0.0 0.0

FJ 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

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T1 STREAM 14L LEXINGTON-DAVIDSON CO.  
 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.   | 0.029000 | 0.0    | 0.0   | 0. | 658.100 | 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    |

\*PROF 2

CCHV= 0.100 CFHV= 0.300

\*SECNO 100,000

| SECNO | DEPTH | WSEL | CRWS  | WSELK  | EG   | HV    | HL    | OLOSS  | BANK ELEV  |
|-------|-------|------|-------|--------|------|-------|-------|--------|------------|
| Q     | QLOB  | QCH  | QROB  | ALOB   | ACH  | AROB  | VOL   | TWA    | LEFT/RIGHT |
| TIME  | VLOB  | VCH  | VROB  | XNL    | XNCH | XNR   | WTN   | ELMIN  | SSTA       |
| SLOPE | XLOBL | XLCH | XLOBR | ITRIAL | IDC  | ICONT | CORAR | TOPWID | ENDST      |

|          |      |        |      |        |        |       |     |        |         |
|----------|------|--------|------|--------|--------|-------|-----|--------|---------|
| 100.00   | 3.47 | 655.57 | 0.0  | 658.10 | 656.22 | 0.66  | 0.0 | 0.0    | 653.20  |
| 250.     | 21.  | 157.   | 61.  | 7.     | 22.    | 10.   | 0.  | 0.     | 652.90  |
| 0.0      | 3.06 | 7.58   | 3.44 | 0.088  | 0.060  | 0.088 | 0.0 | 652.10 | 1055.08 |
| 0.028958 | 100. | 100.   | 100. | 0      | 0      | 5     | 0.0 | 26.26  | 1001.34 |

\*SECNO 519,000

|          |      |        |        |       |        |       |       |        |         |
|----------|------|--------|--------|-------|--------|-------|-------|--------|---------|
| 519.00   | 3.73 | 667.93 | 667.66 | 0.0   | 668.74 | 0.81  | 12.47 | 0.05   | 666.90  |
| 250.     | 6.   | 229.   | 15.    | 3.    | 30.    | 5.    | 0.    | 0.     | 665.40  |
| 0.02     | 1.29 | 7.52   | 2.04   | 0.088 | 0.064  | 0.088 | 0.068 | 664.20 | 1181.44 |
| 0.030748 | 418. | 418.   | 418.   | 8     | 5      | 0     | 0.0   | 22.89  | 1204.33 |

\*SECNO 780,000

|          |      |        |      |       |        |       |       |        |         |
|----------|------|--------|------|-------|--------|-------|-------|--------|---------|
| 780.00   | 3.99 | 674.89 | 0.0  | 0.0   | 675.51 | 0.63  | 6.75  | 0.02   | 673.60  |
| 250.     | 4.   | 221.   | 25.  | 2.    | 33.    | 9.    | 1.    | 0.     | 672.10  |
| 0.03     | 1.78 | 6.69   | 2.93 | 0.088 | 0.068  | 0.088 | 0.068 | 670.90 | 1184.48 |
| 0.021928 | 262. | 262.   | 262. | 4     | 0      | 0     | 0.0   | 19.73  | 1204.22 |

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 STREAM 14L LEXINGTON-DAVIDSON CO.  
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G 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.    | 0.029000 | 0.0    | 0.0   | 0.  | 660.100 | 0.0    |
| J2 | NPROF  | IPLOT | PREVS  | XSECV | XSECH    | FM     | ALLDC | IBW | CHNIM   | ITRACE |
|    | 3.000  | 0.0   | -1.000 | 0.0   | 0.0      | 0.0    | 0.0   | 0.0 | 0.0     | 0.0    |

\*PROF 3

CCHV= 0.100 CENV= 0.300

\*SECNO 100.000

| SECNO    | DEPTH | WSEL   | CRIWS | WSELK  | EG     | HV    | HL    | LOSS   | BANK ELEV  |
|----------|-------|--------|-------|--------|--------|-------|-------|--------|------------|
| Q        | QLOB  | QCH    | QROB  | ALOB   | ACH    | AROB  | VOL   | TWA    | LEFT/RIGHT |
| TIME     | VLOB  | VCH    | VROB  | XNL    | XNCH   | XNR   | WTN   | ELMIN  | SSTA       |
| SLOPE    | XLOBL | YLCH   | XLOBR | ITRIAL | IDC    | ICONT | CORAR | TOPWID | ENDST      |
| 100.00   | 3.87  | 655.97 | 0.0   | 660.10 | 656.70 | 0.73  | 0.0   | 0.0    | 653.20     |
| 325.     | 32.   | 204.   | 69.   | 10.    | 25.    | 24.   | 0.    | 0.     | 652.90     |
| 0.0      | 3.59  | 8.20   | 3.77  | 0.088  | 0.068  | 0.088 | 0.0   | 652.10 | 1054.08    |
| 0.028912 | 100.  | 100.   | 100.  | 0      | 0      | 6     | 0.0   | 29.25  | 1083.33    |

\*SECNO 513.000

|          |      |        |        |       |        |       |       |        |         |
|----------|------|--------|--------|-------|--------|-------|-------|--------|---------|
| 513.00   | 4.14 | 668.34 | 668.19 | 0.0   | 669.27 | 0.93  | 12.51 | 0.06   | 666.90  |
| 325.     | 17.  | 284.   | 26.    | 7.    | 35.    | 8.    | 1.    | 0.     | 665.40  |
| 0.0      | 2.37 | 4.21   | 3.12   | 0.088 | 0.068  | 0.088 | 0.068 | 664.20 | 1178.83 |
| 0.031012 | 418. | 418.   | 418.   | 8     | 8      | 0     | 0.0   | 27.63  | 1206.46 |

\*SECNO 780.000

|          |      |        |      |       |        |       |       |        |         |
|----------|------|--------|------|-------|--------|-------|-------|--------|---------|
| 780.00   | 4.06 | 675.36 | 0.0  | 0.0   | 676.09 | 0.74  | 6.80  | 0.02   | 673.60  |
| 325.     | 9.   | 277.   | 39.  | 4.    | 38.    | 12.   | 1.    | 0.     | 672.10  |
| 0.0      | 2.21 | 7.34   | 3.27 | 0.088 | 0.068  | 0.088 | 0.068 | 670.90 | 1183.13 |
| 0.022056 | 262. | 262.   | 262. | 4     | 0      | 0     | 0.0   | 22.10  | 1205.28 |

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

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I1 STREAM 14L LEXINGTON-DAVIDSON CO.  
 I2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6818  
 I3 500 YEAR FLOOD WATER SURFACE PROFILE

|    |        |     |      |      |          |        |       |    |         |     |
|----|--------|-----|------|------|----------|--------|-------|----|---------|-----|
| J1 | ICHECK | I40 | NINV | IDIR | STRT     | MEARIC | HVINS | Q  | WSEL    | FQ  |
|    | -10.   | 5.  | 0.   | 0.   | 0.029000 | 0.0    | 0.0   | 1. | 661.100 | 0.0 |

|    |        |      |        |       |       |     |       |     |       |        |
|----|--------|------|--------|-------|-------|-----|-------|-----|-------|--------|
| J2 | MPROF  | IPLO | PREVS  | XSECV | XSECH | FN  | ALLDC | IN  | CHNIM | ITRACE |
|    | 15.000 | 0.0  | -1.000 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0    |

\*PROF 4

CEHV= 0.100 CEHV= 0.300

\*SECNO 100.000

| SECNO | DEPT   | CWSEL | CRWS  | WSELK  | EG   | HV    | HL    | LOSS   | BANK ELEV  |
|-------|--------|-------|-------|--------|------|-------|-------|--------|------------|
| 0     | CLOR   | QCH   | GROR  | ALOB   | ACH  | AROB  | VOL   | TWA    | LEFT/RIGHT |
| TIME  | VLOR   | VCH   | VROB  | XNL    | XNCH | XNR   | XTV   | ELMIN  | SSTA       |
| SLOPE | YI ORL | YLCH  | XLOBR | ITRIAL | IOC  | ICORF | C PAR | TOPWID | ENDST      |

|          |      |        |      |        |        |       |     |        |         |
|----------|------|--------|------|--------|--------|-------|-----|--------|---------|
| 100.00   | 4.65 | 656.75 | 0.0  | 661.10 | 657.64 | 0.89  | 0.0 | 0.0    | 653.20  |
| 510.     | 63.  | 284.   | 163. | 16.    | 30.    | 37.   | 0.  | 0.     | 652.90  |
| 0.0      | 4.01 | 9.37   | 4.39 | 0.088  | 0.068  | 0.000 | 0.0 | 652.10 | 1052.13 |
| 0.020931 | 100. | 100.   | 100. | 0      | "      | "     | 1.0 | 35.12  | 1087.25 |

\*SECNO 518.000

|         |      |        |        |       |        |       |       |        |         |
|---------|------|--------|--------|-------|--------|-------|-------|--------|---------|
| 518.00  | 4.92 | 669.12 | 669.09 | 0.0   | 670.24 | 0.12  | 12.54 | 0.07   | 666.90  |
| 512.    | 50.  | 400.   | 61.    | 16.   | 42.    | 10.   | 1.    | 0.     | 665.40  |
| 0.01    | 5.17 | 9.43   | 3.60   | 0.098 | 0.000  | 0.000 | 0.068 | 664.20 | 1173.85 |
| 0.01112 | 418. | 418.   | 418.   | 6     | "      | "     | 0.0   | 36.69  | 1210.54 |

\*SECNO 780.000

|          |      |        |      |       |     |       |       |        |         |
|----------|------|--------|------|-------|-----|-------|-------|--------|---------|
| 780.00   | 5.36 | 676.26 | 0.0  | 0.0   | 0.0 | 0.07  | 6.37  | 0.02   | 673.60  |
| 510.     | 29.  | 405.   | 76.  | 10.   | "   | 14.   | 1.    | 1.     | 672.10  |
| 0.02     | 2.57 | 8.66   | 3.93 | 0.000 | "   | 0.000 | 0.068 | 670.90 | 1180.69 |
| 0.023023 | 262. | 262.   | 262. | 0     | "   | "     | 0.0   | 26.61  | 1207.30 |

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 ERROR CORR - 01  
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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  | CRWS   | VCH  | SSTA    | ENDST   | AREA  | DIFWSP |
|---------|--------|-------|------|--------|--------|--------|--------|------|---------|---------|-------|--------|
| 100.000 | 100.00 | 0.0   | 0.0  | 130.00 | 652.10 | 654.74 | 0.0    | 6.19 | 1057.16 | 1077.19 | 27.65 | 0.0    |
| 100.000 | 100.00 | 0.0   | 0.0  | 250.00 | 652.10 | 655.57 | 0.0    | 7.58 | 1055.08 | 1081.34 | 46.87 | 0.83   |
| 100.000 | 100.00 | 0.0   | 0.0  | 325.00 | 652.10 | 655.97 | 0.0    | 8.20 | 1054.08 | 1083.33 | 57.94 | 0.40   |
| 100.000 | 100.00 | 0.0   | 0.0  | 510.00 | 652.10 | 656.75 | 0.0    | 9.37 | 1052.13 | 1087.25 | 83.15 | 0.78   |
| 518.000 | 418.00 | 0.0   | 0.0  | 130.00 | 664.20 | 667.03 | 0.0    | 5.89 | 1187.14 | 1199.92 | 23.14 | 0.0    |
| 518.000 | 418.00 | 0.0   | 0.0  | 250.00 | 664.20 | 667.93 | 667.66 | 7.52 | 1181.44 | 1204.33 | 39.00 | 0.90   |
| 518.000 | 418.00 | 0.0   | 0.0  | 325.00 | 664.20 | 668.34 | 668.19 | 8.21 | 1178.83 | 1206.46 | 49.36 | 0.41   |
| 518.000 | 418.00 | 0.0   | 0.0  | 510.00 | 664.20 | 669.12 | 669.09 | 9.43 | 1173.85 | 1210.54 | 74.55 | 0.78   |
| 780.000 | 262.00 | 0.0   | 0.0  | 130.00 | 670.90 | 673.89 | 0.0    | 5.30 | 1187.21 | 1201.99 | 26.70 | 0.0    |
| 780.000 | 262.00 | 0.0   | 0.0  | 250.00 | 670.90 | 674.89 | 0.0    | 6.69 | 1184.48 | 1204.22 | 43.87 | 1.00   |
| 780.000 | 262.00 | 0.0   | 0.0  | 325.00 | 670.90 | 675.36 | 0.0    | 7.34 | 1183.18 | 1205.28 | 53.81 | 0.47   |
| 780.000 | 262.00 | 0.0   | 0.0  | 510.00 | 670.90 | 676.26 | 0.0    | 8.66 | 1180.69 | 1207.30 | 75.86 | 0.90   |

SUMMARY OF ERRORS

1 FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

4 FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

| SECTION NUMBER         | CUMULATIVE DISTANCE | ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND |      |      |
|------------------------|---------------------|---|------|------|
|                        |                     | 10f   | 2f   | 0.2f |
| 100,000                | 0.                  | -1.2  | -0.4 | 0.8  |
| 518,000                | 418.                | -1.3  | -0.4 | 0.8  |
| 780,000                | 680.                | -1.5  | -0.5 | 0.9  |
| WEIGHTED AVG FOR REACH |                     | -1.3  | -0.4 | 0.8  |

18 FHF FOR THE REACH = 0.15 WITH 100.00 OF THE REACH WITHIN 0.5 FEET

19 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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