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 HFC2 RELEASE DATED NOV 76 UPDATED FEB1978  
 ERRCK CORR - 01,02  
 MODIFICATION - 50,51,52,53,54  
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*Final*

T1 HENDERSONVILLE, NC FIA STUDY BEC 9-25-79  
 T2 10 YEAR FLOOD  
 T3 SHEPHERD CREEK FLOOD PROFILES

| J1 | ICHECK                              | INQ   | NINV   | IDIR   | STRT    | METRIC | HVINS | Q   | WSEL  | FQ     |
|----|-------------------------------------|-------|--------|--------|---------|--------|-------|-----|-------|--------|
|    | 0.                                  | 2.    | 0.     | 0.     | J.J0453 | 0.     | 0.0   | 0.  | 0.0   | 0.0    |
| J2 | NPROF                               | IPLT  | PRFVS  | XSECV  | XSECH   | FN     | ALLDC | IBW | CHNIM | ITRACE |
|    | 0.                                  | 0.    | -1.    | 0.     | 0.      | 0.0    | 0.0   | 0.  | 0.    | 0.     |
| J3 | VARIABLE CODES FOR SUMMARY PRINTOUT |       |        |        |         |        |       |     |       |        |
|    | 150.00                              | 0.0   | 160.00 | 201.00 | 0.0     | 0.0    | 0.0   | 0.0 | 0.0   | 0.0    |
| DT | 5.                                  | 920.  | 1590.  | 1940.  | 2530.   | 1940.  | 0.    | 0.  | 0.    | 0.     |
| NC | 0.070                               | 0.100 | 0.060  | 0.1    | 0.5     |        |       |     |       |        |

|    |        |      |        |      |        |      |        |      |        |      |
|----|--------|------|--------|------|--------|------|--------|------|--------|------|
| X1 | 0.16   | 38.  | 501.   | 550. | 0.     | 0.   | 0.     | 0.0  | 0.0    | 0.   |
| GR | 2111.4 | 0.   | 2110.3 | 12.  | 2109.7 | 23.  | 2109.3 | 25.  | 2109.3 | 34.  |
| GR | 2110.1 | 43.  | 2109.0 | 56.  | 2108.7 | 89.  | 2107.9 | 118. | 2106.2 | 146. |
| GR | 2102.9 | 157. | 2102.9 | 171. | 2103.6 | 178. | 2103.6 | 234. | 2101.2 | 243. |
| GR | 2100.4 | 275. | 2099.8 | 293. | 2098.1 | 298. | 2097.0 | 323. | 2095.0 | 339. |
| GR | 2094.2 | 365. | 2093.9 | 386. | 2091.6 | 501. | 2088.4 | 511. | 2086.5 | 523. |
| GR | 2085.7 | 528. | 2085.7 | 535. | 2085.4 | 541. | 2086.6 | 548. | 2091.5 | 550. |
| GR | 2093.7 | 562. | 2094.9 | 718. | 2097.5 | 730. | 2100.0 | 744. | 2103.5 | 768. |
| GR | 2110.1 | 796. | 2110.4 | 814. | 2113.7 | 840. | 0.0    | 0.   | 0.0    | 0.   |

|    |      |      |      |    |       |      |        |      |        |        |
|----|------|------|------|----|-------|------|--------|------|--------|--------|
| X1 | 0.16 | 0.   | 0.   | 0. | 40.   | 40.  | 40.    | 0.0  | 0.0    | 0.     |
| SB | 1.25 | 1.60 | 3.00 | 0. | 17.00 | 2.00 | 309.00 | 2.68 | 2085.3 | 2085.3 |

|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| X1 | 0.16   | 44.    | 519.   | 553.   | 30.    | 30.    | 30.    | 0.0    | 0.0    | 0.     |
| X2 | 0.     | 0.0    | 1.     | 2093.6 | 2094.0 | 0.0    | 0.     | 0.0    | 0.0    | 0.     |
| BT | 39.0   | 0.0    | 2111.4 | 0.0    | 12.0   | 2110.3 | 0.0    | 23.0   | 2109.7 | 0.0    |
| BT | 25.0   | 2109.3 | 0.0    | 34.0   | 2109.3 | 0.0    | 43.0   | 2110.1 | 0.0    | 56.0   |
| BT | 2109.0 | 0.0    | 89.0   | 2108.7 | 0.0    | 118.0  | 2107.9 | 0.0    | 146.0  | 2106.2 |
| BT | 0.0    | 157.0  | 2102.9 | 0.0    | 171.0  | 2102.9 | 0.0    | 178.0  | 2103.6 | 0.0    |
| BT | 234.0  | 2103.6 | 0.0    | 243.0  | 2101.2 | 0.0    | 275.0  | 2100.4 | 0.0    | 293.0  |
| BT | 2099.8 | 0.0    | 298.0  | 2098.1 | 0.0    | 323.0  | 2097.0 | 0.0    | 339.0  | 2095.0 |
| BT | 0.0    | 365.0  | 2094.2 | 0.0    | 386.0  | 2093.9 | 0.0    | 419.0  | 2095.1 | 0.0    |
| BT | 452.0  | 2095.3 | 0.0    | 470.0  | 2094.8 | 0.0    | 478.0  | 2094.7 | 0.0    | 500.0  |
| BT | 2094.9 | 0.0    | 500.0  | 2096.5 | 0.0    | 562.0  | 2096.5 | 0.0    | 562.0  | 2095.3 |
| BT | 0.0    | 600.0  | 2095.4 | 0.0    | 650.0  | 2095.6 | 0.0    | 697.0  | 2096.7 | 0.0    |
| BT | 730.0  | 2097.5 | 0.0    | 744.0  | 2100.0 | 0.0    | 768.0  | 2103.5 | 0.0    | 796.0  |
| BT | 2110.1 | 0.0    | 814.0  | 2110.4 | 0.0    | 840.0  | 2113.7 | 0.0    | 0.0    | 0.0    |
| GR | 2111.4 | 0.     | 2110.3 | 12.    | 2109.7 | 23.    | 2109.3 | 25.    | 2109.3 | 34.    |
| GR | 2110.1 | 43.    | 2109.0 | 56.    | 2108.7 | 89.    | 2107.9 | 118.   | 2106.2 | 146.   |



SHEPHERD CREEK

SUMMARY PRINTOUT TABLE 150

| SECNO   | Q     | CWSEL  | DIFWSP | DIFWSX | DIFKWS | TCPWID | XLCH   |
|---------|-------|--------|--------|--------|--------|--------|--------|
| 0.160   | 920.  | 2091.6 | 0.0    | 0.0    | 0.0    | 51.71  | 0.0    |
| 0.160   | 1590. | 2093.2 | 1.5    | 0.0    | 0.0    | 135.79 | 0.0    |
| 0.160   | 1940. | 2093.7 | 0.6    | 0.0    | 0.0    | 172.89 | 0.0    |
| 0.160   | 2530. | 2094.4 | 0.7    | 0.0    | 0.0    | 298.74 | 0.0    |
| 0.160   | 920.  | 2091.8 | 0.0    | 0.2    | 0.0    | 61.96  | 40.00  |
| 0.160   | 1590. | 2093.4 | 1.5    | 0.2    | 0.0    | 147.80 | 40.00  |
| 0.160   | 1940. | 2094.0 | 0.6    | 0.2    | 0.0    | 214.72 | 40.00  |
| 0.160   | 2530. | 2094.7 | 0.7    | 0.2    | 0.0    | 339.00 | 40.00  |
| 0.160   | 920.  | 2091.9 | 0.0    | 0.0    | 0.0    | 34.69  | 30.00  |
| * 0.160 | 1590. | 2093.3 | 1.4    | -0.1   | 0.0    | 45.82  | 30.00  |
| 0.160   | 1940. | 2094.0 | 0.7    | 0.0    | 0.0    | 95.06  | 30.00  |
| 0.160   | 2530. | 2094.6 | 0.6    | -0.1   | 0.0    | 172.35 | 30.00  |
| 0.160   | 920.  | 2091.9 | 0.0    | 0.1    | 0.0    | 35.10  | 10.00  |
| 0.160   | 1590. | 2093.4 | 1.5    | 0.1    | 0.0    | 46.60  | 10.00  |
| 0.160   | 1940. | 2094.1 | 0.7    | 0.1    | 0.0    | 114.77 | 10.00  |
| 0.160   | 2530. | 2094.9 | 0.7    | 0.3    | 0.0    | 199.85 | 10.00  |
| 0.250   | 890.  | 2094.0 | 0.0    | 2.1    | 0.0    | 84.67  | 435.00 |
| 0.250   | 1540. | 2095.7 | 1.7    | 2.3    | 0.0    | 350.84 | 435.00 |
| 0.250   | 1900. | 2096.3 | 0.6    | 2.2    | 0.0    | 383.84 | 435.00 |
| 0.250   | 2465. | 2097.1 | 0.3    | 2.2    | 0.0    | 412.73 | 435.00 |
| 0.390   | 890.  | 2097.4 | 0.0    | 3.3    | 0.0    | 50.42  | 645.00 |
| 0.390   | 1540. | 2098.3 | 0.9    | 2.6    | 0.0    | 106.06 | 645.00 |
| * 0.390 | 1900. | 2098.8 | 0.6    | 2.5    | 0.0    | 333.30 | 645.00 |
| * 0.390 | 2465. | 2099.4 | 0.6    | 2.3    | 0.0    | 345.66 | 645.00 |
| 0.470   | 390.  | 2099.2 | 0.0    | 1.8    | 0.0    | 294.72 | 422.00 |
| 0.470   | 1540. | 2100.5 | 1.3    | 2.2    | 0.0    | 378.84 | 422.00 |
| 0.470   | 1900. | 2101.0 | 0.5    | 2.2    | 0.0    | 388.19 | 422.00 |
| 0.470   | 2465. | 2101.4 | 0.5    | 2.1    | 0.0    | 408.36 | 422.00 |
| 0.550   | 885.  | 2100.2 | 0.0    | 1.0    | 0.0    | 43.90  | 350.00 |
| 0.550   | 1520. | 2101.2 | 1.0    | 0.7    | 0.0    | 48.94  | 350.00 |
| 0.550   | 1875. | 2101.6 | 0.4    | 0.6    | 0.0    | 50.75  | 350.00 |
| 0.550   | 2420. | 2102.0 | 0.4    | 0.6    | 0.0    | 114.81 | 350.00 |
| 0.630   | 885.  | 2101.1 | 0.0    | 0.9    | 0.0    | 44.17  | 170.00 |
| 0.630   | 1520. | 2102.5 | 1.4    | 1.3    | 0.0    | 51.37  | 170.00 |
| 0.630   | 1875. | 2103.1 | 0.6    | 1.6    | 0.0    | 175.27 | 170.00 |
| 0.630   | 2420. | 2104.0 | 0.9    | 2.1    | 0.0    | 247.37 | 170.00 |

SEARCH OF ERRORS

CAUTION SECNO= 0.160 PROFILE= 2  
20 TRIALS OF EG NOT ENOUGH

CAUTION SECNO= 0.390 PROFILE= 3 CRITICAL DEPTH ASSUMED

THIS RUN EXECUTED 12/06/79 9:09:20

REC2 RELEASE DATED NOV 76 UPDATED FEB1978  
 ERRCR CORR - 01,02  
 MODIFICATION - 50,51,52,53,54

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

MEMPHIS CREEK

PRIMARY PRINTOUT TABLE 150

| SEGN  | XLCH | ELTRD  | ELLC   | ELMIN  | Q      | CKSEL   | GRINS | EG      | 10K*S  | VCH  | AREA    | •OIK   |
|-------|------|--------|--------|--------|--------|---------|-------|---------|--------|------|---------|--------|
| 0.160 | J.   | 0.0    | 0.0    | 2085.4 | 920.0  | 2091.64 | 0.0   | 2091.92 | 44.78  | 4.24 | 217.21  | 137.48 |
| 0.160 | J.   | 0.0    | 0.0    | 2085.4 | 1590.0 | 2093.16 | 0.0   | 2093.55 | 45.26  | 5.18 | 359.35  | 236.34 |
| 0.160 | J.   | 0.0    | 0.0    | 2085.4 | 1940.0 | 2093.74 | 0.0   | 2094.16 | 44.77  | 5.49 | 448.03  | 289.94 |
| 0.160 | J.   | 0.0    | 0.0    | 2085.4 | 2530.0 | 2094.43 | 0.0   | 2094.88 | 45.25  | 5.90 | 611.34  | 376.09 |
| 0.160 | J.   | 0.0    | 0.0    | 2085.4 | 920.0  | 2091.83 | 0.0   | 2092.09 | 39.04  | 4.07 | 227.71  | 147.24 |
| 0.160 | J.   | 0.0    | 0.0    | 2085.4 | 1590.0 | 2093.37 | 0.0   | 2093.72 | 38.87  | 4.92 | 390.06  | 255.02 |
| 0.160 | J.   | 0.0    | 0.0    | 2085.4 | 1940.0 | 2093.96 | 0.0   | 2094.33 | 38.05  | 5.17 | 491.60  | 314.48 |
| 0.160 | J.   | 0.0    | 0.0    | 2085.4 | 2530.0 | 2094.67 | 0.0   | 2095.05 | 37.24  | 5.47 | 690.33  | 414.57 |
| 0.160 | J.   | 2094.0 | 2093.6 | 2084.9 | 920.0  | 2091.87 | 0.0   | 2092.27 | 53.38  | 5.09 | 181.19  | 125.92 |
| 0.160 | J.   | 2094.0 | 2093.6 | 2084.9 | 1590.0 | 2093.29 | 0.0   | 2094.03 | 77.91  | 6.93 | 238.52  | 180.14 |
| 0.160 | J.   | 2094.0 | 2093.6 | 2084.9 | 1940.0 | 2093.58 | 0.0   | 2094.86 | 82.99  | 7.57 | 280.97  | 212.95 |
| 0.160 | J.   | 2094.0 | 2093.6 | 2084.9 | 2530.0 | 2094.60 | 0.0   | 2095.72 | 99.77  | 8.75 | 364.79  | 253.29 |
| 0.160 | J.   | 0.0    | 0.0    | 2084.9 | 920.0  | 2091.93 | 0.0   | 2092.32 | 51.87  | 5.04 | 183.04  | 127.75 |
| 0.160 | J.   | 0.0    | 0.0    | 2084.9 | 1590.0 | 2093.39 | 0.0   | 2094.11 | 74.38  | 6.82 | 243.13  | 184.36 |
| 0.160 | J.   | 0.0    | 0.0    | 2084.9 | 1940.0 | 2094.12 | 0.0   | 2094.55 | 77.44  | 7.39 | 294.73  | 220.45 |
| 0.160 | J.   | 0.0    | 0.0    | 2084.9 | 2530.0 | 2094.87 | 0.0   | 2095.83 | 84.28  | 8.22 | 414.66  | 275.59 |
| 0.250 | 435. | 0.0    | 0.0    | 2086.9 | 890.0  | 2094.02 | 0.0   | 2094.39 | 43.26  | 4.89 | 202.17  | 135.32 |
| 0.250 | 435. | 0.0    | 0.0    | 2086.9 | 1540.0 | 2095.70 | 0.0   | 2095.93 | 25.27  | 4.54 | 625.99  | 336.32 |
| 0.250 | 435. | 0.0    | 0.0    | 2086.9 | 1900.0 | 2096.34 | 0.0   | 2096.51 | 19.14  | 4.21 | 867.93  | 434.32 |
| 0.250 | 435. | 0.0    | 0.0    | 2086.9 | 2465.0 | 2097.11 | 0.0   | 2097.25 | 15.45  | 4.04 | 1174.26 | 627.10 |
| 0.390 | 645. | 0.0    | 0.0    | 2090.8 | 890.0  | 2097.37 | 0.0   | 2097.85 | 65.75  | 5.58 | 165.46  | 109.76 |
| 0.390 | 645. | 0.0    | 0.0    | 2090.8 | 1540.0 | 2098.25 | 0.0   | 2099.16 | 100.76 | 7.80 | 233.62  | 153.42 |
| 0.390 | 645. | 0.0    | 0.0    | 2090.8 | 1900.0 | 2098.80 | 0.0   | 2099.71 | 94.50  | 8.07 | 354.44  | 195.45 |
| 0.390 | 645. | 0.0    | 0.0    | 2090.8 | 2465.0 | 2099.36 | 0.0   | 2100.15 | 84.40  | 8.11 | 544.32  | 268.31 |
| 0.470 | 422. | 0.0    | 0.0    | 2091.3 | 890.0  | 2099.19 | 0.0   | 2099.41 | 23.15  | 3.94 | 320.00  | 184.98 |
| 0.470 | 422. | 0.0    | 0.0    | 2091.3 | 1540.0 | 2100.49 | 0.0   | 2100.64 | 16.40  | 3.80 | 771.31  | 380.31 |
| 0.470 | 422. | 0.0    | 0.0    | 2091.3 | 1900.0 | 2100.96 | 0.0   | 2101.10 | 15.35  | 3.84 | 952.93  | 484.96 |
| 0.470 | 422. | 0.0    | 0.0    | 2091.3 | 2465.0 | 2101.42 | 0.0   | 2101.57 | 16.81  | 4.18 | 1135.38 | 601.27 |
| 0.550 | 350. | 0.0    | 0.0    | 2094.5 | 885.0  | 2100.22 | 0.0   | 2100.69 | 50.76  | 5.46 | 162.10  | 124.22 |
| 0.550 | 350. | 0.0    | 0.0    | 2094.5 | 1520.0 | 2101.22 | 0.0   | 2102.04 | 75.38  | 7.30 | 208.28  | 175.07 |
| 0.550 | 350. | 0.0    | 0.0    | 2094.5 | 1975.0 | 2101.57 | 0.0   | 2102.64 | 91.80  | 8.30 | 226.00  | 195.69 |
| 0.550 | 350. | 0.0    | 0.0    | 2094.5 | 2420.0 | 2101.98 | 0.0   | 2103.46 | 119.30 | 9.77 | 255.98  | 221.56 |

| S/CNO | ALCH | ELTRD | ELLC | ELMIN  | Q      | CWSEL   | CRWS | EG      | IOK*5 | VCH  | AREA   | .01K   |
|-------|------|-------|------|--------|--------|---------|------|---------|-------|------|--------|--------|
| J.630 | 170. | 0.0   | 0.0  | 2095.3 | 885.0  | 2101.08 | 0.0  | 2101.53 | 48.81 | 5.38 | 164.42 | 126.67 |
| J.630 | 170. | 0.0   | 0.0  | 2095.3 | 1520.0 | 2102.49 | 0.0  | 2103.16 | 56.02 | 6.54 | 232.24 | 203.08 |
| J.630 | 170. | 0.0   | 0.0  | 2095.3 | 1875.0 | 2103.13 | 0.0  | 2103.88 | 56.47 | 6.98 | 306.04 | 249.51 |
| J.630 | 170. | 0.0   | 0.0  | 2095.3 | 2420.0 | 2104.04 | 0.0  | 2104.77 | 48.60 | 7.12 | 505.86 | 347.13 |

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 REC 2 RELEASE DATED NOV 76 UPDATED FEB1978  
 ERROR CORR - 01,02  
 MODIFICATION - 50,51,52,53,54  
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T1 HENDERSONVILLE, NC FIA STUDY REC 9-25-79 *Final*  
 T2 100 YEAR FLOOD  
 T3 SHEPHERD CREEK FLOOD PROFILES

|    |        |     |      |      |         |        |       |    |         |     |
|----|--------|-----|------|------|---------|--------|-------|----|---------|-----|
| J1 | ICHECK | INQ | NINV | IDIR | STRT    | METRIC | HVINS | Q  | WSEL    | FQ  |
|    | 0.     | 4.  | 0.   | 0.   | 0.00453 | 0.     | 0.0   | 0. | 2093.70 | 0.0 |

|    |       |       |       |       |       |     |       |     |       |        |
|----|-------|-------|-------|-------|-------|-----|-------|-----|-------|--------|
| J2 | NPROF | IPL0T | PRFVS | XSECV | XSECH | FN  | ALLDC | IBW | CHNIM | ITRACE |
|    | 0.    | 0.    | -1.   | 0.    | 0.    | 0.0 | 0.0   | 0.  | 0.    | 0.     |

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

|  |        |     |        |     |     |     |     |     |     |     |
|--|--------|-----|--------|-----|-----|-----|-----|-----|-----|-----|
|  | 110.00 | 0.0 | 200.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|--|--------|-----|--------|-----|-----|-----|-----|-----|-----|-----|

|    |       |       |       |       |       |       |        |        |     |     |
|----|-------|-------|-------|-------|-------|-------|--------|--------|-----|-----|
| OT | 5.    | 920.  | 1590. | 1940. | 2530. | 1940. | 0.     | 0.     | 0.  | 0.  |
| NC | 0.070 | 0.100 | 0.160 | 0.1   | 0.5   |       |        |        |     |     |
| ET | 0.    | 0.0   | 0.0   | 0.0   | 0.0   | 7.11  | 490.00 | 560.00 | 0.0 | 0.0 |

|    |        |      |        |      |        |      |        |        |        |      |
|----|--------|------|--------|------|--------|------|--------|--------|--------|------|
| X1 | 0.16   | 38.  | 501.   | 500. | 0.     | 0.   | 0.     | 0.0    | 0.0    | 0.   |
| GR | 2111.4 | 0.   | 2110.3 | 12.  | 2109.7 | 23.  | 2109.3 | 25.    | 2109.3 | 34.  |
| GP | 2110.1 | 43.  | 2109.0 | 06.  | 2108.7 | 89.  | 2107.9 | 118.   | 2106.2 | 146. |
| GR | 2102.9 | 157. | 2102.9 | 171. | 2103.6 | 178. | 2103.6 | 234.   | 2101.2 | 243. |
| GR | 2100.4 | 275. | 2099.8 | 293. | 2098.1 | 298. | 2097.0 | 323.   | 2095.0 | 339. |
| GR | 2094.2 | 365. | 2093.9 | 386. | 2091.6 | 501. | 2088.4 | 511.   | 2086.5 | 523. |
| GR | 2085.7 | 528. | 2085.7 | 535. | 2085.4 | 541. | 2086.6 | 548.   | 2091.5 | 550. |
| GR | 2093.7 | 562. | 2094.9 | 718. | 2097.5 | 730. | 2100.0 | 744.   | 2103.5 | 768. |
| GP | 2110.1 | 796. | 2110.4 | 814. | 2113.7 | 840. | 0.0    | 0.     | 0.0    | 0.   |
| ET | 0.     | 0.0  | 0.0    | 0.0  | 0.0    | 7.11 | 490.00 | 560.00 | 0.0    | 0.0  |

|    |      |      |      |     |       |      |        |        |        |        |
|----|------|------|------|-----|-------|------|--------|--------|--------|--------|
| X1 | 0.16 | 0.   | 0.   | 0.  | 40.   | 40.  | 40.    | 0.0    | 0.0    | 0.     |
| SD | 1.25 | 1.60 | 3.00 | 0.  | 17.00 | 2.00 | 309.00 | 2.68   | 2085.3 | 2085.3 |
| ET | 0.   | 0.0  | 0.0  | 0.0 | 0.0   | 7.11 | 490.00 | 560.00 | 0.0    | 0.0    |

|    |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| X1 | 0.16   | 44.    | 519.   | 553.   | 30.    | 30.    | 30.    | 0.0    | 0.0    | 0.     |
| X2 | 0.     | 0.0    | 1.     | 2093.6 | 2094.0 | 0.0    | 0.     | 0.0    | 0.0    | 0.     |
| BT | 39.0   | 0.0    | 2111.4 | 0.0    | 12.0   | 2110.3 | 0.0    | 23.0   | 2109.7 | 0.0    |
| BT | 25.0   | 2109.3 | 0.0    | 34.0   | 2109.3 | 0.0    | 43.0   | 2110.1 | 0.0    | 56.0   |
| BT | 2109.0 | 0.0    | 89.0   | 2103.7 | 0.0    | 118.0  | 2107.9 | 0.0    | 146.0  | 2106.2 |
| BT | 0.0    | 157.0  | 2102.9 | 0.0    | 171.0  | 2102.9 | 0.0    | 178.0  | 2103.6 | 0.0    |
| BT | 234.0  | 2103.6 | 0.0    | 243.0  | 2101.2 | 0.0    | 275.0  | 2100.4 | 0.0    | 293.0  |
| BT | 2090.8 | 0.0    | 298.0  | 2098.1 | 0.0    | 323.0  | 2097.0 | 0.0    | 339.0  | 2095.0 |
| BT | 0.0    | 365.0  | 2094.2 | 0.0    | 386.0  | 2093.9 | 0.0    | 419.0  | 2095.1 | 0.0    |
| BT | 462.0  | 2095.8 | 0.0    | 470.0  | 2094.8 | 0.0    | 478.0  | 2094.7 | 0.0    | 500.0  |
| BT | 2094.9 | 0.0    | 500.0  | 2096.5 | 0.0    | 562.0  | 2096.5 | 0.0    | 562.0  | 2095.0 |
| BT | 0.0    | 600.0  | 2095.4 | 0.0    | 650.0  | 2095.6 | 0.0    | 697.0  | 2096.7 | 0.0    |
| BT | 730.0  | 2097.5 | 0.0    | 740.0  | 2100.0 | 0.0    | 768.0  | 2103.5 | 0.0    | 796.0  |
| BT | 2110.1 | 0.0    | 814.0  | 2110.4 | 0.0    | 840.0  | 2113.7 | 0.0    | 0.0    | 0.0    |



THIS RUN EXECUTED 04/14/80 15:04:54

\*\*\*\*\*  
 RELEASE DATED NOV 76 UPDATED FEB 1978  
 ERROR CORR 11,92  
 MODIFICATION - 57,511,52,57,54  
 \*\*\*\*\*

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

EPHERD CREEK

PRIMARY PRINTOUT TABLE 110

| SECR  | CMSL    | DIFRS | EG      | TOPWD | PERENC | STENCL | STENCR | STCHL | STCHR | QLOB | QCH   | QROB |
|-------|---------|-------|---------|-------|--------|--------|--------|-------|-------|------|-------|------|
| 0.160 | 2092.70 | 0.0   | 2094.14 | 166.  | 0.     | 0.     | 0.     | 501.  | 550.  | 164. | 1762. | 14.  |
| 0.160 | 2092.96 | 0.26  | 2094.44 | 76.   | 70.    | 490.   | 560.   | 501.  | 550.  | 54.  | 1866. | 20.  |
| 0.160 | 2092.93 | 0.0   | 2094.31 | 208.  | 0.     | 0.     | 0.     | 501.  | 550.  | 201. | 1721. | 18.  |
| 0.160 | 2094.17 | 0.24  | 2094.62 | 78.   | 70.    | 490.   | 560.   | 501.  | 550.  | 59.  | 1859. | 23.  |
| 0.160 | 2093.95 | 0.0   | 2094.84 | 89.   | 0.     | 0.     | 0.     | 519.  | 553.  | 1.   | 1903. | 36.  |
| 0.160 | 2094.35 | 0.39  | 2095.14 | 70.   | 70.    | 490.   | 560.   | 519.  | 553.  | 8.   | 1901. | 31.  |
| 0.160 | 2094.38 | 0.0   | 2094.92 | 109.  | 0.     | 0.     | 0.     | 519.  | 553.  | 3.   | 1893. | 44.  |
| 0.160 | 2094.44 | 0.36  | 2095.21 | 77.   | 70.    | 490.   | 550.   | 519.  | 553.  | 12.  | 1896. | 32.  |
| 0.250 | 2096.33 | 0.0   | 2096.57 | 384.  | 0.     | 0.     | 0.     | 364.  | 400.  | 674. | 1103. | 123. |
| 0.250 | 2096.80 | 0.47  | 2097.24 | 80.   | 80.    | 340.   | 420.   | 364.  | 400.  | 174. | 1594. | 132. |
| 0.350 | 2098.80 | 0.0   | 2099.71 | 333.  | 0.     | 0.     | 0.     | 364.  | 400.  | 137. | 1693. | 70.  |
| 0.390 | 2099.53 | 0.73  | 2100.24 | 80.   | 80.    | 340.   | 420.   | 364.  | 400.  | 112. | 1688. | 100. |
| 0.470 | 2100.96 | 0.0   | 2101.10 | 388.  | 0.     | 0.     | 0.     | 364.  | 400.  | 731. | 1036. | 132. |
| 0.470 | 2101.57 | 0.61  | 2101.96 | 80.   | 80.    | 340.   | 420.   | 364.  | 400.  | 190. | 1570. | 140. |
| 0.550 | 2101.57 | 0.0   | 2102.64 | 51.   | 0.     | 0.     | 0.     | 198.  | 253.  | 0.   | 1875. | 2.   |
| 0.550 | 2102.66 | 1.09  | 2103.33 | 62.   | 80.    | 190.   | 270.   | 198.  | 253.  | 3.   | 1872. | 0.   |
| 0.630 | 2103.13 | 0.0   | 2103.88 | 175.  | 0.     | 0.     | 0.     | 198.  | 253.  | 2.   | 1855. | 18.  |
| 0.630 | 2103.46 | 0.33  | 2104.14 | 62.   | 80.    | 190.   | 270.   | 198.  | 253.  | 3.   | 1872. | 0.   |

SUMMARY OF ERRORS

SECTION = 0.390 PROFILE = 1 CRITICAL DEPTH ASSUMED  
 SECTION = 0.390 PROFILE = 1 MINIMUM SPECIFIC ENERGY

ROADWAY DATA, SHEPHERD CREEK  
 FILE NO. 2

| STATION | WIDTH<br>(FT) | FLOODWAY        |      | MEAN<br>VELOCITY | WATER SURFACE ELEVATION |                     | DIFFERENCE |
|---------|---------------|-----------------|------|------------------|-------------------------|---------------------|------------|
|         |               | SECTION<br>AREA | AREA |                  | WITH<br>FLOODWAY        | WITHOUT<br>FLOODWAY |            |
| 0.160   | 70.           | 371.            | 5.2  | 2094.0           | 2093.7                  | 0.3                 |            |
| 0.160   | 70.           | 386.            | 5.7  | 2094.2           | 2093.9                  | 0.3                 |            |
| 0.160   | 70.           | 289.            | 6.7  | 2094.3           | 2094.0                  | 0.3                 |            |
| 0.160   | 70.           | 266.            | 6.6  | 2094.4           | 2094.1                  | 0.3                 |            |
| 0.250   | 80.           | 423.            | 4.5  | 2096.8           | 2096.3                  | 0.5                 |            |
| 0.390   | 80.           | 337.            | 5.8  | 2099.5           | 2098.8                  | 0.7                 |            |
| 0.470   | 80.           | 453.            | 4.2  | 2101.6           | 2101.0                  | 0.6                 |            |
| 0.550   | 80.           | 288.            | 6.5  | 2102.7           | 2101.6                  | 1.1                 |            |
| 0.630   | 80.           | 289.            | 6.5  | 2103.5           | 2103.1                  | 0.4                 |            |

SHEPHERD CREEK

12-6-79

HENDERSONVILLE, NC FIA ST

| MILE  | 500 YEAR FLOOD |        | 100 YEAR FLOOD |        | 50 YEAR FLOOD |        | 10 YEAR FLOOD |        |
|-------|----------------|--------|----------------|--------|---------------|--------|---------------|--------|
|       | Q              | ELEV   | Q              | ELEV   | Q             | ELEV   | Q             | ELEV   |
| 0.160 | 2530.          | 2094.4 | 1940.          | 2093.7 | 1590.         | 2093.2 | 920.          | 2091.6 |
| 0.160 | 2530.          | 2094.9 | 1940.          | 2094.1 | 1590.         | 2093.4 | 920.          | 2091.9 |
| 0.250 | 2465.          | 2097.1 | 1900.          | 2096.3 | 1540.         | 2095.7 | 890.          | 2094.0 |
| 0.390 | 2465.          | 2099.4 | 1900.          | 2098.8 | 1540.         | 2098.3 | 890.          | 2097.4 |
| 0.470 | 2465.          | 2101.4 | 1900.          | 2101.0 | 1540.         | 2100.5 | 890.          | 2099.2 |
| 0.550 | 2420.          | 2102.0 | 1875.          | 2101.6 | 1520.         | 2101.2 | 885.          | 2100.2 |
| 0.630 | 2420.          | 2104.0 | 1875.          | 2103.1 | 1520.         | 2102.5 | 885.          | 2101.1 |

These elevations were computed on the later vers of the HEC-2 Backwater Program

| 111.  | 2% (50 YR) | ELEV   |
|-------|------------|--------|
| 0.0   | Q          | 2092.9 |
| 0.160 | 1,590      | 2093.2 |
| 0.160 | 1,590      | 2094.6 |
| 0.25  | 1,540      | 2096.0 |
| 0.39  | 1,540      | 2098.0 |
| 0.47  | 1,540      | 2100.5 |
| 0.55  | 1,520      | 2101.2 |
| 0.63  | 1,520      | 2102.5 |

These elevations were NOT used on F

6-20-84