FLOOD CONTROL
DISTRICT
of
MARICOPA
COUNTY
1959

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CAVE CREEK FLOODPLAIN DELINEATION

Cave Buttes Dam to the Arizona Canal Diversion Channel

FCD 88-56

FINAL HYDRAULICS REPORT

Book 2 of 2

March, 1991

Burgess & Niple, Inc.
Engineers and Architects

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

CAVE CREEK AND EAST FORK OF CAVE CREEK
FLOODPLAIN DELINEATION STUDY
ARIZONA CANAL DIVERSION CHANNEL TO CAVE BUTTE DAM

FINAL HYDRAULICS REPORT

BOOK 2 OF 2

FEMA APPROVAL 1991

STUDY DATE 1990

MAPPING DATE 1991

Prepared By

BURGESS & NIPLE, INC.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
19705
JAMES E.
MISCHLER
Date Signed 3/18/91
ARIZONA, U.S.A.

MARCH 1991

APPENDIX "C"

SUBCRITICAL HEC-2 OUTPUT, ACDC TO CAVE BUTTE DAM

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  DEVELOPED BY THE COE                             *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  RUN DATE     3/12/91   TIME    7: 3:21           *
*****************************************************
```


```
*************************************
*  DODSON & ASSOCIATES, INC.        *
*  HYDROLOGIST AND CIVIL ENGINEERS  *
*  5629 FM 1960 WEST SUITE 314      *
*  HOUSTON, TEXAS  77069            *
*  (713) 440-3787 Fax (713) 440-4742 *
*************************************
```


```
X     X  XXXXXXX   XXXXX             XXXXX
X     X  X        X    X            X    X
X     X  X        X                      X
XXXXXXX  XXXX     X         XXXXX   XXXXX
X     X  X        X                 X
X     X  X        X    X            X
X     X  XXXXXXX   XXXXX            XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 3/12/91 7: 3:21

```
**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          10 YEAR        J. MISCHLER

        CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
        ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
        AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
        ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
        BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
        DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
        FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
        THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
        AND 100 YEAR FLOODS.


        SUBCRITICAL RUN FROM ACDC TO CAVE BUTTE DAM

        FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL
        RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL.


        FILE LAST MODIFIED 5/29/90


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2.                         0.0005                                1216.17

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1.                 -1.


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

   38.      42.       1.       53.      54.       4.       8.       43.      10.      51.
   46.      40.      41.                110.
```

```
NC    0.015     0.015     0.015       0.1       0.3
QT       3.    10300.    16100.    18500.

        THE FOLLOWING 3 SECTIONS ARE IN THE ACDC SPACED AT 500 FEET TO
        ESTABLISH A STARTING ELEVATION AND DOWNSTREAM HYDRAULIC JUMP ELEVATION.
        THE ACDC HAS BEEN DESIGNED BY THE COE TO CONTAIN THE ENTIRE 100 YEAR
        FLOOD WITHIN THE CONCRETE LINED CHANNEL.  THE 100 YEAR FLOOD ELEVATION
        PROVIDED BY THE COE FOR THEIR ACDC CHANNEL WILL BE PLOTTED AS BACKWATER
        ON THE CAVE CREEK WASH PROFILE.  THE LOCATION OF THE HYDRAULIC JUMP WILL
        NOT BE SHOWN.

X1   15.015        5.     9945.    10055.
GR   1228.3     9945.   1206.79    9945.1   1205.69    10000.   1206.79    10055.   1226.29    10055.1

X1   15.109                                   500.       500.       500.                0.25

X1   15.204                                   500.       500.       500.                0.25

        15.310 IS THE FIRST SECTION IN CAVE CREEK WASH.  THE CONFLUENCE OCCURS
        AT RM 15.263

X1   15.310        5.    9967.5   10032.6     560.       560.       560.
GR   1229.5    9967.5   1207.53    9967.6   1206.88    10000.   1207.53    10032.5   1230.    10032.6

X1   15.454                                   760.       760.       760.                0.38

X1   15.530        5.    9941.5   10060.5     400.       400.       400.
GR   1237.5    9941.5   1226.98    9962.5   1226.2     10000.   1226.95    10037.5   1238.45  10060.5

X1   15.680                                   792.       792.       792.                3.35

X1   15.878        5.     9938.    10062.    1045.      1045.      1045.
GR   1244.7     9938.   1234.71     9958.   1233.87    10000.   1234.71    10042.   1244.71    10062.

        PEORIA AVENUE  (SPECIAL BRIDGE)

X1   15.920                                   225.       225.       225.                0.97

SB      0.9      1.56        3.      100.    82.32        6.      1447.       1.84   1235.45   1235.07
X1   15.940                                   100.       100.       100.                0.38

        ELTRD IS 1251.1+2.5HV = 1253.6

X2                           1.    1249.6   1253.6                          1.33
```

```
X1   16.023       7.     9946.    10053.      441.      441.      441.
GR   1252.5    9946.   1251.45    9946.8   1237.95     9975.   1237.45    10000.   1237.95    10025.
GR   1250.9   10052.2  1251.95    10053.

X1   16.148                                  660.      660.      660.                 2.79

X1   16.264                                  612.      612.      612.                 2.59

X1   16.373                                  576.      576.      576.                 2.43

QT      3.    10200.   15700.    18000.
X1   16.481       6.     9945.    10052.      570.      570.      570.
GR   1261.2    9945.   1260.17    9945.8   1248.17     9971.   1247.59    10000.   1248.17    10029.
GR   1259.7   10052.

X1   16.601       7.     9945.    10052.      634.      634.      634.                 2.67
GR   1261.2    9945.   1260.17    9945.8   1248.17     9971.   1247.59    10000.   1248.17    10029.
GR   1259.7   10052.    1261.3    10087.

X1   16.694       7.     9945.    10056.      491.      491.      491.
GR   1263.9    9945.   1262.92    9945.8   1252.92     9967.   1252.26    10000.   1252.92    10033.
GR   1263.4   10055.2  1264.42    10056.

X1   16.823                                  681.      681.      681.                 2.88

X1   16.902       9.     9940.    10063.      417.      417.      417.
GR   1268.8    9940.   1257.58    9962.5   1256.93    9994.5   1256.19     9996.   1256.19    10004.
GR   1256.9   10005.5  1257.58   10037.5   1269.33   10062.2   1270.33    10063.

        CACTUS ROAD  (SPECIAL BRIDGE)


X1   16.970       8.     9938.3   10064.7      359.      359.      359.
GR   1269.3    9938.3  1259.09    9958.7   1258.43    9991.2   1256.36     9996.   1256.36    10004.
GR   1258.4   10007.9  1259.09   10041.3   1270.78   10064.7

SB      0.9      1.56       3.       100.     82.57        6.      1513.      1.61   1258.71    1258.33
X1   16.988       8.     9938.3   10063.9       90.       90.       90.

        ELTRD IS 1275.25+2.6HV = 1277.8

X2                          1.    1273.75    1277.8
GR   1269.7    9938.3  1259.48    9958.7   1258.83    9991.1   1256.41     9996.   1256.41    10004.
GR   1258.8   10008.9  1259.48   10041.3   1270.17   10063.9

X1   17.061       8.     9938.3   10064.7      380.      380.      380.
GR   1271.3    9938.3  1261.1     9958.7   1260.51    9988.2   1256.61     9996.   1256.61    10004.
GR   1260.5   10011.8  1261.1    10041.3   1271.79   10064.7

        UPSTREAM EDGE OF SEDIMENT BASIN OUTFLOW SPILLWAY.
```

```
X1   17.206       4.     9875.    10125.      769.      769.      769.
GR    1279.    9875.     1267.     9900.     1267.    10100.     1279.    10125.
```

SECTION IN SEDIMENTATION BASIN. X5 CARD BASED ON ELEVATION OUTFLOW TABLE PROVIDED BY THE CORPS OF ENGINEERS.

```
NC    0.03      0.03      0.03
X1   17.360       12.     9480.    10427.      820.      830.      813.
X5       3.   1273.2    1275.2    1276.3
GR   1282.2     9480.    1280.6     9497.    1257.8     9610.    1257.2     9632.    1257.4     9877.
GR   1256.7     9974.    1256.9    10000.    1257.7    10092.    1257.7    10263.    1258.2    10281.
GR   1281.9    10406.    1281.8    10427.

GT       3.     8900.    13400.    15400.
X1   17.494       14.     9904.    10062.      750.      670.      707.
GR   1284.9     9809.    1279.1     9904.    1273.4     9967.    1270.3    10000.    1272.1    10008.
GR   1278.5    10062.    1278.8    10087.    1276.1    10109.    1278.7    10161.    1279.5    10167.
GR   1281.5    10304.    1281.6    10392.    1282.5    10461.    1283.1    10472.

NC    0.04      0.04      0.04
X1   17.588       25.     9982.    10193.      440.      560.      496.
GR   1291.4     9666.    1290.3     9746.    1275.6     9817.    1275.2     9835.    1273.5     9854.
GR   1277.8     9873.    1279.7     9889.    1277.3     9896.    1278.2     9909.    1281.6     9922.
GR   1281.9     9939.    1282.2     9964.    1278.1     9982.    1269.6     9992.    1270.6    10000.
GR   1270.9    10009.    1272.6    10014.    1273.6    10039.    1273.6    10079.    1271.2    10144.
GR   1271.2    10170.    1276.4    10193.    1290.5    10264.    1291.3    10328.     1291.    10495.

X1   17.662       23.     9941.    10130.      380.      400.      391.
GR   1293.1     9731.    1293.1     9781.    1291.6     9791.    1282.7     9835.    1278.1     9844.
GR   1279.2     9871.    1277.3     9911.    1276.4     9941.    1272.5     9986.    1271.6    10000.
GR   1274.6    10016.    1277.5    10033.    1278.8    10063.    1278.9    10086.    1276.8    10099.
GR   1275.7    10111.    1281.6    10130.    1285.2    10161.    1293.1    10208.     1294.    10221.
GR   1293.7    10281.     1294.    10400.    1294.5    10432.

X1   17.783       18.     9921.    10064.      540.      500.      639.
GR   1295.2     9812.     1294.     9837.    1291.3     9861.    1286.9     9895.    1280.5     9921.
GR   1276.8     9938.    1278.3     9954.    1277.6     9973.    1275.4    10000.    1276.3    10019.
GR   1277.4    10033.    1277.7    10045.    1281.1    10064.    1281.3    10074.    1284.6    10097.
GR   1289.8    10122.    1291.5    10143.    1291.9    10153.

X1   17.932       23.     9956.    10066.      790.      780.      787.
GR   1294.8     9675.    1294.7     9732.    1295.5     9750.    1293.6     9766.    1297.5     9792.
GR   1297.5     9837.    1298.3     9869.    1291.9     9896.    1289.7     9956.    1283.6     9966.
GR   1283.5     9971.    1277.9     9986.    1278.2    10000.    1278.2    10006.    1279.5    10008.
GR   1279.9    10022.    1280.2    10032.    1285.5    10054.    1290.2    10066.    1290.6    10083.
GR   1298.5    10131.    1299.7    10159.    1299.7    10193.
```

THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE, THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS. ENDS OF THE SECTIONS ARE ARTIFICIALLY EXTENDED. BT'S ARE RAISED 0.5' FROM CENTER-

LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.

```
NC    0.035     0.035     0.025       0.3       0.5
X1   18.042        8.      9951.     10049.      620.      550.      581.                2.4
GR    1305.     9951.    1283.4      9952.    1282.9     9979.    1279.9     9980.    1279.9    10020.
GR   1281.9    10021.    1284.2     10048.     1305.    10049.

SB    1.05      1.56        3.                   75.        4.     1059.      0.81    1280.2    1279.9
NC    0.03      0.03     0.025
X1   18.061                                      101.      101.      101.                0.8
```

ELTRO IS 1298.4+3.2HV = 1301.6

```
X2                          1.     1293.2    1301.6
BT       4.     9951.     1305.        0.     9952.    1298.4        0.    10048.    1298.4        0.
BT   10049.     1305.        0.

NC    0.035     0.035     0.035
X1   18.081       11.      9942.     10045.       80.      130.      106.
GR   1300.5     9819.    1300.2      9866.    1298.2     9899.    1286.6     9942.    1282.7     9960.
GR   1281.4    10000.    1281.1     10008.    1282.7    10030.    1284.9    10045.    1297.3    10088.
GR   1300.2    10112.

NC                                 0.1       0.3
X1   18.174       29.      9919.     10073.      500.      490.      491.
GR   1303.6     9673.    1304.6      9713.    1307.3     9757.    1302.5     9801.     1302.     9850.
GR    1288.     9904.    1287.3      9915.    1288.7     9919.     1284.     9927.    1283.5     9956.
GR   1282.6     9975.    1283.5      9985.    1281.8     9992.    1281.7    10000.     1282.    10006.
GR   1282.3    10011.    1282.7     10020.    1294.6    10073.     1297.    10093.    1296.2    10113.
GR   1293.7    10142.    1293.7     10182.    1296.8    10236.    1299.3    10270.    1298.9    10295.
GR    1298.    10340.    1299.8     10364.     1298.    10396.    1301.1    10478.

X1   18.269       12.      9942.     10060.      500.      500.      502.
GR   1303.8     9868.    1288.1      9928.    1288.4     9942.    1285.3     9952.    1283.8     9979.
GR   1283.8    10000.    1283.8     10010.    1285.6    10023.    1292.4    10060.     1294.    10071.
GR   1303.2    10130.    1303.7     10144.

X1   18.362       20.      9942.     10060.      490.      510.      491.
GR   1315.5     9728.    1315.4      9758.    1315.8     9780.    1310.6     9807.    1307.1     9862.
GR   1298.6     9905.     1290.      9942.    1287.8     9952.     1288.     9967.    1286.1     9971.
GR   1285.3    10000.    1286.8     10022.    1286.8    10036.    1290.6    10060.    1303.8    10124.
GR   1307.7    10151.    1307.5     10169.    1306.8    10183.    1308.1    10240.    1308.8    10283.
```

DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
ENDS AND EMBANKMENT SLOPES (NO WINGWALLS).

```
X1   18.445       13.      9992.     10005.      470.      460.      440.
X3      10.                                                                 1297.     1297.
GR   1315.1     9796.    1306.2      9880.    1300.     9920.    1299.5     9978.     1290.     9992.
GR   1287.3    10000.     1290.     10005.    1300.    10040.     1302.    10060.     1303.    10097.
GR    1305.    10200.    1305.6     10310.    1309.4    10330.
```

```
SB     0.9      2.34      3.0       0.      6.11       1.0      33.2       0.    1287.7    1287.4
X1  18.456                                  60.       60.       60.                 0.4

       ELTRD IS 1198.8+0.7HV = 1199.5

X2                          1.    1294.2    1299.5
X3     10.                                                            1298.8    1298.8
BT     10.     9796.    1315.5       0.     9880.    1306.6       0.    9928.    1301.9       0.
BT   9991.    1299.1       0.    10000.    1298.8       0.   10046.    1301.9       0.   10097.
BT  1303.4       0.   10200.    1305.4       0.   10310.    1306.       0.   10330.    1309.8
BT      0.

X1  18.545       21.    9951.    10058.     440.     480.     466.
GR  1324.2     9716.    1323.1     9748.   1324.4    9765.   1321.9    9790.    1318.3    9810.
GR   1317.     9839.    1306.7     9889.   1294.1    9951.   1291.5    9972.    1289.3    9993.
GR  1289.7    10000.    1289.7    10018.   1290.5   10040.   1293.8   10058.    1298.8   10073.
GR  1299.8    10094.    1303.4    10108.   1303.9   10121.    1303.   10135.    1310.1   10182.
GR  1310.2    10194.

       UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
       45 DEGREE WINGWALLS.

X1  18.575       21.    9972.    10000.     160.     160.     160.
X3     10.                                                            1297.     1297.
GR  1324.2     9716.    1323.1     9748.   1324.4    9765.   1321.9    9790.    1318.3    9810.
GR   1317.     9839.    1306.7     9889.   1294.1    9951.   1291.5    9972.    1289.3    9993.
GR  1289.7    10000.    1289.7    10018.   1290.5   10040.   1293.8   10058.    1298.8   10073.
GR  1299.8    10094.    1303.4    10108.   1303.9   10121.    1303.   10135.    1310.1   10182.
GR  1310.2    10194.

SB    1.25      1.56       3.0       0.      10.4       1.0      56.5       0.    1289.4    1289.3
X1  18.583                                  40.       40.       40.                 0.1

       ELTRD IS 1298.4+0.6HV = 1299.0

X2                          1.    1295.4    1299.
X3     10.                                                            1298.4    1298.4
BT      9.     9880.    1310.       0.     9965.    1300.       0.   10000.    1298.4       0.
BT  10037.     1300.       0.    10065.    1302.       0.   10085.    1304.       0.   10122.
BT   1306.       0.   10160.    1308.       0.   10170.    1310.       0.

X1  18.640       17.    9955.    10033.     300.     310.     301.
GR  1322.5     9707.    1323.7     9729.   1320.1    9768.   1313.8    9827.    1312.3    9858.
GR  1308.4     9887.    1302.6     9920.   1294.6    9955.   1292.8    9966.    1290.2    9993.
GR  1291.5    10000.    1291.8    10009.   1293.4   10033.   1307.8   10111.     1309.   10132.
GR  1312.1    10153.    1313.2    10167.
```

```
X1   18.734      19.     9938.    10062.      490.      500.      496.
GR   1320.7    9713.    1316.3     9762.    1316.6     9809.    1319.2     9819.    1317.9     9841.
GR   1308.7    9888.    1298.6     9938.    1293.4     9971.    1294.2     9981.    1292.4     9992.
GR   1294.5   10000.    1294.4    10025.    1300.8    10062.     1309.    10094.    1307.6    10104.
GR   1312.9   10124.     1314.    10143.    1317.1    10178.    1319.9    10201.

X1   18.832      21.     9929.    10046.      480.      540.      517.
GR   1326.2    9779.     1328.     9788.    1320.6     9826.     1316.     9853.    1312.5     9880.
GR   1302.8    9929.    1296.1     9960.    1293.5     9982.    1293.2    10000.    1293.2    10005.
GR   1294.8   10008.    1295.5    10027.    1297.1    10046.    1307.7    10095.    1314.1    10128.
GR   1314.1   10141.    1317.1    10187.    1320.3    10221.    1319.9    10247.    1318.6    10271.
GR   1319.2   10278.

X1   18.925      14.     9941.    10048.      480.      500.      491.
GR   1329.1    9741.    1315.9     9866.    1297.6     9941.    1297.3     9960.    1295.3     9989.
GR    1295.   10000.    1296.1    10006.    1295.4    10022.    1294.6    10025.    1296.3    10034.
GR    1300.   10048.    1310.5    10087.    1320.1    10132.    1321.3    10161.

X1   19.018      20.     9903.    10030.      460.      520.      491.
GR    1331.    9681.    1321.2     9775.    1313.9     9847.    1305.1     9903.    1298.1     9930.
GR    1298.    9948.    1298.1     9957.    1297.6     9974.     1299.    10000.    1308.4    10030.
GR   1325.3   10088.     1327.    10101.    1325.5    10109.    1330.2    10118.    1330.9    10124.
GR    1327.   10145.    1326.8    10211.    1328.8    10218.    1332.6    10260.    1331.8    10268.

X1   19.117      10.     9973.    10026.      490.      560.      523.
GR   1333.9    9803.    1331.8     9872.     1323.     9908.    1302.9     9973.    1299.2     9997.
GR   1298.7   10000.    1298.6    10010.    1301.5    10026.    1328.9    10116.     1333.    10144.

X1   19.210      16.     9945.    10060.      500.      490.      491.
GR   1333.2    9669.    1330.6     9853.    1328.7     9874.     1312.     9945.     1310.     9954.
GR   1303.8    9978.    1301.4     9991.    1300.2    10000.    1301.3    10010.    1303.4    10026.
GR    1312.   10060.    1321.3    10098.     1327.    10127.    1332.5    10166.    1335.3    10191.
GR   1335.6   10192.

       19TH AVENUE  (SPECIAL BRIDGE)

NC                                  0.3       0.5
QT      3.    8400.    12700.    14600.
X1   19.283      12.     9948.    10057.      390.      390.      386.                11.2
X3     10.                                                                1324.     1324.
GR   1333.2    9669.    1330.6     9853.    1328.7     9874.     1312.     9945.    1300.5     9948.
GR   1300.5   10057.     1312.    10060.    1321.3    10098.     1327.    10127.    1332.5    10166.
GR   1335.3   10191.    1335.6    10192.

SB     0.9     1.56        3.                 109.       4.5     1304.        0.    1311.7    1311.7
X1   19.299                                    86.       86.       86.

       ELTRD IS 1324.5+2HV = 1326.5

X2                          1.    1324.2    1326.5
X3     10.                                                                1325.     1325.
BT      6.    9500.     1326.        0.     9650.    1324.5        0.     9855.    1325.3        0.
```

```
BT   10000.    1325.7       0.     10275.     1324.9       0.     10460.     1326.       0.

X1   19.313      20.     9932.     10112.       75.      75.       74.
GR    1329.    9853.    1326.7     9859.     1327.6    9866.     1327.9     9932.    1314.5     9968.
GR   1312.2    9980.    1311.7     9988.     1313.1    9996.     1313.1    10000.    1313.4    10017.
GR    1312.   10029.    1313.7    10044.     1311.7   10054.     1313.7    10069.    1325.5    10112.
GR   1325.4   10137.    1324.3    10180.     1324.9   10219.     1325.2    10325.    1326.6    10464.

NC                                   0.1        0.3
X1   19.418      19.     9948.     10120.      570.     530.      554.
GR   1330.8    9896.    1328.8     9902.     1330.6    9910.     1330.2     9938.     1328.     9948.
GR   1313.1    9992.    1313.1    10000.      1313.    10004.     1316.1    10022.    1314.6    10058.
GR   1315.5   10076.    1320.1    10094.     1326.1   10120.     1327.6    10138.    1327.5    10186.
GR   1326.2   10276.     1327.    10322.     1328.3   10376.     1328.6    10401.
```

SECTION 19.56 IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST FORK. THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE EAST FORK OF CAVE CREEK. THE CONFLUENCE OCCURS AT RM 19.608

```
X1   19.56      17.     9929.     10065.      730.     720.      729.
GR   1346.1    9801.    1329.7     9902.     1329.7    9929.     1316.5     9950.    1316.8     9978.
GR   1315.6   10000.    1315.6    10008.     1316.6   10026.     1316.4    10035.    1317.5    10043.
GR   1330.6   10065.    1330.8    10099.     1330.5   10146.     1330.2    10195.    1330.9    10208.
GR   1331.2   10223.    1332.1    10301.
```

GREENWAY BRIDGE (SPECIAL BRIDGE). LARGE SKEW ACCOUNTED FOR PRIOR TO DATA INPUT BY ADJUSTING BWC ETC. DUE TO COMPLEX CHANNEL GEOMETRY DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE. GR CARDS FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7

```
BT      3.     5300.     4900.     5700.
NC   0.035     0.035     0.015       0.3       0.5
X1   19.625      11.     9965.     10025.      580.      70.      364.                  -1.7
X3     10.                                                                1332.     1332.
GR   1335.7    9834.    1335.1     9893.     1333.4    9922.     1331.8     9937.    1331.6     9948.
GR   1319.3    9965.    1319.3    10025.      1331.    10042.     1339.2    10055.    1337.7    10060.
GR   1338.8   10100.

SB    1.05     1.56        3.       100.       60.       2.       564.        0.     1318.6    1317.6
X1   19.691                                   330.     430.      350.                   1.0
```

ELTRD IS 1332.8+2HV = 1334.8

```
X2                          1.     1328.3     1334.8
X3     10.                                                                1333.     1333.
```

```
X1   19.742      13.     9948.    10042.      80.     470.     269.
GR   1335.7    9834.    1335.1     9893.    1333.4    9922.    1331.8    9937.    1331.6     9948.
GR   1319.1    9967.    1319.2    10000.    1319.7   10017.    1319.7   10027.    1331.     10042.
GR   1339.2   10055.    1337.7    10060.    1338.8   10100.

NC    0.035    0.035    0.035       0.1       0.3
X1   19.847      22.     9929.    10062.     570.     520.     554.
GR   1339.8    9621.    1338.7     9726.    1341.6    9738.    1338.8    9759.    1339.      9806.
GR   1337.7    9915.    1336.1     9921.    1336.3    9929.    1320.2    9974.    1318.8     9989.
GR   1320.8   10000.    1320.5    10017.    1321.3   10023.    1328.8   10040.    1335.8    10062.
GR   1336.1   10070.    1336.6    10084.    1335.8   10150.     1336.   10160.    1338.3    10175.
GR   1339.2   10195.    1339.2    10198.

X1   19.960      24.     9958.    10031.     640.     560.     597.
GR   1340.4    9544.    1339.1     9638.    1336.7    9736.    1337.2    9768.    1338.2     9807.
GR   1338.9    9836.    1338.4     9908.    1340.1    9911.    1337.7    9917.    1339.1     9924.
GR   1337.2    9935.     1330.     9958.    1327.8    9964.    1326.1    9977.    1324.6     9990.
GR   1324.7   10000.    1326.1    10008.    1326.8   10023.     1330.   10031.    1340.6    10059.
GR   1340.8   10072.    1340.7    10099.    1340.1   10194.    1339.9   10251.
```

TIERRA BUENA (SPECIAL BRIDGE)

DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED
FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD
AND UNION HILLS DRIVE

```
NC    0.04     0.04    0.035       0.3       0.5
X1   19.974      10.     9969.    10020.     105.      65.      74.
X3      10.                                                             1336.     1336.
GR   1340.1    9911.    1337.7     9917.    1339.1    9924.    1337.2    9935.     1330.     9958.
GR   1323.8    9969.    1323.8    10020.     1330.   10031.    1340.6   10059.    1340.8    10072.

SB    1.25     1.56       3.                  51.       3.      480.       0.     1324.1    1323.8
X1   19.986                                   61.      61.       61.
```

ELTRD IS 1336.9+1HV = 1337.9

```
X2                        1.    1334.1    1337.9
X3      10.                                                             1337.     1337.
ST       3.    9560.    1340.       0.   10000.   1336.9       0.   10230.     1340.        0.

X1   20.049      37.     9954.    10027.     305.     345.     333.
X3      10.                                                             1340.
GR   1344.7    9266.    1345.2     9300.    1342.4    9304.    1340.8    9328.    1332.6     9344.
GR   1333.1    9400.    1333.3     9490.     1334.    9563.    1334.8    9606.    1333.2     9728.
GR    1335.    9767.    1331.4     9805.     1331.    9820.    1331.5    9854.    1331.5     9901.
GR   1332.1    9920.    1341.1     9938.    1340.5    9950.    1343.4    9954.    1339.8     9969.
GR   1327.4    9991.    1327.1     9997.    1327.1   10000.    1328.4   10008.    1339.4    10027.
GR    1340.   10047.    1342.3    10075.    1342.4   10097.    1340.2   10114.    1342.3    10131.
GR    1343.   10142.    1341.5    10162.    1342.7   10175.    1342.9   10210.    1343.3    10307.
GR   1342.5   10378.     1343.    10477.
```

```
NC                                  0.1       0.3
X1   20.144      38.     9955.    10025.      490.      500.      502.
X3     10.                                                        1344.
GR   1346.6    9136.    1347.4     9206.    1348.2     9208.    1348.4     9215.    1347.1     9235.
GR   1342.5    9239.    1341.7     9258.    1334.6     9278.     1332.     9297.    1332.6     9357.
GR   1333.7    9417.    1333.1     9457.    1334.1     9479.    1334.9     9499.    1335.3     9554.
GR   1334.4    9582.    1335.7     9631.    1335.6     9698.    1336.1     9745.    1334.6     9779.
GR   1329.6    9788.    1330.5     9820.    1329.4     9847.    1328.5     9881.    1328.5     9912.
GR   1341.6    9931.    1343.1     9951.    1344.6     9955.     1342.     9968.    1330.9     9986.
GR   1330.9   10000.    1330.9    10010.    1340.8    10025.    1342.2    10040.    1345.9    10053.
GR   1346.5   10073.     1347.    10128.     1347.    10198.

X1   20.242      32.     9953.    10029.      470.      560.      517.
X3     10.                                                        1348.
GR   1346.6    9200.    1347.9     9269.    1348.7     9271.    1348.7     9277.    1346.6     9330.
GR   1347.7    9377.    1342.3     9383.    1342.7     9400.    1332.4     9422.    1333.6     9470.
GR   1333.7    9529.    1334.9     9573.    1334.2     9626.    1334.9     9648.    1335.1     9651.
GR    1336.    9785.     1336.     9842.    1338.6     9846.    1339.3     9895.    1339.2     9935.
GR   1347.2    9953.    1343.7     9970.    1333.3     9988.    1333.7    10000.    1333.5    10012.
GR   1342.8   10029.    1343.2    10041.    1348.3    10061.    1349.2    10076.    1349.9    10107.
GR   1350.1   10201.    1350.3    10202.

X1   20.335      27.     9958.    10032.      510.      470.      491.
GR   1349.5    9230.    1351.4     9312.    1349.1     9322.    1350.7     9340.     1351.     9476.
GR   1351.2    9592.    1350.4     9726.    1350.1     9808.    1351.1     9820.    1351.4     9850.
GR   1351.8    9928.    1347.7     9950.     1344.     9958.    1337.7     9971.    1337.3     9987.
GR   1337.4   10000.    1338.3    10021.     1344.    10032.     1349.    10042.    1351.8    10056.
GR   1351.1   10100.    1351.6    10141.     1350.    10144.     1350.    10166.     1350.    10240.
GR   1350.8   10328.    1351.4    10406.
```

11TH AVENUE (SPECIAL BRIDGE)

```
NC                                  0.3       0.5
X1   20.347      25.     9970.    10021.        1.      150.       63.
X3     10.                                                        1351.5    1351.5
GR   1349.5    9230.    1351.4     9312.    1349.1     9322.    1350.7     9340.     1351.     9476.
GR   1351.2    9592.    1350.4     9726.    1350.1     9808.    1351.1     9820.    1351.4     9850.
GR   1351.8    9928.    1347.7     9950.     1344.     9958.    1337.2     9970.    1337.2    10021.
GR    1344.   10032.     1349.    10042.    1351.8    10056.    1351.1    10100.    1351.6    10141.
GR    1350.   10144.     1350.    10166.     1350.    10240.    1350.8    10328.    1351.4    10406.

SB    1.25      1.56       3.0      100.       51.        3.      576.        0.    1337.7    1337.2
X1   20.366                                   100.      100.      100.
```

ELTRD IS 1352.5+2HV = 1354.5

```
X2                          1.    1349.7     1354.5
X3     10.                                                        1352.5    1352.5
```

```
X1   20.423      21.      9975.    10045.      415.      205.      301.
GR   1354.3    9418.    1353.8     9613.    1355.3     9653.    1354.6     9696.    1353.3     9711.
GR   1353.6    9724.    1353.5     9931.     1352.     9950.     1345.     9975.     1338.    10000.
GR   1339.4   10027.    1339.7    10037.    1344.3    10045.     1345.    10055.    1353.3    10085.
GR   1353.5   10100.    1354.7    10127.    1354.4    10214.    1354.3    10273.    1353.3    10300.
GR   1353.5   10333.
```

10TH AVENUE (SPECIAL BRIDGE)

```
X1   20.430      20.      9985.    10036.        1.        65.        37.
X3      10.                                                                1352.5    1352.5
GR   1354.3    9418.    1353.8     9613.    1355.3     9653.    1354.6     9696.    1353.3     9711.
GR   1353.6    9724.    1353.5     9931.     1352.     9950.     1345.     9975.    1339.3     9985.
GR   1339.3   10036.    1344.3    10045.     1345.    10055.    1353.3    10085.    1353.5    10100.
GR   1354.7   10127.    1354.4    10214.    1354.3    10273.    1353.3    10300.    1353.5    10333.

SB    1.25      1.56       3.0      100.       51.        3.       576.        0.    1339.3    1339.3
X1   20.444                                    70.        70.        70.
```

ELTRD IS 1353.5+2HV = 1355.5

```
X2                          1.    1351.3    1355.5
X3      10.                                                                1353.5    1353.5

X1   20.529      19.      9947.    10055.      545.      375.      449.
GR    1354.    9570.    1353.7     9764.    1354.8     9836.     1355.     9885.    1354.7     9898.
GR   1350.7    9910.    1350.2     9947.    1343.4     9963.    1343.4     9990.    1343.3    10000.
GR    1343.   10025.    1348.6    10041.    1350.4    10055.    1350.8    10090.     1355.    10105.
GR   1354.4   10159.     1355.    10192.     1355.    10302.    1355.2    10313.

NC                                   0.1       0.3
X1   20.628      16.      9909.    10076.      530.      520.      523.
GR   1357.3    9532.    1357.3     9624.    1356.8     9754.    1357.2     9808.    1357.1     9909.
GR   1351.5    9922.    1350.2     9947.    1343.3     9959.    1343.6     9991.    1343.6    10000.
GR   1343.7   10044.    1356.3    10076.     1357.    10082.    1357.1    10137.    1357.2    10282.
GR    1358.   10337.

X1   20.725      20.      9951.    10036.      510.      520.      512.
GR   1360.3    9544.    1361.1     9631.    1361.3     9734.     1361.     9783.     1362.     9858.
GR   1360.8    9940.    1360.4     9951.    1350.4     9970.    1350.4     9981.    1348.3     9984.
GR   1347.4    9992.    1347.2    10000.    1347.4    10010.     1361.    10036.    1363.4    10046.
GR   1363.8   10101.    1364.1    10156.    1364.7    10184.    1365.1    10212.    1364.7    10291.
```

PHELPS ROAD (SPECIAL BRIDGE)

```
NC                                   0.3       0.5
X1   20.737      16.      9968.    10019.       80.        80.        80.                  3.4
X3      10.                                                                1363.     1363.
GR   1360.3    9544.    1361.1     9631.    1361.3     9734.     1361.     9783.     1362.     9858.
GR   1360.8    9940.    1360.4     9951.    1347.5     9968.    1347.5    10019.     1361.    10036.
GR   1363.4   10046.    1363.8    10101.    1364.1    10156.    1364.7    10184.    1365.1    10212.
```

```
GR   1364.7     10291.

SB    1.25      1.56       3.0      100.       51.        3.       576.        0.     1351.0     1350.9
X1   20.750                                    71.       71.        71.                  0.1

        ELTRD IS 1364+2HV = 1366.0

X2                           1.     1363.     1366.
X3     10.                                                                   1364.      1364.

        BELL ROAD  (SPECIAL BRIDGE)  A SECTION TAKEN UPSTREAM OF BELL ROAD AT
        RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE.  GR CARDS ARE REPEATED
        AT THE DOWNSTREAM FACE WITH PSXECE = -0.9.  TO MORE APPROPRIATELY MODEL
        CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860
        INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.

X1   20.819       12.      9965.    10043.      375.      345.       365.                -0.9
X3     10.                                                                   1366.9     1366.9
GR   1366.5     9554.     1365.4     9663.    1365.5     9777.     1365.5     9846.     1365.3      9942.
GR   1357.4     9965.     1357.4    10043.    1367.6    10066.     1366.2    10107.     1366.2     10146.
GR    1367.    10166.     1367.2    10169.

SB    1.05      1.56       3.0      100.      77.3       3.3       655.        0.     1357.4     1356.5
X1   20.841                                   115.      115.       115.                  0.9

        ELTRD IS 1367.9+2HV = 1369.9

X2                           1.    1365.4    1369.9
X3     10.                                                                   1367.9     1367.9

X1   20.860       14.      9942.    10066.      90.      110.       100.
X3     10.                                                                   1365.3     1367.6
GR    1370.     9800.     1365.5     9801.    1365.5     9846.     1365.3     9942.     1357.8      9975.
GR   1356.3     9991.     1356.4    10000.    1357.2    10015.     1357.     10040.     1367.6     10066.
GR   1366.2    10107.     1366.2    10146.     1367.    10166.     1367.2    10169.

NC    0.04     0.035      0.035       0.1       0.3
X1   20.942       26.      9854.    10024.      530.      490.       433.
GR   1372.5     9619.     1367.2     9630.    1368.7     9643.     1369.8     9663.     1369.4      9719.
GR   1367.6     9792.     1367.6     9836.    1368.6     9854.     1360.2     9867.     1359.8      9879.
GR   1359.8     9891.     1364.6     9904.    1365.2     9942.     1363.7     9970.      1366.      9977.
GR   1360.3     9998.     1359.6    10000.    1366.5    10024.     1364.7    10027.     1364.5     10053.
GR   1365.7    10070.     1364.5    10114.    1361.6    10153.     1368.3    10171.     1368.3     10194.
GR   1368.3    10204.

NC    0.04      0.04      0.035
X1   21.036       19.      9912.    10020.      490.      490.       496.
GR   1376.1     9550.      1372.     9541.     1372.     9561.     1371.3     9665.     1371.9      9728.
GR   1371.6     9758.     1370.9     9867.    1370.7     9912.     1367.3     9917.     1367.5      9952.
GR   1366.3     9980.     1363.5     9994.    1363.6    10000.     1364.3    10009.     1370.4     10020.
GR   1371.2    10041.     1371.2    10075.    1371.8    10089.      1378.    10090.
```

X1	21.127	13.	9974.	10067.	400.	500.	480.			
X3	10.							1374.		
GR	1378.9	9623.	1373.6	9634.	1373.6	9666.	1373.4	9759.	1373.5	9860.
GR	1373.7	9913.	1374.2	9974.	1366.9	9990.	1366.7	10000.	1367.5	10015.
GR	1367.8	10039.	1375.	10067.	1375.	10077.				
X1	21.230	28.	9967.	10048.	560.	500.	544.			
GR	1381.5	9741.	1381.5	9764.	1381.5	9786.	1380.7	9813.	1379.3	9835.
GR	1379.3	9852.	1379.9	9862.	1378.2	9870.	1379.8	9879.	1378.9	9891.
GR	1379.5	9916.	1379.6	9930.	1378.9	9944.	1379.2	9955.	1379.3	9967.
GR	1374.7	9982.	1372.4	9992.	1372.	10000.	1373.2	10014.	1375.6	10023.
GR	1379.3	10037.	1380.6	10048.	1378.	10062.	1377.5	10083.	1377.4	10102.
GR	1377.7	10117.	1377.8	10126.	1385.	10127.				
X1	21.363	55.	9928.	10088.	740.	700.	702.			
GR	1384.8	9135.	1384.7	9160.	1383.9	9189.	1384.6	9215.	1383.9	9245.
GR	1384.4	9279.	1383.8	9313.	1384.	9345.	1384.1	9374.	1383.8	9405.
GR	1383.5	9428.	1384.5	9459.	1385.	9498.	1384.7	9527.	1385.	9549.
GR	1382.2	9561.	1381.	9570.	1382.1	9583.	1383.9	9596.	1384.3	9628.
GR	1384.3	9657.	1384.	9697.	1383.6	9739.	1384.1	9779.	1383.9	9811.
GR	1383.1	9822.	1383.6	9848.	1383.3	9886.	1383.5	9907.	1384.1	9916.
GR	1383.2	9922.	1384.4	9928.	1383.6	9939.	1379.2	9954.	1377.7	9977.
GR	1375.	9996.	1374.8	10000.	1375.	10016.	1374.2	10037.	1374.1	10045.
GR	1377.5	10066.	1382.1	10088.	1383.8	10108.	1384.	10125.	1384.5	10147.
GR	1382.7	10174.	1383.2	10202.	1383.1	10224.	1383.1	10245.	1383.3	10265.
GR	1384.3	10285.	1383.4	10301.	1383.	10319.	1383.	10334.	1383.	10337.
X1	21.484	33.	9932.	10026.	650.	520.	639.			
GR	1386.8	9487.	1385.8	9527.	1385.8	9572.	1385.4	9614.	1384.8	9647.
GR	1385.2	9678.	1385.6	9709.	1386.7	9746.	1385.9	9776.	1384.5	9805.
GR	1383.9	9837.	1384.4	9867.	1384.	9892.	1386.5	9919.	1386.9	9932.
GR	1386.2	9943.	1383.5	9964.	1380.2	9970.	1379.7	9988.	1378.5	9994.
GR	1378.6	10000.	1381.2	10014.	1386.5	10026.	1386.6	10053.	1387.8	10056.
GR	1385.5	10060.	1388.2	10068.	1385.8	10075.	1387.4	10079.	1387.4	10101.
GR	1387.6	10116.	1387.5	10131.	1387.4	10134.				
X1	21.576	43.	9980.	10087.	320.	480.	486.			
GR	1388.7	9388.	1388.6	9414.	1388.2	9461.	1388.5	9500.	1389.3	9532.
GR	1388.7	9570.	1388.5	9607.	1387.9	9643.	1388.6	9664.	1388.8	9705.
GR	1389.1	9743.	1388.9	9780.	1388.	9821.	1388.4	9852.	1388.7	9889.
GR	1389.1	9922.	1389.7	9952.	1390.1	9968.	1390.	9980.	1382.5	9994.
GR	1382.1	10000.	1382.2	10008.	1383.8	10015.	1385.1	10038.	1385.2	10056.
GR	1384.1	10065.	1384.6	10073.	1388.3	10087.	1387.1	10114.	1387.1	10140.
GR	1387.8	10162.	1387.7	10199.	1388.4	10243.	1388.7	10281.	1389.3	10300.
GR	1390.3	10307.	1389.2	10313.	1390.7	10320.	1387.6	10329.	1388.9	10335.
GR	1389.7	10348.	1390.2	10360.	1390.3	10386.				
QT	3.	3200.	4800.	5500.						
X1	21.669	35.	9962.	10031.	440.	470.	491.			
GR	1393.2	9392.	1393.	9426.	1392.7	9446.	1392.3	9515.	1392.9	9562.
GR	1392.2	9606.	1392.8	9663.	1392.7	9710.	1393.1	9742.	1393.5	9777.
GR	1393.3	9819.	1392.7	9858.	1392.2	9893.	1391.6	9925.	1392.	9949.
GR	1393.8	9962.	1392.7	9974.	1392.2	9982.	1385.	9989.	1384.	9997.

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GR   1384.5    10000.    1385.1    10011.    1388.7    10023.    1392.     10031.    1391.2    10045.
GR    1392.    10074.    1391.7    10124.    1391.9    10182.    1392.     10245.    1392.1    10303.
GR   1391.9    10361.     1392.    10395.    1392.6    10401.    1391.6    10404.    1393.3    10414.

X1   21.742       25.     9975.    10091.      430.      390.      385.
GR    1396.     9733.    1394.6     9753.    1395.1     9777.    1395.      9802.    1395.     9839.
GR   1395.6     9885.    1395.1     9930.    1395.3     9940.    1394.7     9975.    1387.4     9991.
GR   1386.4    10000.    1386.9    10015.    1392.2    10035.    1391.9    10052.    1389.9    10062.
GR   1391.5    10080.    1394.2    10091.    1394.2    10126.    1394.9    10176.    1395.     10240.
GR   1394.6    10281.    1394.8    10324.    1395.2    10355.    1395.3    10367.    1397.3    10376.

X1   21.840       22.     9946.    10054.      430.      430.      517.
GR   1401.5     9827.    1402.1     9842.    1397.3     9860.    1395.5     9882.    1395.     9913.
GR   1395.3     9931.    1396.2     9946.    1395.7     9953.    1392.1     9967.    1392.6     9984.
GR   1393.7     9997.    1393.3    10000.    1392.5    10020.    1391.1    10033.    1393.5    10045.
GR    1397.    10054.    1396.5    10097.    1397.3    10145.    1397.8    10186.    1397.5    10227.
GR   1397.6    10273.    1398.3    10308.

X1   21.895       31.     9975.    10031.      330.      220.      290.
GR   1402.6     9807.    1402.6     9825.    1398.4     9839.    1397.2     9857.    1396.7     9885.
GR   1396.7     9919.    1397.7     9939.    1397.9     9960.    1398.      9975.    1397.1     9981.
GR    1393.     9990.    1391.9    10000.    1392.3    10010.    1394.     10021.    1397.7    10031.
GR   1398.6    10046.     1399.    10078.    1398.4    10113.    1398.6    10149.    1398.7    10187.
GR   1398.5    10225.    1398.1    10251.    1398.6    10292.    1398.6    10333.    1399.3    10364.
GR   1398.8    10399.    1399.5    10428.    1400.5    10446.    1400.5    10458.    1399.7    10463.
GR   1400.9    10470.
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UNION HILLS RD: PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA (BAREA) WITH AN ORIFICE COEFFICIENT. THE 100 YEAR FLOW THROUGH THE PIPES WAS NEGLIGIBLE (18 CFS). UNION HILLS IS THEREFORE MORE APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.

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X1   21.933       12.     9865.    10140.      210.      210.      210.
GR    1402.     9060.    1400.3     9440.    1400.     9590.    1398.      9680.    1397.4     9725.
GR    1398.     9780.    1399.4     9840.    1398.     9865.    1396.8    10000.     1398.    10140.
GR    1400.    10285.     1406.    10286.

NC    0.045     0.045     0.045
X1   21.953       39.     9969.    10029.       75.       75.       74.
GR    1402.     9320.    1400.5     9487.    1400.8     9527.    1401.4     9557.    1400.2     9580.
GR   1401.7     9599.    1401.1     9621.    1400.2     9647.    1399.6     9678.    1398.8     9699.
GR   1398.3     9714.    1397.6     9720.    1396.6     9725.    1398.8     9735.    1399.3     9745.
GR   1398.8     9759.    1397.3     9768.    1398.9     9782.    1398.9     9810.    1400.1     9832.
GR   1402.1     9851.    1401.7     9870.    1403.3     9884.    1403.7     9893.    1403.4     9912.
GR   1402.3     9939.     1401.     9956.    1399.7     9965.    1400.2     9969.    1395.6     9986.
GR   1394.4     9997.    1394.1    10000.    1394.     10010.    1394.9    10018.    1398.3    10029.
GR   1400.1    10044.    1401.6    10058.    1401.4    10064.     1407.    10065.
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X1	22.065	39.	9961.	10028.	430.	630.	591.			
GR	1404.2	9230.	1404.	9250.	1402.	9270.	1402.	9500.	1403.1	9594.
GR	1403.6	9604.	1400.4	9627.	1400.1	9645.	1400.6	9657.	1400.3	9680.
GR	1400.5	9700.	1401.9	9717.	1403.3	9731	1403.7	9746.	1403.9	9761.
GR	1400.1	9776.	1400.	9785.	1401.1	9796.	1401.	9816.	1403.7	9829.
GR	1403.7	9843.	1400.7	9861.	1399.7	9869.	1402.7	9890.	1403.5	9899.
GR	1404.1	9915.	1404.8	9934.	1403.6	9950.	1404.1	9961.	1401.4	9977.
GR	1398.	9989.	1395.8	9995.	1395.8	10000.	1395.9	10006.	1399.4	10010.
GR	1402.	10028.	1402.6	10043.	1406.6	10061.	1407.1	10085.		
X1	22.165	63.	9983.	10018.	530.	530.	528.			
GR	1406.	9130.	1405.2	9138.	1405.	9151.	1404.4	9164.	1402.8	9176.
GR	1402.7	9184.	1400.8	9204.	1399.8	9213.	1399.3	9222.	1401.2	9232.
GR	1403.	9256.	1403.8	9282.	1403.8	9308.	1404.3	9334.	1404.2	9364.
GR	1404.1	9396.	1404.	9425.	1404.9	9463.	1405.2	9499.	1405.3	9526.
GR	1404.9	9548.	1403.8	9565.	1402.8	9579.	1404.6	9595.	1404.8	9608.
GR	1402.4	9624.	1400.	9637.	1399.7	9645.	1400.6	9657.	1402.	9669.
GR	1403.1	9686.	1404.5	9701.	1405.8	9714.	1406.2	9728.	1406.1	9741.
GR	1404.	9753.	1403.8	9760.	1405.2	9772.	1405.6	9784.	1405.3	9793.
GR	1402.9	9806.	1402.7	9820.	1402.6	9834.	1402.6	9843.	1401.8	9849.
GR	1401.9	9862.	1402.8	9872.	1403.8	9876.	1405.	9894.	1406.1	9909.
GR	1405.4	9919.	1403.1	9930.	1403.	9946.	1402.1	9967.	1400.9	9983.
GR	1395.3	9994.	1395.	10000.	1396.1	10007.	1403.7	10018.	1404.8	10038.
GR	1405.2	10053.	1405.2	10060.	1405.7	10065.				
X1	22.273	57.	9933.	10028.	470.	580.	570.			
GR	1418.7	9227.	1418.7	9238.	1412.4	9262.	1411.6	9274.	1410.9	9284.
GR	1409.	9292.	1407.6	9300.	1407.3	9314.	1406.3	9325.	1403.5	9335.
GR	1403.1	9344.	1403.	9350.	1404.3	9359.	1405.4	9369.	1405.8	9386.
GR	1406.7	9408.	1407.1	9427.	1407.4	9444.	1407.2	9460.	1406.4	9473.
GR	1406.5	9485.	1406.9	9502.	1407.7	9520.	1408.2	9532.	1407.1	9538.
GR	1404.4	9574.	1404.3	9598.	1406.	9622.	1407.	9657.	1407.3	9686.
GR	1406.2	9708.	1406.4	9727.	1406.4	9745.	1405.6	9754.	1402.6	9766.
GR	1402.8	9774.	1406.7	9789.	1409.4	9801.	1408.5	9827.	1407.9	9851.
GR	1408.8	9869.	1406.3	9887.	1407.	9902.	1404.	9915.	1404.1	9933.
GR	1403.2	9948.	1401.6	9961.	1400.6	9977.	1400.1	9992.	1399.4	9999.
GR	1399.8	10000.	1401.2	10011.	1404.	10021.	1406.9	10028.	1408.	10050.
GR	1408.3	10080.	1408.7	10109.						
X1	22.410	25.	9973.	10027.	750.	630.	723.			
GR	1420.	9802.	1419.1	9817.	1418.8	9825.	1415.8	9838.	1414.8	9850.
GR	1412.6	9867.	1413.9	9879.	1412.	9890.	1413.4	9903.	1414.5	9914.
GR	1416.1	9922.	1414.	9931.	1412.4	9941.	1411.4	9954.	1411.2	9967.
GR	1410.7	9973.	1405.7	9987.	1404.9	9997.	1404.	10000.	1404.7	10007.
GR	1407.6	10017.	1411.3	10027.	1413.5	10042.	1413.8	10057.	1414.4	10071.
X1	22.483	19.	9941.	10105.	380.	390.	385.			
GR	1421.	9823.	1420.2	9843.	1416.7	9873.	1414.4	9891.	1413.1	9915.
GR	1411.1	9941.	1407.8	9961.	1406.2	9984.	1405.5	10000.	1405.5	10027.
GR	1406.4	10056.	1408.3	10084.	1411.2	10105.	1412.3	10120.	1412.6	10138.
GR	1412.6	10156.	1411.9	10175.	1412.7	10191.	1419.8	10208.		

X1	22.578	13.	9968.	10072.	540.	490.	502.			
GR	1417.2	9914.	1417.6	9942.	1416.4	9958.	1416.6	9968.	1406.7	9983.
GR	1406.7	9993.	1407.5	10000.	1408.5	10024.	1408.5	10040.	1408.8	10050.
GR	1415.6	10063.	1421.2	10072.	1421.4	10090.				
X1	22.675	19.	9736.	10032.	570.	480.	512.			
GR	1419.9	9671.	1419.9	9710.	1419.8	9736.	1410.6	9759.	1411.1	9783.
GR	1410.6	9809.	1409.7	9828.	1410.8	9850.	1411.5	9873.	1413.4	9892.
GR	1412.2	9922.	1411.	9950.	1411.	9976.	1410.7	10000.	1410.6	10015.
GR	1420.	10032.	1428.3	10047.	1426.6	10055.	1426.	10060.		
X1	22.794	20.	9983.	10169.	460.	500.	628.			
GR	1420.6	9968.	1417.8	9983.	1413.6	9998.	1412.4	10000.	1412.3	10013.
GR	1410.7	10041.	1411.6	10065.	1413.7	10080.	1413.8	10103.	1414.2	10119.
GR	1411.7	10136.	1413.8	10151.	1416.1	10169.	1417.2	10189.	1420.3	10202.
GR	1423.1	10219.	1427.	10244.	1429.9	10261.	1429.8	10278.	1429.8	10282.
X1	22.880	34.	9927.	10167.	440.	480.	454.			
GR	1427.3	9791.	1427.	9807.	1426.5	9815.	1424.8	9827.	1424.6	9838.
GR	1424.8	9863.	1424.8	9883.	1424.5	9903.	1424.7	9917.	1426.4	9927.
GR	1423.9	9934.	1421.4	9947.	1418.5	9958.	1416.1	9968.	1415.	9984.
GR	1414.	9999.	1414.3	10000.	1414.5	10012.	1415.2	10024.	1416.1	10048.
GR	1416.5	10067.	1416.4	10101.	1416.2	10125.	1415.5	10143.	1413.2	10152.
GR	1413.	10156.	1414.8	10160.	1424.2	10167.	1426.6	10188.	1428.4	10200.
GR	1430.9	10214.	1433.5	10230.	1433.8	10241.	1433.5	10248.		
X1	22.990	35.	9739.	10034.	480.	530.	581.			
GR	1427.7	9668.	1427.6	9697.	1425.6	9719.	1425.3	9730.	1425.4	9739.
GR	1423.9	9751.	1422.5	9767.	1422.4	9785.	1421.5	9804.	1421.3	9817.
GR	1421.3	9829.	1420.8	9843.	1419.5	9855.	1418.9	9864.	1417.9	9873.
GR	1419.4	9886.	1420.	9903.	1420.6	9921.	1420.8	9935.	1420.3	9949.
GR	1420.	9963.	1419.1	9977.	1419.1	9995.	1419.1	10000.	1418.7	10014.
GR	1420.3	10020.	1427.9	10034.	1427.3	10044.	1428.3	10060.	1430.5	10076.
GR	1435.7	10094.	1437.4	10108.	1438.7	10119.	1436.3	10126.	1435.1	10133.
X1	23.097	48.	9951.	10121.	640.	490.	565.			
GR	1433.9	9713.	1433.9	9740.	1433.8	9758.	1432.3	9772.	1432.1	9778.
GR	1433.5	9794.	1433.5	9811.	1433.5	9835.	1433.4	9849.	1431.1	9864.
GR	1430.	9878.	1430.1	9885.	1431.	9892.	1429.6	9901.	1429.1	9916.
GR	1429.6	9925.	1431.3	9935.	1432.2	9945.	1432.3	9951.	1427.9	9964.
GR	1426.4	9977.	1425.6	9988.	1425.1	9999.	1425.1	10000.	1426.	10012.
GR	1426.1	10021.	1426.5	10044.	1426.5	10063.	1426.5	10073.	1426.5	10082.
GR	1425.5	10093.	1426.4	10101.	1428.5	10112.	1430.8	10121.	1430.1	10135.
GR	1430.	10150.	1431.6	10163.	1432.8	10176.	1433.	10198.	1432.7	10221.
GR	1431.6	10247.	1430.9	10267.	1430.6	10286.	1431.5	10296.	1433.4	10310.
GR	1438.3	10337.	1439.7	10353.	1440.5	10363.				

THE BEARDSLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL CROSS SECTION. THE BEARDSLEY ROAD CENTERLINE IS AT RM 23.168

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X1   23.168      22.     9777.    10116.      330.      300.      375.
GR   1435.4    9358.    1435.5     9412.    1435.6     9477.    1434.7     9533.    1433.2     9598.
GR   1431.8    9657.    1430.8     9718.    1429.5     9777.    1428.9     9827.     1429.     9877.
GR   1429.1    9942.     1429.     9999.    1429.1    10000.    1429.8    10053.    1430.3    10116.
GR   1431.8   10176.    1433.6    10230.    1434.3    10274.    1434.9    10326.    1435.5    10363.
GR   1435.6   10399.    1435.8    10409.
```

DUE TO BREAKOUTS (SPLIT FLOWS) BETWEEN RM 23.55 AND RM 23.8, THE 50 AND 100 YEAR Q'S ARE REDUCED PER THE FOLLOWING TABLE.

	FULL Q	REDUCED Q
50 YEAR	4800	3300
100 YEAR	5500	3400

THE 10 YEAR Q (3200 CFS) IS UNAFFECTED

```
QT      3.     3200.     3300.     3400.
NC   0.035      0.05      0.04
X1   23.253       8.     9973.    10038.      470.      450.      459.
GR   1437.5    9973.    1425.5     9995.    1425.2    10000.    1427.4    10008.    1429.2    10015.
GR   1444.2   10038.    1444.9    10052.     1445.    10060.

X1   23.334      10.     9962.    10055.      400.      420.      417.
GR   1443.8    9962.    1435.6     9979.    1433.2     9990.    1432.6    10000.    1433.2    10012.
GR   1435.4   10022.    1438.5    10032.    1444.2    10044.    1449.8    10055.    1449.6    10063.

X1   23.416      10.     9974.    10053.      400.      430.      433.
GR   1447.7    9958.    1447.8     9974.    1439.2     9989.    1436.5     9999.    1436.6    10000.
GR   1437.2   10017.    1437.6    10030.    1444.4    10041.    1450.2    10053.    1450.4    10066.

X1   23.514       8.     9973.    10039.      560.      470.      517.
GR   1451.5    9965.    1451.4     9973.    1439.8     9989.    1439.6    10000.    1440.1    10012.
GR   1441.5   10022.    1443.6    10029.    1451.1    10039.
```

SPECIAL BRIDGE IS USED TO MODEL EMBANKMENT PLACED IN THE CHANNEL TO ALLOW VEHICULAR ACCESS BETWEEN THE LANDFILL ON THE LEFT AND THE GRAVEL PIT ON THE RIGHT. THE EMBANKMENT MAY WASH OUT, BUT FOR THIS STUDY, IT IS ASSUMED TO REMAIN. LOW FLOWS PASS THROUGH 2-36" CMP'S.

```
X1   23.544                                  190.      150.      158.                 1.8
X3      10.                                                                1445.     1445.

SB    1.25      2.48       3.2        0.       5.7        1.      14.1        0.     1442.    1441.4
X1   23.555                                   60.       60.       60.                 0.6
```

ELTRD IS 1448.4+0.6HV = 1449

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X2                          1.     1445.     1449.
X3      10.                                                                1480.     1480.
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BT      10.     9930.     1452.       0.     9939.     1451.2       0.     9951.     1451.1       0.
BT    9967.    1449.8       0.     9987.    1448.4       0.    10000.    1448.4       0.    10019.
BT   1448.6       0.    10041.    1449.5       0.    10055.     1450.       0.    10070.     1452.
BT       0.

X1   23.591       17.     9968.    10045.      100.      210.      190.

        ARTIFICIAL LEVEES ARE SET VERY HIGH ON THE LEFT AND RIGHT OVERBANKS
        USING THE X3 CARD TO CONSIDER ONLY THE CHANNEL AREA AS EFFECTIVE.  SPLIT
        FLOW THAT BREAKS OUT UPSTREAM IS ACCOUNTED FOR BY THE REDUCED Q.  FLOWS
        ARE RETURNED TO CAVE CREEK DOWNSTREAM AT BEARDSLEY ROAD.

X3      10.                                                                1480.     1480.
GR    1460.     9700.     1448.     9760.     1448.     9850.    1452.9    9959.    1452.9     9968.
GR   1446.8     9982.    1444.6     9993.    1444.2    10000.    1444.2   10013.    1444.9    10023.
GR   1449.9    10036.    1453.8    10045.    1451.9    10048.     1448.   10070.     1448.    10430.
GR    1450.    10770.     1452.    11200.

X1   23.691       43.     9965.    10036.      510.      540.      528.

        HIGH ARTIFICIAL LEVEE

X3      10.                                                                1480.     1480.
GR   1461.1     9722.    1449.4     9747.    1449.4     9767.    1449.5    9784.    1449.1     9800.
GR   1448.3     9819.    1448.6     9832.    1448.3     9866.     1449.    9894.    1449.3     9913.
GR   1450.2     9925.    1453.5     9936.    1456.1     9944.    1455.4    9951.    1457.3     9955.
GR   1457.6     9965.    1450.8     9980.    1448.5     9985.    1447.2    9991.    1446.6     9999.
GR   1446.4    10000.     1447.    10011.    1449.6    10017.    1451.3   10028.    1455.3    10036.
GR   1453.2    10045.    1452.4    10054.    1451.3    10057.    1452.2   10062.    1452.4    10077.
GR   1452.2    10094.    1451.7    10108.    1452.6    10117.    1451.4   10123.    1452.7    10128.
GR    1451.    10138.    1452.3    10143.    1451.7    10147.    1453.4   10155.    1452.1    10160.
GR    1452.    10320.     1454.    10560.     1456.    10730.

        Q IS NOW CHANGED TO BE THE AVERAGE OF THE FULL Q UPSTREAM OF THE
        BREAKOUT AND OF THE REDUCED Q DOWNSTREAM OF THE BREAKOUT.

QT       3.     3150.     3950.     4350.
X1   23.815       31.     9951.    10037.      650.      680.      655.

        HIGH ARTIFICIAL LEVEE

X3      10.                                                                1480.     1480.
GR    1470.     9650.    1459.3     9716.    1453.5     9738.    1453.1    9772.    1453.4     9812.
GR   1454.5     9857.    1455.1     9890.     1455.     9914.    1455.4    9941.    1458.9     9951.
GR    1458.     9963.    1451.4     9979.    1449.7     9988.    1449.9    9996.    1449.7    10000.
GR   1449.7    10017.    1454.6    10028.    1457.8    10037.    1456.8   10043.    1456.8    10060.
GR   1456.9    10081.    1457.1    10110.    1458.2    10140.    1458.4   10157.    1459.5    10172.
GR   1458.5    10182.     1456.    10195.    1457.2    10215.    1458.7   10226.    1457.1    10235.
GR   1465.5    10249.

        Q IS NOW CHANGED TO BE THE FULL Q UPSTREAM OF THE BREAKOUT
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```
QT      3.     3100.     4600.     5300.
X1   23.912      12.     9967.    10043.      480.      510.      512.

       HIGH ARTIFICIAL LEVEE

X3      10.                                                          1480.     1480.
GR   1463.9     9868.    1461.7     9878.    1460.6     9898.    1460.7     9925.    1461.4     9950.
GR   1461.3     9967.    1451.3     9983.    1447.9     9994.     1448.    10000.    1447.9    10010.
GR   1454.9    10026.    1460.9    10043.

X1   23.989       9.     9937.    10049.      400.      410.      407.
GR   1465.6     9937.    1457.9     9957.    1452.6     9977.    1450.8     9989.    1449.7    10000.
GR   1450.5    10014.    1452.5    10024.     1458.    10036.    1465.8    10049.

       7TH STREET  (SPECIAL BRIDGE).  THE GR CARDS FROM SECTION 24.106 TAKEN
       UPSTREAM OF 7TH STREET ARE REPEATED AT THE DOWNSTREAM FACE OF THE BRIDGE
       AS SECTION 24.086 WITH PSXECE = -1.3.

NC                                  0.3       0.5
X1   24.086      12.     9972.    10044.      450.      560.      512.                -1.3
X3      10.                                                          1463.7    1463.7
GR   1470.1     9942.    1464.1     9955.    1454.9     9972.    1454.9    10044.     1456.    10052.
GR   1458.5    10064.    1461.9    10091.    1463.7    10108.    1465.7    10123.    1466.1    10136.
GR   1466.4    10155.    1467.4    10310.

SB      0.9     1.56        3.      100.      71.6        3.      590.        0.    1453.6    1453.6
X1   24.096                                     56.       56.       56.

       ELTRD IS 1464.7+2HV = 1466.7

X2                          1.    1462.2    1466.7
X3      10.                                                          1466.     1466.

X1   24.106      13.     9955.    10064.       80.       20.       53.
GR   1470.1     9942.    1464.1     9955.    1455.2     9972.    1454.7     9997.    1454.2    10000.
GR   1454.9    10028.     1456.    10052.    1458.5    10064.    1461.9    10091.    1463.7    10108.
GR   1465.7    10123.    1466.1    10136.    1466.4    10155.

NC                                  0.1       0.3
X1   24.195      13.     9933.    10142.      470.      460.      470.
GR   1498.7     9862.    1497.1     9889.    1470.4     9933.    1454.1     9961.    1453.6     9996.
GR   1453.6    10000.    1453.9    10032.    1455.5    10052.    1456.3    10073.    1458.8    10093.
GR   1462.3    10117.    1466.4    10142.    1468.9    10164.

X1   24.322      11.     9871.    10064.      640.      630.      671.
GR   1473.7     9820.    1463.5     9871.    1453.2     9895.    1451.6     9972.    1452.1    10000.
GR   1454.5    10042.    1456.8    10064.    1457.7    10134.    1459.6    10177.    1465.2    10220.
GR   1470.9    10262.
```

```
NC    0.045     0.045     0.045
X1   24.444       16.     9928.    10122.      640.      600.      644.
GR   1478.8     9885.    1478.7     9906.    1465.     9928.    1457.6     9939.     1458.     9972.
GR   1457.3     9995.    1457.7    10000.    1459.1    10027.    1460.4    10064.    1459.3    10097.
GR   1461.7    10122.    1458.9    10142.    1460.7    10166.    1460.3    10180.    1468.5    10215.
GR   1474.2    10230.

X1   24.542       20.     9914.    10187.      470.      530.      517.
GR   1488.2     9844.     1464.     9914.    1463.2     9948.    1460.4     9968.    1459.8     9996.
GR   1459.8    10000.    1461.4    10017.    1462.3    10033.    1470.7    10056.    1470.3    10083.
GR   1472.2    10112.    1470.9    10127.    1464.4    10141.    1462.5    10166.     1463.    10171.
GR   1464.7    10175.    1467.8    10187.    1473.8    10237.    1475.2    10268.    1478.9    10283.
```

THE DEER VALLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL CROSS SECTION. THE DEER VALLEY ROAD CENTERLINE IS AT RM 24.635.

```
X1   24.635        8.     9876.    10111.      650.      220.      491.
GR   1480.9     9752.    1474.5     9876.    1467.     9983.    1466.8    10000.    1467.9    10037.
GR   1472.4    10111.    1478.6    10193.    1480.1    10247.

QT       3.     3000.     4500.     5200.
```

DIVIDED FLOW OCCURS FROM SECTION 24.738 TO 25.163. ALTHOUGH THE RIGHT OVERBANK IS SOMETIMES LOWER THAN THE CHANNEL, EFFECTIVE FLOW IS CONTROLLED DOWNSTREAM AT SECTION 24.738. OVERBANK LOW ELEVATIONS ARE ARTIFICIALLY ADJUSTED AT SECTIONS 24.838 TO 25.163 TO YIELD QROB = QROB AT SECTION 24.738 + QR - 10%. NATURAL CONDITIONS AT SECTION 25.048 RESULT IN A QROB THAT IS LESS THAN SECTION 24.738.

```
X1   24.738       21.     9897.    10038.      350.      630.      544.
GR   1490.4     9703.    1489.7     9717.    1479.2     9736.    1479.3     9805.    1477.7     9884.
GR   1481.2     9897.    1477.6     9931.    1472.8     9965.    1472.3     9986.     1472.    10000.
GR   1473.5    10023.    1480.9    10038.    1476.7    10045.    1480.8    10067.    1477.6    10079.
GR   1473.6    10088.    1473.6    10127.    1472.5    10224.    1474.4    10291.    1473.6    10330.
GR   1477.6    10343.

X1   24.838       20.     9945.    10019.      470.      450.      528.
  1488.5   9909.  1483.8   9945.  1477.7   9986.  1474.8   9991.  1474.7  10000.
   1475.  10004.  1483.5  10019.  1477.3  10032.  1479.5  10066.  1469.1  10111.
  1467.6  10133.  1468.5  10162.  1472.5  10185.  1469.9  10199.  1469.7  10219.
   1470.  10270.   1466.  10365.   1466.  10450.   1468.  10630.   1490.  10660.
GR   1488.5     9909.    1483.8     9945.    1477.7     9986.    1474.8     9991.    1474.7    10000.
GR    1475.    10004.    1483.5    10019.     1479.    10032.    1479.5    10066.     1479.    10111.
GR    1479.    10133.     1479.    10162.     1479.    10185.     1479.    10199.     1479.    10219.
GR    1479.    10270.     1479.    10365.     1479.    10450.     1479.    10630.     1490.    10660.

X1   24.943       17.     9983.    10017.      530.      570.      554.
  1504.8   9651.  1494.9   9694.  1493.1   9736.  1481.7   9813.  1480.7   9926.
  1482.4   9945.  1481.8   9983.   1478.   9990.  1477.9  10000.  1477.7  10004.
  1484.8  10017.  1483.6  10032.  1478.1  10044.   1470.  10080.   1470.  10540.
   1480.  10610.  1503.3  10690.
GR   1504.8     9651.    1494.9     9694.    1493.1     9736.    1481.7     9813.    1480.7     9926.
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GR   1482.4     9945.     1481.8     9983.      1478.      9990.      1477.9     10000.     1477.7     10004.
GR   1484.8    10017.     1483.6    10032.      1481.     10044.       1481.     10080.      1481.     10540.
GR    1481.    10610.     1503.3    10690.

X1   25.048       23.      9966.     10017       580.       520.       554.
GR   1497.2     9659.     1493.6     9692.     1486.7      9707.      1486.      9817.      1486.      9941.
GR   1486.6     9966.     1485.7     9981.      1484.      9986.      1484.     10000.     1493.6     10017.
GR   1488.3    10026.      1486.    10062.     1485.4     10154.     1486.5     10223.     1483.7     10232.
GR   1484.6    10247.      1488.    10258.     1487.5     10405.     1492.2     10420.      1489.     10431.
GR    1484.    10450.      1484.    10470.      1500.     10525.

QT       3.     2900.      4300.     4900.
X1   25.163       16.      9972.     10025.       640.       580.       607.
  1499.3   9878.  1492.6   9917.  1490.2   9947.  1489.9   9965.  1491.6   9972.
  1486.2   9984.  1486.3  10000.   1486.  10005.  1493.1  10025.  1485.3  10044.
  1486.3  10088.  1486.3  10147.  1486.4  10220.  1488.4  10291.  1498.8  10312.
  1499.8  10417.
GR   1499.3     9878.     1492.6     9917.     1490.2      9947.     1489.9      9965.     1491.6      9972.
GR   1486.2     9984.     1486.3    10000.      1486.     10005.     1493.1     10025.      1489.     10044.
GR    1489.    10088.      1489.    10147.      1489.     10220.      1489.     10291.     1498.8     10312.
GR   1499.8    10417.
```

THE BREAKOUT IN THE RIGHT OVERBANK IS NOT EFFECTIVE DUE TO DOWNSTREAM PONDING. HIGH ARTIFICIAL LEVEES HAVE BEEN SET ON THE RIGHT AT SECTIONS 25.262, 25.374, AND 25.434.

```
X1   25.262       28.      9948.     10030.       470.       570.       523.
X3      10.                                                                     1491.6      1510.
GR   1503.2     9465.     1506.4     9470.     1489.6      9513.     1490.2      9547.     1492.2      9618.
GR   1491.5     9646.     1492.7     9689.     1492.6      9707.     1490.5      9823.     1491.6      9948.
GR   1489.1     9969.     1493.6     9987.     1490.2     10000.     1490.8     10016.     1496.8     10030.
GR   1488.4    10044.     1487.4    10059.      1486.     10070.     1484.4     10260.      1486.     10380.
GR    1492.    10420.      1492.    10450.      1484.     10475.       1484.     10510.      1488.     10535.
GR    1486.    10575.      1488.    10585.      1494.     10610.

X1   25.374       16.      9969.     10023.       680.       300.       591.
X3      10.                                                                     1499.3
GR    1510.     9628.     1498.2     9659.      1496.      9704.     1495.7      9838.     1496.2      9920.
GR    1496.     9933.     1497.8     9944.     1497.8      9950.     1495.6      9955.     1496.7      9963.
GR   1499.3     9969.     1493.5     9986.     1493.3     10000.     1493.5     10011.     1498.8     10023.
GR    1510.   10023.1

NC     0.05     0.035      0.035
X1   25.434       14.      9968.     10036.       400.       190.       317.
X3      10.                                                                     1504.9
GR   1511.5     9463.     1506.8     9561.     1504.8      9631.     1504.9      9716.     1502.      9788.
GR   1501.3     9885.     1500.8     9942.     1500.6      9954.     1504.9      9968.     1496.8      9990.
GR   1496.6    10000.     1495.8    10018.      1504.     10036.      1510.    10036.1
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X1   25.500       9.     9908.    10105.      250.      420.      349.
GR   1511.5    9908.    1506.9     9927.    1504.5     9943.    1499.9     9957.    1497.7    10000.
GR   1498.5   10025.    1503.7    10061.    1507.7    10094.     1509.    10105.

        CAP CANAL OVERSHOOT STRUCTURE


NC                                   0.3       0.5

              SECTION IN DOWNSTREAM OUTLET OF OVERSHOOT IN STILLING POOL

X1   25.523       9.     9963.    10037.      120.      120.      121.
GR    1510.    9900.     1508.     9930.    1498.     9950.     1498.     9963.     1496.     9964.
GR    1496.   10036.     1498.    10037.    1498.    10050.     1510.    10100.

              SECTION AT DOWNSTREAM CREST OF OVERSHOOT WHERE FLOW PASSES
              THROUGH CRITICAL DEPTH.


NC    0.05    0.035     0.015
X1   25.534       4.     9963.    10037.       58.       58.       58.
GR    1515.    9963.   1505.54     9964.   1505.54    10036.     1515.    10037.

              SECTION AT UPSTREAM END OF NARROW CHUTE.


X1   25.551                                     90.       90.       90.

              SECTION AT UPSTREAM FLARED ENTRANCE TO OVERSHOOT.


X1   25.557       4.     9954.    10046.       32.       32.       32.
GR    1515.    9954.   1505.54     9973.   1505.54    10027.     1515.    10046.

              NATURAL SECTION UPSTREAM OF OVERSHOOT.


NC    0.035    0.035     0.035
QT       3.    1700.     2500.     2900.
X1   25.561       5.     9948.    10069.       20.       20.       21.
GR   1514.9    9948.    1505.6     9971.   1505.7    10000.    1506.3    10048.    1515.2    10069.

NC                                   0.1       0.3
QT       3.    1600.     2300.     2700.
X1   25.680      36.     9927.    10093.      580.      660.      628.
GR   1519.8    9136.    1518.8     9203.   1516.1     9267.    1515.7     9325.    1515.7     9359.
GR   1516.7    9372.    1514.9     9462.   1514.2     9504.    1515.2     9516.    1515.6     9559.
GR   1515.7    9593.     1515.     9622.   1516.9     9637.    1515.3     9653.    1512.1     9664.
GR   1512.4    9688.    1513.8     9704.   1518.5     9720.    1510.6     9747.    1514.3     9796.
GR   1513.9    9866.    1514.4     9927.   1508.7     9946.    1511.3     9961.    1511.2     9985.
GR   1506.5    9997.    1506.8    10000.   1506.8    10011.    1510.5    10022.    1511.1    10057.
GR   1509.6   10063.    1511.2    10093.   1512.4    10167.     1510.    10278.    1508.7    10295.
GR   1534.1   10338.
```

QT	3.	1500.	2200.	2500.						
X1	25.786	32.	9978.	10056.	600.	470.	560.			
X3	10.							1518.9		
GR	1522.7	9477.	1522.5	9507.	1515.5	9529.	1515.7	9575.	1514.1	9667.
GR	1514.3	9705.	1513.4	9736.	1517.	9753.	1516.8	9776.	1517.2	9794.
GR	1513.5	9822.	1516.2	9837.	1512.2	9848.	1516.5	9872.	1514.6	9883.
GR	1517.	9913.	1517.	9922.	1515.2	9944.	1518.9	9964.	1518.9	9978.
GR	1511.2	9990.	1511.4	10000.	1510.7	10010.	1514.5	10020.	1512.2	10041.
GR	1515.8	10056.	1515.3	10189.	1517.3	10353.	1515.1	10418.	1514.	10435.
GR	1514.2	10440.	1532.8	10465.						
QT	3.	1400.	2000.	2300.						
X1	25.947	14.	9950.	10066.	870.	830.	850.			
GR	1524.	9816.	1522.7	9917.	1522.7	9950.	1518.8	9971.	1518.3	9986.
GR	1514.4	10000.	1514.5	10011.	1518.4	10028.	1519.7	10037.	1520.6	10066.
GR	1519.3	10107.	1518.2	10113.	1518.8	10119.	1529.5	10139.		
QT	3.	1300.	1900.	2200.						
X1	26.058	15.	9966.	10024.	540.	570.	586.			
GR	1529.2	9598.	1526.6	9747.	1527.1	9765.	1526.	9790.	1523.3	9845.
GR	1522.1	9904.	1521.1	9927.	1521.	9951.	1522.	9966.	1520.8	9976.
GR	1517.4	10000.	1516.2	10010.	1516.8	10014.	1524.	10024.	1541.9	10048.
QT	3.	1200.	1700.	2000.						
X1	26.152	13.	9956.	10069.	240.	550.	496.			
GR	1530.2	9789.	1529.9	9847.	1527.3	9895.	1525.4	9956.	1522.3	9972.
GR	1520.	9982.	1520.1	10000.	1520.5	10018.	1522.2	10050.	1526.	10069.
GR	1530.7	10102.	1531.9	10114.	1533.1	10139.				
QT	3.	1100.	1600.	1900.						
X1	26.265	10.	9955.	10029.	580.	610.	597.			
GR	1533.9	9829.	1533.6	9913.	1534.3	9916.	1531.7	9955.	1523.8	9995.
GR	1522.	10000.	1522.5	10010.	1524.8	10015.	1526.5	10029.	1529.5	10115.
QT	3.	1000.	1500.	1700.						
X1	26.372	14.	9966.	10080.	600.	510.	565.			
GR	1558.5	9909.	1544.2	9928.	1535.7	9945.	1531.6	9966.	1528.4	9981.
GR	1525.9	9990.	1523.9	9995.	1523.8	10000.	1527.3	10016.	1526.6	10034.
GR	1529.9	10055.	1533.8	10080.	1534.6	10100.	1535.5	10116.		
QT	3.	900.	1300.	1600.						
X1	26.492	17.	9866.	10084.	640.	610.	634.			
GR	1539.5	9819.	1538.5	9851.	1537.5	9866.	1533.3	9880.	1530.9	9891.
GR	1530.2	9920.	1527.7	9953.	1525.8	9972.	1525.8	9994.	1525.7	10000.
GR	1526.2	10019.	1528.4	10039.	1530.4	10062.	1534.8	10078.	1536.	10084.
GR	1536.4	10097.	1537.1	10100.						
NC	0.04	0.04	0.03							
X1	26.582	37.	9869.	10028.	460.	480.	475.			
GR	1538.6	9388.	1538.3	9411.	1535.	9445.	1532.2	9471.	1530.3	9493.
GR	1526.4	9510.	1525.5	9519.	1525.3	9539.	1526.3	9568.	1526.5	9602.
GR	1527.2	9622.	1526.7	9655.	1527.3	9691.	1526.9	9725.	1527.2	9752.
GR	1527.4	9786.	1528.1	9817.	1527.9	9845.	1528.2	9869.	1526.9	9894.

GR	1524.1	9911.	1524.9	9937.	1525.2	9958.	1525.6	9983.	1525.7	10000.
GR	1526.	10014.	1527.2	10028.	1526.4	10047.	1527.2	10086.	1526.5	10123.
GR	1526.8	10140.	1528.8	10157.	1528.8	10176.	1533.8	10195.	1536.6	10211.
GR	1536.7	10224.	1537.5	10226.						
QT	3.	700.	1100.	1300.						
X1	26.673	44.	9955.	10077.	510.	460.	480.			
X3	10.							1535.		
GR	1549.8	9490.	1541.8	9544.	1534.8	9585.	1533.1	9600.	1531.8	9629.
GR	1530.8	9656.	1530.5	9681.	1530.5	9715.	1530.5	9748.	1531.1	9773.
GR	1532.3	9803.	1532.9	9829.	1532.6	9851.	1532.1	9868.	1532.7	9898.
GR	1532.9	9922.	1532.6	9944.	1534.3	9955.	1532.6	9970.	1532.7	9988.
GR	1532.8	10000.	1531.8	10013.	1532.6	10023.	1532.2	10047.	1531.9	10061.
GR	1533.2	10077.	1533.2	10105.	1534.5	10130.	1536.4	10141.	1537.8	10149.
GR	1537.4	10165.	1536.9	10192.	1533.6	10205.	1533.2	10237.	1533.2	10265.
GR	1534.2	10285.	1534.8	10304.	1535.1	10331.	1535.6	10348.	1539.7	10359.
GR	1539.2	10378.	1539.9	10387.	1552.	10411.	1550.3	10420.		
QT	3.	700.	1000.	1100.						
X1	26.784	29.	9975.	10080.	590.	530.	586.			
GR	1556.2	9628.	1553.4	9629.	1551.5	9652.	1550.5	9674.	1549.6	9695.
GR	1548.7	9721.	1549.2	9749.	1548.9	9783.	1549.4	9822.	1549.5	9859.
GR	1549.4	9898.	1549.7	9925.	1550.7	9951.	1551.2	9975.	1542.7	9985.
GR	1543.2	10000.	1544.4	10019.	1545.4	10045.	1550.2	10069.	1551.5	10080.
GR	1550.8	10091.	1551.	10110.	1551.	10132.	1550.9	10150.	1551.	10162.
GR	1552.5	10191.	1552.7	10228.	1552.	10271.	1551.9	10279.		
QT	3.	600.	900.	1000.						
X1	26.883	21.	9773.	10122.	530.	500.	523.			
GR	1555.5	9726.	1549.5	9759.	1544.7	9773.	1542.	9791.	1540.1	9803.
GR	1540.1	9895.	1540.1	10000.	1540.1	10062.	1540.6	10074.	1541.3	10093.
GR	1542.8	10122.	1542.6	10148.	1542.5	10166.	1544.1	10179.	1546.3	10194.
GR	1549.	10209.	1553.7	10235.	1555.3	10255.	1557.4	10265.	1557.4	10279.
GR	1556.2	10282.								
QT	3.	400.	700.	900.						
X1	26.984	32.	9943.	10170.	480.	460.	533.			
GR	1560.6	9811.	1559.7	9833.	1557.2	9861.	1554.5	9891.	1549.4	9920.
GR	1545.5	9943.	1543.8	9953.	1542.3	9968.	1542.1	10000.	1545.1	10012.
GR	1540.6	10023.	1540.6	10107.	1540.6	10124.	1541.7	10135.	1540.5	10147.
GR	1540.5	10156.	1546.5	10170.	1547.3	10189.	1547.5	10203.	1547.7	10218.
GR	1546.7	10231.	1543.5	10241.	1542.8	10256.	1542.3	10271.	1542.3	10282.
GR	1544.6	10290.	1543.4	10300.	1543.3	10310.	1544.8	10323.	1545.3	10333.
GR	1558.9	10356.	1551.6	10369.						
X1	27.060	33.	9980.	10019.	270.	470.	401.			
X3	10.							1565.		
GR	1566.5	9583.	1559.9	9608.	1557.5	9614.	1557.6	9617.	1560.3	9624.
GR	1560.6	9643.	1560.9	9670.	1559.8	9683.	1559.6	9706.	1560.	9720.
GR	1559.4	9740.	1559.5	9772.	1560.4	9795.	1560.	9824.	1558.8	9852.
GR	1558.7	9879.	1558.9	9895.	1558.5	9911.	1559.2	9940.	1560.	9954.
GR	1559.7	9963.	1560.6	9967.	1560.8	9980.	1554.6	9997.	1554.1	10000.
GR	1555.1	10005.	1562.6	10019.	1562.2	10040.	1562.1	10056.	1563.4	10068.
GR	1565.2	10081.	1566.	10093.	1563.9	10103.				

```
QT      3.      300.      500.      600.
X1   27.166      36.     9977.    10023.      560.      560.      560.
X3      10.                                                     1565.     1565.
GR    1572.     9622.    1572.2     9639.    1571.5     9661.    1569.4     9686.    1568.5     9709.
GR   1568.1     9719.    1568.4     9730.    1567.4     9742.    1567.1     9762.    1567.9     9772.
GR   1568.8     9787.    1567.6     9811.    1566.7     9830.     1566.     9847.    1562.3     9858.
GR   1558.7     9868.    1557.6     9870.    1558.4     9872.    1560.6     9875.    1560.9     9884.
GR   1560.9     9911.    1560.8     9943.    1560.7     9955.    1564.2     9963.    1564.2     9977.
GR   1555.2     9995.    1555.2    10000.    1555.2    10008.    1563.9    10023.    1563.9    10038.
GR   1561.1    10043.    1561.1    10067.    1560.8    10098.    1560.9    10129.    1561.5    10142.
GR   1562.8    10146.
```

SECTION 27.294 IS NEAR THE DOWNSTREAM OUTLET OF CAVE BUTTE DAM.

```
QT      3.      200.      300.      400.
X1   27.294      26.     9967.    10027.      710.      630.      676.
GR   1591.6     9811.    1589.8     9827.    1587.9     9839.    1589.7     9851.    1588.2     9870.
GR   1585.6     9883.    1584.2     9888.    1584.4     9900.    1583.9     9914.    1568.3     9948.
GR   1565.9     9954.    1565.2     9967.    1558.3     9980.    1557.2     9984.    1556.2     9987.
GR    1556.    10000.     1556.    10007.    1564.6    10027.    1565.6    10037.     1573.    10054.
GR   1572.8    10074.    1573.4    10093.     1574.    10112.     1575.    10135.    1575.4    10163.
GR   1575.6    10171.
```

THE CENTERLINE OF CAVE BUTTE DAM IS AT RM 27.365.

FOLLOWING IS THE TRIBUTARY RUN FOR THE EAST FORK OF CAVE CREEK WASH.

SECTION 19.56 IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST FORK. THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE EAST FORK OF CAVE CREEK. THE CONFLUENCE OCCURS AT RM 19.608

```
NC   0.035     0.035     0.035       0.1       0.3
QT      3.     8400.    12700.    14600.
X1   -19.56      17.     9929.    10065.      730.      720.      729.
GR   1346.1     9801.    1329.7     9902.    1329.7     9929.    1316.5     9950.    1316.8     9978.
GR   1315.6    10000.    1315.6    10008.    1316.6    10026.    1316.4    10035.    1317.5    10043.
GR   1330.6    10065.    1330.8    10099.    1330.5    10146.    1330.2    10195.    1330.9    10208.
GR   1331.2    10223.    1332.1    10301.
```

SECTION 0.029 IS JUST UPSTREAM OF THE CONFLUENCE WITH CAVE CREEK WASH. SECTION 19.556 DOWNSTREAM IN THE WASH IS USED TO START THE RUN ON THE EAST FORK.

```
QT      3.      5500.     8300.     9500.
NC   0.035      0.035     0.015
X1   0.029        15.     9942.    10043.      380.      450.      430.
GR  1336.7      9849.    1332.4     9893.    1329.5     9942.    1326.3     9954.    1326.3     9963.
GR  1319.8      9982.    1319.6     9995.    1319.6    10000.    1319.6    10019.    1328.2    10043.
GR   1330.     10090.    1330.3    10128.    1332.4    10166.    1333.1    10216.    1333.1    10217.

NC   0.035      0.035      0.03
X1   0.112        22.     9837.    10101.      430.      450.      483.
GR  1357.6      9597.    1333.1     9743.    1332.6     9804.    1332.     9816.    1331.8     9863.
GR  1332.1      9887.    1329.4     9906.    1329.4     9915.    1323.4    9937.    1322.3     9949.
GR  1321.5      9985.    1321.6     9999.    1321.6    10000.     1322.    10037.    1323.2    10049.
GR  1329.3     10076.    1334.8    10101.    1334.8    10139.    1333.4    10214.    1334.8    10286.
GR  1334.5     10320.    1334.5    10321.

X1   0.198        26.     9897.    10133.      460.      420.      454.
GR  1334.8      9569.    1336.5     9570.    1335.1     9591.    1335.7     9694.    1333.8     9754.
GR  1333.3      9863.    1332.4     9897.    1329.4     9916.    1325.5     9937.    1323.8     9965.
GR  1324.5      9981.    1324.8     9999.    1324.8    10000.    1324.1    10044.    1324.5    10058.
GR  1328.8     10085.    1328.8    10093.    1336.3    10122.    1337.8    10133.     1336.    10138.
GR  1337.3     10170.    1337.1    10262.     1337.    10356.    1345.1    10370.    1337.1    10382.
GR  1336.7     10417.

X1   0.288        20.     9885.    10069.      470.      460.      475.
GR  1338.2      9550.    1337.6     9684.    1336.1     9733.    1336.9     9848.     1336.     9885.
GR  1328.9      9933.    1326.6     9954.    1325.9     9978.    1325.7    10000.    1328.5    10026.
GR  1335.9     10069.    1335.9    10078.    1336.7    10089.    1336.2    10101.     1338.    10213.
GR  1339.6     10443.    1347.3    10459.     1341.    10472.    1341.9    10485.    1339.9    10517.

X1   0.390        19.     9904.    10119.      600.      540.      581.
GR  1340.2      9739.    1340.7     9804.    1339.3     9843.    1338.9     9904.    1330.2     9949.
GR  1329.4      9979.    1328.8    10000.    1329.7    10061.    1338.1    10098.    1338.1    10105.
GR  1340.6     10119.    1338.4    10126.    1338.6    10168.    1340.5    10175.    1339.9    10190.
GR  1339.7     10352.    1339.2    10456.    1339.5    10478.    1339.8    10533.

X1   0.482        20.     9937.    10024.      440.      270.      444.
GR   1347.      9903.    1341.4     9904.    1341.1     9937.    1337.1     9953.    1333.4     9962.
GR  1331.2      9988.    1331.3    10000.    1331.3    10008.     1338.    10024.    1340.8    10093.
GR  1340.9     10125.    1341.6    10161.    1340.4    10236.    1341.6    10256.     1340.    10291.
GR  1341.1     10315.    1340.9    10402.    1341.5    10528.    1341.5    10640.     1343.    10910.

X1   0.575        19.     9869.    10049.      460.      500.      491.
GR   1348.      9777.    1342.8     9778.    1340.2     9869.    1337.1     9896.    1341.1     9944.
GR  1337.8      9977.    1331.7     9990.    1331.5     9997.    1331.5    10000.     1332.    10011.
GR  1338.9     10023.    1343.1    10049.    1342.5    10105.    1343.5    10113.    1342.9    10186.
GR  1341.8     10239.     1342.    10274.    1343.2    10411.    1345.4    10755.

QT      3.      5500.     8200.     9400.
X1   0.697        16.     9847.    10023.      640.      640.      644.
GR  1346.4      9847.    1345.3     9855.    1338.8     9882.    1338.1     9888.     1339.     9900.
GR  1340.4      9912.    1343.4     9919.    1341.4     9921.    1339.9     9950.    1334.9     9967.
GR  1334.6     10000.     1334.    10007.    1341.4    10023.    1343.8    10061.    1345.4    10102.
GR  1346.4     10237.
```

```
NC    0.035     0.035     0.035
X1    0.826       11.      9929.    10050.      680.      660.      681.
GR   1349.5     9815.    1346.4     9893.    1345.5     9929.    1342.7     9969.    1338.8     9974.
GR   1338.8     9988.    1338.8    10000.    1339.2    10009.    1349.5    10050.    1350.1    10066.
GR    1351.    10219.

X1    0.945       20.      9856.    10034.      680.      600.      628.
GR   1352.7     9469.    1352.6     9548.    1351.8     9674.    1351.8     9704.     1349.     9769.
GR   1349.8     9819.    1349.5     9843.    1348.6     9856.    1345.5     9866.    1346.8     9929.
GR   1347.7     9956.    1340.4     9978.    1340.8    10000.    1340.8    10008.    1349.5    10034.
GR   1350.1    10046.    1350.1    10100.    1352.8    10215.    1353.4    10254.     1353.    10284.

X1    1.035       22.      9841.    10022.      440.      460.      475.
GR    1354.     9670.    1350.5     9723.    1352.3     9776.    1352.     9795.    1348.6     9823.
GR   1348.4     9832.    1350.8     9841.    1348.1     9844.    1349.2     9871.    1349.4     9908.
GR   1345.9     9921.    1348.6     9941.    1348.1     9948.    1343.9     9966.    1343.3     9983.
GR   1342.3     9992.    1341.9    10000.    1348.8    10022.    1351.2    10046.    1352.5    10059.
GR   1352.4    10100.     1353.    10153.

NC     0.04      0.04      0.04
X1    1.121       19.      9868.    10069.      480.      440.      454.
GR   1355.2     9850.     1355.     9868.    1348.4     9897.    1346.1     9910.    1345.9     9931.
GR   1346.4     9955.    1345.1     9966.    1343.6     9994.    1343.6    10000.    1348.1    10015.
GR   1348.8    10036.    1350.6    10048.    1351.1    10059.    1353.6    10069.    1354.1    10082.
GR   1354.2    10121.     1355.    10134.    1355.1    10173.     1355.    10175.

X1    1.204       16.      9949.    10043.      430.      450.      438.
GR   1355.4     9930.    1355.6     9949.    1348.3     9964.    1348.3     9978.    1344.3     9991.
GR   1344.3     9995.    1344.8    10000.    1348.3    10027.    1352.5    10043.    1353.8    10057.
GR   1353.7    10072.    1353.5    10098.    1354.2    10165.    1356.1    10178.    1355.8    10262.
GR   1356.3    10334.

QT       3.     5300.     7900.     9100.
X1    1.315       17.      9904.    10074.      720.      700.      734.
GR   1359.7     9904.    1352.7     9916.    1350.3     9931.    1348.8    10000.    1351.1    10012.
GR   1351.6    10028.    1353.4    10043.    1353.4    10056.    1356.5    10064.     1359.    10074.
GR   1357.8    10085.     1358.    10091.     1358.    10130.     1352.    10150.     1352.    10170.
GR    1358.    10230.     1360.    10240.
  0.035   0.035   0.025
```

PER INTERIM FEMA REVIEW COMMENT, TIE THIS STUDY TO THE PREVIOUS FEMA MODEL. CROSS SECTION 1.420 IN THIS MODEL IS TAKEN AT THE SAME LOCATION AS CROSS SECTION "M" ON THE FIRM MAP REVISED SEPTEMBER 29 1989, PLOTTED AT RIVER MILE 1.445. THIS CROSS SECTION CORRESPONDS TO CROSS SECTION 1.492 IN THE 1980 HEC-2 MODEL THAT WAS USED TO DEVELOP THE SEPTEMBER 29, 1989 REVISED FIRM.

ELEVATIONS COMPUTED BY THIS MODEL ARE COMPARED TO ELEVATIONS COMPUTED FOR THE PREVIOUS FLOOD INSURANCE STUDY (REVISED SEPT. 29,1989) ARE SHOWN IN THE TABLE BELOW:

	10 YEAR	50 YEAR	100 YEAR
PREVIOUS STUDY	1359.3	-	1361.0

THIS MODEL	1360.65	1371.17	1361.34
SET BY X5 CARD	1359.3	1360.7	1361.0

100 YEAR FLOOD ELEVATIONS AGREE WITHIN 0.5 FEET. 10 YEAR FLOOD ELEVATIONS DISAGREE DUE TO REVISIONS TO HYDROLOGY SINCE THE PREVIOUS STUDY, PRIMARILY DUE TO INCREASED URBANIZATION OF THE WATERSHED. SINCE THE 100 YEAR BASE FLOOD IS WITHIN ACCEPTABLE AGREEMENT, FLOOD ELEVATIONS AT THE LIMIT OF DETAILED STUDY HAVE BEEN SET BY X5 CARD TO AGREE WITH THE PREVIOUS STUDY. THE 50 YEAR ELEVATIO N, NOT PREVIOUSLY COMPUTED, HAS BEEN INTERPOLATED.

FOLLOWING IS SECTION 1.420 FROM CURRENT TOPO

```
1.420      9.   9895.  10085.    380.    420.    407.
1364.   9860.   1362.   9870.   1360.   9895.   1356.   9910.  1354.9  10000.
1356.  10070.   1360.  10085.   1362.  10100.   1364.  10120.
```

FOLLOWING IS SECTION 1.420 BASED UPON THE PREVIOUS STUDY
THE QT CARD IS BASED ALSO ON THE PREVIOUS STUDY
THE NC VALUES ARE ADJUSTED TO ALLOW USE OF THE X5
WITHOUT BEING OVERRIDDEN BY CRITICAL DEPTH.

```
QT      3.     2200.     5900.     8400.
NC    0.02      0.02      0.02
X1   1.420       25.     9970.    10010.       380.       420.       407.
X5      3.    1359.3    1360.7    1361.0
GR   1362.     9430.     1360.     9680.      1358.      9745.      1356.      9760.      1356.      9790.
GR   1358.    9790.1     1359.     9810.      1359.      9930.      1358.      9970.      1354.      9980.
GR   1354.   10009.9     1358.    10010.      1360.     10060.      1360.     10195.      1360.     10260.
GR   1360.    10315.     1360.    10330.      1360.     10360.      1360.     10420.      1361.     10460.
GR   1361.    10720.     1360.    10770.      1360.     10775.      1360.     10780.      1364.     10800.
```

```
   SECNO    DEPTH    CWSEL    CRIWS    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


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 15.015
   15.015    10.31  1216.00      .00  1216.17  1217.43     1.43      .00      .00  1228.30
   10300.       0.   10300.       0.       0.    1073.       0.       0.       0.   1206.79
      .00      .00     9.60      .18     .000     .015     .015     .000  1205.69  9945.06
  .000502       0.       0.       0.        0        0        3      .00   109.99 10055.05


*SECNO 15.109
   15.109    10.31  1216.25      .00      .00  1217.68     1.43      .25      .00  1228.55
   10300.       0.   10300.       0.       0.    1073.       0.      12.       1.   1207.04
      .01      .00     9.60      .18     .000     .015     .015     .000  1205.94  9945.06
  .000501     500.     500.     500.        0        0        0      .00   109.99 10055.05


*SECNO 15.204
   15.204    10.31  1216.50      .00      .00  1217.93     1.43      .25      .00  1228.80
   10300.       0.   10300.       0.       0.    1073.       0.      25.       3.   1207.29
      .03      .00     9.60      .18     .000     .015     .015     .000  1206.19  9945.06
  .000501     500.     500.     500.        0        0        0      .00   109.99 10055.05


*SECNO 15.310

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.310     9.50  1216.38  1216.38      .00  1221.02     4.64      .51      .96  1229.50
   10300.       0.   10300.       0.       0.     596.       0.      35.       4.   1230.00
      .04      .00    17.28      .00     .000     .015     .000     .000  1206.88  9967.56
  .002184     560.     560.     560.       20       11        0      .00    64.98 10032.54


*SECNO 15.454

3301 HV CHANGED MORE THAN HVINS
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   SECNO    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.49

   15.454    12.30  1219.56      .00      .00  1222.28     2.72     1.07      .19  1229.88
   10300.       0.   10300.       0.       0.     778.       0.      47.       5.   1230.38
      .05      .00    13.25      .00     .000     .015     .000     .000  1207.26  9967.55
  .000982     760.     760.     760.        4        0        0      .00    65.00 10032.55


*SECNO 15.530

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.530     8.22  1234.42  1234.42      .00  1237.79     3.37      .52      .19  1237.50
   10300.       0.   10300.       0.       0.     699.       0.      54.       6.   1238.45
      .06      .00    14.74      .00     .000     .015     .000     .000  1226.20  9947.65
  .001843     400.     400.     400.       20       14        0      .00   104.79 10052.44


*SECNO 15.680
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.680     8.22  1237.77  1237.77      .00  1241.14     3.37     1.46      .09  1240.85
   10300.       0.   10300.       0.       0.     699.       0.      67.       7.   1241.80
      .08      .00    14.73      .00     .000     .015     .000     .000  1229.55  9947.64
  .001841     792.     792.     792.       20        5        0      .00   104.80 10052.45


*SECNO 15.878
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.878     7.80  1241.67  1241.67      .00  1244.88     3.20     1.92      .02  1244.70
   10300.       0.   10300.       0.       0.     717.       0.      84.      10.   1244.71
      .10      .09    14.36      .00     .000     .015     .000     .000  1233.87  9944.06
  .001832    1045.    1045.    1045.       20        8        0      .00   111.87 10055.93
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 15.920
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.920     7.77  1242.61  1242.61      .00  1245.85     3.23      .42      .01  1245.67
   10300.      0.   10300.       0.       0.     714.       0.      88.      11.   1245.68
      .10      .00    14.43      .00     .000     .015     .000     .000  1234.84  9944.12
  .001861     225.     225.     225.       20        5        0      .00   111.74 10055.86


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1241.29 , NOT    1242.61 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     .90      1.56      3.00    100.00     82.32      6.00   1447.00      1.84   1235.45   1235.07

*SECNO 15.940

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.53

CLASS B LOW FLOW

3420 BRIDGE W.S.=    1243.00 BRIDGE VELOCITY=      14.69     CALCULATED CHANNEL AREA=       681.

 EGPRS      ESLWC       H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                                 AREA
      .00   1246.85      .00        0.    10300.     1447.     1448.     1249.60   1253.60        0.


   15.940     9.80  1245.02      .00      .00  1246.85     1.83     1.00      .00  1246.05
   10300.      0.   10300.       0.       0.     948.       0.      89.      11.   1246.06
      .10      .00    10.86      .00     .000     .015     .000     .000  1235.22  9940.06
  .000798     100.     100.     100.        0        0        0      .00   119.85 10059.92


*SECNO 16.023

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   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


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.023     9.85  1247.30  1247.30      .00  1251.05     3.75      .51      .57  1252.50
   10300.       0.   10300.       0.       0.     663.       0.     98.      12.   1251.95
      .11      .00    15.53      .00     .000     .015     .000     .000  1237.45  9955.47
  .001802     441.     441.     441.       20        5        0      .00    89.17 10044.64


*SECNO 16.148
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.148     9.84  1250.08  1250.08      .00  1253.84     3.76     1.19      .00  1255.29
   10300.       0.   10300.       0.       0.     662.       0.    108.      13.   1254.74
      .12      .00    15.55      .00     .000     .015     .000     .000  1240.24  9955.49
  .001809     660.     660.     660.       20        5        0      .00    89.13 10044.62


*SECNO 16.264
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.264     9.84  1252.67  1252.67      .00  1256.43     3.75     1.11      .00  1257.88
   10300.       0.   10300.       0.       0.     662.       0.    117.      15.   1257.33
      .13      .00    15.55      .00     .000     .015     .000     .000  1242.83  9955.49
  .001807     612.     612.     612.       20        5        0      .00    89.14 10044.62


*SECNO 16.373
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.373     9.84  1255.10  1255.10      .00  1258.86     3.75     1.04      .00  1260.31
   10300.       0.   10300.       0.       0.     662.       0.    126.      16.   1259.76
      .14      .00    15.55      .00     .000     .015     .000     .000  1245.26  9955.49
  .001807     576.     576.     576.       20        5        0      .00    89.14 10044.62


*SECNO 16.481
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.481     9.18  1256.77  1256.77      .00  1260.40     3.63     1.04      .01  1261.20
   10200.       0.   10200.       0.       0.     667.       0.    134.      17.   1259.70
      .15      .00    15.29      .00     .000     .015     .000     .000  1247.59  9952.94
  .001826     570.     570.     570.       20       11        0      .00    93.22 10046.16
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    ES       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      ARCB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 16.601
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.601     9.19  1259.45  1259.45      .00  1263.07     3.62     1.16      .00  1263.87
   10200.       0.   10200.       0.       0.     668.       0.     144.      18.   1262.37
      .17      .00    15.26      .00     .000     .015     .000     .000  1250.26  9952.91
  .001817     634.     634.     634.       20        5        0      .00    93.27 10046.18


*SECNO 16.694
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.694     8.63  1260.89  1260.89      .00  1264.36     3.47      .90      .02  1263.90
   10200.       0.   10200.       0.       0.     683.       0.     152.      19.   1264.42
      .18      .00    14.94      .00     .000     .015     .000     .000  1252.26  9950.10
  .001836     491.     491.     491.       20       11        0      .00    99.79 10049.89


*SECNO 16.823
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.823     8.64  1263.78  1263.78      .00  1267.24     3.46     1.25      .00  1266.78
   10200.       0.   10200.       0.       0.     684.       0.     162.      21.   1267.30
      .19      .00    14.92      .00     .000     .015     .000     .000  1255.14  9950.08
  .001828     681.     681.     681.       20        5        0      .00    99.83 10049.91


*SECNO 16.902
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.902     8.73  1264.92  1264.92      .00  1268.25     3.33      .76      .01  1268.80
   10200.       0.   10200.       0.       0.     697.       0.     169.      22.   1270.33
      .20      .00    14.64      .00     .000     .015     .000     .000  1256.19  9947.78
  .001840     417.     417.     417.        3        5        0      .00   105.14 10052.93


*SECNO 16.970
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.970     9.44  1265.80  1265.80      .00  1269.07     3.27      .67      .01  1269.30
   10200.       0.   10200.       0.       0.     703.       0.     175.      23.   1270.78
      .20      .00    14.51      .00     .000     .015     .000     .000  1256.36  9945.29
  .001885     359.     359.     359.        2        8        0      .00   109.44 10054.73
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SECNO	DEPTH	CWSEL	CRIWS	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

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1264.52 , NOT 1265.80 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	82.57	6.00	1513.00	1.61	1258.71	1258.33

*SECNO 16.988

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1266.26 BRIDGE VELOCITY= 14.79 CALCULATED CHANNEL AREA= 670.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1270.01	.00	0.	10200.	1513.	1516.	1273.75	1277.80	0.

16.988	11.76	1268.17	.00	.00	1270.01	1.84	.94	.00	1269.70
10200.	0.	10200.	0.	0.	937.	0.	176.	23.	1270.17
.21	.00	10.88	.00	.000	.015	.000	.000	1256.41	9941.35
.000808	90.	90.	90.	0	0	0	.00	118.32	10059.67

*SECNO 17.061

3301 HV CHANGED MORE THAN HVINS

17.061	11.23	1267.84	.00	.00	1270.75	2.91	.42	.32	1271.30
10200.	0.	10200.	0.	0.	746.	0.	184.	24.	1271.79
.21	.00	13.68	.00	.000	.015	.000	.000	1256.61	9945.21
.001591	380.	380.	380.	3	0	0	.00	110.86	10056.07

*SECNO 17.206

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

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   SECNO    DEPTH    CWSEL    CRIWS    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


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   17.206     4.24  1271.24  1271.24      .00  1273.30     2.06     1.40      .08  1279.00
   10200.       0.   10200.       0.       0.     886.       0.     198.      27.   1279.00
      .23      .00    11.51      .00     .000     .015     .000     .000  1267.00  9891.16
  .002103     769.     769.     769.       20       18        0      .00   217.68 10108.84


*SECNO 17.360
 WATER EL=X5 CARD=   1273.200

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 15.43

   17.360    16.50  1273.20      .00      .00  1273.21      .01      .03      .20  1282.20
   10200.       0.   10200.       0.       0.   11803.       0.     317.      37.   1281.80
      .49      .00      .86      .00     .000     .030     .000     .000  1256.70  9533.68
  .000009     820.     813.     830.        0        0        0      .00   826.44 10360.11


*SECNO 17.494

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   17.494     9.01  1279.31  1279.31      .00  1281.07     1.77      .02      .53  1279.10
    8900.       0.    7981.     919.       0.     720.     158.     419.      46.   1278.50
      .51      .89    11.09     5.82     .030     .030     .030     .000  1270.30  9900.61
  .006685     750.     707.     670.       20       11        0      .00   264.95 10165.55


*SECNO 17.588

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.47

   17.588    12.10  1281.70      .00      .00  1281.89      .20      .66      .16  1278.10
    8900.     1587.    7197.     116.     629.    1915.      70.     439.      49.   1276.40
      .55     2.52     3.76     1.65     .040     .040     .040     .000  1269.60  9787.60
  .000555     440.     496.     560.        2        0        0      .00   392.63 10219.62
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


*SECNO 17.662

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .43

   17.662    10.24  1281.84      .00      .00  1282.43      .59      .42      .12  1276.40
    8900.    2009.    6891.       0.     393.    1067.       0.     457.      52.   1281.60
      .57     5.11     6.46      .50     .040     .040     .040     .000  1271.60  9836.68
  .003043     380.     391.     400.        3        0        0      .00   295.41 10132.08


*SECNO 17.783

3301 HV CHANGED MORE THAN HVINS

   17.783     8.43  1283.83      .00      .00  1285.19     1.36     2.52      .23  1280.50
    8900.      86.    8603.     211.      23.     907.      49.     475.      56.   1281.10
      .59     3.83     9.49     4.35     .040     .040     .040     .000  1275.40  9907.48
  .005603     540.     639.     500.        3        0        0      .00   184.15 10091.63


*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

   17.932    10.59  1288.49      .00      .00  1290.79     2.29     5.32      .28  1289.70
    8900.       0.    8900.       0.       0.     732.       0.     490.      58.   1290.20
      .60      .00    12.15      .00     .000     .040     .000     .000  1277.90  9957.97
  .008306     790.     787.     780.        2        0        0      .00   103.69 10061.66


CCHV=     .300 CEHV=     .500
*SECNO 18.042

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.50

   18.042     9.21  1291.51      .00      .00  1293.95     2.44     3.09      .07  1307.40
    8900.       0.    8900.       0.       0.     710.       0.     500.      60.   1307.40
      .62      .00    12.53      .00     .000     .025     .000     .000  1282.30  9951.74
  .003699     620.     581.     550.        4        0        0      .00    96.50 10048.24
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SECNO	DEPTH	CWSEL	CRIWS	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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	.00	75.00	4.00	1059.00	.81	1280.20	1279.90

*SECNO 18.061
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1291.46 BRIDGE VELOCITY= 9.72 CALCULATED CHANNEL AREA= 902.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1293.22	1294.69	.62	0.	8900.	1059.	1060.	1293.20	1301.60	0.

18.061	9.03	1292.13	.00	.00	1294.69	2.56	.74	.00	1308.20
8900.	0.	8900.	0.	0.	693.	0.	501.	60.	1308.20
.62	.00	12.84	.00	.000	.025	.000	.000	1283.10	9951.74
.004001	101.	101.	101.	0	0	0	.00	96.48	10048.23

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.25

18.081	13.78	1294.88	.00	.00	1295.45	.57	.16	.60	1286.60
8900.	382.	7932.	586.	127.	1258.	173.	504.	60.	1284.90
.62	3.01	6.30	3.39	.035	.035	.035	.000	1281.10	9911.30
.000790	80.	106.	130.	3	0	0	.00	168.31	10079.61

CCHV= .100 CEHV= .300
*SECNO 18.174

3265 DIVIDED FLOW

18.174	13.75	1295.45	.00	.00	1295.82	.37	.35	.02	1288.70
8900.	746.	8000.	154.	223.	1597.	118.	524.	63.	1294.60
.65	3.35	5.01	1.31	.035	.035	.035	.000	1281.70	9875.25
.000631	500.	491.	490.	2	0	0	.00	295.78	10212.56

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 18.269
   18.269    11.87  1295.67      .00      .00  1296.35      .67      .44      .09  1288.40
    8900.     990.    7823.     86.     213.    1146.     36.     543.     65.   1292.40
      .67     4.64     6.83     2.39     .035     .035     .035     .000  1283.80  9899.06
  .001265     500.     502.     500.       2        0        0      .00   182.66 10081.72


*SECNO 18.362
   18.362    10.96  1296.26      .00      .00  1297.13      .87      .72      .06  1290.00
    8900.     313.    8316.    271.     84.    1080.     78.     558.     68.   1290.60
      .69     3.72     7.70     3.49     .035     .035     .035     .000  1285.30  9915.08
  .001737     490.     491.     510.       2        0        0      .00   172.34 10087.42


*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   18.445    15.73  1303.03  1303.03      .00  1305.21     2.18     1.19      .39  1290.00
    8900.    2519.    3004.    3377.    336.     187.     341.     569.     69.   1290.00
      .70     7.50    16.07     9.89     .035     .035     .035     .000  1287.30  9900.44
  .004573     470.     440.     460.      20       14        0      .00   198.19 10098.63


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      2.34      3.00       .00      6.11      1.00     33.20       .00   1287.70   1287.40

*SECNO 18.456

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.86

PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape
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SECNO	DEPTH	CWSEL	CRIWS	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

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3914.19	1306.36	1.16	8610.	329.	33.	33.	1294.20	1299.50	433.

18.456	18.27	1305.97	.00	.00	1306.61	.64	1.40	.00	1290.40
8900.	2995.	2115.	3790.	589.	220.	766.	570.	70.	1290.40
.71	5.08	9.62	4.95	.035	.035	.035	.000	1287.70	9884.06
.001319	60.	60.	60.	3	0	8	.00	420.45	10304.52

*SECNO 18.545

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.35

18.545	17.35	1306.65	.00	.00	1306.87	.22	.22	.04	1294.10
8900.	853.	6904.	1143.	387.	1682.	508.	593.	74.	1293.80
.74	2.20	4.10	2.25	.035	.035	.035	.000	1289.30	9889.26
.000239	440.	466.	480.	2	0	0	.00	269.89	10159.15

*SECNO 18.575

18.575	17.42	1306.72	.00	.00	1306.91	.19	.04	.00	1291.50
8900.	1947.	1944.	5009.	684.	463.	1449.	602.	75.	1289.70
.75	2.85	4.20	3.46	.035	.035	.035	.000	1289.30	9888.92
.000233	160.	160.	160.	2	0	0	.00	270.68	10159.60

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1907.78	1306.94	.04	8605.	327.	57.	56.	1295.40	1299.00	250.

18.583	17.95	1307.35	.00	.00	1307.53	.17	.62	.00	1291.60
8900.	1990.	1903.	5007.	729.	478.	1536.	604.	75.	1289.80
.76	2.73	3.98	3.26	.035	.035	.035	.000	1289.40	9886.31
.000201	40.	40.	40.	2	0	8	.00	276.85	10163.16

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 18.640
   18.640   17.12  1307.32      .00      .00  1307.66      .33      .08      .05  1294.60
    8900.   1169.    6132.    1599.     369.    1187.     525.     621.      77.   1293.40
      .78     3.17     5.17     3.05     .035     .035     .035     .000  1290.20  9893.12
  .000396    300.     301.     310.        2        0        0      .00   215.31 10108.43


*SECNO 18.734
   18.734   15.09  1307.49      .00      .00  1307.93      .44      .24      .03  1298.60
    8900.    955.    8141.     203.     195.    1475.     87.     643.      79.   1300.80
      .80     2.84     5.52     2.33     .035     .035     .035     .000  1292.40  9894.03
  .000631    490.     496.     500.        1        0        0      .00   194.05 10088.08


*SECNO 18.832
   18.832   14.61  1307.81      .00      .00  1308.28      .47      .34      .01  1302.80
    8900.    128.    7877.     894.      64.    1380.     265.     664.      81.   1297.10
      .93     2.02     5.71     3.37     .035     .035     .035     .000  1293.20  9903.67
  .000684    480.     517.     540.        2        0        0      .00   191.92 10095.59


*SECNO 18.925
   18.925   13.53  1308.13      .00      .00  1308.66      .53      .36      .02  1297.60
    8900.    809.    7725.     366.     228.    1256.     123.     682.      83.   1300.00
      .85     3.56     6.15     2.98     .035     .035     .035     .000  1294.60  9897.82
  .000795    480.     491.     500.        0        0        0      .00   180.41 10078.22


*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .57

   19.018   10.77  1308.37      .00      .00  1309.46     1.10      .63      .17  1305.10
    8900.     98.    8802.       0.      34.    1042.       0.     698.      85.   1308.40
      .87     2.89     8.45     .00     .035     .035     .000     .000  1297.60  9882.21
  .002430    460.     491.     520.        2        0        0      .00   147.69 10029.90


*SECNO 19.117
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   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   19.117    10.59  1309.19  1309.19      .00  1312.66     3.46     2.08      .71  1302.90
    8900.     490.    7558.     852.      64.     478.      97.     708.      87.   1301.50
      .68     7.66    15.82     8.77     .035     .035     .035     .000  1298.60  9952.65
  .007504     490.     523.     560.        4        5        0      .00    98.61 10051.27


*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.62

   19.210    13.50  1313.70      .00      .00  1315.02     1.32     2.15      .21  1312.00
    8900.      12.    8876.      12.       6.     963.       6.     717.      88.   1312.00
      .89     2.00     9.22     2.00     .035     .035     .035     .000  1300.20  9937.78
  .002857     500.     491.     490.        2        0        0      .00   129.15 10066.93


CCHV=     .300 CEHV=     .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1324.00 ELREA=      1324.00

   19.283     5.69  1317.39  1317.39      .00  1320.24     2.85     1.84      .77  1311.70
    8400.       0.    8400.       0.       0.     620.       0.     724.      89.   1311.70
      .90      .00    13.55      .00     .000     .035     .000     .000  1311.70  9948.00
  .010023     390.     386.     390.       20       14        0      .00   109.00 10057.00
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SECNO	DEPTH	CWSEL	CRIWS	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

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1316.55 , NOT 1317.39 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1317.55 BRIDGE VELOCITY= 13.73 CALCULATED CHANNEL AREA= 612.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1320.66	.00	0.	8400.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	7.16	1318.86	.00	.00	1320.66	1.80	.42	.00	1311.70
8400.	0.	8400.	0.	0.	781.	0.	725.	89.	1311.70
.90	.00	10.76	.00	.000	.035	.000	.000	1311.70	9948.00
.004649	86.	86.	86.	0	0	0	.00	109.00	10057.00

*SECNO 19.313

19.313	7.46	1319.16	.00	.00	1321.25	2.09	.44	.15	1327.90
8400.	0.	8400.	0.	0.	724.	0.	727.	89.	1325.50
.91	.00	11.61	.00	.000	.035	.000	.000	1311.70	9955.47
.003034	75.	74.	75.	2	0	0	.00	133.43	10088.91

CCHV= .100 CEHV= .300
*SECNO 19.418

3301 HV CHANGED MORE THAN HVINS

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   SECNO    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

   19.418    10.00  1323.00      .00      .00  1324.22     1.23     2.88      .09  1328.00
    8400.       0.    8400.       0.       0.     946.       0.     737.      91.   1326.10
      .92      .00     8.88      .00     .000     .035     .000     .000  1313.00  9962.77
  .003646     570.     554.     530.        2        0        0      .00   143.78 10106.55


*SECNO 19.560
   19.560     9.77  1325.37      .00      .00  1326.58     1.21     2.36      .00  1329.70
    8400.       0.    8400.       0.       0.     953.       0.     753.      93.   1330.60
      .95      .00     8.82      .00     .000     .035     .000     .000  1315.60  9935.89
  .002882     730.     729.     720.        2        0        0      .00   120.32 10056.21


CCHV=     .300 CEHV=     .500
*SECNO 19.625

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.45


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1332.00 ELREA=      1332.00

   19.625     8.91  1326.51      .00      .00  1327.10      .59      .34      .18  1317.60
    3300.       0.    3300.       0.       0.     535.       0.     759.      94.   1317.60
      .92      .00     6.17      .00     .000     .015     .000     .000  1317.60  9965.00
  .000210     580.     364.      70.        2        0        0      .00    60.00 10025.00



SPECIAL BRIDGE

SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
     1.05     1.56     3.00   100.00    60.00     2.00   564.00      .00   1318.60  1317.60

*SECNO 19.691
CLASS A LOW FLOW

3420 BRIDGE W.S.=    1326.96 BRIDGE VELOCITY=      6.42     CALCULATED CHANNEL AREA=      485.
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   SECNO    DEPTH    CWSEL    CRIWS    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


 EGPRS      EGLWC      H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                             AREA
       .00   1327.30      .05        0.     3300.      564.      563.     1328.30   1334.80        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1333.00 ELREA=     1333.00

   19.691     7.96  1326.56      .00      .00  1327.30      .74      .20      .00  1318.60
    3300.       0.    3300.       0.       0.     477.       0.     763.      95.   1318.60
      .98      .00     6.91      .00     .000     .015     .000     .000  1318.60  9965.00
  .000307     330.     350.     430.        0        0        0      .00    60.00 10025.00


*SECNO 19.742
   19.742     7.72  1326.82      .00      .00  1327.43      .60      .09      .04  1331.60
    3300.       0.    3300.       0.       0.     529.       0.     767.      95.   1331.00
      .99      .00     6.24      .00     .000     .015     .000     .000  1319.10  9955.26
  .000351      80.     269.     470.        2        0        0      .00    81.20 10036.46


CCHV=     .100 CEHV=     .300
*SECNO 19.847

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .33

   19.847     8.29  1327.09      .00      .00  1327.95      .85      .44      .07  1336.30
    3300.       0.    3300.       0.       0.     445.       0.     773.      96.   1335.80
     1.01      .00     7.41      .00     .000     .035     .000     .000  1318.80  9954.74
  .003304     570.     554.     520.        2        0        0      .00    81.39 10036.13


*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   19.960     5.76  1330.36  1330.36      .00  1332.38     2.02     3.37      .35  1330.00
    3300.       0.    3299.       0.       0.     290.       0.     778.      97.   1330.00
     1.02     1.43    11.39     1.41     .035     .035     .035     .000  1324.60  9956.84
  .011752     640.     597.     560.        5       19        0      .00    75.12 10031.96
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   SECNO    DEPTH    CWSEL    CRIWS    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


CONV=     .300 CENV=     .500
*SECNO 19.974

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.39


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1336.00 ELREA=      1336.00

   19.974     8.24  1332.04      .00      .00  1333.00      .96      .30      .32  1323.80
    3300.       0.    3300.       0.       0.     420.       0.     778.      97.   1323.80
     1.03      .00     7.85      .00     .000     .035     .000     .000  1323.80  9969.00
  .002054     105.      74.      65.        3        0        0      .00    51.00 10020.00



SPECIAL BRIDGE

SB  XK        XKOR      CDFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00       .00     51.00      3.00    480.00       .00   1324.10   1323.80

*SECNO 19.986
CLASS A LOW FLOW

3420 BRIDGE W.S.=    1332.02 BRIDGE VELOCITY=       8.52     CALCULATED CHANNEL AREA=       380.

 EGPRS      EGLWC       H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                                 AREA
       .00   1333.20      .26        0.     3300.      480.      480.     1334.10   1337.90        0.



3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1337.00 ELREA=      1337.00

   19.986     8.50  1332.30      .00      .00  1333.20      .90      .20      .00  1323.80
    3300.       0.    3300.       0.       0.     433.       0.     779.      97.   1323.80
     1.03      .00     7.61      .00     .000     .035     .000     .000  1323.80  9969.00
  .001855     61.      61.      61.        0        0        0      .00    51.00 10020.00


*SECNO 20.049
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   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1340.00 ELREA=      1339.40

   20.049     8.57  1335.67  1335.67      .00  1338.47     2.80     1.26      .95  1343.40
    3300.       0.    3300.       0.       0.     246.       0.     782.      98.   1339.40
     1.04      .00    13.43      .00     .000     .035     .000     .000  1327.10  9976.33
  .011472     305.     333.     345.       20        5        0      .00    44.22 10020.55


CCHV=     .100 CEHV=     .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.75


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1344.00 ELREA=      1340.80

   20.144     9.56  1340.46      .00      .00  1341.68     1.21     3.05      .16  1344.60
    3300.       0.    3300.       0.       0.     373.       0.     785.      98.   1340.80
     1.05      .00     8.84      .00     .000     .035     .000     .000  1330.90  9970.48
  .003756     490.     502.     500.        2        0        0      .00    54.01 10024.50


*SECNO 20.242

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1348.00 ELREA=      1342.80

   20.242     9.19  1342.49      .00      .00  1343.78     1.29     2.08      .02  1347.20
    3300.       0.    3300.       0.       0.     361.       0.     789.      99.   1342.80
     1.07      .00     9.13      .00     .000     .035     .000     .000  1333.30  9972.10
  .004323     470.     517.     560.        3        0        0      .00    56.33 10028.43
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 20.335
   20.335     7.41  1344.71      .00      .00  1345.56      .86     1.74      .04  1344.00
    3300.       1.    3299.       0.       1.     444.       0.     794.     100.   1344.00
     1.08      .94     7.43      .94     .040     .035     .040     .000  1337.30  9956.47
  .002951     510.     491.     470.        2        0        0      .00    76.94 10033.41


CCHV=     .300 CEHV=     .500
*SECNO 20.347

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1351.50 ELREA=      1351.50

   20.347     7.54  1344.74      .00      .00  1345.89     1.14      .18      .14  1337.20
    3300.       0.    3300.       0.       0.     385.       0.     795.     100.   1337.20
     1.09      .00     8.58      .00     .000     .035     .000     .000  1337.20  9970.00
  .002756       1.      63.     150.        2        0        0      .00    51.00 10021.00



SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00    100.00     51.00      3.00    576.00      .00   1337.70   1337.20

*SECNO 20.366
CLASS A LOW FLOW

3420 BRIDGE W.S.=    1344.76 BRIDGE VELOCITY=       9.41     CALCULATED CHANNEL AREA=       339.

 EGPRS      EGLWC       H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                                 AREA
       .00   1346.15      .36        0.     3300.      576.      576.     1349.70   1354.50        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1352.50 ELREA=      1352.50

   20.366     7.91  1345.11      .00      .00  1346.15     1.04      .26      .00  1337.20
    3300.       0.    3300.       0.       0.     403.       0.     796.     100.   1337.20
     1.09      .00     8.18      .00     .000     .035     .000     .000  1337.20  9970.00
  .002357     100.     100.     100.        0        0        0      .00    51.00 10021.00


*SECNO 20.423
   20.423     8.05  1346.05      .00      .00  1347.02      .97      .85      .02  1345.00
    3300.       3.    3256.      41.       2.     410.      16.     798.     100.   1344.30
     1.10     1.39     7.95     2.57     .040     .035     .040     .000  1338.00  9971.24
  .003463     415.     301.     205.        2        0        0      .00    87.56 10058.80
```

SECNO	DEPTH	CWSEL	CRIWS	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

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	6.64	1345.94	.00	.00	1347.41	1.47	.14	.25	1339.30
3300.	0.	3300.	0.	0.	339.	0.	799.	100.	1339.30
1.10	.00	9.74	.00	.000	.035	.000	.000	1339.30	9985.00
.004220	1.	37.	65.	2	0	0	.00	51.00	10036.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1345.48 BRIDGE VELOCITY= 11.12 CALCULATED CHANNEL AREA= 297.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1347.80	.62	0.	3300.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	7.26	1346.56	.00	.00	1347.80	1.23	.38	.00	1339.30
3300.	0.	3300.	0.	0.	370.	0.	799.	100.	1339.30
1.10	.00	8.91	.00	.000	.035	.000	.000	1339.30	9985.00
.003129	70.	70.	70.	0	0	0	.00	51.00	10036.00

*SECNO 20.529

20.529	5.60	1348.60	.00	.00	1349.62	1.03	1.77	.06	1350.20
3300.	0.	3300.	0.	0.	405.	0.	803.	101.	1350.40
1.12	.00	8.14	.00	.000	.035	.000	.000	1343.00	9950.77
.005105	545.	449.	375.	3	0	0	.00	90.21	10040.99

```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


CCHV=     .100 CEHV=     .300
*SECNO 20.628

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.02

   20.628     7.21  1350.51      .00      .00  1350.86      .35     1.17      .07  1357.10
    3300.       0.    3300.       0.       0.     695.       0.     810.     102.   1356.30
     1.15      .00     4.75      .00     .000     .035     .000     .000  1343.30  9941.00
  .001248     530.     523.     520.        2        0        0      .00   120.30 10061.30


*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   20.725     6.67  1353.87  1353.87      .00  1356.20     2.33     1.45      .59  1360.40
    3300.       0.    3300.       0.       0.     269.       0.     816.     103.   1361.00
     1.16      .00    12.25      .00     .000     .035     .000     .000  1347.20  9963.41
  .011755     510.     512.     520.       20       11        0      .00    58.96 10022.37


CCHV=     .300 CEHV=     .500
*SECNO 20.737
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1363.00 ELREA=     1363.00

   20.737     5.05  1355.95  1355.95      .00  1358.50     2.55      .89      .11  1350.90
    3300.       0.    3300.       0.       0.     258.       0.     816.     104.   1350.90
     1.16      .00    12.61      .00     .000     .035     .000     .000  1350.90  9968.00
  .010512      80.      80.      80.       20       15        0      .00    51.00 10019.00
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SECND	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	FL	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

SPECIAL BRIDGE

3227 DOWNSTREAM ELEV IS 1355.09 , NOT 1355.95 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SE	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCRU	ELCHD
	1.25	1.36	3.00	100.00	51.00	3.00	576.00	.00	1351.00	1350.90

*SECND 20.750

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.59

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1356.23 BRIDGE VELOCITY= 13.03 CALCULATED CHANNEL AREA= 251.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1359.13	.00	0.	3300.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	6.67	1357.67	.00	.00	1359.13	1.46	.63	.00	1351.00
3300.	0.	3300.	0.	0.	340.	0.	817.	104.	1351.00
1.17	.00	9.70	.00	.000	.035	.000	.000	1351.00	9968.00
.004162	71.	71.	71.	0	0	0	.00	51.00	10019.00

*SECND 20.819
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	3.81	1360.31	1360.31	.00	1362.22	1.91	2.37	.23	1356.50
3300.	0.	3300.	0.	0.	297.	0.	819.	104.	1356.50
1.17	.00	11.10	.00	.000	.035	.000	.000	1356.50	9965.00
.011473	375.	365.	345.	2	11	0	.00	78.00	10043.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	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

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1359.76 , NOT 1360.31 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1360.90 BRIDGE VELOCITY= 11.28 CALCULATED CHANNEL AREA= 259.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1363.43	.00	0.	3300.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

20.841	4.85	1362.25	.00	.00	1363.43	1.18	1.21	.00	1357.40
3300.	0.	3300.	0.	0.	378.	0.	820.	104.	1357.40
1.18	.00	8.72	.00	.000	.035	.000	.000	1357.40	9965.00
.005139	115.	115.	115.	0	0	0	.00	78.00	10043.00

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.45

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	7.07	1363.37	.00	.00	1363.95	.58	.34	.18	1365.30
3300.	0.	3300.	0.	0.	538.	0.	821.	105.	1367.60
1.18	.00	6.14	.00	.000	.035	.000	.000	1356.30	9950.49
.002431	90.	100.	110.	2	0	0	.00	105.14	10055.63

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   SECNO    DEPTH    CWSEL    CRIWS    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


CCHV=     .100 CEHV=     .300
*SECNO 20.942

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .46

   20.942     5.62  1365.22      .00      .00  1366.02      .80     2.00      .06  1368.60
    3300.       0.    2466.     834.       0.     333.     131.     826.     107.   1366.50
     1.20      .00     7.41     6.36     .000     .035     .035     .000  1359.60  9859.24
  .011397     530.     433.     490.        1        0        0      .00   266.85 10162.71


*SECNO 21.036
   21.036     6.39  1369.89      .00      .00  1371.15     1.27     4.99      .14  1370.70
    3300.       0.    3300.       0.       0.     365.       0.     831.     109.   1370.40
     1.22      .00     9.04      .00     .000     .035     .000     .000  1363.50  9913.20
  .008987     490.     496.     490.        4        0        0      .00   105.88 10019.08


*SECNO 21.127

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1374.00 ELREA=      1375.00

   21.127     6.57  1373.27      .00      .00  1374.36     1.08     3.18      .02  1374.20
    3300.       0.    3300.       0.       0.     395.       0.     835.     110.   1375.00
     1.23      .00     8.35      .00     .000     .035     .000     .000  1366.70  9976.03
  .005095     400.     480.     500.        3        0        0      .00    84.26 10060.29


*SECNO 21.230

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.230     7.04  1379.04  1379.04      .00  1380.40     1.36     3.40      .08  1379.30
    3300.       7.    2903.     389.       5.     294.      94.     840.     111.   1380.60
     1.25     1.54     9.86     4.14     .040     .035     .040     .000  1372.00  9866.06
  .007923     560.     544.     500.       20        8        0      .00   161.94 10126.17
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      ARGB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 21.363

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.53

   21.363     7.88  1381.98      .00      .00  1382.29      .31     1.79      .11  1384.40
    3300.       8.    3292.       0.      10.     740.       0.     849.     114.   1382.10
     1.29      .82     4.45      .00     .040     .035     .000     .000  1374.10  9562.54
  .001241     740.     702.     700.        3        0        0      .00   162.23 10087.49


*SECNO 21.484

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.484     7.09  1385.59  1385.59      .00  1386.53      .94     1.50      .19  1386.90
    3300.     572.    2728.       0.     191.     324.       0.     859.     117.   1386.50
     1.32     2.99     8.42      .03     .040     .035     .040     .000  1378.50  9593.80
  .005951     650.     639.     520.       20       11        0      .00   318.09 10060.27


*SECNO 21.576

3265 DIVIDED FLOW

   21.576     6.30  1388.40  1387.95      .00  1389.20      .81     2.66      .01  1390.00
    3300.      23.    3002.     275.      25.     399.     114.     864.     121.   1388.30
     1.33      .92     7.52     2.41     .040     .035     .040     .000  1382.10  9438.25
  .005379     320.     486.     480.        4       11        0      .00   406.32 10332.66
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 21.669

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.669     8.89  1392.89  1392.89      .00  1393.43      .54     2.03      .03  1393.80
    3200.     240.    2162.     798.     164.     308.     373.     872.     127.   1392.00
     1.36     1.46     7.02     2.14     .040     .035     .040     .000  1384.00  9433.35
  .003326     440.     491.     470.        2       16        0      .00   839.81 10411.59


*SECNO 21.742
   21.742     7.79  1394.19      .00      .00  1394.91      .72     1.43      .06  1394.70
    3200.       0.    3200.       0.       0.     468.       0.     877.     132.   1394.20
     1.37      .00     6.83      .00     .000     .035     .000     .000  1386.40  9976.13
  .004103     430.     385.     390.        2        0        0      .00   114.82 10090.94


*SECNO 21.840

3265 DIVIDED FLOW

   21.840     5.57  1396.67      .00      .00  1397.50      .84     2.56      .03  1396.20
    3200.     322.    2877.       1.      93.     376.       2.     883.     134.   1397.00
     1.39     3.45     7.65      .55     .040     .035     .040     .000  1391.10  9867.76
  .006197     430.     517.     430.        3        0        0      .00   209.51 10106.92


*SECNO 21.895

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.895     7.02  1398.92  1398.92      .00  1399.68      .76     1.58      .01  1398.00
    3200.     831.    2196.     173.     224.     270.     118.     887.     136.   1397.70
     1.41     3.71     8.13     1.47     .040     .035     .040     .000  1391.90  9837.26
  .004685     330.     290.     220.        3       11        0      .00   513.02 10404.08


*SECNO 21.933
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   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.98

   21.933     3.29  1400.09      .00      .00  1400.19      .10      .44      .07  1398.00
    3200.     875.    2108.     216.     458.     740.     158.     891.     139.   1398.00
     1.43     1.91     2.85     1.37     .040     .035     .040     .000  1396.80  9543.87
  .001201     210.     210.     210.        2        0        0      .00   741.15 10285.02


*SECNO 21.953

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.953     6.04  1400.04  1400.04      .00  1400.97      .94      .20      .25  1400.20
    3200.     936.    2225.      39.     208.     251.      13.     893.     140.   1398.30
     1.43     4.49     8.85     3.10     .045     .045     .045     .000  1394.00  9655.48
  .010772      75.      74.      75.       20       14        0      .00   254.22 10043.47


*SECNO 22.065

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.06

   22.065     7.47  1403.27      .00      .00  1403.41      .14     2.36      .08  1404.10
    3200.    2203.     973.      25.     883.     242.      16.     902.     144.   1402.00
     1.48     2.49     4.01     1.58     .045     .045     .045     .000  1395.80  9257.24
  .002534     430.     591.     630.        4        0        0      .00   659.32 10046.04
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   SECNO    DEPTH    CWSEL    CRIWS    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      WTH      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 22.165

3265 DIVIDED FLOW

   22.165     9.37  1404.37      .00      .00  1404.56      .18     1.14      .01  1400.90
    3200.    2087.    1110.       3.     824.     235.       4.     915.     152.   1403.70
     1.53     2.53     4.72      .69     .045     .045     .045     .000  1395.00  9164.20
  .001844     530.     528.     530.        4        0        0      .00   609.27 10030.25


*SECNO 22.273

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .55

   22.273     6.34  1405.74      .00      .00  1406.27      .53     1.61      .10  1404.10
    3200.     838.    2362.       0.     229.     368.       0.     925.     157.   1406.90
     1.55     3.67     6.42      .00     .045     .045     .000     .000  1399.40  9326.99
  .006064     470.     570.     580.        2        0        0      .00   259.54 10025.21


*SECNO 22.410

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   22.410     7.82  1411.82  1411.82      .00  1413.91     2.09     6.64      .47  1410.70
    3200.      39.    3159.       2.      13.     271.       1.     932.     160.   1411.30
     1.57     2.97    11.67     1.66     .045     .045     .045     .000  1404.00  9948.53
  .015329     750.     723.     630.        6       11        0      .00    82.02 10030.55


*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  6.32

   22.483     8.97  1414.47      .00      .00  1414.55      .09      .44      .20  1411.10
    3200.      80.    2912.     208.      79.    1198.     192.     940.     162.   1411.20
     1.62     1.01     2.43     1.09     .045     .045     .045     .000  1405.50  9890.43
  .000384     380.     385.     390.        3        0        0      .00   304.81 10195.24
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SECNO	DEPTH	CWSEL	CRIWS	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

*SECNO 22.578

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .33

22.578	7.85	1414.55	.00	.00	1415.14	.58	.43	.15	1416.60
3200.	0.	3200.	0.	0.	522.	0.	952.	164.	1421.20
1.64	.00	6.12	.00	.000	.045	.000	.000	1406.70	9971.10
.003481	540.	502.	490.	3	0	0	.00	89.91	10061.00

*SECNO 22.675

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.05

22.675	6.15	1415.85	.00	.00	1415.95	.10	.77	.05	1419.80
3200.	0.	3200.	0.	0.	1247.	0.	962.	166.	1420.00
1.69	.00	2.57	.00	.000	.045	.000	.000	1409.70	9745.89
.000829	570.	512.	480.	2	0	0	.00	278.60	10024.49

*SECNO 22.794

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .48

22.794	5.93	1416.63	.00	.00	1416.98	.35	.95	.07	1417.80
3200.	0.	3198.	2.	0.	673.	3.	976.	169.	1416.10
1.73	.00	4.75	.82	.000	.045	.045	.000	1410.70	9987.18
.003646	460.	628.	500.	2	0	0	.00	191.46	10178.63

*SECNO 22.880

22.880	5.66	1418.66	.00	.00	1419.09	.42	2.09	.02	1426.40
3200.	0.	3200.	0.	0.	612.	0.	982.	171.	1424.20
1.75	.00	5.23	.00	.000	.045	.000	.000	1413.00	9957.40
.005971	440.	454.	480.	2	0	0	.00	205.47	10162.87

*SECNO 22.990

22.990	4.76	1422.66	.00	.00	1423.09	.42	4.00	.00	1425.40
3200.	0.	3200.	0.	0.	612.	0.	991.	175.	1427.90
1.79	.00	5.23	.00	.000	.045	.000	.000	1417.90	9765.15
.008025	480.	581.	530.	3	0	0	.00	259.20	10024.35

```
   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


*SECNO 23.097

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .65

   23.097     3.76  1428.86  1428.72      .00  1429.95     1.09     6.66      .20  1432.30
    3200.       0.    3200.       0.       0.     382.       0.     997.     177.   1430.80
     1.80      .00     8.37      .00     .000     .045     .000     .000  1425.10  9961.15
  .018970     640.     565.     490.       13       19        0      .00   152.27 10113.42


*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.73

   23.168     3.03  1431.93      .00      .00  1432.07      .14     2.03      .09  1429.50
    3200.     303.    2816.      80.     143.     889.      53.    1003.     180.   1430.30
     1.84     2.11     3.17     1.52     .045     .045     .045     .000  1428.90  9651.66
  .002550     330.     375.     300.        3        0        0      .00   528.14 10179.80


*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   23.253     9.04  1434.24  1434.24      .00  1437.02     2.79     2.36      .79  1437.50
    3200.       0.    3200.       0.       0.     239.       0.    1010.     183.   1444.20
     1.85      .00    13.40      .00     .000     .040     .000     .000  1425.20  9978.98
  .015299     470.     459.     450.       20       23        0      .00    43.74 10022.72


*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS
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SECNO	DEPTH	CWSEL	CRIWS	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

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

23.334	7.56	1440.16	.00	.00	1441.55	1.39	4.39	.14	1443.80
3200.	0.	3200.	0.	0.	338.	0.	1013.	184.	1449.80
1.86	.00	9.46	.00	.000	.040	.000	.000	1432.60	9969.54
.007684	400.	417.	420.	2	0	0	.00	65.96	10035.50

*SECNO 23.416

23.416	7.11	1443.61	.00	.00	1445.31	1.70	3.67	.09	1447.80
3200.	0.	3200.	0.	0.	306.	0.	1016.	184.	1450.20
1.87	.00	10.46	.00	.000	.040	.000	.000	1436.50	9981.30
.009382	400.	433.	430.	3	0	0	.00	58.43	10039.73

*SECNO 23.514

23.514	8.26	1447.86	.00	.00	1449.15	1.30	3.80	.04	1451.40
3200.	0.	3200.	0.	0.	350.	0.	1020.	185.	1451.10
1.89	.00	9.14	.00	.000	.040	.000	.000	1439.60	9977.89
.005909	560.	517.	470.	2	0	0	.00	56.79	10034.67

*SECNO 23.544

3301 HV CHANGED MORE THAN HVINS

23.544	7.27	1448.67	.00	.00	1450.48	1.82	1.17	.16	1453.20
3200.	0.	3200.	0.	0.	296.	0.	1021.	185.	1452.90
1.89	.00	10.82	.00	.000	.040	.000	.000	1441.40	9979.24
.009635	190.	158.	150.	2	0	0	.00	54.12	10033.37

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	2.48	3.20	.00	5.70	1.00	14.10	.00	1442.00	1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	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

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.05

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3432.14	1453.20	2.71	3048.	153.	14.	14.	1445.00	1449.00	140.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.555	10.55	1452.55	.00	.00	1453.21	.67	2.73	.00	1453.80
3200.	0.	3200.	0.	0.	488.	0.	1022.	185.	1453.50
1.89	.00	6.56	.00	.000	.040	.000	.000	1442.00	9974.72
.002296	60.	60.	60.	2	0	8	.00	63.01	10037.74

*SECNO 23.591
3280 CROSS SECTION 23.59 EXTENDED 1.01 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.591	8.81	1453.01	.00	.00	1453.74	.73	.51	.02	1452.90
3200.	0.	3200.	0.	0.	468.	0.	1024.	186.	1453.80
1.90	.00	6.84	.00	.000	.040	.000	.000	1444.20	9968.00
.003117	100.	190.	210.	3	0	0	.00	75.18	10043.18

*SECNO 23.691

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.691	8.53	1454.93	.00	.00	1456.20	1.27	2.30	.16	1457.60
3200.	0.	3200.	0.	0.	353.	0.	1029.	186.	1455.30
1.92	.00	9.05	.00	.000	.040	.000	.000	1446.40	9970.88
.006531	510.	528.	540.	2	0	0	.00	64.39	10035.27

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 23.815

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.42


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1480.00 ELREA=     1480.00

   23.815     8.75  1458.45      .00      .00  1459.13      .68     2.87      .06  1458.90
    3150.       0.    3150.       0.       0.     474.       0.    1035.     187.   1457.80
     1.94      .00     6.64      .00     .000     .040     .000     .000  1449.70  9957.01
  .003127     650.     655.     680.        2        0        0      .00    79.99 10037.00


*SECNO 23.912

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1480.00 ELREA=     1480.00

   23.912    11.93  1459.83      .00      .00  1460.36      .53     1.21      .02  1461.30
    3100.       0.    3100.       0.       0.     530.       0.    1041.     188.   1460.90
     1.97      .00     5.85      .00     .000     .040     .000     .000  1447.90  9969.35
  .001854     480.     512.     510.        2        0        0      .00    70.62 10039.97


*SECNO 23.989
   23.989    10.94  1460.64      .00      .00  1461.00      .35      .62      .02  1465.60
    3100.       0.    3100.       0.       0.     649.       0.    1047.     189.   1465.80
     1.99      .00     4.78      .00     .000     .040     .000     .000  1449.70  9949.88
  .001260     400.     407.     410.        2        0        0      .00    90.53 10040.40


CCHV=     .300 CEHV=     .500
*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1463.70 ELREA=     1463.70

   24.086     7.68  1461.28      .00      .00  1461.77      .49      .70      .07  1453.60
    3100.       0.    3100.       0.       0.     553.       0.    1054.     190.   1453.60
     2.02      .00     5.61      .00     .000     .040     .000     .000  1453.60  9972.00
  .001504     450.     512.     560.        2        0        0      .00    72.00 10044.00
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWR	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IOC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	CDFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	71.60	3.00	590.00	.00	1453.60	1453.60

*SECNO 24.096
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1461.23 BRIDGE VELOCITY= 5.92 CALCULATED CHANNEL AREA= 523.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1461.80	.03	0.	3100.	590.	590.	1462.20	1466.70	0.

5495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1466.00 ELREA= 1466.00

24.096	7.71	1461.31	.00	.00	1461.80	.48	.03	.00	1453.60
3100.	0.	3100.	0.	0.	555.	0.	1054.	190.	1453.60
2.02	.00	5.58	.00	.000	.040	.000	.000	1453.60	9972.00
.001482	56.	56.	56.	0	0	0	.00	72.00	10044.00

*SECNO 24.106

24.106	7.34	1461.54	.00	.00	1461.91	.37	.08	.03	1464.10
3100.	0.	3041.	59.	0.	618.	37.	1055.	190.	1458.50
2.02	.00	4.92	1.60	.000	.040	.050	.000	1454.20	9959.88
.001669	80.	53.	20.	2	0	0	.00	128.30	10088.18

CCHV= .100 CEHV= .300
*SECNO 24.195

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.77

24.195	8.62	1462.22	.00	.00	1462.35	.13	.41	.02	1470.40
3100.	0.	3100.	0.	0.	1071.	0.	1064.	192.	1466.40
2.07	.00	2.89	.00	.000	.040	.000	.000	1453.60	9947.06
.000530	470.	470.	460.	2	0	0	.00	169.36	10116.42

*SECNO 24.322

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SECNO    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.35

  24.322    10.85  1462.45      .00      .00  1462.48      .03      .13      .01  1463.50
   3100.       0.    2655.     445.       0.    1704.     558.    1090.     196.   1456.80
    2.20      .00     1.56      .80     .000     .040     .050     .000  1451.60  9873.45
 .000096     640.     671.     630.        2        0        0      .00   325.41 10198.86


*SECNO 24.444

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .18

  24.444     5.18  1462.48      .00      .00  1462.72      .24      .18      .06  1465.00
   3100.       0.    2652.     448.       0.     656.     146.    1112.     200.   1461.70
    2.24      .00     4.04     3.07     .000     .045     .045     .000  1457.30  9931.75
 .002916     640.     644.     600.        2        0        0      .00   257.56 10189.31


*SECNO 24.542

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .48

  24.542     5.04  1464.84  1464.35      .00  1465.63      .78     2.75      .16  1464.00
   3100.       2.    3098.       0.       1.     436.       0.    1119.     202.   1467.80
    2.26     2.01     7.11      .00     .045     .045     .000     .000  1459.80  9911.54
 .012483     470.     517.     530.        9       15        0      .00   164.00 10175.58


*SECNO 24.635
  24.635     4.40  1471.20  1470.73      .00  1472.00      .80     6.37      .00  1474.50
   3100.       0.    3100.       0.       0.     432.       0.    1124.     204.   1472.40
    2.28      .00     7.18      .00     .000     .045     .000     .000  1466.80  9923.01
 .013499     650.     491.     220.        8       15        0      .00   168.33 10091.34
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   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


*SECNO 24.738

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.78

   24.738     3.73  1475.73      .00      .00  1475.95      .22     3.89      .06  1481.20
    3000.       0.     880.    2120.       0.     221.     576.    1133.     208.   1480.90
     2.32      .00     3.98     3.68     .000     .045     .045     .000  1472.00  9944.23
  .003999     350.     544.     630.        5        0        0      .00   337.03 10336.93


*SECNO 24.838

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   24.838     5.26  1479.96  1479.96      .00  1480.39      .43     3.18      .06  1483.80
    3000.       0.     958.    2042.       0.     125.     557.    1141.     213.   1483.50
     2.35      .00     7.68     3.67     .000     .045     .045     .000  1474.70  9970.81
  .013566     470.     528.     450.       20       12        0      .00   645.33 10632.62


*SECNO 24.943

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.56

   24.943     5.05  1482.75      .00      .00  1482.84      .08     2.41      .04  1481.80
    3000.     426.     380.    2194.     228.     111.    1008.    1154.     222.   1484.80
     2.42     1.87     3.41     2.18     .045     .045     .045     .000  1477.70  9805.85
  .002066     530.     554.     570.        7        0        0      .00   787.84 10616.31
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 25.048

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   25.048     3.13  1486.83  1486.83      .00  1487.35      .51     2.50      .13  1486.60
    3000.     607.     431.    1962.     170.     67.     320.    1165.     230.   1493.60
     2.45     3.58     6.43     6.13     .045     .045     .045     .000  1483.70  9706.71
  .019152     580.     554.     520.       20       14        0      .00   544.07 10479.74


*SECNO 25.163

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.24

   25.163     5.33  1491.33      .00      .00  1491.55      .22     4.17      .03  1491.60
    2900.      70.     809.    2021.      35.     176.     592.    1175.     236.   1493.10
     2.49     2.00     4.60     3.41     .045     .045     .045     .000  1486.00  9932.96
  .003557     640.     607.     580.        5        0        0      .00   348.02 10295.98


*SECNO 25.262

3265 DIVIDED FLOW


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1491.60 ELREA=      1510.00

   25.262     9.17  1493.17      .00      .00  1493.31      .14     1.75      .01  1491.60
    2900.    2397.     503.       0.     811.     158.       0.    1185.     242.   1496.80
     2.54     2.96     3.18      .00     .045     .045     .000     .000  1484.00  9503.87
  .003227     470.     523.     570.        5        0        0      .00   514.25 10021.52


*SECNO 25.374
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO     DEPTH    CWSEL    CRIWS    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


 25.374     6.02  1499.32  1499.32      .00  1499.41      .09     1.13      .00  1499.30
  2900.    2243.     657.       0.     966.     236.       0.    1202.     248.   1498.80
   2.61     2.32     2.79     1.22     .045     .045     .045     .000  1493.30  9656.07
 .001054    680.     591.     300.       20       27        0      .00   366.94 10023.00


*SECNO 25.434

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1504.90 ELREA=      1504.00

 25.434     6.33  1502.13  1502.13      .00  1504.33     2.20      .87      .63  1504.90
  2900.       0.    2900.       0.       0.     244.       0.    1208.     250.   1504.00
   2.62      .00    11.90      .00     .000     .035     .000     .000  1495.80  9975.52
 .011784    400.     317.     190.       20        8        0      .00    56.38 10031.90


*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.99

 25.500     7.55  1505.25      .00      .00  1505.55      .30     1.03      .19  1511.50
  2900.       0.    2900.       0.       0.     660.       0.    1211.     251.   1509.00
   2.64      .00     4.39      .00     .000     .035     .000     .000  1497.70  9937.98
 .001315    250.     349.     420.        3        0        0      .00   135.84 10073.82


CCHV=     .300 CEHV=     .500
*SECNO 25.523

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.18

 25.523     9.54  1505.54      .00      .00  1505.67      .13      .06      .05  1498.00
  2900.     250.    2185.     465.     155.     704.     216.    1214.     251.   1498.00
   2.66     1.61     3.10     2.15     .050     .035     .035     .000  1496.00  9934.92
 .000277    120.     121.     120.        2        0        0      .00   146.50 10081.42
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  25.534     3.67  1509.21  1509.21      .00  1511.06     1.85      .04      .86  1515.00
   2900.       0.    2900.       0.       0.     266.       0.    1215.     251.   1515.00
    2.66      .00    10.91      .00     .000     .015     .000     .000  1505.54  9963.61
 .002418      58.      58.      58.       20       18        0      .00    72.78 10036.39


*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.55

  25.551     4.82  1510.36      .00      .00  1511.43     1.06      .13      .23  1515.00
   2900.       0.    2900.       0.       0.     350.       0.    1215.     252.   1515.00
    2.66      .00     8.28      .00     .000     .015     .000     .000  1505.54  9963.49
 .001003      90.      90.      90.        5        0        0      .00    73.02 10036.51


*SECNO 25.557
  25.557     4.64  1510.18      .00      .00  1511.69     1.51      .04      .22  1515.00
   2900.       0.    2900.       0.       0.     294.       0.    1216.     252.   1515.00
    2.66      .00     9.85      .00     .000     .015     .000     .000  1505.54  9963.67
 .001594      32.      32.      32.        2        0        0      .00    72.67 10036.33


*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS

  25.561     6.38  1511.98      .00      .00  1512.12      .14      .02      .41  1514.90
   1700.       0.    1700.       0.       0.     559.       0.    1216.     252.   1515.20
    2.66      .00     3.04      .00     .000     .035     .000     .000  1505.60  9955.23
 .000578      20.      21.      20.        3        0        0      .00   106.16 10061.39
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   SECNO    DEPTH    CWSEL    CRIWS    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


CCHV=     .100 CEHV=     .300
*SECNO 25.680

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .67

   25.680     6.03  1512.53      .00      .00  1512.62      .09      .49      .01  1514.40
    1600.      48.    1040.     512.      38.     399.     269.    1225.     256.   1511.20
     2.74     1.24     2.61     1.91     .035     .035     .035     .000  1506.50  9662.51
  .001139     580.     628.     660.        2        0        0      .00   427.49 10301.49


*SECNO 25.786

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1518.90 ELREA=     1515.80

   25.786     5.12  1515.82  1515.82      .00  1516.31      .50     1.09      .12  1518.90
    1500.       0.    1319.     181.       0.     221.      86.    1231.     260.   1515.80
     2.77      .00     5.97     2.11     .000     .035     .035     .000  1510.70  9982.80
  .004761     600.     560.     470.       20       12        0      .00   294.04 10442.17


*SECNO 25.947

3265 DIVIDED FLOW

   25.947     5.77  1520.17      .00      .00  1520.67      .50     4.35      .00  1522.70
    1400.       0.    1296.     104.       0.     223.      32.    1237.     264.   1520.60
     2.81      .00     5.82     3.23     .000     .035     .035     .000  1514.40  9963.61
  .005587     870.     850.     830.        2        0        0      .00   130.64 10121.56


*SECNO 26.058
   26.058     6.43  1522.63      .00      .00  1523.01      .38     2.33      .01  1522.00
    1300.     223.    1077.       0.      85.     203.       0.    1240.     266.   1524.00
     2.84     2.61     5.29      .00     .035     .035     .000     .000  1516.20  9877.95
  .002945     540.     586.     570.        2        0        0      .00   144.14 10022.10
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 26.152
   26.152     4.06  1524.06      .00      .00  1524.36      .30     1.35      .01  1525.40
    1200.       0.    1200.       0.       0.     272.       0.    1243.     267.   1526.00
     2.87      .00     4.41      .00     .000     .035     .000     .000  1520.00  9962.94
  .002735     240.     496.     550.        2        0        0      .00    96.34 10059.28


*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   26.265     4.91  1526.91  1526.91      .00  1528.10     1.19     2.97      .27  1531.70
    1100.       0.    1096.       4.       0.     125.       2.    1246.     268.   1526.50
     2.89      .00     8.77     1.67     .000     .035     .035     .000  1522.00  9979.26
  .012888     580.     597.     610.        5       11        0      .00    61.47 10040.73


*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.47

   26.372     6.38  1530.18      .00      .00  1530.40      .22     2.20      .10  1531.60
    1000.       0.    1000.       0.       0.     265.       0.    1248.     269.   1533.80
     2.95      .00     3.77      .00     .000     .035     .000     .000  1523.80  9972.67
  .001744     600.     565.     510.        5        0        0      .00    84.09 10056.77


*SECNO 26.492

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.77

   26.492     5.18  1530.88      .00      .00  1530.93      .05      .52      .02  1537.50
     900.       0.     900.       0.       0.     494.       0.    1254.     271.   1536.00
     3.03      .00     1.82      .00     .000     .035     .000     .000  1525.70  9891.72
  .000451     640.     634.     610.        4        0        0      .00   172.04 10063.75
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 26.582

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  7.41

   26.582     6.85  1530.95      .00      .00  1530.95      .00      .01      .00  1528.20
     900.     397.     354.     148.    1474.     830.     569.    1272.     275.   1527.20
     3.43      .27      .43      .26     .040     .030     .040     .000  1524.10  9485.48
  .000008     460.     475.     480.        2        0        0      .00   698.68 10184.17


*SECNO 26.673

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1535.00 ELREA=      1533.20

   26.673     1.76  1533.56  1533.56      .00  1533.96      .40      .01      .12  1534.30
     700.       0.     654.      46.       0.     125.      28.    1289.     280.   1533.20
     3.45      .00     5.24     1.68     .000     .030     .040     .000  1531.80  9961.56
  .010087     510.     480.     460.       20       14        0      .00   213.92 10272.13


*SECNO 26.784
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   26.784     2.92  1545.62  1545.62      .00  1546.40      .78     6.41      .12  1551.20
     700.       0.     700.       0.       0.      99.       0.    1291.     282.   1551.50
     3.47      .00     7.11      .00     .000     .030     .000     .000  1542.70  9981.56
  .011988     590.     586.     530.       12       14        0      .00    64.54 10046.10


*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 56.14

   26.883     6.39  1546.49      .00      .00  1546.49      .00      .01      .08  1544.70
     600.       0.     567.      33.       5.    2083.     230.    1305.     285.   1542.80
     4.02      .06      .27      .14     .040     .030     .040     .000  1540.10  9767.79
  .000003     530.     523.     500.        2        0        0      .00   427.23 10195.03
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 26.984

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .49

   26.984     5.99  1546.49      .00      .00  1546.49      .00      .00      .00  1545.50
     400.       0.     347.      53.       3.    1096.     297.    1328.     290.   1546.50
     4.51      .05      .32      .18     .040     .030     .040     .000  1540.50  9937.16
  .000005     480.     533.     460.        2        0        0      .00   336.17 10335.01


*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1565.00 ELREA=     1562.60

   27.060     3.71  1557.81  1557.81      .00  1558.92     1.11      .01      .33  1560.80
     400.       0.     400.       0.       0.      47.       0.    1334.     291.   1562.60
     4.53      .00     8.44      .00     .000     .030     .000     .000  1554.10  9988.20
  .011244     270.     401.     470.       20       14        0      .00    21.85 10010.05


*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.06


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1565.00 ELREA=     1565.00

   27.166     4.86  1560.06      .00      .00  1560.18      .12     1.17      .10  1564.20
     300.       0.     300.       0.       0.     107.       0.    1335.     292.   1563.90
     4.58      .00     2.79      .00     .000     .030     .000     .000  1555.20  9985.26
  .000675     560.     560.     560.        4        0        0      .00    31.13 10016.39
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VCL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 27.294
   27.294     4.41  1560.41      .00      .00  1560.44      .03      .25      .01  1565.20
     200.       0.     200.       0.       0.     135.       0.    1337.     292.   1564.60
     4.71      .00     1.48      .00     .000     .030     .000     .000  1556.00  9976.02
  .000192     710.     676.     630.        3        0        0      .00    41.23 10017.26


CCHV=     .100 CEHV=     .300
*SECNO -19.560
START TRIB COMP
   -19.560    19.560  1325.372
  -19.560     9.77  1325.37      .00      .00  1326.58     1.21      .00      .00  1329.70
    8400.       0.    8400.       0.       0.     953.       0.    1346.     294.   1330.60
     4.73      .00     8.82      .00     .000     .035     .000     .000  1315.60  9935.89
  .002879     730.     729.     720.        0        0        0      .00   120.33 10056.22


*SECNO  .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .029     7.43  1327.03  1327.03      .00  1329.53     2.49     1.07      .39  1329.50
    5500.       0.    5500.       0.       0.     434.       0.    1353.     295.   1328.20
     4.74      .00    12.67      .00     .000     .015     .000     .000  1319.60  9951.25
  .002034     380.     430.     450.       20       15        0      .00    88.50 10039.75


*SECNO  .112

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.46

     .112     8.48  1329.98      .00      .00  1330.39      .40      .65      .21  1332.10
    5500.       0.    5500.       0.       0.    1082.       0.    1362.     296.   1334.80
     4.77      .00     5.09      .00     .000     .030     .000     .000  1321.50  9901.90
  .000957     430.     433.     450.        3        0        0      .00   177.21 10079.11
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO  .198
     .198     6.66  1330.46      .00      .00  1331.02      .56      .59      .05  1332.40
    5500.       0.    5500.       0.       0.     912.       0.    1372.     298.   1337.80
     4.79      .00     6.03      .00     .000     .030     .000     .000  1323.80  9909.30
  .001844     460.     454.     420.        2        0        0      .00   190.10 10099.41


*SECNO  .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .288     5.77  1331.47  1331.47      .00  1333.43     1.95     1.64      .42  1336.00
    5500.       0.    5500.       0.       0.     490.       0.    1380.     300.   1335.90
     4.80      .00    11.22      .00     .000     .030     .000     .000  1325.70  9915.59
  .008595     470.     475.     460.        3       15        0      .00   127.69 10043.28


*SECNO  .398

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.87

     .398     6.41  1335.21      .00      .00  1335.97      .76     2.42      .12  1338.90
    5500.       0.    5500.       0.       0.     786.       0.    1388.     302.   1340.60
     4.82      .00     7.00      .00     .000     .030     .000     .000  1328.80  9923.08
  .002454     600.     581.     540.        3        0        0      .00   162.20 10085.28


*SECNO  .482

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .482     7.62  1338.82  1338.82      .00  1341.39     2.57     1.75      .54  1341.10
    5500.       0.    5483.      17.       0.     425.       8.    1394.     303.   1338.00
     4.83      .00    12.89     2.01     .000     .030     .035     .000  1331.20  9946.11
  .007324     440.     444.     270.       20       11        0      .00    98.15 10044.26
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   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


*SECNO  .575

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96

     .575    11.19  1342.69      .00      .00  1343.23      .54     1.64      .20  1340.20
    5500.     232.    5179.      90.     108.     854.      76.    1403.     306.   1343.10
     4.86     2.14     6.06     1.18     .035     .030     .035     .000  1331.50  9781.88
  .001898     460.     491.     500.        2        0        0      .00   440.28 10352.69


*SECNO  .697
     .697     9.81  1343.81      .00      .00  1344.39      .58     1.15      .01  1346.40
    5500.       0.    5408.      92.       0.     878.      46.    1417.     311.   1341.40
     4.89      .00     6.16     1.98     .000     .030     .035     .000  1334.00  9861.17
  .001686     640.     644.     640.        3        0        0      .00   200.23 10061.40


*SECNO  .826

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .826     7.57  1346.37  1346.37      .00  1348.33     1.97     2.30      .42  1345.50
    5500.      36.    5464.       0.      15.     484.       0.    1428.     313.   1349.50
     4.90     2.42    11.29      .00     .035     .035     .000     .000  1338.80  9894.31
  .009901     680.     681.     660.       20       15        0      .00   143.22 10037.53


*SECNO  .945

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.27
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   SECNO    DEPTH    CWSEL    CRIWS    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


    .945     9.95  1350.35      .00      .00  1350.82      .47     2.34      .15  1348.60
   5500.     177.    5305.      18.     102.     945.      21.    1440.     317.   1349.50
    4.93     1.74     5.61      .87     .035     .035     .035     .000  1340.40  9737.76
 .001930     680.     628.     600.        4        0        0      .00   372.70 10110.46


*SECNO 1.035

3265 DIVIDED FLOW

   1.035     9.49  1351.39      .00      .00  1351.96      .57     1.11      .03  1350.80
   5500.     289.    5116.      95.      92.     824.      34.    1451.     321.   1348.80
    4.96     3.14     6.21     2.83     .035     .035     .035     .000  1341.90  9709.52
 .002907     440.     475.     460.        3        0        0      .00   287.56 10047.90


*SECNO 1.121
   1.121     9.07  1352.67      .00      .00  1353.12      .45     1.15      .01  1355.00
   5500.       0.    5500.       0.       0.    1021.       0.    1461.     323.   1353.60
    4.98      .00     5.39      .00     .000     .040     .000     .000  1343.60  9878.26
 .002214     480.     454.     440.        2        0        0      .00   187.00 10065.26


*SECNO 1.204

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .50

   1.204     9.12  1353.42      .00      .00  1355.25     1.82     1.72      .41  1355.60
   5500.       0.    5490.      10.       0.     506.       5.    1469.     325.   1352.50
    4.99      .00    10.84     2.08     .000     .040     .040     .000  1344.30  9953.47
 .008782     430.     438.     450.        2        0        0      .00    99.50 10052.97


*SECNO 1.315

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS
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SECNO	DEPTH	CWSEL	CRIWS	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

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.40

1.315	8.44	1357.24	.00	.00	1357.54	.30	2.14	.15	1359.70
5300.	0.	4378.	922.	0.	957.	288.	1483.	328.	1359.00
5.04	.00	4.58	3.20	.000	.040	.040	.000	1348.80	9908.22
.001412	720.	734.	700.	2	0	0	.00	248.61	10222.40

*SECNO 1.420
WATER EL=X5 CARD= 1359.300

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .46

1.420	5.30	1359.30	.00	.00	1359.78	.48	.54	.06	1358.00
2200.	880.	1280.	40.	245.	192.	21.	1491.	330.	1358.00
5.06	3.59	6.68	1.90	.020	.020	.020	.000	1354.00	9702.75
.001157	380.	407.	420.	0	0	0	.00	339.75	10042.50

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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          50 YEAR        J.MISCHLER

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

              3.                            0.0005                                  1219.08

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     2.                 -1.
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   SECNO    DEPTH    CWSEL    CRIWS    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


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 15.015
   15.015    13.39  1219.08      .00  1219.08  1221.10     2.02      .00      .00  1228.30
   16100.       0.   16100.       0.       0.    1411.       0.       0.       0.   1206.79
      .00      .00    11.41      .22     .000     .015     .015     .000  1205.69  9945.04
  .000508       0.       0.       0.        0        0        0      .00   110.02 10055.06


*SECNO 15.109
   15.109    13.40  1219.33      .00      .00  1221.35     2.02      .25      .00  1228.55
   16100.       0.   16100.       0.       0.    1412.       0.      16.       1.   1207.04
      .01      .00    11.40      .22     .000     .015     .015     .000  1205.94  9945.04
  .000507     500.     500.     500.        0        0        0      .00   110.02 10055.06


*SECNO 15.204
   15.204    13.40  1219.59      .00      .00  1221.61     2.02      .25      .00  1228.80
   16100.       0.   16100.       0.       0.    1412.       0.      32.       3.   1207.29
      .02      .00    11.40      .22     .000     .015     .015     .000  1206.19  9945.04
  .000507     500.     500.     500.        0        0        0      .00   110.02 10055.06


*SECNO 15.310

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.310    12.73  1219.61  1219.61      .00  1225.81     6.20      .51     1.25  1229.50
   16100.       0.   16100.       0.       0.     806.       0.      47.       4.   1230.00
      .03      .00    19.97      .00     .000     .015     .000     .000  1206.88  9967.54
  .002156     560.     560.     560.       20        8        0      .00    65.01 10032.55


*SECNO 15.454

3301 HV CHANGED MORE THAN HVINS
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*  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41

   15.454    16.05  1223.31      .00      .00  1227.17     3.86     1.12      .23  1229.88
   16100.       0.   16100.       0.       0.    1022.       0.      63.       5.   1230.38
      .05      .00    15.76      .00     .000     .015     .000     .000  1207.26  9967.53
  .001077     760.     760.     760.        4        0        0      .00    65.04 10032.57


*SECNO 15.530
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.530    10.70  1236.90  1236.90      .00  1241.17     4.27      .54      .12  1237.50
   16100.       0.   16100.       0.       0.     971.       0.      72.       6.   1238.45
      .05      .00    16.59      .00     .000     .015     .000     .000  1226.20  9942.71
  .001715     400.     400.     400.       20       14        0      .00   114.69 10057.39


*SECNO 15.680
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.680    10.70  1240.25  1240.25      .00  1244.52     4.27     1.36      .00  1240.85
   16100.       0.   16100.       0.       0.     971.       0.      89.       8.   1241.80
      .07      .00    16.58      .00     .000     .015     .000     .000  1229.55  9942.70
  .001714     792.     792.     792.       20        5        0      .00   114.70 10057.40


*SECNO 15.878
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.878    10.16  1244.03  1244.03      .00  1248.12     4.09     1.79      .02  1244.70
   16100.       0.   16100.       0.       0.     992.       0.     113.      11.   1244.71
      .08      .00    16.23      .00     .000     .015     .000     .000  1233.87  9939.34
  .001710    1045.    1045.    1045.       20        8        0      .00   121.29 10060.64


*SECNO 15.920
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO	DEPTH	CWSEL	CRIWS	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
15.920	10.13	1244.97	1244.97	.00	1249.09	4.12	.39	.01	1245.67
16100.	0.	16100.	0.	0.	988.	0.	118.	11.	1245.68
.09	.00	16.29	.00	.000	.015	.000	.000	1234.84	9939.40
.001727	225.	225.	225.	20	5	0	.00	121.18	10060.58

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1243.36 , NOT 1244.97 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	82.32	6.00	1447.00	1.84	1235.45	1235.07

*SECNO 15.940
3280 CROSS SECTION 15.94 EXTENDED 1.89 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1245.48 BRIDGE VELOCITY= 16.57 CALCULATED CHANNEL AREA= 950.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1247.97	1250.29	.00	0.	16100.	1447.	1448.	1249.60	1253.60	0.
15.940	12.72	1247.94	.00	.00	1250.29	2.35	1.20	.00	1246.05
16100.	0.	16100.	0.	0.	1308.	0.	121.	11.	1246.06
.09	.00	12.31	.00	.000	.015	.000	.000	1235.22	9938.00
.000728	100.	100.	100.	0	0	0	.00	124.00	10062.00

*SECNO 16.023

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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   SECNO     DEPTH     CWSEL     CRIWS     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


   16.023    12.64  1250.09  1250.09      .00  1254.76     4.67      .47      .69  1252.50
   16100.       0.   16100.       0.       0.     929.       0.     132.      13.   1251.95
      .10      .00    17.34      .00     .000     .015     .000     .000  1237.45   9949.63
  .001704     441.     441.     441.       20        5        0      .00   100.88 10050.51


*SECNO 16.148
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.148    12.66  1252.90  1252.90      .00  1257.55     4.65     1.12      .00  1255.29
   16100.       0.   16100.       0.       0.     930.       0.     146.      14.   1254.74
      .11      .00    17.31      .00     .000     .015     .000     .000  1240.24   9949.60
  .001696     660.     660.     660.       20        5        0      .00   100.94 10050.54


*SECNO 16.264
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.264    12.66  1255.49  1255.49      .00  1260.14     4.65     1.04      .00  1257.88
   16100.       0.   16100.       0.       0.     930.       0.     159.      16.   1257.33
      .12      .00    17.31      .00     .000     .015     .000     .000  1242.83   9949.60
  .001697     612.     612.     612.       20        5        0      .00   100.93 10050.54


*SECNO 16.373
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.373    12.66  1257.92  1257.92      .00  1262.57     4.66      .98      .00  1260.31
   16100.       0.   16100.       0.       0.     930.       0.     171.      17.   1259.76
      .13      .00    17.32      .00     .000     .015     .000     .000  1245.26   9949.61
  .001698     576.     576.     576.       20        5        0      .00   100.92 10050.53


*SECNO 16.481
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.481    11.78  1259.37  1259.37      .00  1263.86     4.49      .97      .02  1261.20
   15700.       0.   15700.       0.       0.     923.       0.     184.      18.   1259.70
      .14      .00    17.00      .00     .000     .015     .000     .000  1247.59   9947.48
  .001707     570.     570.     570.        3       11        0      .00   103.87 10051.34
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 16.601
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.601    11.76  1262.02  1262.02      .00  1266.53     4.51     1.09      .01  1263.87
   15700.       0.   15700.       0.       0.     921.       0.     197.      20.   1262.37
      .15      .00    17.04      .00     .000     .015     .000     .000  1250.26  9947.52
  .001718     634.     634.     634.       20        5        0      .00   103.78 10051.30


*SECNO 16.694
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.694    11.08  1263.34  1263.34      .00  1267.68     4.34      .84      .02  1263.90
   15700.       0.   15700.       0.       0.     939.       0.     208.      21.   1264.42
      .15      .00    16.72      .00     .000     .015     .000     .000  1252.26  9945.46
  .001720     491.     491.     491.        4       11        0      .00   109.60 10055.06


*SECNO 16.823
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.823    11.09  1266.23  1266.23      .00  1270.56     4.33     1.17      .00  1266.78
   15700.       0.   15700.       0.       0.     940.       0.     222.      23.   1267.30
      .17      .00    16.70      .00     .000     .015     .000     .000  1255.14  9945.45
  .001714     681.     681.     681.       20        5        0      .00   109.63 10055.08


*SECNO 16.902
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.902    11.07  1267.26  1267.26      .00  1271.47     4.21      .72      .01  1268.80
   15700.       0.   15700.       0.       0.     954.       0.     231.      24.   1270.33
      .17      .00    16.46      .00     .000     .015     .000     .000  1256.19  9943.09
  .001732     417.     417.     417.        3        5        0      .00   114.76 10057.85


*SECNO 16.970
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.970    11.71  1268.07  1268.07      .00  1272.21     4.13      .63      .01  1269.30
   15700.       0.   15700.       0.       0.     962.       0.     239.      25.   1270.78
      .18      .00    16.32      .00     .000     .015     .000     .000  1256.36  9940.75
  .001760     359.     359.     359.        2        8        0      .00   118.53 10059.28
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SECNO    DEPTH    CWSEL    CRIWS    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


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1266.51 , NOT    1268.07 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     .90      1.56      3.00    100.00     82.57      6.00   1513.00      1.61   1258.71   1258.33

*SECNO 16.988
3280 CROSS SECTION     16.99 EXTENDED      1.29 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.54

CLASS B LOW FLOW

3420 BRIDGE W.S.=    1268.66 BRIDGE VELOCITY=      16.67     CALCULATED CHANNEL AREA=       921.

 EGPRS      EGLWC       H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                               AREA
      .00   1273.31      .00        0.    15700.     1513.     1516.     1273.75   1277.80        0.


  16.988    14.58  1270.99      .00      .00  1273.31     2.32     1.10      .00  1269.70
  15700.      0.   15700.       0.       0.    1285.       0.     241.      25.   1270.17
     .18     .00    12.22      .00     .000     .015     .000     .000  1256.41  9938.30
 .000744     90.      90.      90.        0        0        0      .00   125.60 10063.90


*SECNO 17.061

3301 HV CHANGED MORE THAN HVINS


  17.061    14.04  1270.65      .00      .00  1273.97     3.32      .37      .30  1271.30
  15700.      0.   15700.       0.       0.    1073.       0.     252.      26.   1271.79
     .19     .00    14.63      .00     .000     .015     .000     .000  1256.61  9939.59
 .001290    380.     380.     380.        3        0        0      .00   122.62 10062.21


*SECNO 17.206
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   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   17.206     5.63  1272.63  1272.63      .00  1275.32     2.70     1.20      .06  1279.00
   15700.       0.   15700.       0.       0.    1191.       0.     272.      29.   1279.00
      .20      .00    13.18      .00     .000     .015     .000     .000  1267.00  9888.28
  .001930     769.     769.     769.        8       18        0      .00   223.44 10111.72


*SECNO 17.360
 WATER EL=X5 CARD=   1275.200

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 11.79

   17.360    18.50  1275.20      .00      .00  1275.22      .02      .04      .27  1282.20
   15700.       0.   15700.       0.       0.   13476.       0.     409.      39.   1281.80
      .40      .00     1.17      .00     .000     .030     .000     .000  1256.70  9523.76
  .000014     820.     813.     830.        0        0        0      .00   846.90 10370.66


*SECNO 17.494

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   17.494    10.32  1280.62  1280.62      .00  1282.55     1.93      .03      .57  1279.10
   13400.      58.   11018.    2324.      19.     928.     339.     528.      49.   1278.50
      .42     3.05    11.87     6.85     .030     .030     .030     .000  1270.30  9879.05
  .005468     750.     707.     670.       20       11        0      .00   364.90 10243.95


*SECNO 17.588

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.82

   17.588    13.57  1283.17      .00      .00  1283.46      .29      .75      .16  1278.10
   13400.    2821.   10329.     251.     912.    2228.     115.     554.      53.   1276.40
      .45     3.09     4.64     2.17     .040     .040     .040     .000  1269.60  9780.44
  .000690     440.     496.     560.        2        0        0      .00   446.65 10227.09
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 17.662

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .48

   17.662    11.71  1283.31      .00      .00  1284.10      .79      .49      .15  1276.40
   13400.    3376.   10001.      23.     549.    1344.      13.     577.      57.   1281.60
      .46     6.15     7.44     1.81     .040     .040     .040     .000  1271.60  9831.99
  .002969     380.     391.     400.        3        0        0      .00   312.72 10144.71


*SECNO 17.783

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .67

   17.783     9.70  1285.10      .00      .00  1287.11     2.00     2.64      .36  1280.50
   13400.     222.   12639.     539.      43.    1089.     89.     599.      60.   1281.10
      .48     5.15    11.61     6.04     .040     .040     .040     .000  1275.40  9902.30
  .006568     540.     639.     500.        3        0        0      .00   197.12 10099.42


*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

   17.932    12.44  1290.34      .00      .00  1293.56     3.22     6.09      .37  1289.70
   13400.       9.   13391.       0.       5.     929.      0.     618.      63.   1290.20
      .49     1.66    14.41      .59     .040     .040     .040     .000  1277.90  9938.72
  .009243     790.     787.     780.        3        0        0      .00   132.95 10071.68


CCHV=     .300 CEHV=     .500
*SECNO 18.042

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.55

   18.042    11.27  1293.57      .00      .00  1296.94     3.37     3.31      .07  1307.40
   13400.       0.   13400.       0.       0.     910.      0.     631.      65.   1307.40
      .50      .00    14.73      .00     .000     .025     .000     .000  1282.30  9951.64
  .003864     620.     581.     550.        4        0        0      .00    96.70 10048.33
```

SECNO	DEPTH	CWSEL	CRIWS	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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	.00	75.00	4.00	1059.00	.81	1280.20	1279.90

*SECNO 18.061
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1293.37 BRIDGE VELOCITY= 12.30 CALCULATED CHANNEL AREA= 1076.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1297.45	1297.79	.96	0.	13400.	1059.	1060.	1293.20	1301.60	0.

18.061	11.43	1294.53	.00	.00	1297.79	3.26	.85	.00	1308.20
13400.	0.	13400.	0.	0.	925.	0.	633.	65.	1308.20
.51	.00	14.49	.00	.000	.025	.000	.000	1283.10	9951.63
.003666	101.	101.	101.	0	0	0	.00	96.71	10048.34

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.21

18.081	16.90	1298.00	.00	.00	1298.71	.71	.15	.76	1286.60
13400.	874.	11307.	1220.	241.	1579.	298.	637.	65.	1284.90
.51	3.63	7.16	4.09	.035	.035	.035	.000	1281.10	9899.76
.000753	80.	106.	130.	3	0	0	.00	193.98	10093.74

CCHV= .100 CEHV= .300
*SECNO 18.174

3265 DIVIDED FLOW

18.174	16.98	1298.68	.00	.00	1299.03	.35	.29	.04	1288.70
13400.	1327.	10725.	1348.	384.	2093.	640.	666.	69.	1294.60
.54	3.46	5.12	2.10	.035	.035	.035	.000	1281.70	9862.81
.000460	500.	491.	490.	2	0	0	.00	471.77	10413.96

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 18.269

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .67

   18.269    14.92  1298.72      .00      .00  1299.49      .77      .33      .12  1288.40
   13400.    1832.   11139.     428.     362.    1506.     132.     696.      73.   1292.40
      .56     5.06     7.40     3.24     .035     .035     .035     .000  1283.80  9887.41
  .001032     500.     502.     500.        2        0        0      .00   213.86 10101.27


*SECNO 18.362
   18.362    13.85  1299.15      .00      .00  1300.14      .99      .59      .07  1290.00
   13400.     808.   11857.     735.     180.    1422.     177.     717.      75.   1290.60
      .58     4.48     8.34     4.15     .035     .035     .035     .000  1285.30  9902.19
  .001411     490.     491.     510.        2        0        0      .00   199.28 10101.48


*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   18.445    17.47  1304.77  1304.77      .00  1306.91     2.14     1.04      .34  1290.00
   13400.    4398.    3571.    5430.     505.     210.     582.     733.      78.   1290.00
      .59     8.71    17.04     9.33     .035     .035     .035     .000  1287.30  9889.23
  .004419     470.     440.     460.       20       11        0      .00   298.93 10188.16


SPECIAL BRIDGE

SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
      .90     2.34     3.00      .00     6.11     1.00    33.20      .00  1287.70  1287.40

*SECNO 18.456

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.55
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SECNO	DEPTH	CWSEL	CRIWS	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

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRO	WEIRLN
7223.98	1307.93	1.03	13106.	305.	33.	33.	1294.20	1299.50	451.

18.456	19.23	1306.93	.00	.00	1307.83	.90	.93	.00	1290.40
13400.	4508.	2741.	6151.	697.	233.	1064.	735.	79.	1290.40
.59	6.47	11.79	5.78	.035	.035	.035	.000	1287.70	9876.82
.001840	60.	60.	60.	3	0	8	.00	438.12	10314.93

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.17

18.545	18.53	1307.83	.00	.00	1308.22	.39	.34	.05	1294.10
13400.	1458.	9981.	1962.	464.	1809.	633.	761.	82.	1293.80
.62	3.14	5.52	3.10	.035	.035	.035	.000	1289.30	9883.50
.000392	440.	466.	480.	2	0	0	.00	283.50	10167.00

*SECNO 18.575

18.575	18.65	1307.95	.00	.00	1308.29	.34	.06	.01	1291.50
13400.	3071.	2791.	7538.	790.	498.	1651.	772.	84.	1289.70
.63	3.89	5.61	4.56	.035	.035	.035	.000	1289.30	9882.92
.000378	160.	160.	160.	2	0	0	.00	284.87	10167.79

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

SECNO	DEPTH	CWSEL	CRIWS	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

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
2670.50	1308.36	.07	12993.	401.	57.	56.	1295.40	1299.00	279.

18.583	19.49	1308.89	.00	.00	1309.17	.29	.88	.00	1291.60
13400.	3153.	2708.	7540.	866.	521.	1794.	775.	84.	1289.80
.63	3.64	5.20	4.20	.035	.035	.035	.000	1289.40	9878.87
.000305	40.	40.	40.	2	0	7	.00	294.44	10173.31

*SECNO 18.640

18.640	18.63	1308.83	.00	.00	1309.38	.55	.13	.08	1294.60
13400.	1961.	8764.	2675.	468.	1304.	651.	794.	86.	1293.40
.64	4.19	6.72	4.11	.035	.035	.035	.000	1290.20	9883.82
.000590	300.	301.	310.	2	0	0	.00	245.17	10128.99

*SECNO 18.734

18.734	16.66	1309.06	.00	.00	1309.79	.73	.36	.05	1298.60
13400.	1043.	11918.	439.	271.	1671.	145.	820.	88.	1300.80
.66	3.85	7.13	3.04	.035	.035	.035	.000	1292.40	9886.18
.000894	490.	496.	500.	1	0	0	.00	223.31	10109.49

*SECNO 18.832

18.832	16.32	1309.52	.00	.00	1310.26	.74	.47	.00	1302.80
13400.	325.	11429.	1646.	114.	1580.	358.	845.	91.	1297.10
.69	2.85	7.24	4.60	.035	.035	.035	.000	1293.20	9895.04
.000917	480.	517.	540.	2	0	0	.00	209.35	10104.39

*SECNO 18.925

18.925	15.33	1309.93	.00	.00	1310.77	.84	.48	.03	1297.60
13400.	1416.	11266.	718.	312.	1449.	183.	867.	93.	1300.00
.70	4.54	7.78	3.92	.035	.035	.035	.000	1294.60	9890.45
.001052	480.	491.	500.	2	0	0	.00	194.45	10084.90

*SECNO 19.018

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   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .62

   19.018    12.59  1310.19      .00      .00  1311.79     1.59      .79      .23  1305.10
   13400.     340.   13049.      11.      83.    1274.      6.     886.      95.   1308.40
      .72     4.13    10.25     2.02     .035     .035     .035     .000  1297.60  9870.60
  .002760     460.     491.     520.        2        0        0      .00   165.55 10036.15


*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   19.117    12.98  1311.58  1311.58      .00  1315.69     4.11     2.16      .76  1302.90
   13400.    1100.   10634.   1666.     122.     604.     167.     899.      97.   1301.50
      .73     9.03    17.60     9.99     .035     .035     .035     .000  1298.60  9944.93
  .006791     490.     523.     560.       20        8        0      .00   114.17 10059.11


*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.61

   19.210    16.01  1316.21      .00      .00  1317.89     1.68     1.96      .24  1312.00
   13400.     132.   13142.     126.      38.    1251.      36.     912.      98.   1312.00
      .74     3.50    10.50     3.50     .035     .035     .035     .000  1300.20  9927.12
  .002614     500.     491.     490.        3        0        0      .00   150.07 10077.19


CCHV=     .300 CEHV=     .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS
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SECNO	DEPTH	CWSEL	CRIWS	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

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1324.00 ELREA= 1324.00

19.283	7.47	1319.17	1319.17	.00	1322.95	3.78	1.69	1.05	1311.70
12700.	0.	12700.	0.	0.	814.	0.	921.	99.	1311.70
.75	.00	15.59	.00	.000	.035	.000	.000	1311.70	9948.00
.009233	390.	386.	390.	20	14	0	.00	109.00	10057.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.09 , NOT 1319.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1319.41 BRIDGE VELOCITY= 15.76 CALCULATED CHANNEL AREA= 806.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1323.50	.00	0.	12700.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	9.44	1321.14	.00	.00	1323.50	2.37	.56	.00	1311.70
12700.	0.	12700.	0.	0.	1029.	0.	923.	100.	1311.70
.75	.00	12.35	.00	.000	.035	.000	.000	1311.70	9948.00
.004241	86.	86.	86.	0	0	0	.00	109.00	10057.00

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 19.313
   19.313    10.28  1321.98      .00      .00  1323.96     1.98      .34      .12  1327.90
   12700.       0.   12700.       0.       0.    1124.       0.     925.     100.   1325.50
      .75      .00    11.29      .00     .000     .035     .000     .000  1311.70  9947.91
  .005021      75.      74.      75.        3        0        0      .00   151.25 10099.17


CCHV=     .100 CEHV=     .300
*SECNO 19.418
   19.418    11.79  1324.79      .00      .00  1326.48     1.70     2.50      .03  1328.00
   12700.       0.   12700.       0.       0.    1215.       0.     940.     102.   1326.10
      .77      .00    10.45      .00     .000     .035     .000     .000  1313.00  9957.48
  .004065     570.     554.     530.        2        0        0      .00   156.84 10114.32


*SECNO 19.560
   19.560    11.82  1327.42      .00      .00  1329.14     1.73     2.65      .01  1329.70
   12700.       0.   12700.       0.       0.    1205.       0.     960.     104.   1330.60
      .78      .00    10.54      .00     .000     .035     .000     .000  1315.60  9932.65
  .003266     730.     729.     720.        2        0        0      .00   126.99 10059.64


CCHV=     .300 CEHV=     .500
*SECNO 19.625

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.54


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1332.00 ELREA=     1332.00

   19.625    11.37  1328.97      .00      .00  1329.77      .80      .35      .28  1317.60
    4900.       0.    4900.       0.       0.     682.       0.     968.     105.   1317.60
      .80      .00     7.18      .00     .000     .015     .000     .000  1317.60  9965.00
  .000205     580.     364.      70.        2        0        0      .00    60.00 10025.00
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SECNO	DEPTH	CWSEL	CRIWS	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	CURAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	CDFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	60.00	2.00	564.00	.00	1318.60	1317.60

*SECNO 19.691
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1330.80	1329.99	.06	0.	4900.	564.	563.	1328.30	1334.80	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1333.00 ELREA= 1333.00

19.691	11.41	1330.01	.00	.00	1330.80	.80	1.03	.00	1318.60
4900.	0.	4900.	0.	0.	685.	0.	973.	106.	1318.60
.81	.00	7.16	.00	.000	.015	.000	.000	1318.60	9965.00
.000203	330.	350.	430.	2	0	0	.00	60.00	10025.00

*SECNO 19.742

19.742	11.30	1330.40	.00	.00	1330.93	.53	.05	.08	1331.60
4900.	0.	4900.	0.	0.	838.	0.	978.	106.	1331.00
.83	.00	5.85	.00	.000	.015	.000	.000	1319.10	9949.82
.000200	80.	269.	470.	2	0	0	.00	91.39	10041.21

CCHV= .100 CEHV= .300
*SECNO 19.847

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .35

19.847	11.77	1330.57	.00	.00	1331.21	.65	.24	.03	1336.30
4900.	0.	4900.	0.	0.	760.	0.	988.	107.	1335.80
.85	.00	6.45	.00	.000	.035	.000	.000	1318.80	9945.02
.001636	570.	554.	520.	2	0	0	.00	100.53	10045.55

*SECNO 19.960

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   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   19.960     7.02  1331.62  1331.62      .00  1334.14     2.52     1.99      .56  1330.00
    4900.      15.    4872.      12.       4.     382.       3.     996.     108.   1330.00
      .86     3.62    12.77     3.57     .035     .035     .035     .000  1324.60  9952.81
  .010218     640.     597.     560.        3       14        0      .00    82.47 10035.29


CCHV=     .300 CEHV=     .500
*SECNO 19.974

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.85


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1336.00 ELREA=     1336.00

   19.974     9.33  1333.13      .00      .00  1334.78     1.65      .37      .26  1323.80
    4900.       0.    4900.       0.       0.     476.       0.     997.     109.   1323.80
      .86      .00    10.30      .00     .000     .035     .000     .000  1323.80  9969.00
  .002996     105.     74.       65.        3        0        0      .00    51.00 10020.00


SPECIAL BRIDGE

SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
     1.25     1.56     3.00       .00    51.00     3.00   480.00      .00   1324.10  1323.80

*SECNO 19.986
PRESSURE FLOW


 EGPRS     EGLWC     H3      QWEIR     QPR      BAREA   TRAPEZOID     ELLC     ELTRD    WEIRLN
                                                          AREA
   1335.65  1335.17      .59       0.    4900.     480.     480.    1334.10  1337.90       0.
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   SECNO    DEPTH    CWSEL    CRIWS    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


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1337.00 ELREA=     1337.00

   19.986    10.57  1334.37      .00      .00  1335.65     1.28      .88      .00  1323.80
    4900.       0.    4900.       0.       0.     539.       0.     998.     109.   1323.80
      .87      .00     9.09      .00     .000     .035     .000     .000  1323.80  9969.00
  .001974      61.      61.      61.        3        0        0      .00    51.00 10020.00


*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1340.00 ELREA=     1339.40

   20.049    10.39  1337.49  1337.49      .00  1340.87     3.38     1.30     1.05  1343.40
    4900.       0.    4900.       0.       0.     332.       0.    1001.     109.   1339.40
      .87      .00    14.75      .00     .000     .035     .000     .000  1327.10  9973.10
  .011194     305.     333.     345.       20        5        0      .00    50.60 10023.70


CCHV=     .100 CEHV=     .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.73


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1344.00 ELREA=     1340.80

   20.144    11.66  1342.56      .00      .00  1344.07     1.51     3.01      .19  1344.60
    4900.       0.    4862.      38.       0.     491.      16.    1006.     110.   1340.80
      .89      .00     9.90     2.33     .000     .035     .040     .000  1330.90  9965.20
  .003736     490.     502.     500.        2        0        0      .00    76.07 10041.27
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 20.242

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1348.00 ELREA=     1342.80

   20.242    11.26  1344.56      .00      .00  1346.09     1.53     2.02      .01  1347.20
    4900.       0.    4834.      66.       0.     484.      22.    1012.     111.   1342.80
      .90      .00     9.99     2.96     .000     .035     .040     .000  1333.30  9965.83
  .004074     470.     517.     560.        3        0        0      .00    80.50 10046.33


*SECNO 20.335
   20.335     9.33  1346.63      .00      .00  1347.70     1.06     1.56      .05  1344.00
    4900.      16.    4870.      14.       8.     587.       7.    1018.     112.   1344.00
      .92     2.11     8.30     2.09     .040     .035     .040     .000  1337.30  9952.30
  .002540     510.     491.     470.        2        0        0      .00    84.96 10037.27


CCHV=     .300 CEHV=     .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1351.50 ELREA=     1351.50

   20.347     9.31  1346.51      .00      .00  1348.17     1.65      .17      .29  1337.20
    4900.       0.    4900.       0.       0.     475.       0.    1019.     112.   1337.20
      .92      .00    10.31      .00     .000     .035     .000     .000  1337.20  9970.00
  .003010       1.      63.     150.        2        0        0      .00    51.00 10021.00


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00    100.00     51.00      3.00    576.00       .00   1337.70   1337.20

*SECNO 20.366
CLASS A LOW FLOW

3420 BRIDGE W.S.=    1346.39 BRIDGE VELOCITY=      11.42     CALCULATED CHANNEL AREA=       417.
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SECNO	DEPTH	CWSEL	CRIWS	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

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1348.57	.59	0.	4900.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	9.90	1347.10	.00	.00	1348.57	1.46	.40	.00	1337.20
4900.	0.	4900.	0.	0.	505.	0.	1020.	112.	1337.20
.92	.00	9.70	.00	.000	.035	.000	.000	1337.20	9970.00
.002454	100.	100.	100.	0	0	0	.00	51.00	10021.00

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

20.423	10.47	1348.47	.00	.00	1349.42	.95	.70	.15	1345.00
4900.	53.	4631.	216.	21.	579.	60.	1024.	112.	1344.30
.93	2.46	8.00	3.61	.040	.035	.040	.000	1338.00	9962.62
.002214	415.	301.	205.	3	0	0	.00	104.91	10067.53

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	8.83	1348.13	.00	.00	1349.97	1.84	.10	.44	1339.30
4900.	0.	4900.	0.	0.	450.	0.	1024.	112.	1339.30
.93	.00	10.88	.00	.000	.035	.000	.000	1339.30	9985.00
.003599	1.	37.	65.	2	0	0	.00	51.00	10036.00

SECNO	DEPTH	CWSEL	CRIWS	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	CCRAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1347.62 BRIDGE VELOCITY= 12.27 CALCULATED CHANNEL AREA= 399.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1350.43	.74	0.	4900.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	9.57	1348.87	.00	.00	1350.43	1.57	.47	.00	1339.30
4900.	0.	4900.	0.	0.	488.	0.	1025.	113.	1339.30
.94	.00	10.04	.00	.000	.035	.000	.000	1339.30	9985.00
.002753	70.	70.	70.	0	0	0	.00	51.00	10036.00

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

20.529	8.06	1351.06	.00	.00	1351.90	.84	1.25	.22	1350.20
4900.	32.	4848.	19.	23.	656.	16.	1031.	114.	1350.40
.95	1.42	7.39	1.17	.040	.035	.040	.000	1343.00	9908.91
.002815	545.	449.	375.	3	0	0	.00	182.03	10090.94

CCHV= .100 CEHV= .300
*SECNO 20.628

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

20.628	9.17	1352.47	.00	.00	1352.87	.40	.92	.04	1357.10
4900.	0.	4900.	0.	0.	964.	0.	1041.	116.	1356.30
.98	.00	5.08	.00	.000	.035	.000	.000	1343.30	9919.76
.001203	530.	523.	520.	2	0	0	.00	146.50	10066.26

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   20.725     8.17  1355.37  1355.37      .00  1358.21     2.84     1.39      .73  1360.40
    4900.       0.    4900.       0.       0.     362.       0.    1049.     117.   1361.00
      .99      .00    13.53      .00     .000     .035     .000     .000  1347.20  9960.56
  .011033     510.     512.     520.       20       11        0      .00    64.67 10025.23


CCHV=     .300 CEHV=     .500
*SECNO 20.737
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1363.00 ELREA=      1363.00

   20.737     6.57  1357.47  1357.47      .00  1360.79     3.32      .82      .24  1350.90
    4900.       0.    4900.       0.       0.     335.       0.    1050.     117.   1350.90
      .99      .00    14.63      .00     .000     .035     .000     .000  1350.90  9966.00
  .009646      80.      80.      80.       20       15        0      .00    51.00 10019.00


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1356.35 , NOT    1357.47 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00    100.00     51.00      3.00    576.00       .00   1351.00   1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.59
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SECNO	DEPTH	CWSEL	CRIWS	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

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1357.81 BRIDGE VELOCITY= 14.87 CALCULATED CHANNEL AREA= 327.

EGFRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1361.58	.00	0.	4900.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	8.68	1359.68	.00	.00	1361.58	1.90	.79	.00	1351.00
4900.	0.	4900.	0.	0.	443.	0.	1050.	117.	1351.00
1.00	.00	11.07	.00	.000	.035	.000	.000	1351.00	9968.00
.003812	71.	71.	71.	0	0	0	.00	51.00	10019.00

*SECNO 20.819

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .62

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.05	1361.55	1361.46	.00	1363.95	2.40	2.12	.25	1356.50
4900.	0.	4900.	0.	0.	394.	0.	1054.	118.	1356.50
1.00	.00	12.43	.00	.000	.035	.000	.000	1356.50	9965.00
.009874	375.	365.	345.	4	11	0	.00	78.00	10043.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1360.75 , NOT 1361.55 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

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SECNO    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.45

CLASS B LOW FLOW

3420 BRIDGE W.S.=    1362.09 BRIDGE VELOCITY=      12.87     CALCULATED CHANNEL AREA=       347.

 EGPRS      EGLWC       H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                                  AREA
       .00   1365.25      .00        0.     4900.      655.      592.     1365.40   1369.90        0.



3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1367.90 ELREA=      1367.90

   20.841     6.31  1363.71      .00      .00  1365.25     1.54     1.30      .00  1357.40
    4900.       0.    4900.       0.       0.     492.       0.    1055.     118.   1357.40
     1.01      .00     9.95      .00     .000     .035     .000     .000  1357.40  9965.00
  .004707     115.     115.     115.        0        0        0      .00    78.00 10043.00


*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.46


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1365.30 ELREA=      1367.60

   20.860     8.82  1365.12      .00      .00  1365.82      .70      .31      .25  1365.30
    4900.       0.    4900.       0.       0.     732.       0.    1056.     118.   1367.60
     1.01      .00     6.69      .00     .000     .035     .000     .000  1356.30  9942.80
  .002221      90.     100.     110.        3        0        0      .00   117.12 10059.92


CCHV=     .100 CEHV=     .300
*SECNO 20.942
   20.942     7.03  1366.63      .00      .00  1367.12      .48     1.28      .02  1368.60
    4900.       0.    3306.    1594.       0.     563.     323.    1065.     120.   1366.50
     1.03      .00     5.87     4.93     .000     .035     .035     .000  1359.60  9857.04
  .003928     530.     433.     490.        2        0        0      .00   309.48 10166.52
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.036     6.94  1370.44  1370.44      .00  1372.51     2.07     3.17      .48  1370.70
    4900.       0.    4900.       0.       0.     424.       0.    1072.     123.   1370.40
     1.04      .00    11.54      .04     .000     .035     .040     .000  1363.50  9912.38
  .012285     490.     496.     490.       20        6        0      .00   108.78 10021.15


*SECNO 21.127

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.87


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1374.00 ELREA=     1375.00

   21.127     7.96  1374.66      .00      .00  1375.46      .80     2.82      .13  1374.20
    4900.     848.    4052.       0.     364.     517.       0.    1079.     125.   1375.00
     1.06     2.33     7.83      .00     .040     .035     .000     .000  1366.70  9631.80
  .003509     400.     480.     500.        3        0        0      .00   433.87 10065.67


*SECNO 21.230

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.230     8.14  1380.14  1380.14      .00  1381.31     1.17     2.53      .11  1379.30
    4900.     333.    3626.     942.     121.     375.     175.    1089.     130.   1380.60
     1.08     2.75     9.68     5.39     .040     .035     .040     .000  1372.00  9821.74
  .006518     560.     544.     500.       20        8        0      .00   298.27 10126.33
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 21.363

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.02

   21.363     8.82  1382.92      .00      .00  1383.39      .47     2.01      .07  1384.40
    4900.      56.    4840.       4.      33.     875.       6.    1101.     134.   1382.10
     1.12     1.70     5.53      .67     .040     .035     .040     .000  1374.10  9557.91
  .001591     740.     702.     700.        3        0        0      .00   203.11 10186.41


*SECNO 21.484

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.484     7.82  1386.32  1386.32      .00  1387.20      .88     1.77      .12  1386.90
    4900.    1555.    3342.       3.     428.     382.       2.    1114.     139.   1386.50
     1.14     3.63     8.75     1.37     .040     .035     .040     .000  1378.50  9506.20
  .005901     650.     639.     520.       20       12        0      .00   474.98 10076.30


*SECNO 21.576

3265 DIVIDED FLOW

3280 CROSS SECTION     21.58 EXTENDED       .38 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.576     6.98  1389.08  1389.08      .00  1389.81      .73     2.37      .01  1390.00
    4900.     467.    3660.     773.     253.     471.     250.    1123.     145.   1388.30
     1.16     1.85     7.77     3.09     .040     .035     .040     .000  1382.10  9388.00
  .004687     320.     486.     480.        1       12        0      .00   828.58 10337.94
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 21.669

3265 DIVIDED FLOW

3230 CROSS SECTION     21.67 EXTENDED       .06 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.669     9.26  1393.26  1393.26      .00  1393.83      .57     2.11      .02  1393.80
    4800.     689.    2600.    1510.     333.     331.     515.    1134.     154.   1392.00
     1.19     2.07     7.86     2.93     .040     .035     .040     .000  1384.00  9392.00
  .004121     440.     491.     470.       20       12        0      .00   946.87 10413.78


*SECNO 21.742

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

   21.742     8.33  1394.73  1393.72      .00  1395.96     1.23     1.93      .20  1394.70
    4800.       0.    4752.      47.       1.     531.      31.    1142.     159.   1394.20
     1.20      .44     8.96     1.54     .040     .035     .040     .000  1386.40  9751.21
  .004056     430.     385.     390.        4       15        0      .00   237.54 10307.92


*SECNO 21.840

3265 DIVIDED FLOW

   21.840     6.70  1397.80      .00      .00  1398.55      .75     2.54      .05  1396.20
    4800.     789.    3776.     235.     189.     498.     117.    1150.     163.   1397.00
     1.22     4.18     7.58     2.01     .040     .035     .040     .000  1391.10  9858.13
  .004221     430.     517.     430.        2        0        0      .00   424.71 10282.97


*SECNO 21.895
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.895     7.57  1399.47  1399.47      .00  1400.27      .79     1.32      .01  1398.00
    4800.    1348.    2684.     768.     301.     301.     321.    1156.     166.   1397.70
     1.23     4.48     8.91     2.39     .040     .035     .040     .000  1391.90  9835.42
  .004881     330.     290.     220.        3        8        0      .00   591.51 10426.93
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.01

   21.933     3.86  1400.66      .00      .00  1400.78      .12      .45      .07  1398.00
    4800.    1462.    2904.     435.     703.     896.     241.    1162.     170.   1398.00
     1.25     2.08     3.24     1.81     .040     .035     .040     .000  1396.80  9359.56
  .001294     210.     210.     210.        2        0        0      .00   925.55 10285.11


*SECNO 21.953

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.953     6.79  1400.79  1400.79      .00  1401.75      .96      .20      .25  1400.20
    4800.    1902.    2788.     110.     376.     297.      26.    1165.     171.   1398.30
     1.26     5.06     9.40     4.21     .045     .045     .045     .000  1394.00  9454.94
  .009899      75.      74.      75.       20       14        0      .00   390.64 10050.42


*SECNO 22.065

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.00

   22.065     8.07  1403.87      .00      .00  1404.03      .16     2.20      .08  1404.10
    4800.    3559.    1185.      57.    1250.     281.      27.    1177.     177.   1402.00
     1.30     2.85     4.22     2.09     .045     .045     .045     .000  1395.80  9251.27
  .002482     430.     591.     630.        4        0        0      .00   751.58 10048.73
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 22.165

3265 DIVIDED FLOW

   22.165    10.02  1405.02      .00      .00  1405.22      .21     1.18      .01  1400.90
    4800.    3434.    1347.      20.    1224.     258.      16.    1195.     186.   1403.70
     1.34     2.81     5.22     1.19     .045     .045     .045     .000  1395.00  9149.45
  .001997     530.     528.     530.        3        0        0      .00   742.21 10046.39


*SECNO 22.273

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

   22.273     7.02  1406.42      .00      .00  1407.09      .67     1.73      .14  1404.10
    4800.    1597.    3203.       0.     365.     431.       0.    1209.     192.   1406.90
     1.36     4.38     7.42      .00     .045     .045     .000     .000  1399.40  9323.63
  .006728     470.     570.     580.        2        0        0      .00   366.19 10026.85


*SECNO 22.410

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   22.410     9.70  1413.70  1413.70      .00  1415.50     1.81     5.78      .34  1410.70
    4800.     495.    4230.      75.     108.     372.      20.    1220.     196.   1411.30
     1.38     4.56    11.37     3.66     .045     .045     .045     .000  1404.00  9858.52
  .009520     750.     723.     630.        4       11        0      .00   163.40 10051.87


*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS
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SECNO	DEPTH	CWSEL	CRIWS	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

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 4.89

22.483	10.49	1415.99	.00	.00	1416.09	.11	.42	.17	1411.10
4800.	230.	4056.	514.	165.	1447.	331.	1230.	199.	1411.20
1.42	1.40	2.80	1.55	.045	.045	.045	.000	1405.50	9878.58
.000398	380.	385.	390.	3	0	0	.00	320.28	10198.87

*SECNO 22.578

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .31

22.578	9.23	1415.93	.00	.00	1416.78	.85	.46	.22	1416.60
4800.	0.	4800.	0.	0.	650.	0.	1245.	201.	1421.20
1.44	.00	7.39	.00	.000	.045	.000	.000	1406.70	9969.01
.004082	540.	502.	490.	3	0	0	.00	94.53	10063.54

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.43

22.675	7.74	1417.44	.00	.00	1417.56	.12	.71	.07	1419.80
4800.	0.	4800.	0.	0.	1696.	0.	1259.	203.	1420.00
1.49	.00	2.83	.00	.000	.045	.000	.000	1409.70	9741.91
.000693	570.	512.	480.	2	0	0	.00	285.46	10027.37

*SECNO 22.794

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .50

22.794	7.32	1418.02	.00	.00	1418.42	.40	.78	.08	1417.80
4800.	0.	4739.	61.	0.	931.	29.	1278.	207.	1416.10
1.53	.41	5.09	2.10	.045	.045	.045	.000	1410.70	9981.78
.002808	460.	628.	500.	2	0	0	.00	210.68	10192.47

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 22.880
   22.880     6.64  1419.64      .00      .00  1420.18      .54     1.71      .04  1426.40
    4800.       0.    4800.       0.       0.     815.       0.    1287.     209.   1424.20
     1.55      .00     5.89      .00     .000     .045     .000     .000  1413.00  9953.68
  .005329     440.     454.     480.        2        0        0      .00   209.92 10163.60


*SECNO 22.990
   22.990     5.46  1423.36      .00      .00  1423.93      .57     3.74      .01  1425.40
    4800.       0.    4800.       0.       0.     794.       0.    1298.     212.   1427.90
     1.58      .00     6.05      .00     .000     .045     .000     .000  1417.90  9757.26
  .007942     480.     581.     530.        3        0        0      .00   268.36 10025.62


*SECNO 23.097

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   23.097     4.45  1429.55  1429.55      .00  1431.04     1.49     6.71      .28  1432.30
    4800.       8.    4792.       0.       5.     488.       0.    1306.     215.   1430.80
     1.59     1.71     9.82      .00     .045     .045     .000     .000  1425.10  9902.53
  .019629     640.     565.     490.       10       15        0      .00   178.52 10116.10


*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.10

   23.165     3.84  1432.74      .00      .00  1432.91      .16     1.73      .13  1429.50
    4800.     615.    3958.     227.     260.    1165.     115.    1315.     218.   1430.30
     1.62     2.37     3.40     1.98     .045     .045     .045     .000  1428.90  9617.30
  .002042     330.     375.     300.        5        0        0      .00   586.96 10204.26
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   23.253     9.17  1434.37  1434.37      .00  1437.19     2.83     1.71      .80  1437.50
    3300.       0.    3300.       0.       0.     245.       0.    1324.     222.   1444.20
     1.63      .00    13.49      .00     .000     .040     .000     .000  1425.20  9978.75
  .015250     470.     459.     450.       20       20        0      .00    44.18 10022.92


*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41

   23.334     7.69  1440.29      .00      .00  1441.70     1.41     4.36      .14  1443.80
    3300.       0.    3300.       0.       0.     347.       0.    1327.     222.   1449.80
     1.65      .00     9.52      .00     .000     .040     .000     .000  1432.60  9969.28
  .007618     400.     417.     420.        2        0        0      .00    66.49 10035.77


*SECNO 23.416
   23.416     7.22  1443.72      .00      .00  1445.45     1.74     3.66      .10  1447.80
    3300.       0.    3300.       0.       0.     312.       0.    1331.     223.   1450.20
     1.66      .00    10.58      .00     .000     .040     .000     .000  1436.50  9981.12
  .009428     400.     433.     430.        3        0        0      .00    58.77 10039.89


*SECNO 23.514
   23.514     8.38  1447.98      .00      .00  1449.31     1.32     3.81      .04  1451.40
    3300.       0.    3300.       0.       0.     358.       0.    1335.     223.   1451.10
     1.67      .00     9.23      .00     .000     .040     .000     .000  1439.60  9977.71
  .005919     560.     517.     470.        2        0        0      .00    57.14 10034.85


*SECNO 23.544
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   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS

   23.544     7.39  1448.79      .00      .00  1450.64     1.85     1.17      .16  1453.20
    3300.       0.    3300.       0.       0.     303.       0.    1336.     224.   1452.90
     1.68      .00    10.90      .00     .000     .040     .000     .000  1441.40  9979.07
  .009589     190.     158.     150.        2        0        0      .00    54.46 10033.53


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      2.48      3.20       .00      5.70      1.00     14.10       .00   1442.00   1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.00

PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape


 EGFRS      EGLWC      H3       QWEIR      QPR       BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                             AREA
   3558.17   1453.39     2.75     3149.      152.       14.       14.    1445.00   1449.00      140.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1480.00 ELREA=     1480.00

   23.555    10.59  1452.59      .00      .00  1453.29      .70     2.66      .00  1453.80
    3300.       0.    3300.       0.       0.     491.       0.    1336.     224.   1453.50
     1.68      .00     6.72      .00     .000     .040     .000     .000  1442.00  9974.66
  .002400      60.      60.      60.        2        0        8      .00    63.14 10037.80


*SECNO 23.591
3280 CROSS SECTION     23.59 EXTENDED      1.08 FEET


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1480.00 ELREA=     1480.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


  23.591     8.88  1453.03      .00      .00  1453.83      .75      .52      .02  1452.90
   3300.       0.    3300.       0.       0.     473.       0.    1338.     224.   1453.80
    1.69      .00     6.97      .00     .000     .040     .000     .000  1444.20  9968.00
 .003209     100.     190.     210.        3        0        0      .00    75.34 10043.34


*SECNO 23.691

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .70


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1480.00 ELREA=     1480.00

  23.691     8.64  1455.04      .00      .00  1456.34     1.30     2.34      .16  1457.60
   3300.       0.    3300.       0.       0.     361.       0.    1343.     225.   1455.30
    1.70      .00     9.15      .00     .000     .040     .000     .000  1446.40  9970.63
 .006558     510.     528.     540.        2        0        0      .00    64.87 10035.50


*SECNO 23.815

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.47


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1480.00 ELREA=     1480.00

  23.815     9.11  1458.81      .00      .00  1459.76      .95     3.39      .03  1458.90
   3950.       0.    3950.       0.       0.     505.       0.    1350.     226.   1457.80
    1.73      .00     7.83      .00     .000     .040     .000     .000  1449.70  9952.12
 .004320     650.     655.     680.        2        0        0      .00    84.88 10037.00


*SECNO 23.912

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1480.00 ELREA=     1480.00

  23.912    12.75  1460.65      .00      .00  1461.59      .95     1.83      .00  1461.30
   4600.       0.    4600.       0.       0.     589.       0.    1356.     227.   1460.90
    1.74      .00     7.81      .00     .000     .040     .000     .000  1447.90  9968.05
 .003075     480.     512.     510.        3        0        0      .00    74.23 10042.28
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   SECNO    DEPTH    CWSEL    CRIWS    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   IOC      ICONT    CORAR    TOPWID     ENDST


*SECNO 23.989
   23.989    12.29  1461.99      .00      .00  1462.54      .55      .90      .04  1465.60
    4600.       0.    4600.       0.       0.     774.       0.    1363.     228.   1465.80
     1.76      .00     5.94      .00     .000     .040     .000     .000  1449.70  9946.38
  .001678     400.     407.     410.        2        0        0      .00    96.26 10042.65


CCHV=     .300 CEHV=     .500
*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1463.70 ELREA=     1463.70

   24.086     9.18  1462.78      .00      .00  1463.53      .75      .90      .10  1453.60
    4600.       0.    4600.       0.       0.     661.       0.    1371.     229.   1453.60
     1.78      .00     6.96      .00     .000     .040     .000     .000  1453.60  9972.00
  .001825     450.     512.     560.        2        0        0      .00    72.00 10044.00



SPECIAL BRIDGE

SB  XK        XKOR      CDFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      3.00    100.00     71.60      3.00    590.00      .00   1453.60   1453.60

*SECNO 24.096
PRESSURE FLOW


 EGPRS     EGLWC      H3       QWEIR     QPR       BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                            AREA
   1464.25   1463.59      .06        0.    4600.      590.      590.    1462.20   1466.70        0.



3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1466.00 ELREA=     1466.00

   24.096    10.02  1463.62      .00      .00  1464.25      .63      .72      .00  1453.60
    4600.       0.    4600.       0.       0.     722.       0.    1372.     229.   1453.60
     1.79      .00     6.37      .00     .000     .040     .000     .000  1453.60  9972.00
  .001360      56.      56.      56.        2        0        0      .00    72.00 10044.00


*SECNO 24.106
   24.106     9.85  1464.05      .00      .00  1464.40      .35      .06      .08  1464.10
    4600.       0.    4326.     274.       0.     885.     126.    1373.     229.   1458.50
     1.79      .00     4.89     2.18     .000     .040     .050     .000  1454.20  9955.10
  .001093      80.      53.      20.        2        0        0      .00   155.51 10110.61
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   SECNO    DEPTH    CWSEL    CRIWS    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


CCHV=     .100 CEHV=     .300
*SECNO 24.195

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.57

   24.195    10.98  1464.58      .00      .00  1464.73      .15      .31      .02  1470.40
    4600.       0.    4600.       0.       0.    1494.       0.    1387.     231.   1466.40
     1.83      .00     3.08      .00     .000     .040     .000     .000  1453.60  9942.99
  .000443     470.     470.     460.        2        0        0      .00   187.94 10130.93


*SECNO 24.322

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.25

   24.322    13.21  1464.81      .00      .00  1464.85      .04      .11      .01  1463.50
    4600.       1.    3728.     870.       4.    2159.     899.    1421.     235.   1456.80
     1.95      .30     1.73      .97     .035     .040     .050     .000  1451.60  9864.43
  .000088     640.     671.     630.        2        0        0      .00   352.61 10217.04


*SECNO 24.444

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .29

   24.444     7.56  1464.86      .00      .00  1465.02      .16      .13      .04  1465.00
    4600.       0.    3713.     887.       0.    1113.     318.    1454.     239.   1461.70
     2.00      .00     3.34     2.79     .000     .045     .045     .000  1457.30  9928.21
  .001009     640.     644.     600.        2        0        0      .00   271.26 10199.47


*SECNO 24.542

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .27

   24.542     5.69  1465.49      .00      .00  1466.61     1.11     1.30      .29  1464.00
    4600.      10.    4590.       0.       3.     541.       0.    1466.     242.   1467.80
     2.02     3.09     8.48      .00     .045     .045     .000     .000  1459.80  9909.68
  .013956     470.     517.     530.        3        0        0      .00   171.48 10178.07
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   SECNO    DEPTH    CWSEL    CRIWS    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

*SECNO 24.635
   24.635     5.33  1472.13  1471.51      .00  1473.04      .91     6.41      .02  1474.50
    4600.       0.    4600.       0.       0.     600.       0.    1472.     244.   1472.40
     2.04      .00     7.67      .00     .000     .045     .000     .000  1466.80  9909.89
  .012232     650.     491.     220.       12       15        0      .00   196.58 10106.47


*SECNO 24.738

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.75

   24.738     4.46  1476.46      .00      .00  1476.74      .29     3.64      .06  1481.20
    4500.       0.    1240.    3260.       0.     284.     762.    1483.     248.   1480.90
     2.08      .00     4.36     4.28     .000     .045     .045     .000  1472.00  9939.08
  .003824     350.     544.     630.        3        0        0      .00   347.65 10339.29


*SECNO 24.838

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   24.838     5.52  1480.22  1480.22      .00  1480.76      .54     3.25      .08  1483.80
    4500.       0.    1160.    3340.       0.     136.     713.    1493.     253.   1483.50
     2.10      .00     8.54     4.68     .000     .045     .045     .000  1474.70  9969.07
  .015987     470.     528.     450.        4       15        0      .00   648.99 10633.33


*SECNO 24.943

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.76

   24.943     5.54  1483.24      .00      .00  1483.35      .11     2.55      .04  1481.80
    4500.     714.     462.    3325.     315.     126.    1291.    1510.     262.   1484.80
     2.16     2.27     3.66     2.58     .045     .045     .045     .000  1477.70  9802.57
  .002095     530.     554.     570.        7        0        0      .00   796.00 10618.05
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 25.048

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   25.048     3.45  1487.15  1487.15      .00  1487.79      .64     2.57      .16  1486.60
    4500.    1172.     579.    2749.     251.      79.     399.    1525.     271.   1493.60
     2.18     4.66     7.30     6.89     .045     .045     .045     .000  1483.70  9706.03
  .020079     580.     554.     520.       20       14        0      .00   553.54 10480.82


*SECNO 25.163

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.22

   25.163     5.95  1491.95      .00      .00  1492.24      .29     4.41      .04  1491.60
    4300.     159.    1046.    3094.      62.     207.     757.    1537.     277.   1493.10
     2.22     2.59     5.07     4.09     .045     .045     .045     .000  1486.00  9925.17
  .003736     640.     607.     580.        5        0        0      .00   363.56 10297.31


*SECNO 25.262

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1491.60 ELREA=      1510.00

   25.262     9.78  1493.78      .00      .00  1493.95      .17     1.70      .01  1491.60
    4300.    3607.     693.       0.    1084.     203.       0.    1551.     282.   1496.80
     2.26     3.33     3.42      .00     .045     .045     .000     .000  1484.00  9502.30
  .002924     470.     523.     570.        5        0        0      .00   520.65 10022.95


*SECNO 25.374
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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   SECNO    DEPTH    CWSEL    CRIWS    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


  25.374     6.00  1499.30  1499.30      .00  1499.51      .20     1.73      .01  1499.30
   4300.    3324.     976.       0.     962.     235.       0.    1570.     289.   1498.80
    2.31     3.46     4.16     1.80     .045     .045     .045     .000  1493.30  9656.10
 .002347     680.     591.     300.       20       23        0      .00   366.91 10023.00


*SECNO 25.434

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1504.90 ELREA=      1504.00

  25.434     7.77  1503.57  1503.57      .00  1506.21     2.64     1.54      .73  1504.90
   4300.       0.    4300.       0.       0.     330.       0.    1576.     291.   1504.00
    2.32      .00    13.03      .00     .000     .035     .000     .000  1495.80  9971.60
 .011093     400.     317.     190.       20       11        0      .00    63.46 10035.06


*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.06

  25.500     9.34  1507.04      .00      .00  1507.38      .33      .94      .23  1511.50
   4300.       0.    4300.       0.       0.     927.       0.    1581.     292.   1509.00
    2.34      .00     4.64      .00     .000     .035     .000     .000  1497.70  9926.42
 .001182     250.     349.     420.        2        0        0      .00   162.15 10088.57


CCHV=      .300 CEHV=      .500
*SECNO 25.523

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.92

  25.523    11.31  1507.31      .00      .00  1507.49      .18      .07      .05  1498.00
   4300.     403.    3116.     781.     208.     835.     302.    1584.     292.   1498.00
    2.35     1.94     3.73     2.59     .050     .035     .035     .000  1496.00  9931.38
 .000319     120.     121.     120.        2        0        0      .00   157.40 10088.79
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   25.534     4.79  1510.33  1510.33      .00  1512.71     2.38      .04     1.10  1515.00
    4300.       0.    4300.       0.       0.     347.       0.    1585.     292.   1515.00
     2.35      .00    12.39      .00     .000     .015     .000     .000  1505.54  9963.49
  .002272      58.      58.      58.       20       14        0      .00    73.01 10036.51


*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.49

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
   25.551     6.14  1511.68  1510.32      .00  1513.13     1.44      .13      .28  1515.00
    4300.       0.    4300.       0.       0.     446.       0.    1586.     292.   1515.00
     2.36      .00     9.64      .00     .000     .015     .000     .000  1505.54  9963.35
  .001026      90.      90.      90.       23        5        0      .00    73.30 10036.65


*SECNO 25.557
   25.557     5.98  1511.52      .00      .00  1513.36     1.84      .04      .20  1515.00
    4300.       0.    4300.       0.       0.     395.       0.    1587.     293.   1515.00
     2.36      .00    10.88      .00     .000     .015     .000     .000  1505.54  9960.97
  .001453      32.      32.      32.        2        0        0      .00    78.05 10039.03


*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS

   25.561     8.11  1513.71      .00      .00  1513.88      .17      .02      .50  1514.90
    2500.       0.    2500.       0.       0.     750.       0.    1587.     293.   1515.20
     2.36      .00     3.34      .00     .000     .035     .000     .000  1505.60  9950.95
  .000522      20.      21.      20.        3        0        0      .00   114.53 10065.48
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      ARGB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


CCHV=     .100 CEHV=     .300
*SECNO 25.680

3265 DIVIDED FLOW

  25.680     7.60  1514.10      .00      .00  1514.15      .04      .25      .01  1514.40
   2300.     178.    1208.     914.     176.     654.     598.    1603.     297.   1511.20
    2.46     1.01     1.85     1.53     .035     .035     .035     .000  1506.50  9657.12
 .000309     580.     628.     660.        2        0        0      .00   542.65 10304.15


*SECNO 25.736

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1518.90 ELREA=     1515.80

  25.786     5.45  1516.15  1516.15      .00  1516.80      .64      .43      .18  1518.90
   2200.       0.    1741.     459.       0.     245.     166.    1614.     303.   1515.80
    2.49      .00     7.09     2.76     .000     .035     .035     .000  1510.70  9982.28
 .005898     600.     560.     470.       20       14        0      .00   332.39 10442.63


*SECNO 25.947
  25.947     6.50  1520.90      .00      .00  1521.39      .49     4.58      .02  1522.70
   2000.       0.    1735.     265.       0.     296.      70.    1621.     307.   1520.60
    2.53      .00     5.86     3.76     .000     .035     .035     .000  1514.40  9959.68
 .004943     870.     850.     830.        3        0        0      .00   163.25 10122.93


*SECNO 26.058
  26.058     7.02  1523.22      .00      .00  1523.69      .47     2.29      .00  1522.00
   1900.     471.    1429.       0.     145.     237.       0.    1626.     309.   1524.00
    2.56     3.24     6.04      .00     .035     .035     .000     .000  1516.20  9849.16
 .003210     540.     586.     570.        2        0        0      .00   173.75 10022.91
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 26.152
   26.152     4.72  1524.72      .00      .00  1525.12      .39     1.42      .01  1525.40
    1700.       0.    1700.       0.       0.     338.       0.    1630.     311.   1526.00
     2.59      .00     5.02      .00     .000     .035     .000     .000  1520.00  9959.49
  .002897     240.     496.     550.        2        0        0      .00   103.13 10062.62


*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   26.265     5.77  1527.77  1527.77      .00  1528.98     1.21     2.89      .25  1531.70
    1600.       0.    1528.      72.       0.     170.      23.    1634.     312.   1526.50
     2.61      .00     9.01     3.15     .000     .035     .035     .000  1522.00  9974.92
  .010143     580.     597.     610.        6       11        0      .00    90.37 10065.29


*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.10

   26.372     7.19  1530.99      .00      .00  1531.30      .31     2.23      .09  1531.60
    1500.       0.    1500.       0.       0.     338.       0.    1637.     313.   1533.80
     2.64      .00     4.44      .00     .000     .035     .000     .000  1523.80  9968.86
  .002016     600.     565.     510.        4        0        0      .00    93.13 10061.99


*SECNO 26.492

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.95

   26.492     6.07  1531.77      .00      .00  1531.83      .06      .51      .02  1537.50
    1300.       0.    1300.       0.       0.     651.       0.    1644.     315.   1536.00
     2.73      .00     2.00      .00     .000     .035     .000     .000  1525.70  9887.00
  .000400     640.     634.     610.        4        0        0      .00   179.99 10066.99
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 26.582

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  6.61

   26.582     7.75  1531.85      .00      .00  1531.85      .00      .01      .01  1528.20
    1300.     589.     487.     223.    1825.     974.     711.    1667.     320.   1527.20
     3.07      .32      .50      .31     .040     .030     .040     .000  1524.10  9475.04
  .000009     460.     475.     480.        2        0        0      .00   712.55 10187.59


*SECNO 26.673

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1535.00 ELREA=      1533.20

   26.673     2.05  1533.85  1533.85      .00  1534.35      .49      .01      .15  1534.30
    1100.       0.     953.     147.       0.     159.      60.    1688.     325.   1533.20
     3.09      .00     5.98     2.47     .000     .030     .040     .000  1531.80  9958.95
  .009775     510.     480.     460.       20       14        0      .00   232.65 10278.05


*SECNO 26.784
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   26.784     3.35  1546.05  1546.05      .00  1547.02      .96     6.05      .14  1551.20
    1000.       0.    1000.       0.       0.     127.       0.    1690.     327.   1551.50
     3.11      .00     7.88      .00     .000     .030     .000     .000  1542.70  9981.06
  .011118     590.     586.     530.       20       14        0      .00    67.21 10048.26


*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 45.07
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   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


 26.883     7.02  1547.12      .00      .00  1547.12      .00      .01      .10  1544.70
   900.       1.     844.      55.       9.    2303.     277.    1706.     330.   1542.80
   3.52      .09      .37      .20     .040     .030     .040     .000  1540.10  9765.95
 .000004    530.     523.     500.        2        0        0      .00   432.50 10198.53


*SECNO 26.984

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .52

 26.984     6.62  1547.12      .00      .00  1547.13      .00      .00      .00  1545.50
   700.       1.     597.     102.       8.    1240.     369.    1731.     335.   1546.50
   3.84      .10      .48      .28     .040     .030     .040     .000  1540.50  9933.43
 .000010    480.     533.     460.        2        0        0      .00   361.91 10336.08


*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=      1562.60

 27.060     4.78  1558.88  1558.88      .00  1560.29     1.41      .02      .42  1560.80
   700.       0.     700.       0.       0.      74.       0.    1739.     337.   1562.60
   3.85      .00     9.51      .00     .000     .030     .000     .000  1554.10  9985.25
 .010497    270.     401.     470.       20       19        0      .00    26.81 10012.07


*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.78
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   SECNO    DEPTH    CWSEL    CRIWS    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   IOC      ICONT    CORAR    TOPWID     ENDST


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1565.00 ELREA=     1565.00

   27.166     6.26  1561.46      .00      .00  1561.62      .16     1.21      .12  1564.20
     500.       0.     500.       0.       0.     154.       0.    1741.     337.   1563.90
     3.90      .00     3.24      .00     .000     .030     .000     .000  1555.20  9982.48
  .000693     560.     560.     560.        4        0        0      .00    36.32 10018.80


*SECNO 27.294
   27.294     5.83  1561.83      .00      .00  1561.86      .04      .23      .01  1565.20
     300.       0.     300.       0.       0.     198.       0.    1744.     338.   1564.60
     4.03      .00     1.51      .00     .000     .030     .000     .000  1556.00  9973.35
  .000147     710.     676.     630.        3        0        0      .00    47.20 10020.55


CCHV=     .100 CEHV=     .300
*SECNO -19.560
START TRIB COMP
    -19.560    19.560  1327.416
  -19.560    11.82  1327.42      .00      .00  1329.14     1.72      .00      .00  1329.70
   12700.       0.   12700.       0.       0.    1206.       0.    1755.     339.   1330.60
     4.05      .00    10.53      .00     .000     .035     .000     .000  1315.60  9932.63
  .003257     730.     729.     720.        0        0        0      .00   127.02 10059.65


*SECNO  .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .029     9.17  1328.77  1328.77      .00  1331.77     2.99     1.10      .38  1329.50
    8300.       0.    8297.       3.       0.     598.       4.    1764.     340.   1328.20
     4.05      .00    13.89      .79     .000     .015     .035     .000  1319.60  9944.73
  .001840     380.     430.     450.       20       16        0      .00   113.24 10057.96


*SECNO  .112

3301 HV CHANGED MORE THAN HVINS
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   SECNO    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.44

     .112    10.63  1332.13      .00      .00  1332.62      .48      .60      .25  1332.10
    8300.       7.    8293.       0.      15.    1489.       0.    1776.     343.   1334.80
     4.08      .45     5.57      .00     .035     .030     .000     .000  1321.50  9813.37
  .000893     430.     483.     450.        3        0        0      .00   275.50 10088.87


*SECNO  .198
     .198     8.74  1332.54      .00      .00  1333.15      .60      .50      .04  1332.40
    8300.       0.    8300.       0.       0.    1331.       0.    1791.     345.   1337.80
     4.10      .27     6.23      .00     .035     .030     .000     .000  1323.80  9891.52
  .001367     460.     454.     420.        2        0        0      .00   215.96 10107.48


*SECNO  .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .288     7.11  1332.81  1332.81      .00  1335.18     2.37     1.30      .53  1336.00
    8300.       0.    8300.       0.       0.     672.       0.    1802.     347.   1335.90
     4.11      .00    12.35      .00     .000     .030     .000     .000  1325.70  9906.57
  .008082     470.     475.     460.        4       15        0      .00   144.46 10051.04


*SECNO  .398

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.81

     .398     7.91  1336.71      .00      .00  1337.70      .99     2.39      .14  1338.90
    8300.       0.    8300.       0.       0.    1038.       0.    1813.     349.   1340.60
     4.13      .00     7.99      .00     .000     .030     .000     .000  1328.80  9915.38
  .002478     600.     581.     540.        2        0        0      .00   176.46 10091.84


*SECNO  .482
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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   SECNO    DEPTH    CWSEL    CRIWS    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


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .482    10.82  1342.02  1342.02      .00  1343.13     1.11     1.03      .03  1341.10
    8300.      44.    6537.    1718.      26.     694.     697.    1824.     353.   1338.00
     4.14     1.74     9.43     2.46     .035     .030     .035     .000  1331.20  9903.89
  .002367     440.     444.     270.       20       12        0      .00   830.22 10734.11


*SECNO  .575
     .575    12.10  1343.60      .00      .00  1344.24      .64     1.06      .05  1340.20
    8300.     592.    7029.     679.     191.    1017.     352.    1841.     362.   1343.10
     4.17     3.10     6.91     1.93     .035     .030     .035     .000  1331.50  9777.85
  .001993     460.     491.     500.        3        0        0      .00   695.11 10472.96


*SECNO  .697
     .697    10.76  1344.76      .00      .00  1345.65      .88     1.34      .07  1346.40
    8200.       0.    7914.     286.       0.    1033.      94.    1861.     368.   1341.40
     4.19      .00     7.66     3.04     .000     .030     .035     .000  1334.00  9857.23
  .002165     640.     644.     640.        2        0        0      .00   228.48 10085.71


*SECNO  .826

3301 HV CHANGED MORE THAN HVINS

3695 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .826     8.99  1347.79  1347.79      .00  1349.94     2.15     2.58      .38  1345.50
    8200.     457.    7743.       0.      90.     642.       0.    1875.     372.   1349.50
     4.21     5.06    12.05      .00     .035     .035     .000     .000  1338.80  9858.07
  .008294     680.     681.     660.       20       15        0      .00   185.12 10043.19


*SECNO  .945

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.21

     .945    11.23  1351.63      .00      .00  1352.14      .51     2.03      .16  1348.60
    8200.     741.    7138.     321.     272.    1173.     154.    1892.     376.   1349.50
     4.24     2.72     6.08     2.09     .035     .035     .035     .000  1340.40  9708.02
  .001700     680.     628.     600.        3        0        0      .00   457.00 10165.03
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWR   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1.035
    1.035   10.61  1352.51      .00      .00  1353.20      .69     1.00      .05  1350.80
    8200.     766.    7173.     262.     220.    1026.      72.    1908.     381.   1348.80
     4.26     3.48     6.99     3.66     .035     .035     .035     .000  1341.90  9692.61
  .002748     440.     475.     460.        3        0        0      .00   416.85 10109.46


*SECNO 1.121
    1.121   10.17  1353.77      .00      .00  1354.46      .69     1.26      .00  1355.00
    8200.       0.    8200.       0.       0.    1233.       0.    1921.     384.   1353.60
     4.28      .00     6.65      .38     .000     .040     .040     .000  1343.60  9873.41
  .002792     480.     454.     440.        2        0        0      .00   199.99 10073.40


*SECNO 1.204

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.204   10.61  1354.91  1354.91      .00  1356.97     2.06     1.94      .41  1355.60
    8200.       0.    7628.     572.       0.     642.     149.    1931.     386.   1352.50
     4.29      .00    11.88     3.83     .000     .040     .040     .000  1344.30  9950.41
  .008069     430.     438.     450.        3        8        0      .00   219.47 10169.88


*SECNO 1.315

7285 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.34

    1.315   10.02  1358.82      .00      .00  1359.17      .36     2.03      .17  1359.70
    7900.       0.    6162.    1738.       0.    1214.     486.    1952.     391.   1359.00
     4.33      .00     5.08     3.58     .000     .040     .040     .000  1348.80  9905.51
  .001366     720.     734.     700.        3        0        0      .00   326.17 10234.09
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SECNO	DEPTH	CWSEL	CRIWS	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	IOC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.420
WATER EL=X5 CARD= 1360.700

3265 DIVIDED FLOW

1.420	6.70	1360.70	.00	.00	1361.21	.51	.52	.05	1358.00
5900.	3057.	1983.	860.	674.	248.	367.	1966.	397.	1358.00
4.35	4.54	8.00	2.34	.020	.020	.020	.000	1354.00	9592.51
.001181	380.	407.	420.	0	0	0	.00	903.99	10783.50

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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY  BURGESS & NIPLE
T3      CAVE CREEK WASH        100 YEAR       J. MISCHLER

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4.                         0.0005                              1220.40

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15.                -1.
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   SECNO    DEPTH    CWSEL    CRIWS    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


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 15.015
   15.015    14.71  1220.40      .00  1220.40  1222.59     2.19      .00      .00  1228.30
   18500.       0.   18500.       0.       0.    1557.       0.       0.       0.   1206.79
      .00      .00    11.88      .23     .000     .015     .015     .000  1205.69  9945.04
  .000491       0.       0.       0.        0        0        0      .00   110.03 10055.07


*SECNO 15.109
   15.109    14.70  1220.64      .00      .00  1222.84     2.19      .25      .00  1228.55
   18500.       0.   18500.       0.       0.    1556.       0.      18.       1.   1207.04
      .01      .00    11.89      .23     .000     .015     .015     .000  1205.94  9945.04
  .000491     500.     500.     500.        0        0        0      .00   110.03 10055.07


*SECNO 15.204
   15.204    14.70  1220.89      .00      .00  1223.09     2.20      .25      .00  1228.80
   18500.       0.   18500.       0.       0.    1556.       0.      36.       3.   1207.29
      .02      .00    11.89      .23     .000     .015     .015     .000  1206.19  9945.04
  .000492     500.     500.     500.        0        0        0      .00   110.03 10055.07


*SECNO 15.310

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.310    13.94  1220.82  1220.82      .00  1227.61     6.79      .51     1.38  1229.50
   18500.       0.   18500.       0.       0.     884.       0.      51.       4.   1230.00
      .03      .00    20.92      .00     .000     .015     .000     .000  1206.88  9967.54
  .002165     560.     560.     560.       20        8        0      .00    65.02 10032.56


*SECNO 15.454

3301 HV CHANGED MORE THAN HVINS

   15.454    17.46  1224.72      .00      .00  1229.01     4.29     1.15      .25  1229.88
   18500.       0.   18500.       0.       0.    1113.       0.      69.       5.   1230.38
      .04      .00    16.62      .00     .000     .015     .000     .000  1207.26  9967.52
  .001109     760.     760.     760.        4        0        0      .00    65.05 10032.57
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 15.530
3280 CROSS SECTION     15.53 EXTENDED       .28 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.530    11.58  1237.78  1237.78      .00  1242.39     4.62      .54      .10  1237.50
   18500.       0.   18500.       0.       0.    1073.       0.      79.       6.   1238.45
      .06      .00    17.24      .00     .000     .015     .000     .000  1226.20  9941.50
  .001686     400.     400.     400.       20       14        0      .00   117.65 10059.15


*SECNO 15.680
3280 CROSS SECTION     15.68 EXTENDED       .28 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.680    11.58  1241.13  1241.13      .00  1245.74     4.61     1.33      .00  1240.85
   18500.       0.   18500.       0.       0.    1074.       0.      98.       8.   1241.80
      .06      .00    17.23      .00     .000     .015     .000     .000  1229.55  9941.50
  .001683     792.     792.     792.       20        5        0      .00   117.67 10059.17


*SECNO 15.878
3280 CROSS SECTION     15.88 EXTENDED       .13 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.878    10.96  1244.83  1244.83      .00  1249.30     4.47     1.77      .01  1244.70
   18500.       0.   18500.       0.       0.    1091.       0.     124.      11.   1244.71
      .08      .00    16.96      .00     .000     .015     .000     .000  1233.87  9938.00
  .001702    1045.    1045.    1045.       20       11        0      .00   124.00 10062.00


*SECNO 15.920
3280 CROSS SECTION     15.92 EXTENDED       .15 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.920    10.97  1245.81  1245.81      .00  1250.27     4.46      .38      .00  1245.67
   18500.       0.   18500.       0.       0.    1092.       0.     130.      11.   1245.68
      .08      .00    16.94      .00     .000     .015     .000     .000  1234.84  9938.00
  .001694     225.     225.     225.       20        5        0      .00   124.00 10062.00
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SECNO    DEPTH    CWSEL    CRIWS    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


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1244.13 , NOT    1245.81 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
     .90     1.56     3.00   100.00    82.32     6.00  1447.00     1.84  1235.45  1235.07

*SECNO 15.940
3280 CROSS SECTION     15.94 EXTENDED     2.95 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.54

CLASS B LOW FLOW

3420 BRIDGE W.S.=    1246.38 BRIDGE VELOCITY=     17.19     CALCULATED CHANNEL AREA=     1054.

 EGPRS     EGLWC      H3      QWEIR     QLOW     BAREA   TRAPEZOID     ELLC     ELTRD    WEIRLN
                                                           AREA
  1249.77  1251.56     .00       0.    18500.    1447.    1448.    1249.60  1253.60       0.


  15.940   13.78  1249.00     .00      .00  1251.56     2.56     1.29     .00  1246.05
  18500.      0.   18500.      0.       0.    1440.       0.     133.     12.   1246.06
     .09     .00    12.85     .00     .000     .015     .000     .000  1235.22  9938.00
 .000714    100.     100.    100.        0        0        0      .00   124.00 10062.00


*SECNO 16.023

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  16.023   13.63  1251.08  1251.08     .00  1256.09     5.01      .46     .73  1252.50
  18500.      0.   18500.      0.       0.    1030.       0.     145.     13.   1251.95
     .09     .00    17.96     .00     .000     .015     .000     .000  1237.45  9947.57
 .001680    441.     441.    441.      20        5        0      .00   104.77 10052.34
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 16.148
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.148    13.67  1253.91  1253.91      .00  1258.88     4.97     1.10      .00  1255.29
   18500.       0.   18500.       0.       0.    1034.       0.     161.      14.   1254.74
      .10      .00    17.90      .00     .000     .015     .000     .000  1240.24  9947.50
  .001663     660.     660.     660.       20        5        0      .00   104.87 10052.36


*SECNO 16.264
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.264    13.66  1256.49  1256.49      .00  1261.47     4.98     1.02      .00  1257.88
   18500.       0.   18500.       0.       0.    1033.       0.     176.      16.   1257.33
      .11      .00    17.91      .00     .000     .015     .000     .000  1242.83  9947.51
  .001666     612.     612.     612.       20        5        0      .00   104.85 10052.36


*SECNO 16.373
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.373    13.66  1258.92  1258.92      .00  1263.90     4.98      .96      .00  1260.31
   18500.       0.   18500.       0.       0.    1033.       0.     189.      17.   1259.76
      .12      .00    17.91      .00     .000     .015     .000     .000  1245.26  9947.51
  .001666     576.     576.     576.       20        5        0      .00   104.85 10052.36


*SECNO 16.481
3280 CROSS SECTION     16.48 EXTENDED       .55 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.481    12.66  1260.25  1260.25      .00  1265.12     4.87      .96      .01  1261.20
   18000.       0.   18000.       0.       0.    1016.       0.     203.      19.   1259.70
      .13      .00    17.71      .00     .000     .015     .000     .000  1247.59  9945.73
  .001694     570.     570.     570.        3       11        0      .00   106.27 10052.00


*SECNO 16.601
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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   SECNO    DEPTH    CWSEL    CRIWS    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


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.601    12.79  1263.05  1263.05      .00  1267.79     4.73     1.05      .01  1263.87
   18000.       0.   17990.      10.       0.    1030.       5.     218.      20.  1262.37
      .14      .00    17.46     1.94     .000     .015     .015     .000  1250.26  9945.63
  .001611     634.     634.     634.       20        5        0      .00   121.32 10066.96


*SECNO 16.694
3280 CROSS SECTION     16.69 EXTENDED       .27 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.694    11.91  1264.17  1264.17      .00  1268.90     4.73      .81      .00  1263.90
   18000.       0.   18000.       0.       0.    1031.       0.     229.      22.  1264.42
      .15      .00    17.46      .00     .000     .015     .000     .000  1252.26  9945.00
  .001696     491.     491.     491.        3       11        0      .00   110.80 10055.80


*SECNO 16.823
3280 CROSS SECTION     16.82 EXTENDED       .29 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.823    11.93  1267.07  1267.07      .00  1271.78     4.71     1.15      .00  1266.78
   18000.       0.   18000.       0.       0.    1033.       0.     245.      23.  1267.30
      .16      .00    17.42      .00     .000     .015     .000     .000  1255.14  9945.00
  .001685     681.     681.     681.       20        5        0      .00   110.82 10055.82


*SECNO 16.902
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   16.902    11.96  1268.15  1268.15      .00  1272.65     4.50      .70      .02  1268.80
   18000.       0.   18000.       0.       0.    1057.       0.     255.      24.  1270.33
      .17      .00    17.03      .00     .000     .015     .000     .000  1256.19  9941.31
  .001689     417.     417.     417.        2        5        0      .00   118.40 10059.71


*SECNO 16.970
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	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	IOC	ICONT	CORAR	TOPWID	ENDST
16.970	12.57	1268.93	1268.93	.00	1273.36	4.43	.61	.01	1269.30
18000.	0.	18000.	0.	0.	1065.	0.	264.	25.	1270.78
.17	.00	16.90	.00	.000	.015	.000	.000	1256.36	9939.04
.001717	359.	359.	359.	2	8	0	.00	121.95	10060.99

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1267.27 , NOT 1268.93 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	82.57	6.00	1513.00	1.61	1258.71	1258.33

*SECNO 16.988
3280 CROSS SECTION 16.99 EXTENDED 2.33 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1269.55 BRIDGE VELOCITY= 17.29 CALCULATED CHANNEL AREA= 1020.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1272.36	1274.54	.00	0.	18000.	1513.	1516.	1273.75	1277.80	0.

16.988	15.62	1272.03	.00	.00	1274.54	2.51	1.18	.00	1269.70
18000.	0.	18000.	0.	0.	1416.	0.	267.	26.	1270.17
.17	.00	12.71	.00	.000	.015	.000	.000	1256.41	9938.30
.000723	90.	90.	90.	0	0	0	.00	125.60	10063.90

*SECNO 17.061
3280 CROSS SECTION 17.06 EXTENDED .42 FEET

3301 HV CHANGED MORE THAN HVINS

17.061	15.10	1271.71	.00	.00	1275.17	3.46	.35	.28	1271.30
18000.	0.	18000.	0.	0.	1206.	0.	278.	27.	1271.79
.18	.00	14.93	.00	.000	.015	.000	.000	1256.61	9938.30
.001203	380.	380.	380.	3	0	0	.00	126.24	10064.54

```
   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 17.206

3301 HV CHANGED MORE THAN HVINS

   17.206     6.99  1273.99      .00      .00  1276.23     2.24      .93      .12  1279.00
   18000.       0.   18000.       0.       0.    1498.       0.     302.      30.   1279.00
      .20      .00    12.02      .00     .000     .015     .000     .000  1267.00  9885.46
  .001226     769.     769.     769.        5        0        0      .00   229.08 10114.54


*SECNO 17.360
 WATER EL=X5 CARD=   1276.300

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  9.09

   17.360    19.60  1276.30      .00      .00  1276.32      .02      .04      .22  1282.20
   18000.       0.   18000.       0.       0.   14414.       0.     450.      40.   1281.80
      .38      .00     1.25      .00     .000     .030     .000     .000  1256.70  9518.31
  .000015     820.     813.     830.        0        0        0      .00   858.15 10376.46


*SECNO 17.494

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   17.494    10.74  1281.04  1281.04      .00  1283.09     2.05      .03      .61  1279.10
   15400.     110.   12282.    3008.      31.     994.     422.     579.      50.   1278.50
      .40     3.57    12.35     7.13     .030     .030     .030     .000  1270.30  9872.16
  .005396     750.     707.     670.       20       11        0      .00   400.58 10272.74


*SECNO 17.588

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.69

   17.588    14.11  1283.71      .00      .00  1284.05      .33      .79      .17  1278.10
   15400.    3418.   11662.     320.    1022.    2343.     135.     607.      55.   1276.40
      .43     3.34     4.98     2.37     .040     .040     .040     .000  1269.60  9777.81
  .000744     440.     496.     560.        2        0        0      .00   452.02 10229.83
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


*SECNO 17.662

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .50

   17.662    12.25  1283.85      .00      .00  1284.73      .88      .52      .16  1276.40
   15400.    3993.   11359.      48.     608.    1446.      22.     632.      58.   1281.60
      .44     6.57     7.86     2.19     .040     .040     .040     .000  1271.60  9829.34
  .003005     380.     391.     400.        3        0        0      .00   320.00 10149.34


*SECNO 17.783

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .66

   17.783    10.18  1285.58      .00      .00  1287.86     2.28     2.72      .42  1280.50
   15400.     297.   14381.     722.      52.    1158.     107.     656.      62.   1281.10
      .46     5.65    12.42     6.77     .040     .040     .040     .000  1275.40  9900.35
  .006937     540.     639.     500.        3        0        0      .00   201.38 10101.73


*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

   17.932    13.08  1290.98  1290.58      .00  1294.60     3.62     6.33      .40  1289.70
   15400.      60.   15315.      25.      22.    1000.      10.     677.      65.   1290.20
      .47     2.68    15.31     2.46     .040     .040     .040     .000  1277.90  9921.09
  .009455     790.     787.     780.        5       11        0      .00   164.22 10085.31


CCHV=     .300 CEHV=     .500
*SECNO 18.042

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.53

   18.042    12.01  1294.31      .00      .00  1298.14     3.83     3.43      .10  1307.40
   15400.       0.   15400.       0.       0.     981.      0.     690.      67.   1307.40
      .48      .00    15.70      .00     .000     .025     .000     .000  1282.30  9951.61
  .004040     620.     581.     550.        4        0        0      .00    96.76 10048.37
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	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

SPECIAL BRIDGE

SB	XK	XKOR	CDFQ	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	.00	75.00	4.00	1059.00	.81	1280.20	1279.90

*SECNO 18.061

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1299.43	1299.04	1.15	0.	15400.	1059.	1060.	1293.20	1301.60	0.

18.061	13.34	1296.44	.00	.00	1299.43	2.99	1.29	.00	1308.20
15400.	0.	15400.	0.	0.	1110.	0.	693.	67.	1308.20
.48	.00	13.88	.00	.000	.025	.000	.000	1283.10	9951.54
.002757	101.	101.	101.	4	0	0	.00	96.89	10048.43

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.03

18.081	18.44	1299.54	.00	.00	1300.24	.71	.13	.69	1286.60
15400.	1236.	12529.	1636.	322.	1738.	383.	697.	68.	1284.90
.49	3.84	7.21	4.27	.035	.035	.035	.000	1281.10	9876.94
.000672	60.	106.	130.	3	0	0	.00	229.58	10106.51

CCHV= .100 CEHV= .300
*SECNO 18.174

18.174	18.52	1300.22	.00	.00	1300.52	.30	.24	.04	1288.70
15400.	1570.	11409.	2421.	475.	2330.	1163.	733.	72.	1294.60
.52	3.30	4.90	2.08	.035	.035	.035	.000	1281.70	9856.87
.000364	500.	491.	490.	2	0	0	.00	597.84	10454.71

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   SECNO    DEPTH    CWSEL    CRIWS    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      ICCNT    CORAR    TOPWID     ENDST


*SECNO 18.269

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .64

   18.269    16.37  1300.17      .00      .00  1300.93      .76      .27      .14  1288.40
   15400.    2262.   12456.     682.     445.    1677.     199.     769.      77.   1292.40
      .54     5.08     7.43     3.43     .035     .035     .035     .000  1283.80  9881.86
  .000901     500.     502.     500.        2        0        0      .00   228.73 10110.59


*SECNO 18.362
   18.362    15.24  1300.54      .00      .00  1301.51      .97      .51      .06  1290.00
   15400.    1154.   13225.    1021.     240.    1585.     239.     794.      80.   1290.60
      .56     4.80     8.34     4.26     .035     .035     .035     .000  1285.30  9895.20
  .001223     490.     491.     510.        2        0        0      .00   212.97 10108.18


*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   18.445    18.09  1305.39  1305.39      .00  1307.48     2.09      .94      .34  1290.00
   15400.    5166.    3758.    6476.     570.     218.     716.     813.      83.   1290.00
      .57     9.06    17.27     9.05     .035     .035     .035     .000  1287.30  9885.22
  .004315     470.     440.     460.       20       11        0      .00   386.47 10271.68


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      2.34      3.00       .00      6.11      1.00     33.20       .00   1287.70   1287.40

*SECNO 18.456

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.46
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SECNO	DEPTH	CWSEL	CRIWS	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

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9123.38	1308.44	.96	15108.	298.	33.	33.	1294.20	1299.50	458.

18.456	19.61	1307.31	.00	.00	1308.31	1.00	.83	.00	1290.40
15400.	5168.	2971.	7261.	741.	238.	1182.	815.	83.	1290.40
.57	6.97	12.51	6.14	.035	.035	.035	.000	1287.70	9873.21
.002014	60.	60.	60.	3	0	8	.00	443.73	10316.94

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.09

18.545	18.98	1308.28	.00	.00	1308.76	.47	.39	.05	1294.10
15400.	1745.	11300.	2355.	495.	1857.	682.	843.	87.	1293.80
.59	3.53	6.08	3.45	.035	.035	.035	.000	1289.30	9881.31
.000460	440.	466.	480.	2	0	0	.00	288.68	10169.98

*SECNO 18.575

18.575	19.13	1308.43	.00	.00	1308.83	.41	.07	.01	1291.50
15400.	3584.	3192.	8664.	833.	511.	1732.	854.	88.	1289.70
.60	4.30	6.17	5.00	.035	.035	.035	.000	1289.30	9880.61
.000442	160.	160.	160.	2	0	0	.00	290.32	10170.93

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

SECNO	DEPTH	CWSEL	CRIWS	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

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3108.06	1308.92	.09	14974.	431.	57.	56.	1295.40	1299.00	288.

18.533	20.10	1309.50	.00	.00	1309.84	.34	1.00	.00	1291.60
15400.	3685.	3046.	8668.	924.	538.	1901.	857.	89.	1289.80
.60	3.99	5.66	4.56	.035	.035	.035	.000	1289.40	9875.91
.000347	40.	40.	40.	2	0	7	.00	301.44	10177.35

*SECNO 18.640

18.640	19.23	1309.43	.00	.00	1310.07	.64	.14	.09	1294.60
15400.	2346.	9851.	3204.	512.	1351.	711.	878.	91.	1293.40
.62	4.58	7.29	4.51	.035	.035	.035	.000	1290.20	9879.37
.000663	300.	301.	310.	2	0	0	.00	255.52	10134.89

*SECNO 18.734

18.734	17.28	1309.68	.00	.00	1310.53	.84	.40	.06	1298.60
15400.	1314.	13487.	599.	304.	1748.	175.	905.	93.	1300.80
.64	4.33	7.72	3.43	.035	.035	.035	.000	1292.40	9883.01
.000985	490.	496.	500.	0	0	0	.00	228.83	10111.84

*SECNO 18.832

18.832	16.99	1310.19	.00	.00	1311.04	.85	.51	.00	1302.80
15400.	436.	12952.	2011.	138.	1658.	398.	931.	96.	1297.10
.66	3.17	7.81	5.06	.035	.035	.035	.000	1293.20	9891.67
.001003	480.	517.	540.	2	0	0	.00	216.17	10107.84

*SECNO 18.925

18.925	16.04	1310.64	.00	.00	1311.60	.97	.53	.03	1297.60
15400.	1712.	12782.	906.	348.	1524.	210.	956.	98.	1300.00
.67	4.92	8.39	4.31	.035	.035	.035	.000	1294.60	9887.57
.001144	480.	491.	500.	2	0	0	.00	200.07	10087.64

*SECNO 19.018

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


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .63

   19.018    13.29  1310.89      .00      .00  1312.69     1.80      .84      .25  1305.10
   15400.     490.   14883.      27.     107.    1363.      11.     976.     100.   1308.40
      .69     4.58    10.92     2.56     .035     .035     .035     .000  1297.60  9866.12
  .002864     460.     491.     520.        2        0        0      .00   172.44 10038.56


*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   19.117    13.89  1312.49  1312.49      .00  1316.85     4.37     2.18      .77  1302.90
   15400.    1414.   11918.    2068.     149.     652.     198.     990.     102.   1301.50
      .70     9.52    18.27    10.43     .035     .035     .035     .000  1298.60  9942.00
  .006608     490.     523.     560.       20        8        0      .00   120.09 10062.09


*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.61

   19.210    16.99  1317.19      .00      .00  1319.01     1.82     1.90      .25  1312.00
   15400.     227.   14955.     218.      57.    1364.      55.    1004.     104.   1312.00
      .71     3.97    10.96     3.96     .035     .035     .035     .000  1300.20  9922.94
  .002538     500.     491.     490.        3        0        0      .00   158.26 10081.20


CCHV=     .300 CEHV=     .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS
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   SECNO    DEPTH    CWSEL    CRIWS    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


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1324.00 ELREA=     1324.00

   19.283     8.22  1319.92  1319.92      .00  1324.04     4.12     1.64     1.15  1311.70
   14600.      0.   14600.      0.       0.     896.       0.    1015.     105.   1311.70
      .72     .00    16.29     .00     .000     .035     .000     .000  1311.70  9948.00
  .008876    390.     386.    390.       20       11        0      .00   109.00 10057.00



SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1318.71 , NOT    1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK       XKOR     CDFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
     .90     1.56     3.00      .00    109.00     4.50  1304.00      .00   1311.70  1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.=    1320.16 BRIDGE VELOCITY=     16.51     CALCULATED CHANNEL AREA=      884.

 EGPRS     EGLWC      H3      QWEIR     QLOW     BAREA   TRAPEZOID     ELLC     ELTRD    WEIRLN
                                                           AREA
  1322.96  1324.65     .00       0.    14600.    1304.    1306.     1324.20  1326.50       0.



3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1325.00 ELREA=     1325.00

   19.299    10.36  1322.06     .00      .00  1324.65     2.60      .61      .00  1311.70
   14600.      0.   14600.      0.       0.    1129.       0.    1017.     105.   1311.70
      .72     .00    12.94     .00     .000     .035     .000     .000  1311.70  9948.00
  .004112     86.      86.     86.        0        0        0      .00   109.00 10057.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 19.313

3301 HV CHANGED MORE THAN HVINS

   19.313    11.61  1323.31      .00      .00  1325.17     1.87      .30      .22  1327.90
   14600.       0.   14600.       0.       0.    1331.       0.    1019.     105.   1325.50
      .72      .00    10.97      .00     .000     .035     .000     .000  1311.70  9944.34
  .004073     75.      74.     75.        4        0        0      .00   159.66 10104.00


CCHV=     .100 CEHV=     .300
*SECNO 19.418
   19.418    12.59  1325.59      .00      .00  1327.43     1.83     2.25      .00  1328.00
   14600.       0.   14600.       0.       0.    1343.       0.    1036.     107.   1326.10
      .73      .00    10.87      .00     .000     .035     .000     .000  1313.00  9955.11
  .004041    570.     554.    530.        2        0        0      .00   162.69 10117.80


*SECNO 19.560
   19.560    12.61  1328.21      .00      .00  1330.15     1.94     2.69      .03  1329.70
   14600.       0.   14600.       0.       0.    1307.       0.    1058.     110.   1330.60
      .75      .00    11.17      .00     .000     .035     .000     .000  1315.60  9931.38
  .003389    730.     729.    720.        2        0        0      .00   129.60 10060.98


CCHV=     .300 CEHV=     .500
*SECNO 19.625

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.55


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1332.00 ELREA=     1332.00

   19.625    12.29  1329.89      .00      .00  1330.82      .93      .37      .30  1317.60
    5700.       0.    5700.       0.       0.     738.       0.    1067.     111.   1317.60
      .76      .00     7.73      .00     .000     .015     .000     .000  1317.60  9965.00
  .000214    580.     364.     70.        2        0        0      .00    60.00 10025.00
```

SECNO	DEPTH	CWSEL	CRIWS	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

SPECIAL BRIDGE

SB	XX	XKOR	COFQ	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	60.00	2.00	564.00	.00	1318.60	1317.60

*SECNO 19.691
PRESSURE FLOW

EGPRS	EGLWC	M3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1332.37	1331.05	.08	0.	5700.	564.	563.	1328.30	1334.80	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1333.00 ELREA= 1333.00

19.691	12.93	1331.53	.00	.00	1332.37	.84	1.55	.00	1318.60
5700.	0.	5700.	0.	0.	776.	0.	1073.	111.	1318.60
.78	.00	7.35	.00	.000	.015	.000	.000	1318.60	9965.00
.000181	330.	350.	430.	2	0	0	.00	60.00	10025.00

*SECNO 19.742

19.742	12.89	1331.99	.00	.00	1332.51	.52	.05	.10	1331.60
5700.	1.	5699.	0.	3.	986.	1.	1078.	112.	1331.00
.79	.23	5.78	.30	.035	.015	.035	.000	1319.10	9935.22
.000165	80.	269.	470.	2	0	0	.00	108.35	10043.57

CCHV= .100 CEHV= .300
*SECNO 19.847

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .36

19.847	13.34	1332.14	.00	.00	1332.73	.59	.20	.02	1336.30
5700.	0.	5700.	0.	0.	925.	0.	1090.	113.	1335.80
.82	.00	6.16	.00	.000	.035	.000	.000	1318.80	9940.63
.001296	570.	554.	520.	2	0	0	.00	109.85	10050.49

*SECNO 19.960

```
   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .39

   19.960     7.77  1332.37  1332.22      .00  1334.93     2.55     1.61      .59  1330.00
    5700.      39.    5629.      32.       9.     437.       7.    1100.     114.   1330.00
      .83     4.31    12.89     4.25     .035     .035     .035     .000  1324.60  9950.40
  .008699     640.     597.     560.       4       11        0      .00    86.88 10037.28


CCHV=     .300 CEHV=     .500
*SECNO 19.974

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.51


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1336.00 ELREA=     1336.00

   19.974     9.51  1333.31      .00      .00  1335.46     2.14      .41      .12  1323.80
    5700.       0.    5700.       0.       0.     485.       0.    1101.     114.   1323.80
      .83      .00    11.75      .00     .000     .035     .000     .000  1323.80  9969.00
  .003800     105.      74.      65.       3        0        0      .00    51.00 10020.00



SPECIAL BRIDGE

SB  XK        KKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00       .00     51.00      3.00    480.00      .00   1324.10   1323.80

*SECNO 19.986

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW


 EGPRS     EGLWC      H3       QWEIR     QPR       BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                            AREA
   1336.73   1336.01      .92        0.     5700.      480.      480.     1334.10   1337.90        0.
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   SECNO    DEPTH    CWSEL    CRIWS    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


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1337.00 ELREA=     1337.00

   19.986    11.45  1335.25      .00      .00  1336.73     1.48     1.27      .00  1323.80
    5700.       0.    5700.       0.       0.     584.       0.    1101.     115.   1323.80
      .83      .00     9.76      .00     .000     .035     .000     .000  1323.80  9969.00
  .002047      61.      61.      61.        3        0        0      .00    51.00 10020.00


*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1340.00 ELREA=     1339.40

   20.049    11.25  1338.35  1338.35      .00  1341.90     3.54     1.32     1.03  1343.40
    5700.       0.    5700.       0.       0.     377.       0.    1105.     115.   1339.40
      .84      .00    15.11      .00     .000     .035     .000     .000  1327.10  9971.56
  .010738     305.     333.     345.       20        8        0      .00    53.63 10025.19


CCHV=     .100 CEHV=     .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.69


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1344.00 ELREA=     1340.80

   20.144    12.58  1343.48      .00      .00  1345.07     1.58     2.97      .20  1344.60
    5700.       0.    5589.     111.       0.     549.      33.    1111.     116.   1340.80
      .85      .00    10.19     3.41     .000     .035     .040     .000  1330.90  9960.58
  .003744     490.     502.     500.        2        0        0      .00    83.94 10044.51
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 20.242

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1348.00 ELREA=     1342.80

   20.242    12.19  1345.49      .00      .00  1347.06     1.57     1.99      .00  1347.20
    5700.       0.    5546.     154.       0.     545.      40.    1118.     117.   1342.80
      .87      .00    10.18     3.83     .000     .035     .040     .000  1333.30  9961.30
  .003942     470.     517.     560.        3        0        0      .00    88.68 10049.98


*SECNO 20.335
   20.335    10.14  1347.44      .00      .00  1348.61     1.17     1.51      .04  1344.00
    5700.      32.    5639.      29.      13.     646.      12.    1125.     118.   1344.00
      .88     2.48     8.72     2.46     .040     .035     .040     .000  1337.30  9950.57
  .002469     510.     491.     470.        2        0        0      .00    88.31 10038.88


CONV=     .300 CEHV=     .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1351.50 ELREA=     1351.50

   20.347    10.04  1347.24      .00      .00  1349.16     1.92      .18      .38  1337.20
    5700.       0.    5700.       0.       0.     512.       0.    1126.     118.   1337.20
      .88      .00    11.13      .00     .000     .035     .000     .000  1337.20  9970.00
  .003174       1.      63.     150.        2        0        0      .00    51.00 10021.00


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00    100.00     51.00      3.00    576.00      .00   1337.70   1337.20

*SECNO 20.366
CLASS A LOW FLOW

3420 BRIDGE W.S.=    1347.00 BRIDGE VELOCITY=      12.43     CALCULATED CHANNEL AREA=      446.
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SECNO	DEPTH	CWSEL	CRIWS	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

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1349.64	.73	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.77	1347.97	.00	.00	1349.64	1.67	.48	.00	1337.20
5700.	0.	5700.	0.	0.	549.	0.	1127.	118.	1337.20
.89	.00	10.38	.00	.000	.035	.000	.000	1337.20	9970.00
.002515	100.	100.	100.	0	0	0	.00	51.00	10021.00

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

20.423	11.57	1349.57	.00	.00	1350.51	.94	.65	.22	1345.00
5700.	102.	5266.	332.	37.	656.	87.	1131.	119.	1344.30
.90	2.73	8.03	3.82	.040	.035	.040	.000	1338.00	9958.69
.001888	415.	301.	205.	3	0	0	.00	112.82	10071.51

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.83	1349.13	.00	.00	1351.13	2.01	.09	.53	1339.30
5700.	0.	5700.	0.	0.	501.	0.	1132.	119.	1339.30
.90	.00	11.37	.00	.000	.035	.000	.000	1339.30	9985.00
.003403	1.	37.	65.	2	0	0	.00	51.00	10036.00

SECNO	DEPTH	CWSEL	CRIWS	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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.59 BRIDGE VELOCITY= 12.79 CALCULATED CHANNEL AREA= 446.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.50	1351.64	.80	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	10.62	1349.92	.00	.00	1351.64	1.72	.51	.00	1339.30
5700.	0.	5700.	0.	0.	542.	0.	1133.	119.	1339.30
.90	.00	10.52	.00	.000	.035	.000	.000	1339.30	9985.00
.002628	70.	70.	70.	0	0	0	.00	51.00	10036.00

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

20.529	9.25	1352.25	.00	.00	1352.95	.70	1.00	.31	1350.20
5700.	166.	5398.	136.	70.	784.	62.	1140.	120.	1350.40
.92	2.36	6.88	2.22	.040	.035	.040	.000	1343.00	9905.35
.001924	545.	449.	375.	3	0	0	.00	189.83	10095.18

CCHV= .100 CEHV= .300
*SECNO 20.628

20.628	10.01	1353.31	.00	.00	1353.74	.43	.76	.03	1357.10
5700.	0.	5700.	0.	0.	1089.	0.	1152.	122.	1356.30
.95	.00	5.23	.00	.000	.035	.000	.000	1343.30	9917.80
.001125	530.	523.	520.	2	0	0	.00	150.61	10068.41

*SECNO 20.725

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   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   20.725     8.84  1356.04  1356.04      .00  1359.09     3.06     1.32      .79  1360.40
    5700.       0.    5700.       0.       0.     406.       0.    1161.     123.   1361.00
      .96      .00    14.03      .00     .000     .035     .000     .000  1347.20  9959.29
  .010764     510.     512.     520.       20       11        0      .00    67.22 10026.51


CCHV=     .300 CEHV=     .500
*SECNO 20.737

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1363.00 ELREA=     1363.00

   20.737     7.27  1358.17  1358.17      .00  1361.84     3.67      .80      .31  1350.90
    5700.       0.    5700.       0.       0.     371.       0.    1162.     123.   1350.90
      .96      .00    15.38      .00     .000     .035     .000     .000  1350.90  9968.00
  .009320      80.      80.      80.       20       15        0      .00    51.00 10019.00



SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1356.93 , NOT    1358.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00    100.00     51.00      3.00    576.00       .00   1351.00   1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.59
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SECNO    DEPTH    CWSEL    CRIWS    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     ENOST


CLASS B LOW FLOW

3420 BRIDGE W.S.=    1358.54 BRIDGE VELOCITY=      15.64     CALCULATED CHANNEL AREA=       362.

 EGPRS      EGLWC       H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                                 AREA
       .00   1362.70      .00        0.     5700.      576.      576.     1363.00   1366.00        0.



3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1364.00 ELREA=      1364.00

   20.750     9.60  1360.60      .00      .00  1362.70     2.11      .86      .00  1351.00
    5700.       0.    5700.       0.       0.     490.       0.    1162.     123.   1351.00
      .96      .00    11.64      .00     .000     .035     .000     .000  1351.00  9968.00
  .003636      71.      71.      71.        0        0        0      .00    51.00 10019.00


*SECNO 20.819

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .67


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1366.90 ELREA=      1366.90

   20.819     5.87  1362.37      .00      .00  1364.78     2.41     1.92      .15  1356.50
    5700.       0.    5700.       0.       0.     458.       0.    1166.     124.   1356.50
      .97      .00    12.46      .00     .000     .035     .000     .000  1356.50  9965.00
  .008133     375.     365.     345.        3        0        0      .00    78.00 10043.00


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1361.20 , NOT    1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00    100.00     77.30      3.30    655.00       .00   1357.40   1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS
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SECND	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	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

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

20.841	6.98	1364.38	.00	.00	1366.08	1.70	1.31	.00	1357.40
5700.	0.	5700.	0.	0.	545.	0.	1168.	124.	1357.40
.97	.00	10.46	.00	.000	.035	.000	.000	1357.40	9965.00
.004551	115.	115.	115.	0	0	0	.00	78.00	10043.00

*SECND 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	9.68	1365.98	.00	.00	1366.67	.69	.28	.30	1365.30
5700.	86.	5614.	0.	78.	835.	0.	1169.	125.	1367.60
.97	1.11	6.72	.00	.040	.035	.000	.000	1356.30	9800.89
.001946	90.	100.	110.	2	0	0	.00	261.14	10062.04

CCHV= .100 CEHV= .300
*SECND 20.942

3265 DIVIDED FLOW

20.942	7.69	1367.29	.00	.00	1367.72	.43	1.02	.03	1368.60
5700.	0.	3724.	1976.	0.	673.	417.	1180.	128.	1366.50
1.00	.02	5.53	4.73	.040	.035	.035	.000	1359.60	9629.81
.002779	530.	433.	490.	2	0	0	.00	313.22	10168.29

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.036     8.45  1371.95  1371.95      .00  1373.07     1.12     1.76      .21  1370.70
    5700.     367.    5203.     130.     186.     587.      56.    1191.     132.   1370.40
     1.02     1.97     8.87     2.34     .040     .035     .040     .000  1363.50  9568.93
  .004734     490.     496.     490.       20       12        0      .00   520.10 10089.02


*SECNO 21.127
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1374.00 ELREA=      1375.00

   21.127     8.05  1374.75  1374.75      .00  1375.74     1.00     2.13      .01  1374.20
    5700.    1077.    4623.       0.     394.     525.       0.    1200.     137.   1375.00
     1.03     2.73     8.80      .00     .040     .035     .000     .000  1366.70  9631.62
  .004360     400.     480.     500.        2       10        0      .00   434.39 10066.01


*SECNO 21.230

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.230     8.36  1380.36  1380.36      .00  1381.67     1.30     2.99      .09  1379.30
    5700.     509.    4047.    1144.     153.     392.     191.    1210.     142.   1380.60
     1.05     3.32    10.33     5.98     .040     .035     .040     .000  1372.00  9818.28
  .007215     560.     544.     500.       20        8        0      .00   304.81 10126.36


*SECNO 21.363

3265 DIVIDED FLOW
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EC       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      ARGB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3280 CROSS SECTION     21.36 EXTENDED       .36 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.07

   21.363     9.27  1383.37      .00      .00  1383.90      .53     2.16      .08  1384.40
    5700.      98.    5566.      36.      51.     939.      46.    1224.     147.   1382.10
     1.08     1.94     5.93      .77     .040     .035     .040     .000  1374.10  9556.04
  .0016B6     740.     702.     700.        2        0        0      .00   366.91 10337.00


*SECNO 21.484

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.484     8.03  1386.53  1386.53      .00  1387.44      .92     1.88      .11  1386.90
    5700.    2045.    3648.       7.     511.     400.       4.    1239.     154.   1386.50
     1.11     4.00     9.12     1.63     .040     .035     .040     .000  1378.50  9497.84
  .006378     650.     639.     520.       20       12        0      .00   514.70 10076.82


*SECNO 21.576

3265 DIVIDED FLOW

3280 CROSS SECTION     21.58 EXTENDED       .54 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.576     7.14  1389.24  1389.24      .00  1390.02      .78     2.51      .01  1390.00
    5700.     721.    4008.     971.     336.     488.     286.    1248.     159.   1388.30
     1.13     2.15     8.22     3.39     .040     .035     .040     .000  1382.10  9388.00
  .005020     320.     486.     480.        2       12        0      .00   868.38 10340.54


*SECNO 21.669
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   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      ICCNT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW

3280 CROSS SECTION     21.67 EXTENDED       .18 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.669     9.38  1393.38  1393.38      .00  1393.98      .60     2.28      .02  1393.80
    5500.     905.    2788.    1806.     391.     338.     559.    1261.     169.   1392.00
     1.15     2.32     8.25     3.23     .040     .035     .040     .000  1384.00  9392.00
  .004519     440.     491.     470.       20       16        0      .00   977.37 10414.00


*SECNO 21.742

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.742     8.78  1395.18  1395.18      .00  1396.38     1.19     1.92      .18  1394.70
    5500.      29.    5239.     232.      29.     583.     122.    1270.     176.   1394.20
     1.16     1.02     8.98     1.90     .040     .035     .040     .000  1386.40  9744.71
  .005365     430.     385.     390.        2        8        0      .00   525.85 10353.48


*SECNO 21.840
   21.840     6.94  1398.04      .00      .00  1398.83      .80     2.42      .04  1396.20
    5500.     946.    4157.     397.     210.     525.     174.    1280.     181.   1397.00
     1.13     4.50     7.92     2.28     .040     .035     .040     .000  1391.10  9857.22
  .004314     430.     517.     430.        2        0        0      .00   437.88 10295.09


*SECNO 21.895
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.895     7.77  1399.67  1399.67      .00  1400.47      .80     1.34      .00  1398.00
    5500.    1555.    2864.    1080.     327.     312.     398.    1286.     184.   1397.70
     1.19     4.75     9.18     2.72     .040     .035     .040     .000  1391.90  9834.79
  .004943     330.     290.     220.        1        8        0      .00   596.22 10431.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.01

   21.933     4.06  1400.86      .00      .00  1400.99      .13      .46      .07  1398.00
    5500.    1740.    3230.     530.     809.     952.     270.    1293.     188.   1398.00
     1.21     2.15     3.39     1.96     .040     .035     .040     .000  1396.80  9314.75
  .001221     210.     210.     210.        2        0        0      .00   970.39 10285.14


*SECNO 21.953

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.953     7.06  1401.06  1401.06      .00  1402.01      .94      .20      .24  1400.20
    5500.    2375.    2982.     144.     470.     313.      32.    1296.     189.   1398.30
     1.22     5.05     9.53     4.45     .045     .045     .045     .000  1394.00  9424.44
  .009459      75.      74.      75.       20       14        0      .00   459.91 10052.98


*SECNO 22.065

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.94

   22.065     8.28  1404.08      .00      .00  1404.25      .17     2.17      .08  1404.10
    5500.    4155.    1274.      71.    1390.     294.      32.    1310.     196.   1402.00
     1.26     2.99     4.33     2.26     .045     .045     .045     .000  1395.80  9242.08
  .002509     430.     591.     630.        4        0        0      .00   777.84 10049.66
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 22.165

3265 DIVIDED FLOW

   22.165    10.25  1405.25      .00      .00  1405.46      .21     1.20      .01  1400.90
    5500.    4034.    1433.      32.    1387.     266.      24.    1330.     205.   1403.70
     1.30     2.91     5.39     1.33     .045     .045     .045     .000  1395.00  9137.48
  .002042     530.     528.     530.        3        0        0      .00   828.27 10060.52


*SECNO 22.273

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

   22.273     7.26  1406.66      .00      .00  1407.38      .71     1.77      .15  1404.10
    5500.    1974.    3526.       0.     438.     454.       0.    1345.     212.   1406.90
     1.32     4.51     7.76      .00     .045     .045     .000     .000  1399.40  9320.96
  .006928     470.     570.     580.        2        0        0      .00   419.21 10027.44


*SECNO 22.410

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   22.410    10.22  1414.22  1414.22      .00  1415.98     1.76     5.65      .31  1410.70
    5500.     768.    4586.     146.     157.     400.      38.    1357.     217.   1411.30
     1.34     4.89    11.45     3.83     .045     .045     .045     .000  1404.00  9854.46
  .008756     750.     723.     630.        3       11        0      .00   193.61 10066.88


*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS
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SECNO	DEPTH	CWSEL	CRIWS	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

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 4.56

22.483	10.96	1416.46	.00	.00	1416.58	.12	.44	.16	1411.10
5500.	301.	4552.	647.	195.	1524.	375.	1369.	220.	1411.20
1.38	1.55	2.99	1.72	.045	.045	.045	.000	1405.50	9874.91
.000421	380.	385.	390.	3	0	0	.00	325.09	10199.99

*SECNO 22.578

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .31

22.578	9.65	1416.34	.00	.00	1417.33	.99	.50	.26	1416.60
5500.	0.	5500.	0.	0.	689.	0.	1385.	222.	1421.20
1.40	.00	7.98	.00	.000	.045	.000	.000	1406.70	9968.38
.004498	540.	502.	490.	3	0	0	.00	95.82	10064.20

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.57

22.675	8.31	1418.01	.00	.00	1418.14	.14	.72	.09	1419.80
5500.	0.	5500.	0.	0.	1858.	0.	1400.	224.	1420.00
1.45	.00	2.96	.00	.000	.045	.000	.000	1409.70	9740.49
.000680	570.	512.	480.	2	0	0	.00	287.90	10028.39

*SECNO 22.794

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .51

22.794	7.85	1418.55	.00	.00	1418.97	.42	.75	.09	1417.80
5500.	1.	5395.	104.	2.	1029.	42.	1421.	228.	1416.10
1.48	.87	5.24	2.47	.045	.045	.045	.000	1410.70	9978.95
.002603	460.	628.	500.	2	0	0	.00	215.74	10194.69

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 22.880
   22.880     7.05  1420.05      .00      .00  1420.62      .58     1.60      .05  1426.40
    5500.       0.    5500.       0.       0.     902.       0.    1432.     230.   1424.20
     1.50      .00     6.10      .30     .000     .045     .000     .000  1413.00  9952.13
  .005065     440.     454.     480.        2        0        0      .00   211.78 10163.91


*SECNO 22.990
   22.990     5.73  1423.63      .00      .00  1424.26      .62     3.62      .01  1425.40
    5500.       0.    5500.       0.       0.     870.       0.    1444.     233.   1427.90
     1.53      .00     6.32      .00     .000     .045     .000     .000  1417.90  9754.06
  .007840     480.     581.     530.        3        0        0      .00   272.08 10026.14


*SECNO 23.097

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   23.097     4.79  1429.89  1429.89      .00  1431.46     1.57     6.49      .28  1432.30
    5500.      39.    5461.       0.      13.     542.       0.    1453.     236.   1430.80
     1.54     2.89    10.08      .00     .045     .045     .000     .000  1425.10  9899.14
  .018369     640.     565.     490.       10       11        0      .00   186.86 10117.43


*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.09

   23.168     4.15  1433.05      .00      .00  1433.22      .17     1.62      .14  1429.50
    5500.     764.    4435.     301.     311.    1270.     143.    1462.     240.   1430.30
     1.57     2.46     3.49     2.10     .045     .045     .045     .000  1428.90  9604.29
  .001925     330.     375.     300.        5        0        0      .00   609.23 10213.52
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   23.253     9.33  1434.53  1434.53      .00  1437.36     2.83     1.55      .80  1437.50
    3400.       0.    3400.       0.       0.     252.       0.    1473.     243.   1444.20
     1.58      .00    13.49      .00     .000     .040     .000     .000  1425.20  9978.44
  .014919     470.     459.     450.       20       17        0      .00    44.74 10023.18


*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS

   23.334     7.79  1440.39      .00      .00  1441.83     1.43     4.33      .14  1443.80
    3400.       0.    3400.       0.       0.     354.       0.    1476.     244.   1449.80
     1.59      .00     9.61      .00     .000     .040     .000     .000  1432.60  9969.06
  .007640     400.     417.     420.        2        0        0      .00    66.92 10035.98


*SECNO 23.416
   23.416     7.32  1443.82      .00      .00  1445.60     1.77     3.67      .10  1447.80
    3400.       0.    3400.       0.       0.     318.       0.    1479.     244.   1450.20
     1.61      .00    10.68      .00     .000     .040     .000     .000  1436.50  9980.93
  .009442     400.     433.     430.        3        0        0      .00    59.14 10040.07


*SECNO 23.514
   23.514     8.51  1448.11      .00      .00  1449.46     1.35     3.82      .04  1451.40
    3400.       0.    3400.       0.       0.     365.       0.    1483.     245.   1451.10
     1.62      .00     9.32      .00     .000     .040     .000     .000  1439.60  9977.54
  .005937     560.     517.     470.        2        0        0      .00    57.47 10035.01


*SECNO 23.544

3301 HV CHANGED MORE THAN HVINS

   23.544     7.51  1448.91      .00      .00  1450.79     1.88     1.17      .16  1453.20
    3400.       0.    3400.       0.       0.     309.       0.    1484.     245.   1452.90
     1.63      .00    10.99      .00     .000     .040     .000     .000  1441.40  9978.90
  .009552     190.     158.     150.        2        0        0      .00    54.80 10033.70
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	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

SPECIAL BRIDGE

SD	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	2.48	3.20	.00	5.70	1.00	14.10	.00	1442.00	1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.95

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3688.08	1453.59	2.80	3249.	152.	14.	14.	1445.00	1449.00	140.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.555	10.64	1452.64	.00	.00	1453.37	.74	2.58	.00	1453.80
3400.	0.	3400.	0.	0.	494.	0.	1485.	245.	1453.50
1.63	.00	6.89	.00	.000	.040	.000	.000	1442.00	9974.59
.002505	60.	60.	60.	2	0	8	.00	63.27	10037.86

*SECNO 23.591
3280 CROSS SECTION 23.59 EXTENDED 1.15 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.591	8.95	1453.15	.00	.00	1453.93	.78	.54	.01	1452.90
3400.	0.	3400.	0.	0.	478.	0.	1487.	246.	1453.80
1.64	.00	7.11	.00	.000	.040	.000	.000	1444.20	9968.00
.005292	100.	190.	210.	3	0	0	.00	75.49	10043.49

*SECNO 23.691

SECNO	DEPTH	CWSEL	CRIWS	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

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.691	8.75	1455.15	.00	.00	1456.48	1.33	2.39	.16	1457.60
3400.	0.	3400.	0.	0.	368.	0.	1492.	246.	1455.30
1.65	.00	9.24	.00	.000	.040	.000	.000	1446.40	9970.39
.006585	510.	528.	540.	2	0	0	.00	65.33	10035.72

*SECNO 23.815

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.815	9.31	1459.01	.00	.00	1460.09	1.08	3.59	.02	1458.90
4350.	0.	4350.	0.	0.	521.	0.	1499.	248.	1457.80
1.67	.00	8.35	.00	.000	.040	.000	.000	1449.70	9951.00
.004797	650.	655.	680.	3	0	0	.00	86.00	10037.00

*SECNO 23.912
3280 CROSS SECTION 23.91 EXTENDED .14 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.912	13.14	1461.04	.00	.00	1462.18	1.14	2.07	.02	1461.30
5300.	0.	5300.	0.	0.	619.	0.	1505.	249.	1460.90
1.69	.00	8.56	.00	.000	.040	.000	.000	1447.90	9967.41
.003558	480.	512.	510.	3	0	0	.00	75.59	10043.00

*SECNO 23.989

SECNO	DEPTH	CWSEL	CRIWS	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

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

23.989	12.91	1462.61	.00	.00	1463.23	.63	1.00	.05	1465.60
5300.	0.	5300.	0.	0.	835.	0.	1512.	249.	1465.80
1.71	.00	6.35	.00	.000	.040	.000	.000	1449.70	9944.77
.001801	400.	407.	410.	2	0	0	.00	98.91	10043.68

CCHV= .300 CEHV= .500
*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1463.70 ELREA= 1463.70

24.086	9.84	1463.44	.00	.00	1464.31	.87	.95	.12	1453.60
5300.	0.	5300.	0.	0.	708.	0.	1521.	250.	1453.60
1.73	.00	7.48	.00	.000	.040	.000	.000	1453.60	9972.00
.001924	450.	512.	560.	4	0	0	.00	72.00	10044.00

SPECIAL BRIDGE

SB	XR	XKOR	CDFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	71.60	3.00	590.00	.00	1453.60	1453.60

*SECNO 24.096
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1465.39	1464.37	.08	0.	5300.	590.	590.	1462.20	1466.70	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1466.00 ELREA= 1466.00

24.096	11.11	1464.71	.00	.00	1465.39	.68	1.09	.00	1453.60
5300.	0.	5300.	0.	0.	800.	0.	1522.	250.	1453.60
1.73	.00	6.62	.00	.000	.040	.000	.000	1453.60	9972.00
.001280	56.	56.	56.	2	0	0	.00	72.00	10044.00

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   SECNO    DEPTH    CWSEL    CRIWS    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   IOC      ICONT    CORAR    TOPWID     ENDST


*SECNO 24.106
   24.106    11.01  1465.21      .00      .00  1465.55      .34      .05      .10  1464.10
    5300.       1.    4878.     421.       1.    1012.     185.    1523.     251.   1458.50
     1.73      .80     4.82     2.28     .035     .040     .050     .000  1454.20  9952.58
  .000889      80.      53.      20.        2        0        0      .00   166.78 10119.36


CCHV=     .100 CEHV=     .300
*SECNO 24.195

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.49

   24.195    12.09  1465.69      .00      .00  1465.84      .15      .27      .02  1470.40
    5300.       0.    5300.       0.       0.    1707.       0.    1539.     253.   1466.40
     1.77      .00     3.11      .00     .000     .040     .000     .000  1453.60  9941.09
  .000402     470.     470.     460.        2        0        0      .00   196.58 10137.67


*SECNO 24.322

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.22

   24.322    14.31  1465.91      .00      .00  1465.95      .04      .10      .01  1463.50
    5300.       6.    4200.    1093.      15.    2371.    1071.    1578.     257.   1456.80
     1.89      .43     1.77     1.02     .035     .040     .050     .000  1451.60  9858.94
  .000081     640.     671.     630.        2        0        0      .00   366.31 10225.25


*SECNO 24.444

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .33

   24.444     8.65  1465.95      .00      .00  1466.10      .15      .12      .03  1465.00
    5300.       0.    4211.    1088.       1.    1325.     405.    1616.     261.   1461.70
     1.95      .49     3.18     2.69     .045     .045     .045     .000  1457.30  9926.47
  .000727     640.     644.     600.        2        0        0      .00   277.67 10204.13


*SECNO 24.542

3265 DIVIDED FLOW
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   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .29

   24.542     6.53  1466.33      .00      .00  1467.25      .92      .91      .23  1464.00
    5300.      26.    5274.       0.       8.     684.       0.    1630.     264.   1467.80
     1.96     3.33     7.71      .00     .045     .045     .000     .000  1459.80  9907.26
  .038955     470.     517.     530.        2        0        0      .00   181.23 10181.31


*SECNO 24.635
   24.635     5.25  1472.05  1471.83      .00  1473.32     1.28     5.97      .11  1474.50
    5300.       0.    5300.       0.       0.     584.       0.    1638.     266.   1472.40
     1.98      .00     9.07      .00     .000     .045     .000     .000  1466.80  9911.01
  .017410     650.     491.     220.       12       15        0      .00   194.18 10105.18


*SECNO 24.738

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.23

   24.738     4.89  1476.89      .00      .00  1477.18      .29     3.76      .10  1481.20
    5200.       0.    1399.    3801.       0.     323.     873.    1650.     270.   1480.90
     2.02      .00     4.33     4.35     .000     .045     .045     .000  1472.00  9936.06
  .003356     350.     544.     630.        4        0        0      .00   355.18 10340.68


*SECNO 24.838

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   24.838     5.63  1480.33  1480.33      .00  1480.92      .60     3.02      .09  1483.80
    5200.       0.    1244.    3956.       0.     141.     778.    1661.     275.   1483.50
     2.04      .00     8.85     5.09     .000     .045     .045     .000  1474.70  9968.35
  .016849     470.     528.     450.        1       12        0      .00   650.49 10633.62
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 24.943

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.83

   24.943     5.74  1483.44      .00      .00  1483.57      .12     2.60      .05  1481.80
    5200.     851.     498.    3850.     351.     133.    1408.    1679.     285.   1484.80
     2.09     2.43     3.76     2.73     .045     .045     .045     .000  1477.70  9801.22
  .002110     530.     554.     570.        7        0        0      .00   799.36 10618.77


*SECNO 25.048

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   25.048     3.57  1487.27  1487.27      .00  1487.98      .71     2.60      .18  1486.60
    5200.    1445.     645.    3110.     284.      84.     430.    1696.     293.   1493.60
     2.12     5.10     7.66     7.23     .045     .045     .045     .000  1483.70  9705.76
  .020608     580.     554.     520.       20       14        0      .00   557.24 10481.24


*SECNO 25.163

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.21

   25.163     6.19  1492.19      .00      .00  1492.51      .31     4.49      .04  1491.60
    4900.     205.    1144.    3551.      74.     219.     823.    1709.     299.   1493.10
     2.15     2.79     5.23     4.31     .045     .045     .045     .000  1486.00  9922.08
  .003749     640.     607.     580.        5        0        0      .00   369.01 10297.84
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 25.262
3280 CROSS SECTION     25.26 EXTENDED       .01 FEET


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1491.60 ELREA=      1510.00

   25.262    10.01  1494.01      .00      .00  1494.20      .19     1.68      .01  1491.60
    4900.    4119.     781.       0.    1187.     220.       0.    1724.     305.   1496.80
     2.19     3.47     3.54      .00     .045     .045     .000     .000  1484.00  9501.71
  .002847     470.     523.     570.        5        0        0      .00   521.78 10023.49


*SECNO 25.374
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   25.374     6.07  1499.37  1499.37      .00  1499.62      .26     1.89      .02  1499.30
    4900.    3795.    1105.       0.     981.     238.       0.    1744.     311.   1498.80
     2.24     3.87     4.64     2.06     .045     .045     .045     .000  1493.30  9655.94
  .002869     680.     591.     300.       20       20        0      .00   367.07 10023.00


*SECNO 25.434

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1504.90 ELREA=      1504.00

   25.434     8.17  1503.97  1503.97      .00  1506.92     2.95     1.79      .81  1504.90
    4900.       0.    4900.       0.       0.     355.       0.    1750.     313.   1504.00
     2.25      .00    13.78      .00     .000     .035     .000     .000  1495.80  9970.53
  .011721     400.     317.     190.       20       14        0      .00    65.40 10035.93


*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS
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   SECNO    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.25

   25.500    10.04  1507.74      .00      .00  1508.08      .34      .91      .26  1511.50
    4900.       0.    4900.       0.       0.    1044.       0.    1756.     314.   1509.00
     2.27      .00     4.69      .00     .000     .035     .000     .000  1497.70  9923.52
  .001109     250.     349.     420.        2        0        0      .00   170.83 10094.35


CCHV=     .300 CEHV=     .500
*SECNO 25.523

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.83

   25.523    11.99  1507.99      .00      .00  1508.19      .20      .07      .04  1498.00
    4900.     472.    3501.     927.     230.     885.     338.    1759.     315.   1498.00
     2.28     2.06     3.95     2.74     .050     .035     .035     .000  1496.00  9930.02
  .000331     120.     121.     120.        2        0        0      .00   161.62 10091.63


*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   25.534     5.21  1510.75  1510.75      .00  1513.36     2.61      .04     1.20  1515.00
    4900.       0.    4900.       0.       0.     378.       0.    1761.     315.   1515.00
     2.28      .00    12.96      .00     .000     .015     .000     .000  1505.54  9963.45
  .002246       58.      58.      58.       20       14        0      .00    73.10 10036.55


*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
   25.551     6.67  1512.21  1510.75      .00  1513.80     1.58      .13      .31  1515.00
    4900.       0.    4900.       0.       0.     485.       0.    1761.     315.   1515.00
     2.28      .00    10.10      .00     .000     .015     .000     .000  1505.54  9963.29
  .001025       90.      90.      90.       25        5        0      .00    73.41 10036.71
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 25.557
   25.557     6.54  1512.08      .00      .00  1514.01     1.93      .04      .18  1515.00
    4900.       0.    4900.       0.       0.     439.       0.    1762.     315.   1515.00
     2.28      .00    11.16      .00     .000     .015     .000     .000  1505.54  9959.87
  .001385      32.      32.      32.        2        0        0      .00    80.27 10040.13


*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS

   25.561     8.76  1514.36      .00      .00  1514.55      .19      .02      .52  1514.90
    2900.       0.    2900.       0.       0.     825.       0.    1762.     315.   1515.20
     2.28      .00     3.51      .00     .000     .035     .000     .000  1505.60  9949.33
  .000529      20.      21.      20.        3        0        0      .00   117.68 10067.02


CCHV=     .100 CEHV=     .300
*SECNO 25.680

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.43

   25.680     8.24  1514.74      .00      .00  1514.78      .04      .21      .02  1514.40
    2700.     297.    1319.    1084.     333.     760.     734.    1781.     321.   1511.20
     2.40      .89     1.74     1.48     .035     .035     .035     .000  1506.50  9471.45
  .000225     580.     628.     660.        2        0        0      .00   663.75 10305.23


*SECNO 25.786

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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   SECNO    DEPTH    CWSEL    CRIWS    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


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1518.90 ELREA=     1515.80

   25.786     5.62  1516.32  1516.32      .00  1516.97      .64      .32      .18  1518.90
    2500.       0.    1868.     632.       0.     258.     212.    1795.     327.   1515.80
     2.42      .00     7.24     2.98     .000     .035     .035     .000  1510.70  9982.01
  .005773     600.     560.     470.       20       18        0      .00   351.98 10442.86


*SECNO 25.947
   25.947     6.67  1521.07      .00      .00  1521.63      .56     4.65      .01  1522.70
    2300.       0.    1967.     333.       0.     315.      81.    1804.     332.   1520.60
     2.46      .00     6.24     4.13     .000     .035     .035     .000  1514.40  9958.72
  .005225     870.     850.     830.        2        0        0      .00   164.54 10123.26


*SECNO 26.058
   26.058     7.29  1523.49      .00      .00  1523.98      .49     2.35      .01  1522.00
    2200.     621.    1579.       0.     178.     252.       0.    1809.     334.   1524.00
     2.49     3.49     6.27      .00     .035     .035     .000     .000  1516.20  9841.26
  .003212     540.     586.     570.        2        0        0      .00   182.03 10023.28


*SECNO 26.152
   26.152     4.99  1524.99      .00      .00  1525.46      .46     1.47      .00  1525.40
    2000.       0.    2000.       0.       0.     367.       0.    1813.     335.   1526.00
     2.51      .00     5.45      .00     .000     .035     .000     .000  1520.00  9958.10
  .003182     240.     496.     550.        2        0        0      .00   105.87 10063.97


*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   26.265     6.15  1528.15  1528.15      .00  1529.39     1.24     3.01      .23  1531.70
    1900.       0.    1758.     142.       0.     191.      39.    1817.     337.   1526.50
     2.53      .00     9.23     3.64     .000     .035     .035     .000  1522.00  9972.98
  .009530     580.     597.     610.        5       11        0      .00   103.26 10076.25
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96

   26.372     7.55  1531.35      .00      .00  1531.67      .32     2.19      .09  1531.60
    1700.       0.    1700.       0.       0.     372.       0.    1821.     338.   1533.80
     2.57      .00     4.57      .00     .000     .035     .000     .000  1523.80  9967.15
  .001979     600.     565.     510.        3        0        0      .00    97.17 10064.32


*SECNO 26.492

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.99

   26.492     6.45  1532.15      .00      .00  1532.22      .08      .53      .02  1537.50
    1600.       0.    1600.       0.       0.     721.       0.    1829.     340.   1536.00
     2.65      .00     2.22      .00     .000     .035     .000     .000  1525.70  9885.25
  .000442     640.     634.     610.        3        0        0      .00   183.14 10068.38


*SECNO 26.582

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  6.38

   26.582     6.14  1532.24      .00      .00  1532.25      .00      .02      .01  1528.20
    1600.     732.     590.     279.    1981.    1036.     774.    1853.     345.   1527.20
     2.94      .37      .57      .36     .040     .030     .040     .000  1524.10  9470.59
  .000011     460.     475.     480.        2        0        0      .00   718.50 10189.09


*SECNO 26.673

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   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


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1535.00 ELREA=     1533.20

  26.673     2.18  1533.98  1533.98      .00  1534.51      .53      .02      .16  1534.30
   1300.       0.    1095.     205.       0.     174.      74.    1876.     350.   1533.20
    2.97      .00     6.28     2.76     .000     .030     .040     .000  1531.80  9957.83
 .009681     510.     480.     460.       20       14        0      .00   239.21 10280.58


*SECNO 26.784
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  26.784     3.48  1546.18  1546.18      .00  1547.20     1.02     5.95      .15  1551.20
   1100.       0.    1100.       0.       0.     136.       0.    1879.     352.   1551.50
    2.99      .00     8.10      .00     .000     .030     .000     .000  1542.70  9980.90
 .010948     590.     586.     530.       20       14        0      .00    68.01 10048.91


*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 42.74

  26.883     7.21  1547.31      .00      .00  1547.31      .00      .01      .10  1544.70
   1000.       1.     936.      63.      10.    2370.     292.    1895.     355.   1542.80
    3.37      .10      .40      .21     .040     .030     .040     .000  1540.10  9765.39
 .000005     530.     523.     500.        2        0        0      .00   434.21 10199.60


*SECNO 26.984

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .52

  26.984     6.81  1547.31      .00      .00  1547.32      .00      .00      .00  1545.50
    900.       1.     764.     135.      10.    1283.     394.    1921.     360.   1546.50
    3.63      .13      .60      .34     .040     .030     .040     .000  1540.50  9932.30
 .000015     480.     533.     460.        2        0        0      .00   371.13 10336.41
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1565.00 ELREA=     1562.60

   27.060     5.36  1559.46  1559.46      .00  1561.02     1.56      .02      .47  1560.80
     900.       0.     900.       0.       0.      90.       0.    1930.     362.   1562.60
     3.64      .00    10.02      .00     .000     .030     .000     .000  1554.10  9983.67
  .010153     270.     401.     470.       20       15        0      .00    29.47 10013.14


*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.65


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1565.00 ELREA=     1565.00

   27.166     6.98  1562.18      .00      .00  1562.35      .17     1.19      .14  1564.20
     600.       0.     600.       0.       0.     181.       0.    1932.     362.   1563.90
     3.69      .00     3.31      .00     .000     .030     .000     .000  1555.20  9981.04
  .000644     560.     560.     560.        3        0        0      .00    38.99 10020.03


*SECNO 27.294
   27.294     6.54  1562.54      .00      .00  1562.59      .05      .23      .01  1565.20
     400.       0.     400.       0.       0.     233.       0.    1935.     363.   1564.60
     3.79      .00     1.72      .00     .000     .030     .000     .000  1556.00  9972.01
  .000167     710.     676.     630.        3        0        0      .00    50.20 10022.21


CCHV=     .100 CEHV=     .300
*SECNO -19.560
START TRIB COMP
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   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


    -19.560    19.560  1328.212
  -19.560    12.61  1328.21      .00      .00  1330.15     1.93      .00      .00  1329.70
   14600.      0.   14600.       0.       0.    1308.       0.    1948.     365.   1330.60
     3.81     .00    11.16      .00     .000     .035     .000     .000  1315.60  9931.37
  .003382    730.     729.     720.        0        0        0      .00   129.62 10060.99


*SECNO  .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .029     9.75  1329.35  1329.35      .00  1332.60     3.24     1.11      .39  1329.50
    9500.      0.    9478.      22.       0.     655.      17.    1957.     366.   1328.20
     3.82     .00    14.47     1.25     .000     .015     .035     .000  1319.60  9942.56
  .001821    380.     430.     450.       20       15        0      .00   130.50 10073.06


*SECNO  .112

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

     .112    11.44  1332.94      .00      .00  1333.44      .50      .57      .27  1332.10
    9500.     100.    9400.       0.      88.    1654.       0.    1971.     368.   1334.80
     3.85     1.14     5.68      .00     .035     .030     .000     .000  1321.50  9762.30
  .000828    430.     483.     450.        3        0        0      .00   330.25 10092.55


*SECNO  .198
     .198     9.51  1333.31      .00      .00  1333.94      .63      .46      .04  1332.40
    9500.      14.    9486.       0.      16.    1493.       0.    1988.     371.   1337.80
     3.87     .89     6.35      .00     .035     .030     .000     .000  1323.80  9860.87
  .001241    460.     454.     420.        2        0        0      .00   249.57 10110.44


*SECNO  .288
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   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .288     7.61  1333.31  1333.31      .00  1335.83     2.52     1.21      .57  1336.00
    9500.       0.    9500.       0.       0.     746.       0.    2000.     374.   1335.90
     3.88      .00    12.74      .00     .000     .030     .000     .000  1325.70  9903.19
  .007920     470.     475.     460.        3       15        0      .00   150.75 10053.94


*SECNO  .398

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.79

     .398     8.47  1337.27      .00      .00  1338.35     1.08     2.37      .14  1338.90
    9500.       0.    9500.       0.       0.    1139.       0.    2013.     376.   1340.60
     3.89      .00     8.34      .00     .000     .030     .000     .000  1328.80  9912.48
  .002485     600.     581.     540.        2        0        0      .00   181.83 10094.30


*SECNO  .482
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3697 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .482    11.15  1342.35  1342.35      .00  1343.41     1.05     1.00      .00  1341.10
    9500       79.    6887.    2534.      36.     722.     942.    2025.     380.   1338.00
     3.91     2.17     9.54     2.69     .035     .030     .035     .000  1331.20  9903.83
  .002295     440.     444.     270.       20       12        0      .00   889.74 10793.57


*SECNO  .575
     .575    12.32  1343.82      .00      .00  1344.53      .71     1.09      .03  1340.20
    9500.     727.    7778.     994.     211.    1057.     451.    2045.     389.   1343.10
     3.93     3.44     7.36     2.20     .035     .030     .035     .000  1331.50  9777.80
  .002143     460.     491.     500.        3        0        0      .00   730.21 10508.02


*SECNO  .697
     .697    11.06  1345.06      .00      .00  1346.10     1.04     1.47      .10  1346.40
    9400.       0.    9013.     387.       0.    1082.     114.    2066.     396.   1341.40
     3.95      .00     8.33     3.40     .000     .030     .035     .000  1334.00  9856.01
  .002432     640.     644.     640.        2        0        0      .00   237.20 10093.21
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   SECND    DEPTH    CWSEL    CRIWS    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


*SECND  .826

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .826     9.49  1348.29  1348.29      .00  1350.53     2.23     2.75      .36  1345.50
    9400.     729.    8671.       0.     130.     701.       0.    2082.     399.   1349.50
     3.97     5.63    12.38      .00     .035     .035     .000     .000  1338.80  9845.35
  .007973     680.     681.     660.       20       15        0      .00   199.85 10045.20


*SECND  .945

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.23

     .945    11.72  1352.12      .00      .00  1352.63      .52     1.93      .17  1348.60
    9400.    1059.    7814.     526.     364.    1260.     223.    2101.     405.   1349.50
     4.00     2.91     6.20     2.36     .035     .035     .035     .000  1340.40  9624.18
  .001604     680.     628.     600.        3        0        0      .00   561.70 10185.88


*SECND 1.035
    1.035    11.05  1352.93      .00      .00  1353.65      .72      .96      .06  1350.80
    9400.    1060.    7956.     385.     284.    1103.     117.    2119.     410.   1348.80
     4.02     3.73     7.21     3.30     .035     .035     .035     .000  1341.90  9686.18
  .002658     440.     475.     460.        3        0        0      .00   460.77 10146.95


*SECND 1.121
    1.121    10.56  1354.16      .00      .00  1354.96      .80     1.29      .02  1355.00
    9400.       0.    9396.       4.       0.    1310.       5.    2134.     414.   1353.60
     4.04      .00     7.17      .82     .000     .040     .040     .000  1343.60  9871.67
  .003028     480.     454.     440.        2        0        0      .00   235.28 10106.95


*SECND 1.204
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   SECNO    DEPTH    CWSEL    CRIWS    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


3265 DIVIDED FLOW

3280 CROSS SECTION      1.20 EXTENDED       .02 FEET


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.204    11.12  1355.42  1355.42      .00  1357.51     2.09     2.02      .39  1355.60
    9400.       0.    8391.    1009.       0.     689.     215.    2145.     416.   1352.50
     4.05      .03    12.18     4.70     .040     .040     .040     .000  1344.30  9930.00
  .007829     430.     438.     450.        2        9        0      .00   226.07 10173.36


*SECNO 1.315

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.29

    1.315    10.53  1359.33      .00      .00  1359.72      .39     2.04      .17  1359.70
    9100.       0.    6944.    2156.       0.    1301.     569.    2168.     421.   1359.00
     4.09      .00     5.34     3.79     .000     .040     .040     .000  1348.80  9904.63
  .001396     720.     734.     700.        3        0        0      .00   332.04 10236.67


*SECNO 1.420
 WATER EL=X5 CARD=   1361.000

3265 DIVIDED FLOW

    1.420     7.00  1361.00      .00      .00  1361.67      .67      .59      .08  1358.00
    8400.    4309.    2458.    1634.     793.     260.     518.    2184.     427.   1358.00
     4.11     5.44     9.46     3.16     .020     .020     .020     .000  1354.00  9555.00
  .001550     380.     407.     420.        0        0        0      .00   970.00 10785.00
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THIS RUN EXECUTED 3/12/91 7: 6: 7

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  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAVE CREEK WASH

SUMMARY PRINTOUT

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	15.015	1205.69	1216.00	9945.06	10055.05	109.99	10.31	10300.00	1.43	.00	.00	.00	.00
	15.015	1205.69	1219.08	9945.04	10055.06	110.02	13.39	16100.00	2.02	.00	.00	.00	.00
	15.015	1205.69	1220.40	9945.04	10055.07	110.03	14.71	18500.00	2.19	.00	.00	.00	.00
	15.109	1205.94	1216.25	9945.06	10055.05	109.99	10.31	10300.00	1.43	.25	.00	.00	.00
	15.109	1205.94	1219.33	9945.04	10055.06	110.02	13.40	16100.00	2.02	.26	.00	.00	.00
	15.109	1205.94	1220.64	9945.04	10055.07	110.03	14.70	18500.00	2.19	.24	.00	.00	.00
	15.204	1206.19	1216.50	9945.06	10055.05	109.99	10.31	10300.00	1.43	.25	.00	.00	.00
	15.204	1206.19	1219.59	9945.04	10055.06	110.02	13.40	16100.00	2.02	.26	.00	.00	.00
	15.204	1206.19	1220.89	9945.04	10055.07	110.03	14.70	18500.00	2.20	.24	.00	.00	.00
*	15.310	1206.88	1216.38	9967.56	10032.54	64.98	9.50	10300.00	4.64	-.12	.00	.00	.00
*	15.310	1206.88	1219.61	9967.54	10032.55	65.01	12.73	16100.00	6.20	.02	.00	.00	.00
*	15.310	1206.88	1220.82	9967.54	10032.56	65.02	13.94	18500.00	6.79	-.07	.00	.00	.00
*	15.454	1207.26	1219.56	9967.55	10032.55	65.00	12.30	10300.00	2.72	3.18	.00	.00	.00
*	15.454	1207.26	1223.31	9967.53	10032.57	65.04	16.05	16100.00	3.86	3.70	.00	.00	.00
	15.454	1207.26	1224.72	9967.52	10032.57	65.05	17.46	18500.00	4.29	3.90	.00	.00	.00
*	15.530	1226.20	1234.42	9947.65	10052.44	104.79	8.22	10300.00	3.37	14.86	.00	.00	.00
*	15.530	1226.20	1236.90	9942.71	10057.39	114.69	10.70	16100.00	4.27	13.59	.00	.00	.00
*	15.530	1226.20	1237.78	9941.50	10059.15	117.65	11.58	18500.00	4.62	13.05	.00	.00	.00
*	15.680	1229.55	1237.77	9947.64	10052.45	104.80	8.22	10300.00	3.37	3.35	.00	.00	.00
*	15.680	1229.55	1240.25	9942.70	10057.40	114.70	10.70	16100.00	4.27	3.35	.00	.00	.00
*	15.680	1229.55	1241.13	9941.50	10059.17	117.67	11.58	18500.00	4.61	3.36	.00	.00	.00
*	15.878	1233.87	1241.67	9944.06	10055.93	111.87	7.80	10300.00	3.20	3.90	.00	.00	.00
*	15.878	1233.87	1244.03	9939.34	10060.64	121.29	10.16	16100.00	4.09	3.78	.00	.00	.00
*	15.878	1233.87	1244.83	9938.00	10062.00	124.00	10.96	18500.00	4.47	3.70	.00	.00	.00

	SECND	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	15.920	1234.84	1242.61	9944.12	10055.86	111.74	7.77	10300.00	3.23	.94	.00	.00	.00
*	15.920	1234.84	1244.97	9939.40	10060.58	121.18	10.13	16100.00	4.12	.94	.00	.00	.00
*	15.920	1234.84	1245.81	9938.00	10062.00	124.00	10.97	18500.00	4.46	.98	.00	.00	.00
*	15.940	1235.22	1245.02	9940.06	10059.92	119.85	9.80	10300.00	1.83	2.41	.00	1253.60	1249.60
*	15.940	1235.22	1247.94	9938.00	10062.00	124.00	12.72	16100.00	2.35	2.97	.00	1253.60	1249.60
*	15.940	1235.22	1249.00	9938.00	10062.00	124.00	13.78	18500.00	2.56	3.18	.00	1253.60	1249.60
*	16.023	1237.45	1247.30	9955.47	10044.64	89.17	9.85	10300.00	3.75	2.28	.00	.00	.00
*	16.023	1237.45	1250.09	9949.63	10050.51	100.88	12.64	16100.00	4.67	2.16	.00	.00	.00
*	16.023	1237.45	1251.08	9947.57	10052.34	104.77	13.63	18500.00	5.01	2.08	.00	.00	.00
*	16.148	1240.24	1250.08	9955.49	10044.62	89.13	9.84	10300.00	3.76	2.78	.00	.00	.00
*	16.148	1240.24	1252.90	9949.60	10050.54	100.94	12.66	16100.00	4.65	2.81	.00	.00	.00
*	16.148	1240.24	1253.91	9947.50	10052.36	104.87	13.67	18500.00	4.97	2.82	.00	.00	.00
*	16.264	1242.83	1252.67	9955.49	10044.62	89.14	9.84	10300.00	3.75	2.59	.00	.00	.00
*	16.264	1242.83	1255.49	9949.60	10050.54	100.93	12.66	16100.00	4.65	2.59	.00	.00	.00
*	16.264	1242.83	1256.49	9947.51	10052.36	104.85	13.66	18500.00	4.98	2.58	.00	.00	.00
*	16.373	1245.26	1255.10	9955.49	10044.62	89.14	9.84	10300.00	3.75	2.43	.00	.00	.00
*	16.373	1245.26	1257.92	9949.61	10050.53	100.92	12.66	16100.00	4.66	2.43	.00	.00	.00
*	16.373	1245.26	1258.92	9947.51	10052.36	104.85	13.66	18500.00	4.98	2.43	.00	.00	.00
*	16.481	1247.59	1256.77	9952.94	10046.16	93.22	9.18	10200.00	3.63	1.67	.00	.00	.00
*	16.481	1247.59	1259.37	9947.48	10051.34	103.87	11.78	15700.00	4.49	1.46	.00	.00	.00
*	16.481	1247.59	1260.25	9945.73	10052.00	106.27	12.66	18000.00	4.87	1.34	.00	.00	.00
*	16.601	1250.26	1259.45	9952.91	10046.18	93.27	9.19	10200.00	3.62	2.68	.00	.00	.00
*	16.601	1250.26	1262.02	9947.52	10051.30	103.78	11.76	15700.00	4.51	2.65	.00	.00	.00
*	16.601	1250.26	1263.05	9945.63	10066.96	121.32	12.79	18000.00	4.73	2.80	.00	.00	.00
*	16.694	1252.26	1260.89	9950.10	10049.89	99.79	8.63	10200.00	3.47	1.44	.00	.00	.00
*	16.694	1252.26	1263.34	9945.46	10055.06	109.60	11.08	15700.00	4.34	1.31	.00	.00	.00
*	16.694	1252.26	1264.17	9945.00	10055.80	110.80	11.91	18000.00	4.73	1.12	.00	.00	.00
*	16.823	1255.14	1263.78	9950.08	10049.91	99.83	8.64	10200.00	3.46	2.89	.00	.00	.00
*	16.823	1255.14	1266.23	9945.45	10055.08	109.63	11.09	15700.00	4.33	2.89	.00	.00	.00
*	16.823	1255.14	1267.07	9945.00	10055.82	110.82	11.93	18000.00	4.71	2.90	.00	.00	.00
*	16.902	1256.19	1264.92	9947.78	10052.93	105.14	8.73	10200.00	3.33	1.14	.00	.00	.00
*	16.902	1256.19	1267.26	9943.09	10057.85	114.76	11.07	15700.00	4.21	1.03	.00	.00	.00
*	16.902	1256.19	1268.15	9941.31	10059.71	118.40	11.96	18000.00	4.50	1.07	.00	.00	.00
*	16.970	1256.36	1265.80	9945.29	10054.73	109.44	9.44	10200.00	3.27	.88	.00	.00	.00
*	16.970	1256.36	1268.07	9940.75	10059.28	118.53	11.71	15700.00	4.13	.81	.00	.00	.00
*	16.970	1256.36	1268.93	9939.04	10060.99	121.95	12.57	18000.00	4.43	.78	.00	.00	.00
*	16.988	1256.41	1268.17	9941.35	10059.67	118.32	11.76	10200.00	1.84	2.37	.00	1277.80	1273.75
*	16.988	1256.41	1270.99	9938.30	10063.90	125.60	14.58	15700.00	2.32	2.92	.00	1277.80	1273.75
*	16.988	1256.41	1272.03	9938.30	10063.90	125.60	15.62	18000.00	2.51	3.10	.00	1277.80	1273.75

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	17.061	1256.61	1267.84	9945.21	10056.07	110.86	11.23	10200.00	2.91	-.33	.00	.00	.00
	17.061	1256.61	1270.65	9939.59	10062.21	122.62	14.04	15700.00	3.32	-.34	.00	.00	.00
	17.061	1256.61	1271.71	9938.30	10064.54	126.24	15.10	18000.00	3.46	-.32	.00	.00	.00
*	17.206	1267.00	1271.24	9891.16	10108.84	217.68	4.24	10200.00	2.06	3.40	.00	.00	.00
*	17.206	1267.00	1272.63	9888.28	10111.72	223.44	5.63	15700.00	2.70	1.97	.00	.00	.00
	17.206	1267.00	1273.99	9885.46	10114.54	229.08	6.99	18000.00	2.24	2.27	.00	.00	.00
*	17.360	1256.70	1273.20	9533.68	10360.11	826.44	16.50	10200.00	.01	1.96	.00	.00	.00
*	17.360	1256.70	1275.20	9523.76	10370.66	846.90	18.50	15700.00	.02	2.57	.00	.00	.00
*	17.360	1256.70	1276.30	9518.31	10376.46	858.15	19.60	18000.00	.02	2.31	.00	.00	.00
*	17.494	1270.30	1279.31	9900.61	10165.55	264.95	9.01	8900.00	1.77	6.11	.00	.00	.00
*	17.494	1270.30	1280.62	9879.05	10243.95	364.90	10.32	13400.00	1.93	5.42	.00	.00	.00
*	17.494	1270.30	1281.04	9872.16	10272.74	400.58	10.74	15400.00	2.05	4.74	.00	.00	.00
*	17.588	1269.60	1281.70	9787.60	10219.62	392.63	12.10	8900.00	.20	2.39	.00	.00	.00
*	17.588	1269.60	1283.17	9780.44	10227.09	446.65	13.57	13400.00	.29	2.55	.00	.00	.00
*	17.588	1269.60	1283.71	9777.81	10229.83	452.02	14.11	15400.00	.33	2.67	.00	.00	.00
*	17.662	1271.60	1281.84	9836.68	10132.08	295.41	10.24	8900.00	.59	.15	.00	.00	.00
*	17.662	1271.60	1283.31	9831.99	10144.71	312.72	11.71	13400.00	.79	.14	.00	.00	.00
*	17.662	1271.60	1283.85	9829.34	10149.34	320.00	12.25	15400.00	.88	.13	.00	.00	.00
	17.783	1275.40	1283.83	9907.48	10091.63	184.15	8.43	8900.00	1.36	1.99	.00	.00	.00
*	17.783	1275.40	1285.10	9902.30	10099.42	197.12	9.70	13400.00	2.00	1.80	.00	.00	.00
*	17.783	1275.40	1285.58	9900.35	10101.73	201.38	10.18	15400.00	2.28	1.74	.00	.00	.00
	17.932	1277.90	1288.49	9957.97	10061.66	103.69	10.59	8900.00	2.29	4.66	.00	.00	.00
	17.932	1277.90	1290.34	9938.72	10071.68	132.95	12.44	13400.00	3.22	5.23	.00	.00	.00
	17.932	1277.90	1290.98	9921.09	10085.31	164.22	13.08	15400.00	3.62	5.40	.00	.00	.00
*	18.042	1282.30	1291.51	9951.74	10048.24	96.50	9.21	8900.00	2.44	3.02	.00	.00	.00
*	18.042	1282.30	1293.57	9951.64	10048.33	96.70	11.27	13400.00	3.37	3.24	.00	.00	.00
*	18.042	1282.30	1294.31	9951.61	10048.37	96.76	12.01	15400.00	3.83	3.33	.00	.00	.00
	18.061	1283.10	1292.13	9951.74	10048.23	96.48	9.03	8900.00	2.56	.62	.00	1301.60	1293.20
	18.061	1283.10	1294.53	9951.63	10048.34	96.71	11.43	13400.00	3.26	.96	.00	1301.60	1293.20
	18.061	1283.10	1296.44	9951.54	10048.43	96.89	13.34	15400.00	2.99	2.13	.00	1301.60	1293.20
*	18.081	1281.10	1294.88	9911.30	10079.61	168.31	13.78	8900.00	.57	2.75	.00	.00	.00
*	18.081	1281.10	1298.00	9899.76	10093.74	193.98	16.90	13400.00	.71	3.47	.00	.00	.00
*	18.081	1281.10	1299.54	9876.94	10106.51	229.58	18.44	15400.00	.71	3.10	.00	.00	.00
	18.174	1281.70	1295.45	9875.25	10212.56	295.78	13.75	8900.00	.37	.57	.00	.00	.00
	18.174	1281.70	1298.68	9862.81	10413.96	471.77	16.98	13400.00	.35	.68	.00	.00	.00
	18.174	1281.70	1300.22	9856.87	10454.71	597.84	18.52	15400.00	.30	.68	.00	.00	.00
	18.269	1283.80	1295.67	9899.06	10081.72	182.66	11.87	8900.00	.67	.22	.00	.00	.00
*	18.269	1283.80	1298.72	9887.41	10101.27	213.86	14.92	13400.00	.77	.04	.00	.00	.00
*	18.269	1283.80	1300.17	9881.86	10110.59	228.73	16.37	15400.00	.76	-.05	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	18.362	1285.30	1296.26	9915.08	10087.42	172.34	10.96	8900.00	.87	.58	.00	.00	.00
	18.362	1285.30	1299.15	9902.19	10101.48	199.28	13.85	13400.00	.99	.43	.00	.00	.00
	18.362	1285.30	1300.54	9895.20	10108.18	212.97	15.24	15400.00	.97	.36	.00	.00	.00
*	18.445	1287.30	1303.03	9900.44	10098.63	198.19	15.73	8900.00	2.18	6.78	.00	.00	.00
*	18.445	1287.30	1304.77	9889.23	10188.16	298.93	17.47	13400.00	2.14	5.62	.00	.00	.00
*	18.445	1287.30	1305.39	9885.22	10271.68	386.47	18.09	15400.00	2.09	4.85	.00	.00	.00
*	18.456	1287.70	1305.97	9884.06	10304.52	420.45	18.27	8900.00	.64	2.94	8609.61	1299.50	1294.20
*	18.456	1287.70	1306.93	9876.82	10314.93	438.12	19.23	13400.00	.90	2.16	13105.56	1299.50	1294.20
*	18.456	1287.70	1307.31	9873.21	10316.94	443.73	19.61	15400.00	1.00	1.92	15108.43	1299.50	1294.20
*	18.545	1289.30	1306.65	9889.26	10159.15	269.89	17.35	8900.00	.22	.68	.00	.00	.00
*	18.545	1289.30	1307.83	9883.50	10167.00	283.50	18.53	13400.00	.39	.90	.00	.00	.00
*	18.545	1289.30	1308.28	9881.31	10169.98	288.68	18.98	15400.00	.47	.97	.00	.00	.00
	18.575	1289.30	1306.72	9888.92	10159.60	270.68	17.42	8900.00	.19	.07	.00	.00	.00
	18.575	1289.30	1307.95	9882.92	10167.79	284.87	18.65	13400.00	.34	.12	.00	.00	.00
	18.575	1289.30	1308.43	9880.61	10170.93	290.32	19.13	15400.00	.41	.14	.00	.00	.00
	18.583	1289.40	1307.35	9886.31	10163.16	276.85	17.95	8900.00	.17	.64	8604.61	1299.00	1295.40
	18.583	1289.40	1308.89	9878.87	10173.31	294.44	19.49	13400.00	.29	.93	12993.36	1299.00	1295.40
	18.583	1289.40	1309.50	9875.91	10177.35	301.44	20.10	15400.00	.34	1.07	14974.04	1299.00	1295.40
	18.640	1290.20	1307.32	9893.12	10108.43	215.31	17.12	8900.00	.33	-.03	.00	.00	.00
	18.640	1290.20	1308.83	9883.82	10128.99	245.17	18.63	13400.00	.55	-.06	.00	.00	.00
	18.640	1290.20	1309.43	9879.37	10134.89	255.52	19.23	15400.00	.64	-.07	.00	.00	.00
	18.734	1292.40	1307.49	9894.03	10088.08	194.05	15.09	8900.00	.44	.17	.00	.00	.00
	18.734	1292.40	1309.06	9886.18	10109.49	223.31	16.66	13400.00	.73	.23	.00	.00	.00
	18.734	1292.40	1309.68	9883.01	10111.84	228.83	17.28	15400.00	.84	.26	.00	.00	.00
	18.832	1293.20	1307.81	9903.67	10095.59	191.92	14.61	8900.00	.47	.32	.00	.00	.00
	18.832	1293.20	1309.52	9895.04	10104.39	209.35	16.32	13400.00	.74	.46	.00	.00	.00
	18.832	1293.20	1310.19	9891.67	10107.84	216.17	16.99	15400.00	.85	.51	.00	.00	.00
	18.925	1294.60	1308.13	9897.82	10078.22	180.41	13.53	8900.00	.53	.31	.00	.00	.00
	18.925	1294.60	1309.93	9890.45	10084.90	194.45	15.33	13400.00	.84	.41	.00	.00	.00
	18.925	1294.60	1310.64	9887.57	10087.64	200.07	16.04	15400.00	.97	.45	.00	.00	.00
*	19.018	1297.60	1308.37	9882.21	10029.90	147.69	10.77	8900.00	1.10	.24	.00	.00	.00
*	19.018	1297.60	1310.19	9870.60	10036.15	165.55	12.59	13400.00	1.59	.26	.00	.00	.00
*	19.018	1297.60	1310.89	9866.12	10038.56	172.44	13.29	15400.00	1.80	.26	.00	.00	.00
*	19.117	1298.60	1309.19	9952.65	10051.27	98.61	10.59	8900.00	3.46	.83	.00	.00	.00
*	19.117	1298.60	1311.58	9944.93	10059.11	114.17	12.98	13400.00	4.11	1.39	.00	.00	.00
*	19.117	1298.60	1312.49	9942.00	10062.09	120.09	13.89	15400.00	4.37	1.59	.00	.00	.00
*	19.210	1300.20	1313.70	9937.78	10066.93	129.15	13.50	8900.00	1.32	4.51	.00	.00	.00
*	19.210	1300.20	1316.21	9927.12	10077.19	150.07	16.01	13400.00	1.68	4.63	.00	.00	.00
*	19.210	1300.20	1317.19	9922.94	10081.20	158.26	16.99	15400.00	1.82	4.70	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	19.283	1311.70	1317.39	9948.00	10057.00	109.00	5.69	8400.00	2.85	3.69	.00	.00	.00
*	19.283	1311.70	1319.17	9948.00	10057.00	109.00	7.47	12700.00	3.78	2.97	.00	.00	.00
*	19.283	1311.70	1319.92	9948.00	10057.00	109.00	8.22	14600.00	4.12	2.73	.00	.00	.00
*	19.299	1311.70	1318.86	9948.00	10057.00	109.00	7.16	8400.00	1.80	1.47	.00	1326.50	1324.20
*	19.299	1311.70	1321.14	9948.00	10057.00	109.00	9.44	12700.00	2.37	1.96	.00	1326.50	1324.20
*	19.299	1311.70	1322.06	9948.00	10057.00	109.00	10.36	14600.00	2.60	2.13	.00	1326.50	1324.20
	19.313	1311.70	1319.16	9955.47	10088.91	133.43	7.46	8400.00	2.09	.30	.00	.00	.00
	19.313	1311.70	1321.98	9947.91	10099.17	151.25	10.28	12700.00	1.98	.84	.00	.00	.00
	19.313	1311.70	1323.31	9944.34	10104.00	159.66	11.61	14600.00	1.87	1.25	.00	.00	.00
*	19.418	1313.00	1323.00	9962.77	10106.55	143.78	10.00	8400.00	1.23	3.84	.00	.00	.00
	19.418	1313.00	1324.79	9957.48	10114.32	156.84	11.79	12700.00	1.70	2.81	.00	.00	.00
	19.418	1313.00	1325.59	9955.11	10117.80	162.69	12.59	14600.00	1.83	2.29	.00	.00	.00
	19.560	1315.60	1325.37	9935.89	10056.21	120.32	9.77	8400.00	1.21	2.37	.00	.00	.00
	19.560	1315.60	1327.42	9932.65	10059.64	126.99	11.82	12700.00	1.73	2.63	.00	.00	.00
	19.560	1315.60	1328.21	9931.38	10060.98	129.60	12.61	14600.00	1.94	2.62	.00	.00	.00
*	19.625	1317.60	1326.51	9965.00	10025.00	60.00	8.91	3300.00	.59	1.14	.00	.00	.00
*	19.625	1317.60	1328.97	9965.00	10025.00	60.00	11.37	4900.00	.80	1.56	.00	.00	.00
*	19.625	1317.60	1329.89	9965.00	10025.00	60.00	12.29	5700.00	.93	1.68	.00	.00	.00
	19.691	1318.60	1326.56	9965.00	10025.00	60.00	7.96	3300.00	.74	.05	.00	1334.80	1328.30
	19.691	1318.60	1330.01	9965.00	10025.00	60.00	11.41	4900.00	.80	1.03	.00	1334.80	1328.30
	19.691	1318.60	1331.53	9965.00	10025.00	60.00	12.93	5700.00	.84	1.64	.00	1334.80	1328.30
	19.742	1319.10	1326.82	9955.26	10036.46	81.20	7.72	3300.00	.60	.27	.00	.00	.00
	19.742	1319.10	1330.40	9949.82	10041.21	91.39	11.30	4900.00	.53	.40	.00	.00	.00
	19.742	1319.10	1331.99	9935.22	10043.57	108.35	12.89	5700.00	.52	.46	.00	.00	.00
*	19.847	1318.80	1327.09	9954.74	10036.13	81.39	8.29	3300.00	.85	.27	.00	.00	.00
*	19.847	1318.80	1330.57	9945.02	10045.55	100.53	11.77	4900.00	.65	.16	.00	.00	.00
*	19.847	1318.80	1332.14	9940.63	10050.49	109.85	13.34	5700.00	.59	.15	.00	.00	.00
*	19.960	1324.60	1330.36	9956.84	10031.96	75.12	5.76	3300.00	2.02	3.27	.00	.00	.00
*	19.960	1324.60	1331.62	9952.81	10035.29	82.47	7.02	4900.00	2.52	1.06	.00	.00	.00
*	19.960	1324.60	1332.37	9950.40	10037.28	86.88	7.77	5700.00	2.55	.24	.00	.00	.00
*	19.974	1323.80	1332.04	9969.00	10020.00	51.00	8.24	3300.00	.96	1.68	.00	.00	.00
*	19.974	1323.80	1333.13	9969.00	10020.00	51.00	9.33	4900.00	1.65	1.51	.00	.00	.00
*	19.974	1323.80	1333.31	9969.00	10020.00	51.00	9.51	5700.00	2.14	.94	.00	.00	.00
	19.986	1323.80	1332.30	9969.00	10020.00	51.00	8.50	3300.00	.90	.26	.00	1337.90	1334.10
	19.986	1323.80	1334.37	9969.00	10020.00	51.00	10.57	4900.00	1.28	1.24	.00	1337.90	1334.10
	19.986	1323.80	1335.25	9969.00	10020.00	51.00	11.45	5700.00	1.48	1.94	.00	1337.90	1334.10
*	20.049	1327.10	1335.67	9976.33	10020.55	44.22	8.57	3300.00	2.80	3.37	.00	.00	.00
*	20.049	1327.10	1337.49	9973.10	10023.70	50.60	10.39	4900.00	3.38	3.12	.00	.00	.00
*	20.049	1327.10	1338.35	9971.56	10025.19	53.63	11.25	5700.00	3.54	3.10	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	20.144	1330.90	1340.46	9970.48	10024.50	54.01	9.56	3300.00	1.21	4.80	.00	.00	.00
*	20.144	1330.90	1342.56	9965.20	10041.27	76.07	11.66	4900.00	1.51	5.07	.00	.00	.00
*	20.144	1330.90	1343.48	9960.58	10044.51	83.94	12.58	5700.00	1.58	5.13	.00	.00	.00
	20.242	1333.30	1342.49	9972.10	10028.43	56.33	9.19	3300.00	1.29	2.02	.00	.00	.00
	20.242	1333.30	1344.56	9965.83	10046.33	80.50	11.26	4900.00	1.53	2.00	.00	.00	.00
	20.242	1333.30	1345.49	9961.30	10049.98	88.68	12.19	5700.00	1.57	2.00	.00	.00	.00
	20.335	1337.30	1344.71	9956.47	10033.41	76.94	7.41	3300.00	.86	2.22	.00	.00	.00
	20.335	1337.30	1346.63	9952.30	10037.27	84.96	9.33	4900.00	1.06	2.07	.00	.00	.00
	20.335	1337.30	1347.44	9950.57	10038.88	88.31	10.14	5700.00	1.17	1.95	.00	.00	.00
	20.347	1337.20	1344.74	9970.00	10021.00	51.00	7.54	3300.00	1.14	.04	.00	.00	.00
	20.347	1337.20	1346.51	9970.00	10021.00	51.00	9.31	4900.00	1.65	-.12	.00	.00	.00
	20.347	1337.20	1347.24	9970.00	10021.00	51.00	10.04	5700.00	1.92	-.20	.00	.00	.00
	20.366	1337.20	1345.11	9970.00	10021.00	51.00	7.91	3300.00	1.04	.36	.00	1354.50	1349.70
	20.366	1337.20	1347.10	9970.00	10021.00	51.00	9.90	4900.00	1.46	.59	.00	1354.50	1349.70
	20.366	1337.20	1347.97	9970.00	10021.00	51.00	10.77	5700.00	1.67	.73	.00	1354.50	1349.70
	20.423	1338.00	1346.05	9971.24	10058.80	87.56	8.05	3300.00	.97	.94	.00	.00	.00
	20.423	1338.00	1348.47	9962.62	10067.53	104.91	10.47	4900.00	.95	1.36	.00	.00	.00
	20.423	1338.00	1349.57	9958.69	10071.51	112.82	11.57	5700.00	.94	1.60	.00	.00	.00
	20.430	1339.30	1345.94	9985.00	10036.00	51.00	6.64	3300.00	1.47	-.11	.00	.00	.00
	20.430	1339.30	1348.13	9985.00	10036.00	51.00	8.83	4900.00	1.84	-.34	.00	.00	.00
	20.430	1339.30	1349.13	9985.00	10036.00	51.00	9.83	5700.00	2.01	-.44	.00	.00	.00
	20.444	1339.30	1346.56	9985.00	10036.00	51.00	7.26	3300.00	1.23	.62	.00	1355.50	1351.30
	20.444	1339.30	1348.87	9985.00	10036.00	51.00	9.57	4900.00	1.57	.74	.00	1355.50	1351.30
	20.444	1339.30	1349.92	9985.00	10036.00	51.00	10.62	5700.00	1.72	.80	.00	1355.50	1351.30
	20.529	1343.00	1348.60	9950.77	10040.99	90.21	5.60	3300.00	1.03	2.03	.00	.00	.00
	20.529	1343.00	1351.06	9908.91	10090.94	182.03	8.06	4900.00	.84	2.19	.00	.00	.00
	20.529	1343.00	1352.25	9905.35	10095.18	189.83	9.25	5700.00	.70	2.33	.00	.00	.00
*	20.628	1343.30	1350.51	9941.00	10061.30	120.30	7.21	3300.00	.35	1.92	.00	.00	.00
*	20.628	1343.30	1352.47	9919.76	10066.26	146.50	9.17	4900.00	.40	1.40	.00	.00	.00
	20.628	1343.30	1353.31	9917.80	10068.41	150.61	10.01	5700.00	.43	1.06	.00	.00	.00
*	20.725	1347.20	1353.87	9963.41	10022.37	58.96	6.67	3300.00	2.33	3.36	.00	.00	.00
*	20.725	1347.20	1355.37	9960.56	10025.23	64.67	8.17	4900.00	2.84	2.90	.00	.00	.00
*	20.725	1347.20	1356.04	9959.29	10026.51	67.22	8.84	5700.00	3.06	2.72	.00	.00	.00
*	20.737	1350.90	1355.95	9968.00	10019.00	51.00	5.05	3300.00	2.55	2.08	.00	.00	.00
*	20.737	1350.90	1357.47	9968.00	10019.00	51.00	6.57	4900.00	3.32	2.10	.00	.00	.00
*	20.737	1350.90	1358.17	9968.00	10019.00	51.00	7.27	5700.00	3.67	2.13	.00	.00	.00
*	20.750	1351.00	1357.67	9968.00	10019.00	51.00	6.67	3300.00	1.46	1.72	.00	1366.00	1363.00
*	20.750	1351.00	1359.68	9968.00	10019.00	51.00	8.68	4900.00	1.90	2.21	.00	1366.00	1363.00
*	20.750	1351.00	1360.60	9968.00	10019.00	51.00	9.60	5700.00	2.11	2.43	.00	1366.00	1363.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	20.819	1356.50	1360.31	9965.00	10043.00	78.00	3.81	3300.00	1.91	2.64	.00	.00	.00
*	20.819	1356.50	1361.55	9965.00	10043.00	78.00	5.05	4900.00	2.40	1.87	.00	.00	.00
*	20.819	1356.50	1362.37	9965.00	10043.00	78.00	5.87	5700.00	2.41	1.77	.00	.00	.00
*	20.841	1357.40	1362.25	9965.00	10043.00	78.00	4.85	3300.00	1.18	1.94	.00	1369.90	1365.40
*	20.841	1357.40	1363.71	9965.00	10043.00	78.00	6.31	4900.00	1.54	2.17	.00	1369.90	1365.40
*	20.841	1357.40	1364.38	9965.00	10043.00	78.00	6.98	5700.00	1.70	2.01	.00	1369.90	1365.40
*	20.860	1356.30	1363.37	9950.49	10055.63	105.14	7.07	3300.00	.58	1.12	.00	.00	.00
*	20.860	1356.30	1365.12	9942.80	10059.92	117.12	8.82	4900.00	.70	1.41	.00	.00	.00
*	20.860	1356.30	1365.98	9800.89	10062.04	261.14	9.68	5700.00	.69	1.60	.00	.00	.00
*	20.942	1359.60	1365.22	9859.24	10162.71	266.85	5.62	3300.00	.80	1.86	.00	.00	.00
	20.942	1359.60	1366.63	9857.04	10166.52	309.48	7.03	4900.00	.48	1.51	.00	.00	.00
	20.942	1359.60	1367.29	9629.81	10168.29	313.22	7.69	5700.00	.43	1.31	.00	.00	.00
	21.036	1363.50	1369.89	9913.20	10019.08	105.88	6.39	3300.00	1.27	4.66	.00	.00	.00
*	21.036	1363.50	1370.44	9912.38	10021.15	108.78	6.94	4900.00	2.07	3.81	.00	.00	.00
*	21.036	1363.50	1371.95	9568.93	10089.02	520.10	8.45	5700.00	1.12	4.66	.00	.00	.00
	21.127	1366.70	1373.27	9976.03	10060.29	84.26	6.57	3300.00	1.08	3.39	.00	.00	.00
*	21.127	1366.70	1374.66	9631.80	10065.67	433.87	7.96	4900.00	.80	4.21	.00	.00	.00
*	21.127	1366.70	1374.75	9631.62	10066.01	434.39	8.05	5700.00	1.00	2.80	.00	.00	.00
*	21.230	1372.00	1379.04	9866.06	10126.17	161.94	7.04	3300.00	1.36	5.76	.00	.00	.00
*	21.230	1372.00	1380.14	9821.74	10126.33	298.27	8.14	4900.00	1.17	5.49	.00	.00	.00
*	21.230	1372.00	1380.36	9818.28	10126.36	304.81	8.36	5700.00	1.30	5.62	.00	.00	.00
*	21.363	1374.10	1381.98	9562.54	10087.49	162.23	7.88	3300.00	.31	2.95	.00	.00	.00
*	21.363	1374.10	1382.92	9557.91	10186.41	203.11	8.82	4900.00	.47	2.78	.00	.00	.00
*	21.363	1374.10	1383.37	9556.04	10337.00	366.91	9.27	5700.00	.53	3.00	.00	.00	.00
*	21.484	1378.50	1385.59	9593.80	10060.27	318.09	7.09	3300.00	.94	3.61	.00	.00	.00
*	21.484	1378.50	1386.32	9506.20	10076.30	474.98	7.82	4900.00	.88	3.40	.00	.00	.00
*	21.484	1378.50	1386.53	9497.84	10076.82	514.70	8.03	5700.00	.92	3.16	.00	.00	.00
	21.576	1382.10	1388.40	9438.25	10332.66	406.32	6.30	3300.00	.81	2.80	.00	.00	.00
*	21.576	1382.10	1389.08	9388.00	10337.94	828.58	6.98	4900.00	.73	2.76	.00	.00	.00
*	21.576	1382.10	1389.24	9388.00	10340.54	868.38	7.14	5700.00	.78	2.71	.00	.00	.00
*	21.669	1384.00	1392.89	9433.35	10411.59	839.81	8.89	3200.00	.54	4.49	.00	.00	.00
*	21.669	1384.00	1393.26	9392.00	10413.78	946.87	9.26	4800.00	.57	4.18	.00	.00	.00
*	21.669	1384.00	1393.38	9392.00	10414.00	977.37	9.38	5500.00	.60	4.13	.00	.00	.00
	21.742	1386.40	1394.19	9976.13	10090.94	114.82	7.79	3200.00	.72	1.30	.00	.00	.00
	21.742	1386.40	1394.73	9751.21	10307.92	237.54	8.33	4800.00	1.23	1.46	.00	.00	.00
*	21.742	1386.40	1395.18	9744.71	10353.48	525.85	8.78	5500.00	1.19	1.80	.00	.00	.00
	21.840	1391.10	1396.67	9867.76	10106.92	209.51	5.57	3200.00	.84	2.48	.00	.00	.00
	21.840	1391.10	1397.80	9858.13	10282.97	424.71	6.70	4800.00	.75	3.08	.00	.00	.00
	21.840	1391.10	1398.04	9857.22	10295.09	437.88	6.94	5500.00	.80	2.86	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	21.895	1391.90	1398.92	9837.26	10404.08	513.02	7.02	3200.00	.76	2.26	.00	.00	.00
*	21.895	1391.90	1399.47	9835.42	10426.93	591.51	7.57	4800.00	.79	1.67	.00	.00	.00
*	21.895	1391.90	1399.67	9834.78	10431.00	596.22	7.77	5500.00	.80	1.63	.00	.00	.00
*	21.933	1396.80	1400.09	9543.87	10285.02	741.15	3.29	3200.00	.10	1.17	.00	.00	.00
*	21.933	1396.80	1400.66	9359.56	10285.11	925.55	3.86	4800.00	.12	1.19	.00	.00	.00
*	21.933	1396.80	1400.86	9314.75	10285.14	970.39	4.06	5500.00	.13	1.19	.00	.00	.00
*	21.953	1394.00	1400.04	9655.48	10043.47	254.22	6.04	3200.00	.94	-.06	.00	.00	.00
*	21.953	1394.00	1400.79	9454.94	10050.42	390.64	6.79	4800.00	.96	.13	.00	.00	.00
*	21.953	1394.00	1401.06	9424.44	10052.98	459.91	7.06	5500.00	.94	.20	.00	.00	.00
*	22.065	1395.80	1403.27	9257.24	10046.04	659.32	7.47	3200.00	.14	3.23	.00	.00	.00
*	22.065	1395.80	1403.87	9251.27	10048.73	751.58	8.07	4800.00	.16	3.08	.00	.00	.00
*	22.065	1395.80	1404.08	9242.08	10049.66	777.84	8.28	5500.00	.17	3.02	.00	.00	.00
	22.165	1395.00	1404.37	9164.20	10030.25	609.27	9.37	3200.00	.18	1.11	.00	.00	.00
	22.165	1395.00	1405.02	9149.45	10046.39	742.21	10.02	4800.00	.21	1.14	.00	.00	.00
	22.165	1395.00	1405.25	9137.48	10060.52	828.27	10.25	5500.00	.21	1.17	.00	.00	.00
*	22.273	1399.40	1405.74	9326.99	10025.21	259.54	6.34	3200.00	.53	1.37	.00	.00	.00
*	22.273	1399.40	1406.42	9323.63	10026.85	366.19	7.02	4800.00	.67	1.41	.00	.00	.00
*	22.273	1399.40	1406.66	9320.96	10027.44	419.21	7.26	5500.00	.71	1.42	.00	.00	.00
*	22.410	1404.00	1411.82	9948.53	10030.55	82.02	7.82	3200.00	2.09	6.08	.00	.00	.00
*	22.410	1404.00	1413.70	9858.52	10051.87	163.40	9.70	4800.00	1.81	7.27	.00	.00	.00
*	22.410	1404.00	1414.22	9854.46	10066.88	193.61	10.22	5500.00	1.76	7.56	.00	.00	.00
*	22.483	1405.50	1414.47	9890.43	10195.24	304.81	8.97	3200.00	.09	2.65	.00	.00	.00
*	22.483	1405.50	1415.99	9878.58	10198.87	320.28	10.49	4800.00	.11	2.29	.00	.00	.00
*	22.483	1405.50	1416.46	9874.91	10199.99	325.09	10.96	5500.00	.12	2.23	.00	.00	.00
*	22.578	1406.70	1414.55	9971.10	10061.00	89.91	7.85	3200.00	.58	.09	.00	.00	.00
*	22.578	1406.70	1415.93	9969.01	10063.54	94.53	9.23	4800.00	.85	-.05	.00	.00	.00
*	22.578	1406.70	1416.34	9968.38	10064.20	95.82	9.65	5500.00	.99	-.11	.00	.00	.00
*	22.675	1409.70	1415.85	9745.89	10024.49	278.60	6.15	3200.00	.10	1.30	.00	.00	.00
*	22.675	1409.70	1417.44	9741.91	10027.37	285.46	7.74	4800.00	.12	1.51	.00	.00	.00
*	22.675	1409.70	1418.01	9740.49	10028.39	287.90	8.31	5500.00	.14	1.66	.00	.00	.00
*	22.794	1410.70	1416.63	9987.18	10178.63	191.46	5.93	3200.00	.35	.78	.00	.00	.00
*	22.794	1410.70	1418.02	9981.78	10192.47	210.68	7.32	4800.00	.40	.58	.00	.00	.00
*	22.794	1410.70	1418.55	9978.95	10194.69	215.74	7.85	5500.00	.42	.55	.00	.00	.00
	22.880	1413.00	1418.66	9957.40	10162.87	205.47	5.66	3200.00	.42	2.03	.00	.00	.00
	22.880	1413.00	1419.64	9953.68	10163.60	209.92	6.64	4800.00	.54	1.61	.00	.00	.00
	22.880	1413.00	1420.05	9952.13	10163.91	211.78	7.05	5500.00	.58	1.49	.00	.00	.00
	22.990	1417.90	1422.66	9765.15	10024.35	259.20	4.76	3200.00	.42	4.00	.00	.00	.00
	22.990	1417.90	1423.36	9757.26	10025.62	268.36	5.46	4800.00	.57	3.72	.00	.00	.00
	22.990	1417.90	1423.63	9754.06	10026.14	272.08	5.73	5500.00	.62	3.59	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	23.097	1425.10	1428.86	9961.15	10113.42	152.27	3.76	3200.00	1.09	6.19	.00	.00	.00
*	23.097	1425.10	1429.55	9902.53	10116.10	178.52	4.45	4800.00	1.49	6.19	.00	.00	.00
*	23.097	1425.10	1429.89	9899.14	10117.43	186.86	4.79	5500.00	1.57	6.25	.00	.00	.00
*	23.168	1428.90	1431.93	9651.66	10179.80	528.14	3.03	3200.00	.14	3.07	.00	.00	.00
*	23.168	1428.90	1432.74	9617.30	10204.26	586.96	3.84	4800.00	.16	3.20	.00	.00	.00
*	23.168	1428.90	1433.05	9604.29	10213.52	609.23	4.15	5500.00	.17	3.16	.00	.00	.00
*	23.253	1425.20	1434.24	9978.98	10022.72	43.74	9.04	3200.00	2.79	2.31	.00	.00	.00
*	23.253	1425.20	1434.37	9978.75	10022.92	44.18	9.17	3300.00	2.83	1.62	.00	.00	.00
*	23.253	1425.20	1434.53	9978.44	10023.18	44.74	9.33	3400.00	2.83	1.48	.00	.00	.00
*	23.334	1432.60	1440.16	9969.54	10035.50	65.96	7.56	3200.00	1.39	5.93	.00	.00	.00
*	23.334	1432.60	1440.29	9969.28	10035.77	66.49	7.69	3300.00	1.41	5.92	.00	.00	.00
	23.334	1432.60	1440.39	9969.06	10035.98	66.92	7.79	3400.00	1.43	5.86	.00	.00	.00
	23.416	1436.50	1443.61	9981.30	10039.73	58.43	7.11	3200.00	1.70	3.45	.00	.00	.00
	23.416	1436.50	1443.72	9981.12	10039.89	58.77	7.22	3300.00	1.74	3.43	.00	.00	.00
	23.416	1436.50	1443.82	9980.93	10040.07	59.14	7.32	3400.00	1.77	3.43	.00	.00	.00
	23.514	1439.60	1447.86	9977.89	10034.67	56.79	8.26	3200.00	1.30	4.24	.00	.00	.00
	23.514	1439.60	1447.98	9977.71	10034.85	57.14	8.38	3300.00	1.32	4.27	.00	.00	.00
	23.514	1439.60	1448.11	9977.54	10035.01	57.47	8.51	3400.00	1.35	4.28	.00	.00	.00
	23.544	1441.40	1448.67	9979.24	10033.37	54.12	7.27	3200.00	1.82	.81	.00	.00	.00
	23.544	1441.40	1448.79	9979.07	10033.53	54.46	7.39	3300.00	1.85	.81	.00	.00	.00
	23.544	1441.40	1448.91	9978.90	10033.70	54.80	7.51	3400.00	1.88	.80	.00	.00	.00
*	23.555	1442.00	1452.55	9974.72	10037.74	63.01	10.55	3200.00	.67	3.88	3048.27	1449.00	1445.00
*	23.555	1442.00	1452.59	9974.66	10037.80	63.14	10.59	3300.00	.70	3.80	3148.98	1449.00	1445.00
*	23.555	1442.00	1452.64	9974.59	10037.86	63.27	10.64	3400.00	.74	3.72	3249.50	1449.00	1445.00
	23.591	1444.20	1453.01	9968.00	10043.18	75.18	8.81	3200.00	.73	.47	.00	.00	.00
	23.591	1444.20	1453.08	9968.00	10043.34	75.34	8.88	3300.00	.75	.49	.00	.00	.00
	23.591	1444.20	1453.15	9968.00	10043.49	75.49	8.95	3400.00	.78	.51	.00	.00	.00
*	23.691	1446.40	1454.93	9970.88	10035.27	64.39	8.53	3200.00	1.27	1.92	.00	.00	.00
*	23.691	1446.40	1455.04	9970.63	10035.50	64.87	8.64	3300.00	1.30	1.96	.00	.00	.00
	23.691	1446.40	1455.15	9970.39	10035.72	65.33	8.75	3400.00	1.33	2.01	.00	.00	.00
*	23.815	1449.70	1458.45	9957.01	10037.00	79.99	8.75	3150.00	.68	3.52	.00	.00	.00
*	23.815	1449.70	1458.81	9952.12	10037.00	84.88	9.11	3950.00	.95	3.77	.00	.00	.00
*	23.815	1449.70	1459.01	9951.00	10037.00	86.00	9.31	4350.00	1.08	3.86	.00	.00	.00
	23.912	1447.90	1459.83	9969.35	10039.97	70.62	11.93	3100.00	.53	1.38	.00	.00	.00
	23.912	1447.90	1460.65	9968.05	10042.28	74.23	12.75	4600.00	.95	1.83	.00	.00	.00
*	23.912	1447.90	1461.04	9967.41	10043.00	75.59	13.14	5300.00	1.14	2.03	.00	.00	.00
	23.989	1449.70	1460.64	9949.88	10040.40	90.53	10.94	3100.00	.35	.81	.00	.00	.00
	23.989	1449.70	1461.99	9946.38	10042.65	96.26	12.29	4600.00	.55	1.34	.00	.00	.00
*	23.989	1449.70	1462.61	9944.77	10043.68	98.91	12.91	5300.00	.63	1.56	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	24.086	1453.60	1461.28	9972.00	10044.00	72.00	7.68	3100.00	.49	.64	.00	.00	.00
	24.086	1453.60	1462.78	9972.00	10044.00	72.00	9.18	4600.00	.75	.79	.00	.00	.00
	24.086	1453.60	1463.44	9972.00	10044.00	72.00	9.84	5300.00	.87	.83	.00	.00	.00
	24.096	1453.60	1461.31	9972.00	10044.00	72.00	7.71	3100.00	.48	.03	.00	1466.70	1462.20
	24.096	1453.60	1463.62	9972.00	10044.00	72.00	10.02	4600.00	.63	.84	.00	1466.70	1462.20
	24.096	1453.60	1464.71	9972.00	10044.00	72.00	11.11	5300.00	.68	1.27	.00	1466.70	1462.20
	24.106	1454.20	1461.54	9959.88	10088.18	128.30	7.34	3100.00	.37	.23	.00	.00	.00
	24.106	1454.20	1464.05	9955.10	10110.61	155.51	9.85	4600.00	.35	.42	.00	.00	.00
	24.106	1454.20	1465.21	9952.58	10119.36	166.78	11.01	5300.00	.34	.50	.00	.00	.00
*	24.195	1453.60	1462.22	9947.06	10116.42	169.36	8.62	3100.00	.13	.67	.00	.00	.00
*	24.195	1453.60	1464.58	9942.99	10130.93	187.94	10.98	4600.00	.15	.54	.00	.00	.00
*	24.195	1453.60	1465.69	9941.09	10137.67	196.58	12.09	5300.00	.15	.48	.00	.00	.00
*	24.322	1451.60	1462.45	9873.45	10198.86	325.41	10.85	3100.00	.03	.23	.00	.00	.00
*	24.322	1451.60	1464.81	9864.43	10217.04	352.61	13.21	4600.00	.04	.23	.00	.00	.00
*	24.322	1451.60	1465.91	9858.94	10225.25	366.31	14.31	5300.00	.04	.22	.00	.00	.00
*	24.444	1457.30	1462.48	9931.75	10189.31	257.56	5.18	3100.00	.24	.03	.00	.00	.00
*	24.444	1457.30	1464.86	9928.21	10199.47	271.26	7.56	4600.00	.16	.05	.00	.00	.00
*	24.444	1457.30	1465.95	9926.47	10204.13	277.67	8.65	5300.00	.15	.04	.00	.00	.00
*	24.542	1459.80	1464.84	9911.54	10175.58	164.00	5.04	3100.00	.78	2.36	.00	.00	.00
*	24.542	1459.80	1465.49	9909.68	10178.07	171.48	5.69	4600.00	1.11	.63	.00	.00	.00
*	24.542	1459.80	1466.33	9907.26	10181.31	181.23	6.53	5300.00	.92	.37	.00	.00	.00
	24.635	1466.80	1471.20	9923.01	10091.34	168.33	4.40	3100.00	.80	6.36	.00	.00	.00
	24.635	1466.80	1472.13	9909.89	10106.47	196.58	5.33	4600.00	.91	6.63	.00	.00	.00
	24.635	1466.80	1472.05	9911.01	10105.18	194.18	5.25	5300.00	1.28	5.72	.00	.00	.00
*	24.738	1472.00	1475.73	9944.23	10336.93	337.03	3.73	3000.00	.22	4.53	.00	.00	.00
*	24.738	1472.00	1476.46	9939.08	10339.29	347.65	4.46	4500.00	.29	4.33	.00	.00	.00
*	24.738	1472.00	1476.89	9936.06	10340.68	355.18	4.89	5200.00	.29	4.84	.00	.00	.00
*	24.838	1474.70	1479.96	9970.81	10632.62	645.33	5.26	3000.00	.43	4.23	.00	.00	.00
*	24.838	1474.70	1480.22	9969.07	10633.33	648.99	5.52	4500.00	.54	3.76	.00	.00	.00
*	24.838	1474.70	1480.33	9968.35	10633.62	650.49	5.63	5200.00	.60	3.44	.00	.00	.00
*	24.943	1477.70	1482.75	9805.85	10616.31	787.84	5.05	3000.00	.08	2.79	.00	.00	.00
*	24.943	1477.70	1483.24	9802.57	10618.05	796.00	5.54	4500.00	.11	3.02	.00	.00	.00
*	24.943	1477.70	1483.44	9801.22	10618.77	799.36	5.74	5200.00	.12	3.12	.00	.00	.00
*	25.048	1483.70	1486.83	9706.71	10479.74	544.07	3.13	3000.00	.51	4.08	.00	.00	.00
*	25.048	1483.70	1487.15	9706.03	10480.82	553.54	3.45	4500.00	.64	3.90	.00	.00	.00
*	25.048	1483.70	1487.27	9705.76	10481.24	557.24	3.57	5200.00	.71	3.83	.00	.00	.00
*	25.163	1486.00	1491.33	9932.96	10295.98	348.02	5.33	2900.00	.22	4.50	.00	.00	.00
*	25.163	1486.00	1491.95	9925.17	10297.31	363.56	5.95	4300.00	.29	4.81	.00	.00	.00
*	25.163	1486.00	1492.19	9922.08	10297.84	369.01	6.19	4900.00	.31	4.92	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	25.262	1484.00	1493.17	9503.87	10021.52	514.25	9.17	2900.00	.14	1.84	.00	.00	.00
	25.262	1484.00	1493.78	9502.30	10022.95	520.65	9.78	4300.00	.17	1.83	.00	.00	.00
	25.262	1484.00	1494.01	9501.71	10023.49	521.78	10.01	4900.00	.19	1.82	.00	.00	.00
*	25.374	1493.30	1499.32	9656.07	10023.00	366.94	6.02	2900.00	.09	6.15	.00	.00	.00
*	25.374	1493.30	1499.30	9656.10	10023.00	366.91	6.00	4300.00	.20	5.52	.00	.00	.00
*	25.374	1493.30	1499.37	9655.94	10023.00	367.07	6.07	4900.00	.26	5.35	.00	.00	.00
*	25.434	1495.80	1502.13	9975.52	10031.90	56.38	6.33	2900.00	2.20	2.81	.00	.00	.00
*	25.434	1495.80	1503.57	9971.60	10035.06	63.46	7.77	4300.00	2.64	4.27	.00	.00	.00
*	25.434	1495.80	1503.97	9970.53	10035.93	65.40	8.17	4900.00	2.95	4.60	.00	.00	.00
*	25.500	1497.70	1505.25	9937.98	10073.82	135.84	7.55	2900.00	.30	3.12	.00	.00	.00
*	25.500	1497.70	1507.04	9926.42	10088.57	162.15	9.34	4300.00	.33	3.47	.00	.00	.00
*	25.500	1497.70	1507.74	9923.52	10094.35	170.83	10.04	4900.00	.34	3.77	.00	.00	.00
*	25.523	1496.00	1505.54	9934.92	10081.42	146.50	9.54	2900.00	.13	.29	.00	.00	.00
*	25.523	1496.00	1507.31	9931.38	10088.79	157.40	11.31	4300.00	.18	.27	.00	.00	.00
*	25.523	1496.00	1507.99	9930.02	10091.63	161.62	11.99	4900.00	.20	.25	.00	.00	.00
*	25.534	1505.54	1509.21	9963.61	10036.39	72.78	3.67	2900.00	1.85	3.67	.00	.00	.00
*	25.534	1505.54	1510.33	9963.49	10036.51	73.01	4.79	4300.00	2.38	3.02	.00	.00	.00
*	25.534	1505.54	1510.75	9963.45	10036.55	73.10	5.21	4900.00	2.61	2.76	.00	.00	.00
*	25.551	1505.54	1510.36	9963.49	10036.51	73.02	4.82	2900.00	1.06	1.15	.00	.00	.00
*	25.551	1505.54	1511.68	9963.35	10036.65	73.30	6.14	4300.00	1.44	1.36	.00	.00	.00
*	25.551	1505.54	1512.21	9963.29	10036.71	73.41	6.67	4900.00	1.58	1.46	.00	.00	.00
	25.557	1505.54	1510.18	9963.67	10036.33	72.67	4.64	2900.00	1.51	-.18	.00	.00	.00
	25.557	1505.54	1511.52	9960.97	10039.03	78.05	5.98	4300.00	1.84	-.16	.00	.00	.00
	25.557	1505.54	1512.08	9959.87	10040.13	80.27	6.54	4900.00	1.93	-.14	.00	.00	.00
	25.561	1505.60	1511.98	9955.23	10061.39	106.16	6.38	1700.00	.14	1.79	.00	.00	.00
	25.561	1505.60	1513.71	9950.95	10065.48	114.53	8.11	2500.00	.17	2.18	.00	.00	.00
	25.561	1505.60	1514.36	9949.33	10067.02	117.68	8.76	2900.00	.19	2.29	.00	.00	.00
*	25.680	1506.50	1512.53	9662.51	10301.49	427.49	6.03	1600.00	.09	.56	.00	.00	.00
	25.680	1506.50	1514.10	9657.12	10304.15	542.65	7.60	2300.00	.04	.39	.00	.00	.00
*	25.680	1506.50	1514.74	9471.45	10305.23	663.75	8.24	2700.00	.04	.38	.00	.00	.00
*	25.786	1510.70	1515.82	9982.80	10442.17	294.04	5.12	1500.00	.50	3.28	.00	.00	.00
*	25.786	1510.70	1516.15	9982.28	10442.63	332.39	5.45	2200.00	.64	2.05	.00	.00	.00
*	25.786	1510.70	1516.32	9982.01	10442.86	351.98	5.62	2500.00	.64	1.58	.00	.00	.00
	25.947	1514.40	1520.17	9963.61	10121.56	130.64	5.77	1400.00	.50	4.35	.00	.00	.00
	25.947	1514.40	1520.90	9959.68	10122.93	163.25	6.50	2000.00	.49	4.75	.00	.00	.00
	25.947	1514.40	1521.07	9958.72	10123.26	164.54	6.67	2300.00	.56	4.75	.00	.00	.00
	26.058	1516.20	1522.63	9877.95	10022.10	144.14	6.43	1300.00	.38	2.46	.00	.00	.00
	26.058	1516.20	1523.22	9849.16	10022.91	173.75	7.02	1900.00	.47	2.32	.00	.00	.00
	26.058	1516.20	1523.49	9841.26	10023.28	182.03	7.29	2200.00	.49	2.42	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	26.152	1520.00	1524.06	9962.94	10059.28	96.34	4.06	1200.00	.30	1.43	.00	.00	.00
	26.152	1520.00	1524.72	9959.49	10062.62	103.13	4.72	1700.00	.39	1.50	.00	.00	.00
	26.152	1520.00	1524.99	9958.10	10063.97	105.87	4.99	2000.00	.46	1.50	.00	.00	.00
*	26.265	1522.00	1526.91	9979.26	10040.73	61.47	4.91	1100.00	1.19	2.85	.00	.00	.00
*	26.265	1522.00	1527.77	9974.92	10065.29	90.37	5.77	1600.00	1.21	3.04	.00	.00	.00
*	26.265	1522.00	1528.15	9972.98	10076.25	103.26	6.15	1900.00	1.24	3.15	.00	.00	.00
*	26.372	1523.80	1530.18	9972.67	10056.77	84.09	6.38	1000.00	.22	3.27	.00	.00	.00
*	26.372	1523.80	1530.99	9968.86	10061.99	93.13	7.19	1500.00	.31	3.22	.00	.00	.00
*	26.372	1523.80	1531.35	9967.15	10064.32	97.17	7.55	1700.00	.32	3.20	.00	.00	.00
*	26.492	1525.70	1530.88	9891.72	10063.75	172.04	5.18	900.00	.05	.71	.00	.00	.00
*	26.492	1525.70	1531.77	9887.00	10066.99	179.99	6.07	1300.00	.06	.78	.00	.00	.00
*	26.492	1525.70	1532.15	9885.25	10068.38	183.14	6.45	1600.00	.08	.80	.00	.00	.00
*	26.582	1524.10	1530.95	9485.48	10184.17	698.68	6.85	900.00	.00	.07	.00	.00	.00
*	26.582	1524.10	1531.85	9475.04	10187.59	712.55	7.75	1300.00	.00	.08	.00	.00	.00
*	26.582	1524.10	1532.24	9470.59	10189.09	718.50	8.14	1600.00	.00	.10	.00	.00	.00
*	26.673	1531.80	1533.56	9961.56	10272.13	213.92	1.76	700.00	.40	2.61	.00	.00	.00
*	26.673	1531.80	1533.85	9958.95	10278.05	232.65	2.05	1100.00	.49	2.00	.00	.00	.00
*	26.673	1531.80	1533.98	9957.83	10280.58	239.21	2.18	1300.00	.53	1.73	.00	.00	.00
*	26.784	1542.70	1545.62	9981.56	10046.10	64.54	2.92	700.00	.78	12.06	.00	.00	.00
*	26.784	1542.70	1546.05	9981.06	10048.26	67.21	3.35	1000.00	.96	12.20	.00	.00	.00
*	26.784	1542.70	1546.18	9980.90	10048.91	68.01	3.48	1100.00	1.02	12.20	.00	.00	.00
*	26.883	1540.10	1546.49	9767.79	10195.03	427.23	6.39	600.00	.00	.87	.00	.00	.00
*	26.883	1540.10	1547.12	9765.95	10198.53	432.58	7.02	900.00	.00	1.07	.00	.00	.00
*	26.883	1540.10	1547.31	9765.39	10199.60	434.21	7.21	1000.00	.00	1.13	.00	.00	.00
*	26.984	1540.50	1546.49	9937.16	10335.01	336.17	5.99	400.00	.00	.00	.00	.00	.00
*	26.984	1540.50	1547.12	9933.43	10336.08	361.91	6.62	700.00	.00	.00	.00	.00	.00
*	26.984	1540.50	1547.31	9932.30	10336.41	371.13	6.81	900.00	.00	.00	.00	.00	.00
*	27.060	1554.10	1557.81	9988.20	10010.05	21.85	3.71	400.00	1.11	11.32	.00	.00	.00
*	27.060	1554.10	1558.88	9985.25	10012.07	26.81	4.78	700.00	1.41	11.76	.00	.00	.00
*	27.060	1554.10	1559.46	9983.67	10013.14	29.47	5.36	900.00	1.56	12.15	.00	.00	.00
*	27.166	1555.20	1560.06	9985.26	10016.39	31.13	4.86	300.00	.12	2.25	.00	.00	.00
*	27.166	1555.20	1561.46	9982.48	10018.80	36.32	6.26	500.00	.16	2.58	.00	.00	.00
*	27.166	1555.20	1562.18	9981.04	10020.03	38.99	6.98	600.00	.17	2.72	.00	.00	.00
	27.294	1556.00	1560.41	9976.02	10017.26	41.23	4.41	200.00	.03	.35	.00	.00	.00
	27.294	1556.00	1561.83	9973.35	10020.55	47.20	5.83	300.00	.04	.37	.00	.00	.00
	27.294	1556.00	1562.54	9972.01	10022.21	50.20	6.54	400.00	.05	.36	.00	.00	.00
	-19.560	1315.60	1325.37	9935.89	10056.22	120.33	9.77	8400.00	1.21	-235.04	.00	.00	.00
	-19.560	1315.60	1327.42	9932.63	10059.65	127.02	11.82	12700.00	1.72	-234.41	.00	.00	.00
	-19.560	1315.60	1328.21	9931.37	10060.99	129.62	12.61	14600.00	1.93	-234.33	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	.029	1319.60	1327.03	9951.25	10039.75	88.50	7.43	5500.00	2.49	1.66	.00	.00	.00
*	.029	1319.60	1328.77	9944.73	10057.96	113.24	9.17	8300.00	2.99	1.36	.00	.00	.00
*	.029	1319.60	1329.35	9942.56	10073.06	130.50	9.75	9500.00	3.24	1.14	.00	.00	.00
*	.112	1321.50	1329.98	9901.90	10079.11	177.21	8.48	5500.00	.40	2.95	.00	.00	.00
*	.112	1321.50	1332.13	9813.37	10088.87	275.50	10.63	8300.00	.48	3.36	.00	.00	.00
*	.112	1321.50	1332.94	9762.30	10092.55	330.25	11.44	9500.00	.50	3.59	.00	.00	.00
	.198	1323.80	1330.46	9909.30	10099.41	190.10	6.66	5500.00	.56	.47	.00	.00	.00
	.198	1323.80	1332.54	9891.52	10107.48	215.96	8.74	8300.00	.60	.41	.00	.00	.00
	.198	1323.80	1333.31	9860.87	10110.44	249.57	9.51	9500.00	.63	.37	.00	.00	.00
*	.288	1325.70	1331.47	9915.59	10043.28	127.69	5.77	5500.00	1.95	1.02	.00	.00	.00
*	.288	1325.70	1332.81	9906.57	10051.04	144.46	7.11	8300.00	2.37	.26	.00	.00	.00
*	.288	1325.70	1333.31	9903.19	10053.94	150.75	7.61	9500.00	2.52	.00	.00	.00	.00
*	.398	1328.80	1335.21	9923.08	10085.28	162.20	6.41	5500.00	.76	3.74	.00	.00	.00
*	.398	1328.80	1336.71	9915.38	10091.84	176.46	7.91	8300.00	.99	3.90	.00	.00	.00
*	.398	1328.80	1337.27	9912.48	10094.30	181.83	8.47	9500.00	1.08	3.96	.00	.00	.00
*	.482	1331.20	1338.82	9946.11	10044.26	98.15	7.62	5500.00	2.57	3.61	.00	.00	.00
*	.482	1331.20	1342.02	9903.89	10734.11	830.22	10.82	8300.00	1.11	5.31	.00	.00	.00
*	.482	1331.20	1342.35	9903.83	10793.57	889.74	11.15	9500.00	1.05	5.09	.00	.00	.00
*	.575	1331.50	1342.69	9781.88	10352.69	440.28	11.19	5500.00	.54	3.87	.00	.00	.00
	.575	1331.50	1343.60	9777.85	10472.96	695.11	12.10	8300.00	.64	1.57	.00	.00	.00
	.575	1331.50	1343.82	9777.80	10508.02	730.21	12.32	9500.00	.71	1.47	.00	.00	.00
	.697	1334.00	1343.81	9861.17	10061.40	200.23	9.81	5500.00	.58	1.12	.00	.00	.00
	.697	1334.00	1344.76	9857.23	10085.71	228.48	10.76	8200.00	.88	1.17	.00	.00	.00
	.697	1334.00	1345.06	9856.01	10093.21	237.20	11.06	9400.00	1.04	1.24	.00	.00	.00
*	.826	1338.80	1346.37	9894.31	10037.53	143.22	7.57	5500.00	1.97	2.55	.00	.00	.00
*	.826	1338.80	1347.79	9858.07	10043.19	185.12	8.99	8200.00	2.15	3.02	.00	.00	.00
*	.826	1338.80	1348.29	9845.35	10045.20	199.85	9.49	9400.00	2.23	3.24	.00	.00	.00
*	.945	1340.40	1350.35	9737.76	10110.46	372.70	9.95	5500.00	.47	3.98	.00	.00	.00
*	.945	1340.40	1351.63	9708.02	10165.03	457.00	11.23	8200.00	.51	3.84	.00	.00	.00
*	.945	1340.40	1352.12	9624.18	10185.88	561.70	11.72	9400.00	.52	3.82	.00	.00	.00
	1.035	1341.90	1351.39	9709.52	10047.90	287.56	9.49	5500.00	.57	1.04	.00	.00	.00
	1.035	1341.90	1352.51	9692.61	10109.46	416.85	10.61	8200.00	.69	.88	.00	.00	.00
	1.035	1341.90	1352.93	9686.18	10146.95	460.77	11.03	9400.00	.72	.82	.00	.00	.00
	1.121	1343.60	1352.67	9878.26	10065.26	187.00	9.07	5500.00	.45	1.28	.00	.00	.00
	1.121	1343.60	1353.77	9873.41	10073.40	199.99	10.17	8200.00	.69	1.26	.00	.00	.00
	1.121	1343.60	1354.16	9871.67	10106.95	235.28	10.56	9400.00	.80	1.23	.00	.00	.00
*	1.204	1344.30	1353.42	9953.47	10052.97	99.50	9.12	5500.00	1.82	.76	.00	.00	.00
*	1.204	1344.30	1354.91	9950.41	10169.88	219.47	10.61	8200.00	2.06	1.15	.00	.00	.00
*	1.204	1344.30	1355.42	9930.00	10173.36	226.07	11.12	9400.00	2.09	1.26	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	1.315	1348.80	1357.24	9908.22	10222.40	246.61	8.44	5300.00	.30	3.82	.00	.00	.00
*	1.315	1348.80	1358.82	9905.51	10234.09	326.17	10.02	7900.00	.36	3.90	.00	.00	.00
*	1.315	1348.80	1359.33	9904.63	10236.67	332.04	10.53	9100.00	.39	3.91	.00	.00	.00
*	1.420	1354.00	1359.30	9702.75	10042.50	339.75	5.30	2200.00	.48	2.06	.00	.00	.00
*	1.420	1354.00	1360.70	9592.51	10783.50	903.99	6.70	5900.00	.51	1.88	.00	.00	.00
*	1.420	1354.00	1361.00	9555.00	10785.00	970.00	7.00	8400.00	.67	1.67	.00	.00	.00

CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	15.015	1216.00	-.17	1217.43	109.99	.00	10299.96	.04	.00	.00	9945.00	10055.00	.00
	15.015	1219.08	.00	1221.10	110.02	.00	16099.92	.09	.00	.00	9945.00	10055.00	.00
	15.015	1220.40	.00	1222.59	110.03	.00	18499.89	.11	.00	.00	9945.00	10055.00	.00
	15.109	1216.25	.00	1217.68	109.99	.00	10299.96	.04	.00	.00	9945.00	10055.00	.00
	15.109	1219.33	.00	1221.35	110.02	.00	16099.92	.09	.00	.00	9945.00	10055.00	.00
	15.109	1220.64	.00	1222.84	110.03	.00	18499.89	.11	.00	.00	9945.00	10055.00	.00
	15.204	1216.50	.00	1217.93	109.99	.00	10299.96	.04	.00	.00	9945.00	10055.00	.00
	15.204	1219.59	.00	1221.61	110.02	.00	16099.92	.09	.00	.00	9945.00	10055.00	.00
	15.204	1220.89	.00	1223.09	110.03	.00	18499.89	.11	.00	.00	9945.00	10055.00	.00
*	15.310	1216.38	.00	1221.02	64.98	.00	10300.00	.00	.00	.00	9967.50	10032.60	.00
*	15.310	1219.61	.00	1225.81	65.01	.00	16100.00	.00	.00	.00	9967.50	10032.60	.00
*	15.310	1220.82	.00	1227.61	65.02	.00	18500.00	.00	.00	.00	9967.50	10032.60	.00
*	15.454	1219.56	.00	1222.28	65.00	.00	10300.00	.00	.00	.00	9967.50	10032.60	.00
*	15.454	1223.31	.00	1227.17	65.04	.00	16100.00	.00	.00	.00	9967.50	10032.60	.00
	15.454	1224.72	.00	1229.01	65.05	.00	18500.00	.00	.00	.00	9967.50	10032.60	.00
*	15.530	1234.42	.00	1237.79	104.79	.00	10300.00	.00	.00	.00	9941.50	10060.50	.00
*	15.530	1236.90	.00	1241.17	114.69	.00	16100.00	.00	.00	.00	9941.50	10060.50	.00
*	15.530	1237.78	.00	1242.39	117.65	.00	18500.00	.00	.00	.00	9941.50	10060.50	.00
*	15.680	1237.77	.00	1241.14	104.80	.00	10300.00	.00	.00	.00	9941.50	10060.50	.00
*	15.680	1240.25	.00	1244.52	114.70	.00	16100.00	.00	.00	.00	9941.50	10060.50	.00
*	15.680	1241.13	.00	1245.74	117.67	.00	18500.00	.00	.00	.00	9941.50	10060.50	.00
*	15.878	1241.67	.00	1244.88	111.87	.00	10300.00	.00	.00	.00	9938.00	10062.00	.00
*	15.878	1244.03	.00	1248.12	121.29	.00	16100.00	.00	.00	.00	9938.00	10062.00	.00
*	15.878	1244.83	.00	1249.30	124.00	.00	18500.00	.00	.00	.00	9938.00	10062.00	.00
*	15.920	1242.61	.00	1245.85	111.74	.00	10300.00	.00	.00	.00	9938.00	10062.00	.00
*	15.920	1244.97	.00	1249.09	121.18	.00	16100.00	.00	.00	.00	9938.00	10062.00	.00
*	15.920	1245.81	.00	1250.27	124.00	.00	18500.00	.00	.00	.00	9938.00	10062.00	.00
*	15.940	1245.02	.00	1246.85	119.85	.00	10300.00	.00	.00	.00	9938.00	10062.00	.00
*	15.940	1247.54	.00	1250.29	124.00	.00	16100.00	.00	.00	.00	9938.00	10062.00	.00
*	15.940	1249.00	.00	1251.56	124.00	.00	18500.00	.00	.00	.00	9938.00	10062.00	.00
*	16.023	1247.30	.00	1251.05	89.17	.00	10300.00	.00	.00	.00	9946.00	10053.00	.00
*	16.023	1250.09	.00	1254.76	100.88	.00	16100.00	.00	.00	.00	9946.00	10053.00	.00
*	16.023	1251.08	.00	1256.09	104.77	.00	18500.00	.00	.00	.00	9946.00	10053.00	.00
*	16.148	1250.08	.00	1253.84	89.13	.00	10300.00	.00	.00	.00	9946.00	10053.00	.00
*	16.148	1252.90	.00	1257.55	100.94	.00	16100.00	.00	.00	.00	9946.00	10053.00	.00
*	16.148	1253.91	.00	1258.88	104.87	.00	18500.00	.00	.00	.00	9946.00	10053.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	16.264	1252.67	.00	1256.43	89.14	.00	10300.00	.00	.00	.00	9946.00	10053.00	.00
*	16.264	1255.49	.00	1260.14	100.93	.00	16100.00	.00	.00	.00	9946.00	10053.00	.00
*	16.264	1256.49	.00	1261.47	104.85	.00	18500.00	.00	.00	.00	9946.00	10053.00	.00
*	16.373	1255.10	.00	1258.86	89.14	.00	10300.00	.00	.00	.00	9946.00	10053.00	.00
*	16.373	1257.92	.00	1262.57	100.92	.00	16100.00	.00	.00	.00	9946.00	10053.00	.00
*	16.373	1258.92	.00	1263.90	104.85	.00	18500.00	.00	.00	.00	9946.00	10053.00	.00
*	16.481	1256.77	.00	1260.40	93.22	.00	10200.00	.00	.00	.00	9945.00	10052.00	.00
*	16.481	1259.37	.00	1263.86	103.87	.00	15700.00	.00	.00	.00	9945.00	10052.00	.00
*	16.481	1260.25	.00	1265.12	106.27	.00	18000.00	.00	.00	.00	9945.00	10052.00	.00
*	16.601	1259.45	.00	1263.07	93.27	.00	10200.00	.00	.00	.00	9945.00	10052.00	.00
*	16.601	1262.02	.00	1266.53	103.78	.00	15700.00	.00	.00	.00	9945.00	10052.00	.00
*	16.601	1263.05	.00	1267.79	121.32	.00	17990.06	9.94	.00	.00	9945.00	10052.00	.00
*	16.694	1260.89	.00	1264.36	99.79	.00	10200.00	.00	.00	.00	9945.00	10056.00	.00
*	16.694	1263.34	.00	1267.68	109.60	.00	15700.00	.00	.00	.00	9945.00	10056.00	.00
*	16.694	1264.17	.00	1268.90	110.80	.00	18000.00	.00	.00	.00	9945.00	10056.00	.00
*	16.823	1263.78	.00	1267.24	99.83	.00	10200.00	.00	.00	.00	9945.00	10056.00	.00
*	16.823	1266.23	.00	1270.56	109.63	.00	15700.00	.00	.00	.00	9945.00	10056.00	.00
*	16.823	1267.07	.00	1271.78	110.82	.00	18000.00	.00	.00	.00	9945.00	10056.00	.00
*	16.902	1264.92	.00	1268.25	105.14	.00	10200.00	.00	.00	.00	9940.00	10063.00	.00
*	16.902	1267.26	.00	1271.47	114.76	.00	15700.00	.00	.00	.00	9940.00	10063.00	.00
*	16.902	1268.15	.00	1272.65	118.40	.00	18000.00	.00	.00	.00	9940.00	10063.00	.00
*	16.970	1265.80	.00	1269.07	109.44	.00	10200.00	.00	.00	.00	9938.30	10064.70	.00
*	16.970	1268.07	.00	1272.21	118.53	.00	15700.00	.00	.00	.00	9938.30	10064.70	.00
*	16.970	1268.93	.00	1273.36	121.95	.00	18000.00	.00	.00	.00	9938.30	10064.70	.00
*	16.988	1268.17	.00	1270.01	118.32	.00	10200.00	.00	.00	.00	9938.30	10063.90	.00
*	16.988	1270.99	.00	1273.31	125.60	.00	15700.00	.00	.00	.00	9938.30	10063.90	.00
*	16.988	1272.03	.00	1274.54	125.60	.00	18000.00	.00	.00	.00	9938.30	10063.90	.00
	17.061	1267.84	.00	1270.75	110.86	.00	10200.00	.00	.00	.00	9938.30	10064.70	.00
	17.061	1270.65	.00	1273.97	122.62	.00	15700.00	.00	.00	.00	9938.30	10064.70	.00
	17.061	1271.71	.00	1275.17	126.24	.00	18000.00	.00	.00	.00	9938.30	10064.70	.00
*	17.206	1271.24	.00	1273.30	217.68	.00	10200.00	.00	.00	.00	9875.00	10125.00	.00
*	17.206	1272.63	.00	1275.32	223.44	.00	15700.00	.00	.00	.00	9875.00	10125.00	.00
	17.206	1273.99	.00	1276.23	229.08	.00	18000.00	.00	.00	.00	9875.00	10125.00	.00
*	17.360	1273.20	.00	1273.21	826.44	.00	10200.00	.00	.00	.00	9480.00	10427.00	.00
*	17.360	1275.20	.00	1275.22	846.90	.00	15700.00	.00	.00	.00	9480.00	10427.00	.00
*	17.360	1276.30	.00	1276.32	858.15	.00	18000.00	.00	.00	.00	9480.00	10427.00	.00
*	17.494	1279.31	.00	1281.07	264.95	.31	7980.95	918.74	.00	.00	9904.00	10062.00	.00
*	17.494	1280.62	.00	1282.55	364.90	57.98	11017.89	2324.13	.00	.00	9904.00	10062.00	.00
*	17.494	1281.04	.00	1283.09	400.58	110.32	12281.72	3007.96	.00	.00	9904.00	10062.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	17.588	1281.70	.00	1281.89	392.63	1586.90	7196.93	116.17	.00	.00	9982.00	10193.00	.00
*	17.588	1283.17	.00	1283.46	446.65	2820.94	10328.52	250.53	.00	.00	9982.00	10193.00	.00
*	17.588	1283.71	.00	1284.05	452.02	3418.15	11662.13	319.72	.00	.00	9982.00	10193.00	.00
*	17.662	1281.84	.00	1282.43	295.41	2008.56	6891.31	.13	.00	.00	9941.00	10130.00	.00
*	17.662	1283.31	.00	1284.10	312.72	3376.45	10000.74	22.80	.00	.00	9941.00	10130.00	.00
*	17.662	1283.85	.00	1284.73	320.00	3992.96	11359.49	47.55	.00	.00	9941.00	10130.00	.00
	17.783	1283.83	.00	1285.19	184.15	86.19	8602.63	211.18	.00	.00	9921.00	10064.00	.00
*	17.783	1285.10	.00	1287.11	197.12	221.55	12639.42	539.04	.00	.00	9921.00	10064.00	.00
*	17.783	1285.58	.00	1287.86	201.38	296.55	14380.97	722.48	.00	.00	9921.00	10064.00	.00
	17.932	1288.49	.00	1290.79	103.69	.00	8900.00	.00	.00	.00	9956.00	10066.00	.00
	17.932	1290.34	.00	1293.56	132.95	9.08	13390.70	.22	.00	.00	9956.00	10066.00	.00
	17.932	1290.98	.00	1294.60	164.22	59.93	15314.78	25.30	.00	.00	9956.00	10066.00	.00
*	18.042	1291.51	.00	1293.95	96.50	.00	8900.00	.00	.00	.00	9951.00	10049.00	.00
*	18.042	1293.57	.00	1296.94	96.70	.00	13400.00	.00	.00	.00	9951.00	10049.00	.00
*	18.042	1294.31	.00	1298.14	96.76	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
	18.061	1292.13	.00	1294.69	96.48	.00	8900.00	.00	.00	.00	9951.00	10049.00	.00
	18.061	1294.53	.00	1297.79	96.71	.00	13400.00	.00	.00	.00	9951.00	10049.00	.00
	18.061	1296.44	.00	1299.43	96.89	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
*	18.081	1294.88	.00	1295.45	168.31	382.10	7931.69	586.21	.00	.00	9942.00	10045.00	.00
*	18.081	1298.00	.00	1298.71	193.98	873.79	11306.55	1219.65	.00	.00	9942.00	10045.00	.00
*	18.081	1299.54	.00	1300.24	229.58	1235.51	12528.72	1635.78	.00	.00	9942.00	10045.00	.00
	18.174	1295.45	.00	1295.82	295.78	745.68	8000.01	154.31	.00	.00	9919.00	10073.00	.00
	18.174	1298.68	.00	1299.03	471.77	1327.19	10725.30	1347.50	.00	.00	9919.00	10073.00	.00
	18.174	1300.22	.00	1300.52	597.84	1569.89	11409.13	2420.99	.00	.00	9919.00	10073.00	.00
	18.269	1295.67	.00	1296.35	182.66	990.15	7823.38	86.48	.00	.00	9942.00	10060.00	.00
*	18.269	1298.72	.00	1299.49	213.86	1832.43	11139.21	428.37	.00	.00	9942.00	10060.00	.00
*	18.269	1300.17	.00	1300.93	228.73	2261.70	12456.32	681.98	.00	.00	9942.00	10060.00	.00
	18.362	1296.26	.00	1297.13	172.34	313.15	8316.16	270.69	.00	.00	9942.00	10060.00	.00
	18.362	1299.15	.00	1300.14	199.28	807.78	11856.77	735.46	.00	.00	9942.00	10060.00	.00
	18.362	1300.54	.00	1301.51	212.97	1154.29	13225.19	1020.51	.00	.00	9942.00	10060.00	.00
*	18.445	1303.03	.00	1305.21	198.19	2519.30	3003.66	3377.03	.00	.00	9992.00	10005.00	.00
*	18.445	1304.77	.00	1306.91	298.93	4398.34	3571.38	5430.28	.00	.00	9992.00	10005.00	.00
*	18.445	1305.39	.00	1307.48	386.47	5165.58	3758.29	6476.14	.00	.00	9992.00	10005.00	.00
*	18.456	1305.97	.00	1306.61	420.45	2994.53	2115.19	3790.28	.00	.00	9992.00	10005.00	.00
*	18.456	1306.93	.00	1307.83	438.12	4508.47	2740.82	6150.70	.00	.00	9992.00	10005.00	.00
*	18.456	1307.31	.00	1308.31	443.73	5168.41	2970.57	7261.02	.00	.00	9992.00	10005.00	.00
*	18.545	1306.65	.00	1306.87	269.89	853.37	6903.71	1142.92	.00	.00	9951.00	10058.00	.00
*	18.545	1307.83	.00	1308.22	283.50	1457.77	9980.70	1961.54	.00	.00	9951.00	10058.00	.00
*	18.545	1308.28	.00	1308.76	288.68	1745.21	11300.05	2354.74	.00	.00	9951.00	10058.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	18.575	1306.72	.00	1306.91	270.68	1946.87	1943.91	5009.22	.00	.00	9972.00	10000.00	.00
	18.575	1307.95	.00	1308.29	284.87	3071.32	2791.09	7537.59	.00	.00	9972.00	10000.00	.00
	18.575	1308.43	.00	1308.83	290.32	3584.18	3152.32	8663.50	.00	.00	9972.00	10000.00	.00
	18.583	1307.35	.00	1307.53	276.85	1989.54	1903.44	5007.02	.00	.00	9972.00	10000.00	.00
	18.583	1308.89	.00	1309.17	294.44	3152.52	2707.91	7539.57	.00	.00	9972.00	10000.00	.00
	18.583	1309.50	.00	1309.84	301.44	3685.39	3046.31	8668.30	.00	.00	9972.00	10000.00	.00
	18.640	1307.32	.00	1307.66	215.31	1168.77	6132.10	1599.13	.00	.00	9955.00	10033.00	.00
	18.640	1308.83	.00	1309.38	245.17	1961.11	8764.32	2674.57	.00	.00	9955.00	10033.00	.00
	18.640	1309.43	.00	1310.07	255.52	2345.59	9850.54	3203.87	.00	.00	9955.00	10033.00	.00
	18.734	1307.49	.00	1307.93	194.05	555.34	8141.32	203.34	.00	.00	9938.00	10062.00	.00
	18.734	1309.06	.00	1309.79	223.31	1042.96	11917.94	439.09	.00	.00	9938.00	10062.00	.00
	18.734	1309.68	.00	1310.53	228.83	1314.28	13486.67	599.05	.00	.00	9938.00	10062.00	.00
	18.832	1307.81	.00	1308.28	191.92	128.46	7877.09	894.45	.00	.00	9929.00	10046.00	.00
	18.832	1309.52	.00	1310.26	209.35	325.04	11428.91	1646.05	.00	.00	9929.00	10046.00	.00
	18.832	1310.19	.00	1311.04	216.17	437.54	12951.81	2010.65	.00	.00	9929.00	10046.00	.00
	18.925	1308.13	.00	1308.66	180.41	808.92	7724.60	366.48	.00	.00	9941.00	10048.00	.00
	18.925	1309.93	.00	1310.77	194.45	1416.13	11266.08	717.79	.00	.00	9941.00	10048.00	.00
	18.925	1310.64	.00	1311.60	200.07	1711.89	12782.42	905.69	.00	.00	9941.00	10048.00	.00
*	19.018	1308.37	.00	1309.46	147.69	98.21	8801.79	.00	.00	.00	9903.00	10030.00	.00
*	19.018	1310.19	.00	1311.79	165.55	340.34	13048.54	11.12	.00	.00	9903.00	10030.00	.00
*	19.018	1310.89	.00	1312.69	172.44	489.51	14883.12	27.37	.00	.00	9903.00	10030.00	.00
*	19.117	1309.19	.00	1312.66	98.61	490.37	7557.78	851.85	.00	.00	9973.00	10026.00	.00
*	19.117	1311.58	.00	1315.69	114.17	1099.75	10634.31	1665.94	.00	.00	9973.00	10026.00	.00
*	19.117	1312.49	.00	1316.85	120.09	1414.18	11917.85	2067.97	.00	.00	9973.00	10026.00	.00
*	19.210	1313.70	.00	1315.02	129.15	12.24	8876.02	11.74	.00	.00	9945.00	10060.00	.00
*	19.210	1316.21	.00	1317.89	150.07	131.66	13141.98	126.36	.00	.00	9945.00	10060.00	.00
*	19.210	1317.19	.00	1319.01	158.26	227.00	14955.16	217.84	.00	.00	9945.00	10060.00	.00
*	19.283	1317.39	.00	1320.24	109.00	.00	8400.00	.00	.00	.00	9948.00	10057.00	.00
*	19.283	1319.17	.00	1322.95	109.00	.00	12700.00	.00	.00	.00	9948.00	10057.00	.00
*	19.283	1319.92	.00	1324.04	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1318.86	.00	1320.66	109.00	.00	8400.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1321.14	.00	1323.50	109.00	.00	12700.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1322.06	.00	1324.65	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
	19.313	1319.16	.00	1321.25	133.43	.00	8400.00	.00	.00	.00	9932.00	10112.00	.00
	19.313	1321.98	.00	1323.96	151.25	.00	12700.00	.00	.00	.00	9932.00	10112.00	.00
	19.313	1323.31	.00	1325.17	159.66	.00	14600.00	.00	.00	.00	9932.00	10112.00	.00
*	19.418	1323.00	.00	1324.22	143.78	.00	8400.00	.00	.00	.00	9948.00	10120.00	.00
	19.418	1324.79	.00	1326.48	156.84	.00	12700.00	.00	.00	.00	9948.00	10120.00	.00
	19.418	1325.59	.00	1327.43	162.69	.00	14600.00	.00	.00	.00	9948.00	10120.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	19.560	1325.37	.00	1326.58	120.32	.00	8400.00	.00	.00	.00	9929.00	10065.00	.00
	19.560	1327.42	.00	1329.14	126.99	.00	12700.00	.00	.00	.00	9929.00	10065.00	.00
	19.560	1328.21	.00	1330.15	129.60	.00	14600.00	.00	.00	.00	9929.00	10065.00	.00
*	19.625	1326.51	.00	1327.10	60.00	.00	3300.00	.00	.00	.00	9965.00	10025.00	.00
*	19.625	1328.97	.00	1329.77	60.00	.00	4900.00	.00	.00	.00	9965.00	10025.00	.00
*	19.625	1329.89	.00	1330.82	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.691	1326.56	.00	1327.30	60.00	.00	3300.00	.00	.00	.00	9965.00	10025.00	.00
	19.691	1330.01	.00	1330.80	60.00	.00	4900.00	.00	.00	.00	9965.00	10025.00	.00
	19.691	1331.53	.00	1332.37	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.742	1326.82	.00	1327.43	81.20	.00	3300.00	.00	.00	.00	9948.00	10042.00	.00
	19.742	1330.40	.00	1330.93	91.39	.00	4900.00	.00	.00	.00	9948.00	10042.00	.00
	19.742	1331.99	.00	1332.51	108.35	.78	5698.99	.24	.00	.00	9948.00	10042.00	.00
*	19.847	1327.09	.00	1327.95	81.39	.00	3300.00	.00	.00	.00	9929.00	10062.00	.00
*	19.847	1330.57	.00	1331.21	100.53	.00	4900.00	.00	.00	.00	9929.00	10062.00	.00
*	19.847	1332.14	.00	1332.73	109.85	.00	5700.00	.00	.00	.00	9929.00	10062.00	.00
*	19.960	1330.36	.00	1332.38	75.12	.30	3299.45	.25	.00	.00	9958.00	10031.00	.00
*	19.960	1331.62	.00	1334.14	82.47	15.23	4872.34	12.43	.00	.00	9958.00	10031.00	.00
*	19.960	1332.37	.00	1334.93	86.88	38.92	5629.33	31.75	.00	.00	9958.00	10031.00	.00
*	19.974	1332.04	.00	1333.00	51.00	.00	3300.00	.00	.00	.00	9969.00	10020.00	.00
*	19.974	1333.13	.00	1334.78	51.00	.00	4900.00	.00	.00	.00	9969.00	10020.00	.00
*	19.974	1333.31	.00	1335.46	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
	19.986	1332.30	.00	1333.20	51.00	.00	3300.00	.00	.00	.00	9969.00	10020.00	.00
	19.986	1334.37	.00	1335.65	51.00	.00	4900.00	.00	.00	.00	9969.00	10020.00	.00
	19.986	1335.25	.00	1336.73	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
*	20.049	1335.67	.00	1338.47	44.22	.00	3300.00	.00	.00	.00	9954.00	10027.00	.00
*	20.049	1337.49	.00	1340.87	50.60	.00	4900.00	.00	.00	.00	9954.00	10027.00	.00
*	20.049	1338.35	.00	1341.90	53.63	.00	5700.00	.00	.00	.00	9954.00	10027.00	.00
*	20.144	1340.46	.00	1341.68	54.01	.00	3300.00	.00	.00	.00	9955.00	10025.00	.00
*	20.144	1342.56	.00	1344.07	76.07	.00	4862.36	37.64	.00	.00	9955.00	10025.00	.00
*	20.144	1343.48	.00	1345.07	83.94	.00	5588.64	111.36	.00	.00	9955.00	10025.00	.00
	20.242	1342.49	.00	1343.78	56.33	.00	3300.00	.00	.00	.00	9953.00	10029.00	.00
	20.242	1344.56	.00	1346.09	80.50	.00	4833.85	66.15	.00	.00	9953.00	10029.00	.00
	20.242	1345.49	.00	1347.06	88.68	.00	5546.27	153.73	.00	.00	9953.00	10029.00	.00
	20.335	1344.71	.00	1345.56	76.94	.51	3299.02	.47	.00	.00	9958.00	10032.00	.00
	20.335	1346.63	.00	1347.70	84.96	15.83	4869.68	14.49	.00	.00	9958.00	10032.00	.00
	20.335	1347.44	.00	1348.61	88.31	31.74	5639.18	29.07	.00	.00	9958.00	10032.00	.00
	20.347	1344.74	.00	1345.89	51.00	.00	3300.00	.00	.00	.00	9970.00	10021.00	.00
	20.347	1346.51	.00	1348.17	51.00	.00	4900.00	.00	.00	.00	9970.00	10021.00	.00
	20.347	1347.24	.00	1349.16	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	20.366	1345.11	.00	1346.15	51.00	.00	3300.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1347.10	.00	1348.57	51.00	.00	4900.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1347.97	.00	1349.64	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.423	1346.05	.00	1347.02	87.56	2.74	3256.16	41.09	.00	.00	9975.00	10045.00	.00
	20.423	1348.47	.00	1349.42	104.91	52.80	4631.00	216.20	.00	.00	9975.00	10045.00	.00
	20.423	1349.57	.00	1350.51	112.82	101.68	5266.19	332.13	.00	.00	9975.00	10045.00	.00
	20.430	1345.94	.00	1347.41	51.00	.00	3300.00	.00	.00	.00	9985.00	10036.00	.00
	20.430	1348.13	.00	1349.97	51.00	.00	4900.00	.00	.00	.00	9985.00	10036.00	.00
	20.430	1349.13	.00	1351.13	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.444	1346.56	.00	1347.80	51.00	.00	3300.00	.00	.00	.00	9985.00	10036.00	.00
	20.444	1348.87	.00	1350.43	51.00	.00	4900.00	.00	.00	.00	9985.00	10036.00	.00
	20.444	1349.92	.00	1351.64	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.529	1348.60	.00	1349.62	90.21	.00	3300.00	.00	.00	.00	9947.00	10055.00	.00
	20.529	1351.06	.00	1351.90	182.03	32.37	4848.46	19.17	.00	.00	9947.00	10055.00	.00
	20.529	1352.25	.00	1352.95	189.83	165.51	5398.15	136.33	.00	.00	9947.00	10055.00	.00
*	20.628	1350.51	.00	1350.86	120.30	.00	3300.00	.00	.00	.00	9909.00	10076.00	.00
*	20.628	1352.47	.00	1352.87	146.50	.00	4900.00	.00	.00	.00	9909.00	10076.00	.00
	20.628	1353.31	.00	1353.74	150.61	.00	5700.00	.00	.00	.00	9909.00	10076.00	.00
*	20.725	1353.87	.00	1356.20	58.96	.00	3300.00	.00	.00	.00	9951.00	10036.00	.00
*	20.725	1355.37	.00	1358.21	64.67	.00	4900.00	.00	.00	.00	9951.00	10036.00	.00
*	20.725	1356.04	.00	1359.09	67.22	.00	5700.00	.00	.00	.00	9951.00	10036.00	.00
*	20.737	1355.95	.00	1358.50	51.00	.00	3300.00	.00	.00	.00	9968.00	10019.00	.00
*	20.737	1357.47	.00	1360.79	51.00	.00	4900.00	.00	.00	.00	9968.00	10019.00	.00
*	20.737	1358.17	.00	1361.84	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1357.67	.00	1359.13	51.00	.00	3300.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1359.68	.00	1361.58	51.00	.00	4900.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1360.60	.00	1362.70	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.819	1360.31	.00	1362.22	78.00	.00	3300.00	.00	.00	.00	9965.00	10043.00	.00
*	20.819	1361.55	.00	1363.95	78.00	.00	4900.00	.00	.00	.00	9965.00	10043.00	.00
*	20.819	1362.37	.00	1364.78	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1362.25	.00	1363.43	78.00	.00	3300.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1363.71	.00	1365.25	78.00	.00	4900.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1364.38	.00	1366.08	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.860	1363.37	.00	1363.95	105.14	.00	3300.00	.00	.00	.00	9942.00	10066.00	.00
*	20.860	1365.12	.00	1365.82	117.12	.00	4900.00	.00	.00	.00	9942.00	10066.00	.00
*	20.860	1365.98	.00	1366.67	261.14	86.17	5613.83	.00	.00	.00	9942.00	10066.00	.00
*	20.942	1365.22	.00	1366.02	266.85	.00	2466.12	833.88	.00	.00	9854.00	10024.00	.00
	20.942	1366.63	.00	1367.12	309.48	.00	3305.94	1594.06	.00	.00	9854.00	10024.00	.00
	20.942	1367.29	.00	1367.72	313.22	.00	3724.38	1975.62	.00	.00	9854.00	10024.00	.00

	SECNO	CWSEL	DIFKWS	ES	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	21.036	1369.89	.00	1371.15	105.88	.00	3300.00	.00	.00	.00	9912.00	10020.00	.00
*	21.036	1370.44	.00	1372.51	108.78	.00	4900.00	.00	.00	.00	9912.00	10020.00	.00
*	21.036	1371.95	.00	1373.07	520.10	367.07	5202.79	130.15	.00	.00	9912.00	10020.00	.00
	21.127	1373.27	.00	1374.36	84.26	.00	3300.00	.00	.00	.00	9974.00	10067.00	.00
*	21.127	1374.66	.00	1375.46	433.87	848.41	4051.59	.00	.00	.00	9974.00	10067.00	.00
*	21.127	1374.75	.00	1375.74	434.39	1077.09	4622.90	.00	.00	.00	9974.00	10067.00	.00
*	21.230	1379.04	.00	1380.40	161.94	7.22	2903.50	389.29	.00	.00	9967.00	10048.00	.00
*	21.230	1380.14	.00	1381.31	298.27	332.65	3625.71	941.64	.00	.00	9967.00	10048.00	.00
*	21.230	1380.36	.00	1381.67	304.81	508.80	4046.90	1144.30	.00	.00	9967.00	10048.00	.00
*	21.363	1381.98	.00	1382.29	162.23	7.81	3292.19	.00	.00	.00	9928.00	10088.00	.00
*	21.363	1382.92	.00	1383.39	203.11	56.45	4839.71	3.84	.00	.00	9928.00	10088.00	.00
*	21.363	1383.37	.00	1383.90	366.91	98.15	5566.19	35.65	.00	.00	9928.00	10088.00	.00
*	21.484	1385.59	.00	1386.53	318.09	572.24	2727.76	.00	.00	.00	9932.00	10026.00	.00
*	21.484	1386.32	.00	1387.20	474.98	1555.12	3341.71	3.17	.00	.00	9932.00	10026.00	.00
*	21.484	1386.53	.00	1387.44	514.70	2045.40	3648.02	6.58	.00	.00	9932.00	10026.00	.00
	21.576	1388.40	.00	1389.20	406.32	23.19	3001.58	275.22	.00	.00	9980.00	10087.00	.00
*	21.576	1389.08	.00	1389.81	828.58	466.60	3660.23	773.17	.00	.00	9980.00	10087.00	.00
*	21.576	1389.24	.00	1390.02	868.38	720.87	4008.42	970.70	.00	.00	9980.00	10087.00	.00
*	21.669	1392.89	.00	1393.43	839.81	239.66	2162.07	798.26	.00	.00	9962.00	10031.00	.00
*	21.669	1393.26	.00	1393.83	946.87	689.22	2600.39	1510.39	.00	.00	9962.00	10031.00	.00
*	21.669	1393.38	.00	1393.98	977.37	905.25	2788.42	1806.33	.00	.00	9962.00	10031.00	.00
	21.742	1394.19	.00	1394.91	114.82	.00	3200.00	.00	.00	.00	9975.00	10091.00	.00
	21.742	1394.73	.00	1395.96	237.54	.22	4752.36	47.42	.00	.00	9975.00	10091.00	.00
*	21.742	1395.18	.00	1396.38	525.85	29.14	5238.84	232.02	.00	.00	9975.00	10091.00	.00
	21.840	1396.67	.00	1397.50	209.51	321.65	2877.24	1.11	.00	.00	9946.00	10054.00	.00
	21.840	1397.80	.00	1398.55	424.71	789.16	3775.83	235.01	.00	.00	9946.00	10054.00	.00
	21.840	1398.04	.00	1398.83	437.88	945.78	4156.96	397.26	.00	.00	9946.00	10054.00	.00
*	21.895	1398.92	.00	1399.68	513.02	831.13	2195.99	172.87	.00	.00	9975.00	10031.00	.00
*	21.895	1399.47	.00	1400.27	591.51	1347.99	2684.23	767.79	.00	.00	9975.00	10031.00	.00
*	21.895	1399.67	.00	1400.47	596.22	1555.35	2864.44	1080.21	.00	.00	9975.00	10031.00	.00
*	21.933	1400.09	.00	1400.19	741.15	875.40	2108.34	216.26	.00	.00	9865.00	10140.00	.00
*	21.933	1400.66	.00	1400.78	925.55	1461.50	2903.56	434.93	.00	.00	9865.00	10140.00	.00
*	21.933	1400.86	.00	1400.99	970.39	1740.18	3230.12	529.70	.00	.00	9865.00	10140.00	.00
*	21.953	1400.04	.00	1400.97	254.22	936.28	2224.75	38.97	.00	.00	9969.00	10029.00	.00
*	21.953	1400.79	.00	1401.75	390.64	1902.41	2788.03	109.56	.00	.00	9969.00	10029.00	.00
*	21.953	1401.06	.00	1402.01	459.91	2374.60	2981.81	143.59	.00	.00	9969.00	10029.00	.00
*	22.065	1403.27	.00	1403.41	659.32	2202.52	972.72	24.76	.00	.00	9961.00	10028.00	.00
*	22.065	1403.87	.00	1404.03	751.58	3558.61	1184.55	56.84	.00	.00	9961.00	10028.00	.00
*	22.065	1404.08	.00	1404.25	777.84	4154.77	1273.89	71.34	.00	.00	9961.00	10028.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	22.165	1404.37	.00	1404.56	609.27	2087.40	1109.76	2.83	.00	.00	9983.00	10018.00	.00
	22.165	1405.02	.00	1405.22	742.21	3433.51	1346.94	19.55	.00	.00	9983.00	10018.00	.00
	22.165	1405.25	.00	1405.46	828.27	4034.46	1433.28	32.26	.00	.00	9983.00	10018.00	.00
*	22.273	1405.74	.00	1406.27	259.54	838.01	2361.99	.00	.00	.00	9933.00	10028.00	.00
*	22.273	1406.42	.00	1407.09	366.19	1597.22	3202.78	.00	.00	.00	9933.00	10028.00	.00
*	22.273	1406.66	.00	1407.38	419.21	1973.64	3526.36	.00	.00	.00	9933.00	10028.00	.00
*	22.410	1411.82	.00	1413.91	82.02	39.01	3159.45	1.53	.00	.00	9973.00	10027.00	.00
*	22.410	1413.70	.00	1415.50	163.40	495.28	4229.98	74.74	.00	.00	9973.00	10027.00	.00
*	22.410	1414.22	.00	1415.98	193.61	768.28	4585.83	145.88	.00	.00	9973.00	10027.00	.00
*	22.483	1414.47	.00	1414.55	304.81	79.86	2911.65	208.49	.00	.00	9941.00	10105.00	.00
*	22.483	1415.99	.00	1416.09	320.28	230.06	4056.43	513.51	.00	.00	9941.00	10105.00	.00
*	22.483	1416.46	.00	1416.58	325.09	301.10	4551.84	647.06	.00	.00	9941.00	10105.00	.00
*	22.578	1414.55	.00	1415.14	89.91	.00	3200.00	.00	.00	.00	9968.00	10072.00	.00
*	22.578	1415.93	.00	1416.78	94.53	.00	4800.00	.00	.00	.00	9968.00	10072.00	.00
*	22.578	1416.34	.00	1417.33	95.82	.00	5500.00	.00	.00	.00	9968.00	10072.00	.00
*	22.675	1415.35	.00	1415.95	278.60	.00	3200.00	.00	.00	.00	9736.00	10032.00	.00
*	22.675	1417.44	.00	1417.56	285.46	.00	4800.00	.00	.00	.00	9736.00	10032.00	.00
*	22.675	1418.01	.00	1418.14	287.90	.00	5500.00	.00	.00	.00	9736.00	10032.00	.00
*	22.794	1416.63	.00	1416.98	191.46	.00	3197.90	2.10	.00	.00	9983.00	10169.00	.00
*	22.794	1418.02	.00	1418.42	210.68	.06	4738.99	60.96	.00	.00	9983.00	10169.00	.00
*	22.794	1418.55	.00	1418.97	215.74	1.34	5395.07	103.60	.00	.00	9983.00	10169.00	.00
	22.880	1418.66	.00	1419.09	205.47	.00	3200.00	.00	.00	.00	9927.00	10167.00	.00
	22.880	1419.64	.00	1420.18	209.92	.00	4800.00	.00	.00	.00	9927.00	10167.00	.00
	22.880	1420.05	.00	1420.62	211.78	.00	5500.00	.00	.00	.00	9927.00	10167.00	.00
	22.990	1422.66	.00	1423.09	259.20	.00	3200.00	.00	.00	.00	9739.00	10034.00	.00
	22.990	1423.36	.00	1423.93	268.36	.00	4800.00	.00	.00	.00	9739.00	10034.00	.00
	22.990	1423.63	.00	1424.26	272.08	.00	5500.00	.00	.00	.00	9739.00	10034.00	.00
*	23.097	1428.86	.00	1429.95	152.27	.00	3200.00	.00	.00	.00	9951.00	10121.00	.00
*	23.097	1429.55	.00	1431.04	178.52	8.26	4791.74	.00	.00	.00	9951.00	10121.00	.00
*	23.097	1429.89	.00	1431.46	186.86	38.91	5461.09	.00	.00	.00	9951.00	10121.00	.00
*	23.168	1431.93	.00	1432.07	528.14	303.15	2816.46	80.39	.00	.00	9777.00	10116.00	.00
*	23.168	1432.74	.00	1432.91	586.96	614.91	3958.03	227.06	.00	.00	9777.00	10116.00	.00
*	23.168	1433.05	.00	1433.22	609.23	763.81	4435.30	300.90	.00	.00	9777.00	10116.00	.00
*	23.253	1434.24	.00	1437.02	43.74	.00	3200.00	.00	.00	.00	9973.00	10038.00	.00
*	23.253	1434.37	.00	1437.19	44.18	.00	3300.00	.00	.00	.00	9973.00	10038.00	.00
*	23.253	1434.53	.00	1437.36	44.74	.00	3400.00	.00	.00	.00	9973.00	10038.00	.00
*	23.334	1440.16	.00	1441.55	65.96	.00	3200.00	.00	.00	.00	9962.00	10055.00	.00
*	23.334	1440.29	.00	1441.70	66.49	.00	3300.00	.00	.00	.00	9962.00	10055.00	.00
	23.334	1440.39	.00	1441.83	66.92	.00	3400.00	.00	.00	.00	9962.00	10055.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	23.416	1443.61	.00	1445.31	58.43	.00	3200.00	.00	.00	.00	9974.00	10053.00	.00
	23.416	1443.72	.00	1445.45	58.77	.00	3300.00	.00	.00	.00	9974.00	10053.00	.00
	23.416	1443.82	.00	1445.60	59.14	.00	3400.00	.00	.00	.00	9974.00	10053.00	.00
	23.514	1447.86	.00	1449.15	56.79	.00	3200.00	.00	.00	.00	9973.00	10039.00	.00
	23.514	1447.98	.00	1449.31	57.14	.00	3300.00	.00	.00	.00	9973.00	10039.00	.00
	23.514	1448.11	.00	1449.46	57.47	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.544	1448.67	.00	1450.48	54.12	.00	3200.00	.00	.00	.00	9973.00	10039.00	.00
	23.544	1448.79	.00	1450.64	54.46	.00	3300.00	.00	.00	.00	9973.00	10039.00	.00
	23.544	1448.91	.00	1450.79	54.80	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
*	23.555	1452.55	.00	1453.21	63.01	.00	3200.00	.00	.00	.00	9973.00	10039.00	.00
*	23.555	1452.59	.00	1453.29	63.14	.00	3300.00	.00	.00	.00	9973.00	10039.00	.00
*	23.555	1452.64	.00	1453.37	63.27	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.591	1453.01	.00	1453.74	75.18	.00	3200.00	.00	.00	.00	9968.00	10045.00	.00
	23.591	1453.08	.00	1453.83	75.34	.00	3300.00	.00	.00	.00	9968.00	10045.00	.00
	23.591	1453.15	.00	1453.93	75.49	.00	3400.00	.00	.00	.00	9968.00	10045.00	.00
*	23.691	1454.93	.00	1456.20	64.39	.00	3200.00	.00	.00	.00	9965.00	10036.00	.00
*	23.691	1455.04	.00	1456.34	64.87	.00	3300.00	.00	.00	.00	9965.00	10036.00	.00
	23.691	1455.15	.00	1456.48	65.33	.00	3400.00	.00	.00	.00	9965.00	10036.00	.00
*	23.815	1458.45	.00	1459.13	79.99	.00	3150.00	.00	.00	.00	9951.00	10037.00	.00
*	23.815	1458.81	.00	1459.76	84.88	.00	3950.00	.00	.00	.00	9951.00	10037.00	.00
*	23.815	1459.01	.00	1460.09	86.00	.00	4350.00	.00	.00	.00	9951.00	10037.00	.00
	23.912	1459.83	.00	1460.36	70.62	.00	3100.00	.00	.00	.00	9967.00	10043.00	.00
	23.912	1460.65	.00	1461.59	74.23	.00	4600.00	.00	.00	.00	9967.00	10043.00	.00
*	23.912	1461.04	.00	1462.18	75.59	.00	5300.00	.00	.00	.00	9967.00	10043.00	.00
	23.989	1460.64	.00	1461.00	90.53	.00	3100.00	.00	.00	.00	9937.00	10049.00	.00
	23.989	1461.99	.00	1462.54	96.26	.00	4600.00	.00	.00	.00	9937.00	10049.00	.00
*	23.989	1462.61	.00	1463.23	98.91	.00	5300.00	.00	.00	.00	9937.00	10049.00	.00
	24.086	1461.28	.00	1461.77	72.00	.00	3100.00	.00	.00	.00	9972.00	10044.00	.00
	24.086	1462.78	.00	1463.53	72.00	.00	4600.00	.00	.00	.00	9972.00	10044.00	.00
	24.086	1463.44	.00	1464.31	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.096	1461.31	.00	1461.80	72.00	.00	3100.00	.00	.00	.00	9972.00	10044.00	.00
	24.096	1463.62	.00	1464.25	72.00	.00	4600.00	.00	.00	.00	9972.00	10044.00	.00
	24.096	1464.71	.00	1465.39	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.106	1461.54	.00	1461.91	128.30	.00	3041.13	58.87	.00	.00	9955.00	10064.00	.00
	24.106	1464.05	.00	1464.40	155.51	.00	4326.41	273.59	.00	.00	9955.00	10064.00	.00
	24.106	1465.21	.00	1465.55	166.78	1.08	4877.63	421.28	.00	.00	9955.00	10064.00	.00
*	24.195	1462.22	.00	1462.35	169.36	.00	3100.00	.00	.00	.00	9933.00	10142.00	.00
*	24.195	1464.58	.00	1464.73	187.94	.00	4600.00	.00	.00	.00	9933.00	10142.00	.00
*	24.195	1465.69	.00	1465.84	196.58	.00	5300.00	.00	.00	.00	9933.00	10142.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	24.322	1462.45	.00	1462.48	325.41	.00	2654.65	445.35	.00	.00	9871.00	10064.00	.00
*	24.322	1464.81	.00	1464.85	352.61	1.28	3728.23	870.49	.00	.00	9871.00	10064.00	.00
*	24.322	1465.91	.00	1465.95	366.31	6.23	4200.34	1093.43	.00	.00	9871.00	10064.00	.00
*	24.444	1462.48	.00	1462.72	257.56	.00	2652.24	447.76	.00	.00	9928.00	10122.00	.00
*	24.444	1464.86	.00	1465.02	271.26	.00	3713.20	886.80	.00	.00	9928.00	10122.00	.00
*	24.444	1465.95	.00	1466.10	277.67	.36	4211.19	1088.46	.00	.00	9928.00	10122.00	.00
*	24.542	1464.84	.00	1465.63	164.00	2.10	3097.90	.00	.00	.00	9914.00	10187.00	.00
*	24.542	1465.49	.00	1466.61	171.48	9.95	4590.04	.00	.00	.00	9914.00	10187.00	.00
*	24.542	1466.33	.00	1467.25	181.23	26.14	5273.86	.00	.00	.00	9914.00	10187.00	.00
	24.635	1471.20	.00	1472.00	168.33	.00	3100.00	.00	.00	.00	9876.00	10111.00	.00
	24.635	1472.13	.00	1473.04	196.58	.00	4600.00	.00	.00	.00	9876.00	10111.00	.00
	24.635	1472.05	.00	1473.32	194.18	.00	5300.00	.00	.00	.00	9876.00	10111.00	.00
*	24.738	1475.73	.00	1475.95	337.03	.00	879.71	2120.29	.00	.00	9897.00	10038.00	.00
*	24.738	1476.46	.00	1476.74	347.65	.00	1239.85	3260.15	.00	.00	9897.00	10038.00	.00
*	24.738	1476.89	.00	1477.18	355.18	.00	1399.36	3800.64	.00	.00	9897.00	10038.00	.00
*	24.838	1479.96	.00	1480.39	645.33	.00	958.14	2041.86	.00	.00	9945.00	10019.00	.00
*	24.838	1480.22	.00	1480.76	648.99	.00	1160.07	3339.92	.00	.00	9945.00	10019.00	.00
*	24.838	1480.33	.00	1480.92	650.49	.00	1244.32	3955.67	.00	.00	9945.00	10019.00	.00
*	24.943	1482.75	.00	1482.84	787.84	426.50	379.69	2193.81	.00	.00	9983.00	10017.00	.00
*	24.943	1483.24	.00	1483.35	796.00	713.54	461.93	3324.54	.00	.00	9983.00	10017.00	.00
*	24.943	1483.44	.00	1483.57	799.36	851.43	498.44	3850.13	.00	.00	9983.00	10017.00	.00
*	25.048	1486.83	.00	1487.35	544.07	607.23	430.55	1962.22	.00	.00	9966.00	10017.00	.00
*	25.048	1487.15	.00	1487.79	553.54	1172.34	578.73	2748.93	.00	.00	9966.00	10017.00	.00
*	25.048	1487.27	.00	1487.98	557.24	1444.52	645.12	3110.36	.00	.00	9966.00	10017.00	.00
*	25.163	1491.33	.00	1491.55	348.02	69.96	809.35	2020.69	.00	.00	9972.00	10025.00	.00
*	25.163	1491.95	.00	1492.24	363.56	159.40	1046.11	3094.49	.00	.00	9972.00	10025.00	.00
*	25.163	1492.19	.00	1492.51	369.01	205.28	1143.60	3551.12	.00	.00	9972.00	10025.00	.00
	25.262	1493.17	.00	1493.31	514.25	2396.94	503.06	.00	.00	.00	9948.00	10030.00	.00
	25.262	1493.78	.00	1493.95	520.65	3606.61	693.39	.00	.00	.00	9948.00	10030.00	.00
	25.262	1494.01	.00	1494.20	521.78	4118.96	781.04	.00	.00	.00	9948.00	10030.00	.00
*	25.374	1499.32	.00	1499.41	366.94	2242.85	657.15	.00	.00	.00	9969.00	10023.00	.00
*	25.374	1499.30	.00	1499.51	366.91	3324.21	975.79	.00	.00	.00	9969.00	10023.00	.00
*	25.374	1499.37	.00	1499.62	367.07	3795.47	1104.53	.00	.00	.00	9969.00	10023.00	.00
*	25.434	1502.13	.00	1504.33	56.38	.00	2900.00	.00	.00	.00	9968.00	10036.00	.00
*	25.434	1503.57	.00	1506.21	63.46	.00	4300.00	.00	.00	.00	9968.00	10036.00	.00
*	25.434	1503.97	.00	1506.92	65.40	.00	4900.00	.00	.00	.00	9968.00	10036.00	.00
*	25.500	1505.25	.00	1505.55	135.84	.00	2900.00	.00	.00	.00	9908.00	10105.00	.00
*	25.500	1507.04	.00	1507.38	162.15	.00	4300.00	.00	.00	.00	9908.00	10105.00	.00
*	25.500	1507.74	.00	1508.08	170.83	.00	4900.00	.00	.00	.00	9908.00	10105.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	25.523	1505.54	.00	1505.67	146.50	249.67	2185.02	465.32	.00	.00	9963.00	10037.00	.00
*	25.523	1507.31	.00	1507.49	157.40	403.34	3115.93	780.74	.00	.00	9963.00	10037.00	.00
*	25.523	1507.99	.00	1508.19	161.62	472.40	3501.05	926.55	.00	.00	9963.00	10037.00	.00
*	25.534	1509.21	.00	1511.06	72.78	.00	2900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.534	1510.33	.00	1512.71	73.01	.00	4300.00	.00	.00	.00	9963.00	10037.00	.00
*	25.534	1510.75	.00	1513.36	73.10	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.551	1510.36	.00	1511.43	73.02	.00	2900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.551	1511.68	.00	1513.13	73.30	.00	4300.00	.00	.00	.00	9963.00	10037.00	.00
*	25.551	1512.21	.00	1513.80	73.41	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
	25.557	1510.18	.00	1511.69	72.67	.00	2900.00	.00	.00	.00	9954.00	10046.00	.00
	25.557	1511.52	.00	1513.36	78.05	.00	4300.00	.00	.00	.00	9954.00	10046.00	.00
	25.557	1512.08	.00	1514.01	80.27	.00	4900.00	.00	.00	.00	9954.00	10046.00	.00
	25.561	1511.98	.00	1512.12	106.16	.00	1700.00	.00	.00	.00	9948.00	10069.00	.00
	25.561	1513.71	.00	1513.88	114.53	.00	2500.00	.00	.00	.00	9948.00	10069.00	.00
	25.561	1514.36	.00	1514.55	117.68	.00	2900.00	.00	.00	.00	9948.00	10069.00	.00
*	25.680	1512.53	.00	1512.62	427.49	47.69	1039.92	512.38	.00	.00	9927.00	10093.00	.00
	25.680	1514.10	.00	1514.15	542.65	178.17	1208.02	913.81	.00	.00	9927.00	10093.00	.00
*	25.680	1514.74	.00	1514.78	663.75	297.03	1319.35	1083.62	.00	.00	9927.00	10093.00	.00
*	25.786	1515.82	.00	1516.31	294.04	.00	1318.50	181.50	.00	.00	9978.00	10056.00	.00
*	25.786	1516.15	.00	1516.80	332.39	.00	1740.83	459.17	.00	.00	9978.00	10056.00	.00
*	25.786	1516.32	.00	1516.97	351.98	.00	1867.53	632.47	.00	.00	9978.00	10056.00	.00
	25.947	1520.17	.00	1520.67	130.64	.00	1295.63	104.36	.00	.00	9950.00	10066.00	.00
	25.947	1520.90	.00	1521.39	163.25	.00	1735.12	264.88	.00	.00	9950.00	10066.00	.00
	25.947	1521.07	.00	1521.63	164.54	.00	1967.12	332.87	.00	.00	9950.00	10066.00	.00
	26.058	1522.63	.00	1523.01	144.14	222.96	1077.04	.00	.00	.00	9966.00	10024.00	.00
	26.058	1523.22	.00	1523.69	173.75	470.67	1429.33	.00	.00	.00	9966.00	10024.00	.00
	26.058	1523.49	.00	1523.98	182.03	620.82	1579.18	.00	.00	.00	9966.00	10024.00	.00
	26.152	1524.06	.00	1524.36	96.34	.00	1200.00	.00	.00	.00	9956.00	10069.00	.00
	26.152	1524.72	.00	1525.12	103.13	.00	1700.00	.00	.00	.00	9956.00	10069.00	.00
	26.152	1524.99	.00	1525.46	105.87	.00	2000.00	.00	.00	.00	9956.00	10069.00	.00
*	26.265	1526.91	.00	1528.10	61.47	.00	1095.99	4.01	.00	.00	9955.00	10029.00	.00
*	26.265	1527.77	.00	1528.98	90.37	.00	1527.63	72.37	.00	.00	9955.00	10029.00	.00
*	26.265	1528.15	.00	1529.39	103.26	.00	1758.20	141.80	.00	.00	9955.00	10029.00	.00
*	26.372	1530.18	.00	1530.40	84.09	.00	1000.00	.00	.00	.00	9966.00	10080.00	.00
*	26.372	1530.99	.00	1531.30	93.13	.00	1500.00	.00	.00	.00	9966.00	10080.00	.00
*	26.372	1531.35	.00	1531.67	97.17	.00	1700.00	.00	.00	.00	9966.00	10080.00	.00
*	26.492	1530.88	.00	1530.93	172.04	.00	900.00	.00	.00	.00	9866.00	10084.00	.00
*	26.492	1531.77	.00	1531.83	179.99	.00	1300.00	.00	.00	.00	9866.00	10084.00	.00
*	26.492	1532.15	.00	1532.22	183.14	.00	1600.00	.00	.00	.00	9866.00	10084.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	26.582	1530.95	.00	1530.95	698.68	397.34	354.22	148.44	.00	.00	9869.00	10028.00	.00
*	26.582	1531.85	.00	1531.85	712.55	589.25	487.46	223.29	.00	.00	9869.00	10028.00	.00
*	26.582	1532.24	.00	1532.25	718.50	731.81	589.59	278.60	.00	.00	9869.00	10028.00	.00
*	26.673	1533.56	.00	1533.96	213.92	.00	653.65	46.35	.00	.00	9955.00	10077.00	.00
*	26.673	1533.85	.00	1534.35	232.65	.00	953.02	146.98	.00	.00	9955.00	10077.00	.00
*	26.673	1533.98	.00	1534.51	239.21	.00	1094.54	205.46	.00	.00	9955.00	10077.00	.00
*	26.784	1545.62	.00	1546.40	64.54	.00	700.00	.00	.00	.00	9975.00	10080.00	.00
*	26.784	1546.05	.00	1547.02	67.21	.00	1000.00	.00	.00	.00	9975.00	10080.00	.00
*	26.784	1546.18	.00	1547.20	68.01	.00	1100.00	.00	.00	.00	9975.00	10080.00	.00
*	26.883	1546.49	.00	1546.49	427.23	.26	566.99	32.75	.00	.00	9773.00	10122.00	.00
*	26.883	1547.12	.00	1547.12	432.58	.73	844.45	54.82	.00	.00	9773.00	10122.00	.00
*	26.883	1547.31	.00	1547.31	434.21	.94	936.35	62.70	.00	.00	9773.00	10122.00	.00
*	26.984	1546.49	.00	1546.49	336.17	.15	346.65	53.20	.00	.00	9943.00	10170.00	.00
*	26.984	1547.12	.00	1547.13	361.91	.79	597.10	102.11	.00	.00	9943.00	10170.00	.00
*	26.984	1547.31	.00	1547.32	371.13	1.28	764.04	134.68	.00	.00	9943.00	10170.00	.00
*	27.060	1557.81	.00	1558.92	21.85	.00	400.00	.00	.00	.00	9980.00	10019.00	.00
*	27.060	1558.88	.00	1560.29	26.81	.00	700.00	.00	.00	.00	9980.00	10019.00	.00
*	27.060	1559.46	.00	1561.02	29.47	.00	900.00	.00	.00	.00	9980.00	10019.00	.00
*	27.166	1560.06	.00	1560.18	31.13	.00	300.00	.00	.00	.00	9977.00	10023.00	.00
*	27.166	1561.46	.00	1561.62	36.32	.00	500.00	.00	.00	.00	9977.00	10023.00	.00
*	27.166	1562.18	.00	1562.35	38.99	.00	600.00	.00	.00	.00	9977.00	10023.00	.00
	27.294	1560.41	.00	1560.44	41.23	.00	200.00	.00	.00	.00	9967.00	10027.00	.00
	27.294	1561.83	.00	1561.86	47.20	.00	300.00	.00	.00	.00	9967.00	10027.00	.00
	27.294	1562.54	.00	1562.59	50.20	.00	400.00	.00	.00	.00	9967.00	10027.00	.00
	-19.560	1325.37	.00	1326.58	120.33	.00	8400.00	.00	.00	.00	9929.00	10065.00	.00
	-19.560	1327.42	.00	1329.14	127.02	.00	12700.00	.00	.00	.00	9929.00	10065.00	.00
	-19.560	1328.21	.00	1330.15	129.62	.00	14600.00	.00	.00	.00	9929.00	10065.00	.00
*	.029	1327.03	.00	1329.53	88.50	.00	5500.00	.00	.00	.00	9942.00	10043.00	.00
*	.029	1328.77	.00	1331.77	113.24	.00	8296.61	3.39	.00	.00	9942.00	10043.00	.00
*	.029	1329.35	.00	1332.60	130.50	.00	9478.32	21.68	.00	.00	9942.00	10043.00	.00
*	.112	1329.98	.00	1330.39	177.21	.00	5500.00	.00	.00	.00	9887.00	10101.00	.00
*	.112	1332.13	.00	1332.62	275.50	7.00	8293.00	.00	.00	.00	9887.00	10101.00	.00
*	.112	1332.94	.00	1333.44	330.25	100.06	9399.94	.00	.00	.00	9887.00	10101.00	.00
	.198	1330.46	.00	1331.02	190.10	.00	5500.00	.00	.00	.00	9897.00	10133.00	.00
	.198	1332.54	.00	1333.15	215.96	.11	8299.89	.00	.00	.00	9897.00	10133.00	.00
	.198	1333.31	.00	1333.94	249.57	13.92	9486.08	.00	.00	.00	9897.00	10133.00	.00
*	.288	1331.47	.00	1333.43	127.69	.00	5500.00	.00	.00	.00	9885.00	10069.00	.00
*	.288	1332.81	.00	1335.18	144.46	.00	8300.00	.00	.00	.00	9885.00	10069.00	.00
*	.288	1333.31	.00	1335.83	150.75	.00	9500.00	.00	.00	.00	9885.00	10069.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	.398	1335.21	.00	1335.97	162.20	.00	5500.00	.00	.00	.00	9904.00	10119.00	.00
*	.398	1336.71	.00	1337.70	176.46	.00	8300.00	.00	.00	.00	9904.00	10119.00	.00
*	.398	1337.27	.00	1338.35	181.83	.00	9500.00	.00	.00	.00	9904.00	10119.00	.00
*	.482	1338.82	.00	1341.39	98.15	.00	5483.27	16.73	.00	.00	9937.00	10024.00	.00
*	.482	1342.02	.00	1343.13	830.22	44.36	6537.35	1718.28	.00	.00	9937.00	10024.00	.00
*	.482	1342.35	.00	1343.41	889.74	79.05	6887.36	2533.59	.00	.00	9937.00	10024.00	.00
*	.575	1342.69	.00	1343.23	440.28	232.02	5178.47	89.50	.00	.00	9869.00	10049.00	.00
	.575	1343.60	.00	1344.24	695.11	591.99	7028.62	679.39	.00	.00	9869.00	10049.00	.00
	.575	1343.82	.00	1344.53	730.21	727.34	7778.19	994.47	.00	.00	9869.00	10049.00	.00
	.697	1343.81	.00	1344.39	200.23	.00	5408.42	91.58	.00	.00	9847.00	10023.00	.00
	.697	1344.76	.00	1345.65	228.48	.00	7914.10	285.90	.00	.00	9847.00	10023.00	.00
	.697	1345.06	.00	1346.10	237.20	.00	9013.49	386.51	.00	.00	9847.00	10023.00	.00
*	.826	1346.37	.00	1348.33	143.22	36.40	5463.59	.00	.00	.00	9929.00	10050.00	.00
*	.826	1347.79	.00	1349.94	185.12	457.34	7742.66	.00	.00	.00	9929.00	10050.00	.00
*	.826	1348.29	.00	1350.53	199.85	729.25	8670.75	.00	.00	.00	9929.00	10050.00	.00
*	.945	1350.35	.00	1350.82	372.70	176.73	5304.83	18.44	.00	.00	9856.00	10034.00	.00
*	.945	1351.63	.00	1352.14	457.00	741.14	7137.65	321.20	.00	.00	9856.00	10034.00	.00
*	.945	1352.12	.00	1352.63	561.70	1059.47	7814.26	526.27	.00	.00	9856.00	10034.00	.00
	1.035	1351.39	.00	1351.96	287.56	288.62	5116.49	94.89	.00	.00	9841.00	10022.00	.00
	1.035	1352.51	.00	1353.20	416.85	765.74	7172.65	261.61	.00	.00	9841.00	10022.00	.00
	1.035	1352.93	.00	1353.65	460.77	1059.57	7955.86	384.58	.00	.00	9841.00	10022.00	.00
	1.121	1352.67	.00	1353.12	187.00	.00	5500.00	.00	.00	.00	9868.00	10069.00	.00
	1.121	1353.77	.00	1354.46	199.99	.00	8199.86	.14	.00	.00	9868.00	10069.00	.00
	1.121	1354.16	.00	1354.96	235.28	.00	9395.98	4.02	.00	.00	9868.00	10069.00	.00
*	1.204	1353.42	.00	1355.25	99.50	.00	5490.42	9.58	.00	.00	9949.00	10043.00	.00
*	1.204	1354.91	.00	1356.97	219.47	.00	7628.05	571.95	.00	.00	9949.00	10043.00	.00
*	1.204	1355.42	.00	1357.51	226.07	.00	8391.40	1008.60	.00	.00	9949.00	10043.00	.00
*	1.315	1357.24	.00	1357.54	248.61	.00	4377.52	922.48	.00	.00	9904.00	10074.00	.00
*	1.315	1358.82	.00	1359.17	326.17	.00	6161.82	1738.18	.00	.00	9904.00	10074.00	.00
*	1.315	1359.33	.00	1359.72	332.04	.00	6944.01	2155.99	.00	.00	9904.00	10074.00	.00
*	1.420	1359.30	.00	1359.78	339.75	879.52	1280.44	40.04	.00	.00	9970.00	10010.00	.00
*	1.420	1360.70	.00	1361.21	903.99	3056.96	1983.14	859.90	.00	.00	9970.00	10010.00	.00
*	1.420	1361.00	.00	1361.67	970.00	4308.52	2457.70	1633.78	.00	.00	9970.00	10010.00	.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=     15.310  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.310  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.310  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     15.310  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.310  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.310  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     15.310  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.310  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.310  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     15.454  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     15.454  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     15.530  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.530  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.530  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     15.530  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.530  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.530  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     15.530  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.530  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.530  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     15.680  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.680  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.680  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     15.680  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.680  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.680  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     15.680  PROFILE=  3  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     15.680  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=     15.878  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.878  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     15.878  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.878  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.878  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     15.878  PROFILE=  3  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     15.878  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     15.920  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.920  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.920  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     15.920  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    15.920  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    15.920  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    15.920  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    15.920  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    15.920  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    15.940  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=    15.940  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    15.940  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=    15.940  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    15.940  PROFILE=  3  HYDRAULIC JUMP D.S.
WARNING SECNO=    15.940  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    16.023  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    16.023  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    16.023  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.023  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.023  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    16.023  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.023  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.023  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    16.148  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    16.148  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=    16.264  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    16.264  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    16.264  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    16.264  PROFILE=  3  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    16.264  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=    16.373  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=    16.373  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    16.373  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.373  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    16.481  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.481  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=    16.481  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.481  PROFILE=  3  MINIMUM SPECIFIC ENERGY

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CAUTION SECNO=    16.601  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.601  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=    16.601  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.601  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=    16.694  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.694  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.694  PROFILE=  3  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    16.823  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.823  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.823  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    16.823  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.823  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.823  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    16.823  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.823  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.823  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    16.902  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.902  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.902  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.902  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.902  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.902  PROFILE=  3  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    16.970  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.970  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.970  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.970  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    16.970  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    16.970  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    16.988  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=    16.988  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    16.988  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=    16.988  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    16.988  PROFILE=  3  HYDRAULIC JUMP D.S.
WARNING SECNO=    16.988  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    17.206  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    17.206  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    17.206  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    17.206  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    17.206  PROFILE=  2  MINIMUM SPECIFIC ENERGY

NOTE    SECNO=    17.360  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    17.360  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    17.360  PROFILE=  2  WSEL BASED ON X5 CARD
WARNING SECNO=    17.360  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    17.360  PROFILE=  3  WSEL BASED ON X5 CARD
WARNING SECNO=    17.360  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    17.494  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    17.494  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    17.494  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    17.494  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    17.494  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    17.494  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    17.494  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    17.494  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    17.494  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    17.588  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.588  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.588  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.662  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.662  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.662  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.783  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.783  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.042  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.042  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.042  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.081  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.081  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.081  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.269  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     18.269  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     18.445  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     18.445  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     18.445  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     18.456  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.456  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.456  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.545  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.545  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.545  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.018  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.018  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.018  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.117  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.117  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     19.210  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.210  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.210  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.283  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.283  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.283  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     19.299  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=     19.299  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     19.299  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=     19.299  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=    19.299  PROFILE=  3  HYDRAULIC JUMP D.S.
WARNING SECNO=    19.299  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.418  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.625  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.625  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.625  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.847  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.847  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.847  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    19.960  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    19.960  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    19.960  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    19.960  PROFILE=  2  MINIMUM SPECIFIC ENERGY
WARNING SECNO=    19.960  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.974  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.974  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.974  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    20.049  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.049  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.049  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    20.049  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.049  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.049  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    20.049  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.049  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.049  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    20.144  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    20.144  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    20.144  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    20.628  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    20.628  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    20.725  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.725  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.725  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    20.725  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.725  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.725  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    20.725  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.725  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.725  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    20.737  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    20.737  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.737  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    20.737  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.737  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.737  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    20.737  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.737  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.737  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    20.750  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=    20.750  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    20.750  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=    20.750  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    20.750  PROFILE=  3  HYDRAULIC JUMP D.S.
WARNING SECNO=    20.750  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    20.819  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.819  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=    20.819  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    20.819  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    20.841  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=    20.841  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    20.841  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=    20.841  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    20.841  PROFILE=  3  HYDRAULIC JUMP D.S.

WARNING SECNO=    20.860  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    20.860  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    20.860  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    20.942  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    21.036  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.036  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.036  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    21.036  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.036  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.036  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    21.127  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    21.127  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.127  PROFILE=  3  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    21.230  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.230  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.230  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    21.230  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.230  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.230  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    21.230  PROFILE=  3  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    21.230  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.230  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    21.363  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    21.363  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    21.363  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    21.484  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.484  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.484  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    21.484  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.484  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.484  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    21.484  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.484  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.484  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    21.576  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.576  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.576  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.576  PROFILE=  3  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    21.669  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.669  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.669  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.669  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.669  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    21.669  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.669  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.669  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    21.742  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.742  PROFILE=  3  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    21.895  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.895  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.895  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.895  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.895  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.895  PROFILE=  3  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    21.933  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    21.933  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    21.933  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    21.953  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.953  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.953  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    21.953  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.953  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.953  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=    21.953  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.953  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.953  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    22.065  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.065  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.065  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    22.273  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.273  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.273  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    22.410  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    22.410  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    22.410  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    22.410  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    22.410  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    22.410  PROFILE=  3  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    22.483  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.483  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.483  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    22.578  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.578  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.578  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    22.675  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.675  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.675  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    22.794  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.794  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.794  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    23.097  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    23.097  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    23.097  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    23.097  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    23.097  PROFILE=  3  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    23.168  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    23.168  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    23.168  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    23.253  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    23.253  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    23.253  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    23.253  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    23.253  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    23.253  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=     23.253  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     23.253  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     23.253  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     23.334  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.334  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.555  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.555  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.555  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.691  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.691  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.815  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.815  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.815  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.912  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.989  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.195  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.195  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.195  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.322  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.322  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.322  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.444  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.444  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.444  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.542  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.542  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.542  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.738  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.738  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.738  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     24.838  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     24.838  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     24.838  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     24.838  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     24.838  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     24.838  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     24.838  PROFILE=  3  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     24.943  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

```
WARNING SECNO=    24.943  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    24.943  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    25.048  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.048  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.048  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    25.048  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.048  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.048  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    25.048  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.048  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.048  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    25.163  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    25.163  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    25.163  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    25.374  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.374  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.374  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    25.374  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.374  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.374  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    25.374  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.374  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.374  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    25.434  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.434  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.434  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    25.434  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.434  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.434  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    25.434  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.434  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.434  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    25.500  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    25.500  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    25.500  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    25.523  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    25.523  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    25.523  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    25.534  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.534  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.534  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    25.534  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.534  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.534  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
```

```
CAUTION SECNO=     25.534  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.534  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.534  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     25.551  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     25.551  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.551  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     25.551  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.551  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     25.680  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.680  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.786  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.786  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.786  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     25.786  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.786  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.786  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     25.786  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.786  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.786  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     26.265  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.265  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.265  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.265  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.265  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.265  PROFILE=  3  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     26.372  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.372  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.372  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.492  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.492  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.492  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.582  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.582  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.582  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     26.673  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.673  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.673  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     26.673  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.673  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.673  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     26.673  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.673  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.673  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
```

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CAUTION SECNO=     26.784  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.784  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.784  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.784  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.784  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     26.784  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.784  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.784  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     26.883  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.883  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.883  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.984  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.984  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.984  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     27.060  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.060  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.060  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     27.060  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.060  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.060  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     27.060  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.060  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.060  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     27.166  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     27.166  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     27.166  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .029  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .029  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .029  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=       .029  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .029  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .029  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=       .029  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .029  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .029  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=       .112  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .112  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .112  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .288  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .288  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .288  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .288  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .288  PROFILE=  3  CRITICAL DEPTH ASSUMED
```

```
CAUTION SECNO=      .288  PROFILE=  3  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      .398  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .398  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .398  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .482  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .482  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .482  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .482  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .482  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .482  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .482  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .482  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .482  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .575  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .826  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .826  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .826  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .826  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .826  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .826  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .826  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .826  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .826  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .945  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .945  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .945  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.204  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     1.204  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.204  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.204  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.204  PROFILE=  3  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     1.315  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.315  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.315  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

NOTE    SECNO=     1.420  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=     1.420  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=     1.420  PROFILE=  2  WSEL BASED ON X5 CARD
NOTE    SECNO=     1.420  PROFILE=  3  WSEL BASED ON X5 CARD
```

APPENDIX "D"

SUPERCRITICAL HEC-2 PROFILE OUTPUT, ACDC TO SEDIMENT BASIN

```
****************************************************
*  WATER SURFACE PROFILES                          *
*  DEVELOPED BY THE COE                            *
*  VERSION OF SEPTEMBER 1988                       *
*  ERROR: 01,02,03                                 *
*  RUN DATE     3/12/91   TIME    9:12:20          *
****************************************************
```


```
*************************************
*  DODSON & ASSOCIATES, INC.        *
*  HYDROLOGIST AND CIVIL ENGINEERS  *
*  5629 FM 1960 WEST SUITE 314      *
*  HOUSTON, TEXAS  77069            *
*  (713) 440-3787 Fax (713) 440-4742 *
*************************************
```


```
X     X  XXXXXXX   XXXXX            XXXXX
X     X  X       X    X           X    X
X     X  X       X                     X
XXXXXXX  XXXX     X         XXXXX   XXXXX
X     X  X       X                X
X     X  X       X    X           X
X     X  XXXXXXX   XXXXX           XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 3/12/91 9:12:20

```
**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          10 YEAR

        CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
        ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
        AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
        ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
        BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
        DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
        FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
        THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
        AND 100 YEAR FLOODS.

        FILE LAST MODIFIED 1/26/90

        SUPERCRITICAL   FROM ACDC TO SPILLWAY OF SEDIMENENT BASIN
        FOR SECTIONS 17.206 TO 16.988 AND 15.204 TO 15.015, REFER
        TO SUBCRITICAL RUN


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2.                 1.      -1.                           1271.19

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1.                -1.


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.       42.       1.       53.       54.       4.       8.       43.       10.       51.
    46.       40.      41.

NC    0.015     0.015     0.015      0.1       0.3
QT      3.    10200.    15700.    18000.

        UPSTREAM EDGE OF SEDIMENT BASIN SPILLWAY, CRITICAL DEPTH ASSUMED
        USE COE RATING CURVE FOR ELEV. IN BASIN - SEE SUBCRITICAL RUN
```

```
X1   17.206      4.      9875.    10125.      769.      769.      769.
GR    1279.    9875.      1267.     9900.     1267.    10100.     1279.    10125.

X1   17.061      8.     9938.3   10064.7      385.      385.      385.
GR   1271.3   9938.3     1261.1    9958.7   1260.51   9988.2   1256.61     9996.   1256.61    10004.
GR   1260.5  10011.8     1261.1   10041.3   1271.79  10064.7

        CACTUS ROAD (SPECIAL BRIDGE)

X1   16.988      8.     9938.3   10063.9       90.       90.       90.
GR   1269.7   9938.3    1259.48    9958.7   1258.83   9991.1   1256.41     9996.   1256.41    10004.
GR   1258.8  10008.9    1259.48   10041.3   1270.17  10063.9

SB     0.9     1.56        3.       100.     82.57        6.     1513.      1.61   1258.71   1258.33
X1   16.971      8.     9938.3   10064.7      364.      364.      364.
        ELTRD IS 1275.25 + 2.6 HV = 1277.8
X2                         1.   1273.75    1277.8
GR   1269.3   9938.3    1259.09    9958.7   1258.43   9991.2   1256.36     9996.   1256.36    10004.
GR   1258.4  10007.9    1259.09   10041.3   1270.78  10064.7

X1   16.902      9.      9940.    10063.      417.      417.      417.
GR   1268.8   9940.     1257.58    9962.5   1256.93   9994.5   1256.19     9996.   1256.19    10004.
GR   1256.9  10005.5    1257.58   10037.5   1269.33  10062.2   1270.33    10063.

X1   16.823      7.      9945.    10056.      681.      681.      681.                2.88
GR   1263.9   9945.     1262.92    9945.8   1252.92    9967.   1252.26    10000.   1252.92    10033.
GR   1263.4  10055.2    1264.42   10056.

X1   16.694                                   491.      491.      491.               -2.88

X1   16.601      7.      9945.    10052.      634.      634.      634.                2.67
GR   1261.2   9945.     1260.17    9945.8   1248.17    9971.   1247.59    10000.   1248.17    10029.
GR   1259.7  10052.     1261.3    10087.

X1   16.481      6.      9945.    10052.      570.      570.      570.
GR   1261.2   9945.     1260.17    9945.8   1248.17    9971.   1247.59    10000.   1248.17    10029.
GR   1259.7  10052.

QT      3.  10300.     16100.    18500.
X1   16.373      7.      9946.    10053.      576.      576.      576.                7.81
GR   1252.5   9946.     1251.45    9946.8   1237.95    9975.   1237.45    10000.   1237.95    10025.
GR   1250.9  10052.2    1251.95   10053.

X1   16.264                                   612.      612.      612.               -2.43

X1   16.148                                   660.      660.      660.               -2.59

X1   16.023                                   444.      444.      444.               -2.79
        PEORIA ROAD (SPECIAL BRIDGE)
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X1   15.939       5.     9938.    10062.       90.       90.       90.                1.35
GR   1244.7    9938.   1234.71     9958.   1233.87    10000.   1234.71    10042.   1244.71    10062.

SB     0.9     1.56        3.      100.    82.32        6.     1447.      1.84   1235.45   1235.07
X1   15.921                                  227.      227.      227.               -0.38
       ELTRD IS 1251.1 + 2.5 HV = 1253.6
X2                         1.    1249.6   1253.6                          1.33

X1   15.878                                 1045.     1045.     1045.               -0.97

X1   15.680       5.    9941.5   10060.5     792.      792.      792.                3.35
GR   1237.5   9941.5   1226.98    9962.5   1226.2    10000.   1226.95   10037.5   1238.45   10060.5

X1   15.530                                  400.      400.      400.               -3.35

X1   15.454       5.    9967.5   10032.6     762.      762.      762.                0.38
GR   1229.5   9967.5   1207.53    9967.6   1206.88    10000.   1207.53   10032.5    1230.   10032.6

X1   15.310                                  560.      560.      560.               -0.38
       SECTION 15.310 IS THE LAST IN CAVE CREEK CHANNEL.  THE CONFLUENCE
       OCCURS AT RM 15.263.  THE FOLLOWING SECTIONS ARE IN THE ACOC

X1   15.204       5.     9945.    10055.     500.      500.      500.                 0.5
GR   1228.3    9945.   1206.79    9945.1   1205.69    10000.   1206.79    10055.   1226.29   10055.1

X1   15.109                                  500.      500.      500.               -0.25

X1   15.015                                                                         -0.25
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```
   SECNO    DEPTH    CWSEL    CRIWS    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


 *PROF 1
0

 CCHV=     .100 CEHV=     .300
 *SECNO 17.206
 3720 CRITICAL DEPTH ASSUMED
   17.206     4.26  1271.26  1271.26  1271.19  1273.30     2.04      .00      .00  1279.00
   10200.      0.   10200.      0.       0.     889.       0.       0.       0.   1279.00
      .00     .00    11.47     .00     .000     .015     .000     .000  1267.00  9891.13
  .002080      0.       0.       0.       0        4        0      .00   217.73 10108.87


 *SECNO 17.061

 3301 HV CHANGED MORE THAN HVINS

   17.061     9.76  1266.37  1267.44     .00  1271.06     4.69     1.98      .26  1271.30
   10200.      0.   10200.      0.       0.     587.       0.      13.       3.   1271.79
      .01     .00    17.38     .00     .000     .015     .000     .000  1256.61  9948.15
  .003256    769.     769.    769.       5       23        0      .00   104.69 10052.84


 *SECNO 16.988
   16.988     8.56  1264.97  1266.12     .00  1269.77     4.80     1.28      .01  1269.70
   10200.      0.   10200.      0.       0.     580.       0.      18.       4.   1270.17
      .02     .00    17.58     .00     .000     .015     .000     .000  1256.41  9947.74
  .003383    385.     385.    385.       8        5        0      .00   105.18 10052.91



 SPECIAL BRIDGE

 5290 UPSTREAM ELEV IS    1268.31 ,NOT    1264.97 NEW BACKWATER REQUIRED

 SB  XK       XKOR     COFQ     ROLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
      .90     1.56     3.00    100.00    82.57     6.00  1513.00     1.61  1258.71  1258.33

 *SECNO 16.971
 CLASS B LOW FLOW

 3420 BRIDGE W.S.=    1266.26 BRIDGE VELOCITY=     14.79     CALCULATED CHANNEL AREA=      670.
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SECNO	DEPTH	CWSEL	CRIWS	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

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1269.55	.00	0.	10200.	1513.	1516.	1273.75	1277.80	0.

16.971	8.16	1264.52	.00	.00	1269.55	5.03	.22	.00	1269.30
10200.	0.	10200.	0.	0.	567.	0.	19.	4.	1270.78
.02	.00	18.00	.00	.000	.015	.000	.000	1256.36	9947.85
.003616	90.	90.	90.	0	0	0	.00	104.33	10052.17

*SECNO 16.902

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

16.902	8.71	1264.90	1264.90	.00	1268.25	3.35	.92	.49	1268.80
10200.	0.	10200.	0.	0.	694.	0.	25.	5.	1270.33
.03	.00	14.70	.00	.000	.015	.000	.000	1256.19	9947.83
.001859	364.	364.	364.	20	8	0	.00	105.05	10052.88

*SECNO 16.823

3301 HV CHANGED MORE THAN HVINS

16.823	8.09	1263.23	1263.76	.00	1267.31	4.08	.86	.07	1266.78
10200.	0.	10200.	0.	0.	629.	0.	31.	6.	1267.30
.03	.00	16.21	.00	.000	.015	.000	.000	1255.14	9951.24
.002329	417.	417.	417.	4	5	0	.00	97.50	10048.74

*SECNO 16.694

3301 HV CHANGED MORE THAN HVINS

16.694	7.01	1259.27	1260.89	.00	1265.11	5.84	2.03	.18	1263.90
10200.	0.	10200.	0.	0.	526.	0.	40.	7.	1264.42
.04	.00	19.39	.00	.000	.015	.000	.000	1252.26	9953.55
.003953	681.	681.	681.	7	8	0	.00	92.90	10046.44

SECNO	DEPTH	CWSEL	CRIWS	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

*SECNO 16.601

3301 HV CHANGED MORE THAN HVINS

16.601	8.47	1258.73	1259.45	.00	1263.18	4.45	1.51	.42	1263.87
10200.	0.	10200.	0.	0.	603.	0.	46.	8.	1262.37
.05	.00	16.92	.00	.000	.015	.000	.000	1250.26	9954.41
.002450	491.	491.	491.	8	11	0	.00	90.34	10044.76

*SECNO 16.481

3301 HV CHANGED MORE THAN HVINS

16.481	7.53	1255.12	1256.78	.00	1261.12	6.00	1.91	.15	1261.20
10200.	0.	10200.	0.	0.	519.	0.	55.	10.	1259.70
.06	.00	19.65	.00	.000	.015	.000	.000	1247.59	9956.40
.003786	634.	634.	634.	7	8	0	.00	86.47	10042.87

*SECNO 16.373

3301 HV CHANGED MORE THAN HVINS

16.373	9.02	1254.28	1255.09	.00	1259.00	4.72	1.73	.38	1260.31
10300.	0.	10300.	0.	0.	591.	0.	62.	11.	1259.76
.07	.00	17.44	.00	.000	.015	.000	.000	1245.26	9957.20
.002504	570.	570.	570.	8	11	0	.00	85.70	10042.90

*SECNO 16.264

3301 HV CHANGED MORE THAN HVINS

16.264	8.15	1250.98	1252.67	.00	1257.13	6.15	1.73	.14	1257.88
10300.	0.	10300.	0.	0.	517.	0.	69.	12.	1257.33
.08	.00	19.91	.00	.000	.015	.000	.000	1242.83	9959.02
.003661	576.	576.	576.	7	8	0	.00	82.04	10041.06

*SECNO 16.148

16.148	7.95	1248.19	1250.07	.00	1254.74	6.55	2.34	.04	1255.29
10300.	0.	10300.	0.	0.	501.	0.	76.	13.	1254.74
.09	.00	20.55	.00	.000	.015	.000	.000	1240.24	9959.44
.004010	612.	612.	612.	7	11	0	.00	81.21	10040.65

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SECNO     DEPTH     CWSEL     CRIWS     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


*SECNO 16.023
  16.023     7.88  1245.33  1247.28      .00  1252.04      6.71      2.69       .02  1252.50
  10300.       0.   10300.       0.       0.     496.       0.       84.       14.   1251.95
     .09      .00     20.79      .00     .000     .015     .000     .000  1237.45  9959.58
 .004147     660.     660.     660.       7       11        0       .00    80.91 10040.50


*SECNO 15.939

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.45

  15.939     5.11  1240.33  1242.97      .00  1249.24      8.91      2.58       .22  1246.05
  10300.       0.   10300.       0.       0.     430.       0.       89.       15.   1246.06
     .10      .00     23.96      .00     .000     .015     .000     .000  1235.22  9949.46
 .008713     444.     444.     444.       7        5        0       .00   101.07 10050.53


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     .90      1.56      3.00    100.00     82.32      6.00   1447.00      1.84   1235.45   1235.07

*SECNO 15.921

3301 HV CHANGED MORE THAN HVINS

CLASS C LOW FLOW

3420 BRIDGE W.S.=    1241.11 BRIDGE VELOCITY=      20.23     CALCULATED CHANNEL AREA=      491.

 EGPRS     EGLWC     H3        QWEIR     QLOW      BAREA   TRAPEZOID     ELLC      ELTRD     WEIRLN
                                                             AREA
      .00  1247.67      .00        0.   10300.     1447.     1448.     1249.60   1253.60        0.


  15.921     5.56  1240.40      .00       .00  1247.67      7.27      1.57       .00  1245.67
  10300.       0.   10300.       0.       0.     476.       0.       89.       15.   1245.68
     .10      .00     21.63      .00     .000     .015     .000     .000  1234.84  9948.56
 .006364     90.      90.      90.        0        0        0       .00   102.88 10051.44
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SECNO	DEPTH	CWSEL	CRIWS	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

*SECNO 15.878

3301 HV CHANGED MORE THAN HVINS

15.878	5.88	1239.75	1241.66	.00	1246.09	6.34	1.30	.28	1244.70
10300.	0.	10300.	0.	0.	510.	0.	92.	16.	1244.71
.10	.00	20.21	.00	.000	.015	.000	.000	1233.87	9947.91
.005163	227.	227.	227.	8	11	0	.00	104.18	10052.08

*SECNO 15.680

3301 HV CHANGED MORE THAN HVINS

15.680	7.09	1236.64	1237.78	.00	1241.48	4.84	4.16	.45	1240.85
10300.	0.	10300.	0.	0.	583.	0.	105.	18.	1241.80
.12	.00	17.66	.00	.000	.015	.000	.000	1229.55	9949.90
.003161	1045.	1045.	1045.	5	11	0	.00	100.28	10050.18

*SECNO 15.530

3301 HV CHANGED MORE THAN HVINS

15.530	6.61	1232.81	1234.45	.00	1238.56	5.75	2.83	.09	1237.50
10300.	0.	10300.	0.	0.	535.	0.	115.	20.	1238.45
.13	.00	19.24	.00	.000	.015	.000	.000	1226.20	9950.86
.004086	792.	792.	792.	7	8	0	.00	98.36	10049.22

*SECNO 15.454

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.44

15.454	4.56	1211.82	1216.79	.00	1233.66	21.84	3.29	1.61	1229.88
10300.	0.	10300.	0.	0.	275.	0.	119.	21.	1230.38
.14	.00	37.50	.00	.000	.015	.000	.000	1207.26	9967.58
.024363	400.	400.	400.	6	11	0	.00	64.94	10032.52

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 15.310

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .46

   15.310     7.30  1214.18  1216.38      .00  1222.22     8.04     7.30     4.14  1229.50
   10300.      0.   10300.      0.       0.     453.      0.     125.      22.   1230.00
      .14     .00    22.76     .00     .000     .015     .000     .000  1206.88  9967.57
  .005081    762.     762.    762.        6       17        0      .00    64.96 10032.53


*SECNO 15.204
   15.204     4.76  1210.95  1213.22      .00  1218.64     7.69     3.47      .11  1228.80
   10300.      0.   10300.      0.       0.     463.      0.     131.      23.   1207.29
      .15     .00    22.25     .09     .000     .015     .015     .000  1206.19  9945.08
  .007746    560.     560.    560.        7        8        0      .00   109.94 10055.02


*SECNO 15.109

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.109     7.04  1212.98  1212.98      .00  1216.22     3.24     1.69     1.78  1228.55
   10300.      0.   10300.      0.       0.     713.      0.     138.      24.   1207.04
      .16     .00    14.45     .04     .000     .015     .015     .000  1205.94  9945.07
  .001887    500.     500.    500.       20       11        0      .00   109.96 10055.03


*SECNO 15.015
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   15.015     7.01  1212.70  1212.70      .00  1215.97     3.27      .95      .58  1228.30
   10300.      0.   10300.      0.       0.     710.      0.     146.      26.   1206.79
      .17     .00    14.51     .04     .000     .015     .015     .000  1205.69  9945.07
  .001912    500.     500.    500.       20        5        0      .00   109.96 10055.03
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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          50 YEAR

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

                3.                 1.      -1.                            1272.53

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     2.                -1.
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   SECNO    DEPTH    CWSEL    CRIWS    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


 *PROF 2
0

CCHV=     .100 CEHV=     .300
*SECNO 17.206
3720 CRITICAL DEPTH ASSUMED
   17.206     5.65  1272.65  1272.65  1272.53  1275.32     2.68      .00      .00  1279.00
   15700.       0.   15700.       0.       0.    1196.       0.       0.       0.   1279.00
      .00      .00    13.13      .00     .000     .015     .000     .000  1267.00  9888.23
  .001904       0.       0.       0.        0        4        0      .00   223.54 10111.77


*SECNO 17.061

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   17.061    13.13  1269.74  1269.74      .00  1273.87     4.13     1.41      .98  1271.30
   15700.       0.   15700.       0.       0.     963.       0.      19.       3.   1271.79
      .01      .00    16.30      .00     .000     .015     .000     .000  1256.61  9941.42
  .001772     769.     769.     769.       20       20        0      .00   118.78 10060.21


*SECNO 16.988

3301 HV CHANGED MORE THAN HVINS

   16.988    10.75  1267.16  1268.39      .00  1272.86     5.70      .85      .16  1269.70
   15700.       0.   15700.       0.       0.     819.       0.      27.       4.   1270.17
      .02      .00    19.16      .00     .000     .015     .000     .000  1256.41  9943.38
  .002849     385.     385.     385.        6       11        0      .00   114.15 10057.53


SPECIAL BRIDGE

5290 UPSTREAM ELEV IS    1271.18 ,NOT    1267.16 NEW BACKWATER REQUIRED
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SECNO	DEPTH	CWSEL	CRIWS	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

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	82.57	6.00	1513.00	1.61	1258.71	1258.33

*SECNO 16.971

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1268.66 BRIDGE VELOCITY= 16.67 CALCULATED CHANNEL AREA= 921.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1272.77	.00	0.	15700.	1513.	1516.	1273.75	1277.80	0.

16.971	10.15	1266.51	.00	.00	1272.77	6.25	.09	.00	1269.30
15700.	0.	15700.	0.	0.	782.	0.	29.	4.	1270.78
.02	.00	20.07	.00	.000	.015	.000	.000	1256.36	9943.87
.003247	90.	90.	90.	0	0	0	.00	112.30	10056.16

*SECNO 16.902

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3710 WSEL ASSUMED BASED ON MIN DIFF

16.902	10.63	1266.82	1267.26	.00	1271.51	4.69	.92	.41	1268.80
15700.	0.	15700.	0.	0.	903.	0.	36.	5.	1270.33
.03	.00	17.38	.00	.000	.015	.000	.000	1256.19	9943.98
.002029	364.	364.	364.	20	8	0	.00	112.94	10056.92

*SECNO 16.823

16.823	10.50	1265.64	1266.21	.00	1270.62	4.98	.86	.03	1266.78
15700.	0.	15700.	0.	0.	877.	0.	44.	6.	1267.30
.03	.00	17.90	.00	.000	.015	.000	.000	1255.14	9946.13
.002104	417.	417.	417.	5	8	0	.00	107.73	10053.85

*SECNO 16.694

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	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
16.694	9.09	1261.35	1263.33	.00	1268.55	7.20	1.84	.22	1263.90
15700.	0.	15700.	0.	0.	729.	0.	57.	8.	1264.42
.04	.00	21.54	.00	.000	.015	.000	.000	1252.26	9949.13
.003594	681.	681.	681.	8	8	0	.00	101.73	10050.86

*SECNO 16.601

3301 HV CHANGED MORE THAN HVINS

16.601	11.01	1261.27	1262.01	.00	1266.64	5.37	1.36	.55	1263.87
15700.	0.	15700.	0.	0.	844.	0.	66.	9.	1262.37
.05	.00	18.60	.00	.000	.015	.000	.000	1250.26	9949.11
.002205	491.	491.	491.	9	11	0	.00	100.68	10049.79

*SECNO 16.481

3301 HV CHANGED MORE THAN HVINS

16.481	9.74	1257.33	1259.37	.00	1264.71	7.38	1.73	.20	1261.20
15700.	0.	15700.	0.	0.	720.	0.	77.	10.	1259.70
.06	.00	21.81	.00	.000	.015	.000	.000	1247.59	9951.76
.003473	634.	634.	634.	9	8	0	.00	95.51	10047.27

*SECNO 16.373

3301 HV CHANGED MORE THAN HVINS

16.373	12.47	1257.73	1257.91	.00	1262.57	4.84	1.38	.76	1260.31
16100.	0.	16100.	0.	0.	912.	0.	88.	12.	1259.76
.07	.00	17.65	.00	.000	.015	.000	.000	1245.26	9949.98
.001792	570.	570.	570.	9	11	0	.00	100.18	10050.16

*SECNO 16.264

3301 HV CHANGED MORE THAN HVINS

16.264	10.62	1253.45	1255.52	.00	1260.93	7.49	1.37	.26	1257.88
16100.	0.	16100.	0.	0.	733.	0.	99.	13.	1257.33
.07	.00	21.96	.00	.000	.015	.000	.000	1242.83	9953.85
.003310	576.	576.	576.	7	5	0	.00	92.41	10046.26

```
   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 16.148

3301 HV CHANGED MORE THAN HVINS

   16.148    10.27  1250.51  1252.89      .00  1258.70     8.20     2.16      .07  1255.29
   16100.       0.   16100.       0.       0.     701.       0.     109.      14.   1254.74
      .08      .00    22.98      .00     .000     .015     .000     .000  1240.24  9954.60
  .003764     612.     612.     612.        7       11        0      .00    90.92 10045.52


*SECNO 16.023
   16.023    10.10  1247.55  1250.10      .00  1256.11     8.55     2.56      .04  1252.50
   16100.       0.   16100.       0.       0.     686.       0.     119.      16.   1251.95
      .09      .00    23.47      .00     .000     .015     .000     .000  1237.45  9954.94
  .003999     660.     660.     660.        7       11        0      .00    90.24 10045.17


*SECNO 15.939

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.42

   15.939     6.66  1241.88  1245.36      .00  1253.38    11.50     2.44      .29  1246.05
   16100.       0.   16100.       0.       0.     592.       0.     126.      17.   1246.06
      .09      .00    27.21      .00     .000     .015     .000     .000  1235.22  9946.35
  .008009     444.     444.     444.        8        5        0      .00   107.28 10053.63


SPECIAL BRIDGE

SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
     .90     1.56     3.00    100.00    82.32     6.00  1447.00     1.84  1235.45  1235.07

*SECNO 15.921

3301 HV CHANGED MORE THAN HVINS

CLASS C LOW FLOW

3420 BRIDGE W.S.=    1242.86 BRIDGE VELOCITY=      23.45     CALCULATED CHANNEL AREA=      667.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	DLOSS	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

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1244.88	1251.54	.00	0.	16100.	1447.	1448.	1249.60	1253.60	0.

15.921	7.20	1242.04	.00	.00	1251.54	9.50	1.83	.00	1245.67
16100.	0.	16100.	0.	0.	651.	0.	127.	17.	1245.68
.09	.00	24.73	.00	.000	.015	.000	.000	1234.84	9945.26
.005999	90.	90.	90.	0	0	0	.00	109.47	10054.73

*SECNO 15.878

3301 HV CHANGED MORE THAN HVINS

15.878	7.48	1241.35	1244.02	.00	1250.03	8.68	1.27	.25	1244.70
16100.	0.	16100.	0.	0.	681.	0.	130.	18.	1244.71
.10	.00	23.64	.00	.000	.015	.000	.000	1233.87	9944.71
.005237	227.	227.	227.	12	11	0	.00	110.56	10055.27

*SECNO 15.680

3301 HV CHANGED MORE THAN HVINS

15.680	8.98	1238.53	1240.27	.00	1245.15	6.62	4.26	.62	1240.85
16100.	0.	16100.	0.	0.	780.	0.	148.	20.	1241.80
.11	.00	20.65	.00	.000	.015	.000	.000	1229.55	9946.13
.003259	1045.	1045.	1045.	7	11	0	.00	107.83	10053.96

*SECNO 15.530

3301 HV CHANGED MORE THAN HVINS

15.530	8.54	1234.74	1236.89	.00	1242.24	7.50	2.82	.09	1237.50
16100.	0.	16100.	0.	0.	732.	0.	162.	22.	1238.45
.12	.00	21.98	.00	.000	.015	.000	.000	1226.20	9947.01
.003918	792.	792.	792.	7	11	0	.00	106.07	10053.08

SECNO	DEPTH	CWSEL	CRIWS	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	IOC	ICONT	CORAR	TOPWID	ENDST

*SECNO 15.454

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.07

15.454	6.65	1213.91	1219.99	.00	1237.76	23.85	2.85	1.63	1229.88
16100.	0.	16100.	0.	0.	411.	0.	167.	23.	1230.38
.12	.00	39.19	.00	.000	.015	.000	.000	1207.26	9967.57
.016757	400.	400.	400.	11	11	0	.00	64.95	10032.53

*SECNO 15.310

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .55

15.310	9.67	1216.55	1219.59	.00	1227.47	10.92	6.41	3.88	1229.50
16100.	0.	16100.	0.	0.	607.	0.	176.	24.	1230.00
.13	.00	26.52	.00	.000	.015	.000	.000	1206.88	9967.56
.005042	762.	762.	762.	6	14	0	.00	64.98	10032.54

*SECNO 15.204

3301 HV CHANGED MORE THAN HVINS

15.204	5.89	1212.08	1215.47	.00	1223.76	11.68	3.64	.08	1228.80
16100.	0.	16100.	0.	0.	587.	0.	183.	25.	1207.29
.14	.00	27.42	.09	.000	.015	.015	.000	1206.19	9945.08
.008687	560.	560.	560.	8	8	0	.00	109.95	10055.02

*SECNO 15.109

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

SECNO	DEPTH	CWSEL	CRIWS	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
15.109	8.34	1214.28	1215.19	.00	1219.76	5.48	2.14	1.86	1228.55
16100.	0.	16100.	0.	0.	857.	0.	192.	26.	1207.04
.14	.00	18.79	.35	.000	.015	.015	.000	1205.94	9945.07
.002533	500.	500.	500.	5	14	0	.00	109.97	10055.04

*SECNO 15.015

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

15.015	9.26	1214.95	1214.95	.00	1219.34	4.39	1.05	.32	1228.30
16100.	0.	16100.	0.	0.	958.	0.	202.	28.	1206.79
.15	.00	16.81	.32	.000	.015	.015	.000	1205.69	9945.06
.001767	500.	500.	500.	20	8	0	.00	109.98	10055.04

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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATIONSTUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY  BURGESS & NIPLE
T3      CAVE CREEK WASH        100 YEAR

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4.                 1.      -1.                                1273.13

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15.               -1.
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   SECNO    DEPTH    CWSEL    CRIWS    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


*PROF 3
0

CCHV=     .100 CEHV=     .300
*SECNO 17.206
3720 CRITICAL DEPTH ASSUMED
   17.206     6.16  1273.16  1273.16  1273.13  1276.09     2.92      .00      .00  1279.00
   18000.      0.   18000.      0.       0.    1312.       0.       0.       0.   1279.00
      .00     .00    13.72     .00     .000     .015     .000     .000  1267.00  9887.16
  .001866      0.       0.       0.        0        4        0      .00   225.68 10112.84


*SECNO 17.061

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   17.061    13.97  1270.58  1270.58      .00  1275.02     4.44     1.38      .41  1271.30
   18000.      0.   18000.      0.       0.    1065.       0.      21.       3.   1271.79
      .01     .00    16.90     .00     .000     .015     .000     .000  1256.61  9939.73
  .001735    769.     769.    769.       20       20        0      .00   122.33 10062.06


*SECNO 16.988

3301 HV CHANGED MORE THAN HVINS

   16.988    11.51  1267.92  1269.25      .00  1274.02     6.10      .83      .17  1269.70
   18000.      0.   18000.      0.       0.     908.       0.      30.       4.   1270.17
      .02     .00    19.82     .00     .000     .015     .000     .000  1256.41  9941.85
  .002763    385.     385.    385.        6       11        0      .00   117.30 10059.15


SPECIAL BRIDGE

5290 UPSTREAM ELEV IS    1272.23 ,NOT    1267.92 NEW BACKWATER REQUIRED
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SECNO	DEPTH	CWSEL	CRIWS	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

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.50	1.56	3.00	100.00	82.57	6.00	1513.00	1.61	1258.71	1258.33

*SECNO 16.971

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1269.56 BRIDGE VELOCITY= 17.29 CALCULATED CHANNEL AREA= 1020.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1271.35	1273.95	.00	0.	18000.	1513.	1516.	1273.75	1277.80	0.

16.971	10.91	1267.27	.00	.00	1273.95	6.68	.08	.00	1269.30
18000.	0.	18000.	0.	0.	868.	0.	32.	4.	1270.78
.02	.00	20.74	.00	.000	.015	.000	.000	1256.36	9942.37
.003137	90.	90.	90.	0	0	0	.00	115.30	10057.67

*SECNO 16.902

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3710 WSEL ASSUMED BASED ON MIN DIFF

16.902	11.47	1267.66	1268.14	.00	1272.69	5.03	.90	.50	1268.80
18000.	0.	18000.	0.	0.	1001.	0.	39.	5.	1270.33
.02	.00	17.99	.00	.000	.015	.000	.000	1256.19	9942.28
.001981	364.	364.	364.	20	8	0	.00	116.42	10058.70

*SECNO 16.823

16.823	11.43	1266.57	1267.05	.00	1271.83	5.27	.83	.02	1266.78
18000.	0.	18000.	0.	0.	977.	0.	49.	6.	1267.30
.03	.00	18.42	.00	.000	.015	.000	.000	1255.14	9945.17
.002000	417.	417.	417.	5	8	0	.00	110.25	10055.42

*SECNO 16.694

3301 HV CHANGED MORE THAN HVINS

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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   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   IOC      ICONT    CORAR    TOPWID     ENDST

 16.694     9.85  1262.11  1264.17      .00  1269.82     7.71     1.77      .24  1263.90
 18000.      0.   18000.      0.       0.     808.      0.      63.       8.   1264.42
    .04     .00    22.28     .00     .000     .015     .000     .000  1252.26  9947.51
.003506    681.    681.     681.       8        8        0      .00   104.97 10052.48


*SECNO 16.601

3301 HV CHANGED MORE THAN HVINS

 16.601    11.91  1262.17  1263.00      .00  1267.90     5.73     1.33      .59  1263.87
 18000.      0.   18000.      0.       0.     937.      0.      73.       9.   1262.37
    .05     .00    19.21     .00     .000     .015     .000     .000  1250.26  9947.20
.002152    491.    491.     491.      12       11        0      .00   104.40 10051.61


*SECNO 16.481

3301 HV CHANGED MORE THAN HVINS

 16.481    10.56  1258.15  1260.26      .00  1266.00     7.85     1.69      .21  1261.20
 18000.      0.   18000.      0.       0.     801.      0.      85.      11.   1259.70
    .05     .00    22.48     .00     .000     .015     .000     .000  1247.59  9950.02
.003368    634.    634.     634.       9        8        0      .00    98.91 10048.93


*SECNO 16.373

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3710 WSEL ASSUMED BASED ON MIN DIFF
 16.373    13.38  1258.64  1258.91      .00  1263.91     5.28     1.37      .76  1260.31
 18500.      0.   18500.      0.       0.    1004.      0.      97.      12.   1259.76
    .06     .00    18.43     .00     .000     .015     .000     .000  1245.26  9948.10
.001811    570.    570.     570.      20       11        0      .00   103.94 10052.04


*SECNO 16.264

3301 HV CHANGED MORE THAN HVINS

 16.264    11.51  1254.34  1256.53      .00  1262.29     7.94     1.36      .27  1257.88
 18500.      0.   18500.      0.       0.     818.      0.     109.      13.   1257.33
    .07     .00    22.62     .00     .000     .015     .000     .000  1242.83  9951.98
.003211    576.    576.     576.       8        5        0      .00    96.17 10048.15
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SECNO	DEPTH	CWSEL	CRIWS	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

*SECNO 16.148

3301 HV CHANGED MORE THAN HVINS

16.148	11.11	1251.35	1253.89	.00	1260.10	8.75	2.10	.08	1255.29
18500.	0.	18500.	0.	0.	779.	0.	120.	15.	1254.74
.08	.00	23.74	.00	.000	.015	.000	.000	1240.24	9952.82
.003680	612.	612.	612.	8	11	0	.00	94.47	10047.30

*SECNO 16.023

16.023	10.92	1248.37	1251.10	.00	1257.55	9.18	2.51	.04	1252.50
18500.	0.	18500.	0.	0.	761.	0.	132.	16.	1251.95
.08	.00	24.31	.00	.000	.015	.000	.000	1237.45	9953.23
.003938	660.	660.	660.	7	11	0	.00	93.65	10046.88

*SECNO 15.939

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.40

15.939	7.24	1242.46	1246.21	.00	1254.84	12.38	2.39	.32	1246.05
18500.	0.	18500.	0.	0.	655.	0.	139.	17.	1246.06
.09	.00	28.23	.00	.000	.015	.000	.000	1235.22	9945.18
.007766	444.	444.	444.	8	5	0	.00	109.63	10054.81

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	82.32	6.00	1447.00	1.84	1235.45	1235.07

*SECNO 15.921

3301 HV CHANGED MORE THAN HVINS

CLASS C LOW FLOW

3420 BRIDGE W.S.= 1243.52 BRIDGE VELOCITY= 24.46 CALCULATED CHANNEL AREA= 736.

SECNO	DEPTH	CWSEL	CRIWS	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

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1246.42	1252.92	.00	0.	18500.	1447.	1448.	1249.60	1253.60	0.

15.921	7.83	1242.67	.00	.00	1252.92	10.26	1.92	.00	1245.67
18500.	0.	18500.	0.	0.	720.	0.	141.	17.	1245.68
.09	.00	25.70	.00	.000	.015	.000	.000	1234.84	9944.01
.005852	90.	90.	90.	0	0	0	.00	111.96	10055.97

*SECNO 15.878

3301 HV CHANGED MORE THAN HVINS

15.878	8.08	1241.95	1244.85	.00	1251.44	9.49	1.25	.23	1244.70
18500.	0.	18500.	0.	0.	748.	0.	144.	18.	1244.71
.09	.00	24.72	.00	.000	.015	.000	.000	1233.87	9943.51
.005211	227.	227.	227.	13	11	0	.00	112.97	10056.48

*SECNO 15.680

3301 HV CHANGED MORE THAN HVINS

15.680	9.65	1239.20	1241.15	.00	1246.51	7.30	4.28	.66	1240.85
18500.	0.	18500.	0.	0.	853.	0.	164.	21.	1241.80
.11	.00	21.68	.00	.000	.015	.000	.000	1229.55	9944.79
.003301	1045.	1045.	1045.	7	11	0	.00	110.52	10055.31

*SECNO 15.530

3301 HV CHANGED MORE THAN HVINS

15.530	9.23	1235.43	1237.77	.00	1243.59	8.16	2.83	.09	1237.50
18500.	0.	18500.	0.	0.	807.	0.	179.	23.	1238.45
.12	.00	22.92	.00	.000	.015	.000	.000	1226.20	9945.62
.003883	792.	792.	792.	7	11	0	.00	108.85	10054.47

SECNO	DEPTH	CWSEL	CRIWS	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

*SECNO 15.454

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.96

15.454	7.51	1214.77	1221.20	.00	1239.23	24.47	2.73	1.63	1229.88
18500.	0.	18500.	0.	0.	466.	0.	185.	24.	1230.38
.12	.00	39.69	.00	.000	.015	.000	.000	1207.26	9967.57
.014962	400.	400.	400.	12	11	0	.00	64.96	10032.53

*SECNO 15.310

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .58

15.310	10.63	1217.51	1220.78	.00	1229.37	11.85	6.08	3.78	1229.50
18500.	0.	18500.	0.	0.	670.	0.	195.	25.	1230.00
.13	.00	27.63	.00	.000	.015	.000	.000	1206.88	9967.55
.004951	762.	762.	762.	6	14	0	.00	64.99	10032.54

*SECNO 15.204

3301 HV CHANGED MORE THAN HVINS

15.204	6.34	1212.53	1216.32	.00	1225.62	13.09	3.62	.12	1228.80
18500.	0.	18500.	0.	0.	637.	0.	203.	26.	1207.29
.13	.00	29.04	.09	.000	.015	.015	.000	1206.19	9945.08
.008778	560.	560.	560.	8	8	0	.00	109.95	10055.03

*SECNO 15.109

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .59

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	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
15.109	8.59	1214.53	1216.03	.00	1221.34	6.81	2.40	1.88	1228.55
18500.	0.	18500.	0.	0.	884.	0.	212.	27.	1207.04
.14	.00	20.94	.39	.000	.015	.015	.000	1205.94	9945.06
.003029	500.	500.	500.	7	14	0	.00	109.97	10055.04

*SECNO 15.015

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

15.015	10.13	1215.82	1215.82	.00	1220.61	4.79	1.12	.49	1228.30
18500.	0.	18500.	0.	0.	1054.	0.	223.	28.	1206.79
.15	.00	17.56	.33	.000	.015	.015	.000	1205.69	9945.06
.001714	500.	500.	500.	20	8	0	.00	109.99	10055.05

THIS RUN EXECUTED 3/12/91 9:12:37

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

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

CAVE CREEK WASH

SUMMARY PRINTOUT

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	17.206	1267.00	1271.26	9891.13	10108.87	217.73	4.26	10200.00	2.04	.00	.00	.00	.00
*	17.206	1267.00	1272.65	9888.23	10111.77	223.54	5.65	15700.00	2.68	.00	.00	.00	.00
*	17.206	1267.00	1273.16	9887.16	10112.84	225.68	6.16	18000.00	2.92	.00	.00	.00	.00
	17.061	1256.61	1266.37	9948.15	10052.84	104.69	9.76	10200.00	4.69	-4.88	.00	.00	.00
*	17.061	1256.61	1269.74	9941.42	10060.21	118.78	13.13	15700.00	4.13	-2.91	.00	.00	.00
*	17.061	1256.61	1270.58	9939.73	10062.06	122.33	13.97	18000.00	4.44	-2.58	.00	.00	.00
	16.988	1256.41	1264.97	9947.74	10052.91	105.18	8.56	10200.00	4.80	-1.40	.00	.00	.00
	16.988	1256.41	1267.16	9943.38	10057.53	114.15	10.75	15700.00	5.70	-2.58	.00	.00	.00
	16.988	1256.41	1267.92	9941.85	10059.15	117.30	11.51	18000.00	6.10	-2.66	.00	.00	.00
*	16.971	1256.36	1264.52	9947.85	10052.17	104.33	8.16	10200.00	5.03	-.45	.00	1277.80	1273.75
*	16.971	1256.36	1266.51	9943.87	10056.16	112.30	10.15	15700.00	6.25	-.64	.00	1277.80	1273.75
*	16.971	1256.36	1267.27	9942.37	10057.67	115.30	10.91	18000.00	6.68	-.66	.00	1277.80	1273.75
*	16.902	1256.19	1264.90	9947.83	10052.88	105.05	8.71	10200.00	3.35	.37	.00	.00	.00
*	16.902	1256.19	1266.82	9943.98	10056.92	112.94	10.63	15700.00	4.69	.30	.00	.00	.00
*	16.902	1256.19	1267.66	9942.28	10058.70	116.42	11.47	18000.00	5.03	.40	.00	.00	.00
	16.823	1255.14	1263.23	9951.24	10048.74	97.50	8.09	10200.00	4.08	-1.66	.00	.00	.00
	16.823	1255.14	1265.64	9946.13	10053.85	107.73	10.50	15700.00	4.98	-1.18	.00	.00	.00
	16.823	1255.14	1266.57	9945.17	10055.42	110.25	11.43	18000.00	5.27	-1.09	.00	.00	.00
	16.694	1252.26	1259.27	9953.55	10046.44	92.90	7.01	10200.00	5.84	-3.97	.00	.00	.00
	16.694	1252.26	1261.35	9949.13	10050.86	101.73	9.09	15700.00	7.20	-4.29	.00	.00	.00
	16.694	1252.26	1262.11	9947.51	10052.48	104.97	9.85	18000.00	7.71	-4.46	.00	.00	.00
	16.601	1250.26	1258.73	9954.41	10044.76	90.34	8.47	10200.00	4.45	-.53	.00	.00	.00
	16.601	1250.26	1261.27	9949.11	10049.79	100.68	11.01	15700.00	5.37	-.08	.00	.00	.00
	16.601	1250.26	1262.17	9947.20	10051.61	104.40	11.91	18000.00	5.73	.06	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	16.481	1247.59	1255.12	9956.40	10042.87	86.47	7.53	10200.00	6.00	-3.61	.00	.00	.00
	16.481	1247.59	1257.33	9951.76	10047.27	95.51	9.74	15700.00	7.38	-3.94	.00	.00	.00
	16.481	1247.59	1258.15	9950.02	10048.93	98.91	10.56	18000.00	7.85	-4.02	.00	.00	.00
	16.373	1245.26	1254.28	9957.20	10042.90	85.70	9.02	10300.00	4.72	-.84	.00	.00	.00
	16.373	1245.26	1257.73	9949.98	10050.16	100.18	12.47	16100.00	4.84	.40	.00	.00	.00
*	16.373	1245.26	1258.64	9948.10	10052.04	103.94	13.38	18500.00	5.28	.48	.00	.00	.00
	16.264	1242.83	1250.98	9959.02	10041.06	82.04	8.15	10300.00	6.15	-3.30	.00	.00	.00
	16.264	1242.83	1253.45	9953.85	10046.26	92.41	10.62	16100.00	7.49	-4.28	.00	.00	.00
	16.264	1242.83	1254.34	9951.98	10048.15	96.17	11.51	18500.00	7.94	-4.29	.00	.00	.00
	16.148	1240.24	1248.19	9959.44	10040.65	81.21	7.95	10300.00	6.55	-2.79	.00	.00	.00
	16.148	1240.24	1250.51	9954.60	10045.52	90.92	10.27	16100.00	8.20	-2.94	.00	.00	.00
	16.148	1240.24	1251.35	9952.82	10047.30	94.47	11.11	18500.00	8.75	-2.99	.00	.00	.00
	16.023	1237.45	1245.33	9959.58	10040.50	80.91	7.88	10300.00	6.71	-2.86	.00	.00	.00
	16.023	1237.45	1247.55	9954.94	10045.17	90.24	10.10	16100.00	8.55	-2.95	.00	.00	.00
	16.023	1237.45	1248.37	9953.23	10046.88	93.65	10.92	18500.00	9.18	-2.98	.00	.00	.00
*	15.939	1235.22	1240.33	9949.46	10050.53	101.07	5.11	10300.00	8.91	-5.00	.00	.00	.00
*	15.939	1235.22	1241.88	9946.35	10053.63	107.28	6.66	16100.00	11.50	-5.68	.00	.00	.00
*	15.939	1235.22	1242.46	9945.18	10054.81	109.63	7.24	18500.00	12.38	-5.90	.00	.00	.00
	15.921	1234.84	1240.40	9948.56	10051.44	102.88	5.56	10300.00	7.27	.07	.00	1253.60	1249.60
	15.921	1234.84	1242.04	9945.26	10054.73	109.47	7.20	16100.00	9.50	.17	.00	1253.60	1249.60
	15.921	1234.84	1242.67	9944.01	10055.97	111.96	7.83	18500.00	10.26	.20	.00	1253.60	1249.60
	15.878	1233.87	1239.75	9947.91	10052.08	104.18	5.88	10300.00	6.34	-.65	.00	.00	.00
	15.878	1233.87	1241.35	9944.71	10055.27	110.56	7.48	16100.00	8.68	-.70	.00	.00	.00
	15.878	1233.87	1241.95	9943.51	10056.48	112.97	8.08	18500.00	9.49	-.72	.00	.00	.00
	15.680	1229.55	1236.64	9949.90	10050.18	100.28	7.09	10300.00	4.84	-3.11	.00	.00	.00
	15.680	1229.55	1238.53	9946.13	10053.96	107.83	8.98	16100.00	6.62	-2.82	.00	.00	.00
	15.680	1229.55	1239.20	9944.79	10055.31	110.52	9.65	18500.00	7.30	-2.74	.00	.00	.00
	15.530	1226.20	1232.81	9950.86	10049.22	98.36	6.61	10300.00	5.75	-3.83	.00	.00	.00
	15.530	1226.20	1234.74	9947.01	10053.08	106.07	8.54	16100.00	7.50	-3.79	.00	.00	.00
	15.530	1226.20	1235.43	9945.62	10054.47	108.85	9.23	18500.00	8.16	-3.77	.00	.00	.00
*	15.454	1207.26	1211.82	9967.58	10032.52	64.94	4.56	10300.00	21.84	-20.99	.00	.00	.00
*	15.454	1207.26	1213.91	9967.57	10032.53	64.95	6.65	16100.00	23.85	-20.83	.00	.00	.00
*	15.454	1207.26	1214.77	9967.57	10032.53	64.96	7.51	18500.00	24.47	-20.67	.00	.00	.00
*	15.310	1206.88	1214.18	9967.57	10032.53	64.96	7.30	10300.00	8.04	2.36	.00	.00	.00
*	15.310	1206.88	1216.55	9967.56	10032.54	64.98	9.67	16100.00	10.92	2.64	.00	.00	.00
*	15.310	1206.88	1217.51	9967.55	10032.54	64.99	10.63	18500.00	11.85	2.75	.00	.00	.00
	15.204	1206.19	1210.95	9945.08	10055.02	109.94	4.76	10300.00	7.69	-3.22	.00	.00	.00
	15.204	1206.19	1212.08	9945.08	10055.02	109.95	5.89	16100.00	11.68	-4.47	.00	.00	.00
	15.204	1206.19	1212.53	9945.08	10055.03	109.95	6.34	18500.00	13.09	-4.98	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	15.109	1205.94	1212.98	9945.07	10055.03	109.96	7.04	10300.00	3.24	2.02	.00	.00	.00
*	15.109	1205.94	1214.28	9945.07	10055.04	109.97	8.34	16100.00	5.48	2.20	.00	.00	.00
*	15.109	1205.94	1214.53	9945.06	10055.04	109.97	8.59	18500.00	6.81	1.99	.00	.00	.00
*	15.015	1205.69	1212.70	9945.07	10055.03	109.96	7.01	10300.00	3.27	-.28	.00	.00	.00
*	15.015	1205.69	1214.95	9945.06	10055.04	109.98	9.26	16100.00	4.39	.67	.00	.00	.00
*	15.015	1205.69	1215.82	9945.06	10055.05	109.99	10.13	18500.00	4.79	1.30	.00	.00	.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=     17.206  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     17.206  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     17.206  PROFILE=  3  CRITICAL DEPTH ASSUMED

CAUTION SECNO=     17.061  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     17.061  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     17.061  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     17.061  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     17.061  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     17.061  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     16.971  PROFILE=  1  BRIDGE DROWNS U.S. PROFILE
                                        NEW BACKWATER REQUIRED
CAUTION SECNO=     16.971  PROFILE=  2  BRIDGE DROWNS U.S. PROFILE
                                        NEW BACKWATER REQUIRED
CAUTION SECNO=     16.971  PROFILE=  3  BRIDGE DROWNS U.S. PROFILE
                                        NEW BACKWATER REQUIRED

CAUTION SECNO=     16.902  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     16.902  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     16.902  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     16.902  PROFILE=  2  WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO=     16.902  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     16.902  PROFILE=  3  WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO=     16.902  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     16.373  PROFILE=  3  WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO=     16.373  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     15.939  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     15.939  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     15.939  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     15.454  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     15.454  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     15.454  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     15.310  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     15.310  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     15.310  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     15.109  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.109  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.109  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     15.109  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     15.109  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     15.015  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.015  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.015  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     15.015  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     15.015  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     15.015  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     15.015  PROFILE=  3  CRITICAL DEPTH ASSUMED
```

APPENDIX "E"

HEC-2 FLOODWAY OUTPUT,
MENT BASIN TO CAVE BUTTE DAM

```
**************************************************
*  WATER SURFACE PROFILES                        *
*  DEVELOPED BY THE COE                          *
*  VERSION OF SEPTEMBER 1988                     *
*  ERROR: 01,02,03                               *
*  RUN DATE     1/10/91   TIME   11:57:56        *
**************************************************
```

```
**************************************
*  DODSON & ASSOCIATES, INC.         *
*  HYDROLOGIST AND CIVIL ENGINEERS   *
*  5629 FM 1960 WEST SUITE 314       *
*  HOUSTON, TEXAS  77069             *
*  (713) 440-3787 Fax (713) 440-4742 *
**************************************
```

```
X     X  XXXXXXX   XXXXX             XXXXX
X     X  X       X     X           X     X
X     X  X       X                       X
XXXXXXX  XXXX     X         XXXXX   XXXXX
X     X  X       X                 X
X     X  X       X     X           X
X     X  XXXXXXX   XXXXX           XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 1/10/91 11:57:56

```
**************************************************
 HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
**************************************************


T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH        NATURAL 100-YR  J. MISCHLER

        CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
        ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
        AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
        ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
        BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
        DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
        FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
        THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
        AND 100 YEAR FLOODS.



        FLOODWAY RUN FROM SEDIMENT BASIN TO CAVE BUTTE DAM.

        FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL
        RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL. (NATURAL PROF)

        FLOW IS WITHIN THE CORPS OF ENGINEER'S CHANNEL, SEDIMENT BASIN, OR
        BROAD CRESTED WEIR INLET FROM RM15.015 TO 17.492, THEREFORE NO FLOODWAY
        IS RUN FOR THIS REACH.



        FILE LAST MODIFIED 11-26-90


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2.                                                              1283.69

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1.                 -1.                                                             15.


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.      42.       1.       53.      54.       4.       8.       43.      10.      51.
    46.      40.      41.               110.               200.
```

```
QT      2.     15400.     15400.
NC    0.04      0.04       0.04       0.1        0.3

        BEGIN ENCROACHMENTS UPSTREAM OF THE SEDIMENT BASIN

ET                         10.41
X1   17.588       25.      9982.     10193.      440.       560.       496.
GR   1291.4     9666.     1290.3      9746.     1275.6     9817.      1275.2     9835.      1273.5     9854.
GR   1277.8     9873.     1279.7      9889.     1277.3     9896.      1278.2     9909.      1281.6     9922.
GR   1281.9     9939.     1282.2      9964.     1278.1     9982.      1269.6     9992.      1270.6    10000.
GR   1270.9    10009.     1272.6     10014.     1273.6    10039.      1273.6    10079.      1271.2    10144.
GR   1271.2    10170.     1276.4     10193.     1290.5    10264.      1291.3    10328.       1291.    10495.

ET                          4.1       9900.     10150.
X1   17.662       23.      9941.     10130.      380.       400.       391.
GR   1293.1     9731.     1293.1      9781.     1291.6     9791.      1282.7     9835.      1278.1     9844.
GR   1279.2     9871.     1277.3      9911.     1276.4     9941.      1272.5     9986.      1271.6    10000.
GR   1274.6    10016.     1277.5     10033.     1278.8    10063.      1278.9    10086.      1276.8    10099.
GR   1275.7    10111.     1281.6     10130.     1285.2    10161.      1293.1    10208.       1294.    10221.
GR   1293.7    10281.      1294.     10400.     1294.5    10432.

ET                         10.41
X1   17.783       18.      9921.     10064.      540.       500.       639.
GR   1295.2     9812.      1294.      9837.     1291.3     9861.      1286.9     9895.      1280.5     9921.
GR   1276.8     9938.     1278.3      9954.     1277.6     9973.      1275.4    10000.      1276.3    10019.
GR   1277.4    10033.     1277.7     10045.     1281.1    10064.      1281.3    10074.      1284.6    10097.
GR   1289.8    10122.     1291.5     10143.     1291.9    10153.

X1   17.932       23.      9956.     10066.      790.       780.       787.
GR   1294.8     9675.     1294.7      9732.     1295.5     9750.      1293.6     9766.      1297.5     9792.
GR   1297.5     9837.     1298.3      9869.     1291.9     9896.      1289.7     9956.      1283.6     9966.
GR   1283.5     9971.     1277.9      9986.     1278.2    10000.      1278.2    10006.      1279.5    10008.
GR   1279.9    10022.     1280.2     10032.     1285.5    10054.      1290.2    10066.      1290.6    10083.
GR   1298.5    10131.     1299.7     10159.     1299.7    10193.

        THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT
        OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE,
        THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND
        ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS.  ENDS OF THE
        SECTIONS ARE ARTIFICIALLY EXTENDED.  BT'S ARE RAISED 0.5' FROM CENTER-
        LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.

                    4.1    9951.   10049.

NC    0.035      0.035      0.025       0.3        0.5
X1   18.042        8.      9951.     10049.      620.       550.       581.                   2.4
GR    1305.     9951.     1283.4      9952.     1282.9     9979.      1279.9     9980.      1279.9    10020.
GR   1281.9    10021.     1284.2     10048.      1305.    10049.
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SB    1.05      1.56       3.                  75.       4.      1059.      0.81     1280.2     1279.9
NC    0.03      0.03     0.025
                  4.11   9951.  10049.
X1   18.061                                    101.     101.      101.                 0.8

        ELTRO IS 1298.4+3.2HV =  1301.6

X2                          1.    1293.2     1301.6
BT      4.      9951.     1305.       0.      9952.    1298.4        0.     10048.    1298.4        0.
BT   10049.     1305.       0.

NC   0.035     0.035     0.035
ET                        4.1     9900.     10085.
X1   18.081      11.     9942.    10045.       80.     130.      106.
GR   1300.5    9819.    1300.2    9866.     1298.2    9899.    1286.6    9942.    1282.7     9960.
GR   1281.4   10000.    1281.1   10008.     1282.7   10030.    1284.9   10045.    1297.3    10088.
GR   1300.2   10112.

NC                              0.1        0.3
ET                        4.1     9857.     10125.
X1   18.174      29.     9919.    10073.      500.     490.      491.
GR   1303.6    9673.    1304.6    9713.     1307.3    9757.    1302.5    9801.     1302.     9850.
GR    1288.    9904.    1287.3    9915.     1288.7    9919.     1284.    9927.    1283.5     9956.
GR   1282.6    9975.    1283.5    9985.     1281.8    9992.    1281.7   10000.     1282.    10006.
GR   1282.3   10011.    1282.7   10020.     1294.6   10073.     1297.   10093.    1296.2    10113.
GR   1293.7   10142.    1293.7   10182.     1296.8   10236.    1299.3   10270.    1298.9    10295.
GR    1298.   10340.    1299.8   10364.      1298.   10396.    1301.1   10478.

ET                        4.1    9882.2     10110.
X1   18.269      12.     9942.    10060.      500.     500.      502.
GR   1303.8    9868.    1288.1    9928.     1288.4    9942.    1285.3    9952.    1283.8     9979.
GR   1283.8   10000.    1283.8   10010.     1285.6   10023.    1292.4   10060.     1294.    10071.
GR   1303.2   10130.    1303.7   10144.

ET                        4.1    9895.6    10107.8
X1   18.362      20.     9942.    10060.      490.     510.      491.
GR   1315.5    9728.    1315.4    9758.     1315.8    9780.    1310.6    9807.    1307.1     9862.
GR   1298.6    9905.    1290.     9942.     1287.8    9952.    1288.     9967.    1286.1     9971.
GR   1285.3   10000.    1286.8   10022.     1286.8   10036.    1290.6   10060.    1303.8    10124.
GR   1307.7   10151.    1307.5   10169.     1306.8   10183.    1308.1   10240.    1308.8    10283.

        DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
        ENDS AND EMBANKMENT SLOPES  (NO WINGWALLS).

ET                        4.1     9885.     10140.
X1   18.445      13.     9992.    10005.      470.     460.      440.
X3     10.                                                                1297.     1297.
GR   1315.1    9796.    1306.2    9880.     1300.     9920.    1299.5    9978.     1290.     9992.
GR   1287.3   10000.    1290.    10005.     1300.    10040.     1302.   10060.     1303.    10097.
GR    1305.   10200.    1305.6   10310.     1309.4   10330.
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SB      0.9      2.34       3.0        0.      6.11       1.0      33.2        0.    1287.7    1287.4
ET                          4.11     9885.    10140.
X1   18.456                                     60.       60.       60.                 0.4

        ELTRD IS 1198.8+0.7HV = 1199.5

X2                           1.     1294.2    1299.5
X3      10.                                                                   1298.8    1298.8
BT      10.     9796.    1315.5        0.     9880.    1306.6        0.     9928.    1301.9        0.
BT    9991.     1299.1      0.    10000.     1298.8        0.    10046.    1301.9        0.    10097.
BT   1303.4        0.   10200.     1305.4        0.    10310.     1306.        0.   10330.    1309.8
BT      0.

ET                           4.1    9881.4   10169.8
X1   18.545       21.     9951.    10058.      440.      480.      466.
GR   1324.2     9716.    1323.1     9748.    1324.4     9765.    1321.9     9790.    1318.3     9810.
GR    1317.     9839.    1306.7     9889.    1294.1     9951.    1291.5     9972.    1289.3     9993.
GR   1289.7    10000.    1289.7    10018.    1290.5    10040.    1293.8    10058.    1298.8    10073.
GR   1299.8    10094.    1303.4    10108.    1303.9    10121.     1303.    10135.    1310.1    10182.
GR   1310.2    10194.

        UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
        45 DEGREE WINGWALLS.

ET                           4.1    9880.7   10170.8
X1   18.575       21.     9972.    10000.      160.      160.      160.
X3      10.                                                                   1297.     1297.
GR   1324.2     9716.    1323.1     9748.    1324.4     9765.    1321.9     9790.    1318.3     9810.
GR    1317.     9839.    1306.7     9889.    1294.1     9951.    1291.5     9972.    1289.3     9993.
GR   1289.7    10000.    1289.7    10018.    1290.5    10040.    1293.8    10058.    1298.8    10073.
GR   1299.8    10094.    1303.4    10108.    1303.9    10121.     1303.    10135.    1310.1    10182.
GR   1310.2    10194.

SB     1.25      1.56       3.0        0.      10.4       1.0      56.5        0.    1289.4    1289.3
ET                          4.11    9876.1   10177.2
X1   18.583                                     40.       40.       40.                 0.1

        ELTRD IS 1298.4+0.6HV = 1299.0

X2                           1.     1295.4     1299.
X3      10.                                                                   1298.4    1298.4
BT       9.     9880.    1310.        0.     9965.    1300.        0.    10000.    1298.4        0.
BT   10037.     1300.       0.    10065.     1302.        0.    10085.     1304.        0.    10122.
BT    1306.        0.   10160.     1308.        0.    10170.     1310.        0.

ET                           4.1    9879.6   10134.7
X1   18.640       17.     9955.    10033.      300.      310.      301.
GR   1322.5     9707.    1323.7     9729.    1320.1     9768.    1313.8     9827.    1312.3     9858.
GR   1308.4     9887.    1302.6     9920.    1294.6     9955.    1292.8     9966.    1290.2     9993.
GR   1291.5    10000.    1291.8    10009.    1293.4    10033.    1307.8    10111.     1309.    10132.
GR   1312.1    10153.    1313.2    10167.
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ET                          4.1     9883.2    10111.7
X1   18.734       19.      9938.    10062.      490.      500.      496.
GR   1320.7     9713.    1316.3     9762.    1316.6     9809.    1319.2     9819.    1317.9     9841.
GR   1308.7     9888.    1298.6     9938.    1293.4     9971.    1294.2     9981.    1292.4     9992.
GR   1294.5    10000.    1294.4    10025.    1300.8    10062.     1309.    10094.    1307.6    10104.
GR   1312.9    10124.     1314.    10143.    1317.1    10178.    1319.9    10201.

ET                          4.1     9891.8    10107.
X1   18.832       21.      9929.    10046.      480.      540.      517.
GR   1326.2     9779.    1328.     9788.    1320.6     9826.     1316.     9853.    1312.5     9880.
GR   1302.8     9929.    1296.1     9960.    1293.5     9982.    1293.2    10000.    1293.2    10005.
GR   1294.8    10008.    1295.5    10027.    1297.1    10046.    1307.7    10095.    1314.1    10128.
GR   1314.1    10141.    1317.1    10187.    1320.3    10221.    1319.9    10247.    1318.6    10271.
GR   1319.2    10278.

ET                          4.1     9887.7    10087.5
X1   18.925       14.      9941.    10048.      480.      500.      491.
GR   1329.1     9741.    1315.9     9866.    1297.6     9941.    1297.3     9960.    1295.3     9989.
GR    1295.    10000.    1296.1    10006.    1295.4    10022.    1294.6    10025.    1296.3    10034.
GR    1300.    10048.    1310.5    10087.    1320.1    10132.    1321.3    10161.

ET                          4.1     9866.3    10038.5
X1   19.018       20.      9903.    10030.      460.      520.      491.
GR    1331.     9681.    1321.2     9775.    1313.9     9847.    1305.1     9903.    1298.1     9930.
GR    1298.     9948.    1298.1     9957.    1297.6     9974.     1299.    10000.    1308.4    10030.
GR   1325.3    10088.     1327.    10101.    1325.5    10109.    1330.2    10118.    1330.9    10124.
GR    1327.    10145.    1326.8    10211.    1328.8    10218.    1332.6    10260.    1331.8    10268.

ET                          4.1     9942.1    10061.9
X1   19.117       10.      9973.    10026.      490.      560.      523.
GR   1333.9     9803.    1331.8     9872.     1323.     9908.    1302.9     9973.    1299.2     9997.
GR   1298.7    10000.    1298.6    10010.    1301.5    10026.    1328.9    10116.     1333.    10144.

ET                          4.1     9923.1    10081.
X1   19.210       16.      9945.    10060.      500.      490.      491.
GR   1333.2     9669.    1330.6     9853.    1328.7     9874.     1312.     9945.     1310.     9954.
GR   1303.8     9978.    1301.4     9991.    1300.2    10000.    1301.3    10010.    1303.4    10026.
GR    1312.    10060.    1321.3    10098.     1327.    10127.    1332.5    10166.    1335.3    10191.
GR   1335.6    10192.

        19TH AVENUE  (SPECIAL BRIDGE)

NC                                  0.3       0.5
QT       2.    14600.    14600.
X1   19.283       12.      9948.    10057.      390.      390.      386.                11.2
X3      10.                                                                  1324.     1324.
GR   1333.2     9669.    1330.6     9853.    1328.7     9874.     1312.     9945.    1300.5     9948.
GR   1300.5    10057.     1312.    10060.    1321.3    10098.     1327.    10127.    1332.5    10166.
GR   1335.3    10191.    1335.6    10192.
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SB      0.9      1.56       3.                109.       4.5      1304.        0.     1311.7     1311.7
X1   19.299                                   86.       86.       86.

        ELTRD IS 1324.5+2HV = 1326.5

X2                          1.    1324.2    1326.5
X3      10.                                                                 1325.     1325.
BT       6.     9500.     1326.       0.     9650.    1324.5        0.     9855.    1325.3        0.
BT    10000.    1325.7       0.    10275.    1324.9       0.    10460.     1326.       0.

ET                        10.41
X1   19.313       20.     9932.    10112.      75.       75.       74.
GR    1329.     9853.    1326.7     9859.    1327.6     9866.    1327.9     9932.    1314.5     9968.
GR   1312.2     9980.    1311.7     9988.    1313.1     9996.    1313.1    10000.    1313.4    10017.
GR    1312.    10029.    1313.7    10044.    1311.7    10054.    1313.7    10069.    1325.5    10112.
GR   1325.4    10137.    1324.3    10180.    1324.9    10219.    1325.2    10325.    1326.6    10464.

NC                                    0.1       0.3
X1   19.418       19.     9948.    10120.     570.      530.      554.
GR   1330.8     9898.    1328.8     9902.    1330.6     9910.    1330.2     9938.     1328.     9948.
GR   1313.1     9992.    1313.1    10000.     1313.    10004.    1316.1    10022.    1314.6    10058.
GR   1315.5    10076.    1320.1    10094.    1326.1    10120.    1327.6    10138.    1327.5    10186.
GR   1326.2    10276.     1327.    10322.    1328.3    10376.    1328.6    10401.

        SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
        FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
        EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608

X1    19.56       17.     9929.    10065.     730.      720.      729.
GR   1346.1     9801.    1329.7     9902.    1329.7     9929.    1316.5     9950.    1316.8     9978.
GR   1315.6    10000.    1315.6    10008.    1316.6    10026.    1316.4    10035.    1317.5    10043.
GR   1330.6    10065.    1330.8    10099.    1330.5    10146.    1330.2    10195.    1330.9    10208.
GR   1331.2    10223.    1332.1    10301.

        GREENWAY BRIDGE  (SPECIAL BRIDGE).  LARGE SKEW ACCOUNTED FOR PRIOR
        TO DATA INPUT BY ADJUSTING BWC ETC.  DUE TO COMPLEX CHANNEL GEOMETRY
        DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE
        TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE.  GR CARDS
        FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7

QT       2.     5700.     5700.
NC    0.035     0.035     0.015       0.3       0.5
X1   19.625       11.     9965.    10025.     580.       70.      364.                  -1.7
X3      10.                                                                 1332.     1332.
GR   1335.7     9834.    1335.1     9893.    1333.4     9922.    1331.8     9937.    1331.6     9948.
GR   1319.3     9965.    1319.3    10025.     1331.    10042.    1339.2    10055.    1337.7    10060.
GR   1338.8    10100.
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SB    1.05      1.56       3.       100.       60.        2.       564.        0.     1318.6     1317.6
X1   19.691                                    330.      430.       350.                  1.0

       ELTRD IS 1332.8+2HV = 1334.8

X2                          1.     1328.3     1334.8
X3     10.                                                                   1333.      1333.

ET                          4.1     9953.     10038.
X1   19.742      13.      9948.    10042.       80.      470.       269.
GR   1335.7    9834.    1335.1     9893.     1333.4    9922.     1331.8     9937.     1331.6      9948.
GR   1319.1    9967.    1319.2    10000.     1319.7   10017.     1319.7    10027.      1331.     10042.
GR   1339.2   10055.    1337.7    10060.     1338.8   10100.

NC    0.035    0.035     0.035       0.1       0.3
ET                          4.1     9957.     10043.
X1   19.847      22.      9929.    10062.      570.      520.       554.
GR   1339.8    9621.    1338.7     9726.     1341.6    9738.     1338.8     9759.      1339.      9806.
GR   1337.7    9915.    1336.1     9921.     1336.3    9929.     1320.2     9974.     1318.8      9989.
GR   1320.8   10000.    1320.5    10017.     1321.3   10023.     1328.8    10040.     1335.8     10062.
GR   1336.1   10070.    1336.6    10084.     1335.8   10150.      1336.    10160.     1338.3     10175.
GR   1339.2   10195.    1339.2    10198.

ET                          4.1     9958.     10031.
X1   19.960      24.      9958.    10031.      640.      560.       597.
GR   1340.4    9544.    1339.1     9638.     1336.7    9736.     1337.2     9768.     1338.2      9807.
GR   1338.9    9836.    1338.4     9908.     1340.1    9911.     1337.7     9917.     1339.1      9924.
GR   1337.2    9935.     1330.     9958.     1327.8    9964.     1326.1     9977.     1324.6      9990.
GR   1324.7   10000.    1326.1    10008.     1326.8   10023.      1330.    10031.     1340.6     10059.
GR   1340.8   10072.    1340.7    10099.     1340.1   10194.     1339.9    10251.

       TIERRA BUENA  (SPECIAL BRIDGE)


       DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED
       FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD
       AND UNION HILLS DRIVE


NC     0.04     0.04     0.035       0.3       0.5
ET                          4.1     9969.     10020.
X1   19.974      10.      9969.    10020.      105.       65.        74.
X3     10.                                                                   1336.      1336.
GR   1340.1    9911.    1337.7     9917.     1339.1    9924.     1337.2     9935.      1330.      9958.
GR   1323.8    9969.    1323.8    10020.      1330.   10031.     1340.6    10059.     1340.8     10072.

SB    1.25     1.56       3.                   51.       3.        480.        0.     1324.1     1323.8
ET                         4.11     9969.     10020.
X1   19.986                                     61.       61.        61.

       ELTRD IS 1336.9+1HV = 1337.9

X2                          1.     1334.1     1337.9
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X3      10.                                                          1337.     1337.
BT       3.     9560.     1340.       0.    10000.    1336.9        0.    10230.     1340.        0.

ET                         4.1     9975.    10025.
X1   20.049       37.     9954.    10027.      305.      345.      333.
X3      10.                                                          1340.
GR   1344.7     9266.    1345.2     9300.    1342.4     9304.    1340.8     9328.    1332.6     9344.
GR   1333.1     9400.    1333.3     9490.     1334.     9563.    1334.8     9606.    1333.2     9728.
GR    1335.     9767.    1331.4     9805.     1331.     9820.    1331.5     9854.    1331.5     9901.
GR   1332.1     9920.    1341.1     9938.    1340.5     9950.    1343.4     9954.    1339.8     9969.
GR   1327.4     9991.    1327.1     9997.    1327.1    10000.    1328.4    10008.    1339.4    10027.
GR    1340.    10047.    1342.3    10075.    1342.4    10097.    1340.2    10114.    1342.3    10131.
GR    1343.    10142.    1341.5    10162.    1342.7    10175.    1342.9    10210.    1343.3    10307.
GR   1342.5    10378.     1343.    10477.

NC                                    0.1       0.3
ET                         4.1     9972.    10029.
X1   20.144       38.     9955.    10025.      490.      500.      502.
X3      10.                                                          1344.
GR   1346.6     9136.    1347.4     9206.    1348.2     9208.    1348.4     9215.    1347.1     9235.
GR   1342.5     9239.    1341.7     9258.    1334.6     9278.     1332.     9297.    1332.6     9357.
GR   1333.7     9417.    1333.1     9457.    1334.1     9479.    1334.9     9499.    1335.3     9554.
GR   1334.4     9582.    1335.7     9631.    1335.6     9698.    1336.1     9745.    1334.6     9779.
GR   1329.6     9788.    1330.5     9820.    1329.4     9847.    1328.5     9881.    1328.5     9912.
GR   1341.6     9931.    1343.1     9951.    1344.6     9955.     1342.     9968.    1330.9     9986.
GR   1330.9    10000.    1330.9    10010.    1340.8    10025.    1342.2    10040.    1345.9    10053.
GR   1346.5    10073.     1347.    10128.     1347.    10198.

ET                         4.1     9964.    10035.
X1   20.242       32.     9953.    10029.      470.      560.      517.
X3      10.                                                          1348.
GR   1346.6     9200.    1347.9     9269.    1348.7     9271.    1348.7     9277.    1346.6     9330.
GR   1342.7     9377.    1342.3     9383.    1342.7     9400.    1332.4     9422.    1333.6     9470.
GR   1333.7     9529.    1334.9     9573.    1334.2     9626.    1334.9     9648.    1335.1     9651.
GR    1336.     9785.     1336.     9842.    1338.6     9846.    1339.3     9895.    1339.2     9935.
GR   1347.2     9953.    1343.7     9970.    1333.3     9988.    1333.7    10000.    1333.5    10012.
GR   1342.8    10029.    1343.2    10041.    1348.3    10061.    1349.2    10076.    1349.9    10107.
GR   1350.1    10201.    1350.3    10202.

ET                         4.1     9963.    10036.
X1   20.335       27.     9958.    10032.      510.      470.      491.
GR   1349.5     9230.    1351.4     9312.    1349.1     9322.    1350.7     9340.     1351.     9476.
GR   1351.2     9592.    1350.4     9726.    1350.1     9808.    1351.1     9820.    1351.4     9850.
GR   1351.8     9928.    1347.7     9950.     1344.     9958.    1337.7     9971.    1337.3     9987.
GR   1337.4    10000.    1338.3    10021.     1344.    10032.     1349.    10042.    1351.8    10056.
GR   1351.1    10100.    1351.6    10141.     1350.    10144.     1350.    10166.     1350.    10240.
GR   1350.8    10328.    1351.4    10406.
```

11TH AVENUE (SPECIAL BRIDGE)

```
NC                                  0.3       0.5
X1   20.347      25.     9970.    10021.       1.      150.      63.
X3     10.                                                     1351.5    1351.5
GR   1349.5    9230.    1351.4    9312.    1349.1    9322.    1350.7    9340.     1351.     9476.
GR   1351.2    9592.    1350.4    9726.    1350.1    9808.    1351.1    9820.    1351.4     9850.
GR   1351.8    9928.    1347.7    9950.     1344.    9958.    1337.2    9970.    1337.2    10021.
GR    1344.   10032.     1349.   10042.    1351.8   10056.    1351.1   10100.    1351.6    10141.
GR    1350.   10144.     1350.   10166.     1350.   10240.    1350.8   10328.    1351.4    10406.

SB    1.25      1.56       3.0      100.       51.       3.      576.       0.    1337.7    1337.2
X1   20.366                                 100.      100.      100.

       ELTRD IS 1352.5+2HV = 1354.5

X2                          1.    1349.7    1354.5
X3     10.                                                     1352.5    1352.5

ET                          4.1    9958.   10072.
X1   20.423      21.     9975.   10045.     415.      205.      301.
GR   1354.3    9418.    1353.8    9613.    1355.3    9653.    1354.6    9696.    1353.3     9711.
GR   1353.6    9724.    1353.5    9931.     1352.    9950.     1345.    9975.     1338.    10000.
GR   1339.4   10027.    1339.7   10037.    1344.3   10045.     1345.   10055.    1353.3    10085.
GR   1353.5   10100.    1354.7   10127.    1354.4   10214.    1354.3   10273.    1353.3    10300.
GR   1353.5   10333.

       10TH AVENUE  (SPECIAL BRIDGE)

X1   20.430      20.     9985.   10036.       1.       65.       37.
X3     10.                                                     1352.5    1352.5
GR   1354.3    9418.    1353.8    9613.    1355.3    9653.    1354.6    9696.    1353.3     9711.
GR   1353.6    9724.    1353.5    9931.     1352.    9950.     1345.    9975.    1339.3     9985.
GR   1339.3   10036.    1344.3   10045.     1345.   10055.    1353.3   10085.    1353.5    10100.
GR   1354.7   10127.    1354.4   10214.    1354.3   10273.    1353.3   10300.    1353.5    10333.

SB    1.25      1.56       3.0      100.       51.       3.      576.       0.    1339.3    1339.3
X1   20.444                                  70.       70.       70.

       ELTRD IS 1353.5+2HV = 1355.5

X2                          1.    1351.3    1355.5
X3     10.                                                     1353.5    1353.5

ET                          4.1    9930.   10069.
X1   20.529      19.     9947.   10055.     545.      375.      449.
GR    1354.    9570.    1353.7    9764.    1354.8    9836.     1355.    9885.    1354.7     9898.
GR   1350.7    9910.    1350.2    9947.    1343.4    9963.    1343.4    9990.    1343.3    10000.
GR    1343.   10025.    1348.6   10041.    1350.4   10055.    1350.8   10090.     1355.    10105.
GR   1354.4   10159.     1355.   10192.     1355.   10302.    1355.2   10313.
```

```
NC                                  0.1       0.3
ET                        4.1     9935.    10065.
X1   20.628       16.     9909.   10076.      530.      520.      523.
GR   1357.3     9532.   1357.3    9624.   1356.8     9754.   1357.2     9808.   1357.1     9909.
GR   1351.5     9922.   1350.2    9947.   1343.3     9959.   1343.6     9991.   1343.6    10000.
GR   1343.7    10044.   1356.3   10076.     1357.    10082.   1357.1    10137.   1357.2    10282.
GR    1358.    10337.

ET                        4.1     9962.    10026.
X1   20.725       20.     9951.   10036.      510.      520.      512.
GR   1360.3     9544.   1361.1    9631.   1361.3     9734.    1361.     9783.    1362.     9858.
GR   1360.8     9940.   1360.4    9951.   1350.4     9970.   1350.4     9981.   1348.3     9984.
GR   1347.4     9992.   1347.2   10000.   1347.4    10010.    1361.    10036.   1363.4    10046.
GR   1363.8    10101.   1364.1   10156.   1364.7    10184.   1365.1    10212.   1364.7    10291.
```

PHELPS ROAD (SPECIAL BRIDGE)

```
NC                                  0.3       0.5
X1   20.737       16.     9968.   10019.       80.       80.       80.                 3.4
X3      10.                                                                   1363.    1363.
GR   1360.3     9544.   1361.1    9631.   1361.3     9734.    1361.     9783.    1362.     9858.
GR   1360.8     9940.   1360.4    9951.   1347.5     9968.   1347.5    10019.    1361.    10036.
GR   1363.4    10046.   1363.8   10101.   1364.1    10156.   1364.7    10184.   1365.1    10212.
GR   1364.7    10291.

SB    1.25      1.56      3.0     100.      51.        3.      576.        0.   1351.0    1350.9
X1   20.750                                 71.       71.       71.                 0.1
```

ELTRD IS 1364+2HV = 1366.0

```
X2                        1.     1363.    1366.
X3      10.                                                                   1364.    1364.
```

BELL ROAD (SPECIAL BRIDGE) A SECTION TAKEN UPSTREAM OF BELL ROAD AT RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE. GR CARDS ARE REPEATED AT THE DOWNSTREAM FACE WITH PSXECE = -0.9. TO MORE APPROPRIATELY MODEL CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860 INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.

```
X1   20.819       12.     9965.   10043.      375.      345.      365.                -0.9
X3      10.                                                                   1366.9   1366.9
GR   1366.5     9554.   1365.4    9663.   1365.5     9777.   1365.5     9846.   1365.3     9942.
GR   1357.4     9965.   1357.4   10043.   1367.6    10066.   1366.2    10107.   1366.2    10146.
GR    1367.    10166.   1367.2   10169.

SB    1.05      1.56      3.0     100.      77.3       3.3      655.        0.   1357.4    1356.5
X1   20.841                                115.      115.      115.                 0.9
```

ELTRD IS 1367.9+2HV = 1369.9

```
X2                        1.     1365.4   1369.9
```

X3	10.							1367.9	1367.9	
ET			4.1	9904.	10060.					
X1	20.860	14.	9942.	10066.	90.	110.	100.			
X3	10.							1365.3	1367.6	
GR	1370.	9800.	1365.5	9801.	1365.5	9846.	1365.3	9942.	1357.8	9975.
GR	1356.3	9991.	1356.4	10000.	1357.2	10015.	1357.	10040.	1367.6	10066.
GR	1366.2	10107.	1366.2	10146.	1367.	10166.	1367.2	10169.		
NC	0.04	0.035	0.035	0.1	0.3					
ET			4.1	9860.	10110.					
X1	20.942	26.	9854.	10024.	530.	490.	433.			
GR	1372.5	9619.	1367.2	9630.	1368.7	9643.	1369.8	9663.	1369.4	9719.
GR	1367.6	9792.	1367.6	9836.	1368.6	9854.	1360.2	9867.	1359.8	9879.
GR	1359.8	9891.	1364.6	9904.	1365.2	9942.	1363.7	9970.	1366.	9977.
GR	1360.3	9998.	1359.6	10000.	1366.5	10024.	1364.7	10027.	1364.5	10053.
GR	1365.7	10070.	1364.5	10114.	1361.6	10153.	1368.3	10171.	1368.3	10194.
GR	1368.3	10204.								
NC	0.04	0.04	0.035							
ET			4.1	9810.	10060.					
X1	21.036	19.	9912.	10020.	490.	490.	496.			
GR	1376.1	9530.	1372.	9541.	1372.	9561.	1371.3	9665.	1371.9	9728.
GR	1371.6	9758.	1370.9	9867.	1370.7	9912.	1367.3	9917.	1367.5	9952.
GR	1366.3	9980.	1363.5	9994.	1363.6	10000.	1364.3	10009.	1370.4	10020.
GR	1371.2	10041.	1371.2	10075.	1371.8	10089.	1378.	10090.		
ET			4.1	9900.	10060.					
X1	21.127	13.	9974.	10067.	400.	500.	480.			
X3	10.							1374.		
GR	1378.9	9623.	1373.6	9634.	1373.6	9666.	1373.4	9759.	1373.5	9860.
GR	1373.7	9913.	1374.2	9974.	1366.9	9990.	1366.7	10000.	1367.5	10015.
GR	1367.8	10039.	1375.	10067.	1375.	10077.				
ET			4.1	9900.	10125.					
X1	21.230	28.	9967.	10048.	560.	500.	544.			
GR	1381.5	9741.	1381.5	9764.	1381.5	9786.	1380.7	9813.	1379.3	9835.
GR	1379.3	9852.	1379.9	9862.	1378.2	9870.	1379.8	9879.	1378.9	9891.
GR	1379.5	9916.	1379.6	9930.	1378.9	9944.	1379.2	9955.	1379.3	9967.
GR	1374.7	9982.	1372.4	9992.	1372.	10000.	1373.2	10014.	1375.6	10023.
GR	1379.3	10037.	1380.6	10048.	1378.	10062.	1377.5	10083.	1377.4	10102.
GR	1377.7	10117.	1377.8	10126.	1385.	10127.				
ET			4.1	9930.	10130.					
X1	21.363	55.	9928.	10088.	740.	700.	702.			
GR	1384.8	9135.	1384.7	9160.	1383.9	9189.	1384.6	9215.	1383.9	9245.
GR	1384.4	9279.	1383.8	9313.	1384.	9345.	1384.1	9374.	1383.8	9405.
GR	1383.5	9428.	1384.5	9459.	1385.	9498.	1384.7	9527.	1385.	9549.
GR	1382.2	9561.	1381.	9570.	1382.1	9583.	1383.9	9596.	1384.3	9628.
GR	1384.3	9657.	1384.	9697.	1383.6	9739.	1384.1	9779.	1383.9	9811.
GR	1383.1	9822.	1383.6	9848.	1383.3	9886.	1383.5	9907.	1384.1	9916.
GR	1383.2	9922.	1384.4	9928.	1383.6	9939.	1379.2	9954.	1377.7	9977.
GR	1375.	9996.	1374.8	10000.	1375.	10016.	1374.2	10037.	1374.1	10045.
GR	1377.5	10066.	1382.1	10088.	1383.8	10108.	1384.	10125.	1384.5	10147.

GR	1382.7	10174.	1383.2	10202.	1383.1	10224.	1383.1	10245.	1383.3	10265.
GR	1384.3	10285.	1383.4	10301.	1383.	10319.	1383.	10334.	1383.	10337.
ET			4.1	9852.	10077.					
X1	21.484	33.	9932.	10026.	650.	520.	639.			
GR	1386.8	9487.	1385.8	9527.	1385.8	9572.	1385.4	9614.	1384.8	9647.
GR	1385.2	9678.	1385.6	9709.	1386.7	9746.	1385.9	9776.	1384.5	9805.
GR	1383.9	9837.	1384.4	9867.	1384.	9892.	1386.5	9919.	1386.9	9932.
GR	1386.2	9943.	1383.5	9964.	1380.2	9970.	1379.7	9988.	1378.5	9994.
GR	1378.6	10000.	1381.2	10014.	1386.5	10026.	1386.6	10053.	1387.8	10056.
GR	1385.5	10060.	1388.2	10068.	1385.8	10075.	1387.4	10079.	1387.4	10101.
GR	1387.6	10116.	1387.5	10131.	1387.4	10134.				
ET			4.1	9940.	10165.					
X1	21.576	43.	9980.	10087.	320.	480.	486.			
GR	1389.7	9388.	1388.6	9414.	1388.2	9461.	1388.5	9500.	1389.3	9532.
GR	1388.7	9570.	1388.5	9607.	1387.9	9643.	1388.6	9664.	1388.8	9705.
GR	1389.1	9743.	1388.9	9780.	1388.	9821.	1388.4	9852.	1388.7	9889.
GR	1389.1	9922.	1389.7	9952.	1390.1	9968.	1390.	9980.	1382.5	9994.
GR	1382.1	10000.	1382.2	10008.	1383.8	10015.	1385.1	10038.	1385.2	10056.
GR	1384.1	10065.	1384.6	10073.	1388.3	10087.	1387.1	10114.	1387.1	10140.
GR	1387.8	10162.	1387.7	10199.	1388.4	10243.	1388.7	10281.	1389.3	10300.
GR	1390.3	10307.	1389.2	10313.	1390.7	10320.	1387.6	10329.	1388.9	10335.
GR	1389.7	10348.	1390.2	10360.	1390.3	10386.				
QT	2.	5500.	5500.							
ET			4.1	9890.	10115.					
X1	21.669	35.	9962.	10031.	440.	470.	491.			
GR	1393.2	9392.	1393.	9426.	1392.7	9446.	1392.3	9515.	1392.9	9562.
GR	1392.2	9606.	1392.8	9663.	1392.7	9710.	1393.1	9742.	1393.5	9777.
GR	1393.3	9819.	1392.7	9858.	1392.2	9893.	1391.6	9925.	1392.	9949.
GR	1393.8	9962.	1392.7	9974.	1392.2	9982.	1385.	9989.	1384.	9997.
GR	1384.5	10000.	1385.1	10011.	1388.7	10023.	1392.	10031.	1391.2	10045.
GR	1392.	10074.	1391.7	10124.	1391.9	10182.	1392.	10245.	1392.1	10303.
GR	1391.9	10361.	1392.	10395.	1392.6	10401.	1391.6	10404.	1393.3	10414.
ET			4.1	9940.	10140.					
X1	21.742	25.	9975.	10091.	430.	390.	385.			
GR	1396.	9733.	1394.6	9753.	1395.1	9777.	1395.	9802.	1395.	9839.
GR	1395.6	9885.	1395.1	9930.	1395.3	9940.	1394.7	9975.	1387.4	9991.
GR	1386.4	10000.	1386.9	10015.	1392.2	10035.	1391.9	10052.	1389.9	10062.
GR	1391.5	10080.	1394.2	10091.	1394.2	10126.	1394.9	10176.	1395.	10240.
GR	1394.6	10281.	1394.8	10324.	1395.2	10355.	1395.3	10367.	1397.3	10376.
ET			4.1	9900.	10100.					
X1	21.840	22.	9946.	10054.	430.	430.	517.			
GR	1401.5	9827.	1402.1	9842.	1397.3	9860.	1395.5	9882.	1395.	9913.
GR	1395.3	9931.	1396.2	9946.	1395.7	9953.	1392.1	9967.	1392.6	9984.
GR	1393.7	9997.	1393.3	10000.	1392.5	10020.	1391.1	10033.	1393.5	10045.
GR	1397.	10054.	1396.5	10097.	1397.3	10145.	1397.8	10186.	1397.5	10227.
GR	1397.6	10273.	1398.3	10308.						

```
ET                          4.1     9830.    10080.
X1   21.895       31.     9975.    10031.      330.      220.      290.
GR   1402.6     9807.    1402.6     9825.    1398.4     9839.    1397.2     9857.    1396.7     9885.
GR   1396.7     9919.    1397.7     9939.    1397.9     9960.     1398.     9975.    1397.1     9981.
GR    1393.     9990.    1391.9    10000.    1392.3    10010.     1394.    10021.    1397.7    10031.
GR   1398.6    10046.     1399.    10078.    1398.4    10113.    1398.6    10149.    1398.7    10187.
GR   1398.5    10225.    1398.1    10251.    1398.6    10292.    1398.6    10333.    1399.3    10364.
GR   1398.8    10399.    1399.5    10428.    1400.5    10446.    1400.5    10458.    1399.7    10463.
GR   1400.9    10470.
```

UNION HILLS RD: PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA (BAREA) WITH AN ORIFICE COEFFICIENT. THE 100 YEAR FLOW THROUGH THE PIPES WAS NEGLIGIBLE (18 CFS). UNION HILLS IS THEREFORE MORE APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.

```
ET                          4.1     9650.    10070.
X1   21.933       12.     9865.    10140.      210.      210.      210.
GR    1402.     9060.    1400.3     9440.     1400.     9590.    1398.     9680.    1397.4     9725.
GR    1398.     9780.    1399.4     9840.     1398.     9865.    1396.8    10000.     1398.    10140.
GR    1400.    10285.     1406.    10286.

NC    0.045     0.045     0.045
ET                          4.1     9630.    10051.
X1   21.953       39.     9969.    10029.       75.       75.       74.
GR    1402.     9320.    1400.5     9487.    1400.8     9527.    1401.4     9557.    1400.2     9580.
GR   1401.7     9599.    1401.1     9621.    1400.2     9647.    1399.6     9678.    1398.8     9699.
GR   1398.3     9714.    1397.6     9720.    1396.6     9725.    1398.8     9735.    1399.3     9745.
GR   1398.8     9759.    1397.3     9768.    1398.9     9782.    1398.9     9810.    1400.1     9832.
GR   1402.1     9851.    1401.7     9870.    1403.3     9884.    1403.7     9893.    1403.4     9912.
GR   1402.3     9939.     1401.     9956.    1399.7     9965.    1400.2     9969.    1395.6     9986.
GR   1394.4     9997.    1394.1    10000.     1394.    10010.    1394.9    10018.    1398.3    10029.
GR   1400.1    10044.    1401.6    10058.    1401.4    10064.     1407.    10065.

ET                          4.1     9620.    10030.
X1   22.065       39.     9961.    10028.      430.      630.      591.
GR   1404.2     9230.     1404.     9250.     1402.     9270.     1402.     9500.    1403.1     9594.
GR   1403.6     9604.    1400.4     9627.    1400.1     9645.    1400.6     9657.    1400.3     9680.
GR   1400.5     9700.    1401.9     9717.    1403.3     9731.    1403.7     9746.    1403.9     9761.
GR   1400.1     9776.     1400.     9785.    1401.1     9796.     1401.     9816.    1403.7     9829.
GR   1403.7     9843.    1400.7     9861.    1399.7     9869.    1402.7     9890.    1403.5     9899.
GR   1404.1     9915.    1404.8     9934.    1403.6     9950.    1404.1     9961.    1401.4     9977.
GR    1398.     9989.    1395.8     9995.    1395.8    10000.    1395.9    10006.    1399.4    10010.
GR    1402.    10028.    1402.6    10043.    1406.6    10061.    1407.1    10085.

ET                          4.1     9620.    10020.
X1   22.165       63.     9983.    10018.      530.      530.      528.
GR    1406.     9130.    1405.2     9138.     1405.     9151.    1404.4     9164.    1402.8     9176.
GR   1402.7     9184.    1400.8     9204.    1399.8     9213.    1399.3     9222.    1401.2     9232.
GR    1403.     9256.    1403.8     9282.    1403.8     9308.    1404.3     9334.    1404.2     9364.
GR   1404.1     9396.     1404.     9425.    1404.9     9463.    1405.2     9499.    1405.3     9526.
GR   1404.9     9548.    1403.8     9565.    1402.8     9579.    1404.6     9595.    1404.8     9608.
GR   1402.4     9624.     1400.     9637.    1399.7     9645.    1400.6     9657.     1402.     9669.
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GR	1403.1	9686.	1404.5	9701.	1405.8	9714.	1406.2	9728.	1406.1	9741.
GR	1404.	9753.	1403.8	9760.	1405.2	9772.	1405.6	9784.	1405.3	9793.
GR	1402.9	9806.	1402.7	9820.	1402.6	9834.	1402.6	9843.	1401.8	9849.
GR	1401.9	9862.	1402.8	9872.	1403.8	9876.	1405.	9894.	1406.1	9909.
GR	1405.4	9919.	1403.1	9930.	1403.	9946.	1402.1	9967.	1400.9	9983.
GR	1395.3	9994.	1395.	10000.	1396.1	10007.	1403.7	10018.	1404.8	10038.
GR	1405.2	10053.	1405.2	10060.	1405.7	10065.				
ET			4.1	9650.	10027.					
X1	22.273	57.	9933.	10028.	470.	580.	570.			
GR	1418.7	9227.	1418.7	9238.	1412.4	9262.	1411.6	9274.	1410.9	9284.
GR	1409.	9292.	1407.6	9300.	1407.3	9314.	1406.3	9325.	1403.5	9335.
GR	1403.1	9344.	1403.	9350.	1404.3	9359.	1405.4	9369.	1405.8	9386.
GR	1406.7	9408.	1407.1	9427.	1407.4	9444.	1407.2	9460.	1406.4	9473.
GR	1406.5	9485.	1406.9	9502.	1407.7	9520.	1408.2	9532.	1407.1	9558.
GR	1404.4	9574.	1404.3	9598.	1406.	9622.	1407.	9657.	1407.3	9686.
GR	1406.2	9708.	1406.4	9727.	1406.4	9745.	1405.6	9754.	1402.6	9766.
GR	1402.8	9774.	1406.7	9789.	1409.4	9801.	1408.5	9827.	1407.9	9851.
GR	1408.8	9869.	1406.3	9887.	1407.	9902.	1404.	9915.	1404.1	9933.
GR	1403.2	9948.	1401.8	9961.	1400.6	9977.	1400.1	9992.	1399.4	9999.
GR	1399.8	10000.	1401.2	10011.	1404.	10021.	1406.9	10028.	1408.	10050.
GR	1408.3	10080.	1408.7	10109.						
ET			4.1	9860.	10040.					
X1	22.410	25.	9973.	10027.	750.	630.	723.			
GR	1420.	9802.	1419.1	9817.	1418.8	9825.	1415.8	9838.	1414.8	9850.
GR	1412.6	9867.	1413.9	9879.	1412.	9890.	1413.4	9903.	1414.5	9914.
GR	1416.1	9922.	1414.	9931.	1412.4	9941.	1411.4	9954.	1411.2	9967.
GR	1410.7	9973.	1405.7	9987.	1404.9	9997.	1404.	10000.	1404.7	10007.
GR	1407.6	10017.	1411.3	10027.	1413.5	10042.	1413.8	10057.	1414.4	10071.
ET			4.1	9890.	10050.					
X1	22.483	19.	9941.	10105.	380.	390.	385.			
GR	1421.	9823.	1420.2	9843.	1416.7	9873.	1414.4	9891.	1413.1	9915.
GR	1411.1	9941.	1407.8	9961.	1406.2	9984.	1405.5	10000.	1405.5	10027.
GR	1406.4	10056.	1408.3	10084.	1411.2	10105.	1412.3	10120.	1412.6	10138.
GR	1412.6	10156.	1411.9	10175.	1412.7	10191.	1419.8	10208.		
ET			4.1	9968.	10064.					
X1	22.578	13.	9968.	10072.	540.	490.	502.			
GR	1417.2	9914.	1417.6	9942.	1416.4	9958.	1416.6	9968.	1406.7	9983.
GR	1406.7	9993.	1407.5	10000.	1408.5	10024.	1408.5	10040.	1408.8	10050.
GR	1415.6	10063.	1421.2	10072.	1421.4	10090.				
ET			4.1	9830.	10028.					
X1	22.675	19.	9736.	10032.	570.	480.	512.			
GR	1419.9	9671.	1419.9	9710.	1419.8	9736.	1410.6	9759.	1411.1	9783.
GR	1410.6	9809.	1409.7	9828.	1410.8	9850.	1411.5	9873.	1413.4	9892.
GR	1412.2	9922.	1411.	9950.	1411.	9976.	1410.7	10000.	1410.6	10015.
GR	1420.	10032.	1428.3	10047.	1426.6	10055.	1426.	10060.		

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ET                          4.1     9977.    10160.
X1   22.794       20.     9983.    10169.      460.      500.      628.
GR   1420.6     9968.    1417.8     9983.    1413.6     9998.    1412.4    10000.    1412.3    10013.
GR   1410.7    10041.    1411.6    10065.    1413.7    10080.    1413.8    10103.    1414.2    10119.
GR   1411.7    10136.    1413.8    10151.    1416.1    10169.    1417.2    10189.    1420.3    10202.
GR   1423.1    10219.    1427.     10244.    1429.9    10261.    1429.8    10278.    1429.8    10282.

ET                          4.1     9951.    10120.
X1   22.880       34.     9927.    10167.      440.      480.      454.
GR   1427.3     9791.    1427.     9807.    1426.5     9815.    1424.8     9827.    1424.6     9838.
GR   1424.8     9863.    1424.8    9883.    1424.5     9903.    1424.7     9917.    1426.4     9927.
GR   1423.9     9934.    1421.4    9947.    1418.5     9958.    1416.1     9968.    1415.      9984.
GR   1414.      9999.    1414.3    10000.   1414.5     10012.   1415.2     10024.   1416.1     10048.
GR   1416.5    10067.    1416.4    10101.   1416.2     10125.   1415.5     10143.   1413.2     10152.
GR   1413.     10156.    1414.8    10160.   1424.2     10167.   1426.6     10188.   1428.4     10200.
GR   1430.9    10214.    1433.5    10230.   1433.8     10241.   1433.5     10248.

ET                          4.1     9890.    10026.
X1   22.990       35.     9739.    10034.      480.      530.      581.
GR   1427.7     9668.    1427.6     9697.    1425.6     9719.    1425.3     9730.    1425.4     9739.
GR   1423.9     9751.    1422.5     9767.    1422.4     9785.    1421.5     9804.    1421.3     9817.
GR   1421.3     9829.    1420.8     9843.    1419.5     9855.    1418.9     9864.    1417.9     9873.
GR   1419.4     9886.    1420.      9903.    1420.6     9921.    1420.8     9935.    1420.3     9949.
GR   1420.      9963.    1419.1     9977.    1419.1     9995.    1419.1     10000.   1418.7     10014.
GR   1420.3    10020.    1427.9     10034.   1427.3     10044.   1428.3     10060.   1430.5     10076.
GR   1435.7    10094.    1437.4     10108.   1438.7     10119.   1436.3     10126.   1435.1     10133.

ET                          4.1     9958.    10090.
X1   23.097       48.     9951.    10121.      640.      490.      565.
GR   1433.9     9713.    1433.9     9740.    1433.8     9758.    1432.3     9772.    1432.1     9778.
GR   1433.5     9794.    1433.5     9811.    1433.5     9835.    1433.4     9849.    1431.1     9864.
GR   1430.      9878.    1430.1     9885.    1431.      9892.    1429.6     9901.    1429.1     9916.
GR   1429.6     9925.    1431.3     9935.    1432.2     9945.    1432.3     9951.    1427.9     9964.
GR   1426.4     9977.    1425.6     9988.    1425.1     9999.    1425.1     10000.   1426.      10012.
GR   1426.1    10021.    1426.5     10044.   1426.5     10063.   1426.5     10073.   1426.5     10082.
GR   1425.5    10093.    1426.4     10101.   1428.5     10112.   1430.8     10121.   1430.1     10135.
GR   1430.     10150.    1431.6     10163.   1432.8     10176.   1433.      10198.   1432.7     10221.
GR   1431.6    10247.    1430.9     10267.   1430.6     10286.   1431.5     10296.   1433.4     10310.
GR   1438.3    10337.    1439.7     10353.   1440.5     10363.
```

THE BEARDSLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL CROSS SECTION. THE BEARDSLEY ROAD CENTERLINE IS AT RM 23.168

```
                    4.1   9830.   10140.

X1   23.168       22.     9777.    10116.      330.      300.      375.
GR   1435.4     9358.    1435.5     9412.    1435.6     9477.    1434.7     9533.    1433.2     9598.
GR   1431.8     9657.    1430.8     9718.    1429.5     9777.    1428.9     9827.    1429.      9877.
GR   1429.1     9942.    1429.      9999.    1429.1     10000.   1429.8     10053.   1430.3     10116.
GR   1431.8    10176.    1433.6     10230.   1434.3     10274.   1434.9     10326.   1435.5     10363.
GR   1435.6    10399.    1435.8     10409.
```

DUE TO BREAKOUTS (SPLIT FLOWS) BETWEEN RM 23.55 AND RM 23.8, THE

50 AND 100 YEAR Q'S ARE REDUCED PER THE FOLLOWING TABLE.

NO ENCROACHMENTS ARE COMPUTED FOR THE FOLLOWING REACH BETWEEN RM 23.253 AND 7TH STREET. FOR PURPOSES OF A FLOODWAY, A 100 FT CORRIDOR IS MAINTAINED OUTSIDE OF THE LEVEES (WHICH ARE LIKELY TO BE ERODABLE) TO PASS THE SPLIT FLOWS WHICH HAVE BEEN REMOVED FROM THE MODEL, AS DISCUSSED WITH CITY OF PHOENIX AND FLOOD CONTROL DISTRICT REPRESENTATIVES. IF THIS CORRIDOR IS NOT MAINTAINED, THE REDUCTION IN Q FOR THIS MODEL IS NOT VALID, RESULTING IN A FLOODWAY PROFILE ABOVE THE NATURAL PROFILE BY MORE THAN THE STATUTORY 1.0 FT.

	FULL Q	REDUCED Q
50 YEAR	4800.	3300
100 YEAR	5500.	3400

THE 10 YEAR Q (3200 CFS) IS UNAFFECTED

```
QT      2.     3400.     3400.
NC   0.035      0.05      0.04
                  4.1  9978.5 10023.2
X1  23.253        8.     9973.    10038.      470.      450.      459.
GR  1437.5     9973.    1425.5     9995.    1425.2    10000.    1427.4    10008.    1429.2    10015.
GR  1444.2    10038.    1444.9    10052.     1445.    10060.
                  4.1   9969.  10036.

X1  23.334       10.     9962.    10055.      400.      420.      417.
GR  1443.8     9962.    1435.6     9979.    1433.2     9990.    1432.6    10000.    1433.2    10012.
GR  1435.4    10022.    1438.5    10032.    1444.2    10044.    1449.8    10055.    1449.6    10063.

X1  23.416       10.     9974.    10053.      400.      430.      433.
GR  1447.7     9958.    1447.8     9974.    1439.2     9989.    1436.5     9999.    1436.6    10000.
GR  1437.2    10017.    1437.6    10030.    1444.4    10041.    1450.2    10053.    1450.4    10066.

X1  23.514        8.     9973.    10039.      560.      470.      517.
GR  1451.5     9965.    1451.4     9973.    1439.8     9989.    1439.6    10000.    1440.1    10012.
GR  1441.5    10022.    1443.6    10029.    1451.1    10039.
```

SPECIAL BRIDGE IS USED TO MODEL EMBANKMENT PLACED IN THE CHANNEL TO ALLOW VEHICULAR ACCESS BETWEEN THE LANDFILL ON THE LEFT AND THE GRAVEL PIT ON THE RIGHT. THE EMBANKMENT MAY WASH OUT, BUT FOR THIS STUDY, IT IS ASSUMED TO REMAIN. LOW FLOWS PASS THROUGH 2-36" CMP'S.

```
X1  23.544                                  190.      150.      158.                1.8
X3     10.                                                            1445.     1445.
```

```
SB     1.25      2.48       3.2        0.        5.7         1.       14.1         0.      1442.     1441.4
X1   23.555                                       60.        60.        60.                   0.6

        ELTRD IS 1448.4+0.6HV = 1449

X2                            1.     1445.      1449.
X3      10.                                                                   1480.      1480.
BT      10.     9930.      1452.        0.      9939.     1451.2         0.    9951.     1451.1         0.
BT    9967.    1449.8         0.     9987.     1448.4         0.     10000.   1448.4         0.     10019.
BT   1448.6        0.     10041.    1449.5         0.     10055.      1450.       0.     10070.      1452.
BT       0.

X1   23.591       17.      9968.    10045.       100.       210.       190.

        ARTIFICIAL LEVEES ARE SET VERY HIGH ON THE LEFT AND RIGHT OVERBANKS
        USING THE X3 CARD TO CONSIDER ONLY THE CHANNEL AREA AS EFFECTIVE.  SPLIT
        FLOW THAT BREAKS OUT UPSTREAM IS ACCOUNTED FOR BY THE REDUCED Q.  FLOWS
        ARE RETURNED TO CAVE CREEK DOWNSTREAM AT BEARDSLEY ROAD.

X3      10.                                                                   1480.      1480.
GR    1460.     9700.      1448.     9760.      1448.     9850.      1452.9   9959.     1452.9      9968.
GR   1446.8     9982.     1444.6     9993.     1444.2    10000.     1444.2   10013.    1444.9     10023.
GR   1449.9    10036.     1453.8    10045.     1451.9    10048.      1448.   10070.      1448.     10430.
GR    1450.    10770.      1452.    11200.

X1   23.691       43.      9965.    10036.       510.       540.       528.

        HIGH ARTIFICIAL LEVEE

X3      10.                                                                   1480.      1480.
GR   1461.1     9722.     1449.4     9747.     1449.4     9767.      1449.5   9784.     1449.1      9800.
GR   1448.3     9819.     1448.6     9832.     1448.3     9866.       1449.   9894.     1449.3      9913.
GR   1450.2     9925.     1453.5     9936.     1456.1     9944.      1455.4   9951.     1457.3      9955.
GR   1457.6     9965.     1450.8     9980.     1448.5     9985.      1447.2   9991.     1446.6      9999.
GR   1446.4    10000.      1447.    10011.     1449.6    10017.      1451.3  10028.     1455.3     10036.
GR   1453.2    10045.     1452.4    10054.     1451.3    10057.      1452.2  10062.     1452.4     10077.
GR   1452.2    10094.     1451.7    10108.     1452.6    10117.      1451.4  10123.     1452.7     10128.
GR    1451.    10138.     1452.3    10143.     1451.7    10147.      1453.4  10155.     1452.1     10160.
GR    1452.    10320.      1454.    10560.      1456.    10730.

        I IS NOW CHANGED TO BE THE AVERAGE OF THE FULL Q UPSTREAM OF THE
        BREAKOUT AND OF THE REDUCED Q DOWNSTREAM OF THE BREAKOUT.

QT       2.     4350.      4350.
X1   23.815       31.      9951.    10037.       650.       680.       655.

        HIGH ARTIFICIAL LEVEE

X3      10.                                                                   1480.      1480.
GR   1470.     9650.      1459.3    9716.      1453.5     9738.      1453.1   9772.     1453.4      9812.
GR   1454.5    9857.      1455.1    9890.       1455.     9914.      1455.4   9941.     1458.9      9951.
GR   1458.     9963.      1451.4    9979.      1449.7     9988.      1449.9   9996.     1449.7     10000.
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```
GR   1449.7    10017.    1454.6    10028.    1457.8    10037.    1456.8    10043.    1456.8    10060.
GR   1456.9    10081.    1457.1    10110.    1458.2    10140.    1458.4    10157.    1459.5    10172.
GR   1458.5    10182.     1456.    10195.    1457.2    10215.    1458.7    10226.    1457.1    10235.
GR   1455.5    10249.

       Q IS NOW CHANGED TO BE THE FULL Q UPSTREAM OF THE BREAKOUT


QT      2.      5300.     5300.
X1  23.912       12.     9967.    10043.      480.      510.      512.

       HIGH ARTIFICIAL LEVEE

X3     10.                                                                1480.     1480.
GR  1463.9     9868.    1461.7     9878.    1460.6     9898.    1460.7     9925.    1461.4     9950.
GR  1461.3     9967.    1451.3     9983.    1447.9     9994.     1448.    10000.    1447.9    10010.
GR  1454.9    10026.    1460.9    10043.

X1  23.989        9.     9937.    10049.      400.      410.      407.
GR  1465.6     9937.    1457.9     9957.    1452.6     9977.    1450.8     9989.    1449.7    10000.
GR  1450.5    10014.    1452.5    10024.     1458.    10036.    1465.8    10049.

       7TH STREET  (SPECIAL BRIDGE).  THE GR CARDS FROM SECTION 24.106 TAKEN
       UPSTREAM OF 7TH STREET ARE REPEATED AT THE DOWNSTREAM FACE OF THE BRIDGE
       AS SECTION 24.086 WITH PSXECE = -1.3.


NC                                  0.3       0.5
X1  24.086       12.     9972.    10044.      450.      560.      512.                -1.3
X3     10.                                                                1463.7    1463.7
GR  1470.1     9942.    1464.1     9955.    1454.9     9972.    1454.9    10044.     1456.    10052.
GR  1458.5    10064.    1461.9    10091.    1463.7    10108.    1465.7    10123.    1466.1    10136.
GR  1466.4    10155.    1467.4    10310.

SB     0.9      1.56        3.      100.      71.6        3.      590.        0.    1453.6    1453.6
X1  24.096                                     56.       56.       56.

       ELTRD IS 1464.7+2HV = 1466.7

X2                          1.    1462.2    1466.7
X3     10.                                                                1466.     1466.

ET                          4.1     9955.    10055.
X1  24.106       13.     9955.    10064.       80.       20.       53.
GR  1470.1     9942.    1464.1     9955.    1455.2     9972.    1454.7     9997.    1454.2    10000.
GR  1454.9    10028.     1456.    10052.    1458.5    10064.    1461.9    10091.    1463.7    10108.
GR  1465.7    10123.    1466.1    10136.    1466.4    10155.

NC                                  0.1       0.3
ET                          4.1     9950.    10050.
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X1   24.195      13.     9933.    10142.      470.      460.      470.
GR   1498.7    9862.    1497.1     9889.    1470.4     9933.    1454.1     9961.    1453.6     9996.
GR   1453.6   10000.    1453.9    10032.    1455.5    10052.    1456.3    10073.    1458.8    10093.
GR   1462.3   10117.    1466.4    10142.    1468.9    10164.

ET                        4.1     9940.    10080.
X1   24.322      11.     9871.    10064.      640.      630.      671.
GR   1473.7    9820.    1463.5     9871.    1453.2     9895.    1451.6     9972.    1452.1    10000.
GR   1454.5   10042.    1456.8    10064.    1457.7    10134.    1459.6    10177.    1465.2    10220.
GR   1470.9   10262.

NC    0.045    0.045     0.045
ET                        4.1     9927.    10080.
X1   24.444      16.     9928.    10122.      640.      600.      644.
GR   1478.8    9885.    1478.7     9906.     1465.     9928.    1457.6     9939.     1458.     9972.
GR   1457.3    9995.    1457.7    10000.    1459.1    10027.    1460.4    10064.    1459.3    10097.
GR   1461.7   10122.    1458.9    10142.    1460.7    10166.    1460.3    10180.    1468.5    10215.
GR   1474.2   10230.

ET                        4.1     9950.    10160.
X1   24.542      20.     9914.    10187.      470.      530.      517.
GR   1488.2    9844.     1464.     9914.    1463.2     9948.    1460.4     9968.    1459.8     9996.
GR   1459.8   10000.    1461.4    10017.    1462.3    10033.    1470.7    10056.    1470.3    10083.
GR   1472.2   10112.    1470.9    10127.    1464.4    10141.    1462.5    10166.     1463.    10171.
GR   1464.7   10175.    1467.8    10187.    1473.8    10237.    1475.2    10268.    1478.9    10283.
```

THE DEER VALLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL CROSS SECTION. THE DEER VALLEY ROAD CENTERLINE IS AT RM 24.635.

```
ET                        4.1     9940.    10060.
X1   24.635       8.     9876.    10111.      650.      220.      491.
GR   1480.9    9752.    1474.5     9876.     1467.     9983.    1466.8    10000.    1467.9    10037.
GR   1472.4   10111.    1478.6    10193.    1480.1    10247.

QT       2.    5200.     5200.
```

DIVIDED FLOW OCCURS FROM SECTION 24.738 TO 25.163. ALTHOUGH THE RIGHT OVERBANK IS SOMETIMES LOWER THAN THE CHANNEL, EFFECTIVE FLOW IS CONTROLLED DOWNSTREAM AT SECTION 24.738. OVERBANK LOW ELEVATIONS ARE ARTIFICIALLY ADJUSTED AT SECTIONS 24.838 TO 25.163 TO YIELD QROB = QROB AT SECTION 24.738 + OR - 10%. NATURAL CONDITIONS AT SECTION 25.048 RESULT IN A QROB THAT IS LESS THAN SECTION 24.738.

```
ET                        4.1     9936.    10200.
X1   24.738      21.     9897.    10038.      350.      630.      544.
GR   1490.4    9703.    1489.7     9717.    1479.2     9736.    1479.3     9805.    1477.7     9884.
GR   1481.2    9897.    1477.6     9931.    1472.8     9965.    1472.3     9986.     1472.    10000.
GR   1473.5   10023.    1480.9    10038.    1476.7    10045.    1480.8    10067.    1477.6    10079.
GR   1473.6   10088.    1473.6    10127.    1472.5    10224.    1474.4    10291.    1473.6    10330.
GR   1477.6   10343.
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ET                          4.1      9968.      10350.
X1   24.838        20.      9945.     10019.       470.       450.       528.
  1488.5   9909.  1483.8   9945.  1477.7   9986.  1474.8   9991.  1474.7  10000.
   1475.  10004.  1483.5  10019.  1477.3  10032.  1479.5  10066.  1469.1  10111.
  1467.6  10133.  1468.5  10162.  1472.5  10185.  1469.9  10199.  1469.7  10219.
   1470.  10270.   1466.  10365.   1466.  10450.   1468.  10630.   1490.  10660.
GR   1488.5      9909.     1483.8      9945.      1477.7      9986.      1474.8      9991.      1474.7      10000.
GR    1475.     10004.     1483.5     10019.      1479.     10032.      1479.5     10066.      1479.      10111.
GR    1479.     10133.      1479.     10162.      1479.     10185.      1479.     10199.      1479.      10219.
GR    1479.     10270.      1479.     10365.      1479.     10450.      1479.     10630.      1490.      10660.

ET                          4.1      9860.      10300.
X1   24.943        17.      9983.     10017.       530.       570.       554.
  1504.8   9651.  1494.9   9694.  1493.1   9736.  1481.7   9813.  1480.7   9926.
  1482.4   9945.  1481.8   9983.   1478.   9990.  1477.9  10000.  1477.7  10004.
  1484.8  10017.  1483.6  10032.  1478.1  10044.   1470.  10080.   1470.  10540.
   1480.  10610.  1503.3  10690.
GR   1504.8      9651.     1494.9      9694.      1493.1      9736.      1481.7      9813.      1480.7      9926.
GR   1482.4      9945.     1481.8      9983.      1478.      9990.      1477.9     10000.      1477.7      10004.
GR   1484.8     10017.     1483.6     10032.      1481.     10044.      1481.     10080.      1481.      10540.
GR    1481.     10610.     1503.3     10690.

ET                          4.1      9850.      10250.
X1   25.048        23.      9966.     10017       580.       520.       554.
GR   1497.2      9659.     1493.6      9692.      1486.7      9707.      1486.      9817.      1486.      9941.
GR   1486.6      9966.     1485.7      9981.      1484.      9986.      1484.     10000.      1493.6     10017.
GR   1488.3     10026.      1486.     10062.      1485.4     10154.      1486.5     10223.      1483.7     10232.
GR   1484.6     10247.      1488.     10258.      1487.5     10405.      1492.2     10420.      1489.      10431.
GR    1484.     10450.      1484.     10470.      1500.     10525.

QT       2.      4900.      4900.
ET                          4.1      9940.      10175.
X1   25.163        16.      9972.     10025.       640.       580.       607.
  1499.3   9878.  1492.6   9917.  1490.2   9947.  1489.9   9965.  1491.6   9972.
  1486.2   9984.  1486.3  10000.   1486.  10005.  1493.1  10025.  1485.3  10044.
  1486.3  10088.  1486.3  10147.  1486.4  10220.  1488.4  10291.  1498.8  10312.
  1499.8  10417.
GR   1499.3      9878.     1492.6      9917.      1490.2      9947.      1489.9      9965.      1491.6      9972.
GR   1486.2      9984.     1486.3     10000.      1486.     10005.      1493.1     10025.      1489.      10044.
GR    1489.     10088.      1489.     10147.      1489.     10220.      1489.     10291.      1498.8     10312.
GR   1499.8     10417.
```

THE BREAKOUT IN THE RIGHT OVERBANK IS NOT EFFECTIVE DUE TO DOWNSTREAM PONDING. HIGH ARTIFICIAL LEVEES HAVE BEEN SET ON THE RIGHT AT SECTIONS 25.262, 25.374, AND 25.434.

```
ET                          4.1      9750.      10023.
X1   25.262        28.      9948.     10030.       470.       570.       523.
X3      10.                                                                      1491.6      1510.
GR   1503.2      9465.     1506.4      9470.      1489.6      9513.      1490.2      9547.      1492.2      9618.
GR   1491.5      9646.     1492.7      9689.      1492.6      9707.      1490.5      9823.      1491.6      9948.
GR   1489.1      9969.     1493.6      9987.      1490.2     10000.      1490.8     10016.      1496.8     10030.
```

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GR   1486.4    10044.    1487.4    10059.     1486.    10070.    1484.4    10260.     1486.    10380.
GR    1492.    10420.     1492.    10450.     1484.    10475.     1484.    10510.     1488.    10535.
GR    1488.    10575.     1488.    10585.     1494.    10610.

ET                          4.1     9925.    10023.
X1   25.374       16.     9969.    10023.      680.      300.      591.
X3     10.                                                                1499.3
GR    1510.     9628.    1498.2     9659.     1496.     9704.    1495.7     9838.    1496.2     9920.
GR    1496.     9933.    1497.8     9944.    1497.8     9950.    1495.6     9955.    1496.7     9963.
GR   1499.3     9969.    1493.5     9986.    1493.3    10000.    1493.5    10011.    1498.8    10023.
GR    1510.   10023.1

NC    0.05     0.035     0.035
ET                          4.1     9970.    10036.
X1   25.434       14.     9968.    10036.      400.      190.      317.
X3     10.                                                                1504.9
GR   1511.5     9463.    1506.8     9561.    1504.8     9631.    1504.9     9716.     1502.     9788.
GR   1501.3     9885.    1500.8     9942.    1500.6     9954.    1504.9     9968.    1496.8     9990.
GR   1496.6    10000.    1495.8    10018.     1504.    10036.     1510.   10036.1

ET                          4.1     9970.    10050.
X1   25.500        9.     9908.    10105.      250.      420.      349.
GR   1511.5     9908.    1506.9     9927.    1504.5     9943.    1499.9     9957.    1497.7    10000.
GR   1498.5    10025.    1503.7    10061.    1507.7    10094.     1509.    10105.

       CAP CANAL OVERSHOOT STRUCTURE


NC                                   0.3       0.5

                SECTION IN DOWNSTREAM OUTLET OF OVERSHOOT IN STILLING POOL

ET                          4.1     9960.    10040.
X1   25.523        9.     9963.    10037.      120.      120.      121.
GR    1510.     9900.     1508.     9930.     1498.     9950.     1498.     9963.     1496.     9964.
GR    1496.    10036.     1498.    10037.     1498.    10050.     1510.    10100.

                SECTION AT DOWNSTREAM CREST OF OVERSHOOT WHERE FLOW PASSES
                THROUGH CRITICAL DEPTH. DO NOT ENCROACH.


NC    0.05     0.035     0.015
X1   25.534        4.     9963.    10037.       58.       58.       58.
GR    1515.     9963.   1505.54     9964.   1505.54    10036.     1515.    10037.

                SECTION AT UPSTREAM END OF NARROW CHUTE. DO NOT ENCROACH.


X1   25.551                                     90.       90.       90.

                SECTION AT UPSTREAM FLARED ENTRANCE TO OVERSHOOT. DO NOT
                ENCROACH.
```

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X1   25.557      4.     9954.    10046.       32.       32.       32.
GR    1515.    9954.   1505.54    9973.   1505.54    10027.     1515.    10046

                NATURAL SECTION UPSTREAM OF OVERSHOOT.  SET ENCROACHMENTS
                TO NATURAL SSTA & ENDSTA.

NC    0.035    0.035    0.035
QT       2.    2900.    2900.
ET                       4.1     9949.    10050.
X1   25.561      5.     9948.    10069.       20.       20.       21.
GR   1514.9    9948.   1505.6     9971.   1505.7    10000.   1506.3    10048.    1515.2    10069.

NC                                 0.1       0.3
QT       2.    2700.    2700.
ET                       4.1     9950.    10050.
X1   25.680     36.     9927.    10093.      580.      660.      628.
GR   1519.8    9136.   1518.8    9203.   1516.1     9267.   1515.7     9325.    1515.7     9359.
GR   1516.7    9372.   1514.9    9462.   1514.2     9504.   1515.2     9516.    1515.6     9559.
GR   1515.7    9593.    1515.    9622.   1516.9     9637.   1515.3     9653.    1512.1     9664.
GR   1512.4    9688.   1513.8    9704.   1518.5     9720.   1510.6     9747.    1514.3     9796.
GR   1513.9    9866.   1514.4    9927.   1508.7     9946.   1511.3     9961.    1511.2     9985.
GR   1506.5    9997.   1506.8   10000.   1506.8    10011.   1510.5    10022.    1511.1    10057.
GR   1509.6   10063.   1511.2   10093.   1512.4    10167.    1510.    10278.    1508.7    10295.
GR   1534.1   10338.

QT       2.    2500.    2500.
ET                       4.1     9982.    10082.
X1   25.786     32.     9978.    10056.      600.      470.      560.
X3      10.                                                      1518.9
GR   1522.7    9477.   1522.5    9507.   1515.5     9529.   1515.7     9575.    1514.1     9667.
GR   1514.3    9705.   1513.4    9736.    1517.     9753.   1516.8     9776.    1517.2     9794.
GR   1513.5    9822.   1516.2    9837.   1512.2     9848.   1516.5     9872.    1514.6     9883.
GR    1517.    9913.    1517.    9922.   1515.2     9944.   1518.9     9964.    1518.9     9978.
GR   1511.2    9990.   1511.4   10000.   1510.7    10010.   1514.5    10020.    1512.2    10041.
GR   1515.8   10056.   1515.3   10189.   1517.3    10353.   1515.1    10418.     1514.    10435.
GR   1514.2   10440.   1532.8   10465.

QT       2.    2300.    2300.
ET                       4.1     9959.    10059.
X1   25.947     14.     9950.    10066.      870.      830.      850.
GR    1524.    9816.   1522.7    9917.   1522.7     9950.   1518.8     9971.    1518.3     9986.
GR   1514.4   10000.   1514.5   10011.   1518.4    10028.   1519.7    10037.    1520.6    10066.
GR   1519.3   10107.   1518.2   10113.   1518.8    10119.   1529.5    10139.

QT       2.    2200.    2200.
ET                       4.1     9950.    10023.
X1   26.058     15.     9966.    10024.      540.      570.      586.
GR   1529.2    9598.   1526.6    9747.   1527.1     9765.    1526.     9790.    1523.3     9845.
GR   1522.1    9904.   1521.1    9927.    1521.     9951.    1522.     9966.    1520.8     9976.
GR   1517.4   10000.   1516.2   10010.   1516.8    10014.    1524.    10024.    1541.9    10048.
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QT      2.      2000.     2000.
ET                         4.1     9970.     10040.
X1   26.152       13.     9956.    10069.       240.      550.      496.
GR   1530.2     9789.    1529.9     9847.    1527.3     9895.    1525.4     9956.    1522.3     9972.
GR    1520.     9982.    1520.1    10000.    1520.5    10018.    1522.2    10050.     1526.    10069.
GR   1530.7    10102.    1531.9    10114.    1533.1    10139.

QT      2.      1900.     1900.
ET                         4.1     9973.     10060.
X1   26.265       10.     9955.    10029.       580.      610.      597.
GR   1533.9     9829.    1533.6     9913.    1534.3     9916.    1531.7     9955.    1523.8     9995.
GR    1522.    10000.    1522.5    10010.    1524.8    10015.    1526.5    10029.    1529.5    10115.

QT      2.      1700.     1700.
ET                         4.1     9967.     10064.
X1   26.372       14.     9966.    10080.       600.      510.      565.
GR   1558.5     9909.    1544.2     9928.    1535.7     9945.    1531.6     9966.    1528.4     9981.
GR   1525.9     9990.    1523.9     9995.    1523.8    10000.    1527.3    10016.    1526.6    10034.
GR   1529.9    10055.    1533.8    10080.    1534.6    10100.    1535.5    10116.

QT      2.      1600.     1600.
ET                         4.1     9955.     10045.
X1   26.492       17.     9866.    10084.       640.      610.      634.
GR   1539.5     9819.    1538.5     9851.    1537.5     9866.    1533.3     9880.    1530.9     9891.
GR   1530.2     9920.    1527.7     9953.    1525.8     9972.    1525.8     9994.    1525.7    10000.
GR   1526.2    10019.    1528.4    10039.    1530.4    10062.    1534.8    10078.     1536.    10084.
GR   1536.4    10097.    1537.1    10100.

NC     0.04      0.04      0.03
QT      2.      1300.     1300.
ET                         4.1     9945.     10025.
X1   26.582       37.     9869.    10028.       460.      480.      475.
GR   1538.6     9388.    1538.3     9411.     1535.     9445.    1532.2     9471.    1530.3     9493.
GR   1526.4     9510.    1525.5     9519.    1525.3     9539.    1526.3     9568.    1526.5     9602.
GR   1527.2     9622.    1526.7     9655.    1527.3     9691.    1526.9     9725.    1527.2     9752.
GR   1527.4     9786.    1528.1     9817.    1527.9     9845.    1528.2     9869.    1526.9     9894.
GR   1524.1     9911.    1524.9     9937.    1525.2     9958.    1525.6     9983.    1525.7    10000.
GR    1526.    10014.    1527.2    10028.    1526.4    10047.    1527.2    10086.    1526.5    10123.
GR   1526.8    10140.    1528.8    10157.    1528.8    10176.    1533.8    10195.    1536.6    10211.
GR   1536.7    10224.    1537.5    10226.

ET                         4.1     9970.     10030.
X1   26.673       44.     9955.    10077.       510.      460.      480.
X3      10.                                                                 1535.
GR   1549.8     9490.    1541.8     9544.    1534.8     9585.    1533.1     9600.    1531.8     9629.
GR   1530.8     9656.    1530.5     9681.    1530.5     9715.    1530.5     9748.    1531.1     9773.
GR   1532.3     9803.    1532.9     9829.    1532.6     9851.    1532.1     9868.    1532.7     9898.
GR   1532.9     9922.    1532.6     9944.    1534.3     9955.    1532.6     9970.    1532.7     9988.
GR   1532.8    10000.    1531.8    10013.    1532.6    10023.    1532.2    10047.    1531.9    10061.
GR   1533.2    10077.    1533.2    10105.    1534.5    10130.    1536.4    10141.    1537.8    10149.
GR   1537.4    10165.    1536.9    10192.    1533.6    10205.    1533.2    10237.    1533.2    10265.
GR   1534.2    10285.    1534.8    10304.    1535.1    10331.    1535.6    10348.    1539.7    10359.
GR   1539.2    10378.    1539.9    10387.     1552.    10411.    1550.3    10420.
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QT      2.      1100.     1100.
ET                         4.1      9981.     10031.
X1   26.784       29.     9975.     10080.      590.      530.      586.
GR   1551.2     9628.     1553.4    9629.     1551.5    9652.     1550.5    9674.     1549.6    9695.
GR   1548.7     9721.     1549.2    9749.     1548.9    9783.     1549.4    9822.     1549.5    9859.
GR   1549.4     9898.     1549.7    9925.     1550.7    9951.     1551.2    9975.     1542.7    9985.
GR   1543.2    10000.     1544.4   10019.     1545.4   10045.     1550.2   10069.     1551.5   10080.
GR   1550.8    10091.     1551.    10110.     1551.    10132.     1550.9   10150.     1551.    10162.
GR   1552.5    10191.     1552.7   10228.     1552.    10271.     1551.9   10279.

QT      2.      1000.     1000.
ET                         4.1      9975.     10025.
X1   26.983       21.     9773.     10122.      530.      500.      523.
GR   1555.5     9726.     1549.5    9759.     1544.7    9773.     1542.     9791.     1540.1    9803.
GR   1540.1     9895.     1540.1   10000.     1540.1   10062.     1540.6   10074.     1541.3   10093.
GR   1542.8    10122.     1542.6   10148.     1542.5   10166.     1544.1   10179.     1546.3   10194.
GR    1549.    10209.     1553.7   10235.     1555.3   10255.     1557.4   10265.     1557.4   10279.
GR   1556.2    10282.

QT      2.      900.      900.
ET                         4.1      9975.     10025.
X1   26.984       32.     9943.     10170.      480.      460.      533.
GR   1560.6     9811.     1559.7    9833.     1557.2    9861.     1554.5    9891.     1549.4    9920.
GR   1545.5     9943.     1543.8    9953.     1542.3    9968.     1542.1   10000.     1545.1   10012.
GR   1540.6    10023.     1540.6   10107.     1540.6   10124.     1541.7   10135.     1540.5   10147.
GR   1540.5    10156.     1546.5   10170.     1547.3   10189.     1547.5   10203.     1547.7   10218.
GR   1546.7    10231.     1543.5   10241.     1542.8   10256.     1542.3   10271.     1542.3   10282.
GR   1544.6    10290.     1543.4   10300.     1543.3   10310.     1544.8   10323.     1545.3   10333.
GR   1552.9    10356.     1551.6   10369.

ET                         4.1      9883.7    10013.1
X1   27.060       33.     9980.     10019.      270.      470.      401.
X3      10.                                                         1565.
GR   1566.5     9583.     1559.9    9608.     1557.5    9614.     1557.6    9617.     1560.3    9624.
GR   1560.6     9643.     1560.9    9670.     1559.8    9683.     1559.6    9706.     1560.     9720.
GR   1559.4     9740.     1559.5    9772.     1560.4    9795.     1560.     9824.     1558.8    9852.
GR   1558.7     9879.     1558.9    9895.     1558.5    9911.     1559.2    9940.     1560.     9954.
GR   1559.7     9963.     1560.6    9967.     1560.8    9980.     1554.6    9997.     1554.1   10000.
GR   1555.1    10005.     1562.6   10019.     1562.2   10040.     1562.1   10056.     1563.4   10068.
GR   1565.2    10081.     1566.    10093.     1563.9   10103.

QT      2.      600.      600.
ET                         4.1      9881.1    10020.
X1   27.166       36.     9977.     10023.      560.      560.      560.
X3      10.                                                         1565.     1565.
GR    1572.     9622.     1572.2    9639.     1571.5    9661.     1569.4    9686.     1568.5    9709.
GR   1568.1     9719.     1568.4    9730.     1567.4    9742.     1567.1    9762.     1567.9    9772.
GR   1568.8     9787.     1567.6    9811.     1566.7    9830.     1566.     9847.     1562.3    9858.
GR   1558.7     9868.     1557.6    9870.     1558.4    9872.     1560.6    9875.     1560.9    9884.
GR   1560.9     9911.     1560.8    9943.     1560.7    9955.     1564.2    9963.     1564.2    9977.
GR   1555.2     9995.     1555.2   10000.     1555.2   10008.     1563.9   10023.     1563.9   10038.
GR   1561.1    10043.     1561.1   10067.     1560.8   10098.     1560.9   10129.     1561.5   10142.
GR   1562.8    10146.
```

SECTION 27.294 IS NEAR THE DOWNSTREAM OUTLET OF CAVE BUTTE DAM.

```
QT      2.      400.     400.
ET                        4.1     9972.    10022.2
X1   27.294      26.     9967.    10027.     710.     630.     676.
GR   1591.6    9811.    1589.8     9827.    1587.9    9839.    1589.7    9851.    1588.2    9870.
GR   1585.6    9883.    1584.2     9888.    1584.4    9900.    1583.9    9914.    1568.3    9948.
GR   1565.9    9954.    1565.2     9967.    1558.3    9980.    1557.2    9984.    1556.2    9987.
GR    1556.   10000.     1556.    10007.    1564.6   10027.    1565.6   10037.     1573.   10054.
GR   1572.8   10074.    1573.4    10093.     1574.   10112.     1575.   10135.    1575.4   10163.
GR   1573.6   10171.
```

THE CENTERLINE OF CAVE BUTTE DAM IS AT RM 27.365.

FOLLOWING IS THE TRUBUTARY RUN FOR THE EAST FORK OF CAVE CREEK.

SECTION 19.56 IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST FORK. THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE EAST FORK OF CAVE CREEK. THE CONFLUENCE OCCURS AT RM 19.608

```
NC    0.035    0.035    0.035      0.1      0.3
QT       2.   14600.   14600.
ET                        4.1   9921.37    10061.
X1   -19.56      17.     9929.    10065.     730.     720.     729.
GR   1346.1    9801.    1329.7     9902.    1329.7    9929.    1316.5    9950.    1316.8    9978.
GR   1315.6   10000.    1315.6    10008.    1316.6   10026.    1316.4   10035.    1317.5   10043.
GR   1330.6   10065.    1330.8    10099.    1330.5   10146.    1330.2   10195.    1330.9   10208.
GR   1331.2   10223.    1332.1    10301.
```

SECTION 0.029 IS JUST UPSTREAM OF THE CONFLUENCE WITH CAVE CREEK WASH. SECTION 19.556 DOWNSTREAM IN THE WASH IS USED TO START THE RUN ON THE EAST FORK.

```
QT       2.    9500.    9500.
NC    0.035    0.035    0.015
ET                        4.1   9942.56    10073.1
X1    0.029      15.     9942.    10043.     380.     450.     430.
GR   1336.7    9849.    1332.4     9893.    1329.5    9942.    1326.3    9954.    1326.3    9963.
GR   1319.8    9982.    1319.6     9995.    1319.6   10000.    1319.6   10019.    1328.2   10043.
GR    1330.   10090.    1330.3    10128.    1332.4   10166.    1333.1   10216.    1333.1   10217.

NC    0.035    0.035     0.03
ET                        4.1     9905.    10092.
X1    0.112      22.     9887.    10101.     430.     450.     483.
GR   1357.6    9597.    1333.1     9743.    1332.6    9804.    1332.    9816.    1331.8    9863.
GR   1332.1    9887.    1329.4     9906.    1329.4    9915.    1323.4   9937.    1322.3    9949.
GR   1321.5    9985.    1321.6     9999.    1321.6   10000.    1322.   10037.    1323.2   10049.
GR   1329.3   10076.    1334.8    10101.    1334.8   10139.    1333.4   10214.    1334.8   10286.
```

```
GR   1334.5     10320.     1334.5     10321.

ET                          4.1       9910.      10110.
X1    0.198        26.     9897.      10133.       460.       420.       454.
GR   1334.8      9569.     1336.5      9570.     1335.1      9591.     1335.7      9694.     1333.8      9754.
GR   1333.3      9863.     1332.4      9897.     1329.4      9916.     1325.5      9937.     1323.8      9965.
GR   1324.5      9981.     1324.8      9999.     1324.8     10000.     1324.1     10044.     1324.5     10058.
GR   1328.8     10085.     1328.8     10093.     1336.3     10122.     1337.8     10133.     1336.      10138.
GR   1337.3     10170.     1337.1     10262.      1337.     10356.     1345.1     10370.     1337.1     10382.
GR   1336.7     10417.

ET                          4.1       9903.      10054.
X1    0.288        20.     9885.      10069.       470.       460.       475.
GR   1338.2      9550.     1337.6      9684.     1336.1      9733.     1336.9      9848.     1336.      9885.
GR   1328.9      9933.     1326.6      9954.     1325.9      9978.     1325.7     10000.     1328.5     10026.
GR   1335.9     10069.     1335.9     10078.     1336.7     10089.     1336.2     10101.     1338.      10213.
GR   1339.6     10443.     1347.3     10459.      1341.     10472.     1341.9     10485.     1339.9     10517.

ET                          4.1       9912.      10094.
X1    0.398        19.     9904.      10119.       600.       540.       581.
GR   1340.2      9739.     1340.7      9804.     1339.3      9843.     1338.9      9904.     1330.2      9949.
GR   1329.4      9979.     1328.8     10000.     1329.7     10061.     1338.1     10098.     1338.1     10105.
GR   1340.6     10119.     1338.4     10126.     1338.6     10168.     1340.5     10175.     1339.9     10190.
GR   1339.7     10352.     1339.2     10456.     1339.5     10478.     1339.8     10533.

ET                          4.1       9904.      10095.
X1    0.482        20.     9937.      10024.       440.       270.       444.
GR   1347.      9903.     1341.4      9904.     1341.1      9937.     1337.1      9953.     1333.4      9962.
GR   1331.2      9988.     1331.3     10000.     1331.3     10008.      1338.     10024.     1340.8     10093.
GR   1340.9     10125.     1341.6     10161.     1340.4     10236.     1341.6     10256.      1340.     10291.
GR   1341.1     10315.     1340.9     10402.     1341.5     10528.     1341.5     10640.      1343.     10910.

ET                          4.1       9870.      10080.
X1    0.575        19.     9869.      10049.       460.       500.       491.
GR   1348.      9777.     1342.8      9778.     1340.2      9869.     1337.1      9896.     1341.1      9944.
GR   1337.8      9977.     1331.7      9990.     1331.5      9997.     1331.5     10000.      1332.     10011.
GR   1338.9     10023.     1343.1     10049.     1342.5     10105.     1343.5     10113.     1342.9     10186.
GR   1341.8     10239.      1342.     10274.     1343.2     10411.     1345.4     10755.

QT       2.      9400.      9400.
ET                          4.1       9875.      10035.
X1    0.697        16.     9847.      10023.       640.       640.       644.
GR   1346.4      9847.     1345.3      9855.     1338.8      9882.     1338.1      9888.     1339.      9900.
GR   1340.4      9912.     1343.4      9919.     1341.4      9921.     1339.9      9950.     1334.9      9967.
GR   1334.6     10000.      1334.     10007.     1341.4     10023.     1343.8     10061.     1345.4     10102.
GR   1346.4     10237.

NC    0.035     0.035      0.035
ET                          4.1       9880.      10040.
X1    0.826        11.     9929.      10050.       680.       660.       681.
GR   1349.5      9815.     1346.4      9893.     1345.5      9929.     1342.7      9969.     1338.8      9974.
GR   1338.8      9988.     1338.8     10000.     1339.2     10009.     1349.5     10050.     1350.1     10066.
GR   1351.     10219.
```

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ET                        4.1     9870.    10030.
X1    0.945       20.     9856.   10034.      680.      600.      628.
GR   1352.7     9469.    1352.6    9548.   1351.8     9674.   1351.8     9704.     1349.     9769.
GR   1349.8     9819.    1349.5    9843.   1348.6     9856.   1345.5     9866.   1346.8     9929.
GR   1347.7     9956.    1340.4    9978.   1340.8    10000.   1340.8    10008.   1349.5    10034.
GR   1350.1    10046.    1350.1   10100.   1352.8    10215.   1353.4    10254.     1353.    10284.

ET                        4.1     9870.    10030.
X1    1.035       22.     9841.   10022.      440.      460.      475.
GR    1354.     9670.    1350.5    9723.   1352.3     9776.    1352.     9795.   1348.6     9823.
GR   1348.4     9832.    1350.8    9841.   1348.1     9844.   1349.2     9871.   1349.4     9908.
GR   1345.9     9921.    1348.6    9941.   1348.1     9948.   1343.9     9966.   1343.3     9983.
GR   1342.3     9992.    1341.9   10000.   1348.8    10022.   1351.2    10046.   1352.5    10059.
GR   1352.4    10100.     1353.   10153.

NC    0.04      0.04      0.04
ET                        4.1     9890.    10050.
X1    1.121       19.     9868.   10069.      480.      440.      454.
GR   1355.2     9850.     1355.    9868.   1348.4     9897.   1346.1     9910.   1345.9     9931.
GR   1346.4     9955.    1345.1    9966.   1343.6     9994.   1343.6    10000.   1348.1    10015.
GR   1348.8    10036.    1350.6   10048.   1351.1    10059.   1353.6    10069.   1354.1    10082.
GR   1354.2    10121.     1355.   10134.   1355.1    10173.    1355.    10175.

ET                        4.1     9950.    10110.
X1    1.204       16.     9949.   10043.      430.      450.      438.
GR   1355.4     9930.    1355.6    9949.   1348.3     9964.   1348.3     9978.   1344.3     9991.
GR   1344.3     9995.    1344.8   10000.   1348.3    10027.   1352.5    10043.   1353.8    10057.
GR   1353.7    10072.    1353.5   10098.   1354.2    10165.   1356.1    10178.   1355.8    10262.
GR   1356.3    10334.

QT       2.     9100.     9100.
ET                        4.1     9905.    10060.
X1    1.315       17.     9904.   10074.      720.      700.      734.
GR   1359.7     9904.    1352.7    9916.   1350.3     9931.   1348.8    10000.   1351.1    10012.
GR   1351.6    10028.    1353.4   10043.   1353.4    10056.   1356.5    10064.     1359.    10074.
GR   1357.8    10085.     1358.   10091.    1358.    10130.    1352.    10150.     1352.    10170.
GR    1358.    10230.     1360.   10240.

NC   0.035     0.035     0.025
```

PER INTERIM FEMA REVIEW COMMENT, TIE THIS STUDY TO THE PREVIOUS FEMA MODEL. CROSS SECTION 1.420 IN THIS MODEL IS TAKEN AT THE SAME LOCATION AS CROSS SECTION "M" ON THE FIRM MAP REVISED SEPTEMBER 29 1989, PLOTTED AT RIVER MILE 1.445. THIS CROSS SECTION CORRESPONDS TO CROSS SECTION 1.492 IN THE 1980 HEC-2 MODEL THAT WAS USED TO DEVELOP THE SEPTEMBER 29, 1989 REVISED FIRM.

ELEVATIONS COMPUTED BY THIS MODEL ARE COMPARED TO ELEVATIONS COMPUTED FOR THE PREVIOUS FLOOD INSURANCE STUDY (REVISED SEPT. 29,1989) ARE SHOWN IN THE TABLE BELOW:

	10 YEAR	50 YEAR	100 YEAR
PREVIOUS STUDY	1359.3	-	1361.0

THIS MODEL	1360.65	1371.17	1361.34
SET BY X5 CARD	1359.3	1360.7	1361.0

100 YEAR FLOOD ELEVATIONS AGREE WITHIN 0.5 FEET. 10 YEAR FLOOD ELEVATIONS DISAGREE DUE TO REVISIONS TO HYDROLOGY SINCE THE PREVIOUS STUDY, PRIMARILY DUE TO INCREASED URBANIZATION OF THE WATERSHED. SINCE THE 100 YEAR BASE FLOOD IS WITHIN ACCEPTABLE AGREEMENT, FLOOD ELEVATIONS AT THE LIMIT OF DETAILED STUDY HAVE BEEN SET BY X5 CARD TO AGREE WITH THE PREVIOUS STUDY. THE 50 YEAR ELEVATIO N, NOT PREVIOUSLY COMPUTED, HAS BEEN INTERPOLATED.

FOLLOWING IS SECTION 1.420 FROM CURRENT TOPO

```
1.420      9.   9895.  10085.    380.    420.    407.
1364.   9860.   1362.   9870.   1360.   9895.   1356.   9910.  1354.9  10000.
1356.  10070.   1360.  10085.   1362.  10100.   1364.  10120.
```

FOLLOWING IS SECTION 1.420 BASED UPON THE PREVIOUS STUDY
THE QT CARD IS BASED ALSO ON THE PREVIOUS STUDY
THE NC VALUES ARE ADJUSTED TO ALLOW USE OF THE X5
WITHOUT BEING OVERRIDDEN BY CRITICAL DEPTH.

```
QT      2.     8400.     8400.
NC    0.02      0.02      0.02
ET                        4.1     9800.    10200.
X1   1.420       25.     9970.    10010.      380.      420.      407.
X5      2.    1361.0    1361.6
GR   1362.     9430.     1360.     9680.     1358.     9745.     1356.     9760.     1356.     9790.
GR   1358.    9790.1     1359.     9810.     1359.     9930.     1358.     9970.     1354.     9980.
GR   1354.   10009.9     1358.    10010.     1360.    10060.     1360.    10195.     1360.    10260.
GR   1360.    10315.     1360.    10330.     1360.    10360.     1360.    10420.     1361.    10460.
GR   1361.    10720.     1360.    10770.     1360.    10775.     1360.    10780.     1364.    10800.
```

```
   SECNO    DEPTH    CWSEL    CRIWS    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


 *PROF 1
0

 CCHV=     .100 CEHV=     .300
 *SECNO 17.588
   17.588    14.09  1283.69      .00  1283.69  1284.02      .33      .00      .00  1278.10
   15400.    3411.   11671.     318.    1017.    2338.     134.       0.       0.   1276.40
      .00     3.35     4.99     2.38     .040     .040     .040     .000  1269.60  9777.93
  .000750     440.     496.     560.        0        0        0      .00   451.78 10229.71


 FLOW DISTRIBUTION FOR SECNO=     17.59         CWSEL=   1283.69

 STA=    9778.    9835.    9854.    9873.    9909.    9982.   10193.   10230.
   PER Q=      6.7      5.2      4.0      3.9      2.5     75.8      2.1
    AREA=    307.3    177.5    152.8    192.6    187.0   2337.7    133.8
     VEL=      3.3      4.5      4.0      3.1      2.0      5.0      2.4
   DEPTH=      5.4      9.3      8.0      5.3      2.6     11.1      3.6

 *SECNO 17.662

 3301 HV CHANGED MORE THAN HVINS


 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .50

   17.662    12.22  1283.82      .00      .00  1284.71      .89      .52      .17  1276.40
   15400.    3989.   11365.      47.     606.    1442.      21.      25.       3.   1281.60
      .01     6.58     7.88     2.19     .040     .040     .040     .000  1271.60  9829.44
  .003036     380.     391.     400.        2        0        0      .00   319.71 10149.15


 FLOW DISTRIBUTION FOR SECNO=     17.66         CWSEL=   1283.82

 STA=    9829.    9835.    9844.    9871.    9911.    9941.   10130.   10149.
   PER Q=       .0       .9      5.6      9.3     10.1     73.8       .3
    AREA=      3.1     30.8    139.7    223.0    209.2   1441.9     21.3
     VEL=      1.4      4.3      6.1      6.4      7.5      7.9      2.2
   DEPTH=       .6      3.4      5.2      5.6      7.0      7.6      1.1
```

```
   SECNO    DEPTH    CWSEL    CRIWS    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

*SECNO 17.783

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .66

   17.783    10.18  1285.58      .00      .00  1287.86     2.28     2.74      .42  1280.50
   15400.     296.   14381.     722.      52.    1158.     107.      49.       7.   1281.10
      .03     5.65    12.42     6.77     .040     .040     .040     .000  1275.40  9900.35
  .006939     540.     639.     500.        3        0        0      .00   201.37 10101.72


FLOW DISTRIBUTION FOR SECNO=     17.78         CWSEL=   1285.58

STA=    9900.    9921.   10064.   10074.   10097.   10102.
  PER Q=      1.9     93.4      2.4      2.3       .0
   AREA=     52.5   1157.6     43.8     60.5      2.3
    VEL=      5.7     12.4      8.3      5.9      1.9
  DEPTH=      2.5      8.1      4.4      2.6       .5

*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

   17.932    13.08  1290.98  1290.58      .00  1294.60     3.62     6.34      .40  1289.70
   15400.      60.   15315.      25.      22.    1000.      10.      70.      10.   1290.20
      .04     2.68    15.31     2.46     .040     .040     .040     .000  1277.90  9921.07
  .009453     790.     787.     780.        5       11        0      .00   164.24 10085.31


FLOW DISTRIBUTION FOR SECNO=     17.93         CWSEL=   1290.98

STA=    9921.    9956.   10066.   10083.   10085.
  PER Q=       .4     99.4       .2       .0
   AREA=     22.4   1000.3      9.9       .4
    VEL=      2.7     15.3      2.5      1.2
  DEPTH=       .6      9.1       .6       .2

CCHV=     .300 CEHV=     .500
```

SECNO	DEPTH	CWSEL	CRIWS	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

*SECNO 18.042

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

18.042	12.01	1294.31	.00	.00	1298.14	3.83	3.43	.10	1307.40
15400.	0.	15400.	0.	0.	981.	0.	83.	12.	1307.40
.05	.00	15.70	.00	.000	.025	.000	.000	1282.30	9951.61
.004040	620.	581.	550.	4	0	0	.00	96.76	10048.37

FLOW DISTRIBUTION FOR SECNO= 18.04 CWSEL= 1294.31

STA= 9952. 10049.
PER Q= 100.0
AREA= 980.7
VEL= 15.7
DEPTH= 10.1

SPECIAL BRIDGE

SB	XK	XKOR	CDFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	.00	75.00	4.00	1059.00	.81	1280.20	1279.90

*SECNO 18.061

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1299.43	1299.04	1.15	0.	15400.	1059.	1060.	1293.20	1301.60	0.

18.061	13.34	1296.44	.00	.00	1299.43	2.99	1.29	.00	1308.20
15400.	0.	15400.	0.	0.	1110.	0.	86.	12.	1308.20
.06	.00	13.88	.00	.000	.025	.000	.000	1283.10	9951.54
.002757	101.	101.	101.	4	0	0	.00	96.89	10048.43

FLOW DISTRIBUTION FOR SECNO= 18.06 CWSEL= 1296.44

```
   SECNO    DEPTH    CWSEL    CRIWS    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


STA=    9952.   10049.
  PER Q=    100.0
   AREA=   1109.9
    VEL=     13.9
  DEPTH=     11.5

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.03

   18.081    18.44  1299.54      .00      .00  1300.24      .71      .13      .69  1286.60
   15400.    1236.   12529.    1636.     322.    1738.     383.      90.      13.   1284.90
      .06     3.84     7.21     4.27     .035     .035     .035     .000  1281.10  9876.94
  .000672      80.     106.     130.        3        0        0      .00   229.58 10106.51


FLOW DISTRIBUTION FOR SECNO=     18.08         CWSEL=   1299.54

STA=    9877.    9899.    9942.   10045.   10088.   10107.
  PER Q=       .1      7.9     81.4     10.5       .2
   AREA=     14.7    306.9   1737.8    362.8     20.7
    VEL=       .8      4.0      7.2      4.4      1.2
  DEPTH=       .7      7.1     16.9      8.4      1.1

CCHV=     .100 CEHV=     .300
*SECNO 18.174
   18.174    18.52  1300.22      .00      .00  1300.52      .30      .24      .04  1288.70
   15400.    1570.   11409.    2421.     475.    2330.    1163.     126.      17.   1294.60
      .09     3.30     4.90     2.08     .035     .035     .035     .000  1281.70  9856.87
  .000364     500.     491.     490.        2        0        0      .00   597.84 10454.71


FLOW DISTRIBUTION FOR SECNO=     18.17         CWSEL=   1300.22

STA=    9857.    9904.    9915.    9919.   10073.   10142.   10182.   10236.   10455.
  PER Q=      5.0      3.9      1.3     74.1      4.6      4.8      4.1      2.3
   AREA=    288.0    138.3     48.9   2330.4    313.6    260.8    268.3    320.4
    VEL=      2.6      4.4      4.1      4.9      2.2      2.8      2.4      1.1
  DEPTH=      6.1     12.6     12.2     15.1      4.5      6.5      5.0      1.5
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 18.269

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .64

   18.269    16.37  1300.17      .00      .00  1300.93      .76      .27      .14  1288.40
   15400.    2262.   12456.     682.     445.    1677.     199.     162.      22.  1292.40
      .11     5.08     7.43     3.43     .035     .035     .035     .000  1283.80  9881.86
  .000901     500.     502.     500.        2        0        0      .00   228.73 10110.59


FLOW DISTRIBUTION FOR SECNO=     18.27         CWSEL=   1300.17

STA=    9882.    9928.    9942.   10060.   10071.   10111.
  PER Q=      7.5      7.2     80.9      2.3      2.1
   AREA=    278.5    166.9   1677.2     76.7    122.2
    VEL=      4.1      6.7      7.4      4.6      2.7
  DEPTH=      6.0     11.9     14.2      7.0      3.1

*SECNO 18.362
   18.362    15.24  1300.54      .00      .00  1301.51      .97      .51      .06  1290.00
   15400.    1154.   13225.    1021.     240.    1585.     239.     187.      25.  1290.60
      .13     4.80     8.34     4.26     .035     .035     .035     .000  1285.30  9895.20
  .001223     490.     491.     510.        2        0        0      .00   212.97 10108.18


FLOW DISTRIBUTION FOR SECNO=     18.36         CWSEL=   1300.54

STA=    9895.    9905.    9942.   10060.   10108.
  PER Q=       .1      7.4     85.9      6.6
   AREA=      9.5    230.7   1585.2    239.3
    VEL=      1.4      4.9      8.3      4.3
  DEPTH=      1.0      6.2     13.4      5.0

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   18.445    18.09  1305.39  1305.39      .00  1307.48     2.09      .94      .34  1290.00
   15400.    5166.    3758.    6476.     570.     218.     716.     206.      28.  1290.00
      .14     9.06    17.27     9.05     .035     .035     .035     .000  1287.30  9885.22
  .004315     470.     440.     460.       20       11        0      .00   386.47 10271.68
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SECNO	DEPTH	CWSEL	CRIWS	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

FLOW DISTRIBUTION FOR SECNO= 18.44 CWSEL= 1305.39

STA=	9885.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10272.
PER Q=	3.3	18.8	11.5	24.4	30.6	4.3	3.9	3.2	.1	
AREA=	93.8	327.2	149.0	217.6	363.7	87.8	107.0	143.3	14.0	
VEL=	5.4	8.8	11.9	17.3	12.9	7.5	5.7	3.5	.9	
DEPTH=	2.7	5.6	10.6	16.7	10.4	4.4	2.9	1.4	.2	

SPECIAL BRIDGE

SB	XK	XKOR	CDFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9123.38	1308.44	.96	15108.	298.	33.	33.	1294.20	1299.50	458.

18.456	19.61	1307.31	.00	.00	1308.31	1.00	.83	.00	1290.40
15400.	5168.	2971.	7261.	741.	238.	1182.	208.	28.	1290.40
.14	6.97	12.51	6.14	.035	.035	.035	.000	1287.70	9873.21
.002014	60.	60.	60.	3	0	8	.00	443.73	10316.94

FLOW DISTRIBUTION FOR SECNO= 18.46 CWSEL= 1307.31

STA=	9873.	9880.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10310.	10317.
PER Q=	.0	4.6	19.1	9.8	19.3	26.2	4.8	5.4	7.6	3.0	.0	
AREA=	2.4	152.8	415.8	170.4	237.5	417.2	118.4	163.5	300.7	178.1	4.6	
VEL=	1.0	4.6	7.1	8.9	12.5	9.7	6.2	5.1	3.9	2.6	1.4	
DEPTH=	.4	3.8	7.2	12.2	18.3	11.9	5.9	4.4	2.9	1.6	.7	

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.09

   18.545    18.98  1308.28      .00      .00  1308.76      .47      .39      .05  1294.10
   15400.    1745.   11300.    2355.     495.    1857.     682.     236.      32.   1293.80
      .17     3.53     6.08     3.45     .035     .035     .035     .000  1289.30  9881.31
  .000460     440.     466.     480.        2        0        0      .00   288.68 10169.98


FLOW DISTRIBUTION FOR SECNO=     18.55          CWSEL=   1308.28

STA=    9881.    9889.    9951.   10058.   10073.   10094.   10108.   10121.   10135.   10170.
  PER Q=      .0     11.3     73.4      5.4      4.8      1.9      1.0      1.1      1.0
   AREA=     6.1    488.9   1857.3    179.8    188.7     93.6     60.3     67.7     92.4
    VEL=      .8      3.6      6.1      4.6      3.9      3.2      2.5      2.6      1.7
  DEPTH=      .8      7.9     17.4     12.0      9.0      6.7      4.6      4.8      2.6

*SECNO 18.575
   18.575    19.13  1308.43      .00      .00  1308.83      .41      .07      .01  1291.50
   15400.    3584.    3152.    8664.     833.     511.    1732.     247.      33.   1289.70
      .18     4.30     6.17     5.00     .035     .035     .035     .000  1289.30  9880.61
  .000442     160.     160.     160.        2        0        0      .00   290.32 10170.93


FLOW DISTRIBUTION FOR SECNO=     18.58          CWSEL=   1308.43

STA=    9881.    9951.    9972.   10000.   10018.   10040.   10058.   10073.   10094.   10135.   10171.
  PER Q=     11.4     11.8     20.5     13.8     16.2     10.8      5.4      4.8      4.1      1.1
   AREA=    505.0    328.2    511.1    337.1    403.2    293.0    181.9    191.7    227.4     97.5
    VEL=      3.5      5.5      6.2      6.3      6.2      5.7      4.5      3.9      2.8      1.7
  DEPTH=      7.2     15.6     18.3     18.7     18.3     16.3     12.1      9.1      5.5      2.7
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SECNO	DEPTH	CWSEL	CRIWS	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

SPECIAL BRIDGE

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3108.06	1308.92	.09	14974.	431.	57.	56.	1295.40	1299.00	288.

18.583	20.10	1309.50	.00	.00	1309.84	.34	1.00	.00	1291.60
15400.	3685.	3046.	8668.	924.	538.	1901.	250.	34.	1289.80
.18	3.99	5.66	4.56	.035	.035	.035	.000	1289.40	9875.91
.000347	40.	40.	40.	2	0	7	.00	301.44	10177.35

FLOW DISTRIBUTION FOR SECNO= 18.58 CWSEL= 1309.50

STA=	9876.	9951.	9972.	10000.	10018.	10040.	10058.	10073.	10094.	10121.	10177.
PER Q=	12.3	11.6	19.8	13.3	15.7	10.5	5.4	5.1	3.4	2.9	
AREA=	575.5	348.5	538.2	354.6	424.5	310.5	196.5	212.0	183.9	218.7	
VEL=	3.3	5.1	5.7	5.8	5.7	5.2	4.2	3.7	2.8	2.0	
DEPTH=	7.7	16.6	19.2	19.7	19.3	17.2	13.1	10.1	6.8	3.9	

*SECNO 18.640

18.640	19.23	1309.43	.00	.00	1310.07	.64	.14	.09	1294.60
15400.	2346.	9851.	3204.	512.	1351.	711.	271.	36.	1293.40
.19	4.58	7.29	4.51	.035	.035	.035	.000	1290.20	9879.37
.000663	300.	301.	310.	2	0	0	.00	255.52	10134.89

FLOW DISTRIBUTION FOR SECNO= 18.64 CWSEL= 1309.43

STA=	9879.	9887.	9920.	9955.	10033.	10111.	10132.	10135.
PER Q=	.0	2.3	12.9	64.0	20.6	.2	.0	
AREA=	3.9	129.6	378.9	1350.9	688.5	21.6	.6	
VEL=	.7	2.7	5.3	7.3	4.6	1.1	.4	
DEPTH=	.5	3.9	10.8	17.3	8.8	1.0	.2	

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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 18.734
   18.734    17.28  1309.68      .00      .00  1310.53      .84      .40      .06  1298.60
   15400.    1314.   13487.     599.     304.    1748.     175.     298.      38.   1300.80
      .21     4.33     7.72     3.43     .035     .035     .035     .000  1292.40  9883.01
  .000985     490.     496.     500.        0        0        0      .00   228.83 10111.84


FLOW DISTRIBUTION FOR SECNO=     18.73         CWSEL=   1309.68

STA=    9883.    9888.    9938.   10062.   10094.   10104.   10112.
  PER Q=       .0      8.5     87.6      3.7       .1       .1
   AREA=      2.4    301.3   1747.6    152.9     13.8      8.1
    VEL=       .8      4.4      7.7      3.7      1.6      1.3
  DEPTH=       .5      6.0     14.1      4.8      1.4      1.0

*SECNO 18.832
   18.832    16.99  1310.19      .00      .00  1311.04      .85      .51      .00  1302.80
   15400.     438.   12952.    2011.     138.    1658.     398.     324.      41.   1297.10
      .23     3.17     7.81     5.06     .035     .035     .035     .000  1293.20  9891.67
  .001003     480.     517.     540.        2        0        0      .00   216.17 10107.84


FLOW DISTRIBUTION FOR SECNO=     18.83         CWSEL=   1310.19

STA=    9892.    9929.   10046.   10095.   10108.
  PER Q=      2.8     84.1     12.9       .2
   AREA=    137.9   1657.8    381.7     16.0
    VEL=      3.2      7.8      5.2      1.5
  DEPTH=      3.7     14.2      7.8      1.2

*SECNO 18.925
   18.925    16.04  1310.64      .00      .00  1311.60      .97      .53      .03  1297.60
   15400.    1712.   12782.     906.     348.    1524.     210.     349.      43.   1300.00
      .25     4.92     8.39     4.31     .035     .035     .035     .000  1294.60  9887.57
  .001144     480.     491.     500.        2        0        0      .00   200.07 10087.64


FLOW DISTRIBUTION FOR SECNO=     18.92         CWSEL=   1310.64

STA=    9888.    9941.   10048.   10087.
  PER Q=     11.1     83.0      5.9
   AREA=    348.3   1523.8    210.1
    VEL=      4.9      8.4      4.3
  DEPTH=      6.5     14.2      5.4
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   SECNO    DEPTH    CWSEL    CRIWS    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   IOC      ICONT    CORAR    TOPWID     ENDST


*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .63

   19.018    13.29  1310.89      .00      .00  1312.69     1.80      .84      .25  1305.10
   15400.     490.   14883.      27.     107.    1363.      11.     369.      45.   1308.40
      .26     4.58    10.92     2.56     .035     .035     .035     .000  1297.60  9866.12
  .002864     460.     491.     520.        2        0        0      .00   172.44 10038.56


FLOW DISTRIBUTION FOR SECNO=     19.02         CWSEL=   1310.89

STA=    9866.    9903.   10030.   10039.
  PER Q=      3.2     96.6       .2
   AREA=    106.9   1362.9     10.7
    VEL=      4.6     10.9      2.6
  DEPTH=      2.9     10.7      1.2

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   19.117    13.89  1312.49  1312.49      .00  1316.85     4.37     2.18      .77  1302.90
   15400.    1414.   11918.    2068.     149.     652.     198.     383.      47.   1301.50
      .27     9.52    18.27    10.43     .035     .035     .035     .000  1298.60  9942.00
  .006608     490.     523.     560.       20        8        0      .00   120.09 10062.09


FLOW DISTRIBUTION FOR SECNO=     19.12         CWSEL=   1312.49

STA=    9942.    9973.   10026.   10062.
  PER Q=      9.2     77.4     13.4
   AREA=    148.6    652.4    198.2
    VEL=      9.5     18.3     10.4
  DEPTH=      4.8     12.3      5.5
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.61

   19.210    16.99  1317.19      .00      .00  1319.01     1.82     1.90      .25  1312.00
   15400.     227.   14955.     218.      57.    1364.      55.     397.      49.   1312.00
      .28     3.97    10.96     3.96     .035     .035     .035     .000  1300.20  9922.94
  .002538     500.     491.     490.        3        0        0      .00   158.26 10081.20


FLOW DISTRIBUTION FOR SECNO=     19.21          CWSEL=   1317.19

STA=    9923.    9945.   10060.   10081.
  PER Q=      1.5     97.1      1.4
   AREA=     57.2   1364.2     55.0
    VEL=      4.0     11.0      4.0
  DEPTH=      2.6     11.9      2.6

CCHV=     .300 CEHV=     .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1324.00 ELREA=      1324.00

   19.283     8.22  1319.92  1319.92      .00  1324.04     4.12     1.64     1.15  1311.70
   14600.       0.   14600.       0.       0.     896.       0.     408.      50.   1311.70
      .29      .00    16.29      .00     .000     .035     .000     .000  1311.70  9948.00
  .008876     390.     386.     390.       20       11        0      .00   109.00 10057.00


FLOW DISTRIBUTION FOR SECNO=     19.28          CWSEL=   1319.92
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	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

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.71 , NOT 1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1320.16 BRIDGE VELOCITY= 16.51 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.96	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	.00	1324.65	2.60	.61	.00	1311.70
14600.	0.	14600.	0.	0.	1129.	0.	410.	50.	1311.70
.29	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

FLOW DISTRIBUTION FOR SECNO= 19.30 CWSEL= 1322.06

*SECNO 19.313

3301 HV CHANGED MORE THAN HVINS

19.313	11.61	1323.31	.00	.00	1325.17	1.87	.30	.22	1327.90
14600.	0.	14600.	0.	0.	1331.	0.	412.	50.	1325.50
.29	.00	10.97	.00	.000	.035	.000	.000	1311.70	9944.34
.004073	75.	74.	75.	4	0	0	.00	159.66	10104.00

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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     19.31         CWSEL=   1323.31

STA=    9944.   10112.
  PER Q=    100.0
   AREA=   1330.9
    VEL=     11.0
  DEPTH=      8.3

CCHV=     .100 CEHV=     .300
*SECNO 19.418
   19.418    12.59  1325.59      .00      .00  1327.43     1.83     2.25      .00  1328.00
   14600.       0.   14600.       0.       0.    1343.       0.     429.      52.   1326.10
      .31      .00    10.87      .00     .000     .035     .000     .000  1313.00  9955.11
  .004041     570.     554.     530.        2        0        0      .00   162.69 10117.80


FLOW DISTRIBUTION FOR SECNO=     19.42         CWSEL=   1325.59

STA=    9955.   10120.
  PER Q=    100.0
   AREA=   1343.4
    VEL=     10.9
  DEPTH=      8.3

*SECNO 19.560
   19.560    12.61  1328.21      .00      .00  1330.15     1.94     2.69      .03  1329.70
   14600.       0.   14600.       0.       0.    1307.       0.     451.      55.   1330.60
      .32      .00    11.17      .00     .000     .035     .000     .000  1315.60  9931.38
  .003389     730.     729.     720.        2        0        0      .00   129.60 10060.98


FLOW DISTRIBUTION FOR SECNO=     19.56         CWSEL=   1328.21

STA=    9931.   10065.
  PER Q=    100.0
   AREA=   1307.1
    VEL=     11.2
  DEPTH=     10.1
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   SECNO    DEPTH    CWSEL    CRIWS    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


CCHV=     .300 CEHV=     .500
*SECNO 19.625

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.55


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1332.00 ELREA=     1332.00

   19.625    12.29  1329.89      .00      .00  1330.82      .93      .37      .30  1317.60
    5700.       0.    5700.       0.       0.     738.       0.     460.      56.  1317.60
      .34      .00     7.73      .00     .000     .015     .000     .000  1317.60  9965.00
  .000214     580.     364.      70.        2        0        0      .00    60.00 10025.00


FLOW DISTRIBUTION FOR SECNO=     19.63         CWSEL=   1329.89


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00    100.00     60.00      2.00    564.00       .00   1318.60   1317.60

*SECNO 19.691
PRESSURE FLOW


 EGPRS      EGLWC      H3       QWEIR     QPR       BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                             AREA
   1332.37   1331.05      .08        0.    5700.      564.     563.     1328.30   1334.80        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1333.00 ELREA=     1333.00

   19.691    12.93  1331.53      .00      .00  1332.37      .84     1.55      .00  1318.60
    5700.       0.    5700.       0.       0.     776.       0.     466.      56.  1318.60
      .35      .00     7.35      .00     .000     .015     .000     .000  1318.60  9965.00
  .000181     330.     350.     430.        2        0        0      .00    60.00 10025.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     19.69         CWSEL=   1331.53

*SECNO 19.742
   19.742    12.89  1331.99      .00      .00  1332.51      .52      .05      .10  1331.60
    5700.       1.    5699.       0.       3.     986.       1.     471.      57.   1331.00
      .36      .23     5.78      .30     .035     .015     .035     .000  1319.10  9935.22
  .000165      80.     269.     470.        2        0        0      .00   108.35 10043.57


FLOW DISTRIBUTION FOR SECNO=     19.74         CWSEL=   1331.99

STA=    9935.    9948.   10042.   10044.
  PER Q=       .0    100.0       .0
   AREA=      3.4    985.5       .8
    VEL=       .2      5.8       .3
  DEPTH=       .3     10.5       .5

CCHV=     .100 CEHV=     .300
*SECNO 19.847

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .36

   19.847    13.34  1332.14      .00      .00  1332.73      .59      .20      .02  1336.30
    5700.       0.    5700.       0.       0.     925.       0.     483.      58.   1335.80
      .39      .00     6.16      .00     .000     .035     .000     .000  1318.80  9940.63
  .001296     570.     554.     520.        2        0        0      .00   109.85 10050.49


FLOW DISTRIBUTION FOR SECNO=     19.85         CWSEL=   1332.14

STA=    9941.   10062.
  PER Q=    100.0
   AREA=    925.1
    VEL=      6.2
  DEPTH=      8.4

*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS
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   SECNO    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .39

   19.960     7.77  1332.37  1332.22      .00  1334.93     2.55     1.61      .59  1330.00
    5700.      39.    5629.      32.       9.     437.       7.     493.      59.   1330.00
      .40     4.31    12.89     4.25     .035     .035     .035     .000  1324.60  9950.40
  .008699     640.     597.     560.        4       11        0      .00    86.88 10037.28


FLOW DISTRIBUTION FOR SECNO=     19.96          CWSEL=   1332.37

STA=    9950.    9958.   10031.   10037.
  PER Q=       .7     98.8       .6
   AREA=      9.0    436.7      7.5
    VEL=      4.3     12.9      4.3
  DEPTH=      1.2      6.0      1.2

CCHV=     .300 CEHV=     .500
*SECNO 19.974

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.51


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1336.00 ELREA=     1336.00

   19.974     9.51  1333.31      .00      .00  1335.46     2.14      .41      .12  1323.80
    5700.       0.    5700.       0.       0.     485.       0.     494.      59.   1323.80
      .40      .00    11.75      .00     .000     .035     .000     .000  1323.80  9969.00
  .003800     105.      74.      65.        3        0        0      .00    51.00 10020.00


FLOW DISTRIBUTION FOR SECNO=     19.97          CWSEL=   1333.31


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00       .00     51.00      3.00    480.00       .00   1324.10   1323.80

*SECNO 19.986

3301 HV CHANGED MORE THAN HVINS
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SECNO	DEPTH	CWSEL	CRIWS	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

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1336.73	1336.01	.92	0.	5700.	480.	480.	1334.10	1337.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.98	11.45	1335.25	.00	.00	1336.73	1.48	1.27	.00	1323.80
5700.	0.	5700.	0.	0.	584.	0.	494.	60.	1323.80
.40	.00	9.76	.00	.000	.035	.000	.000	1323.80	9969.00
.002047	61.	61.	61.	3	0	0	.00	51.00	10020.00

FLOW DISTRIBUTION FOR SECNO= 19.99 CWSEL= 1335.25

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 1339.40

20.049	11.25	1338.35	1338.35	.00	1341.90	3.54	1.32	1.03	1343.40
5700.	0.	5700.	0.	0.	377.	0.	498.	60.	1339.40
.41	.00	15.11	.00	.000	.035	.000	.000	1327.10	9971.56
.010738	305.	333.	345.	20	8	0	.00	53.63	10025.19

FLOW DISTRIBUTION FOR SECNO= 20.05 CWSEL= 1338.35

STA= 9972. 10027.
PER Q= 100.0
AREA= 377.3
VEL= 15.1
DEPTH= 7.0

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   SECNO    DEPTH    CWSEL    CRIWS    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


CCHV=     .100 CEHV=     .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.69


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1344.00 ELREA=      1340.80

   20.144    12.58  1343.48      .00      .00  1345.07     1.58     2.97      .20  1344.60
    5700.       0.    5589.     111.       0.     549.      33.     504.      61.   1340.80
      .42      .00    10.19     3.41     .000     .035     .040     .000  1330.90  9960.58
  .003744     490.     502.     500.        2        0        0      .00    83.94 10044.51


FLOW DISTRIBUTION FOR SECNO=     20.14         CWSEL=   1343.48

STA=    9961.   10025.   10040.   10045.
  PER Q=     98.0      1.9       .1
   AREA=    548.7     29.8      2.9
    VEL=     10.2      3.6      1.6
  DEPTH=      8.5      2.0       .6

*SECNO 20.242

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1348.00 ELREA=      1342.80

   20.242    12.19  1345.49      .00      .00  1347.06     1.57     1.99      .00  1347.20
    5700.       0.    5546.     154.       0.     545.      40.     511.      62.   1342.80
      .44      .00    10.18     3.83     .000     .035     .040     .000  1333.30  9961.30
  .003942     470.     517.     560.        3        0        0      .00    88.68 10049.98


FLOW DISTRIBUTION FOR SECNO=     20.24         CWSEL=   1345.49

STA=    9961.   10029.   10041.   10050.
  PER Q=     97.3      2.2       .5
   AREA=    545.0     29.9     10.3
    VEL=     10.2      4.3      2.5
  DEPTH=      8.1      2.5      1.1
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 20.335
   20.335    10.14  1347.44      .00      .00  1348.61     1.17     1.51      .04  1344.00
    5700.      32.    5639.      29.      13.     646.      12.     518.      63.   1344.00
      .46     2.48     8.72     2.46     .040     .035     .040     .000  1337.30  9950.57
  .002469     510.     491.     470.        2        0        0      .00    88.31 10038.88


FLOW DISTRIBUTION FOR SECNO=     20.33         CWSEL=   1347.44

STA=    9951.    9958.   10032.   10039.
  PER Q=       .6     98.9       .5
   AREA=     12.8    646.3     11.8
    VEL=      2.5      8.7      2.5
  DEPTH=      1.7      8.7      1.7

CCHV=     .300 CEHV=     .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1351.50 ELREA=     1351.50

   20.347    10.04  1347.24      .00      .00  1349.16     1.92      .18      .38  1337.20
    5700.       0.    5700.       0.       0.     512.       0.     519.      63.   1337.20
      .46      .00    11.13      .00     .000     .035     .000     .000  1337.20  9970.00
  .003174       1.      63.     150.        2        0        0      .00    51.00 10021.00


FLOW DISTRIBUTION FOR SECNO=     20.35         CWSEL=   1347.24


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00    100.00     51.00      3.00    576.00       .00   1337.70   1337.20

*SECNO 20.366
CLASS A LOW FLOW

3420 BRIDGE W.S.=    1347.00 BRIDGE VELOCITY=      12.43     CALCULATED CHANNEL AREA=      446.
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	DLOSS	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

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1349.64	.73	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.77	1347.97	.00	.00	1349.64	1.67	.48	.00	1337.20
5700.	0.	5700.	0.	0.	549.	0.	520.	63.	1337.20
.46	.00	10.38	.00	.000	.035	.000	.000	1337.20	9970.00
.002515	100.	100.	100.	0	0	0	.00	51.00	10021.00

FLOW DISTRIBUTION FOR SECNO= 20.37 CWSEL= 1347.97

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

20.423	11.57	1349.57	.00	.00	1350.51	.94	.65	.22	1345.00
5700.	102.	5266.	332.	37.	656.	87.	524.	64.	1344.30
.47	2.73	8.03	3.82	.040	.035	.040	.000	1338.00	9958.69
.001888	415.	301.	205.	3	0	0	.00	112.82	10071.51

FLOW DISTRIBUTION FOR SECNO= 20.42 CWSEL= 1349.57

STA=	9959.	9975.	10045.	10055.	10072.
PER Q=	1.8	92.4	4.0	1.8	
AREA=	37.2	655.8	49.2	37.7	
VEL=	2.7	8.0	4.7	2.7	
DEPTH=	2.3	9.4	4.9	2.3	

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

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SECNO    DEPTH    CWSEL    CRIWS    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


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1352.50 ELREA=     1352.50

  20.430     9.83  1349.13      .00      .00  1351.13     2.01      .09      .53  1339.30
   5700.       0.    5700.       0.       0.     501.       0.     525.      64.   1339.30
     .47      .00    11.37      .00     .000     .035     .000     .000  1339.30  9985.00
 .003403       1.      37.      65.        2        0        0      .00    51.00 10036.00


FLOW DISTRIBUTION FOR SECNO=    20.43         CWSEL=   1349.13


SPECIAL BRIDGE

SB  XK       XKOR     CDFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
    1.25     1.56     3.00    100.00    51.00     3.00   576.00      .00   1339.30  1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.=    1348.59 BRIDGE VELOCITY=     12.79    CALCULATED CHANNEL AREA=      446.

 EGPRS     EGLWC     H3       QWEIR    QLOW     BAREA   TRAPEZOID     ELLC     ELTRD    WEIRLN
                                                          AREA
  1351.50  1351.64     .80        0.    5700.     576.     576.    1351.30  1355.50       0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1353.50 ELREA=     1353.50

  20.444    10.62  1349.92      .00      .00  1351.64     1.72      .51      .00  1339.30
   5700.       0.    5700.       0.       0.     542.       0.     526.      64.   1339.30
     .47      .00    10.52      .00     .000     .035     .000     .000  1339.30  9985.00
 .002628      70.      70.      70.        0        0        0      .00    51.00 10036.00


FLOW DISTRIBUTION FOR SECNO=    20.44         CWSEL=   1349.92

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

  20.529     9.25  1352.25      .00      .00  1352.95      .70     1.00      .31  1350.20
   5700.     166.    5398.     136.      70.     784.      62.     533.      65.   1350.40
     .49     2.36     6.88     2.22     .040     .035     .040     .000  1343.00  9905.35
 .001924     545.     449.     375.        3        0        0      .00   189.83 10095.18
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     20.53         CWSEL=   1352.25

STA=    9905.    9910.    9947.   10055.   10090.   10095.
  PER Q=       .1      2.8     94.7      2.3       .1
   AREA=      3.6     66.6    784.4     57.8      3.8
    VEL=      1.3      2.4      6.9      2.3      1.3
  DEPTH=       .8      1.8      7.3      1.7       .7

CCHV=     .100 CEHV=     .300
*SECNO 20.628
   20.628    10.01  1353.31      .00      .00  1353.74      .43      .76      .03  1357.10
    5700.       0.    5700.       0.       0.    1089.       0.     545.      67.   1356.30
      .52      .00     5.23      .00     .000     .035     .000     .000  1343.30  9917.80
  .001125     530.     523.     520.        2        0        0      .00   150.61 10068.41


FLOW DISTRIBUTION FOR SECNO=     20.63         CWSEL=   1353.31

STA=    9918.   10076.
  PER Q=    100.0
   AREA=   1089.4
    VEL=      5.2
  DEPTH=      7.2

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   20.725     8.84  1356.04  1356.04      .00  1359.09     3.06     1.32      .79  1360.40
    5700.       0.    5700.       0.       0.     406.       0.     554.      68.   1361.00
      .53      .00    14.03      .00     .000     .035     .000     .000  1347.20  9959.29
  .010764     510.     512.     520.       20       11        0      .00    67.22 10026.51


FLOW DISTRIBUTION FOR SECNO=     20.73         CWSEL=   1356.04

STA=    9959.   10036.
  PER Q=    100.0
   AREA=    406.2
    VEL=     14.0
  DEPTH=      6.0
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   SECNO    DEPTH    CWSEL    CRIWS    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


CCHV=     .300 CEHV=     .500
*SECNO 20.737

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1363.00 ELREA=      1363.00

   20.737     7.27  1358.17  1358.17      .00  1361.84     3.67      .80      .31  1350.90
    5700.       0.    5700.       0.       0.     371.       0.     555.      68.   1350.90
      .53      .00    15.38      .00     .000     .035     .000     .000  1350.90  9968.00
  .009320      80.      80.      80.       20       15        0      .00    51.00 10019.00


FLOW DISTRIBUTION FOR SECNO=     20.74         CWSEL=   1358.17


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1356.93 , NOT    1358.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
    1.25      1.56      3.00    100.00     51.00      3.00    576.00       .00   1351.00   1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.59

CLASS B LOW FLOW

3420 BRIDGE W.S.=    1358.54 BRIDGE VELOCITY=      15.64     CALCULATED CHANNEL AREA=       362.

 EGPRS      EGLWC       H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                                 AREA
       .00   1362.70      .00        0.     5700.      576.      576.     1363.00   1366.00        0.
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1364.00 ELREA=     1364.00

   20.750     9.60  1360.60      .00      .00  1362.70     2.11      .86      .00  1351.00
    5700.      0.    5700.       0.       0.     490.       0.     555.      68.   1351.00
      .53     .00    11.64      .00     .000     .035     .000     .000  1351.00  9968.00
  .003686     71.      71.      71.        0        0        0      .00    51.00 10019.00


FLOW DISTRIBUTION FOR SECNO=     20.75         CWSEL=   1360.60

*SECNO 20.819

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .67


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1366.90 ELREA=     1366.90

   20.819     5.87  1362.37      .00      .00  1364.78     2.41     1.92      .15  1356.50
    5700.      0.    5700.       0.       0.     458.       0.     559.      69.   1356.50
      .54     .00    12.46      .00     .000     .035     .000     .000  1356.50  9965.00
  .008133    375.     365.     345.        3        0        0      .00    78.00 10043.00


FLOW DISTRIBUTION FOR SECNO=     20.82         CWSEL=   1362.37


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1361.20 , NOT    1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00    100.00     77.30      3.30    655.00       .00   1357.40   1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.=    1362.64 BRIDGE VELOCITY=      13.54     CALCULATED CHANNEL AREA=       388.
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   SECNO    DEPTH    CWSEL    CRIWS    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


 EGPRS      EGLWC      H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                             AREA
   1364.20  1366.08      .00        0.     5700.      655.     592.     1365.40   1369.90        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1367.90 ELREA=     1367.90

   20.841     6.98  1364.38      .00      .00  1366.08     1.70     1.31      .00  1357.40
   5700.       0.    5700.       0.       0.     545.       0.     561.      69.   1357.40
     .54      .00    10.46      .00     .000     .035     .000     .000  1357.40  9965.00
  .004551     115.     115.     115.        0        0        0      .00    78.00 10043.00


FLOW DISTRIBUTION FOR SECNO=     20.84         CWSEL=   1364.38

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.53


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1365.30 ELREA=     1367.60

   20.860     9.68  1365.98      .00      .00  1366.67      .69      .28      .30  1365.30
   5700.       86.    5614.       0.      78.     835.       0.     562.      70.   1367.60
     .55     1.11     6.72      .00     .040     .035     .000     .000  1356.30  9800.89
  .001946     90.     100.     110.        2        0        0      .00   261.14 10062.04


FLOW DISTRIBUTION FOR SECNO=     20.86         CWSEL=   1365.98

STA=    9801.    9846.    9942.   10066.
  PER Q=       .4      1.1     98.5
   AREA=     21.8     56.1    834.8
    VEL=      1.0      1.1      6.7
  DEPTH=       .5       .6      7.0
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   SECNO    DEPTH    CWSEL    CRIWS    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   IOC      ICONT    CORAR    TOPWID     ENDST


CCHV=     .100 CEHV=     .300
*SECNO 20.942

3265 DIVIDED FLOW

   20.942     7.69  1367.29      .00      .00  1367.72      .43     1.02      .03  1368.60
    5700.       0.    3724.    1976.       0.     673.     417.     573.      73.   1366.50
      .57      .02     5.53     4.73     .040     .035     .035     .000  1359.60  9629.81
  .002779     530.     433.     490.        2        0        0      .00   313.22 10168.29


FLOW DISTRIBUTION FOR SECNO=     20.94         CWSEL=   1367.29

STA=    9630.   10024.   10027.   10053.   10070.   10114.   10153.   10168.
  PER Q=     65.3       .3      5.3      2.5      6.4     17.0      3.3
   AREA=    673.2      5.1     69.9     37.2     96.3    165.3     43.5
    VEL=      5.5      2.9      4.3      3.8      3.8      5.9      4.3
  DEPTH=      4.0      1.7      2.7      2.2      2.2      4.2      2.8

*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.036     8.45  1371.95  1371.95      .00  1373.07     1.12     1.76      .21  1370.70
    5700.     367.    5203.     130.     186.     587.      56.     584.      77.   1370.40
      .59     1.97     8.87     2.34     .040     .035     .040     .000  1363.50  9568.93
  .004734     490.     496.     490.       20       12        0      .00   520.10 10089.02


FLOW DISTRIBUTION FOR SECNO=     21.04         CWSEL=   1371.95

STA=    9569.    9665.    9728.    9758.    9867.    9912.   10020.   10041.   10075.   10089.
  PER Q=       .7       .5       .1      2.7      2.5     91.3      1.2       .9       .2
   AREA=     31.1     21.8      5.9     75.9     51.6    586.7     24.1     25.4      6.3
    VEL=      1.2      1.3       .9      2.0      2.8      8.9      2.8      2.1      1.5
  DEPTH=       .3       .3       .2       .7      1.1      5.4      1.1       .7       .4
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 21.127
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1374.00 ELREA=     1375.00

   21.127     8.05  1374.75  1374.75      .00  1375.74     1.00     2.13      .01  1374.20
    5700.    1077.    4623.      0.     394.     525.       0.     593.      82.   1375.00
      .61     2.73     8.80     .00     .040     .035     .000     .000  1366.70  9631.62
  .004360     400.     480.     500.       2       10        0      .00   434.39 10066.01


FLOW DISTRIBUTION FOR SECNO=     21.13         CWSEL=   1374.75

STA=    9632.    9634.    9666.    9759.    9860.    9913.    9974.   10067.
  PER Q=      .0      1.7      5.8      6.7      2.9      1.8     81.1
   AREA=     1.4     36.7    115.9    130.9     60.7     48.6    525.4
    VEL=     1.6      2.7      2.8      2.9      2.7      2.1      8.8
  DEPTH=      .6      1.1      1.2      1.3      1.1       .8      5.7

*SECNO 21.230

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.230     8.36  1380.36  1380.36      .00  1381.67     1.30     2.99      .09  1379.30
    5700.     509.    4047.    1144.     153.     392.     191.     603.      87.   1380.60
      .62     3.32    10.33     5.98     .040     .035     .040     .000  1372.00  9818.28
  .007215     560.     544.     500.       20        8        0      .00   304.81 10126.36


FLOW DISTRIBUTION FOR SECNO=     21.23         CWSEL=   1380.36

STA=    9818.    9879.    9930.    9967.   10048.   10083.   10102.   10117.   10126.
  PER Q=     3.2      3.0      2.7     71.0      6.7      6.3      4.7      2.5
   AREA=    57.4     52.7     43.4    391.9     69.9     55.4     42.2     24.0
    VEL=     3.2      3.3      3.5     10.3      5.4      6.4      6.3      5.9
  DEPTH=      .9      1.0      1.2      5.0      2.0      2.9      2.8      2.6
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   SECNO    DEPTH    CWSEL    CRIWS    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

*SECNO 21.363

3265 DIVIDED FLOW

3280 CROSS SECTION     21.36 EXTENDED       .36 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.07

   21.363     9.27  1383.37      .00      .00  1383.90      .53     2.16      .08  1384.40
    5700.      98.    5566.      36.      51.     939.      46.     617.      92.   1382.10
      .66     1.94     5.93      .77     .040     .035     .040     .000  1374.10  9556.04
  .001686     740.     702.     700.        2        0        0      .00   366.91 10337.00


FLOW DISTRIBUTION FOR SECNO=     21.36         CWSEL=   1383.37

STA=    9556.    9923.   10088.   10337.
  PER Q=      1.7     97.7       .6
   AREA=     50.6    939.1     46.3
    VEL=      1.9      5.9       .8
  DEPTH=       .1      6.3       .2

*SECNO 21.484

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.484     8.03  1386.53  1386.53      .00  1387.44      .92     1.88      .11  1386.90
    5700.    2045.    3648.       7.     511.     400.       4.     632.      98.   1386.50
      .68     4.00     9.12     1.63     .040     .035     .040     .000  1378.50  9497.84
  .006378     650.     639.     520.       20       12        0      .00   514.70 10076.82


FLOW DISTRIBUTION FOR SECNO=     21.48         CWSEL=   1386.53
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   SECNO    DEPTH    CWSEL    CRIWS    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


STA=    9498.    9614.    9647.    9678.    9805.    9837.    9867.    9892.    9920.   10026.   10077.
  PER Q=     3.6      3.1      3.3      5.0      6.8      6.6      5.3      2.1     64.0       .1
   AREA=    82.4     47.2     47.4     95.5     74.5     71.4     58.2     34.5    400.0      4.0
    VEL=     2.5      3.8      3.9      3.0      5.2      5.3      5.2      3.5      9.1      1.6
  DEPTH=      .7      1.4      1.5       .8      2.3      2.4      2.3      1.2      4.5       .1

*SECNO 21.576

3265 DIVIDED FLOW

3280 CROSS SECTION     21.58 EXTENDED       .54 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.576     7.14  1389.24  1389.24      .00  1390.02      .78     2.51      .01  1390.00
    5700.     721.    4008.     971.     336.     488.     286.     641.     104.  1388.30
      .70     2.15     8.22     3.39     .040     .035     .040     .000  1382.10  9388.00
  .005020     320.     486.     480.        2       12        0      .00   868.38 10340.54


FLOW DISTRIBUTION FOR SECNO=     21.58         CWSEL=   1389.24

STA=    9388.    9500.    9643.    9821.    9929.   10087.   10140.   10199.   10281.   10341.
  PER Q=     3.6      3.0      3.3      2.7     70.3      6.8      6.0      3.7       .5
   AREA=    89.6     81.4     95.4     69.6    487.8     97.3     94.6     78.7     15.4
    VEL=     2.3      2.1      2.0      2.2      8.2      4.0      3.6      2.7      1.9
  DEPTH=      .8       .6       .5       .6      4.6      1.8      1.6      1.0       .3

*SECNO 21.669

3265 DIVIDED FLOW

3280 CROSS SECTION     21.67 EXTENDED       .18 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.669     9.38  1393.38  1393.38      .00  1393.98      .60     2.28      .02  1393.80
    5500.     905.    2788.    1806.     391.     338.     559.     654.     114.  1392.00
      .72     2.32     8.25     3.23     .040     .035     .040     .000  1384.00  9392.00
  .004519     440.     491.     470.       20       16        0      .00   977.37 10414.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     21.67         CWSEL=   1393.38

STA=    9392.    9515.    9663.    9893.    9949.    9959.   10031.   10074.   10124.   10182.   10245.   10303.   10361.
  PER Q=      3.0      4.9      3.2      5.1       .2     50.7      5.1      4.6      5.6      5.2      4.2      4.5
   AREA=     80.3    122.7     95.6     85.0      6.8    338.0     76.4     76.3     91.4     89.8     76.9     79.8
    VEL=      2.1      2.2      1.8      3.3      1.9      8.3      3.7      3.3      3.4      3.2      3.0      3.1
  DEPTH=       .7       .8       .4      1.5       .7      5.3      1.8      1.5      1.6      1.4      1.3      1.4

STA=   10361.   10401.   10414.
  PER Q=      3.1       .6
   AREA=     54.9     13.1
    VEL=      3.1      2.5
  DEPTH=      1.4      1.0

*SECNO 21.742

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.742     8.78  1395.18  1395.18      .00  1396.38     1.19     1.92      .18  1394.70
    5500.      29.    5239.     232.      29.     583.     122.     663.     121.   1394.20
      .74     1.02     8.98     1.90     .040     .035     .040     .000  1386.40  9744.71
  .005365     430.     385.     390.        2        8        0      .00   525.85 10353.48


FLOW DISTRIBUTION FOR SECNO=     21.74         CWSEL=   1395.18

STA=    9745.    9975.   10091.   10240.   10353.
  PER Q=       .5     95.3      3.1      1.1
   AREA=     28.7    583.5     80.6     41.8
    VEL=      1.0      9.0      2.1      1.5
  DEPTH=       .1      5.0       .5       .4

*SECNO 21.840
   21.840     6.94  1398.04      .00      .00  1398.83      .80     2.42      .04  1396.20
    5500.     946.    4157.     397.     210.     525.     174.     673.     126.   1397.00
      .74     4.50     7.92     2.28     .040     .035     .040     .000  1391.10  9857.22
  .004314     430.     517.     430.        2        0        0      .00   437.88 10295.09
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


FLOW DISTRIBUTION FOR SECNO=     21.84         CWSEL=   1398.04

STA=    9857.    9860.    9882.    9913.    9931.    9946.   10054.   10097.   10145.   10186.   10227.   10273.   10295.
  PER Q=      .0      2.2      7.6      4.7      2.6     75.6      2.9      2.7       .6       .4       .6       .1
   AREA=     1.0     36.1     86.5     52.1     34.4    524.6     55.6     54.8     20.2     16.1     22.6      4.9
    VEL=     1.2      3.4      4.8      5.0      4.2      7.9      2.9      2.7      1.5      1.3      1.5       .9
  DEPTH=      .4      1.6      2.8      2.9      2.3      4.9      1.3      1.1       .5       .4       .5       .2

*SECNO 21.895
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.895     7.77  1399.67  1399.67      .00  1400.47      .80     1.34      .00  1398.00
    5500.    1555.    2864.    1080.     327.     312.     398.     679.     129.  1397.70
      .77     4.75     9.18     2.72     .040     .035     .040     .000  1391.90  9834.78
  .004943     330.     290.     220.        1        8        0      .00   596.22 10431.00


FLOW DISTRIBUTION FOR SECNO=     21.90         CWSEL=   1399.67

STA=    9835.    9885.    9919.    9939.    9975.   10031.   10113.   10187.   10251.   10292.   10364.   10431.
  PER Q=     9.5      9.9      4.3      4.6     52.1      4.2      4.1      4.1      3.1      3.0      1.2
   AREA=   112.3    100.9     49.3     64.9    311.9     84.3     80.6     76.1     54.0     65.9     36.8
    VEL=     4.7      5.4      4.8      3.9      9.2      2.7      2.8      3.0      3.1      2.5      1.8
  DEPTH=     2.2      3.0      2.5      1.8      5.6      1.0      1.1      1.2      1.3       .9       .5

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.01

   21.933     4.06  1400.86      .00      .00  1400.99      .13      .46      .07  1398.00
    5500.    1740.    3230.     530.     809.     952.     270.     686.     133.  1398.00
      .79     2.15     3.39     1.96     .040     .035     .040     .000  1396.80  9314.75
  .001221     210.     210.     210.        2        0        0      .00   970.39 10285.14


FLOW DISTRIBUTION FOR SECNO=     21.93         CWSEL=   1400.86
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  SECNO    DEPTH    CWSEL    CRIWS    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


STA=    9315.    9440.    9590.    9680.    9725.    9780.    9840.    9865.   10140.   10285.
  PER Q=      .4      2.0      6.0      7.2      8.8      5.1      2.1     58.7      9.6
   AREA=    35.1    106.5    167.4    142.2    173.8    129.6     54.0    951.6    269.8
    VEL=      .6      1.0      2.0      2.8      2.8      2.2      2.2      3.4      2.0
  DEPTH=      .3       .7      1.9      3.2      3.2      2.2      2.2      3.5      1.9

*SECNO 21.953

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   21.953     7.06  1401.06  1401.06      .00  1402.01      .94      .20      .24  1400.20
    5500.    2375.    2982.     144.     470.     313.      32.     689.     134.  1398.30
      .79     5.05     9.53     4.45     .045     .045     .045     .000  1394.00  9424.44
  .009459      75.      74.      75.       20       14        0      .00   459.91 10052.98


FLOW DISTRIBUTION FOR SECNO=     21.95          CWSEL=   1401.06

STA=    9424.    9678.    9699.    9714.    9725.    9735.    9759.    9768.    9782.    9810.    9965.    9969.   10029.
  PER Q=     4.1      3.5      4.1      5.2      4.3      4.5      3.3      5.0      5.9      3.2       .3     54.2
   AREA=    94.3     39.1     37.7     38.5     33.6     48.3     27.1     41.5     60.5     45.2      4.4    313.0
    VEL=     2.4      4.9      5.9      7.4      7.1      5.1      6.6      6.6      5.4      3.8      3.4      9.5
  DEPTH=      .4      1.9      2.5      3.5      3.4      2.0      3.0      3.0      2.2       .3      1.1      5.2

STA=   10029.   10053.
  PER Q=     2.6
   AREA=    32.2
    VEL=     4.5
  DEPTH=     1.3

*SECNO 22.065

3265 DIVIDED FLOW
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SECNO	DEPTH	CWSEL	CRIWS	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

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.94

22.065	8.28	1404.08	.00	.00	1404.25	.17	2.17	.08	1404.10
5500.	4155.	1274.	71.	1390.	294.	32.	703.	141.	1402.00
.83	2.99	4.33	2.26	.045	.045	.045	.000	1395.80	9242.08
.002509	430.	591.	630.	4	0	0	.00	777.84	10049.66

FLOW DISTRIBUTION FOR SECNO= 22.07 CWSEL= 1404.08

STA=	9242.	9500.	9594.	9645.	9657.	9680.	9700.	9731.	9785.	9816.	9869.	9890.	9961.
PER Q=	24.1	5.7	7.6	3.2	5.9	5.3	3.8	4.5	6.5	4.9	3.7	.4	
AREA=	500.1	143.7	124.0	44.8	83.5	73.6	69.7	80.3	99.4	92.7	60.5	17.3	
VEL=	2.7	2.2	3.4	4.0	3.9	3.9	3.0	3.1	3.6	2.9	3.3	1.2	
DEPTH=	1.9	1.5	2.4	3.7	3.6	3.7	2.2	1.5	3.2	1.7	2.9	.2	

STA=	9961.	10028.	10050.
PER Q=	23.2	1.3	
AREA=	294.2	31.6	
VEL=	4.3	2.3	
DEPTH=	4.4	1.5	

*SECNO 22.165

3265 DIVIDED FLOW

22.165	10.25	1405.25	.00	.00	1405.46	.21	1.20	.01	1400.90
5500.	4034.	1433.	32.	1387.	266.	24.	723.	150.	1403.70
.87	2.91	5.39	1.33	.045	.045	.045	.000	1395.00	9137.48
.002042	530.	528.	530.	3	0	0	.00	828.27	10060.52

FLOW DISTRIBUTION FOR SECNO= 22.17 CWSEL= 1405.25

SECNO	DEPTH	CWSEL	CRIWS	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

STA=	9137.	9204.	9213.	9222.	9232.	9256.	9308.	9425.	9595.	9637.	9645.	9657.	9669.
PER Q=	6.3	3.5	4.4	3.9	4.4	3.3	3.9	3.3	4.7	3.6	4.9	3.2	
AREA=	119.1	44.6	51.3	50.0	75.7	85.9	131.5	109.1	86.3	43.2	61.2	47.4	
VEL=	2.9	4.3	4.8	4.3	3.2	2.1	1.6	1.6	3.0	4.6	4.4	3.7	
DEPTH=	1.8	5.0	5.7	5.0	3.2	1.7	1.1	.6	2.1	5.4	5.1	4.0	

STA=	9669.	9701.	9834.	9862.	9946.	9983.	10018.	10061.
PER Q=	3.2	4.7	5.0	4.2	6.9	26.1	.6	
AREA=	67.7	111.6	86.4	98.9	116.8	266.1	24.2	
VEL=	2.6	2.3	3.2	2.4	3.3	5.4	1.3	
DEPTH=	2.1	.8	3.1	1.2	3.2	7.6	.6	

*SECNO 22.273

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

22.273	7.26	1406.66	.00	.00	1407.38	.71	1.77	.15	1404.10
5500.	1974.	3526.	0.	438.	454.	0.	738.	157.	1406.90
.90	4.51	7.76	.00	.045	.045	.000	.000	1399.40	9320.96
.006928	470.	570.	580.	2	0	0	.00	419.21	10027.44

FLOW DISTRIBUTION FOR SECNO= 22.27 CWSEL= 1406.66

STA=	9321.	9344.	9359.	9574.	9598.	9754.	9774.	9915.	9933.	10028.
PER Q=	4.7	5.4	3.4	4.9	3.1	6.8	3.1	4.5	64.1	
AREA=	48.7	48.9	64.5	55.6	64.2	62.5	46.1	47.1	454.3	
VEL=	5.3	6.0	2.9	4.8	2.7	6.0	3.7	5.2	7.8	
DEPTH=	2.1	3.3	.3	2.3	.4	3.1	.3	2.6	4.8	

*SECNO 22.410

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

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   SECNO    DEPTH    CWSEL    CRIWS    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


3720 CRITICAL DEPTH ASSUMED
   22.410    10.22  1414.22  1414.22      .00  1415.98     1.76     5.65      .31  1410.70
    5500.     768.    4586.     146.     157.     400.      38.     750.     162.   1411.30
      .92     4.89    11.45     3.83     .045     .045     .045     .000  1404.00  9854.46
  .008756     750.     723.     630.        3       11        0      .00   193.61 10066.88


FLOW DISTRIBUTION FOR SECNO=     22.41         CWSEL=   1414.22

STA=    9854.    9903.    9954.    9967.    9973.   10027.   10067.
  PER Q=      3.5      3.7      4.4      2.4     83.4      2.7
   AREA=     55.7     43.9     38.0     19.6    400.5     38.0
    VEL=      3.5      4.6      6.3      6.8     11.5      3.8
  DEPTH=      1.1       .9      2.9      3.3      7.4      1.0

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  4.56

   22.483    10.96  1416.46      .00      .00  1416.58      .12      .44      .16  1411.10
    5500.     301.    4552.     647.     195.    1524.     375.     762.     165.   1411.20
      .95     1.55     2.99     1.72     .045     .045     .045     .000  1405.50  9874.91
  .000421     380.     385.     390.        3        0        0      .00   325.09 10199.99


FLOW DISTRIBUTION FOR SECNO=     22.48         CWSEL=   1416.46

STA=    9875.    9891.    9915.    9941.   10105.   10120.   10138.   10156.   10175.   10191.   10200.
  PER Q=       .2      1.6      3.7     82.8      2.4      2.2      2.1      2.6      2.1       .3
   AREA=     16.5     65.0    113.3   1523.7     70.6     72.1     69.4     79.9     66.5     16.9
    VEL=       .7      1.3      1.8      3.0      1.9      1.7      1.7      1.8      1.8      1.0
  DEPTH=      1.0      2.7      4.4      9.3      4.7      4.0      3.9      4.2      4.2      1.9

*SECNO 22.578

3301 HV CHANGED MORE THAN HVINS
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   SECNO    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .31

   22.578     9.65  1416.34      .00      .00  1417.33      .99      .50      .26  1416.60
    5500.       0.    5500.       0.       0.     689.       0.     778.     167.   1421.20
      .97      .00     7.98      .00     .000     .045     .000     .000  1406.70  9968.38
  .004498     540.     502.     490.        3        0        0      .00    95.82 10064.20


FLOW DISTRIBUTION FOR SECNO=     22.58         CWSEL=   1416.34

STA=    9968.   10072.
  PER Q=    100.0
   AREA=    688.9
    VEL=      8.0
  DEPTH=      7.2

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.57

   22.675     8.31  1418.01      .00      .00  1418.14      .14      .72      .09  1419.80
    5500.       0.    5500.       0.       0.    1858.       0.     793.     169.   1420.00
     1.02      .00     2.96      .00     .000     .045     .000     .000  1409.70  9740.49
  .000680     570.     512.     480.        2        0        0      .00   287.90 10028.39


FLOW DISTRIBUTION FOR SECNO=     22.67         CWSEL=   1418.01

STA=    9740.   10032.
  PER Q=    100.0
   AREA=   1858.1
    VEL=      3.0
  DEPTH=      6.5

*SECNO 22.794
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   SECNO    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .51

   22.794     7.85  1418.55      .00      .00  1418.97      .42      .75      .09  1417.80
    5500.       1.    5395.     104.       2.    1029.      42.     814.     173.   1416.10
     1.05      .87     5.24     2.47     .045     .045     .045     .000  1410.70  9978.95
  .002603     460.     628.     500.        2        0        0      .00   215.74 10194.69


FLOW DISTRIBUTION FOR SECNO=     22.79          CWSEL=   1418.55

STA=    9979.    9983.   10169.   10189.   10195.
  PER Q=       .0     98.1      1.8       .1
   AREA=      1.5   1029.4     38.1      3.9
    VEL=       .9      5.2      2.6      1.3
  DEPTH=       .4      5.5      1.9       .7

*SECNO 22.880
   22.880     7.05  1420.05      .00      .00  1420.62      .58     1.60      .05  1426.40
    5500.       0.    5500.       0.       0.     902.       0.     825.     175.   1424.20
     1.07      .00     6.10      .00     .000     .045     .000     .000  1413.00  9952.13
  .005065     440.     454.     480.        2        0        0      .00   211.78 10163.91


FLOW DISTRIBUTION FOR SECNO=     22.88          CWSEL=   1420.05

STA=    9952.   10167.
  PER Q=    100.0
   AREA=    901.9
    VEL=      6.1
  DEPTH=      4.3

*SECNO 22.990
   22.990     5.73  1423.63      .00      .00  1424.26      .62     3.62      .01  1425.40
    5500.       0.    5500.       0.       0.     870.       0.     836.     178.   1427.90
     1.10      .00     6.32      .00     .000     .045     .000     .000  1417.90  9754.06
  .007840     480.     581.     530.        3        0        0      .00   272.08 10026.14


FLOW DISTRIBUTION FOR SECNO=     22.99          CWSEL=   1423.63
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   SECNO    DEPTH    CWSEL    CRIWS    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   IOC      ICONT    CORAR    TOPWID     ENDST


STA=    9754.   10034.
  PER Q=    100.0
   AREA=    869.8
    VEL=      6.3
  DEPTH=      3.2

*SECNO 23.097

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   23.097     4.79  1429.89  1429.89      .00  1431.46     1.57     6.49      .28  1432.30
    5500.      39.    5461.       0.      13.     542.       0.     846.     181.   1430.80
     1.11     2.89    10.08      .00     .045     .045     .000     .000  1425.10  9899.14
  .018369     640.     565.     490.       10       11        0      .00   186.86 10117.43


FLOW DISTRIBUTION FOR SECNO=     23.10          CWSEL=   1429.89

STA=    9899.    9916.    9925.    9927.   10121.
  PER Q=       .4       .3       .0     99.3
   AREA=      8.3      4.8       .2    541.7
    VEL=      2.9      3.0      1.2     10.1
  DEPTH=       .5       .5       .1      3.4

*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.09

   23.168     4.15  1433.05      .00      .00  1433.22      .17     1.62      .14  1429.50
    5500.     764.    4435.     301.     311.    1270.     143.     855.     185.   1430.30
     1.15     2.46     3.49     2.10     .045     .045     .045     .000  1428.90  9604.29
  .001925     330.     375.     300.        5        0        0      .00   609.23 10213.52
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     23.17         CWSEL=   1433.05

STA=    9604.    9657.    9718.    9777.   10116.   10176.   10214.
  PER Q=       .6      4.1      9.2     80.6      5.0       .5
   AREA=     33.0    106.8    171.1   1269.5    120.0     23.5
    VEL=      1.1      2.1      2.9      3.5      2.3      1.1
  DEPTH=       .6      1.8      2.9      3.7      2.0       .6

*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   23.253     9.33  1434.53  1434.53      .00  1437.36     2.83     1.55      .80  1437.50
    3400.       0.    3400.       0.       0.     252.       0.     866.     188.   1444.20
     1.16      .00    13.49      .00     .000     .040     .000     .000  1425.20  9978.44
  .014919     470.     459.     450.       20       17        0      .00    44.74 10023.18


FLOW DISTRIBUTION FOR SECNO=     23.25         CWSEL=   1434.53

STA=    9978.   10038.
  PER Q=    100.0
   AREA=    252.0
    VEL=     13.5
  DEPTH=      5.6

*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS

   23.334     7.79  1440.39      .00      .00  1441.83     1.43     4.33      .14  1443.80
    3400.       0.    3400.       0.       0.     354.       0.     869.     189.   1449.80
     1.17      .00     9.61      .00     .000     .040     .000     .000  1432.60  9969.06
  .007640     400.     417.     420.        2        0        0      .00    66.92 10035.98


FLOW DISTRIBUTION FOR SECNO=     23.33         CWSEL=   1440.39
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   SECNO    DEPTH    CWSEL    CRIWS    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


STA=    9969.   10055.
  PER Q=    100.0
   AREA=    353.7
    VEL=      9.6
  DEPTH=      5.3

*SECNO 23.416
   23.416     7.32  1443.82      .00      .00  1445.60     1.77     3.67      .10  1447.80
    3400.       0.    3400.       0.       0.     318.       0.     872.     189.   1450.20
     1.18      .00    10.68      .00     .000     .040     .000     .000  1436.50  9980.93
  .009442     400.     433.     430.        3        0        0      .00    59.14 10040.07


FLOW DISTRIBUTION FOR SECNO=     23.42         CWSEL=   1443.82

STA=    9981.   10053.
  PER Q=    100.0
   AREA=    318.3
    VEL=     10.7
  DEPTH=      5.4

*SECNO 23.514
   23.514     8.51  1448.11      .00      .00  1449.46     1.35     3.82      .04  1451.40
    3400.       0.    3400.       0.       0.     365.       0.     876.     190.   1451.10
     1.19      .00     9.32      .00     .000     .040     .000     .000  1439.60  9977.54
  .005937     560.     517.     470.        2        0        0      .00    57.47 10035.01


FLOW DISTRIBUTION FOR SECNO=     23.51         CWSEL=   1448.11

STA=    9978.   10039.
  PER Q=    100.0
   AREA=    364.8
    VEL=      9.3
  DEPTH=      6.3

*SECNO 23.544

3301 HV CHANGED MORE THAN HVINS
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SECNO	DEPTH	CWSEL	CRIWS	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
23.544	7.51	1448.91	.00	.00	1450.79	1.88	1.17	.16	1453.20
3400.	0.	3400.	0.	0.	309.	0.	877.	190.	1452.90
1.20	.00	10.99	.00	.000	.040	.000	.000	1441.40	9978.90
.009552	190.	158.	150.	2	0	0	.00	54.80	10033.70

FLOW DISTRIBUTION FOR SECNO= 23.54 CWSEL= 1448.91

STA= 9979. 10039.
PER Q= 100.0
AREA= 309.4
VEL= 11.0
DEPTH= 5.6

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	2.48	3.20	.00	5.70	1.00	14.10	.00	1442.00	1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.95

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3688.08	1453.59	2.80	3249.	152.	14.	14.	1445.00	1449.00	140.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.555	10.64	1452.64	.00	.00	1453.37	.74	2.58	.00	1453.80
3400.	0.	3400.	0.	0.	494.	0.	878.	190.	1453.50
1.20	.00	6.89	.00	.000	.040	.000	.000	1442.00	9974.59
.002505	60.	60.	60.	2	0	8	.00	63.27	10037.86

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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     23.56         CWSEL=   1452.64

STA=    9975.   10039.
  PER Q=    100.0
   AREA=    493.8
    VEL=      6.9
  DEPTH=      7.8

*SECNO 23.591
3280 CROSS SECTION     23.59 EXTENDED      1.15 FEET


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1480.00 ELREA=      1480.00

   23.591     8.95  1453.15      .00      .00  1453.93      .78      .54      .01  1452.90
    3400.       0.    3400.       0.       0.     478.       0.     880.     191.   1453.80
     1.21      .00     7.11      .00     .000     .040     .000     .000  1444.20  9968.00
  .003292     100.     190.     210.        3        0        0      .00    75.49 10043.49


FLOW DISTRIBUTION FOR SECNO=     23.59         CWSEL=   1453.15

STA=    9968.   10045.
  PER Q=    100.0
   AREA=    478.5
    VEL=      7.1
  DEPTH=      6.3

*SECNO 23.691

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1480.00 ELREA=      1480.00

   23.691     8.75  1455.15      .00      .00  1456.48     1.33     2.39      .16  1457.60
    3400.       0.    3400.       0.       0.     368.       0.     885.     191.   1455.30
     1.22      .00     9.24      .00     .000     .040     .000     .000  1446.40  9970.39
  .006585     510.     528.     540.        2        0        0      .00    65.33 10035.72
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     23.69         CWSEL=   1455.15

STA=    9970.   10036.
  PER Q=    100.0
   AREA=    367.9
    VEL=      9.2
  DEPTH=      5.6

*SECNO 23.815

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.50


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1480.00 ELREA=      1480.00

   23.815     9.31  1459.01      .00      .00  1460.09     1.08     3.59      .02  1458.90
    4350.       0.    4350.       0.       0.     521.       0.     892.     193.   1457.80
     1.25      .00     8.35      .00     .000     .040     .000     .000  1449.70  9951.00
  .004797     650.     655.     680.        3        0        0      .00    86.00 10037.00


FLOW DISTRIBUTION FOR SECNO=     23.82         CWSEL=   1459.01

STA=    9951.   10037.
  PER Q=    100.0
   AREA=    520.9
    VEL=      8.4
  DEPTH=      6.1

*SECNO 23.912
3280 CROSS SECTION     23.91 EXTENDED       .14 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1480.00 ELREA=      1480.00

   23.912    13.14  1461.04      .00      .00  1462.18     1.14     2.07      .02  1461.30
    5300.       0.    5300.       0.       0.     619.       0.     898.     193.   1460.90
     1.26      .00     8.56      .00     .000     .040     .000     .000  1447.90  9967.41
  .00355B     480.     512.     510.        3        0        0      .00    75.59 10043.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     23.91         CWSEL=   1461.04

STA=    9967.   10043.
  PER Q=    100.0
   AREA=    619.1
    VEL=      8.6
  DEPTH=      8.2

*SECNO 23.989

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41

   23.989    12.91  1462.61      .00      .00  1463.23      .63     1.00      .05  1465.60
    5300.       0.    5300.       0.       0.     835.       0.     905.     194.   1465.80
     1.28      .00     6.35      .00     .000     .040     .000     .000  1449.70  9944.77
  .001801     400.     407.     410.        2        0        0      .00    98.91 10043.68


FLOW DISTRIBUTION FOR SECNO=     23.99         CWSEL=   1462.61

STA=    9945.   10049.
  PER Q=    100.0
   AREA=    835.0
    VEL=      6.3
  DEPTH=      8.4

CCHV=      .300 CEHV=      .500
*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1463.70 ELREA=      1463.70

   24.086     9.84  1463.44      .00      .00  1464.31      .87      .95      .12  1453.60
    5300.       0.    5300.       0.       0.     708.       0.     914.     195.   1453.60
     1.30      .00     7.48      .00     .000     .040     .000     .000  1453.60  9972.00
  .001924     450.     512.     560.        4        0        0      .00    72.00 10044.00
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


FLOW DISTRIBUTION FOR SECNO=     24.09         CWSEL=   1463.44


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     .90      1.56      3.00    100.00     71.60      3.00    590.00      .00   1453.60   1453.60

*SECNO 24.096
PRESSURE FLOW


 EGPRS      EGLWC      H3       QWEIR      QPR       BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                              AREA
   1465.39   1464.37      .08        0.     5300.      590.      590.     1462.20   1466.70        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1466.00 ELREA=     1466.00

   24.096    11.11  1464.71      .00      .00  1465.39      .68     1.09      .00  1453.60
    5300.       0.    5300.       0.       0.     800.       0.     915.     195.   1453.60
     1.30      .00     6.62      .00     .000     .040     .000     .000  1453.60  9972.00
  .001280      56.      56.      56.        2        0        0      .00    72.00 10044.00


FLOW DISTRIBUTION FOR SECNO=     24.10         CWSEL=   1464.71

*SECNO 24.106
   24.106    11.01  1465.21      .00      .00  1465.55      .34      .05      .10  1464.10
    5300.       1.    4878.     421.       1.    1012.     185.     916.     196.   1458.50
     1.30      .80     4.82     2.28     .035     .040     .050     .000  1454.20  9952.58
  .000889      80.      53.      20.        2        0        0      .00   166.78 10119.36


FLOW DISTRIBUTION FOR SECNO=     24.11         CWSEL=   1465.21

STA=    9953.    9955.   10064.   10091.   10108.   10119.
  PER Q=       .0     92.0      6.6      1.2       .1
   AREA=      1.3   1012.1    135.4     41.1      8.6
    VEL=       .8      4.8      2.6      1.6       .7
  DEPTH=       .6      9.3      5.0      2.4       .8
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   SECNO    DEPTH    CWSEL    CRIWS    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


CCHV=     .100 CEHV=     .300
*SECNO 24.195

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.49

   24.195    12.09  1465.69      .00      .00  1465.84      .15      .27      .02  1470.40
    5300.       0.    5300.       0.       0.    1707.       0.     932.     197.   1466.40
     1.35      .00     3.11      .00     .000     .040     .000     .000  1453.60  9941.09
  .000402     470.     470.     460.        2        0        0      .00   196.58 10137.67


FLOW DISTRIBUTION FOR SECNO=     24.19          CWSEL=   1465.69

STA=    9941.   10142.
  PER Q=    100.0
   AREA=   1706.8
    VEL=      3.1
  DEPTH=      8.7

*SECNO 24.322

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.22

   24.322    14.31  1465.91      .00      .00  1465.95      .04      .10      .01  1463.50
    5300.       6.    4200.    1093.      15.    2371.    1071.     971.     202.   1456.80
     1.46      .43     1.77     1.02     .035     .040     .050     .000  1451.60  9858.94
  .000081     640.     671.     630.        2        0        0      .00   366.31 10225.25


FLOW DISTRIBUTION FOR SECNO=     24.32          CWSEL=   1465.91

STA=    9859.    9871.   10064.   10134.   10177.   10220.   10225.
  PER Q=       .1     79.3     12.9      5.9      1.8       .0
   AREA=     14.5   2371.1    606.3    312.3    151.0      1.9
    VEL=       .4      1.8      1.1      1.0       .6       .1
  DEPTH=      1.2     12.3      8.7      7.3      3.5       .4

*SECNO 24.444

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .33
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


   24.444     8.65  1465.95      .00      .00  1466.10      .15      .12      .03  1465.00
    5300.       0.    4211.    1088.       1.    1325.     405.    1009.     206.   1461.70
     1.52      .49     3.18     2.69     .045     .045     .045     .000  1457.30  9926.47
  .000727     640.     644.     600.        2        0        0      .00   277.67 10204.13


FLOW DISTRIBUTION FOR SECNO=     24.44          CWSEL=   1465.95

STA=    9926.    9928.   10122.   10142.   10166.   10180.   10204.
  PER Q=       .0     79.5      6.0      8.3      4.0      2.3
   AREA=       .7   1324.9    113.1    147.7     76.4     68.2
    VEL=       .5      3.2      2.8      3.0      2.8      1.7
  DEPTH=       .5      6.8      5.7      6.2      5.5      2.8

*SECNO 24.542

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .28

   24.542     6.53  1466.33      .00      .00  1467.25      .92      .91      .23  1464.00
    5300.      26.    5274.       0.       8.     684.       0.    1023.     209.   1467.80
     1.54     3.33     7.71      .00     .045     .045     .000     .000  1459.80  9907.26
  .008955     470.     517.     530.        2        0        0      .00   181.23 10181.31


FLOW DISTRIBUTION FOR SECNO=     24.54          CWSEL=   1466.33

STA=    9907.    9914.   10187.
  PER Q=       .5     99.5
   AREA=      7.8    684.1
    VEL=      3.3      7.7
  DEPTH=      1.2      3.9

*SECNO 24.635
   24.635     5.25  1472.05  1471.83      .00  1473.32     1.28     5.97      .11  1474.50
    5300.       0.    5300.       0.       0.     584.       0.    1031.     211.   1472.40
     1.55      .00     9.07      .00     .000     .045     .000     .000  1466.80  9911.01
  .017410     650.     491.     220.       12       15        0      .00   194.18 10105.18
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     24.64         CWSEL=   1472.05

STA=    9911.   10111.
  PER Q=    100.0
   AREA=    584.2
    VEL=      9.1
  DEPTH=      3.0

*SECNO 24.738

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.23

   24.738     4.89  1476.89      .00      .00  1477.18      .29     3.76      .10  1481.20
    5200.       0.    1399.    3801.       0.     323.     873.    1043.     215.   1480.90
     1.59      .00     4.33     4.35     .000     .045     .045     .000  1472.00  9936.06
  .003356     350.     544.     630.        4        0        0      .00   355.18 10340.68


FLOW DISTRIBUTION FOR SECNO=     24.74         CWSEL=   1476.89

STA=    9936.   10038.   10088.   10127.   10224.   10291.   10330.   10341.
  PER Q=     26.9       .6     10.4     33.5     19.3      8.4       .9
   AREA=    323.2     12.1    128.1    372.1    230.2    112.5     17.5
    VEL=      4.3      2.5      4.2      4.7      4.4      3.9      2.6
  DEPTH=      3.4       .2      3.3      3.8      3.4      2.9      1.6

*SECNO 24.838

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   24.838     5.63  1480.33  1480.33      .00  1480.92      .60     3.02      .09  1483.80
    5200.       0.    1244.    3956.       0.     141.     778.    1054.     220.   1483.50
     1.61      .00     8.85     5.09     .000     .045     .045     .000  1474.70  9968.35
  .016849     470.     528.     450.        1       12        0      .00   650.49 10633.62
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     24.84         CWSEL=   1480.33

STA=    9968.   10019.   10066.   10111.   10162.   10185.   10219.   10270.   10365.   10450.   10630.   10634.
  PER Q=     23.9      3.3      4.2      6.7      3.0      4.5      6.7     12.5     11.2     23.7       .1
   AREA=    140.6     39.1     48.4     67.6     30.5     45.1     67.6    125.9    112.7    238.6      2.4
    VEL=      8.8      4.4      4.5      5.2      5.2      5.2      5.2      5.2      5.2      5.2      3.1
  DEPTH=      3.1       .8      1.1      1.3      1.3      1.3      1.3      1.3      1.3      1.3       .7

*SECNO 24.943

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.83

   24.943     5.74  1483.44      .00      .00  1483.57      .12     2.60      .05  1481.80
    5200.     851.     498.    3850.     351.     133.    1408.    1072.     230.  1484.80
     1.67     2.43     3.76     2.73     .045     .045     .045     .000  1477.70  9801.22
  .002110     530.     554.     570.        7        0        0      .00   799.36 10618.77


FLOW DISTRIBUTION FOR SECNO=     24.94         CWSEL=   1483.44

STA=    9801.    9813.    9926.    9945.    9983.   10017.   10044.   10080.   10540.   10610.   10619.
  PER Q=       .3     12.7      1.6      1.8      9.6       .5      4.7     59.5      9.1       .3
   AREA=     10.3    253.6     36.0     51.1    132.5     13.8     88.0   1124.5    171.1     10.7
    VEL=      1.4      2.6      2.3      1.8      3.8      1.7      2.8      2.8      2.8      1.7
  DEPTH=       .9      2.2      1.9      1.3      4.2       .5      2.4      2.4      2.4      1.2

*SECNO 25.048

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   25.048     3.57  1487.27  1487.27      .00  1487.98      .71     2.60      .18  1486.60
    5200.    1445.     645.    3110.     284.      84.     430.    1089.     238.  1493.60
     1.69     5.10     7.66     7.23     .045     .045     .045     .000  1483.70  9705.76
  .020608     580.     554.     520.       20       14        0      .00   557.24 10481.24
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     25.05         CWSEL=   1487.27

STA=    9706.    9817.    9941.    9966.   10017.   10154.   10223.   10247.   10450.   10470.   10481.
  PER Q=      8.8     16.9      2.2     12.4     18.7     10.0     12.0      3.8     13.1      2.3
   AREA=    101.7    157.6     24.3     84.2    157.2     91.1     66.4     31.9     65.4     18.4
    VEL=      4.5      5.6      4.6      7.7      6.2      5.7      9.4      6.1     10.4      6.4
  DEPTH=       .9      1.3      1.0      2.1      1.1      1.3      2.8       .2      3.3      1.6

*SECNO 25.163

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.21

   25.163     6.19  1492.19      .00      .00  1492.51      .31     4.49      .04  1491.60
    4900.     205.    1144.    3551.      74.     219.     823.    1102.     244.  1493.10
     1.73     2.79     5.23     4.31     .045     .045     .045     .000  1486.00  9922.08
  .003749     640.     607.     580.        5        0        0      .00   369.01 10297.84


FLOW DISTRIBUTION FOR SECNO=     25.16         CWSEL=   1492.19

STA=    9922.    9947.    9965.    9972.   10025.   10044.   10088.   10147.   10220.   10291.   10298.
  PER Q=      1.0      2.6       .5     23.3      1.3     12.6     16.9     20.9     20.3       .6
   AREA=     24.8     38.6     10.1    218.9     23.6    140.5    188.4    233.1    226.7     10.9
    VEL=      2.0      3.4      2.5      5.2      2.7      4.4      4.4      4.4      4.4      2.6
  DEPTH=      1.0      2.1      1.4      4.3      1.2      3.2      3.2      3.2      3.2      1.6

*SECNO 25.262
3280 CROSS SECTION     25.26 EXTENDED       .01 FEET


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1491.60 ELREA=     1510.00

   25.262    10.01  1494.01      .00      .00  1494.20      .19     1.68      .01  1491.60
    4900.    4119.     781.       0.    1187.     220.       0.    1117.     250.  1496.80
     1.77     3.47     3.54      .00     .045     .045     .000     .000  1484.00  9501.71
  .002847     470.     523.     570.        5        0        0      .00   521.78 10023.49
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     25.26         CWSEL=   1494.01

STA=    9502.    9513.    9547.    9618.    9646.    9689.    9707.    9823.    9948.   10030.
  PER Q=      1.4     12.9     14.3      3.6      4.5      1.1     18.7     27.4     15.9
   AREA=     24.9    139.8    199.6     60.5     82.2     24.5    285.5    370.1    220.4
    VEL=      2.8      4.5      3.5      2.9      2.7      2.2      3.2      3.6      3.5
  DEPTH=      2.2      4.1      2.8      2.2      1.9      1.4      2.5      3.0      2.9

*SECNO 25.374
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   25.374     6.07  1499.37  1499.37      .00  1499.62      .26     1.89      .02  1499.30
    4900.    3795.    1105.       0.     981.     238.       0.    1137.     256.  1498.80
     1.81     3.87     4.64     2.06     .045     .045     .045     .000  1493.30  9655.94
  .002869     680.     591.     300.       20       20        0      .00   367.07 10023.00


FLOW DISTRIBUTION FOR SECNO=     25.37         CWSEL=   1499.37

STA=    9656.    9659.    9704.    9838.    9920.    9933.    9944.    9950.    9955.    9963.    9969.   10023.
  PER Q=       .0      6.3     39.3     22.9      3.4      1.8       .5       .9      2.0       .3     22.5
   AREA=      1.8    101.9    471.1    280.1     42.4     27.1      9.4     13.3     25.7      8.2    238.1
    VEL=      1.2      3.0      4.1      4.0      3.9      3.2      2.4      3.2      3.8      2.1      4.6
  DEPTH=       .6      2.3      3.5      3.4      3.3      2.5      1.6      2.7      3.2      1.4      4.4

*SECNO 25.434

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1504.90 ELREA=     1504.00

   25.434     8.17  1503.97  1503.97      .00  1506.92     2.95     1.79      .81  1504.90
    4900.       0.    4900.       0.       0.     355.       0.    1143.     258.  1504.00
     1.82      .00    13.78      .00     .000     .035     .000     .000  1495.80  9970.53
  .011721     400.     317.     190.       20       14        0      .00    65.40 10035.93
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


FLOW DISTRIBUTION FOR SECNO=     25.43         CWSEL=   1503.97

STA=    9971.   10036.
  PER Q=    100.0
   AREA=    355.5
    VEL=     13.8
  DEPTH=      5.4

*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.25

   25.500    10.04  1507.74      .00      .00  1508.08      .34      .91      .26  1511.50
    4900.       0.    4900.       0.       0.    1044.       0.    1149.     259.   1509.00
     1.84      .00     4.69      .00     .000     .035     .000     .000  1497.70  9923.52
  .001109     250.     349.     420.        2        0        0      .00   170.83 10094.35


FLOW DISTRIBUTION FOR SECNO=     25.50         CWSEL=   1507.74

STA=    9924.   10105.
  PER Q=    100.0
   AREA=   1043.7
    VEL=      4.7
  DEPTH=      6.1

CCHV=     .300 CEHV=     .500
*SECNO 25.523

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.83

   25.523    11.99  1507.99      .00      .00  1508.19      .20      .07      .04  1498.00
    4900.     472.    3501.     927.     230.     885.     338.    1152.     260.   1498.00
     1.85     2.06     3.95     2.74     .050     .035     .035     .000  1496.00  9930.02
  .000331     120.     121.     120.        2        0        0      .00   161.62 10091.63
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     25.52         CWSEL=   1507.99

STA=    9930.    9950.    9963.   10037.   10050.   10092.
  PER Q=      3.0      6.7     71.5      9.5      9.4
   AREA=     99.8    129.9    885.4    129.9    208.0
    VEL=      1.5      2.5      4.0      3.6      2.2
  DEPTH=      5.0     10.0     12.0     10.0      5.0

*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   25.534     5.21  1510.75  1510.75      .00  1513.36     2.61      .04     1.20  1515.00
    4900.       0.    4900.       0.       0.     378.       0.    1153.     260.   1515.00
     1.85      .00    12.96      .00     .000     .015     .000     .000  1505.54  9963.45
  .002246      58.      58.      58.       20       14        0      .00    73.10 10036.55


FLOW DISTRIBUTION FOR SECNO=     25.53         CWSEL=   1510.75

STA=    9963.   10037.
  PER Q=    100.0
   AREA=    378.2
    VEL=     13.0
  DEPTH=      5.2

*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
   25.551     6.67  1512.21  1510.75      .00  1513.80     1.58      .13      .31  1515.00
    4900.       0.    4900.       0.       0.     485.       0.    1154.     260.   1515.00
     1.85      .00    10.10      .00     .000     .015     .000     .000  1505.54  9963.29
  .001025      90.      90.      90.       25        5        0      .00    73.41 10036.71
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     25.55         CWSEL=   1512.21

STA=    9963.   10037.
  PER Q=    100.0
   AREA=    485.2
    VEL=     10.1
  DEPTH=      6.6

*SECNO 25.557
   25.557     6.54  1512.08      .00      .00  1514.01     1.93      .04      .18  1515.00
    4900.       0.    4900.       0.       0.     439.       0.    1155.     260.   1515.00
     1.86      .00    11.16      .00     .000     .015     .000     .000  1505.54  9959.87
  .001385      32.      32.      32.        2        0        0      .00    80.27 10040.13


FLOW DISTRIBUTION FOR SECNO=     25.56         CWSEL=   1512.08

STA=    9960.   10046.
  PER Q=    100.0
   AREA=    439.0
    VEL=     11.2
  DEPTH=      5.5

*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS

   25.561     8.76  1514.36      .00      .00  1514.55      .19      .02      .52  1514.90
    2900.       0.    2900.       0.       0.     825.       0.    1155.     260.   1515.20
     1.86      .00     3.51      .00     .000     .035     .000     .000  1505.60  9949.33
  .000529      20.      21.      20.        3        0        0      .00   117.68 10067.02


FLOW DISTRIBUTION FOR SECNO=     25.56         CWSEL=   1514.36

STA=    9949.   10069.
  PER Q=    100.0
   AREA=    825.4
    VEL=      3.5
  DEPTH=      7.0
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   SECNO    DEPTH    CWSEL    CRIWS    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


CCHV=     .100 CEHV=     .300
*SECNO 25.680

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.43

   25.680     8.24  1514.74      .00      .00  1514.78      .04      .21      .02  1514.40
    2700.     297.  • 1319.    1084.     333.     760.     734.    1174.     266.   1511.20
     1.97      .89     1.74     1.48     .035     .035     .035     .000  1506.50  9471.45
  .000225     580.     628.     660.        2        0        0      .00   663.75 10305.23


FLOW DISTRIBUTION FOR SECNO=     25.68          CWSEL=   1514.74

STA=    9471.    9688.    9796.    9927.   10093.   10167.   10278.   10295.   10305.
  PER Q=      3.0      6.6      1.4     48.9     10.6     21.6      6.6      1.4
   AREA=     82.4    169.5     81.1    759.6    217.7    393.2     91.7     30.9
    VEL=      1.0      1.0       .5      1.7      1.3      1.5      2.0      1.2
  DEPTH=       .4      1.6       .6      4.6      2.9      3.5      5.4      3.0

*SECNO 25.786

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1518.90 ELREA=     1515.80

   25.786     5.62  1516.32  1516.32      .00  1516.97      .64      .32      .18  1518.90
    2500.       0.     1868.     632.       0.     258.     212.    1188.     272.   1515.80
     1.99      .00     7.24     2.98     .000     .035     .035     .000  1510.70  9982.01
  .005773     600.     560.     470.       20       18        0      .00   351.98 10442.86
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     25.79         CWSEL=   1516.32

STA=    9982.   10056.   10189.   10273.   10418.   10435.   10440.   10443.
  PER Q=     74.7     11.2      3.6      2.1      5.7      2.4       .4
   AREA=   258.0    102.9     43.0     22.1     30.2     11.1      3.0
    VEL=     7.2      2.7      2.1      2.3      4.7      5.5      2.9
  DEPTH=     3.5       .8       .5       .2      1.8      2.2      1.1

*SECNO 25.947
   25.947     6.67  1521.07      .00      .00  1521.63      .56     4.65      .01  1522.70
    2300.       0.    1967.     333.       0.     315.      81.    1197.     277.   1520.60
     2.03      .00     6.24     4.13     .000     .035     .035     .000  1514.40  9958.72
  .005225     870.     850.     830.        2        0        0      .00   164.54 10123.26


FLOW DISTRIBUTION FOR SECNO=     25.95         CWSEL=   1521.07

STA=    9959.   10066.   10107.   10113.   10119.   10123.
  PER Q=     85.5      6.7      3.2      3.9       .7
   AREA=   315.1     46.3     14.0     15.5      4.9
    VEL=     6.2      3.3      5.3      5.8      3.1
  DEPTH=     2.9      1.1      2.3      2.6      1.1

*SECNO 26.058
   26.058     7.29  1523.49      .00      .00  1523.98      .49     2.35      .01  1522.00
    2200.     621.    1579.       0.     178.     252.       0.    1202.     279.   1524.00
     2.06     3.49     6.27      .00     .035     .035     .000     .000  1516.20  9841.26
  .003212     540.     586.     570.        2        0        0      .00   182.03 10023.28


FLOW DISTRIBUTION FOR SECNO=     26.06         CWSEL=   1523.49

STA=    9841.    9904.    9927.    9951.    9966.   10024.
  PER Q=      4.3      7.2     11.6      5.1     71.8
   AREA=     46.6     43.3     58.4     29.8    251.8
    VEL=      2.0      3.7      4.4      3.8      6.3
  DEPTH=       .7      1.9      2.4      2.0      4.4

*SECNO 26.152
   26.152     4.99  1524.99      .00      .00  1525.46      .46     1.47      .00  1525.40
    2000.       0.    2000.       0.       0.     367.       0.    1206.     280.   1526.00
     2.09      .00     5.45      .00     .000     .035     .000     .000  1520.00  9958.10
  .003182     240.     496.     550.        2        0        0      .00   105.87 10063.97
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=     26.15         CWSEL=   1524.99

STA=    9958.   10069.
  PER Q=    100.0
   AREA=    366.7
    VEL=      5.5
  DEPTH=      3.5

*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   26.265     6.15  1528.15  1528.15      .00  1529.39     1.24     3.01      .23  1531.70
    1900.       0.    1758.     142.       0.     191.      39.    1210.     282.   1526.50
     2.11      .00     9.23     3.64     .000     .035     .035     .000  1522.00  9972.98
  .009530     580.     597.     610.        5       11        0      .00   103.26 10076.25


FLOW DISTRIBUTION FOR SECNO=     26.26         CWSEL=   1528.15

STA=    9973.   10029.   10076.
  PER Q=     92.5      7.5
   AREA=    190.6     38.9
    VEL=      9.2      3.6
  DEPTH=      3.4       .8

*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96

   26.372     7.55  1531.35      .00      .00  1531.67      .32     2.19      .09  1531.60
    1700.       0.    1700.       0.       0.     372.       0.    1214.     283.   1533.80
     2.14      .00     4.57      .00     .000     .035     .000     .000  1523.80  9967.15
  .001979     600.     565.     510.        3        0        0      .00    97.17 10064.32
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   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


FLOW DISTRIBUTION FOR SECNO=     26.37         CWSEL=   1531.35

STA=    9967.   10080.
  PER Q=    100.0
   AREA=    372.2
    VEL=      4.6
  DEPTH=      3.8

*SECNO 26.492

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.99

   26.492     6.45  1532.15      .00      .00  1532.22      .08      .53      .02  1537.50
    1600.       0.    1600.       0.       0.     721.       0.    1222.     285.   1536.00
     2.22      .00     2.22      .00     .000     .035     .000     .000  1525.70  9885.25
  .000442     640.     634.     610.        3        0        0      .00   183.14 10068.38


FLOW DISTRIBUTION FOR SECNO=     26.49         CWSEL=   1532.15

STA=    9885.   10084.
  PER Q=    100.0
   AREA=    720.9
    VEL=      2.2
  DEPTH=      3.9

*SECNO 26.582

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  6.37

   26.582     8.14  1532.24      .00      .00  1532.24      .00      .01      .01  1528.20
    1300.     595.     479.     226.    1980.    1036.     774.    1246.     290.   1527.20
     2.59      .30      .46      .29     .040     .030     .040     .000  1524.10  9470.61
  .000007     460.     475.     480.        2        0        0      .00   718.47 10189.08


FLOW DISTRIBUTION FOR SECNO=     26.58         CWSEL=   1532.24
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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    CDRAR    TOPWID    ENDST


STA=    9471.    9539.    9568.    9602.    9655.    9691.    9725.    9752.    9786.    9845.    9869.   10028.   10086.
  PER Q=     6.7      5.0      4.9      6.6      4.4      4.0      3.2      3.7      5.3      2.0     36.9      7.5
   AREA=   281.5    186.8    198.6    282.5    188.7    174.8    140.2    168.0    258.0    100.6   1035.9    315.7
    VEL=      .3       .3       .3       .3       .3       .3       .3       .3       .3       .3       .5       .3
  DEPTH=     4.1      6.4      5.8      5.3      5.2      5.1      5.2      4.9      4.4      4.2      6.5      5.4

STA=   10086.   10123.   10157.   10189.
  PER Q=     4.7      3.8      1.4
   AREA=   199.5    170.6     87.9
    VEL=      .3       .3       .2
  DEPTH=     5.4      5.0      2.7

*SECNO 26.673

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1535.00 ELREA=     1533.20

   26.673     2.18  1533.98  1533.98      .00  1534.51      .53      .01      .16  1534.30
    1300.       0.    1095.     205.       0.     174.      74.    1269.     295.  1533.20
     2.61      .00     6.28     2.77     .000     .030     .040     .000  1531.80  9957.84
 .009696     510.     480.     460.       20       14        0      .00   239.18 10280.56


FLOW DISTRIBUTION FOR SECNO=    26.67         CWSEL=   1533.98

STA=    9958.   10077.   10105.   10120.   10205.   10237.   10265.   10281.
  PER Q=    84.2      5.2       .9       .0      3.6      5.2       .9
   AREA=   174.3     21.8      5.8       .3     18.5     21.8      6.1
    VEL=     6.3      3.1      1.9      1.2      2.5      3.1      1.9
  DEPTH=     1.5       .8       .4       .0       .6       .8       .4

*SECNO 26.784
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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SECNO	DEPTH	CWSEL	CRIWS	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

3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

26.784	3.48	1546.18	1546.18	.00	1547.20	1.02	5.95	.15	1551.20
1100.	0.	1100.	0.	0.	136.	0.	1272.	297.	1551.50
2.63	.00	8.10	.00	.000	.030	.000	.000	1542.70	9980.90
.010938	590.	586.	530.	20	14	0	.00	68.01	10048.91

FLOW DISTRIBUTION FOR SECNO= 26.78 CWSEL= 1546.18

STA=	9981.	10080.
PER Q=	100.0	
AREA=	135.8	
VEL=	8.1	
DEPTH=	2.0	

*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 42.71

26.883	7.21	1547.31	.00	.00	1547.31	.00	.01	.10	1544.70
1000.	1.	936.	63.	10.	2370.	292.	1288.	300.	1542.80
3.02	.10	.40	.21	.040	.030	.040	.000	1540.10	9765.39
.000005	530.	523.	500.	2	0	0	.00	434.21	10199.60

FLOW DISTRIBUTION FOR SECNO= 26.88 CWSEL= 1547.31

STA=	9765.	9773.	10122.	10148.	10166.	10179.	10194.	10200.
PER Q=	.1	93.6	2.7	2.0	1.1	.4	.0	
AREA=	9.9	2370.0	119.8	85.6	52.1	31.6	2.8	
VEL=	.1	.4	.2	.2	.2	.1	.1	
DEPTH=	1.3	6.8	4.6	4.8	4.0	2.1	.5	

*SECNO 26.984

3265 DIVIDED FLOW

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   SECNO    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .52

   26.984     6.81  1547.31      .00      .00  1547.32      .00      .00      .00  1545.50
     900.       1.     764.     135.      10.    1283.     394.    1314.     305.   1546.50
     3.27      .13      .60      .34     .040     .030     .040     .000  1540.50  9932.30
  .000015     480.     533.     460.        2        0        0      .00   371.10 10336.41


FLOW DISTRIBUTION FOR SECNO=     26.98         CWSEL=   1547.31

STA=    9932.    9943.   10170.   10256.   10271.   10290.   10323.   10336.
  PER Q=       .1     84.9      3.2      3.2      3.7      4.2       .7
   AREA=      9.7   1283.2     94.9     71.5     86.1    115.2     26.1
    VEL=       .1       .6       .3       .4       .4       .3       .2
  DEPTH=       .9      5.7      1.1      4.8      4.5      3.5      1.9

*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=      1562.60

   27.060     5.36  1559.46  1559.46      .00  1561.02     1.56      .02      .47  1560.80
     900.       0.     900.       0.       0.      90.       0.    1323.     307.   1562.60
     3.28      .00    10.02      .00     .000     .030     .000     .000  1554.10  9983.67
  .010153     270.     401.     470.       20       15        0      .00    29.47 10013.14


FLOW DISTRIBUTION FOR SECNO=     27.06         CWSEL=   1559.46

STA=    9984.   10019.
  PER Q=    100.0
   AREA=     89.8
    VEL=     10.0
  DEPTH=      3.0
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.65


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1565.00 ELREA=     1565.00

   27.166     6.98  1562.18      .00      .00  1562.35      .17     1.19      .14  1564.20
     600.       0.     600.       0.       0.     181.       0.    1325.     307.   1563.90
     3.33      .00     3.31      .00     .000     .030     .000     .000  1555.20  9981.04
  .000644     560.     560.     560.        3        0        0      .00    38.99 10020.03


FLOW DISTRIBUTION FOR SECNO=     27.17         CWSEL=   1562.18

STA=    9981.   10023.
  PER Q=    100.0
   AREA=    181.4
    VEL=      3.3
  DEPTH=      4.7

*SECNO 27.294
   27.294     6.54  1562.54      .00      .00  1562.59      .05      .23      .01  1565.20
     400.       0.     400.       0.       0.     233.       0.    1328.     308.   1564.60
     3.44      .00     1.72      .00     .000     .030     .000     .000  1556.00  9972.01
  .000167     710.     676.     630.        3        0        0      .00    50.20 10022.21


FLOW DISTRIBUTION FOR SECNO=     27.29         CWSEL=   1562.54

STA=    9972.   10027.
  PER Q=    100.0
   AREA=    232.9
    VEL=      1.7
  DEPTH=      4.6

CCHV=     .100 CEHV=     .300
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO -19.560
START TRIB COMP
    -19.560    19.560  1328.212
  -19.560    12.61  1328.21      .00      .00  1330.15     1.93      .00      .00  1329.70
   14600.       0.   14600.       0.       0.    1308.       0.    1341.     310.   1330.60
     3.45      .00    11.16      .00     .000     .035     .000     .000  1315.60  9931.37
  .003382     730.     729.     720.        0        0        0      .00   129.62 10060.99


FLOW DISTRIBUTION FOR SECNO=    -19.56         CWSEL=   1328.21

STA=    9931.   10065.
  PER Q=    100.0
   AREA=   1307.9
    VEL=     11.2
  DEPTH=     10.1

*SECNO  .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .029     9.75  1329.35  1329.35      .00  1332.60     3.24     1.11      .39  1329.50
    9500.       0.    9478.      22.       0.     655.      17.    1350.     311.   1328.20
     3.46      .00    14.47     1.25     .000     .015     .035     .000  1319.60  9942.56
  .001821     380.     430.     450.       20       15        0      .00   130.50 10073.06


FLOW DISTRIBUTION FOR SECNO=       .03         CWSEL=   1329.35

STA=    9943.   10043.   10073.
  PER Q=     99.8       .2
   AREA=    654.9     17.3
    VEL=     14.5      1.3
  DEPTH=      6.5       .6

*SECNO  .112
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   SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

     .112    11.44  1332.94      .00      .00  1333.44      .50      .57      .27  1332.10
    9500.     100.    9400.       0.      88.    1654.       0.    1364.     313.   1334.80
     3.49     1.14     5.68      .00     .035     .030     .000     .000  1321.50  9762.30
  .000828     430.     483.     450.        3        0        0      .00   330.25 10092.55


FLOW DISTRIBUTION FOR SECNO=       .11         CWSEL=   1332.94

STA=    9762.    9804.    9816.    9863.    9887.   10101.
  PER Q=       .0       .1       .6       .3     98.9
   AREA=      7.1      7.7     49.0     23.8   1654.0
    VEL=       .4       .9      1.3      1.2      5.7
  DEPTH=       .2       .6      1.0      1.0      8.0

*SECNO  .198
     .198     9.51  1333.31      .00      .00  1333.94      .63      .46      .04  1332.40
    9500.      14.    9486.       0.      16.    1493.       0.    1381.     316.   1337.80
     3.51      .89     6.35      .00     .035     .030     .000     .000  1323.80  9860.87
  .001241     460.     454.     420.        2        0        0      .00   249.57 10110.44


FLOW DISTRIBUTION FOR SECNO=       .20         CWSEL=   1333.31

STA=    9861.    9897.   10133.
  PER Q=       .1     99.9
   AREA=     15.6   1493.4
    VEL=       .9      6.4
  DEPTH=       .4      7.0

*SECNO  .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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   SECNO    DEPTH    CWSEL    CRIWS    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


     .288     7.61  1333.31  1333.31      .00  1335.83     2.52     1.21      .57  1336.00
    9500.       0.    9500.       0.       0.     746.       0.    1393.     319.   1335.90
     3.52      .00    12.74      .00     .000     .030     .000     .000  1325.70  9903.19
  .007920     470.     475.     460.        3       15        0      .00   150.75 10053.94


FLOW DISTRIBUTION FOR SECNO=       .29         CWSEL=   1333.31

STA=    9903.   10069.
  PER Q=    100.0
   AREA=    745.7
    VEL=     12.7
  DEPTH=      4.9

*SECNO  .398

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.79

     .398     8.47  1337.27      .00      .00  1338.35     1.08     2.37      .14  1338.90
    9500.       0.    9500.       0.       0.    1139.       0.    1406.     321.   1340.60
     3.54      .00     8.34      .00     .000     .030     .000     .000  1328.80  9912.48
  .002485     600.     581.     540.        2        0        0      .00   181.83 10094.30


FLOW DISTRIBUTION FOR SECNO=       .40         CWSEL=   1337.27

STA=    9912.   10119.
  PER Q=    100.0
   AREA=   1138.7
    VEL=      8.3
  DEPTH=      6.3

*SECNO  .482
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .482    11.15  1342.35  1342.35      .00  1343.41     1.05     1.00      .00  1341.10
    9500.      79.    6887.    2534.      36.     722.     942.    1418.     325.   1338.00
     3.55     2.17     9.54     2.69     .035     .030     .035     .000  1331.20  9903.83
  .002295     440.     444.     270.       20       12        0      .00   889.74 10793.57
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   SECNO    DEPTH    CWSEL    CRIWS    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


FLOW DISTRIBUTION FOR SECNO=       .48         CWSEL=   1342.35

STA=    9904.    9937.   10024.   10093.   10236.   10315.   10402.   10528.   10794.
  PER Q=       .8     72.5      9.0      4.9      3.6      3.1      3.4      2.6
   AREA=     36.4    722.3    203.8    189.3    124.7    117.7    145.3    161.1
    VEL=      2.2      9.5      4.2      2.5      2.8      2.5      2.2      1.6
  DEPTH=      1.1      8.3      3.0      1.3      1.6      1.4      1.2       .6

*SECNO  .575
     .575    12.32  1343.82      .00      .00  1344.53      .71     1.09      .03  1340.20
    9500.     727.    7778.     994.     211.    1057.     451.    1438.     334.   1343.10
     3.57     3.44     7.36     2.20     .035     .030     .035     .000  1331.50  9777.80
  .002143     460.     491.     500.        3        0        0      .00   730.21 10508.02


FLOW DISTRIBUTION FOR SECNO=       .57         CWSEL=   1343.82

STA=    9778.    9869.   10049.   10105.   10113.   10186.   10239.   10274.   10411.   10508.
  PER Q=      7.7     81.9      1.2       .1       .7      2.1      2.1      4.0       .3
   AREA=    211.3   1057.4     57.1      6.6     45.3     77.9     67.2    167.2     30.1
    VEL=      3.4      7.4      2.0      1.7      1.4      2.5      3.0      2.2       .9
  DEPTH=      2.3      5.9      1.0       .8       .6      1.5      1.9      1.2       .3

*SECNO  .697
     .697    11.06  1345.06      .00      .00  1346.10     1.04     1.47      .10  1346.40
    9400.       0.    9013.     387.       0.    1082.     114.    1459.     341.   1341.40
     3.59      .00     8.33     3.40     .000     .030     .035     .000  1334.00  9856.01
  .002432     640.     644.     640.        2        0        0      .00   237.20 10093.21


FLOW DISTRIBUTION FOR SECNO=       .70         CWSEL=   1345.06

STA=    9856.   10023.   10061.   10093.
  PER Q=     95.9      3.8       .3
   AREA=   1081.8     93.4     20.2
    VEL=      8.3      3.8      1.5
  DEPTH=      6.5      2.5       .6

*SECNO  .826
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SECNO	DEPTH	CWSEL	CRIWS	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

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.826	9.49	1348.29	1348.29	.00	1350.53	2.23	2.75	.36	1345.50
9400.	729.	8671.	0.	130.	701.	0.	1475.	344.	1349.50
3.61	5.63	12.38	.00	.035	.035	.000	.000	1338.80	9845.35
.007973	680.	681.	660.	20	15	0	.00	199.85	10045.20

FLOW DISTRIBUTION FOR SECNO= .83 CWSEL= 1348.29

STA=	9845.	9893.	9929.	10050.
PER Q=	1.8	6.0	92.2	
AREA=	45.1	84.4	700.6	
VEL=	3.7	6.7	12.4	
DEPTH=	.9	2.3	6.0	

*SECNO .945

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.23

.945	11.72	1352.12	.00	.00	1352.63	.52	1.93	.17	1348.60
9400.	1059.	7814.	526.	364.	1260.	223.	1494.	350.	1349.50
3.64	2.91	6.20	2.36	.035	.035	.035	.000	1340.40	9624.18
.001604	680.	628.	600.	3	0	0	.00	561.70	10185.88

FLOW DISTRIBUTION FOR SECNO= .94 CWSEL= 1352.12

STA=	9624.	9674.	9704.	9769.	9819.	9843.	9856.	10034.	10046.	10100.	10186.
PER Q=	.0	.1	2.9	4.8	2.0	1.5	83.1	.9	3.1	1.6	
AREA=	7.9	9.5	111.6	135.8	59.2	39.9	1260.4	27.8	108.9	86.6	
VEL=	.5	.8	2.4	3.3	3.1	3.6	6.2	3.0	2.7	1.7	
DEPTH=	.2	.3	1.7	2.7	2.5	3.1	7.1	2.3	2.0	1.0	

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   SECNO    DEPTH    CWSEL    CRIWS    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   IOC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1.035
    1.035    11.03  1352.93      .00      .00  1353.65      .72      .96      .06  1350.80
    9400.    1060.    7956.     385.     284.    1103.     117.    1512.     355.   1348.80
     3.68     3.73     7.21     3.30     .035     .035     .035     .000  1341.90  9686.18
  .002658     440.     475.     460.        3        0        0      .00   460.77 10146.95


FLOW DISTRIBUTION FOR SECNO=      1.03         CWSEL=   1352.93

STA=    9686.    9723.    9776.    9795.    9823.    9832.    9841.   10022.   10046.   10059.   10100.   10147.
  PER Q=      1.2      2.5       .3      3.3      2.5      1.5     84.6      3.3       .3       .3       .1
   AREA=     44.8     81.2     14.8     73.7     39.9     30.0   1102.8     70.4     14.1     19.7     12.5
    VEL=      2.5      2.9      1.9      4.2      5.9      4.8      7.2      4.5      2.3      1.3       .9
  DEPTH=      1.2      1.5       .8      2.6      4.4      3.3      6.1      2.9      1.1       .5       .3

*SECNO 1.121
    1.121    10.56  1354.16      .00      .00  1354.96      .80     1.29      .02  1355.00
    9400.       0.    9396.       4.       0.    1310.       5.    1527.     359.   1353.60
     3.68      .00     7.17      .82     .000     .040     .040     .000  1343.60  9871.67
  .003028     480.     454.     440.        2        0        0      .00   235.28 10106.95


FLOW DISTRIBUTION FOR SECNO=      1.12         CWSEL=   1354.16

STA=    9872.   10069.   10082.   10107.
  PER Q=    100.0       .0       .0
   AREA=   1310.2      4.1       .8
    VEL=      7.2       .9       .2
  DEPTH=      6.6       .3       .0

*SECNO 1.204

3265 DIVIDED FLOW

3280 CROSS SECTION      1.20 EXTENDED       .02 FEET


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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   SECNO    DEPTH    CWSEL    CRIWS    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


    1.204    11.12  1355.42  1355.42      .00  1357.51     2.09     2.02      .39  1355.60
    9400.       0.    8391.    1009.       0.     689.     215.    1538.     361.   1352.50
     3.69      .03    12.18     4.70     .040     .040     .040     .000  1344.30  9930.00
  .007829     430.     438.     450.        2        9        0      .00   226.07 10173.36


FLOW DISTRIBUTION FOR SECNO=      1.20         CWSEL=   1355.42

STA=    9930.   10043.   10057.   10072.   10098.   10165.   10173.
  PER Q=     89.3      1.9      1.2      2.5      5.0       .1
   AREA=    689.1     31.8     25.1     47.4    105.3      5.1
    VEL=     12.2      5.7      4.6      4.9      4.4      2.4
  DEPTH=      7.4      2.3      1.7      1.8      1.6       .6

*SECNO 1.315

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.29

    1.315    10.53  1359.33      .00      .00  1359.72      .39     2.04      .17  1359.70
    9100.       0.    6944.    2156.       0.    1301.     569.    1561.     366.   1359.00
     3.73      .00     5.34     3.79     .000     .040     .040     .000  1348.80  9904.63
  .001396     720.     734.     700.        3        0        0      .00   332.04 10236.67


FLOW DISTRIBUTION FOR SECNO=      1.32         CWSEL=   1359.33

STA=    9905.   10074.   10085.   10091.   10130.   10150.   10170.   10230.   10237.
  PER Q=     76.3       .1       .2      1.0      3.4      8.4     10.5       .1
   AREA=   1301.1     10.3      8.6     52.0     86.7    146.7    260.0      4.4
    VEL=      5.3      1.3      1.8      1.7      3.6      5.2      3.7      1.0
  DEPTH=      7.7       .9      1.4      1.3      4.3      7.3      4.3       .7

*SECNO 1.420
 WATER EL=X5 CARD=   1361.000

3265 DIVIDED FLOW

    1.420     7.00  1361.00      .00      .00  1361.67      .67      .59      .08  1358.00
    8400.    4309.    2458.    1634.     793.     260.     518.    1577.     372.   1358.00
     3.75     5.44     9.46     3.16     .020     .020     .020     .000  1354.00  9555.00
  .001550     380.     407.     420.        0        0        0      .00   970.00 10785.00
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SECNO	DEPTH	CWSEL	CRIWS	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

FLOW DISTRIBUTION FOR SECNO= 1.42 CWSEL= 1361.00

STA=	9555.	9745.	9760.	9790.	9810.	9930.	9970.	10010.	10060.	10195.	10315.	10420.	10785.
PER Q=	8.6	5.2	14.6	3.2	13.3	6.4	29.3	5.5	4.7	4.2	3.7	1.4	
AREA=	192.5	60.0	150.0	50.1	240.0	100.0	259.8	100.0	135.0	120.0	105.0	57.5	
VEL=	3.7	7.3	8.2	5.3	4.6	5.4	9.5	4.6	2.9	2.9	2.9	2.0	
DEPTH=	1.0	4.0	5.0	2.5	2.0	2.5	6.5	2.0	1.0	1.0	1.0	.2	

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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH        FLOODWAY       J.MISCHLER

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3.                                                          1284.69

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15.                -1.
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       GLOSS   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


 *PROF 2
0

 CCHV=     .100 CEHV=     .300
 *SECNO 17.588
  2800 NAT Q1=    5622.52  WSEL=    1283.69  ENC Q1=    5622.52  WSEL=    1284.69  RATIO=    .0000
  NAT Q1=    6698.  RATIOS LOB, CH, ROB=    .2409   .7347   .0244  WSEL=    1284.69

 3470 ENCROACHMENT STATIONS=     9855.2   10193.0  TYPE=      4  TARGET=         .161
    17.588    15.09  1284.69      .00  1283.69  1285.08      .39      .00      .00  1278.10
    15400.    1965.   13435.       0.     647.    2549.       0.       0.       0.   1276.40
       .00     3.04     5.27      .00     .040     .040     .000     .000  1269.60  9855.24
   .000784     440.     496.     560.        0        0        0      .00   337.76 10193.00


 *SECNO 17.662

 3301 HV CHANGED MORE THAN HVINS


 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54


 3470 ENCROACHMENT STATIONS=     9900.0   10150.0  TYPE=      1  TARGET=      250.000
    17.662    13.21  1284.81      .00  1283.82  1285.77      .96      .51      .17  1276.40
    15400.    2238.   13039.     123.     319.    1629.      41.      23.       3.   1281.60
       .01     7.02     8.01     2.99     .040     .040     .040     .000  1271.60  9900.00
   .002664     380.     391.     400.        2        0        0      .00   250.00 10150.00


 *SECNO 17.783
  2800 NAT Q1=    1848.70  WSEL=    1285.58  ENC Q1=    2096.47  WSEL=    1286.58  RATIO=   -.1340
  NAT Q1=    2292.  RATIOS LOB, CH, ROB=    .0251   .9148   .0601  WSEL=    1286.58

 3301 HV CHANGED MORE THAN HVINS


 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .64


 3470 ENCROACHMENT STATIONS=     9921.0   10064.0  TYPE=      4  TARGET=         .085
    17.783    10.97  1286.37      .00  1285.58  1288.65     2.28     2.49      .40  1280.50
    15400.       0.   15400.       0.       0.    1271.       0.      47.       5.   1281.10
       .03      .00    12.11      .00     .000     .040     .000     .000  1275.40  9921.00
   .006431     540.     639.     500.        2        0        0      .00   143.00 10064.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 17.932
 2800 NAT Q1=    1583.93  WSEL=    1290.98  ENC Q1=    1874.27  WSEL=    1291.98  RATIO=   -.1833
 NAT Q1=    1919.  RATIOS LOB, CH, ROB=    .0153   .9768   .0079  WSEL=    1291.98

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9956.0   10066.0  TYPE=      4  TARGET=         .023
   17.932    13.50  1291.40      .00  1290.98  1294.76     3.36     5.79      .32  1289.70
   15400.       0.   15400.       0.       0.    1047.       0.      68.       8.   1290.20
      .04      .00    14.71      .00     .000     .040     .000     .000  1277.90  9956.00
  .008490     790.     787.     780.        2        0        0      .00   110.00 10066.00


CCHV=     .300 CEHV=     .500
*SECNO 18.042
 2800 NAT Q1=    2422.94  WSEL=    1294.31  ENC Q1=    2802.31  WSEL=    1295.31  RATIO=   -.1566
 NAT Q1=    2802.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1295.31

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48


3470 ENCROACHMENT STATIONS=     9951.0   10049.0  TYPE=      4  TARGET=         .000
   18.042    12.13  1294.43      .00  1294.31  1298.17     3.74     3.22      .19  1357.40
   15400.       0.   15400.       0.       0.     992.       0.      81.       9.   1307.40
      .05      .00    15.52      .00     .000     .025     .000     .000  1282.30  9951.60
  .003893     620.     581.     550.        2        0        0      .00    96.78 10048.38



SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00       .00     75.00      4.00   1059.00       .81   1280.20   1279.90

*SECNO 18.061
BTCARD  BRIDGE STENCL=    9951.00   STENCR=   10049.00
 2800 NAT Q1=    2933.00  WSEL=    1296.44  ENC Q1=    3334.23  WSEL=    1297.44  RATIO=   -.1368
 NAT Q1=    3334.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1297.44

3301 HV CHANGED MORE THAN HVINS
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   SECNO    DEPTH    CWSEL    CRIWS    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


PRESSURE FLOW


 EGPRS      EGLWC      H3       QWEIR      QPR       BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                              AREA
   1299.55   1299.06     1.10        0.    15400.     1059.     1060.     1293.20   1301.60        0.



3470 ENCROACHMENT STATIONS=     9951.0   10049.0  TYPE=      4  TARGET=         .000
   18.061    13.59  1296.69      .00  1296.44  1299.55     2.86     1.38      .00  1358.20
   15400.       0.   15400.       0.       0.    1134.       0.      84.       9.   1308.20
      .06      .00    13.58      .00     .000     .025     .000     .000  1283.10  9951.53
  .002582     101.     101.     101.        3        0        0      .00    96.91 10048.45


*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96


3470 ENCROACHMENT STATIONS=     9900.0   10085.0  TYPE=      1  TARGET=      185.000
   18.081    18.51  1299.61      .00  1299.54  1300.32      .71      .13      .65  1286.60
   15400.    1221.   12608.    1571.     308.    1745.     358.      88.      10.   1284.90
      .06     3.96     7.22     4.39     .035     .035     .035     .000  1281.10  9900.00
  .000671      80.     106.     130.        3        0        0      .00   185.00 10085.00


CCHV=     .100 CEHV=     .300
*SECNO 18.174

3470 ENCROACHMENT STATIONS=     9857.0   10125.0  TYPE=      1  TARGET=      268.000
   18.174    18.48  1300.18      .00  1300.22  1300.63      .45      .28      .03  1288.70
   15400.    1800.   13116.     484.     473.    2324.     213.     119.      12.   1294.60
      .09     3.81     5.64     2.27     .035     .035     .035     .000  1281.70  9857.02
  .000485     500.     491.     490.        2        0        0      .00   267.98 10125.00


*SECNO 18.269
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   SECNO    DEPTH    CWSEL    CRIWS    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


3470 ENCROACHMENT STATIONS=     9882.2   10110.0  TYPE=      1  TARGET=      227.800
   18.269    16.50  1300.30      .00  1300.17  1301.04      .74      .32      .09  1288.40
   15400.    2281.   12415.     704.     453.    1692.     205.     149.      15.   1292.40
      .11     5.04     7.34     3.43     .035     .035     .035     .000  1283.80  9882.20
  .000870     500.     502.     500.        2        0        0      .00   227.80 10110.00


*SECNO 18.362

3470 ENCROACHMENT STATIONS=     9895.6   10107.8  TYPE=      1  TARGET=      212.200
   18.362    15.34  1300.64      .00  1300.54  1301.60      .95      .50      .06  1290.00
   15400.    1170.   13188.    1042.     245.    1597.     244.     175.      18.   1290.60
      .12     4.78     8.26     4.27     .035     .035     .035     .000  1285.30  9895.60
  .001186     490.     491.     510.        1        0        0      .00   212.20 10107.80


*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9885.0   10140.0  TYPE=      1  TARGET=      255.000
   18.445    17.86  1305.16  1305.16  1305.39  1307.61     2.45      .96      .45  1290.00
   15400.    5162.    3904.    6334.     546.     215.     613.     192.      20.   1290.00
      .13     9.46    18.19    10.34     .035     .035     .035     .000  1287.30  9886.69
  .004873     470.     440.     460.       20        8        0      .00   253.31 10140.00


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      2.34      3.00       .00      6.11      1.00     33.20       .00   1287.70   1287.40

*SECNO 18.456
BTCARD  BRIDGE STENCL=    9885.00   STENCR=   10140.00

3301 HV CHANGED MORE THAN HVINS
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SECNO	DEPTH	CWSEL	CRIWS	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

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.71

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9123.16	1308.91	1.29	15061.	350.	33.	33.	1294.20	1299.50	255.

3470 ENCROACHMENT STATIONS= 9885.0 10140.0 TYPE= 1 TARGET= 255.000

18.455	20.48	1308.18	.00	1307.31	1309.20	1.02	1.58	.00	1290.40
15400.	5652.	2923.	6825.	825.	249.	966.	195.	20.	1290.40
.14	6.85	11.75	7.07	.035	.035	.035	.000	1287.70	9885.00
.001673	60.	60.	60.	3	0	7	.00	255.00	10140.00

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.13

3470 ENCROACHMENT STATIONS= 9881.4 10169.8 TYPE= 1 TARGET= 288.399

18.545	19.88	1309.18	.00	1308.28	1309.57	.40	.32	.06	1294.10
15400.	1872.	10973.	2555.	557.	1953.	782.	223.	23.	1293.80
.13	3.36	5.62	3.27	.035	.035	.035	.000	1289.30	9881.40
.000367	440.	466.	480.	2	0	0	.00	288.40	10169.80

*SECNO 18.575

3470 ENCROACHMENT STATIONS= 9880.7 10170.8 TYPE= 1 TARGET= 290.100

18.575	19.99	1309.29	.00	1308.43	1309.64	.35	.06	.01	1291.50
15400.	3672.	3055.	8673.	912.	535.	1879.	235.	24.	1289.70
.17	4.03	5.71	4.62	.035	.035	.035	.000	1289.30	9880.70
.000356	160.	160.	160.	2	0	0	.00	290.10	10170.80

SECNO	DEPTH	CWSEL	CRIWS	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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
BTCARD BRIDGE STENCL= 9876.10 STENCR= 10177.20
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3108.92	1309.71	.07	15075.	340.	57.	56.	1295.40	1299.00	290.

3470 ENCROACHMENT STATIONS= 9876.1 10177.2 TYPE= 1 TARGET= 301.101

18.583	20.45	1309.85	.00	1309.50	1310.17	.32	.53	.00	1291.60
15400.	3718.	3008.	8673.	958.	548.	1963.	238.	25.	1289.80
.17	3.88	5.49	4.42	.035	.035	.035	.000	1289.40	9876.10
.000319	40.	40.	40.	2	0	8	.00	301.10	10177.20

*SECNO 18.640

3470 ENCROACHMENT STATIONS= 9879.6 10134.7 TYPE= 1 TARGET= 255.101

18.640	19.58	1309.78	.00	1309.43	1310.38	.60	.13	.08	1294.60
15400.	2399.	9723.	3279.	539.	1379.	747.	260.	27.	1293.40
.19	4.45	7.05	4.39	.035	.035	.035	.000	1290.20	9879.60
.000604	300.	301.	310.	2	0	0	.00	255.10	10134.70

*SECNO 18.734

3470 ENCROACHMENT STATIONS= 9883.2 10111.7 TYPE= 1 TARGET= 228.500

18.734	17.61	1310.01	.00	1309.68	1310.80	.79	.36	.06	1298.60
15400.	1374.	13375.	651.	322.	1789.	191.	288.	29.	1300.80
.21	4.27	7.48	3.40	.035	.035	.035	.000	1292.40	9883.20
.000896	490.	496.	500.	0	0	0	.00	228.50	10111.70

*SECNO 18.832

3470 ENCROACHMENT STATIONS= 9891.8 10107.0 TYPE= 1 TARGET= 215.200

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   SECNO     DEPTH     CWSEL     CRIWS     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


   18.832    17.27   1310.47      .00   1310.19   1311.28      .81       .47       .01   1302.80
   15400.     473.    12868.    2058.     148.     1690.     415.      315.       32.    1297.10
      .23     3.19      7.61     4.96     .035      .035     .035      .000   1293.20   9891.80
  .000922     480.      517.     540.        2         0        0       .00    215.20  10107.00


*SECNO 18.925

3470 ENCROACHMENT STATIONS=     9887.7   10087.5  TYPE=      1  TARGET=      199.800
   18.925    16.28   1310.88      .00   1310.64   1311.80      .92       .49       .03   1297.60
   15400.    1755.    12704.     942.      361.     1550.     220.      340.       34.    1300.00
      .25     4.86      8.20     4.29     .035      .035     .035      .000   1294.60   9887.70
  .001068     480.      491.     500.        2         0        0       .00    199.80  10087.50


*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .63


3470 ENCROACHMENT STATIONS=     9866.3   10038.5  TYPE=      1  TARGET=      172.200
   19.019    13.51   1311.11      .00   1310.89   1312.82     1.72       .78       .24   1305.10
   15400.     530.    14836.      34.      115.     1390.      12.      360.       36.    1308.40
      .26     4.63     10.67     2.71     .035      .035     .035      .000   1297.60   9866.30
  .002667     460.      491.     520.        2         0        0       .00    172.20  10038.50


*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9942.1   10061.9  TYPE=      1  TARGET=      119.801
   19.117    14.09   1312.69   1312.69   1312.49   1316.84     4.15      2.03       .73   1302.90
   15400.    1459.    11824.    2118.     155.      663.     205.      376.       38.    1301.50
      .27     9.42     17.83    10.31     .035      .035     .035      .000   1298.60   9942.10
  .006160     490.      523.     560.       20         8        0       .00    119.80  10061.90
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       QLOSS   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


*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.54


3470 ENCROACHMENT STATIONS=     9923.1   10081.0  TYPE=      1  TARGET=      157.900
   19.210    16.89  1317.09      .00  1317.19  1318.95     1.85     1.88      .23  1312.00
   15400.     219.   14970.     210.      55.    1353.      53.     390.      40.   1312.00
      .28     3.97    11.06     3.97     .035     .035     .035     .000  1300.20  9923.34
  .002612     500.     491.     490.        3        0        0      .00   157.47 10080.81


CCHV=     .300 CEHV=     .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1324.00 ELREA=      1324.00

   19.283     8.22  1319.92  1319.92  1319.92  1324.04     4.12     1.67     1.14  1311.70
   14600.       0.   14600.       0.       0.     896.       0.     400.      41.   1311.70
      .29      .00    16.30      .00     .000     .035     .000     .000  1311.70  9948.00
  .008882     390.     386.     390.       20       11        0      .00   109.00 10057.00


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1318.71 , NOT    1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     .90      1.56      3.00       .00    109.00      4.50   1304.00       .00   1311.70   1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.=    1320.16 BRIDGE VELOCITY=      16.51     CALCULATED CHANNEL AREA=       884.

 EGPRS      EGLWC      H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                             AREA
   1322.96   1324.65      .00        0.    14600.     1304.     1306.     1324.20   1326.50        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1325.00 ELREA=      1325.00

   19.299    10.36  1322.06      .00  1322.06  1324.65     2.60      .61      .00  1311.70
   14600.       0.   14600.       0.       0.    1129.       0.     402.      41.   1311.70
      .29      .00    12.94      .00     .000     .035     .000     .000  1311.70  9948.00
  .004112      86.      86.      86.        0        0        0      .00   109.00 10057.00


*SECNO 19.313
 2800 NAT Q1=    2287.58  WSEL=    1323.31  ENC Q1=    2700.20  WSEL=    1324.31  RATIO=   -.1804
 NAT Q1=    2700.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1324.31

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9932.0   10112.0  TYPE=      4  TARGET=         .000
   19.313    11.60  1323.30      .00  1323.31  1325.17     1.87      .30      .22  1327.90
   14600.       0.   14600.       0.       0.    1330.       0.     404.      41.   1325.50
      .29      .00    10.97      .00     .000     .035     .000     .000  1311.70  9944.35
  .004078      75.      74.      75.        4        0        0      .00   159.64 10103.99


CCHV=     .100 CEHV=     .300
*SECNO 19.418
 2800 NAT Q1=    2296.67  WSEL=    1325.59  ENC Q1=    2729.66  WSEL=    1326.59  RATIO=   -.1885
 NAT Q1=    2731.  RATIOS LOB, CH, ROB=    .0000   .9994   .0006  WSEL=    1326.59

3470 ENCROACHMENT STATIONS=     9948.0   10120.0  TYPE=      4  TARGET=         .001
   19.418    12.59  1325.59      .00  1325.59  1327.43     1.83     2.25      .00  1328.00
   14600.       0.   14600.       0.       0.    1343.       0.     421.      43.   1326.10
      .31      .00    10.87      .00     .000     .035     .000     .000  1313.00  9955.11
  .004041     570.     554.     530.        3        0        0      .00   162.69 10117.80
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 19.560
 2800 NAT Q1=    2508.10  WSEL=    1328.21  ENC Q1=    2890.11  WSEL=    1329.21  RATIO=   -.1523
 NAT Q1=    2890.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1329.21

3470 ENCROACHMENT STATIONS=     9929.0   10065.0  TYPE=     4  TARGET=        .000
   19.560    12.61  1328.21      .00  1328.21  1330.15     1.93     2.69      .03  1329.70
   14600.       0.   14600.       0.       0.    1308.       0.     443.      46.   1330.60
      .32      .00    11.16      .00     .000     .035     .000     .000  1315.60  9931.37
  .003382     730.     729.     720.        2        0        0      .00   129.63 10060.99


CCHV=     .300 CEHV=     .500
*SECNO 19.625
 2800 NAT Q1=    3892.33  WSEL=    1329.89  ENC Q1=    4433.23  WSEL=    1330.89  RATIO=   -.1390
 NAT Q1=    4433.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1330.89

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9965.0   10025.0  TYPE=     4  TARGET=        .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1332.00 ELREA=     1332.00

   19.625    12.35  1329.95      .00  1329.89  1330.87      .92      .42      .30  1317.60
    5700.       0.    5700.       0.       0.     741.       0.     452.      47.   1317.60
      .34      .00     7.69      .00     .000     .015     .000     .000  1317.60  9965.00
  .000271     580.     364.      70.        3        0        0      .00    60.00 10025.00



SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00    100.00     60.00      2.00    564.00       .00   1318.60   1317.60

*SECNO 19.691
 2800 NAT Q1=    4235.58  WSEL=    1331.53  ENC Q1=    4792.54  WSEL=    1332.53  RATIO=   -.1315
 NAT Q1=    4793.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1332.53
PRESSURE FLOW
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   SECNO    DEPTH    CWSEL    CRIWS    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


 EGPRS      EGLWC      H3       QWEIR      QPR       BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                              AREA
   1332.43   1331.10      .08        0.     5700.      564.      563.     1328.30   1334.80        0.


3470 ENCROACHMENT STATIONS=     9965.0   10025.0  TYPE=      4  TARGET=        .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1333.00 ELREA=      1333.00

   19.691    13.00  1331.60      .00  1331.53  1332.43      .83     1.56      .00  1318.60
    5700.       0.    5700.       0.       0.     780.       0.     458.      47.   1318.60
      .35      .00     7.30      .00     .000     .015     .000     .000  1318.60  9965.00
  .000231     330.     350.     430.        2        0        0      .00    60.00 10025.00


*SECNO 19.742

3470 ENCROACHMENT STATIONS=     9953.0   10038.0  TYPE=      1  TARGET=       85.000
   19.742    12.93  1332.03      .00  1331.99  1332.57      .54      .05      .09100000.00
    5700.       0.    5700.       0.       0.     969.       0.     463.      47. 100000.00
      .36      .00     5.88      .00     .000     .015     .000     .000  1319.10  9953.00
  .000167      80.     269.     470.        2        0        0      .00    85.00 10038.00


CCHV=     .100 CEHV=     .300
*SECNO 19.847

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .36


3470 ENCROACHMENT STATIONS=     9957.0   10043.0  TYPE=      1  TARGET=       86.000
   19.847    13.34  1332.14      .00  1332.14  1332.81      .67      .20      .04100000.00
    5700.       0.    5700.       0.       0.     868.       0.     475.      49. 100000.00
      .39      .00     6.56      .00     .000     .035     .000     .000  1318.80  9957.00
  .001291     570.     554.     520.        0        0        0      .00    86.00 10043.00


*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS
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SECND    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .37


3470 ENCROACHMENT STATIONS=     9958.0   10031.0  TYPE=      1  TARGET=       73.000
   19.960     7.83  1332.43      .00  1332.37  1335.03     2.60     1.64      .58  1330.00
    5700.       0.    5700.       0.       0.     441.       0.     484.      50. 100000.00
      .40      .00    12.94      .00     .000     .035     .000     .000  1324.60  9958.00
  .009425     640.     597.     560.        2        0        0      .00    73.00 10031.00


CCHV=     .300 CEHV=     .500
*SECND 19.974

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.49


3470 ENCROACHMENT STATIONS=     9969.0   10020.0  TYPE=      1  TARGET=       51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1336.00 ELREA=     1336.00

   19.974     9.87  1333.67      .00  1333.31  1335.66     1.99      .45      .18  1323.80
    5700.       0.    5700.       0.       0.     503.       0.     485.      50. 100000.00
      .40      .00    11.33      .00     .000     .035     .000     .000  1323.80  9969.00
  .004262     105.      74.      65.        3        0        0      .00    51.00 10020.00


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00       .00     51.00      3.00    480.00      .00   1324.10   1323.80

*SECND 19.986
BTCARD  BRIDGE STENCL=    9969.00   STENCR=   10020.00

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW
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   SECNO     DEPTH     CWSEL     CRIWS     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


 EGPRS      EGLWC      H3       QWEIR      QPR       BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                              AREA
   1337.08   1336.16      .79       0.     5700.      480.      480.     1334.10   1337.90       0.


3470 ENCROACHMENT STATIONS=     9969.0   10020.0  TYPE=      1  TARGET=       51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1337.00 ELREA=      1337.00

   19.986    11.92  1335.72      .00  1335.25  1337.08     1.37     1.42      .00  1323.80
    5700.       0.    5700.       0.       0.     608.       0.     486.      50. 100000.00
      .40      .00     9.38      .00     .000     .035     .000     .000  1323.80  9969.00
  .002370      61.      61.      61.        3        0        0      .00    51.00 10020.00


*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9975.0   10025.0  TYPE=      1  TARGET=       50.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1340.00 ELREA=    100000.00

   20.049    11.10  1338.20  1338.20  1338.35  1341.96     3.76     1.48     1.20100000.00
    5700.       0.    5700.       0.       0.     366.       0.     489.      50. 100000.00
      .41      .00    15.56      .00     .000     .035     .000     .000  1327.10  9975.00
  .011186     305.     333.     345.       20       11        0      .00    49.93 10024.93


CCHV=     .100 CEHV=     .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.73
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   SECNO    DEPTH    CWSEL    CRIWS    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


3470 ENCROACHMENT STATIONS=     9972.0   10029.0  TYPE=      1  TARGET=       57.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1344.00 ELREA=      1340.80

   20.144    12.48  1343.38      .00  1343.48  1345.17     1.79     3.01      .20100000.00
    5700.       0.    5671.      29.       0.     527.      10.     495.      51.   1340.80
      .42      .00    10.77     3.02     .000     .035     .040     .000  1330.90  9972.00
  .003733     490.     502.     500.        2        0        0      .00    57.00 10029.00


*SECNO 20.242

3470 ENCROACHMENT STATIONS=     9964.0   10035.0  TYPE=      1  TARGET=       71.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1348.00 ELREA=      1342.80

   20.242    12.21  1345.51      .00  1345.49  1347.16     1.65     1.98      .01100000.00
    5700.       0.    5645.      55.       0.     546.      16.     501.      52.   1342.80
      .44      .00    10.35     3.49     .000     .035     .040     .000  1333.30  9964.00
  .003905     470.     517.     560.        3        0        0      .00    71.00 10035.00


*SECNO 20.335

3470 ENCROACHMENT STATIONS=     9963.0   10036.0  TYPE=      1  TARGET=       73.000
   20.335    10.24  1347.54      .00  1347.44  1348.79     1.25     1.59      .04100000.00
    5700.       0.    5672.      28.       0.     630.      10.     508.      52.   1344.00
      .45      .00     9.00     2.76     .000     .035     .040     .000  1337.30  9963.00
  .002739     510.     491.     470.        2        0        0      .00    73.00 10036.00


CCHV=      .300 CEHV=      .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1351.50 ELREA=      1351.50

   20.347    10.22  1347.42      .00  1347.24  1349.28     1.86      .18      .30  1337.20
    5700.       0.    5700.       0.       0.     521.       0.     509.      53.   1337.20
      .45      .00    10.94      .00     .000     .035     .000     .000  1337.20  9970.00
  .002991       1.      63.     150.        2        0        0      .00    51.00 10021.00
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SECNO	DEPTH	CWSEL	CRIWS	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	IOC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1337.70	1337.20

*SECNO 20.366
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1349.79	1349.73	.68	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.98	1348.18	.00	1347.97	1349.79	1.61	.52	.00	1337.20
5700.	0.	5700.	0.	0.	560.	0.	510.	53.	1337.20
.45	.00	10.17	.00	.000	.035	.000	.000	1337.20	9970.00
.002352	100.	100.	100.	3	0	0	.00	51.00	10021.00

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9958.0 10072.0 TYPE= 1 TARGET= 114.000

20.423	11.71	1349.71	.00	1349.57	1350.61	.91	.61	.21	1345.00
5700.	107.	5251.	342.	40.	665.	91.	515.	53.	1344.30
.47	2.71	7.89	3.78	.040	.035	.040	.000	1338.00	9958.20
.001788	415.	301.	205.	3	0	0	.00	113.80	10072.00

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.97	1349.27	.00	1349.13	1351.22	1.95	.09	.52	1339.30
5700.	0.	5700.	0.	0.	509.	0.	515.	53.	1339.30
.47	.00	11.20	.00	.000	.035	.000	.000	1339.30	9985.00
.003242	1.	37.	65.	2	0	0	.00	51.00	10036.00

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   SECNO    DEPTH    CWSEL    CRIWS    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


SPECIAL BRIDGE

SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
     1.25     1.56     3.00   100.00    51.00     3.00   576.00      .00  1339.30  1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.=    1348.77 BRIDGE VELOCITY=     12.54    CALCULATED CHANNEL AREA=      455.

 EGPRS     EGLWC      H3       QWEIR     QLOW     BAREA   TRAPEZOID     ELLC     ELTRD    WEIRLN
                                                            AREA
   1351.64  1351.71     .75        0.    5700.     576.     576.    1351.30  1355.50       0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1353.50 ELREA=     1353.50

   20.444    10.72  1350.02     .00  1349.92  1351.71     1.69     .49     .00  1339.30
    5700.       0.    5700.      0.       0.     547.       0.    516.     53.  1339.30
      .47      .00    10.43     .00     .000     .035     .000    .000  1339.30  9985.00
  .002550      70.      70.     70.        0        0        0     .00    51.00 10036.00


*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9930.0   10069.0  TYPE=     1  TARGET=     139.000
   20.529     9.24  1352.24     .00  1352.25  1353.01      .77    1.02     .28  1350.20
    5700.      80.    5564.     56.      33.     784.      25.    523.     54.  1350.40
      .49     2.44     7.10    2.28     .040     .035     .040    .000  1343.00  9930.00
  .002052     545.     449.    375.        3        0        0     .00   139.00 10069.00


CCHV=     .100 CEHV=     .300
*SECNO 20.628

3470 ENCROACHMENT STATIONS=    9935.0   10065.0  TYPE=     1  TARGET=     130.000
   20.628    10.04  1353.34     .00  1353.31  1353.79      .45     .75     .03100000.00
    5700.       0.    5700.      0.       0.    1059.       0.    535.     56. 100000.00
      .51      .00     5.38     .00     .000     .035     .000    .000  1343.30  9935.00
  .001054     530.     523.    520.        2        0        0     .00   130.00 10065.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9962.0   10026.0  TYPE=      1  TARGET=       64.000
   20.725     8.74  1355.94  1355.94  1356.04  1359.12     3.18     1.26      .82100000.00
    5700.      0.    5700.      0.       0.     398.       0.     543.      57. 100000.00
      .52     .00    14.31     .00     .000     .035     .000     .000  1347.20  9962.00
  .011046     510.     512.     520.       20       15        0      .00    64.00 10026.00


CCHV=     .300 CEHV=     .500
*SECNO 20.737
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1363.00 ELREA=     1363.00

   20.737     7.30  1358.20  1358.20  1358.17  1361.84     3.64      .80      .23  1350.90
    5700.      0.    5700.      0.       0.     372.       0.     544.      57.   1350.90
      .52     .00    15.32     .00     .000     .035     .000     .000  1350.90  9968.00
  .009201     80.      80.      80.       20       11        0      .00    51.00 10019.00


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1356.93 , NOT    1358.20 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
    1.25      1.56      3.00    100.00     51.00      3.00    576.00       .00   1351.00   1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.58
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SECNO	DEPTH	CWSEL	CRIWS	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

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	1360.60	1362.70	2.11	.86	.00	1351.00
5700.	0.	5700.	0.	0.	490.	0.	545.	57.	1351.00
.53	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

*SECNO 20.819

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	1362.37	1364.78	2.41	1.92	.15	1356.50
5700.	0.	5700.	0.	0.	458.	0.	549.	58.	1356.50
.53	.00	12.45	.00	.000	.035	.000	.000	1356.50	9965.00
.008131	375.	365.	345.	3	0	0	.00	78.00	10043.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

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   SECNO    DEPTH    CWSEL    CRIWS    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


CLASS B LOW FLOW

3420 BRIDGE W.S.=    1362.64 BRIDGE VELOCITY=      13.54     CALCULATED CHANNEL AREA=      388.

 EGPRS      EGLWC      H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC     ELTRD     WEIRLN
                                                              AREA
   1364.20   1366.08      .00        0.     5700.      655.     592.     1365.40   1369.90        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1367.90 ELREA=      1367.90

   20.841     6.98  1364.38      .00  1364.38  1366.08     1.70     1.31      .00  1357.40
    5700.      0.    5700.       0.       0.     545.       0.     550.      58.   1357.40
      .54     .00    10.46      .00     .000     .035     .000     .000  1357.40  9965.00
  .004551     115.     115.     115.        0        0        0      .00    78.00 10043.00


*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.51


3470 ENCROACHMENT STATIONS=     9904.0   10060.0  TYPE=      1  TARGET=      156.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1365.30 ELREA=      1367.60

   20.860     9.64  1365.94      .00  1365.98  1366.67      .72      .29      .29  1365.30
    5700.      27.    5673.       0.      23.     829.       0.     551.      58. 100000.00
      .54     1.17     6.84      .00     .040     .035     .000     .000  1356.30  9904.00
  .002004      90.     100.     110.        3        0        0      .00   156.00 10060.00


CCHV=     .100 CEHV=     .300
*SECNO 20.942

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .65


3470 ENCROACHMENT STATIONS=     9860.0   10110.0  TYPE=      1  TARGET=      250.000
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SECNO    DEPTH    CWSEL    CRIWS    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


 20.942     7.63  1367.23      .00  1367.29  1367.96      .74     1.29      .00100000.00
  5700.       0.     4745.     955.       0.     658.     192.     560.      60.   1366.50
    .56     .00     7.21     4.97     .000     .035     .035     .000  1359.60  9860.00
.004787     530.     433.     490.        2        0        0      .00   250.00 10110.00


*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9810.0   10060.0  TYPE=      1  TARGET=      250.000
 21.036     7.98  1371.48  1371.48  1371.95  1373.10     1.62     2.89      .26  1370.70
  5700.     112.     5546.      42.      53.     536.      19.     568.      63.   1370.40
    .57     2.13     10.35     2.14     .040     .035     .040     .000  1363.50  9810.00
.007272     490.     496.     490.        4        8        0      .00   250.00 10060.00


*SECNO 21.127

3470 ENCROACHMENT STATIONS=     9900.0   10060.0  TYPE=      1  TARGET=      160.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1374.00 ELREA=    100000.00

 21.127     7.93  1374.63  1374.23  1374.75  1376.44     1.81     3.28      .06  1374.20
  5700.     130.     5570.       0.      54.     511.       0.     575.      65. 100000.00
    .59     2.42     10.91      .00     .040     .035     .000     .000  1366.70  9900.00
.006491     400.     480.     500.        4        8        0      .00   160.00 10060.00


*SECNO 21.230

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9900.0   10125.0  TYPE=      1  TARGET=      225.000
 21.230     8.37  1380.37  1380.37  1380.36  1381.88     1.52     3.89      .03  1379.30
  5700.     251.     4277.    1172.      72.     392.     189.     582.      68.   1380.60
    .60     3.49     10.91     6.21     .040     .035     .040     .000  1372.00  9900.00
.008046     560.     544.     500.        2        8        0      .00   221.77 10125.00
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   SECNO    DEPTH    CWSEL    CRIWS    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   IOC      ICONT    CORAR    TOPWID     ENDST

*SECNO 21.363
3280 CROSS SECTION     21.36 EXTENDED       .59 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.26

3470 ENCROACHMENT STATIONS=     9930.0   10130.0  TYPE=      1  TARGET=      200.000
   21.363     9.48  1383.58      .00  1383.37  1384.11      .53     2.12      .10100000.00
    5700.       0.    5684.      16.       0.     973.      13.     595.      71.   1382.10
      .63      .00     5.84     1.21     .000     .035     .040     .000  1374.10  9939.05
  .001572     740.     702.     700.        3        0        0      .00   166.44 10105.49

*SECNO 21.484

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9852.0   10077.0  TYPE=      1  TARGET=      225.000
   21.484     8.59  1387.09  1387.09  1386.53  1388.54     1.45     1.90      .28  1386.90
    5700.     967.    4675.      58.     170.     452.      25.     607.      74.   1386.50
      .65     5.70    10.34     2.30     .040     .035     .040     .000  1378.50  9852.00
  .007569     650.     639.     520.       20       10        0      .00   215.51 10077.00

*SECNO 21.576

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41
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   SECNO     DEPTH     CWSEL     CRIWS     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


3470 ENCROACHMENT STATIONS=     9940.0   10165.0  TYPE=      1  TARGET=      225.000
   21.576     8.08  1390.18      .00  1389.24  1391.06      .88     2.46      .06  1390.00
    5700.      16.    4724.     959.      13.     587.     214.     615.      76.   1388.30
      .67     1.25     8.04     4.48     .040     .035     .040     .000  1382.10  9940.00
  .003827     320.     486.     480.       2        0        0      .00   225.00 10165.00


*SECNO 21.669
3280 CROSS SECTION     21.67 EXTENDED       .59 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9890.0   10115.0  TYPE=      1  TARGET=      225.000
   21.669     9.89  1393.89  1393.89  1393.38  1395.24     1.35     2.45      .14  1393.80
    5500.     630.    3935.     935.     132.     373.     181.     624.      78.   1392.00
      .69     4.77    10.56     5.16     .040     .035     .040     .000  1384.00  9890.00
  .007088     440.     491.     470.      20        9        0      .00   225.00 10115.00


*SECNO 21.742

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.58


3470 ENCROACHMENT STATIONS=     9940.0   10140.0  TYPE=      1  TARGET=      200.000
   21.742     9.76  1396.16      .00  1395.18  1396.95      .79     1.66      .06  1394.70
    5500.      87.    5128.     285.      41.     697.      95.     630.      80.   1394.20
      .73     2.15     7.36     3.01     .040     .035     .040     .000  1386.40  9940.00
  .002841     430.     385.     390.       2        0        0      .00   200.00 10140.00


*SECNO 21.840

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .69


3470 ENCROACHMENT STATIONS=     9900.0   10100.0  TYPE=      1  TARGET=      200.000
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SECNO     DEPTH     CWSEL     CRIWS     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

 21.840     6.82   1397.92      .00   1398.04   1399.09     1.17      2.02      .11   1396.20
  5500.     626.     4701.     173.      119.      512.      55.      639.      82.    1397.00
    .72     5.25      9.18     3.17      .040      .035     .040      .000   1391.10   9900.00
.005989     430.      517.     430.         2         0        0       .00    200.00  10100.00


*SECNO 21.895

3470 ENCROACHMENT STATIONS=     9830.0   10080.0  TYPE=      1  TARGET=      250.000
 21.895     7.82   1399.72      .00   1399.67   1401.04     1.32      1.90      .05   1398.00
  5500.    1891.     3424.     185.      334.      314.      54.      644.      84.    1397.70
    .73     5.67     10.89     3.41      .040      .035     .040      .000   1391.90   9834.63
.006875     330.      290.     220.         3         0        0       .00    245.37  10080.00


*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.29


3470 ENCROACHMENT STATIONS=     9650.0   10070.0  TYPE=      1  TARGET=      420.000
 21.933     4.68   1401.48      .00   1400.86   1401.69      .20       .53      .11   1398.00
  5500.    2120.     3380.       0.      709.      857.       0.      649.      85.  100000.00
    .74     2.99      3.94      .00      .040      .035     .000      .000   1396.80   9650.00
.001314     210.      210.     210.         2         0        0       .00    420.00  10070.00


*SECNO 21.953

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .40


3470 ENCROACHMENT STATIONS=     9630.0   10051.0  TYPE=      1  TARGET=      421.000
 21.953     7.20   1401.20      .00   1401.06   1402.09      .89       .20      .21   1400.20
  5500.    2411.     2933.     156.      455.      322.      35.      651.      86.    1398.30
    .75     5.30      9.11     4.43      .045      .045     .045      .000   1394.00   9630.00
.008342      75.       74.      75.         3         0        0       .00    310.27  10051.00
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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

*SECNO 22.065

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.50


3470 ENCROACHMENT STATIONS=     9620.0   10030.0  TYPE=      1  TARGET=      410.000
   22.065     8.68  1404.48      .00  1404.08  1404.84      .36     2.69      .05  1404.10
    5500.    3697.    1792.      11.     840.     321.       5.     662.      90.   1402.00
      .78     4.40     5.59     2.16     .045     .045     .045     .000  1395.80  9620.00
  .003732     430.     591.     630.        3        0        0      .00   396.88 10030.00


*SECNO 22.165

3265 DIVIDED FLOW

3280 CROSS SECTION     22.17 EXTENDED       .36 FEET


3470 ENCROACHMENT STATIONS=     9620.0   10020.0  TYPE=      1  TARGET=      400.000
   22.165    11.06  1406.06      .00  1405.25  1406.42      .36     1.58      .00  1400.90
    5500.    3632.    1860.       8.     953.     295.       5.     677.      95.   1403.70
      .81     3.81     6.31     1.73     .045     .045     .045     .000  1395.00  9620.00
  .002451     530.     528.     530.        3        0        0      .00   381.09 10020.00


*SECNO 22.273

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .69


3470 ENCROACHMENT STATIONS=     9650.0   10027.0  TYPE=      1  TARGET=      377.000
   22.273     8.21  1407.61      .00  1406.66  1408.32      .72     1.80      .11  1404.10
    5500.    1439.    4061.       0.     336.     543.       0.     689.      98. 100000.00
      .83     4.28     7.48      .00     .045     .045     .000     .000  1399.40  9650.00
  .005127     470.     570.     580.        2        0        0      .00   292.44 10027.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 22.410

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9860.0   10040.0  TYPE=      1  TARGET=      180.000
   22.410    10.09  1414.09  1414.09  1414.22  1416.01     1.92     4.99      .36  1410.70
    5500.     717.    4672.     110.     143.     393.      24.     702.     102.   1411.30
      .85     5.03    11.88     4.63     .045     .045     .045     .000  1404.00  9860.00
  .009664     750.     723.     630.        5       11        0      .00   159.26 10040.00


*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.12


3470 ENCROACHMENT STATIONS=     9890.0   10050.0  TYPE=      1  TARGET=      160.000
   22.483    11.24  1416.74      .00  1416.46  1417.04      .30      .87      .16  1411.10
    5500.     505.    4995.       0.     195.    1098.       0.     710.     104. 100000.00
      .87     2.59     4.55      .00     .045     .045     .000     .000  1405.50  9890.00
  .000990     380.     385.     390.        3        0        0      .00   160.00 10050.00


*SECNO 22.578

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .56


3470 ENCROACHMENT STATIONS=     9968.0   10064.0  TYPE=      1  TARGET=       96.000
   22.578    10.52  1417.22      .00  1416.34  1418.01      .79      .82      .15  1416.60
    5500.       0.    5500.       0.       0.     773.       0.     722.     105. 100000.00
      .89      .00     7.12      .00     .000     .045     .000     .000  1406.70  9968.00
  .003142     540.     502.     490.        3        0        0      .00    96.00 10064.00
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   SECNO     DEPTH     CWSEL     CRIWS     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

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.68


3470 ENCROACHMENT STATIONS=     9830.0   10028.0  TYPE=      1  TARGET=      198.000
   22.675     9.02  1418.72      .00  1418.01  1418.96      .24      .89      .05100000.00
    5500.       0.    5500.       0.       0.    1407.       0.     734.     107. 100000.00
      .93      .00     3.91      .00     .000     .045     .000     .000  1409.70  9830.00
  .001107     570.     512.     480.        2        0        0      .00   198.00 10028.00


*SECNO 22.794

3470 ENCROACHMENT STATIONS=     9977.0   10160.0  TYPE=      1  TARGET=      183.000
   22.794     8.80  1419.50      .00  1418.55  1419.84      .34      .85      .03  1417.80
    5500.       9.    5491.       0.       7.    1169.       0.     753.     110. 100000.00
      .97     1.38     4.70      .00     .045     .045     .000     .000  1410.70  9977.00
  .001709     460.     628.     500.        2        0        0      .00   183.00 10160.00


*SECNO 22.880

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .52


3470 ENCROACHMENT STATIONS=     9951.0   10120.0  TYPE=      1  TARGET=      169.000
   22.880     7.53  1420.53      .00  1420.05  1421.31      .78     1.34      .13100000.00
    5500.       0.    5500.       0.       0.     776.       0.     763.     111. 100000.00
      .98      .00     7.09      .00     .000     .045     .000     .000  1413.00  9951.00
  .006285     440.     454.     480.        2        0        0      .00   169.00 10120.00


*SECNO 22.990

3470 ENCROACHMENT STATIONS=     9890.0   10026.0  TYPE=      1  TARGET=      136.000
   22.990     6.73  1424.63      .00  1423.63  1425.77     1.14     4.35      .11100000.00
    5500.       0.    5500.       0.       0.     643.       0.     773.     113. 100000.00
     1.00      .00     8.56      .00     .000     .045     .000     .000  1417.90  9890.00
  .009071     480.     581.     530.        2        0        0      .00   136.00 10026.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 23.097

3470 ENCROACHMENT STATIONS=     9958.0   10090.0  TYPE=      1  TARGET=      132.000
   23.097     5.50  1430.60      .00  1429.89  1432.09     1.50     6.22      .11100000.00
    5500.       0.    5500.       0.       0.     561.       0.     781.     115. 100000.00
     1.02      .00     9.81      .00     .000     .045     .000     .000  1425.10  9958.00
  .013626     640.     565.     490.        3        0        0      .00   132.00 10090.00


*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.05

   23.168     4.42  1433.32      .00  1433.05  1433.46      .14     1.23      .14  1429.50
    5500.     814.    4351.     335.     359.    1361.     171.     791.     118.   1430.30
     1.05     2.27     3.20     1.96     .045     .045     .045     .000  1428.90  9592.72
  .001467     330.     375.     300.        3        0        0      .00   628.93 10221.65


*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   23.253     9.31  1434.51  1434.51  1434.53  1437.36     2.85     1.24      .81  1437.50
    3400.       0.    3400.       0.       0.     251.       0.     802.     122.   1444.20
     1.06      .00    13.56      .00     .000     .040     .000     .000  1425.20  9978.49
  .015114     470.     459.     450.       20       17        0      .00    44.65 10023.14


*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41

   23.334     7.81  1440.41      .00  1440.39  1441.84     1.43     4.33      .14  1443.80
    3400.       0.    3400.       0.       0.     355.       0.     805.     122.   1449.80
     1.07      .00     9.59      .00     .000     .040     .000     .000  1432.60  9969.03
  .007580     400.     417.     420.        2        0        0      .00    66.98 10036.01
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 23.416
   23.416     7.32  1443.82      .00  1443.82  1445.60     1.77     3.66      .10  1447.80
    3400.       0.    3400.       0.       0.     318.       0.     808.     123.   1450.20
     1.09      .00    10.69      .00     .000     .040     .000     .000  1436.50  9980.94
  .009462     400.     433.     430.        3        0        0      .00    59.12 10040.06


*SECNO 23.514
   23.514     8.51  1448.11      .00  1448.11  1449.46     1.35     3.82      .04  1451.40
    3400.       0.    3400.       0.       0.     365.       0.     812.     124.   1451.10
     1.10      .00     9.32      .00     .000     .040     .000     .000  1439.60  9977.54
  .005933     560.     517.     470.        2        0        0      .00    57.48 10035.01


*SECNO 23.544

3301 HV CHANGED MORE THAN HVINS

   23.544     7.51  1448.91      .00  1448.91  1450.79     1.87     1.17      .16  1453.20
    3400.       0.    3400.       0.       0.     309.       0.     814.     124.   1452.90
     1.10      .00    10.99      .00     .000     .040     .000     .000  1441.40  9978.90
  .009548     190.     158.     150.        2        0        0      .00    54.80 10033.70


SPECIAL BRIDGE

SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
     1.25     2.48     3.20      .00     5.70     1.00    14.10      .00   1442.00  1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.95

PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape


 EGPRS     EGLWC     H3       QWEIR    QPR      BAREA    TRAPEZOID     ELLC     ELTRD    WEIRLN
                                                          AREA
   3688.08  1453.58     2.80     3249.     152.      14.      14.    1445.00  1449.00     140.
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SECNO    DEPTH    CWSEL    CRIWS    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   IOC      ICONT    CORAR    TOPWID     ENDST


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1480.00 ELREA=     1480.00

  23.555    10.64  1452.64      .00  1452.64  1453.37      .74     2.58      .00  1453.80
   3400.       0.    3400.       0.       0.     494.       0.     814.     124.   1453.50
    1.11      .00     6.89      .00     .000     .040     .000     .000  1442.00  9974.59
 .002505      60.      60.      60.        2        0        8      .00    63.27 10037.86


*SECNO 23.591
3280 CROSS SECTION     23.59 EXTENDED      1.15 FEET


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1480.00 ELREA=     1480.00

  23.591     8.95  1453.15      .00  1453.15  1453.93      .78      .54      .01  1452.90
   3400.       0.    3400.       0.       0.     478.       0.     816.     124.   1453.80
    1.11      .00     7.11      .00     .000     .040     .000     .000  1444.20  9968.00
 .003292     100.     190.     210.        3        0        0      .00    75.49 10043.49


*SECNO 23.691

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1480.00 ELREA=     1480.00

  23.691     8.75  1455.15      .00  1455.15  1456.48     1.33     2.39      .16  1457.60
   3400.       0.    3400.       0.       0.     368.       0.     821.     125.   1455.30
    1.13      .00     9.24      .00     .000     .040     .000     .000  1446.40  9970.39
 .006585     510.     528.     540.        2        0        0      .00    65.33 10035.72


*SECNO 23.815

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.50


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1480.00 ELREA=     1480.00

  23.815     9.31  1459.01      .00  1459.01  1460.09     1.08     3.59      .02  1458.90
   4350.       0.    4350.       0.       0.     521.       0.     828.     126.   1457.80
    1.15      .00     8.35      .00     .000     .040     .000     .000  1449.70  9951.00
 .004797     650.     655.     680.        3        0        0      .00    86.00 10037.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 23.912
3280 CROSS SECTION     23.91 EXTENDED       .14 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1480.00 ELREA=      1480.00

   23.912    13.14  1461.04      .00  1461.04  1462.18     1.14     2.07      .02  1461.30
    5300.       0.    5300.       0.       0.     619.       0.     835.     127.   1460.90
     1.17      .00     8.56      .00     .000     .040     .000     .000  1447.90  9967.41
  .003558     480.     512.     510.        3        0        0      .00    75.59 10043.00


*SECNO 23.989

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41

   23.989    12.91  1462.61      .00  1462.61  1463.23      .63     1.00      .05  1465.60
    5300.       0.    5300.       0.       0.     835.       0.     842.     128.   1465.80
     1.19      .00     6.35      .00     .000     .040     .000     .000  1449.70  9944.77
  .001801     400.     407.     410.        2        0        0      .00    98.91 10043.68


CCHV=      .300 CEHV=      .500
*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1463.70 ELREA=      1463.70

   24.086     9.84  1463.44      .00  1463.44  1464.31      .87      .95      .12  1453.60
    5300.       0.    5300.       0.       0.     708.       0.     851.     129.   1453.60
     1.21      .00     7.48      .00     .000     .040     .000     .000  1453.60  9972.00
  .001924     450.     512.     560.        4        0        0      .00    72.00 10044.00
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SECNO	DEPTH	CWSEL	CRIWS	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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	71.60	3.00	590.00	.00	1453.60	1453.60

*SECNO 24.096
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1465.39	1464.37	.08	0.	5300.	590.	590.	1462.20	1466.70	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1466.00 ELREA= 1466.00

24.096	11.11	1464.71	.00	1464.71	1465.39	.68	1.09	.00	1453.60
5300.	0.	5300.	0.	0.	800.	0.	852.	129.	1453.60
1.21	.00	6.62	.00	.000	.040	.000	.000	1453.60	9972.00
.001280	56.	56.	56.	2	0	0	.00	72.00	10044.00

*SECNO 24.106

3470 ENCROACHMENT STATIONS= 9955.0 10055.0 TYPE= 1 TARGET= 100.000

24.106	10.80	1465.00	.00	1465.21	1465.52	.51	.07	.05	1464.10
5300.	0.	5300.	0.	0.	922.	0.	853.	129.	100000.00
1.21	.00	5.75	.00	.000	.040	.000	.000	1454.20	9955.00
.001433	80.	53.	20.	2	0	0	.00	100.00	10055.00

CCHV= .100 CEHV= .300
*SECNO 24.195

3470 ENCROACHMENT STATIONS= 9950.0 10050.0 TYPE= 1 TARGET= 100.000

24.195	12.08	1465.68	.00	1465.69	1466.01	.34	.48	.02	100000.00
5300.	0.	5300.	0.	0.	1135.	0.	864.	130.	100000.00
1.24	.00	4.67	.00	.000	.040	.000	.000	1453.60	9950.00
.000766	470.	470.	460.	2	0	0	.00	100.00	10050.00

*SECNO 24.322

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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       DLOSS   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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.71


3470 ENCROACHMENT STATIONS=     9940.0   10080.0  TYPE=      1  TARGET=      140.000
   24.322    14.57  1466.17      .00  1465.91  1466.31      .15      .28      .02100000.00
    5300.       0.    5068.     232.       0.    1628.     148.     886.     132.   1456.80
     1.30      .00     3.11     1.57     .000     .040     .050     .000  1451.60  9940.00
  .000262     640.     671.     630.        2        0        0      .00   140.00 10080.00


*SECNO 24.444

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .43


3470 ENCROACHMENT STATIONS=     9927.0   10080.0  TYPE=      1  TARGET=      153.000
   24.444     9.07  1466.37      .00  1465.95  1466.70      .33      .33      .06  1465.00
    5300.       1.    5299.       0.       1.    1143.       0.     908.     134. 100000.00
     1.34      .84     4.64      .00     .045     .045     .000     .000  1457.30  9927.00
  .001443     640.     644.     600.        2        0        0      .00   153.00 10080.00


*SECNO 24.542

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .44


3470 ENCROACHMENT STATIONS=     9950.0   10160.0  TYPE=      1  TARGET=      210.000
   24.542     7.51  1467.31      .00  1466.33  1468.35     1.04     1.44      .21100000.00
    5300.       0.    5300.       0.       0.     647.       0.     918.     136. 100000.00
     1.36      .00     8.19      .00     .000     .045     .000     .000  1459.80  9950.00
  .007420     470.     517.     530.        3        0        0      .00   121.98 10160.00


*SECNO 24.635
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SECNO    DEPTH    CWSEL    CRIWS    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


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .66


3470 ENCROACHMENT STATIONS=     9940.0   10060.0  TYPE=      1  TARGET=      120.000
   24.635     5.26  1472.06  1471.86  1472.05  1473.84     1.79     5.27      .22100000.00
    5300.       0.    5300.       0.       0.     494.       0.     925.     137. 100000.00
     1.37      .00    10.73      .00     .000     .045     .000     .000  1466.80  9940.00
  .016891     650.     491.     220.        6       14        0      .00   120.00 10060.00


*SECNO 24.738

3265 DIVIDED FLOW

3280 CROSS SECTION     24.74 EXTENDED       .20 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96


3470 ENCROACHMENT STATIONS=     9936.0   10200.0  TYPE=      1  TARGET=      264.000
   24.738     5.80  1477.80      .00  1476.89  1478.28      .48     4.30      .13100000.00
    5200.       0.    2289.    2911.       0.     410.     525.     934.     140.   1480.90
     1.40      .00     5.58     5.55     .000     .045     .045     .000  1472.00  9936.00
  .004242     350.     544.     630.        3        0        0      .00   225.20 10200.00


*SECNO 24.838

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .55


3470 ENCROACHMENT STATIONS=     9968.0   10350.0  TYPE=      1  TARGET=      382.000
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   SECNO     DEPTH     CWSEL     CRIWS     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


   24.838     6.28  1480.98       .00  1480.33  1481.73       .75      3.37       .08100000.00
    5200.       0.     1515.    3685.       0.     171.      616.      944.      143.   1483.50
     1.42      .00      8.87     5.98     .000     .045      .045      .000  1474.70  9968.00
  .013920     470.      528.     450.        3        0         0       .00   370.28 10350.00


*SECNO 24.943

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.35


3470 ENCROACHMENT STATIONS=     9860.0   10300.0  TYPE=      1  TARGET=      440.000
   24.943     6.66  1484.36       .00  1483.44  1484.58       .22      2.79       .05  1481.80
    5200.    1224.      736.    3240.      361.     162.      888.      958.      148.   1484.80
     1.46     3.39      4.54     3.65      .045     .045      .045      .000  1477.70  9860.00
  .002529     530.      554.     570.         1        0         0       .00   433.65 10300.00


*SECNO 25.048

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9850.0   10250.0  TYPE=      1  TARGET=      400.000
   25.048     3.93  1487.63  1487.63  1487.27  1488.57       .94      3.07       .22  1486.60
    5200.    1209.      870.    3121.      181.      98.      396.      971.      153.   1493.60
     1.48     6.67      8.84     7.87      .045     .045      .045      .000  1483.70  9850.00
  .022755     580.      554.     520.        20       14         0       .00   369.90 10250.00
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SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 25.163

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.23


3470 ENCROACHMENT STATIONS=     9940.0   10175.0  TYPE=      1  TARGET=      235.000
   25.163     7.08  1493.08      .00  1492.19  1493.53      .45     4.91      .05  1491.60
    4900.     360.    1585.    2955.      89.     265.     573.     982.     157.   1493.10
     1.51     4.04     5.98     5.15     .045     .045     .045     .000  1486.00  9940.00
  .004072     640.     607.     580.        6        0        0      .00   234.87 10175.00


*SECNO 25.262
3280 CROSS SECTION     25.26 EXTENDED      1.05 FEET


3470 ENCROACHMENT STATIONS=     9750.0   10023.0  TYPE=      1  TARGET=      273.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1491.60 ELREA=     1510.00

   25.262    11.04  1495.04      .00  1494.01  1495.36      .32     1.82      .01  1491.60
    4900.    3562.    1338.       0.     783.     298.       0.     993.     160. 100000.00
     1.54     4.55     4.49      .00     .045     .045     .000     .000  1484.00  9750.00
  .003091     470.     523.     570.        4        0        0      .00   273.00 10023.00


*SECNO 25.374

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9925.0   10023.0  TYPE=      1  TARGET=       98.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1499.30 ELREA=   100000.00

   25.374     6.87  1500.17  1500.17  1499.37  1502.33     2.16     3.90      .55  1499.30
    4900.    1343.    3557.       0.     145.     281.       0.    1005.     163. 100000.00
     1.56     9.23    12.64      .00     .045     .045     .000     .000  1493.30  9925.00
  .017615     680.     591.     300.       20       23        0      .00    98.00 10023.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 25.434

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9970.0   10036.0  TYPE=      1  TARGET=       66.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1504.90 ELREA=    100000.00

   25.434     8.37  1504.17  1504.09  1503.97  1506.91     2.75     4.41      .17100000.00
    4900.       0.    4900.       0.       0.     368.       0.    1008.     164. 100000.00
     1.56      .00    13.30      .00     .000     .035     .000     .000  1495.80  9970.00
  .010572     400.     317.     190.        6       11        0      .00    66.00 10036.00


*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.36


3470 ENCROACHMENT STATIONS=     9970.0   10050.0  TYPE=      1  TARGET=       80.000
   25.500     9.95  1507.65      .00  1507.74  1508.42      .77     1.31      .20100000.00
    4900.       0.    4900.       0.       0.     698.       0.    1012.     164. 100000.00
     1.58      .00     7.02      .00     .000     .035     .000     .000  1497.70  9970.00
  .001894     250.     349.     420.        3        0        0      .00    80.00 10050.00


CCHV=     .300 CEHV=     .500
*SECNO 25.523

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.79


3470 ENCROACHMENT STATIONS=     9960.0   10040.0  TYPE=      1  TARGET=       80.000
   25.523    12.20  1508.20      .00  1507.99  1508.63      .43      .12      .10  1498.00
    4900.      39.    4806.      55.      31.     901.      31.    1014.     164.   1498.00
     1.58     1.26     5.34     1.80     .050     .035     .035     .000  1496.00  9960.00
  .000589     120.     121.     120.        2        0        0      .00    80.00 10040.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   25.534     5.22  1510.76  1510.76  1510.75  1513.36     2.60      .06     1.08  1515.00
    4900.       0.    4900.       0.       0.     378.       0.    1015.     164.   1515.00
     1.58      .00    12.95      .00     .000     .015     .000     .000  1505.54  9963.45
  .002242      58.      58.      58.       20       14        0      .00    73.10 10036.55


*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
   25.551     6.67  1512.21  1510.75  1512.21  1513.80     1.58      .13      .31  1515.00
    4900.       0.    4900.       0.       0.     485.       0.    1016.     165.   1515.00
     1.59      .00    10.10      .00     .000     .015     .000     .000  1505.54  9963.29
  .001026      90.      90.      90.       25        5        0      .00    73.41 10036.71


*SECNO 25.557
   25.557     6.53  1512.07      .00  1512.08  1514.01     1.94      .04      .18  1515.00
    4900.       0.    4900.       0.       0.     439.       0.    1016.     165.   1515.00
     1.59      .00    11.17      .00     .000     .015     .000     .000  1505.54  9959.87
  .001387      32.      32.      32.        2        0        0      .00    80.25 10040.13


*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9949.0   10050.0  TYPE=      1  TARGET=      101.000
   25.561     8.72  1514.32      .00  1514.36  1514.54      .23      .02      .51100000.00
    2900.       0.    2900.       0.       0.     760.       0.    1017.     165. 100000.00
     1.59      .00     3.82      .00     .000     .035     .000     .000  1505.60  9949.44
  .000612      20.      21.      20.        3        0        0      .00   100.55 10050.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


CCHV=     .100 CEHV=     .300
*SECNO 25.680

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .49


3470 ENCROACHMENT STATIONS=     9950.0   10050.0  TYPE=      1  TARGET=      100.000
   25.680     8.30  1514.80      .00  1514.74  1515.26      .45      .64      .07100000.00
    2700.      0.    2700.       0.       0.     500.       0.    1026.     166. 100000.00
     1.62     .00     5.41      .00     .000     .035     .000     .000  1506.50  9950.00
  .002179    580.     628.     660.        2        0        0      .00   100.00 10050.00


*SECNO 25.786

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .44


3470 ENCROACHMENT STATIONS=     9982.0   10082.0  TYPE=      1  TARGET=      100.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1518.90 ELREA=     1515.80

   25.786     5.65  1516.35  1516.23  1516.32  1517.71     1.36     2.18      .27100000.00
    2500.      0.    2454.      46.       0.     260.      16.    1031.     167.   1515.80
     1.64     .00     9.43     2.93     .000     .035     .035     .000  1510.70  9982.00
  .009726    600.     560.     470.        6       14        0      .00   100.00 10082.00


*SECNO 25.947

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.57


3470 ENCROACHMENT STATIONS=     9959.0   10059.0  TYPE=      1  TARGET=      100.000
   25.947     7.46  1521.86      .00  1521.07  1522.40      .54     4.61      .08100000.00
    2300.      0.    2300.       0.       0.     388.       0.    1037.     169. 100000.00
     1.68     .00     5.92      .00     .000     .035     .000     .000  1514.40  9959.00
  .003343    870.     850.     830.        3        0        0      .00   100.00 10059.00
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   SECNO     DEPTH     CWSEL     CRIWS     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


*SECNO 26.058

3470 ENCROACHMENT STATIONS=     9950.0   10023.0  TYPE=      1  TARGET=       73.000
   26.058     7.63  1523.83      .00  1523.49  1524.65      .82     2.16      .08  1522.00
    2200.     174.    2026.       0.      38.     271.       0.    1042.     170. 100000.00
     1.70     4.60     7.47      .00     .035     .035     .000     .000  1516.20  9950.00
  .004141     540.     586.     570.        3        0        0      .00    73.00 10023.00


*SECNO 26.152

3470 ENCROACHMENT STATIONS=     9970.0   10040.0  TYPE=      1  TARGET=       70.000
   26.152     5.70  1525.70      .00  1524.99  1526.20      .50     1.52      .03100000.00
    2000.       0.    2000.       0.       0.     352.       0.    1045.     171. 100000.00
     1.72      .00     5.68      .00     .000     .035     .000     .000  1520.00  9970.00
  .002376     240.     496.     550.        2        0        0      .00    70.00 10040.00


*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9973.0   10060.0  TYPE=      1  TARGET=       87.000
   26.265     6.08  1528.08  1528.08  1528.15  1529.38     1.30     2.54      .24100000.00
    1900.       0.    1761.     139.       0.     187.      32.    1049.     172.   1526.50
     1.74      .00     9.44     4.34     .000     .035     .035     .000  1522.00  9973.34
  .010164     580.     597.     610.        0        8        0      .00    86.66 10060.00


*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.05


3470 ENCROACHMENT STATIONS=     9967.0   10064.0  TYPE=      1  TARGET=       97.000
   26.372     7.57  1531.37      .00  1531.35  1531.69      .32     2.21      .10100000.00
    1700.       0.    1700.       0.       0.     374.       0.    1053.     174. 100000.00
     1.78      .00     4.54      .00     .000     .035     .000     .000  1523.80  9967.05
  .001937     600.     565.     510.        3        0        0      .00    96.95 10064.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO 26.492

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.69


3470 ENCROACHMENT STATIONS=     9955.0   10045.0  TYPE=      1  TARGET=       90.000
   26.492     6.49  1532.19      .00  1532.15  1532.34      .15      .64      .02100000.00
    1600.       0.    1600.       0.       0.     511.       0.    1060.     175. 100000.00
     1.83      .00     3.13      .00     .000     .035     .000     .000  1525.70  9955.00
  .000602     640.     634.     610.        3        0        0      .00    90.00 10045.00


*SECNO 26.582

3470 ENCROACHMENT STATIONS=     9945.0   10025.0  TYPE=      1  TARGET=       80.000
   26.582     8.33  1532.43      .00  1532.24  1532.52      .09      .17      .01100000.00
    1300.       0.    1300.       0.       0.     544.       0.    1065.     176. 100000.00
     1.89      .00     2.39      .00     .000     .030     .000     .000  1524.10  9945.00
  .000221     460.     475.     480.        2        0        0      .00    80.00 10025.00


*SECNO 26.673

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9970.0   10030.0  TYPE=      1  TARGET=       60.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1535.00 ELREA=    100000.00

   26.673     3.14  1534.94  1534.94  1533.98  1536.17     1.23      .32      .34100000.00
    1300.       0.    1300.       0.       0.     146.       0.    1069.     177. 100000.00
     1.90      .00     8.91      .00     .000     .030     .000     .000  1531.80  9970.00
  .010985     510.     480.     460.       20       18        0      .00    60.00 10030.00


*SECNO 26.784
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO    DEPTH    CWSEL    CRIWS    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


3470 ENCROACHMENT STATIONS=     9981.0   10031.0  TYPE=      1  TARGET=       50.000
  26.784     3.55  1546.25  1546.25  1546.18  1547.49     1.24     6.31      .00100000.00
   1100.      0.    1100.       0.       0.     123.       0.    1071.     177. 100000.00
    1.92     .00     8.94      .00     .000     .030     .000     .000  1542.70  9981.00
 .010542    590.     586.     530.       13        8        0      .00    50.00 10031.00


*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  5.95


3470 ENCROACHMENT STATIONS=     9975.0   10025.0  TYPE=      1  TARGET=       50.000
  26.883     7.82  1547.92      .00  1547.31  1548.02      .10      .42      .11100000.00
   1000.      0.    1000.       0.       0.     391.       0.    1074.     178. 100000.00
    1.98     .00     2.56      .00     .000     .030     .000     .000  1540.10  9975.00
 .000246    530.     523.     500.        3        0        0      .00    50.00 10025.00


*SECNO 26.984

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .56


3470 ENCROACHMENT STATIONS=     9975.0   10025.0  TYPE=      1  TARGET=       50.000
  26.984     7.57  1548.07      .00  1547.31  1548.24      .17      .20      .02100000.00
    900.      0.     900.       0.       0.     273.       0.    1078.     179. 100000.00
    2.02     .00     3.29      .00     .000     .030     .000     .000  1540.50  9975.00
 .000645    480.     533.     460.        2        0        0      .00    50.00 10025.00


*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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   SECNO    DEPTH    CWSEL    CRIWS    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


3470 ENCROACHMENT STATIONS=     9883.7   10013.1  TYPE=      1  TARGET=      129.399

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=    100000.00

   27.060     5.35  1559.45  1559.45  1559.46  1561.02     1.57      .66      .42  1560.80
     900.       0.     900.       0.       0.      90.       0.    1080.     179. 100000.00
     2.03      .00    10.05      .00     .000     .030     .000     .000  1554.10  9983.69
  .010211     270.     401.     470.       20       19        0      .00    29.41 10013.10


*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.66


3470 ENCROACHMENT STATIONS=     9881.1   10020.0  TYPE=      1  TARGET=      138.900

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=      1565.00

   27.166     6.98  1562.18      .00  1562.18  1562.35      .17     1.19      .14  1564.20
     600.       0.     600.       0.       0.     182.       0.    1082.     179. 100000.00
     2.08      .00     3.30      .00     .000     .030     .000     .000  1555.20  9981.03
  .000642     560.     560.     560.        3        0        0      .00    38.97 10020.00


*SECNO 27.294

3470 ENCROACHMENT STATIONS=     9972.0   10022.2  TYPE=      1  TARGET=       50.200
   27.294     6.54  1562.54      .00  1562.54  1562.59      .05      .23      .01100000.00
     400.       0.     400.       0.       0.     233.       0.    1085.     180. 100000.00
     2.19      .00     1.72      .00     .000     .030     .000     .000  1556.00  9972.01
  .000167     710.     676.     630.        3        0        0      .00    50.19 10022.20


CCHV=     .100 CEHV=     .300
*SECNO -19.560
START TRIB COMP
   -19.560    19.560  1328.212
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   SECNO    DEPTH    CWSEL    CRIWS    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


3470 ENCROACHMENT STATIONS=     9921.4   10061.0  TYPE=      1  TARGET=      139.630
  -19.560    12.61  1328.21      .00  1328.21  1330.15     1.93      .00      .00  1329.70
   14600.       0.   14600.       0.       0.    1308.       0.    1098.     182. 100000.00
     2.22      .00    11.16      .00     .000     .035     .000     .000  1315.60  9931.37
  .003382     730.     729.     720.        0        0        0      .00   129.62 10060.99


*SECNO  .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9942.6   10073.1  TYPE=      1  TARGET=      130.540
     .029     9.83  1329.43  1329.43  1329.35  1332.59     3.16     1.09      .37100000.00
    9500.       0.    9474.      26.       0.     663.      20.    1108.     183.   1328.20
     2.22      .00    14.29     1.34     .000     .015     .035     .000  1319.60  9942.56
  .001749     380.     430.     450.       20       15        0      .00   130.54 10073.10


*SECNO  .112

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.44


3470 ENCROACHMENT STATIONS=     9905.0   10092.0  TYPE=      1  TARGET=      187.000
     .112    11.38  1332.88      .00  1332.94  1333.42      .55      .57      .26100000.00
    9500.       0.    9500.       0.       0.    1603.       0.    1120.     185. 100000.00
     2.24      .00     5.92      .00     .000     .030     .000     .000  1321.50  9905.00
  .000847     430.     483.     450.        3        0        0      .00   187.00 10092.00


*SECNO  .198

3470 ENCROACHMENT STATIONS=     9910.0   10110.0  TYPE=      1  TARGET=      200.000
     .198     9.46  1333.26      .00  1333.31  1333.92      .66      .46      .03100000.00
    9500.       0.    9500.       0.       0.    1459.       0.    1136.     187. 100000.00
     2.25      .00     6.51      .00     .000     .030     .000     .000  1323.80  9910.00
  .001257     460.     454.     420.        2        0        0      .00   200.00 10110.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO  .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9903.0   10054.0  TYPE=      1  TARGET=      151.000
     .288     7.60  1333.30  1333.30  1333.31  1335.83     2.53     1.22      .56100000.00
    9500.       0.    9500.       0.       0.     745.       0.    1148.     188. 100000.00
     2.27      .00    12.76      .00     .000     .030     .000     .000  1325.70  9903.24
  .007949     470.     475.     460.        4       15        0      .00   150.67 10053.90


*SECNO  .398

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.79


3470 ENCROACHMENT STATIONS=     9912.0   10094.0  TYPE=      1  TARGET=      182.000
     .398     8.47  1337.27      .00  1337.27  1338.35     1.08     2.37      .14100000.00
    9500.       0.    9500.       0.       0.    1139.       0.    1161.     191. 100000.00
     2.29      .00     8.34      .00     .000     .030     .000     .000  1328.80  9912.47
  .002478     600.     581.     540.        2        0        0      .00   181.53 10094.00


*SECNO  .482

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9904.0   10095.0  TYPE=      1  TARGET=      191.000
     .482    10.44  1341.64  1341.64  1342.35  1344.13     2.49     1.48      .42  1341.10
    9500.      20.    8688.     792.      13.     660.     156.    1170.     192.   1338.00
     2.30     1.58    13.16     5.07     .035     .030     .035     .000  1331.20  9904.00
  .004924     440.     444.     270.      20       11        0      .00   191.00 10095.00
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   SECNO    DEPTH    CWSEL    CRIWS    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


*SECNO  .575

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.61


3470 ENCROACHMENT STATIONS=     9870.0   10080.0  TYPE=      1  TARGET=      210.000
     .575    13.34  1344.84      .00  1343.82  1345.71      .87     1.42      .16100000.00
    9500.       0.    9340.     160.       0.    1235.      59.    1182.     195.   1343.10
     2.32      .00     7.56     2.71     .000     .030     .035     .000  1331.50  9870.00
  .001890     460.     491.     500.        2        0        0      .00   210.00 10080.00


*SECNO  .697

3470 ENCROACHMENT STATIONS=     9875.0   10035.0  TYPE=      1  TARGET=      160.000
     .697    11.95  1345.95      .00  1345.06  1346.90      .95     1.17      .02100000.00
    9400.       0.    9209.     191.       0.    1171.      50.    1201.     197.   1341.40
     2.34      .00     7.86     3.82     .000     .030     .035     .000  1334.00  9875.00
  .001739     640.     644.     640.        3        0        0      .00   160.00 10035.00


*SECNO  .826

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9880.0   10040.0  TYPE=      1  TARGET=      160.000
     .826     9.33  1348.13  1348.13  1348.29  1350.60     2.47     2.26      .46  1345.50
    9400      612.    8788.       0.      97.     679.       0.    1217.     200. 100000.00
     2.35     6.28    12.95      .00     .035     .035     .000     .000  1338.80  9880.00
  .008678     680.     681.     660.       20       19        0      .00   160.00 10040.00


*SECNO  .945

3301 HV CHANGED MORE THAN HVINS
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   SECNO    DEPTH    CWSEL    CRIWS    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


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.89


3470 ENCROACHMENT STATIONS=     9870.0   10030.0  TYPE=      1  TARGET=      160.000
     .945    12.05  1352.45      .00  1352.12  1353.37      .92     2.61      .16100000.00
    9400.       0.    9400.       0.       0.    1224.       0.    1231.     202. 100000.00
     2.38      .00     7.68      .00     .000     .035     .000     .000  1340.40  9870.00
  .002420     680.     628.     600.        3        0        0      .00   160.00 10030.00


*SECNO 1.035
3280 CROSS SECTION      1.03 EXTENDED       .61 FEET


3470 ENCROACHMENT STATIONS=     9870.0   10030.0  TYPE=      1  TARGET=      160.000
    1.035    11.71  1353.61      .00  1352.93  1354.72     1.11     1.30      .06100000.00
    9400.       0.    9229.     171.       0.    1084.      35.    1244.     204.   1348.80
     2.39      .00     8.52     4.84     .000     .035     .035     .000  1341.90  9870.00
  .003107     440.     475.     460.        3        0        0      .00   160.00 10030.00


*SECNO 1.121
3280 CROSS SECTION      1.12 EXTENDED       .18 FEET


3470 ENCROACHMENT STATIONS=     9890.0   10050.0  TYPE=      1  TARGET=      160.000
    1.121    11.58  1355.18      .00  1354.16  1355.89      .71     1.13      .04100000.00
    9400.       0.    9400.       0.       0.    1387.       0.    1257.     206. 100000.00
     2.41      .00     6.78      .00     .000     .040     .000     .000  1343.60  9890.00
  .002041     480.     454.     440.        2        0        0      .00   160.00 10050.00


*SECNO 1.204

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .53


3470 ENCROACHMENT STATIONS=     9950.0   10110.0  TYPE=      1  TARGET=      160.000
    1.204    11.44  1355.74      .00  1355.42  1357.83     2.08     1.52      .41100000.00
    9400.       0.    8620.     780.       0.     719.     148.    1268.     207.   1352.50
     2.42      .00    11.99     5.26     .000     .040     .040     .000  1344.30  9950.00
  .007164     430.     438.     450.        3        0        0      .00   160.00 10110.00
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SECNO    DEPTH    CWSEL    CRIWS    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

*SECNO 1.315

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.83


3470 ENCROACHMENT STATIONS=     9905.0   10060.0  TYPE=      1  TARGET=      155.000
   1.315    10.99  1359.79      .00  1359.33  1360.51      .72     2.54      .14100000.00
   9100.       0.    9100.       0.       0.    1341.       0.    1287.     210. 100000.00
    2.45      .00     6.79      .00     .000     .040     .000     .000  1348.80  9905.00
  .002012     720.     734.     700.        2        0        0      .00   155.00 10060.00


*SECNO 1.420
 WATER EL=X5 CARD=   1361.600

3470 ENCROACHMENT STATIONS=     9800.0   10200.0  TYPE=      1  TARGET=      400.000
   1.420     7.60  1361.60      .00  1361.00  1362.84     1.24      .84      .16  1358.00
   8400.    3122.    3372.    1906.     465.     284.     354.    1298.     213.   1358.00
    2.46     6.72    11.88     5.38     .020     .020     .020     .000  1354.00  9800.00
  .002173     380.     407.     420.        0        0        0      .00   400.00 10200.00
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THIS RUN EXECUTED 1/10/91 11:59:41

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

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

CAVE CREEK WASH

SUMMARY PRINTOUT

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	17.588	1269.60	1283.69	9777.93	10229.71	451.78	14.09	15400.00	.33	.00	.00	.00	.00
	17.588	1269.60	1284.69	9855.24	10193.00	337.76	15.09	15400.00	.39	.00	.00	.00	.00
*	17.662	1271.60	1283.82	9829.44	10149.15	319.71	12.22	15400.00	.89	.13	.00	.00	.00
*	17.662	1271.60	1284.81	9900.00	10150.00	250.00	13.21	15400.00	.96	.12	.00	.00	.00
*	17.783	1275.40	1285.58	9900.35	10101.72	201.37	10.18	15400.00	2.28	1.76	.00	.00	.00
*	17.783	1275.40	1286.37	9921.00	10064.00	143.00	10.97	15400.00	2.28	1.56	.00	.00	.00
	17.932	1277.90	1290.98	9921.07	10085.31	164.24	13.08	15400.00	3.62	5.40	.00	.00	.00
	17.932	1277.90	1291.40	9956.00	10066.00	110.00	13.50	15400.00	3.36	5.03	.00	.00	.00
*	18.042	1282.30	1294.31	9951.61	10048.37	96.76	12.01	15400.00	3.83	3.33	.00	.00	.00
*	18.042	1282.30	1294.43	9951.60	10048.38	96.78	12.13	15400.00	3.74	3.03	.00	.00	.00
	18.061	1283.10	1296.44	9951.54	10048.43	96.89	13.34	15400.00	2.99	2.13	.00	1301.60	1293.20
	18.061	1283.10	1296.69	9951.53	10048.45	96.91	13.59	15400.00	2.86	2.26	.00	1301.60	1293.20
*	18.081	1281.10	1299.54	9876.94	10106.51	229.58	18.44	15400.00	.71	3.10	.00	.00	.00
*	18.081	1281.10	1299.61	9900.00	10085.00	185.00	18.51	15400.00	.71	2.92	.00	.00	.00
	18.174	1281.70	1300.22	9856.87	10454.71	597.84	18.52	15400.00	.30	.68	.00	.00	.00
	18.174	1281.70	1300.18	9857.02	10125.00	267.98	18.48	15400.00	.45	.57	.00	.00	.00
*	18.269	1283.80	1300.17	9881.86	10110.59	228.73	16.37	15400.00	.76	-.05	.00	.00	.00
	18.269	1283.80	1300.30	9882.20	10110.00	227.80	16.50	15400.00	.74	.12	.00	.00	.00
	18.362	1285.30	1300.54	9895.20	10108.18	212.97	15.24	15400.00	.97	.36	.00	.00	.00
	18.362	1285.30	1300.64	9895.60	10107.80	212.20	15.34	15400.00	.95	.35	.00	.00	.00
*	18.445	1287.30	1305.39	9885.22	10271.68	386.47	18.09	15400.00	2.09	4.85	.00	.00	.00
*	18.445	1287.30	1305.16	9886.69	10140.00	253.31	17.86	15400.00	2.45	4.52	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	18.456	1287.70	1307.31	9873.21	10316.94	443.73	19.61	15400.00	1.00	1.92	15108.43	1299.50	1294.20
*	18.456	1287.70	1308.18	9885.00	10140.00	255.00	20.48	15400.00	1.02	3.01	15061.30	1299.50	1294.20
*	18.545	1289.30	1308.28	9881.31	10169.98	288.68	18.98	15400.00	.47	.97	.00	.00	.00
*	18.545	1289.30	1309.18	9881.40	10169.80	288.40	19.88	15400.00	.40	1.00	.00	.00	.00
	18.575	1289.30	1308.43	9880.61	10170.93	290.32	19.13	15400.00	.41	.14	.00	.00	.00
	18.575	1289.30	1309.29	9880.70	10170.80	290.10	19.99	15400.00	.35	.11	.00	.00	.00
	18.583	1289.40	1309.50	9875.91	10177.35	301.44	20.10	15400.00	.34	1.07	14974.04	1299.00	1295.40
	18.583	1289.40	1309.85	9876.10	10177.20	301.10	20.45	15400.00	.32	.56	15075.13	1299.00	1295.40
	18.640	1290.20	1309.43	9879.37	10134.89	255.52	19.23	15400.00	.64	-.07	.00	.00	.00
	18.640	1290.20	1309.78	9879.60	10134.70	255.10	19.58	15400.00	.60	-.07	.00	.00	.00
	18.734	1292.40	1309.68	9883.01	10111.84	228.83	17.28	15400.00	.84	.26	.00	.00	.00
	18.734	1292.40	1310.01	9883.20	10111.70	228.50	17.61	15400.00	.79	.23	.00	.00	.00
	18.832	1293.20	1310.19	9891.67	10107.84	216.17	16.99	15400.00	.85	.51	.00	.00	.00
	18.832	1293.20	1310.47	9891.80	10107.00	215.20	17.27	15400.00	.81	.46	.00	.00	.00
	18.925	1294.60	1310.64	9887.57	10087.64	200.07	16.04	15400.00	.97	.45	.00	.00	.00
	18.925	1294.60	1310.88	9887.70	10087.50	199.80	16.28	15400.00	.92	.41	.00	.00	.00
*	19.018	1297.60	1310.89	9866.12	10038.56	172.44	13.29	15400.00	1.80	.26	.00	.00	.00
*	19.018	1297.60	1311.11	9866.30	10038.50	172.20	13.51	15400.00	1.72	.23	.00	.00	.00
*	19.117	1298.60	1312.49	9942.00	10062.09	120.09	13.89	15400.00	4.37	1.59	.00	.00	.00
*	19.117	1298.60	1312.69	9942.10	10061.90	119.80	14.09	15400.00	4.15	1.58	.00	.00	.00
*	19.210	1300.20	1317.19	9922.94	10081.20	158.26	16.99	15400.00	1.82	4.70	.00	.00	.00
*	19.210	1300.20	1317.09	9923.34	10080.81	157.47	16.89	15400.00	1.85	4.41	.00	.00	.00
*	19.283	1311.70	1319.92	9948.00	10057.00	109.00	8.22	14600.00	4.12	2.73	.00	.00	.00
*	19.283	1311.70	1319.92	9948.00	10057.00	109.00	8.22	14600.00	4.12	2.82	.00	.00	.00
*	19.299	1311.70	1322.06	9948.00	10057.00	109.00	10.36	14600.00	2.60	2.13	.00	1326.50	1324.20
*	19.299	1311.70	1322.06	9948.00	10057.00	109.00	10.36	14600.00	2.60	2.14	.00	1326.50	1324.20
	19.313	1311.70	1323.31	9944.34	10104.00	159.66	11.61	14600.00	1.87	1.25	.00	.00	.00
	19.313	1311.70	1323.30	9944.35	10103.99	159.64	11.60	14600.00	1.87	1.25	.00	.00	.00
	19.418	1313.00	1325.59	9955.11	10117.80	162.69	12.59	14600.00	1.83	2.29	.00	.00	.00
	19.418	1313.00	1325.59	9955.11	10117.80	162.69	12.59	14600.00	1.83	2.29	.00	.00	.00
	19.560	1315.60	1328.21	9931.38	10060.98	129.60	12.61	14600.00	1.94	2.62	.00	.00	.00
	19.560	1315.60	1328.21	9931.37	10060.99	129.63	12.61	14600.00	1.93	2.62	.00	.00	.00
*	19.625	1317.60	1329.89	9965.00	10025.00	60.00	12.29	5700.00	.93	1.68	.00	.00	.00
	19.625	1317.60	1329.95	9965.00	10025.00	60.00	12.35	5700.00	.92	1.74	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	19.691	1318.60	1331.53	9965.00	10025.00	60.00	12.93	5700.00	.84	1.64	.00	1334.80	1328.30
	19.691	1318.60	1331.60	9965.00	10025.00	60.00	13.00	5700.00	.83	1.65	.00	1334.80	1328.30
	19.742	1319.10	1331.99	9935.22	10043.57	108.35	12.89	5700.00	.52	.46	.00	.00	.00
	19.742	1319.10	1332.03	9953.00	10038.00	85.00	12.93	5700.00	.54	.43	.00	.00	.00
*	19.847	1318.80	1332.14	9940.63	10050.49	109.85	13.34	5700.00	.59	.15	.00	.00	.00
*	19.847	1318.80	1332.14	9957.00	10043.00	86.00	13.34	5700.00	.67	.11	.00	.00	.00
*	19.960	1324.60	1332.37	9950.40	10037.28	86.88	7.77	5700.00	2.55	.24	.00	.00	.00
*	19.960	1324.60	1332.43	9958.00	10031.00	73.00	7.83	5700.00	2.60	.29	.00	.00	.00
*	19.974	1323.80	1333.31	9969.00	10020.00	51.00	9.51	5700.00	2.14	.94	.00	.00	.00
*	19.974	1323.80	1333.67	9969.00	10020.00	51.00	9.87	5700.00	1.99	1.24	.00	.00	.00
	19.986	1323.80	1335.25	9969.00	10020.00	51.00	11.45	5700.00	1.48	1.94	.00	1337.90	1334.10
	19.986	1323.80	1335.72	9969.00	10020.00	51.00	11.92	5700.00	1.37	2.05	.00	1337.90	1334.10
*	20.049	1327.10	1338.35	9971.56	10025.19	53.63	11.25	5700.00	3.54	3.10	.00	.00	.00
*	20.049	1327.10	1338.20	9975.00	10024.93	49.93	11.10	5700.00	3.76	2.49	.00	.00	.00
*	20.144	1330.90	1343.48	9960.58	10044.51	83.94	12.58	5700.00	1.58	5.13	.00	.00	.00
*	20.144	1330.90	1343.38	9972.00	10029.00	57.00	12.48	5700.00	1.79	5.17	.00	.00	.00
	20.242	1333.30	1345.49	9961.30	10049.98	88.68	12.19	5700.00	1.57	2.00	.00	.00	.00
	20.242	1333.30	1345.51	9964.00	10035.00	71.00	12.21	5700.00	1.65	2.13	.00	.00	.00
	20.335	1337.30	1347.44	9950.57	10038.88	88.31	10.14	5700.00	1.17	1.95	.00	.00	.00
	20.335	1337.30	1347.54	9963.00	10036.00	73.00	10.24	5700.00	1.25	2.03	.00	.00	.00
	20.347	1337.20	1347.24	9970.00	10021.00	51.00	10.04	5700.00	1.92	-.20	.00	.00	.00
	20.347	1337.20	1347.42	9970.00	10021.00	51.00	10.22	5700.00	1.86	-.12	.00	.00	.00
	20.366	1337.20	1347.97	9970.00	10021.00	51.00	10.77	5700.00	1.67	.73	.00	1354.50	1349.70
	20.366	1337.20	1348.18	9970.00	10021.00	51.00	10.98	5700.00	1.61	.76	.00	1354.50	1349.70
	20.423	1338.00	1349.57	9958.69	10071.51	112.82	11.57	5700.00	.94	1.60	.00	.00	.00
	20.423	1338.00	1349.71	9958.20	10072.00	113.80	11.71	5700.00	.91	1.52	.00	.00	.00
	20.430	1339.30	1349.13	9985.00	10036.00	51.00	9.83	5700.00	2.01	-.44	.00	.00	.00
	20.430	1339.30	1349.27	9985.00	10036.00	51.00	9.97	5700.00	1.95	-.43	.00	.00	.00
	20.444	1339.30	1349.92	9985.00	10036.00	51.00	10.62	5700.00	1.72	.80	.00	1355.50	1351.30
	20.444	1339.30	1350.02	9985.00	10036.00	51.00	10.72	5700.00	1.69	.75	.00	1355.50	1351.30
	20.529	1343.00	1352.25	9905.35	10095.18	189.83	9.25	5700.00	.70	2.33	.00	.00	.00
	20.529	1343.00	1352.24	9930.00	10069.00	139.00	9.24	5700.00	.77	2.22	.00	.00	.00
	20.628	1343.30	1353.31	9917.80	10068.41	150.61	10.01	5700.00	.43	1.06	.00	.00	.00
	20.628	1343.30	1353.34	9935.00	10065.00	130.00	10.04	5700.00	.45	1.10	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	20.725	1347.20	1356.04	9959.29	10026.51	67.22	8.84	5700.00	3.06	2.72	.00	.00	.00
*	20.725	1347.20	1355.94	9962.00	10026.00	64.00	8.74	5700.00	3.18	2.60	.00	.00	.00
*	20.737	1350.90	1358.17	9968.00	10019.00	51.00	7.27	5700.00	3.67	2.13	.00	.00	.00
*	20.737	1350.90	1358.20	9968.00	10019.00	51.00	7.30	5700.00	3.64	2.25	.00	.00	.00
*	20.750	1351.00	1360.60	9968.00	10019.00	51.00	9.60	5700.00	2.11	2.43	.00	1366.00	1363.00
*	20.750	1351.00	1360.60	9968.00	10019.00	51.00	9.60	5700.00	2.11	2.40	.00	1366.00	1363.00
*	20.819	1356.50	1362.37	9965.00	10043.00	78.00	5.87	5700.00	2.41	1.77	.00	.00	.00
*	20.819	1356.50	1362.37	9965.00	10043.00	78.00	5.87	5700.00	2.41	1.77	.00	.00	.00
*	20.841	1357.40	1364.38	9965.00	10043.00	78.00	6.98	5700.00	1.70	2.01	.00	1369.90	1365.40
*	20.841	1357.40	1364.38	9965.00	10043.00	78.00	6.98	5700.00	1.70	2.01	.00	1369.90	1365.40
*	20.860	1356.30	1365.98	9800.89	10062.04	261.14	9.68	5700.00	.69	1.60	.00	.00	.00
*	20.860	1356.30	1365.94	9904.00	10060.00	156.00	9.64	5700.00	.72	1.56	.00	.00	.00
	20.942	1359.60	1367.29	9629.81	10168.29	313.22	7.69	5700.00	.43	1.31	.00	.00	.00
*	20.942	1359.60	1367.23	9860.00	10110.00	250.00	7.63	5700.00	.74	1.29	.00	.00	.00
*	21.036	1363.50	1371.95	9568.93	10089.02	520.10	8.45	5700.00	1.12	4.66	.00	.00	.00
*	21.036	1363.50	1371.48	9810.00	10060.00	250.00	7.98	5700.00	1.62	4.25	.00	.00	.00
*	21.127	1366.70	1374.75	9631.62	10066.01	434.39	8.05	5700.00	1.00	2.80	.00	.00	.00
	21.127	1366.70	1374.63	9900.00	10060.00	160.00	7.93	5700.00	1.81	3.15	.00	.00	.00
*	21.230	1372.00	1380.36	9818.28	10126.36	304.81	8.36	5700.00	1.30	5.62	.00	.00	.00
*	21.230	1372.00	1380.37	9900.00	10125.00	221.77	8.37	5700.00	1.52	5.74	.00	.00	.00
*	21.363	1374.10	1383.37	9556.04	10337.00	366.91	9.27	5700.00	.53	3.00	.00	.00	.00
*	21.363	1374.10	1383.58	9939.05	10105.49	166.44	9.48	5700.00	.53	3.21	.00	.00	.00
*	21.484	1378.50	1386.53	9497.84	10076.82	514.70	8.03	5700.00	.92	3.16	.00	.00	.00
*	21.484	1378.50	1387.09	9852.00	10077.00	215.51	8.59	5700.00	1.45	3.51	.00	.00	.00
*	21.576	1382.10	1389.24	9388.00	10340.54	868.38	7.14	5700.00	.78	2.71	.00	.00	.00
*	21.576	1382.10	1390.18	9940.00	10165.00	225.00	8.08	5700.00	.88	3.08	.00	.00	.00
*	21.669	1384.00	1393.38	9392.00	10414.00	977.37	9.38	5500.00	.60	4.13	.00	.00	.00
*	21.669	1384.00	1393.89	9890.00	10115.00	225.00	9.89	5500.00	1.35	3.72	.00	.00	.00
*	21.742	1386.40	1395.18	9744.71	10353.48	525.85	8.78	5500.00	1.19	1.80	.00	.00	.00
*	21.742	1386.40	1396.16	9940.00	10140.00	200.00	9.76	5500.00	.79	2.27	.00	.00	.00
	21.840	1391.10	1398.04	9857.22	10295.09	437.88	6.94	5500.00	.80	2.86	.00	.00	.00
*	21.840	1391.10	1397.92	9900.00	10100.00	200.00	6.82	5500.00	1.17	1.76	.00	.00	.00
*	21.895	1391.90	1399.67	9834.78	10431.00	596.22	7.77	5500.00	.80	1.63	.00	.00	.00
	21.895	1391.90	1399.72	9834.63	10080.00	245.37	7.82	5500.00	1.32	1.80	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	21.933	1396.80	1400.86	9314.75	10285.14	970.39	4.06	5500.00	.13	1.19	.00	.00	.00
*	21.933	1396.80	1401.48	9650.00	10070.00	420.00	4.68	5500.00	.20	1.77	.00	.00	.00
*	21.953	1394.00	1401.06	9424.44	10052.98	459.91	7.06	5500.00	.94	.20	.00	.00	.00
*	21.953	1394.00	1401.20	9630.00	10051.00	310.27	7.20	5500.00	.89	-.28	.00	.00	.00
*	22.065	1395.80	1404.08	9242.08	10049.66	777.84	8.28	5500.00	.17	3.02	.00	.00	.00
*	22.065	1395.80	1404.48	9620.00	10030.00	396.88	8.68	5500.00	.36	3.27	.00	.00	.00
	22.165	1395.00	1405.25	9137.48	10060.52	828.27	10.25	5500.00	.21	1.17	.00	.00	.00
	22.165	1395.00	1406.06	9620.00	10020.00	381.09	11.06	5500.00	.36	1.59	.00	.00	.00
*	22.273	1399.40	1406.66	9320.96	10027.44	419.21	7.26	5500.00	.71	1.42	.00	.00	.00
*	22.273	1399.40	1407.61	9650.00	10027.00	292.44	8.21	5500.00	.72	1.54	.00	.00	.00
*	22.410	1404.00	1414.22	9854.46	10066.88	193.61	10.22	5500.00	1.76	7.56	.00	.00	.00
*	22.410	1404.00	1414.09	9860.00	10040.00	159.26	10.09	5500.00	1.92	6.48	.00	.00	.00
*	22.483	1405.50	1416.46	9874.91	10199.99	325.09	10.96	5500.00	.12	2.23	.00	.00	.00
*	22.483	1405.50	1416.74	9890.00	10050.00	160.00	11.24	5500.00	.30	2.65	.00	.00	.00
*	22.578	1406.70	1416.34	9968.38	10064.20	95.82	9.65	5500.00	.99	-.11	.00	.00	.00
*	22.578	1406.70	1417.22	9968.00	10064.00	96.00	10.52	5500.00	.79	.48	.00	.00	.00
*	22.675	1409.70	1418.01	9740.49	10028.39	287.90	8.31	5500.00	.14	1.66	.00	.00	.00
*	22.675	1409.70	1418.72	9830.00	10028.00	198.00	9.02	5500.00	.24	1.50	.00	.00	.00
*	22.794	1410.70	1418.55	9978.95	10194.69	215.74	7.85	5500.00	.42	.55	.00	.00	.00
	22.794	1410.70	1419.50	9977.00	10160.00	183.00	8.80	5500.00	.34	.78	.00	.00	.00
	22.880	1413.00	1420.05	9952.13	10163.91	211.78	7.05	5500.00	.58	1.49	.00	.00	.00
*	22.880	1413.00	1420.53	9951.00	10120.00	169.00	7.53	5500.00	.78	1.03	.00	.00	.00
	22.990	1417.90	1423.63	9754.06	10026.14	272.08	5.73	5500.00	.62	3.59	.00	.00	.00
	22.990	1417.90	1424.63	9890.00	10026.00	136.00	6.73	5500.00	1.14	4.10	.00	.00	.00
*	23.097	1425.10	1429.89	9899.14	10117.43	186.86	4.79	5500.00	1.57	6.25	.00	.00	.00
	23.097	1425.10	1430.60	9958.00	10090.00	132.00	5.50	5500.00	1.50	5.97	.00	.00	.00
*	23.168	1428.90	1433.05	9604.29	10213.52	609.23	4.15	5500.00	.17	3.16	.00	.00	.00
*	23.168	1428.90	1433.32	9592.72	10221.65	628.93	4.42	5500.00	.14	2.72	.00	.00	.00
*	23.253	1425.20	1434.53	9978.44	10023.18	44.74	9.33	3400.00	2.83	1.48	.00	.00	.00
*	23.253	1425.20	1434.51	9978.49	10023.14	44.65	9.31	3400.00	2.85	1.19	.00	.00	.00
	23.334	1432.60	1440.39	9969.06	10035.98	66.92	7.79	3400.00	1.43	5.86	.00	.00	.00
*	23.334	1432.60	1440.41	9969.03	10036.01	66.98	7.81	3400.00	1.43	5.90	.00	.00	.00
	23.416	1436.50	1443.82	9980.93	10040.07	59.14	7.32	3400.00	1.77	3.43	.00	.00	.00
	23.416	1436.50	1443.82	9980.94	10040.06	59.12	7.32	3400.00	1.77	3.41	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	23.514	1439.60	1448.11	9977.54	10035.01	57.47	8.51	3400.00	1.35	4.28	.00	.00	.00
	23.514	1439.60	1448.11	9977.54	10035.01	57.48	8.51	3400.00	1.35	4.29	.00	.00	.00
	23.544	1441.40	1448.91	9978.90	10033.70	54.80	7.51	3400.00	1.88	.80	.00	.00	.00
	23.544	1441.40	1448.91	9978.90	10033.70	54.80	7.51	3400.00	1.87	.80	.00	.00	.00
*	23.555	1442.00	1452.64	9974.59	10037.86	63.27	10.64	3400.00	.74	3.72	3249.50	1449.00	1445.00
*	23.555	1442.00	1452.64	9974.59	10037.86	63.27	10.64	3400.00	.74	3.72	3249.50	1449.00	1445.00
	23.591	1444.20	1453.15	9968.00	10043.49	75.49	8.95	3400.00	.78	.51	.00	.00	.00
	23.591	1444.20	1453.15	9968.00	10043.49	75.49	8.95	3400.00	.78	.51	.00	.00	.00
	23.691	1446.40	1455.15	9970.39	10035.72	65.33	8.75	3400.00	1.33	2.01	.00	.00	.00
	23.691	1446.40	1455.15	9970.39	10035.72	65.33	8.75	3400.00	1.33	2.01	.00	.00	.00
*	23.815	1449.70	1459.01	9951.00	10037.00	86.00	9.31	4350.00	1.08	3.86	.00	.00	.00
*	23.815	1449.70	1459.01	9951.00	10037.00	86.00	9.31	4350.00	1.08	3.86	.00	.00	.00
*	23.912	1447.90	1461.04	9967.41	10043.00	75.59	13.14	5300.00	1.14	2.03	.00	.00	.00
*	23.912	1447.90	1461.04	9967.41	10043.00	75.59	13.14	5300.00	1.14	2.03	.00	.00	.00
*	23.989	1449.70	1462.61	9944.77	10043.68	98.91	12.91	5300.00	.63	1.56	.00	.00	.00
*	23.989	1449.70	1462.61	9944.77	10043.68	98.91	12.91	5300.00	.63	1.56	.00	.00	.00
	24.086	1453.60	1463.44	9972.00	10044.00	72.00	9.84	5300.00	.87	.83	.00	.00	.00
	24.086	1453.60	1463.44	9972.00	10044.00	72.00	9.84	5300.00	.87	.83	.00	.00	.00
	24.096	1453.60	1464.71	9972.00	10044.00	72.00	11.11	5300.00	.68	1.27	.00	1466.70	1462.20
	24.096	1453.60	1464.71	9972.00	10044.00	72.00	11.11	5300.00	.68	1.27	.00	1466.70	1462.20
	24.106	1454.20	1465.21	9952.58	10119.36	166.78	11.01	5300.00	.34	.50	.00	.00	.00
	24.106	1454.20	1465.00	9955.00	10055.00	100.00	10.80	5300.00	.51	.29	.00	.00	.00
*	24.195	1453.60	1465.69	9941.09	10137.67	196.58	12.09	5300.00	.15	.48	.00	.00	.00
	24.195	1453.60	1465.68	9950.00	10050.00	100.00	12.08	5300.00	.34	.67	.00	.00	.00
*	24.322	1451.60	1465.91	9858.94	10225.25	366.31	14.31	5300.00	.04	.22	.00	.00	.00
*	24.322	1451.60	1466.17	9940.00	10080.00	140.00	14.57	5300.00	.15	.49	.00	.00	.00
*	24.444	1457.30	1465.95	9926.47	10204.13	277.67	8.65	5300.00	.15	.04	.00	.00	.00
*	24.444	1457.30	1466.37	9927.00	10080.00	153.00	9.07	5300.00	.33	.20	.00	.00	.00
*	24.542	1459.80	1466.33	9907.26	10181.31	181.23	6.53	5300.00	.92	.37	.00	.00	.00
*	24.542	1459.80	1467.31	9950.00	10160.00	121.98	7.51	5300.00	1.04	.94	.00	.00	.00
	24.635	1466.80	1472.05	9911.01	10105.18	194.18	5.25	5300.00	1.28	5.72	.00	.00	.00
*	24.635	1466.80	1472.06	9940.00	10060.00	120.00	5.26	5300.00	1.79	4.75	.00	.00	.00
*	24.738	1472.00	1476.89	9936.06	10340.68	355.18	4.89	5200.00	.29	4.84	.00	.00	.00
*	24.738	1472.00	1477.80	9936.00	10200.00	225.20	5.80	5200.00	.48	5.74	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	24.838	1474.70	1480.33	9968.35	10633.62	650.49	5.63	5200.00	.60	3.44	.00	.00	.00
*	24.838	1474.70	1480.98	9968.00	10350.00	370.28	6.28	5200.00	.75	3.18	.00	.00	.00
*	24.943	1477.70	1483.44	9801.22	10618.77	799.36	5.74	5200.00	.12	3.12	.00	.00	.00
*	24.943	1477.70	1484.36	9860.00	10300.00	433.65	6.66	5200.00	.22	3.38	.00	.00	.00
*	25.048	1483.70	1487.27	9705.76	10481.24	557.24	3.57	5200.00	.71	3.83	.00	.00	.00
*	25.048	1483.70	1487.63	9850.00	10250.00	369.90	3.93	5200.00	.94	3.27	.00	.00	.00
*	25.163	1486.00	1492.19	9922.08	10297.84	369.01	6.19	4900.00	.31	4.92	.00	.00	.00
*	25.163	1486.00	1493.08	9940.00	10175.00	234.87	7.08	4900.00	.45	5.45	.00	.00	.00
	25.262	1484.00	1494.01	9501.71	10023.49	521.78	10.01	4900.00	.19	1.82	.00	.00	.00
	25.262	1484.00	1495.04	9750.00	10023.00	273.00	11.04	4900.00	.32	1.96	.00	.00	.00
*	25.374	1493.30	1499.37	9655.94	10023.00	367.07	6.07	4900.00	.26	5.35	.00	.00	.00
*	25.374	1493.30	1500.17	9925.00	10023.00	98.00	6.87	4900.00	2.16	5.12	.00	.00	.00
*	25.434	1495.80	1503.97	9970.53	10035.93	65.40	8.17	4900.00	2.95	4.60	.00	.00	.00
	25.434	1495.80	1504.17	9970.00	10036.00	66.00	8.37	4900.00	2.75	4.00	.00	.00	.00
*	25.500	1497.70	1507.74	9923.52	10094.35	170.83	10.04	4900.00	.34	3.77	.00	.00	.00
*	25.500	1497.70	1507.65	9970.00	10050.00	80.00	9.95	4900.00	.77	3.49	.00	.00	.00
*	25.523	1496.00	1507.99	9930.02	10091.63	161.62	11.99	4900.00	.20	.25	.00	.00	.00
*	25.523	1496.00	1508.20	9960.00	10040.00	80.00	12.20	4900.00	.43	.55	.00	.00	.00
*	25.534	1505.54	1510.75	9963.45	10036.55	73.10	5.21	4900.00	2.61	2.76	.00	.00	.00
*	25.534	1505.54	1510.76	9963.45	10036.55	73.10	5.22	4900.00	2.60	2.56	.00	.00	.00
*	25.551	1505.54	1512.21	9963.29	10036.71	73.41	6.67	4900.00	1.58	1.46	.00	.00	.00
*	25.551	1505.54	1512.21	9963.29	10036.71	73.41	6.67	4900.00	1.58	1.46	.00	.00	.00
	25.557	1505.54	1512.08	9959.87	10040.13	80.27	6.54	4900.00	1.93	-.14	.00	.00	.00
	25.557	1505.54	1512.07	9959.87	10040.13	80.25	6.53	4900.00	1.94	-.14	.00	.00	.00
	25.561	1505.60	1514.36	9949.33	10067.02	117.68	8.76	2900.00	.19	2.29	.00	.00	.00
	25.561	1505.60	1514.32	9949.44	10050.00	100.55	8.72	2900.00	.23	2.24	.00	.00	.00
*	25.680	1506.50	1514.74	9471.45	10305.23	663.75	8.24	2700.00	.04	.38	.00	.00	.00
*	25.680	1506.50	1514.80	9950.00	10050.00	100.00	8.30	2700.00	.45	.48	.00	.00	.00
*	25.786	1510.70	1516.32	9982.01	10442.86	351.98	5.62	2500.00	.64	1.58	.00	.00	.00
*	25.786	1510.70	1516.35	9982.00	10082.00	100.00	5.65	2500.00	1.36	1.55	.00	.00	.00
	25.947	1514.40	1521.07	9958.72	10123.26	164.54	6.67	2300.00	.56	4.75	.00	.00	.00
*	25.947	1514.40	1521.86	9959.00	10059.00	100.00	7.46	2300.00	.54	5.51	.00	.00	.00
	26.058	1516.20	1523.49	9841.26	10023.28	182.03	7.29	2200.00	.49	2.42	.00	.00	.00
	26.058	1516.20	1523.83	9950.00	10023.00	73.00	7.63	2200.00	.82	1.97	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	26.152	1520.00	1524.99	9958.10	10063.97	105.87	4.99	2000.00	.46	1.50	.00	.00	.00
	26.152	1520.00	1525.70	9970.00	10040.00	70.00	5.70	2000.00	.50	1.87	.00	.00	.00
*	26.265	1522.00	1528.15	9972.98	10076.25	103.26	6.15	1900.00	1.24	3.15	.00	.00	.00
*	26.265	1522.00	1528.08	9973.34	10060.00	86.66	6.08	1900.00	1.30	2.38	.00	.00	.00
*	26.372	1523.80	1531.35	9967.15	10064.32	97.17	7.55	1700.00	.32	3.20	.00	.00	.00
*	26.372	1523.80	1531.37	9967.05	10064.00	96.95	7.57	1700.00	.32	3.29	.00	.00	.00
*	26.492	1525.70	1532.15	9885.25	10068.38	183.14	6.45	1600.00	.08	.80	.00	.00	.00
*	26.492	1525.70	1532.19	9955.00	10045.00	90.00	6.49	1600.00	.15	.83	.00	.00	.00
*	26.582	1524.10	1532.24	9470.61	10189.08	718.47	8.14	1300.00	.00	.09	.00	.00	.00
	26.582	1524.10	1532.43	9945.00	10025.00	80.00	8.33	1300.00	.09	.24	.00	.00	.00
*	26.673	1531.80	1533.98	9957.84	10280.56	239.18	2.18	1300.00	.53	1.74	.00	.00	.00
*	26.673	1531.80	1534.94	9970.00	10030.00	60.00	3.14	1300.00	1.23	2.51	.00	.00	.00
*	26.784	1542.70	1546.18	9980.90	10048.91	68.01	3.48	1100.00	1.02	12.20	.00	.00	.00
*	26.784	1542.70	1546.25	9981.00	10031.00	50.00	3.55	1100.00	1.24	11.32	.00	.00	.00
*	26.883	1540.10	1547.31	9765.39	10199.60	434.21	7.21	1000.00	.00	1.13	.00	.00	.00
*	26.883	1540.10	1547.92	9975.00	10025.00	50.00	7.82	1000.00	.10	1.67	.00	.00	.00
*	26.984	1540.50	1547.31	9932.30	10336.41	371.10	6.81	900.00	.00	.00	.00	.00	.00
*	26.984	1540.50	1548.07	9975.00	10025.00	50.00	7.57	900.00	.17	.15	.00	.00	.00
*	27.060	1554.10	1559.46	9983.67	10013.14	29.47	5.36	900.00	1.56	12.15	.00	.00	.00
*	27.060	1554.10	1559.45	9983.69	10013.10	29.41	5.35	900.00	1.57	11.38	.00	.00	.00
*	27.166	1555.20	1562.18	9981.04	10020.03	38.99	6.98	600.00	.17	2.72	.00	.00	.00
*	27.166	1555.20	1562.18	9981.03	10020.00	38.97	6.98	600.00	.17	2.72	.00	.00	.00
	27.294	1556.00	1562.54	9972.01	10022.21	50.20	6.54	400.00	.05	.36	.00	.00	.00
	27.294	1556.00	1562.54	9972.01	10022.20	50.19	6.54	400.00	.05	.36	.00	.00	.00
	-19.560	1315.60	1328.21	9931.37	10060.99	129.62	12.61	14600.00	1.93	-234.33	.00	.00	.00
	-19.560	1315.60	1328.21	9931.37	10060.99	129.62	12.61	14600.00	1.93	-234.33	.00	.00	.00
*	.029	1319.60	1329.35	9942.56	10073.06	130.50	9.75	9500.00	3.24	1.14	.00	.00	.00
*	.029	1319.60	1329.43	9942.56	10073.10	130.54	9.83	9500.00	3.16	1.22	.00	.00	.00
*	.112	1321.50	1332.94	9762.30	10092.55	330.25	11.44	9500.00	.50	3.59	.00	.00	.00
*	.112	1321.50	1332.88	9905.00	10092.00	187.00	11.38	9500.00	.55	3.45	.00	.00	.00
	.198	1323.80	1333.31	9860.87	10110.44	249.57	9.51	9500.00	.63	.37	.00	.00	.00
	.198	1323.80	1333.26	9910.00	10110.00	200.00	9.46	9500.00	.66	.38	.00	.00	.00
*	.288	1325.70	1333.31	9903.19	10053.94	150.75	7.61	9500.00	2.52	.00	.00	.00	.00
*	.288	1325.70	1333.30	9903.24	10053.90	150.67	7.60	9500.00	2.53	.04	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	.398	1328.80	1337.27	9912.48	10094.30	181.83	8.47	9500.00	1.08	3.96	.00	.00	.00
*	.398	1328.80	1337.27	9912.47	10094.00	181.53	8.47	9500.00	1.08	3.96	.00	.00	.00
*	.482	1331.20	1342.35	9903.83	10793.57	889.74	11.15	9500.00	1.05	5.09	.00	.00	.00
*	.482	1331.20	1341.64	9904.00	10095.00	191.00	10.44	9500.00	2.49	4.37	.00	.00	.00
	.575	1331.50	1343.82	9777.80	10508.02	730.21	12.32	9500.00	.71	1.47	.00	.00	.00
*	.575	1331.50	1344.84	9870.00	10080.00	210.00	13.34	9500.00	.87	3.20	.00	.00	.00
	.697	1334.00	1345.06	9856.01	10093.21	237.20	11.06	9400.00	1.04	1.24	.00	.00	.00
	.697	1334.00	1345.95	9875.00	10035.00	160.00	11.95	9400.00	.95	1.12	.00	.00	.00
*	.826	1338.80	1348.29	9845.35	10045.20	199.85	9.49	9400.00	2.23	3.24	.00	.00	.00
*	.826	1338.80	1348.13	9880.00	10040.00	160.00	9.33	9400.00	2.47	2.17	.00	.00	.00
*	.945	1340.40	1352.12	9624.18	10185.88	561.70	11.72	9400.00	.52	3.82	.00	.00	.00
*	.945	1340.40	1352.45	9870.00	10030.00	160.00	12.05	9400.00	.92	4.32	.00	.00	.00
	1.035	1341.90	1352.93	9686.18	10146.95	460.77	11.03	9400.00	.72	.82	.00	.00	.00
	1.035	1341.90	1353.61	9870.00	10030.00	160.00	11.71	9400.00	1.11	1.16	.00	.00	.00
	1.121	1343.60	1354.16	9871.67	10106.95	235.28	10.56	9400.00	.80	1.23	.00	.00	.00
	1.121	1343.60	1355.18	9890.00	10050.00	160.00	11.58	9400.00	.71	1.57	.00	.00	.00
*	1.204	1344.30	1355.42	9930.00	10173.36	226.07	11.12	9400.00	2.09	1.26	.00	.00	.00
*	1.204	1344.30	1355.74	9950.00	10110.00	160.00	11.44	9400.00	2.08	.56	.00	.00	.00
*	1.315	1348.80	1359.33	9904.63	10236.67	332.04	10.53	9100.00	.39	3.91	.00	.00	.00
*	1.315	1348.80	1359.79	9905.00	10060.00	155.00	10.99	9100.00	.72	4.05	.00	.00	.00
*	1.420	1354.00	1361.00	9555.00	10785.00	970.00	7.00	8400.00	.67	1.67	.00	.00	.00
*	1.420	1354.00	1361.60	9800.00	10200.00	400.00	7.60	8400.00	1.24	1.81	.00	.00	.00

CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	17.588	1283.69	.00	1284.02	451.78	3410.65	11671.02	318.33	.00	.00	9982.00	10193.00	.00
	17.588	1284.69	1.00	1285.08	337.76	1964.84	13435.16	.00	.16	9855.24	9982.00	10193.00	10193.00
*	17.662	1283.82	.00	1284.71	319.71	3988.73	11364.70	46.58	.00	.00	9941.00	10130.00	.00
*	17.662	1284.81	.99	1285.77	250.00	2238.05	13039.23	122.73	250.00	9900.00	9941.00	10130.00	10150.00
*	17.783	1285.58	.00	1287.86	201.37	296.49	14381.19	722.32	.00	.00	9921.00	10064.00	.00
*	17.783	1286.37	.79	1288.65	143.00	.00	15400.00	.00	.09	9921.00	9921.00	10064.00	10064.00
	17.932	1290.98	.00	1294.60	164.24	59.98	15314.69	25.33	.00	.00	9956.00	10066.00	.00
	17.932	1291.40	.42	1294.76	110.00	.00	15400.00	.00	.02	9956.00	9956.00	10066.00	10066.00
*	18.042	1294.31	.00	1298.14	96.76	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
*	18.042	1294.43	.12	1298.17	96.78	.00	15400.00	.00	.00	9951.00	9951.00	10049.00	10049.00
	18.061	1296.44	.00	1299.43	96.89	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
	18.061	1296.69	.25	1299.55	96.91	.00	15400.00	.00	.00	9951.00	9951.00	10049.00	10049.00
*	18.081	1299.54	.00	1300.24	229.58	1235.51	12528.72	1635.78	.00	.00	9942.00	10045.00	.00
*	18.081	1299.61	.07	1300.32	185.00	1220.63	12608.39	1570.98	185.00	9900.00	9942.00	10045.00	10085.00
	18.174	1300.22	.00	1300.52	597.84	1569.89	11409.13	2420.99	.00	.00	9919.00	10073.00	.00
	18.174	1300.18	-.04	1300.63	267.98	1800.18	13116.05	483.77	268.00	9857.00	9919.00	10073.00	10125.00
*	18.269	1300.17	.00	1300.93	228.73	2261.70	12456.32	681.98	.00	.00	9942.00	10060.00	.00
	18.269	1300.30	.12	1301.04	227.80	2281.27	12415.20	703.53	227.80	9882.20	9942.00	10060.00	10110.00
	18.362	1300.54	.00	1301.51	212.97	1154.29	13225.19	1020.51	.00	.00	9942.00	10060.00	.00
	18.362	1300.64	.11	1301.60	212.20	1169.84	13188.25	1041.91	212.20	9895.60	9942.00	10060.00	10107.80
*	18.445	1305.39	.00	1307.48	386.47	5165.58	3758.29	6476.14	.00	.00	9992.00	10005.00	.00
*	18.445	1305.16	-.23	1307.61	253.31	5161.83	3904.30	6333.88	255.00	9885.00	9992.00	10005.00	10140.00
*	18.456	1307.31	.00	1308.31	443.73	5168.41	2970.57	7261.02	.00	.00	9992.00	10005.00	.00
*	18.456	1308.18	.86	1309.20	255.00	5652.34	2922.58	6825.08	255.00	9885.00	9992.00	10005.00	10140.00
*	18.545	1308.28	.00	1308.76	288.68	1745.21	11300.05	2354.74	.00	.00	9951.00	10058.00	.00
*	18.545	1309.18	.89	1309.57	288.40	1872.36	10972.57	2555.07	288.40	9881.40	9951.00	10058.00	10169.80
	18.575	1308.43	.00	1308.83	290.32	3584.18	3152.32	8663.50	.00	.00	9972.00	10000.00	.00
	18.575	1309.29	.86	1309.64	290.10	3672.09	3055.17	8672.73	290.10	9880.70	9972.00	10000.00	10170.80
	18.583	1309.50	.00	1309.84	301.44	3685.39	3046.31	8668.30	.00	.00	9972.00	10000.00	.00
	18.583	1309.85	.35	1310.17	301.10	3718.36	3008.40	8673.24	301.10	9876.10	9972.00	10000.00	10177.20
	18.640	1309.43	.00	1310.07	255.52	2345.59	9850.54	3203.87	.00	.00	9955.00	10033.00	.00
	18.640	1309.78	.36	1310.38	255.10	2398.57	9722.50	3278.93	255.10	9879.60	9955.00	10033.00	10134.70

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	18.734	1309.68	.00	1310.53	228.83	1314.28	13486.67	599.05	.00	.00	9938.00	10062.00	.00
	18.734	1310.01	.33	1310.80	228.50	1373.72	13375.45	650.82	228.50	9883.20	9938.00	10062.00	10111.70
	18.832	1310.19	.00	1311.04	216.17	437.54	12951.81	2010.65	.00	.00	9929.00	10046.00	.00
	18.832	1310.47	.28	1311.28	215.20	473.43	12868.13	2058.44	215.20	9891.80	9929.00	10046.00	10107.00
	18.925	1310.64	.00	1311.60	200.07	1711.89	12782.42	905.69	.00	.00	9941.00	10048.00	.00
	18.925	1310.88	.24	1311.80	199.80	1754.56	12703.72	941.72	199.80	9887.70	9941.00	10048.00	10087.50
*	19.018	1310.89	.00	1312.69	172.44	489.51	14883.12	27.37	.00	.00	9903.00	10030.00	.00
*	19.018	1311.11	.21	1312.82	172.20	530.41	14835.76	33.83	172.20	9866.30	9903.00	10030.00	10038.50
*	19.117	1312.49	.00	1316.85	120.09	1414.18	11917.85	2067.97	.00	.00	9973.00	10026.00	.00
*	19.117	1312.69	.20	1316.84	119.80	1458.66	11823.80	2117.53	119.80	9942.10	9973.00	10026.00	10061.90
*	19.210	1317.19	.00	1319.01	158.26	227.00	14955.16	217.84	.00	.00	9945.00	10060.00	.00
*	19.210	1317.09	-.09	1318.95	157.47	219.25	14970.34	210.41	157.90	9923.10	9945.00	10060.00	10081.00
*	19.283	1319.92	.00	1324.04	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.283	1319.92	-.00	1324.04	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1322.06	.00	1324.65	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1322.06	.00	1324.65	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
	19.313	1323.31	.00	1325.17	159.66	.00	14600.00	.00	.00	.00	9932.00	10112.00	.00
	19.313	1323.30	-.00	1325.17	159.64	.00	14600.00	.00	.00	9932.00	9932.00	10112.00	10112.00
	19.418	1325.59	.00	1327.43	162.69	.00	14600.00	.00	.00	.00	9948.00	10120.00	.00
	19.418	1325.59	.00	1327.43	162.69	.00	14600.00	.00	.00	9948.00	9948.00	10120.00	10120.00
	19.560	1328.21	.00	1330.15	129.60	.00	14600.00	.00	.00	.00	9929.00	10065.00	.00
	19.560	1328.21	.00	1330.15	129.63	.00	14600.00	.00	.00	9929.00	9929.00	10065.00	10065.00
*	19.625	1329.89	.00	1330.82	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.625	1329.95	.06	1330.87	60.00	.00	5700.00	.00	.00	9965.00	9965.00	10025.00	10025.00
	19.691	1331.53	.00	1332.37	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.691	1331.60	.07	1332.43	60.00	.00	5700.00	.00	.00	9965.00	9965.00	10025.00	10025.00
	19.742	1331.99	.00	1332.51	108.35	.78	5698.99	.24	.00	.00	9948.00	10042.00	.00
	19.742	1332.03	.04	1332.57	85.00	.00	5700.00	.00	85.00	9953.00	9948.00	10042.00	10038.00
*	19.847	1332.14	.00	1332.73	109.85	.00	5700.00	.00	.00	.00	9929.00	10062.00	.00
*	19.847	1332.14	.00	1332.81	86.00	.00	5700.00	.00	86.00	9957.00	9929.00	10062.00	10043.00
*	19.960	1332.37	.00	1334.93	86.88	38.92	5629.33	31.75	.00	.00	9958.00	10031.00	.00
*	19.960	1332.43	.05	1335.03	73.00	.00	5700.00	.00	73.00	9958.00	9958.00	10031.00	10031.00
*	19.974	1333.31	.00	1335.46	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
*	19.974	1333.67	.35	1335.66	51.00	.00	5700.00	.00	51.00	9969.00	9969.00	10020.00	10020.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	19.986	1335.25	.00	1336.73	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
	19.986	1335.72	.47	1337.08	51.00	.00	5700.00	.00	51.00	9969.00	9969.00	10020.00	10020.00
*	20.049	1338.35	.00	1341.90	53.63	.00	5700.00	.00	.00	.00	9954.00	10027.00	.00
*	20.049	1338.20	-.15	1341.96	49.93	.00	5700.00	.00	50.00	9975.00	9954.00	10027.00	10025.00
*	20.144	1343.48	.00	1345.07	83.94	.00	5588.64	111.36	.00	.00	9955.00	10025.00	.00
*	20.144	1343.38	-.11	1345.17	57.00	.00	5671.10	28.89	57.00	9972.00	9955.00	10025.00	10029.00
	20.242	1345.49	.00	1347.06	88.68	.00	5546.27	153.73	.00	.00	9953.00	10029.00	.00
	20.242	1345.51	.02	1347.16	71.00	.00	5645.34	54.66	71.00	9964.00	9953.00	10029.00	10035.00
	20.335	1347.44	.00	1348.61	88.31	31.74	5639.18	29.07	.00	.00	9958.00	10032.00	.00
	20.335	1347.54	.10	1348.79	73.00	.00	5671.99	28.01	73.00	9963.00	9958.00	10032.00	10036.00
	20.347	1347.24	.00	1349.16	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.347	1347.42	.18	1349.28	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1347.97	.00	1349.64	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1348.18	.22	1349.79	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.423	1349.57	.00	1350.51	112.82	101.68	5266.19	332.13	.00	.00	9975.00	10045.00	.00
	20.423	1349.71	.14	1350.61	113.80	107.11	5250.90	341.99	114.00	9958.00	9975.00	10045.00	10072.00
	20.430	1349.13	.00	1351.13	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.430	1349.27	.14	1351.22	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.444	1349.92	.00	1351.64	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.444	1350.02	.10	1351.71	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.529	1352.25	.00	1352.95	189.83	165.51	5398.15	136.33	.00	.00	9947.00	10055.00	.00
	20.529	1352.24	-.01	1353.01	139.00	79.85	5563.98	56.17	139.00	9930.00	9947.00	10055.00	10069.00
	20.628	1353.31	.00	1353.74	150.61	.00	5700.00	.00	.00	.00	9909.00	10076.00	.00
	20.628	1353.34	.03	1353.79	130.00	.00	5700.00	.00	130.00	9935.00	9909.00	10076.00	10065.00
*	20.725	1356.04	.00	1359.09	67.22	.00	5700.00	.00	.00	.00	9951.00	10036.00	.00
*	20.725	1355.94	-.09	1359.12	64.00	.00	5700.00	.00	64.00	9962.00	9951.00	10036.00	10026.00
*	20.737	1358.17	.00	1361.84	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.737	1358.20	.03	1361.84	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1360.60	.00	1362.70	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1360.60	.00	1362.70	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.819	1362.37	.00	1364.78	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.819	1362.37	.00	1364.78	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1364.38	.00	1366.08	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1364.38	.00	1366.08	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	20.860	1365.98	.00	1366.67	261.14	86.17	5613.83	.00	.00	.00	9942.00	10066.00	.00
*	20.860	1365.94	-.04	1366.67	156.00	26.83	5673.17	.00	156.00	9904.00	9942.00	10066.00	10060.00
	20.942	1367.29	.00	1367.72	313.22	.00	3724.38	1975.62	.00	.00	9854.00	10024.00	.00
*	20.942	1367.23	-.06	1367.96	250.00	.00	4745.17	954.83	250.00	9860.00	9854.00	10024.00	10110.00
*	21.036	1371.95	.00	1373.07	520.10	367.07	5202.79	130.15	.00	.00	9912.00	10020.00	.00
*	21.036	1371.48	-.47	1373.10	250.00	112.48	5545.82	41.70	250.00	9810.00	9912.00	10020.00	10060.00
*	21.127	1374.75	.00	1375.74	434.39	1077.09	4622.90	.00	.00	.00	9974.00	10067.00	.00
	21.127	1374.63	-.12	1376.44	160.00	130.17	5569.82	.00	160.00	9900.00	9974.00	10067.00	10060.00
*	21.230	1380.36	.00	1381.67	304.81	508.80	4046.90	1144.30	.00	.00	9967.00	10048.00	.00
*	21.230	1380.37	.00	1381.88	221.77	251.25	4277.13	1171.62	225.00	9900.00	9967.00	10048.00	10125.00
*	21.363	1383.37	.00	1383.90	366.91	98.15	5566.19	35.65	.00	.00	9928.00	10088.00	.00
*	21.363	1383.58	.21	1384.11	166.44	.00	5684.33	15.67	200.00	9930.00	9928.00	10088.00	10130.00
*	21.484	1386.53	.00	1387.44	514.70	2045.40	3648.02	6.58	.00	.00	9932.00	10026.00	.00
*	21.484	1387.09	.57	1388.54	215.51	967.36	4674.76	57.88	225.00	9852.00	9932.00	10026.00	10077.00
*	21.576	1389.24	.00	1390.02	868.38	720.87	4008.42	970.70	.00	.00	9980.00	10087.00	.00
*	21.576	1390.18	.94	1391.06	225.00	16.47	4724.25	959.29	225.00	9940.00	9980.00	10087.00	10165.00
*	21.669	1393.38	.00	1393.98	977.37	905.25	2788.42	1806.33	.00	.00	9962.00	10031.00	.00
*	21.669	1393.89	.52	1395.24	225.00	629.54	3935.40	935.05	225.00	9890.00	9962.00	10031.00	10115.00
*	21.742	1395.18	.00	1396.38	525.85	29.14	5238.84	232.02	.00	.00	9975.00	10091.00	.00
*	21.742	1396.16	.98	1396.95	200.00	87.25	5127.94	284.80	200.00	9940.00	9975.00	10091.00	10140.00
	21.840	1398.04	.00	1398.83	437.88	945.78	4156.96	397.26	.00	.00	9946.00	10054.00	.00
*	21.840	1397.92	-.12	1399.09	200.00	625.73	4701.10	173.18	200.00	9900.00	9946.00	10054.00	10100.00
*	21.895	1399.67	.00	1400.47	596.22	1555.35	2864.44	1080.21	.00	.00	9975.00	10031.00	.00
	21.895	1399.72	.05	1401.04	245.37	1891.44	3424.05	184.51	250.00	9830.00	9975.00	10031.00	10080.00
*	21.933	1400.86	.00	1400.99	970.39	1740.18	3230.12	529.70	.00	.00	9865.00	10140.00	.00
*	21.933	1401.48	.62	1401.69	420.00	2120.38	3379.62	.00	420.00	9650.00	9865.00	10140.00	10070.00
*	21.953	1401.06	.00	1402.01	459.91	2374.60	2981.81	143.59	.00	.00	9969.00	10029.00	.00
*	21.953	1401.20	.14	1402.09	310.27	2410.71	2933.11	156.19	421.00	9630.00	9969.00	10029.00	10051.00
*	22.065	1404.08	.00	1404.25	777.84	4154.77	1273.89	71.34	.00	.00	9961.00	10028.00	.00
*	22.065	1404.48	.40	1404.84	396.88	3697.13	1792.35	10.51	410.00	9620.00	9961.00	10028.00	10030.00
	22.165	1405.25	.00	1405.46	828.27	4034.46	1433.28	32.26	.00	.00	9983.00	10018.00	.00
	22.165	1406.06	.82	1406.42	381.09	3632.26	1859.77	7.97	400.00	9620.00	9983.00	10018.00	10020.00
*	22.273	1406.66	.00	1407.38	419.21	1973.64	3526.36	.00	.00	.00	9933.00	10028.00	.00
*	22.273	1407.61	.94	1408.32	292.44	1439.28	4060.72	.00	377.00	9650.00	9933.00	10028.00	10027.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	22.410	1414.22	.00	1415.98	193.61	768.28	4585.83	145.88	.00	.00	9973.00	10027.00	.00
*	22.410	1414.09	-.14	1416.01	159.26	717.48	4672.17	110.35	180.00	9860.00	9973.00	10027.00	10040.00
*	22.483	1416.46	.00	1416.58	325.09	301.10	4551.84	647.06	.00	.00	9941.00	10105.00	.00
*	22.483	1416.74	.29	1417.04	160.00	505.09	4994.91	.00	160.00	9890.00	9941.00	10105.00	10050.00
*	22.578	1416.34	.00	1417.33	95.82	.00	5500.00	.00	.00	.00	9968.00	10072.00	.00
*	22.578	1417.22	.88	1418.01	96.00	.00	5500.00	.00	96.00	9968.00	9968.00	10072.00	10064.00
*	22.675	1418.01	.00	1418.14	287.90	.00	5500.00	.00	.00	.00	9736.00	10032.00	.00
*	22.675	1418.72	.71	1418.96	198.00	.00	5500.00	.00	198.00	9830.00	9736.00	10032.00	10028.00
*	22.794	1418.55	.00	1418.97	215.74	1.34	5395.07	103.60	.00	.00	9983.00	10169.00	.00
	22.794	1419.50	.95	1419.84	183.00	9.46	5490.54	.00	183.00	9977.00	9983.00	10169.00	10160.00
	22.880	1420.05	.00	1420.62	211.78	.00	5500.00	.00	.00	.00	9927.00	10167.00	.00
*	22.880	1420.53	.49	1421.31	169.00	.00	5500.00	.00	169.00	9951.00	9927.00	10167.00	10120.00
	22.990	1423.63	.00	1424.26	272.08	.00	5500.00	.00	.00	.00	9739.00	10034.00	.00
	22.990	1424.63	1.00	1425.77	136.00	.00	5500.00	.00	136.00	9890.00	9739.00	10034.00	10026.00
*	23.097	1429.89	.00	1431.46	186.86	38.91	5461.09	.00	.00	.00	9951.00	10121.00	.00
	23.097	1430.60	.71	1432.09	132.00	.00	5500.00	.00	132.00	9958.00	9951.00	10121.00	10090.00
*	23.168	1433.05	.00	1433.22	609.23	763.81	4435.30	300.90	.00	.00	9777.00	10116.00	.00
*	23.168	1433.32	.27	1433.46	628.93	814.23	4351.26	334.52	.00	.00	9777.00	10116.00	.00
*	23.253	1434.53	.00	1437.36	44.74	.00	3400.00	.00	.00	.00	9973.00	10038.00	.00
*	23.253	1434.51	-.03	1437.36	44.65	.00	3400.00	.00	.00	.00	9973.00	10038.00	.00
	23.334	1440.39	.00	1441.83	66.92	.00	3400.00	.00	.00	.00	9962.00	10055.00	.00
*	23.334	1440.41	.01	1441.84	66.98	.00	3400.00	.00	.00	.00	9962.00	10055.00	.00
	23.416	1443.82	.00	1445.60	59.14	.00	3400.00	.00	.00	.00	9974.00	10053.00	.00
	23.416	1443.82	-.00	1445.60	59.12	.00	3400.00	.00	.00	.00	9974.00	10053.00	.00
	23.514	1448.11	.00	1449.46	57.47	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.514	1448.11	.00	1449.46	57.48	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.544	1448.91	.00	1450.79	54.80	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.544	1448.91	.00	1450.79	54.80	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
*	23.555	1452.64	.00	1453.37	63.27	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
*	23.555	1452.64	.00	1453.37	63.27	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.591	1453.15	.00	1453.93	75.49	.00	3400.00	.00	.00	.00	9968.00	10045.00	.00
	23.591	1453.15	.00	1453.93	75.49	.00	3400.00	.00	.00	.00	9968.00	10045.00	.00
	23.691	1455.15	.00	1456.48	65.33	.00	3400.00	.00	.00	.00	9965.00	10036.00	.00
	23.691	1455.15	.00	1456.48	65.33	.00	3400.00	.00	.00	.00	9965.00	10036.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	23.815	1459.01	.00	1460.09	86.00	.00	4350.00	.00	.00	.00	9951.00	10037.00	.00
*	23.815	1459.01	.00	1460.09	86.00	.00	4350.00	.00	.00	.00	9951.00	10037.00	.00
*	23.912	1461.04	.00	1462.18	75.59	.00	5300.00	.00	.00	.00	9967.00	10043.00	.00
*	23.912	1461.04	.00	1462.18	75.59	.00	5300.00	.00	.00	.00	9967.00	10043.00	.00
*	23.989	1462.61	.00	1463.23	98.91	.00	5300.00	.00	.00	.00	9937.00	10049.00	.00
*	23.989	1462.61	.00	1463.23	98.91	.00	5300.00	.00	.00	.00	9937.00	10049.00	.00
	24.086	1463.44	.00	1464.31	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.086	1463.44	.00	1464.31	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.096	1464.71	.00	1465.39	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.096	1464.71	.00	1465.39	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.106	1465.21	.00	1465.55	166.78	1.08	4877.63	421.28	.00	.00	9955.00	10064.00	.00
	24.106	1465.00	-.21	1465.52	100.00	.00	5300.00	.00	100.00	9955.00	9955.00	10064.00	10055.00
*	24.195	1465.69	.00	1465.84	196.58	.00	5300.00	.00	.00	.00	9933.00	10142.00	.00
	24.195	1465.68	-.01	1466.01	100.00	.00	5300.00	.00	100.00	9950.00	9933.00	10142.00	10050.00
*	24.322	1465.91	.00	1465.95	366.31	6.23	4200.34	1093.43	.00	.00	9871.00	10064.00	.00
*	24.322	1466.17	.26	1466.31	140.00	.00	5067.63	232.37	140.00	9940.00	9871.00	10064.00	10080.00
*	24.444	1465.95	.00	1466.10	277.67	.36	4211.19	1088.46	.00	.00	9928.00	10122.00	.00
*	24.444	1466.37	.41	1466.70	153.00	.89	5299.11	.00	153.00	9927.00	9928.00	10122.00	10080.00
*	24.542	1466.33	.00	1467.25	181.23	26.14	5273.86	.00	.00	.00	9914.00	10187.00	.00
*	24.542	1467.31	.98	1468.35	121.98	.00	5300.00	.00	210.00	9950.00	9914.00	10187.00	10160.00
	24.635	1472.05	.00	1473.32	194.18	.00	5300.00	.00	.00	.00	9876.00	10111.00	.00
*	24.635	1472.06	.01	1473.84	120.00	.00	5300.00	.00	120.00	9940.00	9876.00	10111.00	10060.00
*	24.738	1476.89	.00	1477.18	355.18	.00	1399.36	3800.64	.00	.00	9897.00	10038.00	.00
*	24.738	1477.80	.91	1478.28	225.20	.00	2288.79	2911.21	264.00	9936.00	9897.00	10038.00	10200.00
*	24.838	1480.33	.00	1480.92	650.49	.00	1244.32	3955.67	.00	.00	9945.00	10019.00	.00
*	24.838	1480.98	.66	1481.73	370.28	.00	1515.04	3684.96	382.00	9968.00	9945.00	10019.00	10350.00
*	24.943	1483.44	.00	1483.57	799.36	851.43	498.44	3850.13	.00	.00	9983.00	10017.00	.00
*	24.943	1484.36	.92	1484.58	433.65	1224.11	735.71	3240.17	440.00	9860.00	9983.00	10017.00	10300.00
*	25.048	1487.27	.00	1487.98	557.24	1444.52	645.12	3110.36	.00	.00	9966.00	10017.00	.00
*	25.048	1487.63	.36	1488.57	369.90	1208.50	870.32	3121.17	400.00	9850.00	9966.00	10017.00	10250.00
*	25.163	1492.19	.00	1492.51	369.01	205.28	1143.60	3551.12	.00	.00	9972.00	10025.00	.00
*	25.163	1493.08	.89	1493.53	234.87	360.32	1584.93	2954.76	235.00	9940.00	9972.00	10025.00	10175.00
	25.262	1494.01	.00	1494.20	521.78	4118.96	781.04	.00	.00	.00	9948.00	10030.00	.00
	25.262	1495.04	1.03	1495.36	273.00	3562.09	1337.91	.00	273.00	9750.00	9948.00	10030.00	10023.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	25.374	1499.37	.00	1499.62	367.07	3795.47	1104.53	.00	.00	.00	9969.00	10023.00	.00
*	25.374	1500.17	.80	1502.33	98.00	1342.90	3557.10	.00	98.00	9925.00	9969.00	10023.00	10023.00
*	25.434	1503.97	.00	1506.92	65.40	.00	4900.00	.00	.00	.00	9968.00	10036.00	.00
	25.434	1504.17	.20	1506.91	66.00	.00	4900.00	.00	66.00	9970.00	9968.00	10036.00	10036.00
*	25.500	1507.74	.00	1508.08	170.83	.00	4900.00	.00	.00	.00	9908.00	10105.00	.00
*	25.500	1507.65	-.09	1508.42	80.00	.00	4900.00	.00	80.00	9970.00	9908.00	10105.00	10050.00
*	25.523	1507.99	.00	1508.19	161.62	472.40	3501.05	926.55	.00	.00	9963.00	10037.00	.00
*	25.523	1508.20	.21	1508.63	80.00	38.66	4806.13	55.21	80.00	9960.00	9963.00	10037.00	10040.00
*	25.534	1510.75	.00	1513.36	73.10	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.534	1510.76	.00	1513.36	73.10	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.551	1512.21	.00	1513.80	73.41	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.551	1512.21	-.00	1513.80	73.41	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
	25.557	1512.08	.00	1514.01	80.27	.00	4900.00	.00	.00	.00	9954.00	10046.00	.00
	25.557	1512.07	-.00	1514.01	80.25	.00	4900.00	.00	.00	.00	9954.00	10046.00	.00
	25.561	1514.36	.00	1514.55	117.68	.00	2900.00	.00	.00	.00	9948.00	10069.00	.00
	25.561	1514.32	-.04	1514.54	100.55	.00	2900.00	.00	101.00	9949.00	9948.00	10069.00	10050.00
*	25.680	1514.74	.00	1514.78	663.75	297.03	1319.35	1083.62	.00	.00	9927.00	10093.00	.00
*	25.680	1514.80	.06	1515.26	100.00	.00	2700.00	.00	100.00	9950.00	9927.00	10093.00	10050.00
*	25.786	1516.32	.00	1516.97	351.98	.00	1867.53	632.47	.00	.00	9978.00	10056.00	.00
*	25.786	1516.35	.03	1517.71	100.00	.00	2454.12	45.88	100.00	9982.00	9978.00	10056.00	10082.00
	25.947	1521.07	.00	1521.63	164.54	.00	1967.12	332.87	.00	.00	9950.00	10066.00	.00
*	25.947	1521.86	.79	1522.40	100.00	.00	2300.00	.00	100.00	9959.00	9950.00	10066.00	10059.00
	26.058	1523.49	.00	1523.98	182.03	620.82	1579.18	.00	.00	.00	9966.00	10024.00	.00
	26.058	1523.83	.34	1524.65	73.00	173.53	2026.47	.00	73.00	9950.00	9966.00	10024.00	10023.00
	26.152	1524.99	.00	1525.46	105.87	.00	2000.00	.00	.00	.00	9956.00	10069.00	.00
	26.152	1525.70	.70	1526.20	70.00	.00	2000.00	.00	70.00	9970.00	9956.00	10069.00	10040.00
*	26.265	1528.15	.00	1529.39	103.26	.00	1758.20	141.80	.00	.00	9955.00	10029.00	.00
*	26.265	1528.08	-.07	1529.38	86.66	.00	1760.69	139.31	87.00	9973.00	9955.00	10029.00	10060.00
*	26.372	1531.35	.00	1531.67	97.17	.00	1700.00	.00	.00	.00	9966.00	10080.00	.00
*	26.372	1531.37	.02	1531.69	96.95	.00	1700.00	.00	97.00	9967.00	9966.00	10080.00	10064.00
*	26.492	1532.15	.00	1532.22	183.14	.00	1600.00	.00	.00	.00	9866.00	10084.00	.00
*	26.492	1532.19	.04	1532.34	90.00	.00	1600.00	.00	90.00	9955.00	9866.00	10084.00	10045.00
*	26.582	1532.24	.00	1532.24	718.47	594.58	479.07	226.35	.00	.00	9869.00	10028.00	.00
	26.582	1532.43	.19	1532.52	80.00	.00	1300.00	.00	80.00	9945.00	9869.00	10028.00	10025.00

	SECND	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	26.673	1533.98	.00	1534.51	239.18	.00	1094.68	205.32	.00	.00	9955.00	10077.00	.00
*	26.673	1534.94	.96	1536.17	60.00	.00	1300.00	.00	60.00	9970.00	9955.00	10077.00	10030.00
*	26.784	1546.18	.00	1547.20	68.01	.00	1100.00	.00	.00	.00	9975.00	10080.00	.00
*	26.784	1546.25	.07	1547.49	50.00	.00	1100.00	.00	50.00	9981.00	9975.00	10080.00	10031.00
*	26.883	1547.31	.00	1547.31	434.21	.94	936.36	62.70	.00	.00	9773.00	10122.00	.00
*	26.883	1547.92	.61	1548.02	50.00	.00	1000.00	.00	50.00	9975.00	9773.00	10122.00	10025.00
*	26.984	1547.31	.00	1547.32	371.10	1.28	764.04	134.68	.00	.00	9943.00	10170.00	.00
*	26.984	1548.07	.76	1548.24	50.00	.00	900.00	.00	50.00	9975.00	9943.00	10170.00	10025.00
*	27.060	1559.46	.00	1561.02	29.47	.00	900.00	.00	.00	.00	9980.00	10019.00	.00
*	27.060	1559.45	-.01	1561.02	29.41	.00	900.00	.00	129.40	9883.70	9980.00	10019.00	10013.10
*	27.166	1562.18	.00	1562.35	38.99	.00	600.00	.00	.00	.00	9977.00	10023.00	.00
*	27.166	1562.18	.00	1562.35	38.97	.00	600.00	.00	138.90	9881.10	9977.00	10023.00	10020.00
	27.294	1562.54	.00	1562.59	50.20	.00	400.00	.00	.00	.00	9967.00	10027.00	.00
	27.294	1562.54	.00	1562.59	50.19	.00	400.00	.00	50.20	9972.00	9967.00	10027.00	10022.20
	-19.560	1328.21	.00	1330.15	129.62	.00	14600.00	.00	.00	.00	9929.00	10065.00	.00
	-19.560	1328.21	.00	1330.15	129.62	.00	14600.00	.00	139.63	9921.37	9929.00	10065.00	10061.00
*	.029	1329.35	.00	1332.60	130.50	.00	9478.32	21.68	.00	.00	9942.00	10043.00	.00
*	.029	1329.43	.08	1332.59	130.54	.00	9473.71	26.29	130.54	9942.56	9942.00	10043.00	10073.10
*	.112	1332.94	.00	1333.44	330.25	100.06	9399.94	.00	.00	.00	9887.00	10101.00	.00
*	.112	1332.88	-.07	1333.42	187.00	.00	9500.00	.00	187.00	9905.00	9887.00	10101.00	10092.00
	.198	1333.31	.00	1333.94	249.57	13.92	9486.08	.00	.00	.00	9897.00	10133.00	.00
	.198	1333.26	-.05	1333.92	200.00	.00	9500.00	.00	200.00	9910.00	9897.00	10133.00	10110.00
*	.288	1333.31	.00	1335.83	150.75	.00	9500.00	.00	.00	.00	9885.00	10069.00	.00
*	.288	1333.30	-.01	1335.83	150.67	.00	9500.00	.00	151.00	9903.00	9885.00	10069.00	10054.00
*	.398	1337.27	.00	1338.35	181.83	.00	9500.00	.00	.00	.00	9904.00	10119.00	.00
*	.398	1337.27	.00	1338.35	181.53	.00	9500.00	.00	182.00	9912.00	9904.00	10119.00	10094.00
*	.482	1342.35	.00	1343.41	889.74	79.05	6887.36	2533.59	.00	.00	9937.00	10024.00	.00
*	.482	1341.64	-.71	1344.13	191.00	20.43	8687.72	791.85	191.00	9904.00	9937.00	10024.00	10095.00
	.575	1343.82	.00	1344.53	730.21	727.34	7778.19	994.47	.00	.00	9869.00	10049.00	.00
*	.575	1344.84	1.01	1345.71	210.00	.00	9340.01	159.99	210.00	9870.00	9869.00	10049.00	10080.00
	.697	1345.06	.00	1346.10	237.20	.00	9013.49	386.51	.00	.00	9847.00	10023.00	.00
	.697	1345.95	.90	1346.90	160.00	.00	9208.75	191.25	160.00	9875.00	9847.00	10023.00	10035.00
*	.826	1348.29	.00	1350.53	199.85	729.25	8670.75	.00	.00	.00	9929.00	10050.00	.00
*	.826	1348.13	-.17	1350.60	160.00	612.31	8787.69	.00	160.00	9880.00	9929.00	10050.00	10040.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	.945	1352.12	.00	1352.63	561.70	1059.47	7814.26	526.27	.00	.00	9856.00	10034.00	.00
*	.945	1352.45	.34	1353.37	160.00	.00	9400.00	.00	160.00	9870.00	9856.00	10034.00	10030.00
	1.035	1352.93	.00	1353.65	460.77	1059.57	7955.86	384.58	.00	.00	9841.00	10022.00	.00
	1.035	1353.61	.68	1354.72	160.00	.00	9229.15	170.85	160.00	9870.00	9841.00	10022.00	10030.00
	1.121	1354.16	.00	1354.96	235.28	.00	9395.98	4.02	.00	.00	9868.00	10069.00	.00
	1.121	1355.18	1.02	1355.89	160.00	.00	9400.00	.00	160.00	9890.00	9868.00	10069.00	10050.00
*	1.204	1355.42	.00	1357.51	226.07	.00	8391.40	1008.60	.00	.00	9949.00	10043.00	.00
*	1.204	1355.74	.32	1357.83	160.00	.00	8620.10	779.90	160.00	9950.00	9949.00	10043.00	10110.00
*	1.315	1359.33	.00	1359.72	332.04	.00	6944.01	2155.99	.00	.00	9904.00	10074.00	.00
*	1.315	1359.79	.46	1360.51	155.00	.00	9100.00	.00	155.00	9905.00	9904.00	10074.00	10060.00
*	1.420	1361.00	.00	1361.67	970.00	4308.52	2457.70	1633.78	.00	.00	9970.00	10010.00	.00
*	1.420	1361.60	.60	1362.84	400.00	3122.07	3372.04	1905.89	400.00	9800.00	9970.00	10010.00	10200.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=     17.662  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     17.662  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     17.783  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     17.783  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.042  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.042  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.081  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.081  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.269  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     18.445  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     18.445  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     18.456  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.456  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.545  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.545  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.018  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.018  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.117  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.117  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     19.210  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.210  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.283  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.283  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     19.299  PROFILE=  1  HYDRAULIC JUMP D.S.
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WARNING SECNO=    19.299  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    19.299  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=    19.299  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.625  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.847  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.847  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.960  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.960  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    19.974  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    19.974  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    20.049  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.049  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.049  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    20.049  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.049  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.049  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    20.144  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    20.144  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    20.725  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.725  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.725  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    20.725  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.725  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.725  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    20.737  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.737  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.737  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    20.737  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    20.737  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    20.737  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    20.750  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=    20.750  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    20.750  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=    20.750  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    20.819  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    20.819  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    20.841  PROFILE=  1  HYDRAULIC JUMP D.S.
CAUTION SECNO=    20.841  PROFILE=  2  HYDRAULIC JUMP D.S.

WARNING SECNO=    20.860  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=    20.860  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    20.942  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    21.036  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.036  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.036  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    21.036  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.036  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    21.127  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.127  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    21.230  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.230  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.230  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    21.230  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.230  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    21.363  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    21.363  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    21.484  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.484  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.484  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    21.484  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.484  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.484  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    21.576  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.576  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=    21.576  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    21.669  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.669  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.669  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    21.669  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.669  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.669  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    21.742  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.742  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=    21.742  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    21.840  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    21.895  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.895  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    21.933  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    21.933  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=    21.953  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    21.953  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    21.953  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=    21.953  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    22.065  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.065  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    22.273  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.273  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    22.410  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    22.410  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    22.410  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    22.410  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    22.483  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.483  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    22.578  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.578  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    22.675  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    22.675  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    22.794  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    22.880  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    23.097  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    23.097  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    23.168  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    23.168  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    23.253  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    23.253  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    23.253  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    23.253  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    23.253  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    23.253  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    23.334  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    23.555  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    23.555  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    23.815  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    23.815  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    23.912  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=    23.912  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    23.989  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    23.989  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    24.195  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    24.322  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    24.322  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    24.444  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    24.444  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    24.542  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    24.542  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    24.635  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    24.738  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    24.738  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    24.838  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    24.838  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=    24.838  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    24.943  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    24.943  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    25.048  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.048  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.048  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    25.048  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.048  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.048  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    25.163  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    25.163  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    25.374  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.374  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.374  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    25.374  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.374  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.374  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    25.434  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.434  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.434  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    25.500  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    25.500  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=    25.523  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    25.523  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    25.534  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.534  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.534  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    25.534  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.534  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.534  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    25.551  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=    25.551  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    25.551  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=    25.551  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    25.680  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    25.680  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    25.786  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    25.786  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    25.786  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=    25.786  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    25.947  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    26.265  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    26.265  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    26.265  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    26.265  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=    26.372  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    26.372  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    26.492  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    26.492  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    26.582  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    26.673  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    26.673  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    26.673  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    26.673  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    26.673  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    26.673  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    26.784  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    26.784  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    26.784  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    26.784  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    26.784  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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WARNING SECNO=    26.883  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    26.883  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    26.984  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    26.984  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    27.060  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    27.060  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    27.060  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    27.060  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    27.060  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    27.060  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    27.166  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    27.166  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .029  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .029  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .029  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .029  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .029  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .029  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .112  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .112  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .288  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .288  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .288  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .288  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      .398  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .398  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .482  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .482  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .482  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .482  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .482  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .482  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .575  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .826  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .826  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .826  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .826  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .826  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .826  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .945  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=      .945  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.204  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.204  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     1.204  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.315  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.315  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

NOTE    SECNO=     1.420  PROFILE=  1  WSEL BASED ON X5 CARD
NOTE    SECNO=     1.420  PROFILE=  2  WSEL BASED ON X5 CARD
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FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
17.588	338.	3195.	4.8	1284.7	1283.7	1.0
17.662	250.	1988.	7.7	1284.8	1283.8	1.0
17.783	143.	1271.	12.1	1286.4	1285.6	.8
17.932	110.	1047.	14.7	1291.4	1291.0	.4
18.042	97.	992.	15.5	1294.4	1294.3	.1
18.061	97.	1134.	13.6	1296.7	1296.4	.3
18.081	185.	2411.	6.4	1299.6	1299.5	.1
18.174	268.	3010.	5.1	1300.2	1300.2	.0
18.269	228.	2349.	6.6	1300.3	1300.2	.1
18.362	212.	2086.	7.4	1300.6	1300.5	.1
18.445	253.	1373.	11.2	1305.2	1305.4	-.2
18.456	255.	2040.	7.5	1308.2	1307.3	.9
18.545	288.	3292.	4.7	1309.2	1308.3	.9
18.575	290.	3326.	4.6	1309.3	1308.4	.9
18.583	301.	3469.	4.4	1309.8	1309.5	.3
18.640	255.	2665.	5.8	1309.8	1309.4	.4
18.734	228.	2302.	6.7	1310.0	1309.7	.3
18.832	215.	2253.	6.8	1310.5	1310.2	.3
18.925	200.	2130.	7.2	1310.9	1310.6	.3
19.018	172.	1517.	10.2	1311.1	1310.9	.2
19.117	120.	1023.	15.0	1312.7	1312.5	.2
19.210	157.	1461.	10.5	1317.1	1317.2	-.1
19.283	109.	896.	16.3	1319.9	1319.9	.0
19.299	109.	1129.	12.9	1322.1	1322.1	.0
19.313	160.	1330.	11.0	1323.3	1323.3	.0
19.418	163.	1343.	10.9	1325.6	1325.6	.0
19.560	130.	1308.	11.2	1328.2	1328.2	.0
19.625	60.	741.	7.7	1330.0	1329.9	.1
19.691	60.	780.	7.3	1331.6	1331.5	.1
19.742	85.	969.	5.9	1332.0	1332.0	.0
19.847	86.	868.	6.6	1332.1	1332.1	.0
19.960	73.	441.	12.9	1332.4	1332.4	.0
19.974	51.	503.	11.3	1333.7	1333.3	.4
19.986	51.	608.	9.4	1335.7	1335.3	.4
20.049	50.	366.	15.6	1338.2	1338.4	-.2
20.144	57.	536.	10.6	1343.4	1343.5	-.1
20.242	71.	561.	10.2	1345.5	1345.5	.0
20.335	73.	640.	8.9	1347.5	1347.4	.1
20.347	51.	521.	10.9	1347.4	1347.2	.2
20.366	51.	560.	10.2	1348.2	1348.0	.2
20.423	114.	796.	7.2	1349.7	1349.6	.1
20.430	51.	509.	11.2	1349.3	1349.1	.2

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
20.444	51.	547.	10.4	1350.0	1349.9	.1
20.529	139.	841.	6.8	1352.2	1352.3	-.1
20.628	130.	1059.	5.4	1353.3	1353.3	.0
20.725	64.	398.	14.3	1355.9	1356.0	-.1
20.737	51.	372.	15.3	1358.2	1358.2	.0
20.750	51.	490.	11.6	1360.6	1360.6	.0
20.819	78.	458.	12.5	1362.4	1362.4	.0
20.841	78.	545.	10.5	1364.4	1364.4	.0
20.860	156.	852.	6.7	1365.9	1366.0	-.1
20.942	250.	850.	6.7	1367.2	1367.3	-.1
21.036	250.	608.	9.4	1371.5	1371.9	-.4
21.127	160.	565.	10.1	1374.6	1374.7	-.1
21.230	225.	653.	8.7	1380.4	1380.4	.0
21.363	166.	986.	5.8	1383.6	1383.4	.2
21.484	225.	647.	8.8	1387.1	1386.5	.6
21.576	225.	815.	7.0	1390.2	1389.2	1.0
21.669	225.	686.	8.0	1393.9	1393.4	.5
21.742	200.	832.	6.6	1396.2	1395.2	1.0
21.840	200.	686.	8.0	1397.9	1398.0	-.1
21.895	245.	702.	7.8	1399.7	1399.7	.0
21.933	420.	1566.	3.5	1401.5	1400.9	.6
21.953	421.	812.	6.8	1401.2	1401.1	.1
22.065	410.	1165.	4.7	1404.5	1404.1	.4
22.165	400.	1253.	4.4	1406.1	1405.2	.9
22.273	377.	879.	6.3	1407.6	1406.7	.9
22.410	180.	560.	9.8	1414.1	1414.2	-.1
22.483	160.	1293.	4.3	1416.7	1416.5	.2
22.578	96.	773.	7.1	1417.2	1416.3	.9
22.675	198.	1407.	3.9	1418.7	1418.0	.7
22.794	183.	1176.	4.7	1419.5	1418.6	.9
22.880	169.	776.	7.1	1420.5	1420.0	.5
22.990	136.	643.	8.6	1424.6	1423.6	1.0
23.097	132.	561.	9.8	1430.6	1429.9	.7
23.168	629.	1892.	2.9	1433.3	1433.1	.2
23.253	45.	251.	13.6	1434.5	1434.5	.0
23.334	67.	355.	9.6	1440.4	1440.4	.0
23.416	59.	318.	10.7	1443.8	1443.8	.0
23.514	57.	365.	9.3	1448.1	1448.1	.0
23.544	55.	309.	11.0	1448.9	1448.9	.0
23.555	63.	494.	6.9	1452.6	1452.6	.0
23.591	75.	478.	7.1	1453.1	1453.1	.0
23.691	65.	368.	9.2	1455.2	1455.2	.0

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
23.815	86.	521.	8.4	1459.0	1459.0	.0
23.912	76.	619.	8.6	1461.0	1461.0	.0
23.989	99.	835.	6.3	1462.6	1462.6	.0
24.086	72.	708.	7.5	1463.4	1463.4	.0
24.096	72.	800.	6.6	1464.7	1464.7	.0
24.106	100.	922.	5.7	1465.0	1465.2	-.2
24.195	100.	1135.	4.7	1465.7	1465.7	.0
24.322	140.	1776.	3.0	1466.2	1465.9	.3
24.444	153.	1144.	4.6	1466.4	1466.0	.4
24.542	210.	647.	8.2	1467.3	1466.3	1.0
24.635	120.	494.	10.7	1472.1	1472.0	.1
24.738	264.	935.	5.6	1477.8	1476.9	.9
24.838	382.	787.	6.6	1481.0	1480.3	.7
24.943	440.	1411.	3.7	1484.4	1483.4	1.0
25.048	400.	676.	7.7	1487.6	1487.3	.3
25.163	235.	927.	5.3	1493.1	1492.2	.9
25.262	273.	1082.	4.5	1495.0	1494.0	1.0
25.374	98.	427.	11.5	1500.2	1499.4	.8
25.434	66.	368.	13.3	1504.2	1504.0	.2
25.500	80.	698.	7.0	1507.7	1507.7	.0
25.523	80.	962.	5.1	1508.2	1508.0	.2
25.534	73.	378.	12.9	1510.8	1510.8	.0
25.551	73.	485.	10.1	1512.2	1512.2	.0
25.557	80.	439.	11.2	1512.1	1512.1	.0
25.561	101.	760.	3.8	1514.3	1514.4	-.1
25.680	100.	500.	5.4	1514.8	1514.7	.1
25.786	100.	276.	9.1	1516.4	1516.3	.1
25.947	100.	388.	5.9	1521.9	1521.1	.8
26.058	73.	309.	7.1	1523.8	1523.5	.3
26.152	70.	352.	5.7	1525.7	1525.0	.7
26.265	87.	219.	8.7	1528.1	1528.1	.0
26.372	97.	374.	4.5	1531.4	1531.3	.1
26.492	90.	511.	3.1	1532.2	1532.1	.1
26.582	80.	544.	2.4	1532.4	1532.2	.2
26.673	60.	146.	8.9	1534.9	1534.0	.9
26.784	50.	123.	8.9	1546.3	1546.2	.1
26.883	50.	391.	2.6	1547.9	1547.3	.6
26.984	50.	273.	3.3	1548.1	1547.3	.8
27.060	29.	90.	10.0	1559.5	1559.5	.0
27.166	39.	182.	3.3	1562.2	1562.2	.0
27.294	50.	233.	1.7	1562.5	1562.5	.0
-19.560	130.	1308.	11.2	1328.2	1328.2	.0

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.029	131.	683.	13.9	1329.4	1329.4	.0
.112	187.	1603.	5.9	1332.9	1332.9	.0
.198	200.	1459.	6.5	1333.3	1333.3	.0
.288	151.	745.	12.8	1333.3	1333.3	.0
.398	182.	1139.	8.3	1337.3	1337.3	.0
.482	191.	829.	11.5	1341.6	1342.4	-.8
.575	210.	1294.	7.3	1344.8	1343.8	1.0
.697	160.	1221.	7.7	1346.0	1345.1	.9
.826	160.	776.	12.1	1348.1	1348.3	-.2
.945	160.	1224.	7.7	1352.5	1352.1	.4
1.035	160.	1119.	8.4	1353.6	1352.9	.7
1.121	160.	1387.	6.8	1355.2	1354.2	1.0
1.204	160.	867.	10.8	1355.7	1355.4	.3
1.315	155.	1341.	6.8	1359.8	1359.3	.5
1.420	400.	1102.	7.6	1361.6	1361.0	.6