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HYDROLOGIC STUDY

FOR

SCOTTSDALE LAKES GOLF CLUB

INLET & INTERCEPTOR CHANNELS INDIAN BEND WASH

PREPARED FOR:

DAHLBERG INDUSTRIES

FOR SUBMITTAL TO:

CITY OF SCOTTSDALE

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

U.S. ARMY CORPS OF ENGINEERS/LOS ANGELES DISTRICT

PREPARED BY:

ERIE & ASSOCIATES, INC.

CONSULTING ENGINEERS

IN ASSOCIATION WITH

ROBERT TRENT JONES II/ARTHUR JACK SNYDER
GOLF COURSE ARCHITECTS

EA #1192.1

Revised: January 1987

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Date Signed 3-27-87
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LOCATION/DESCRIPTION

This proposed project includes the majority of the unfinished portions of the Indian Bend Wash Greenbelt within the City of Scottsdale, Arizona. The golf course/channel runs from Indian Bend Road south to McDonald (USCE Inlet Channel) and from Pima Road north of the Arizona Canal west to the Inlet Channel (Interceptor Channel). See Plate 1 - Location Map. The Flood Control District of Maricopa County was the local sponsor for the Corps' work.

Significant flood control work was completed in the project area by the Corps in the late 70's and early 80's as a federal flood control project. As a part of the Corps project the Arizona Canal was put into a siphon under the Inlet Channel with an upstream spillway for release of flood waters.

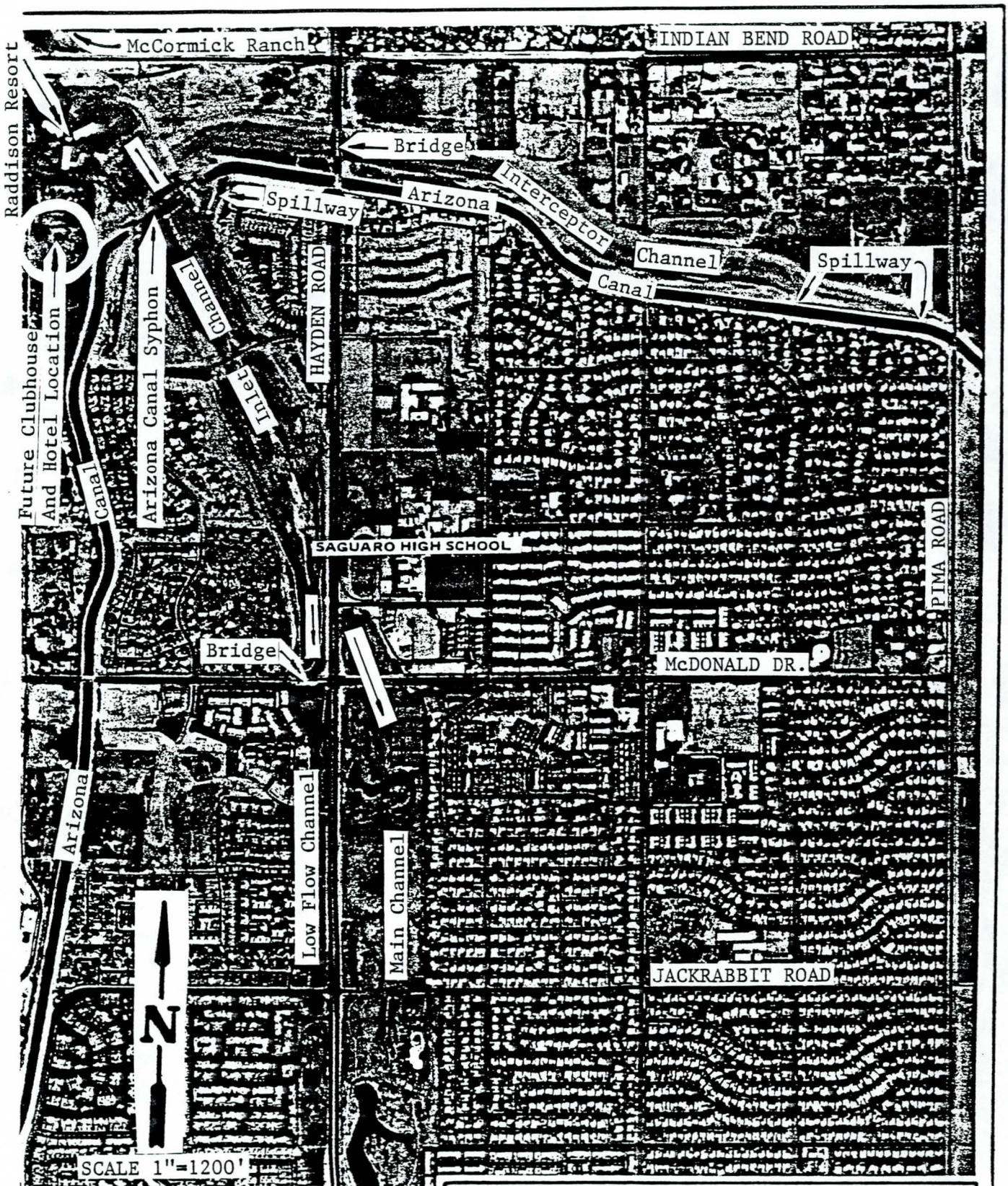
There are two bridges within the project, one at the downstream end at McDonald Drive and the other at the Hayden Road crossing of the Interceptor Channel.

Side drainage from the west enters the site just north (upstream) of the Arizona Canal Siphon by way of a side channel also constructed as a Corps project. This area is also the site of a proposed hotel and club house to be constructed within the same time frame as the golf course.

SUMMARY/RECOMMENDATIONS

Conceptually the objective of the design effort is to construct a golf course within the Inlet and Interceptor Channels that maintains the integrity of the flood control structures such as the bridges, spillways and siphon, while not increasing the design water surface elevations previously established with the Corps project. In addition, low flow capabilities are incorporated to reduce unplayable time during and after flood events.

Significant topographic changes within the channel for the golf course have been achieved by establishing a lower outfall elevation at the downstream end of the site. To establish a lower outfall at the downstream end of the site, a low flow channel (that is within the existing low flow channel and extends approximately 0.5 miles south of the site) is proposed. Further grade was developed using the lakes within the golf course as a low flow system. The net result is that while there is considerable topographic relief within the channel, it has been achieved primarily by removal of material rather than by the addition of mounding, - as was originally anticipated with the Corps design effort.



LOCATION MAP

SCALE	JOB NO.	DATE	PLATE
1"=1200'	1192.	Sept. '86	1

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CONSULTING ENGINEERS Phoenix, Arizona

Velocities within the channel have been checked for a number of flow rates including the Corps 100 year design storm. The golf course design has been structured to achieve channel velocities within the range found to be stable for grassed channels (velocities in the 8 to 10 fps maximum range).

Localized flows in several areas are expected to exceed the limitations of a grass channel lining and therefore, additional slope protection is recommended in these areas (below the two Arizona Canal spillways and downstream of the Arizona Canal siphon). The integrity of the Corps stabilized bank protection in the Inlet Channel is maintained, with the exception of at the future hotel and clubhouse where the bank will be cut back into the existing grade. Additional easement dedication is anticipated to cover this expanded channel.

A summary of the design flow rates is included in the hydrology section that follows.

HYDROLOGY

As a preliminary stage in development of construction plans by the Corps, an extensive hydrologic analysis was prepared for the Indian Bend watershed. As a result of that study, design flow values were established for the Inlet and Interceptor Channels. The tributary includes a 65 + square mile urbanized area upstream of Indian Bend Road. The 100 year frequency design flow rate of 30,000 cfs assumes fully developed conditions. The tributary to the Interceptor Channel extends east into the Salt River - Pima Indian community for several miles along the Arizona Canal. The 100 year design flow of 5500 cfs was developed incorporating upstream detention for a portion of the McDowell Mountain drainage entering a development known as Scottsdale Ranch. The contemporaneous flow in the Inlet Channel at the 5500 cfs peak is 20,000 cfs. The hydraulic analyses in this report match the Corps' hydrology.

HYDRAULICS

The hydraulic design of this reach of Indian Bend Wash is relatively complicated due to a number of splits that occur at various stages in flow. The following is a description of the significant existing flow splits within the project site.

a) The low flow channel downstream of Jackrabbit Road is designed to carry approximately 4000 cfs before overflowing Hayden Road into the main channel to the east. The McDonald Drive bridge is however, designed for approximately 12,000 cfs capacity with 4000 cfs going down the low flow channel and 8,000 cfs crossing Hayden Road from McDonald Drive to Jackrabbit Road as a side delivery weir. The 8000 cfs that crosses Hayden Road is prevented from backing up into the McDonald Drive dip to the east by

a dike parallel to the east side of Hayden Road (approximately 600' ± south of McDonald Drive). Hayden Road north of McDonald Drive is set at the design flow of the bridge, or 12,000 cfs.

b) Flows in excess of 12,000 cfs will cross Hayden Road north of McDonald Drive starting just south of Lincoln Drive and; the flow split at the design flow of 30,000 cfs is approximately 13,000 cfs through the bridge with 17,000 cfs going across the dip in McDonald Drive east of the bridge.

The water surface profiles for design conditions in the Inlet Channel and the Interceptor Channel were completed using the Corps' HEC-2 computer program. Water surface profiles were computed for the 100 year - fully developed watershed flow events. In addition, for both the Inlet and Interceptor Channels, water surface profiles for several low flows were computed. The geometric data used in these hydraulic analyses were based on topographic maps (flown on August 16, 1985 and February 23, 1984) with the Scottsdale Lakes Golf Course design superimposed (See the Hydraulic Grading Plans - Appendix III). As indicated in the Hydraulic Grading Plans, the Corps' project control line and section stationing were used in this study.

Two sets of Manning-n values were used in this study, as was the case with the Corps' design studies. For the Inlet Channel, the Manning-n values for the channel/overbanks were set at 0.045 and 0.030. For the Interceptor Channel, the Manning-n values for the channel/ overbanks were set at 0.035 and 0.025. The water surface profiles corresponding to the high sets of Manning-n values were used to compare and analyze water surface elevations; whereas, the water surface profiles corresponding to the low Manning-n values were used to evaluate velocities and the potential for scouring. The Manning-n values used in this study agree with those used in the following design studies:

a) "Gila River Basin, AZ: Indian Bend Wash: Design Memorandum No. 3: Feature Design for Inlet Channel: Project Design for Indian Bend Wash," Los Angeles District, U.S. Army Corps of Engineers, January 1978.

b) "Gila River Basing, AZ: Indian Bend Wash: Design Memorandum No. 4: Feature Design for Interceptor Channel: Project Design for Indian Bend Wash," Los Angeles District, U.S. Army Corps of Engineers, January 1980.

The peak 100 year-fully developed watershed flow events for the Inlet and Interceptor Channels were modeled as 30,000 and 5,500 cfs, respectively. The contemporaneous flow in the Inlet Channel during the peak flow in the Interceptor Channel was modeled as 20,000 cfs, as was done in the Corps' study.

The water surface profiles for the proposed design conditions have been compared and plotted with those given in the Corps of Engineer's report. As indicated in Tables 1 and 2 and the profile sheets in Appendix II, the water surface profiles for the proposed design conditions are:

a) in close agreement with Corps of Engineers (USCE's) profile, downstream of McDonald Drive:

b) significantly lower under design conditions than the USCE's profile in The Inlet Channel Wash upstream of McDonald Road and in the Interceptor Channel.

The proposed golf course is impacting structures within the channels. These areas are discussed as separate issues as follows:

Low Flow Channel South of McDonald - This project is proposing to include grading a new low flow channel within the low flow channel to daylight in the existing lakes north of Jackrabbit. This will give an effective outfall elevation of 1255, the grade of the low point in Jackrabbit Road. An elevation of 1255 is therefore used as the lowest effective grade on the design channel. The low flow reconstruction could however be expanded with City participation to include additional culvert and channelization on Jackrabbit road and to the south. This would further enhance the "low flow" capabilities within the wash. This projects low flow channel is expected to improve significantly the present outfall conditions at the Corps side drain immediately south of McDonald Drive.

McDonald Bridge - The low flow outfall will lower the west bay of the bridge floor approximately 5 feet. A soil cement or grouted cobble lining with upstream and downstream cutoff walls will be added to this bay.

Lincoln Drive - Lincoln Drive is proposed to be lowered approximately nine feet to match the new channel grades. Additional low flow capabilities will be added to the road crossing to provide some low flow capacity to the present dip crossing.

Arizona Canal Siphon/Control Section - Spillway grades downstream of the siphon are proposed to be lowered to enable a low flow pipe to be installed under the siphon connecting the proposed lakes on both sides of the siphon. The proposed twin 60" concrete pipes will operate under a head from the upstream lake to the downstream lake. This pipe installation could be done without disruption of the siphon operation, and would not appear to require a dry up. The base elevation of the siphon spillway will be lowered approximately nine feet. This is proposed to be accomplished through a combination of 3 feet high gabion drop

TABLE 1-Indian Bend Wash

Water Surface Profiles: 100 Year Event (Q = 30,000 cfs)
Existing and Design Conditions/USCE's HIGH n-Values

	USCE'S Existing Conditions		Golf Course Design Conditions		Difference	
Sec. No.	+ * WS Elev.	Vel.** (fps)	* WS Elev.	Vel.** (fps)	Dif. WS Elev.	Vel. (fps)
314.63	52.75	n/a	52.78	7.80	.03	n/a
319.76	53.50	n/a	53.82	5.83	.32	n/a
326.35	54.60	n/a	54.68	5.93	.08	n/a
332.15	55.40	n/a	55.33	4.02	-0.07	n/a
336.20	56.60	n/a	56.06	9.29	-0.54	n/a
341.60	60.50	n/a	61.48	10.00	1.02	n/a
346.95	62.30	n/a	63.27	6.07	1.12	n/a
351.18	63.50	n/a	64.05	7.87	0.55	n/a
356.69	65.10	n/a	65.24	5.31	0.14	n/a
360.85	66.50	n/a	65.79	13.02	-0.17	n/a
365.10	68.00	n/a	67.42	7.03	-0.58	n/a
367.08	68.25	n/a	67.77	7.15	-0.48	n/a
367.18	68.25	n/a	67.78	7.75	-0.47	n/a
367.98	68.40	n/a	67.90	7.28	-0.50	n/a
↑ D/S of McDonald Drive 368.22	68.50	n/a	67.89	9.34	-0.61	n/a
369.30	69.10	n/a	68.33	7.24	-0.77	n/a
370.21	69.50	4.8	68.46	7.94	-1.04	3.14
372.00	69.80	6.3	68.69	11.41	-1.11	5.11
374.35	70.50	8.2	69.12	10.94	-1.38	2.74
375.20	70.75	8.9	69.14	13.94	-1.61	5.04
377.05	71.50	8.7	70.41	6.65	-1.09	-2.05
379.38	72.10	7.6	70.46	9.40	-1.64	1.80
380.85	72.50	6.7	71.08	7.19	-1.42	0.99
383.10	73.00	5.9	71.46	5.60	-1.54	-0.3
385.00	73.25	5.8	71.62	5.80	-1.63	0.0
386.75	73.50	5.8	71.76	5.86	-1.74	0.06
388.65	73.70	5.7	72.02	4.81	-1.68	-0.89

\+ The USCE'S water surface profile data are as given in "Gila River Basin, AZ: Indian Bend Wash Design Memorandum No.3: Feature Design for Inlet Channel."

* Note: Listed water surface elevations correspond to computations using the high Manning-n values (0.040 - Inlet Channel and 0.035 - Interceptor Channel).

** Note: Listed velocities correspond to computations using the low Manning-n values (0.030 - Inlet Channel and 0.025 - Interceptor Channel).

n/a Note: not available

TABLE 1-Indian Bend Wash (Continued)

Water Surface Profiles: 100 Year Event (Q = 30,000 cfs)
Existing and Design Conditions/USCE's HIGH n-Values

	USCE'S Existing Conditions		Golf Course Design Conditions		Difference	
Sec. No.	+ * WS Elev.	Vel.** (fps)	* WS Elev.	Vel.** (fps)	Dif. WS Elev.	Vel. (fps)
391.35	74.10	5.6	72.12	4.53	-1.98	-1.07
392.21	74.25	5.6	72.20	4.75	-2.05	-0.85
394.00	74.50	6.2	72.06	8.81	-2.44	2.61
395.55	74.75	6.7	72.56	5.88	-2.19	-0.82
396.55	74.90	6.9	72.70	5.31	-2.20	-1.59
397.25	75.00	7.1	72.71	5.33	-2.29	-1.77
398.15	75.10	7.3	72.20	10.85	-2.90	3.55
399.45	75.25	7.7	72.97	8.09	-2.28	0.39
401.00	76.00	7.6	73.55	5.49	-2.45	-2.11
402.50	75.90	7.3	73.61	6.32	-2.29	-0.98
404.20	76.20	7.1	73.53	10.02	-2.67	2.92
405.35	76.40	7.1	74.06	8.66	-2.34	1.56
406.70	76.60	7.2	74.53	7.06	-2.07	-0.14
408.00	76.90	7.4	74.87	5.40	-2.03	-2.0
409.25	77.20	7.6	74.73	7.78	-2.47	0.18
410.50	77.35	7.8	74.77	10.25	-2.58	2.45
411.25	77.50	7.7	75.00	12.49	-2.5	4.79
412.25	77.25	8.1	75.73	8.17	-1.52	0.07
413.25	77.90	7.9	76.29	5.79	-1.61	-2.11
414.55	78.20	7.5	76.37	6.59	1.83	-0.91
416.05	78.50	7.1	76.63	6.62	-1.87	-0.48
417.30	78.70	6.8	76.80	6.92	-1.90	0.12
418.45	78.85	6.9	76.86	8.45	-1.99	1.55
419.55	79.00	7.1	77.26	7.79	-1.74	0.69
420.65	79.10	7.3	77.36	9.01	-1.74	1.71
422.30	79.25	7.7	77.55	10.66	-1.70	2.69
423.65	79.50	n/a	77.72	14.34	-1.78	n/a

\+ The USCE'S water surface profile data are as given in "Gila River Basin, AZ: Indian Bend Wash Design Memorandum No.3: Feature Design for Inlet Channel."

* Note: Listed water surface elevations correspond to computations using the high Manning-n values (0.040 - Inlet Channel and 0.035 - Interceptor Channel).

** Note: Listed velocities correspond to computations using the low Manning-n values (0.030 - Inlet Channel and 0.025 - Interceptor Channel).

n/a Note: not available

TABLE 2-Interceptor Channel

Water Surface Profiles: 100 Year Event (Q = 5,500 cfs)
Existing and Design Conditions/USCE's HIGH n-Values

	USCE'S Existing Conditions		Golf Course Design Conditions		Difference	
Sec. No.	* WS Elev.	Vel.** (fps)	* WS Elev.	Vel.** (fps)	Dif. WS Elev.	Vel. (fps)
4.60	76.25	6.09	73.71	4.13	-2.54	-1.96
5.65	76.50	5.8	73.95	2.86	-2.55	-2.94
7.40	76.50	5.3	74.00	3.25	-2.50	-2.05
9.25	76.60	4.8	74.12	2.93	-2.48	-1.87
11.0	76.75	4.0	74.19	3.15	-2.56	-0.85
12.45	76.80	4.0	74.21	4.21	-2.59	.21
13.45	76.90	4.0	74.29	4.45	-2.61	.45
14.40	76.95	4.0	74.31	5.59	-2.64	1.59
15.75	77.00	4.0	74.71	4.17	-2.29	.17
17.05	77.00	4.0	74.90	3.25	-2.10	-0.75
18.20	77.00	4.0	74.77	7.11	-2.23	3.11
19.09	77.00	4.0	75.19	5.05	-1.81	1.05
19.10	77.00	4.0	75.07	6.74	-1.93	2.75
20.15	77.10	4.0	75.52	6.40	-1.58	2.40
20.16	77.10	4.0	75.89	4.57	-1.21	.57
22.05	77.25	4.01	76.13	3.37	-1.12	0.64
23.90	77.45	4.02	76.24	2.96	-1.21	-1.06
26.10	77.50	4.03	76.26	3.95	-1.24	-0.08
28.20	77.60	4.04	76.42	3.11	-1.18	-0.93
30.00	77.90	4.04	76.42	4.31	-1.48	0.27
31.75	78.00	4.05	76.60	3.41	-1.40	-0.64
33.80	78.10	4.06	76.65	3.60	-1.45	-0.46
35.60	78.25	4.06	76.73	3.72	-1.52	-0.34
37.80	78.50	4.07	76.90	2.64	-1.60	-1.43
39.90	78.55	4.08	76.93	2.74	-1.62	-1.34
42.00	78.90	4.09	76.96	3.11	-1.94	-0.98
44.00	78.90	4.1	77.04	2.68	-1.86	-1.42
46.10	78.90	4.1	77.05	3.89	-1.85	-0.21
48.15	78.95	4.1	77.15	5.09	-1.80	0.99
50.20	79.00	4.1	77.42	4.04	-1.58	-0.06

* Note: Listed water surface elevations correspond to computations using the high Manning-n values (0.040 - Inlet Channel and 0.035 - Interceptor Channel)

** Note: Listed velocities correspond to computations using the low Manning-n values (0.030 - Inlet Channel and 0.025 - Interceptor Channel)

TABLE 2-Interceptor Channel

Water Surface Profiles: 100 Year Event (Q = 5,500 cfs)
Existing and Design Conditions/USCE's HIGH n-Values

	USCE'S Existing Conditions		Golf Course Design Conditions		Difference	
Sec. No.	* WS Elev.	Vel.** (fps)	* WS Elev.	Vel.** (fps)	Dif. WS Elev.	Vel. (fps)
52.00	79.10	4.1	77.57	3.28	-1.53	-0.82
54.45	79.20	4.1	77.65	3.27	-1.55	-0.83
56.50	79.25	4.1	77.69	4.40	-1.56	.30
58.50	79.25	4.1	77.65	7.91	-1.60	3.81
60.60	79.60	4.1	78.44	7.35	-1.16	3.25
63.60	79.90	3.40	79.03	6.37	- .87	2.97
66.70	80.00	2.20	79.59	4.05	-0.41	1.85
70.80	80.25	1.62	79.81	1.59	-0.44	-0.03

* Note: Listed water surface elevations correspond to computations using the high Manning-n values (0.040 - Inlet Channel and 0.035 - Interceptor Channel)

** Note: Listed velocities correspond to computations using the low Manning-n values (0.030 - Inlet Channel and 0.025 - Interceptor Channel)

structure below the present concrete chute and a gabion mattress with grass overlaid below the drop.

A flow gauging control section with a cut off wall exists just south of the siphon. This is proposed to be relocated northerly to immediately downstream of the siphon. The gauging house will not therefore require relocation.

Upstream of the Siphon - The channel upstream of the siphon has been modeled at a low effective elevation of 1267.0, the present grade at the top of the siphon within the channel.

Interceptor Channel/Arizona Canal Spillway at Pima Road - The Interceptor Channel grades will be lowered east of Hayden Road with a low flow channel for low flow drainage. The channel will be increased in size at Pima Road to pick up flows crossing the dip in Pima Road north of the Arizona Canal. It is anticipated that the proposed outer loop expressway will install a combination equestrian crossing and drainage structure at this point to eliminate most flows through the dip. The Interceptor spillway will continue to function as designed and modification of the spillway is not anticipated.

Hayden Road Bridge - The proposed low flow channel will require the lowering of the bridge's center bay approximately 7 feet. A soil cement or grouted cobble lining with upstream and downstream cutoff walls will be added to the center bay of the bridge.

The computed velocities listed in Tables 1 and 2 indicate that the proposed golf course both decreases and increases the computed water velocities in the Inlet and Interceptor Channel. In general, the proposed golf course includes additional bed/bank protection adjacent to impacted structures and in high velocity areas (i.e., $V > 8$ fps). The proposed additional bed/bank protection will be constructed so as to maintain the integrity of the existing bed/bank protection.

More specifically, computed velocities (Low Manning-n values) for the Inlet Channel range from approximately 4 to 14 fps. However, the velocities exceed 8 fps only in isolated locations within the project site. The specific bed/bank protection proposed for the high velocity areas are indicated in the Hydraulic Grading Plans and cross section detail sheets (Appendix III).

Computed velocities (Low Manning-n values) for the Interceptor Channel range from approximately 2 to 8 fps. The specific bed/bank protection proposed for high velocity areas and a sewer line crossing are indicated in the cross section detail sheets (Appendix III).

APPENDIX I

HEC-2 PROFILES: INDIAN BEND WASH - INLET CHANNEL

C>TYPE 1192D5A.OP

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****************************************************
*  WATER SURFACE PROFILES                          *
*  VERSION OF NOVEMBER 1976                        *
*  UPDATED MAY 1984                                *
*                                                  *
*  RUN DATE: Thu 22-JAN-1987  TIME: 10:47:57.91    *
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*  U.S. ARMY CORPS OF ENGINEERS        *
*  THE HYDROLOGIC ENGINEERING CENTER   *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616             *
*  (916) 756-1104 (FTS) 448-2105       *
****************************************
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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
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HEC-2 COMPUTATIONS
PERFORMED BY:

ERIE AND ASSOCIATES, INC.
Consulting Engineers
3120 North 24th Street
Phoenix, Arizona 85016

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:::::::::::::::::::::::::::::::::::::::::::::
:::::::::::::::::::::::::::::::::::::::::::::
:::                                       :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION  :::
:::          By: John R. Haestad          :::
:::                                       :::
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H A E S T A D M E T H O D S
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37 Brookside Road * Waterbury, Connecticut 06708 * (203) 753-9800

THIS RUN EXECUTED: Thu 22-JAN-1987 10:47:59.28

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**************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
**************************************************

T1      INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2      EA # 1192.2:  SCOTTSDALE LAKES GOLF COURSE:  USCE'S HIGH "n" VALUES
T3      DESIGN CONDITIONS(5A )              (1192D5A)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC    HVINS     Q       WSEL     FQ
      0.       2.       0.       0.  0.000000    0.00      0.0      0.    52.780   0.000

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH     FN      ALLDC    IBW     CHNIM    ITRACE

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J3  VARIABLE CODES FOR SUMMARY PRINTOUT

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NC      0.045     0.045     0.045     0.100     0.300     0.000     0.000     0.000     0.000     0.000
QT      6.000 30000.000 20000.000 17000.000 12000.000  3500.000  1000.000     0.000     0.000     0.000
X1    314.630    14.000  2550.100  2650.000     0.000     0.000     0.000     0.000     0.000     0.000
GR     50.000  1530.000    49.000  1740.000    48.600  1830.000    48.000  1890.000    47.600  2050.000
GR     48.000  2145.000    48.200  2300.000    48.600  2430.000    48.900  2495.000    49.500  2550.000
GR     44.200  2550.100    45.000  2650.000    49.700  2650.100    50.000  2780.000     0.000     0.000

NC      0.030     0.045     0.045     0.000     0.000     0.000     0.000     0.000     0.000     0.000
ET      0.000     0.000     0.000     0.000     0.000     9.100     9.100     0.000  2440.000  2650.000
X1    319.760    19.000  2440.000  2615.000   510.000   510.000   510.000     0.000     0.000     0.000
GR     54.000  1660.000    51.000  1680.000    50.000  1690.000    49.000  1725.000    47.000  1750.000
GR     47.000  1855.000    48.000  1875.000    48.400  1900.000    48.000  1915.000    47.000  2310.000
GR     50.000  2335.000    51.000  2345.000    51.900  2385.000    52.300  2440.000    47.000  2515.000
GR     46.300  2550.000    46.900  2590.000    47.000  2615.000    53.000  2650.000     0.000     0.000

ET      0.000     0.000     0.000     0.000     0.000     9.100     9.100     0.000  2420.000  2610.000
X1    326.350    19.000  2420.000  2575.000   650.000   650.000   650.000     0.000     0.000     0.000
GR     56.000  1600.000    54.000  1615.000    53.000  1630.000    52.000  1680.000    51.000  1715.000
GR     50.000  1840.000    49.000  1895.000    48.000  1980.000    47.000  2010.000    47.000  2255.000
GR     48.000  2295.000    50.000  2310.000    52.000  2355.000    53.000  2360.000    53.000  2420.000
GR     48.000  2460.000    47.400  2510.000    48.000  2575.000    54.000  2610.000     0.000     0.000

ET      0.000     0.000     0.000     0.000     0.000     9.100     9.100     0.000  2365.000  2625.000
X1    332.150    27.000  2365.000  2605.000   575.000   575.000   575.000     0.000     0.000     0.000
GR     61.000  1645.000    60.000  1675.000    54.000  1715.000    52.000  1740.000    51.000  1773.000
GR     50.000  1790.000    50.000  1815.000    49.000  1840.000    48.000  1879.000    47.000  1890.000
GR     47.000  2169.000    48.000  2205.000    49.000  2245.000    50.000  2261.000    51.000  2310.000
GR     55.000  2320.000    56.000  2332.000    56.000  2365.000    52.000  2385.000    51.800  2425.000
GR     51.500  2470.000    51.000  2492.000    51.000  2514.000    52.000  2555.000    52.000  2585.000
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GR	54.000	2605.000	56.000	2625.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.045	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2320.000	2585.000
X1	336.200	15.000	2340.000	2565.000	405.000	405.000	405.000	0.000	0.000	0.000
GR	60.000	1705.000	54.000	1735.000	53.000	1820.000	52.000	1845.000	52.000	2090.000
GR	51.000	2195.000	50.000	2205.000	52.000	2225.000	52.000	2260.000	57.000	2285.000
GR	57.000	2320.000	53.000	2340.000	53.000	2510.000	53.000	2565.000	59.000	2585.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2275.000	2445.000
X1	341.600	12.000	2300.000	2435.000	535.000	535.000	535.000	0.000	0.000	0.000
GR	57.000	1570.000	56.000	1670.000	55.300	1745.000	55.300	1925.000	56.000	1970.000
GR	56.000	2070.000	59.000	2170.000	59.000	2275.000	56.000	2300.000	55.000	2385.000
GR	57.000	2435.000	59.000	2445.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2230.000	2415.000
X1	346.950	23.000	2270.000	2390.000	535.000	535.000	535.000	0.000	0.000	0.000
GR	61.000	1420.000	57.000	1450.000	56.000	1470.000	56.000	1665.000	56.500	1795.000
GR	57.000	1870.000	57.800	1920.000	57.000	2012.000	56.000	2085.000	56.000	2130.000
GR	57.000	2141.000	58.000	2190.000	60.000	2200.000	61.000	2219.000	61.000	2230.000
GR	60.000	2260.000	57.000	2270.000	55.000	2295.000	55.000	2300.000	56.000	2310.000
GR	56.000	2370.000	56.000	2390.000	63.000	2415.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2190.000	2360.000
X1	351.180	21.000	2220.000	2330.000	420.000	420.000	420.000	0.000	0.000	0.000
GR	62.000	1360.000	58.000	1390.000	57.000	1405.000	57.000	1450.000	58.000	1610.000
GR	60.000	1660.000	62.000	1685.000	62.000	1700.000	59.000	1750.000	58.000	1875.000
GR	58.000	2020.000	58.000	2090.000	59.000	2110.000	60.000	2150.000	60.000	2190.000
GR	61.000	2200.000	57.000	2220.000	57.000	2245.000	57.000	2330.000	58.000	2340.000
GR	64.000	2360.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2165.000	2420.000
X1	356.690	21.000	2165.000	2320.000	545.000	545.000	545.000	0.000	0.000	0.000
GR	64.000	1310.000	59.000	1350.000	59.000	1380.000	59.000	1410.000	56.000	1425.000
GR	56.000	1580.000	59.000	1590.000	59.000	1620.000	58.000	1660.000	59.000	1845.000
GR	58.900	1950.000	60.000	1995.000	61.700	2020.000	61.000	2030.000	61.000	2055.000
GR	62.800	2140.000	62.000	2165.000	58.000	2240.000	57.700	2290.000	58.000	2320.000
GR	65.000	2420.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2100.000	2260.000
X1	360.850	22.000	2120.000	2230.000	415.000	415.000	415.000	0.000	0.000	0.000
GR	61.000	1555.000	60.000	1565.000	59.000	1610.000	58.600	1670.000	59.000	1710.000
GR	61.000	1735.000	69.300	1780.000	58.000	1844.900	58.000	1845.000	58.000	1870.000
GR	59.000	1960.000	62.000	1995.000	62.000	2060.000	63.000	2100.000	60.000	2120.000
GR	59.000	2145.000	59.000	2150.000	55.000	2166.000	55.000	2209.000	59.000	2225.000
GR	59.000	2230.000	66.000	2260.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2060.000	2390.000
X1	365.100	15.000	2090.000	2350.000	420.000	420.000	420.000	0.000	0.000	0.000
GR	61.000	1510.000	60.000	1530.000	60.000	1760.000	69.000	1810.000	62.000	1850.000
GR	61.300	1900.000	62.000	1950.000	63.000	2060.000	60.000	2090.000	59.000	2230.000
GR	59.000	2275.000	55.000	2293.000	55.000	2332.000	60.000	2350.000	67.000	2390.000

NC	0.045	0.045	0.035	0.300	0.500	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2155.000	2370.100
X1	367.080	19.000	2055.000	2370.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	64.000	1372.000	63.000	1410.000	62.000	1500.000	61.100	1605.000	61.000	1715.000
GR	62.000	1870.000	63.000	1955.000	64.000	1995.000	64.800	2025.000	65.000	2055.000
GR	66.000	2079.000	67.000	2115.000	68.000	2155.000	60.000	2155.100	60.000	2310.000
GR	55.000	2330.000	55.000	2350.000	60.000	2370.000	70.000	2370.100	0.000	0.000
NC	0.035	0.035	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2155.000	2370.100
X1	367.180	30.000	2055.000	2370.000	10.000	10.000	10.000	0.000	0.000	0.000
GR	64.000	1372.000	63.000	1410.000	62.000	1500.000	61.100	1605.000	61.000	1715.000
GR	62.000	1870.000	63.000	1955.000	64.000	1995.000	64.800	2025.000	65.000	2055.000
GR	66.000	2079.000	67.000	2115.000	67.000	2155.000	60.000	2155.100	60.000	2200.000
GR	67.000	2200.010	67.500	2206.000	60.000	2206.010	60.000	2259.000	67.500	2259.010
GR	68.000	2265.000	60.000	2265.010	60.000	2318.000	68.000	2318.010	68.500	2324.000
GR	60.000	2324.010	55.000	2336.000	55.000	2357.000	60.000	2370.000	69.000	2370.100
BT	9.000	2115.000	67.000	67.000	2155.000	71.000	67.000	2200.010	71.250	67.000
BT	2206.000	71.250	67.500	2259.010	71.500	67.500	2265.000	71.500	68.000	2318.010
BT	72.250	68.000	2324.000	72.250	68.500	2370.100	73.000	69.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2155.000	2370.100
X1	367.980	0.000	0.000	0.000	80.000	80.000	80.000	0.000	0.000	0.000
X2	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000
NC	0.045	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2120.000	2365.100
X1	368.220	15.000	2165.000	2345.000	120.000	30.000	30.000	0.000	0.000	0.000
GR	70.000	1500.000	63.000	1730.000	62.000	1745.000	62.000	1860.000	62.000	1925.000
GR	63.000	1950.000	64.000	2010.000	65.000	2080.000	65.000	2120.000	56.000	2165.000
GR	55.000	2205.000	55.000	2220.000	55.000	2345.000	60.000	2365.000	70.000	2365.100
NC	0.045	0.045	0.045	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2055.000	2370.100
X1	369.300	19.000	2115.000	2360.000	110.000	100.000	100.000	0.000	0.000	0.000
GR	70.000	1540.000	63.000	1570.000	62.000	1590.000	62.000	1875.000	63.000	1920.000
GR	64.000	1930.000	65.000	2055.000	61.000	2085.000	55.000	2115.000	55.000	2190.000
GR	61.000	2235.000	62.000	2250.000	62.000	2290.000	60.000	2305.000	58.000	2330.000
GR	57.000	2340.000	58.000	2360.000	60.000	2370.000	70.000	2370.100	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2050.000	2355.100
X1	370.210	19.000	2110.000	2340.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	70.000	1570.000	63.000	1605.000	62.000	1620.000	62.000	1800.000	63.000	1900.000
GR	64.000	1925.000	65.000	2050.000	61.000	2070.000	55.000	2110.000	55.000	2155.000
GR	60.000	2200.000	61.000	2210.000	61.000	2255.000	64.000	2295.000	64.000	2310.000
GR	60.000	2325.000	60.000	2340.000	63.000	2355.000	70.000	2355.100	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2030.000	2340.010
X1	372.000	16.000	2100.000	2255.000	200.000	180.000	180.000	0.000	0.000	0.000
GR	70.000	1620.000	64.000	1645.000	64.000	1870.000	65.000	2030.000	64.000	2050.000
GR	55.000	2100.000	55.000	2145.000	55.000	2175.000	61.000	2210.000	61.000	2220.000
GR	57.000	2240.000	57.000	2255.000	70.000	2310.000	72.000	2325.000	72.000	2340.000
GR	75.000	2340.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	1975.000	2350.000
X1	374.350	15.000	2045.000	2245.000	205.000	190.000	190.000	0.000	0.000	0.000
GR	70.000	1805.000	64.000	1805.010	65.000	1975.000	55.000	2045.000	55.000	2065.000
GR	57.000	2100.000	58.000	2130.000	59.000	2140.000	59.000	2185.000	59.000	2200.000
GR	59.000	2245.000	65.000	2265.000	71.000	2290.000	75.000	2325.000	75.000	2350.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	1990.000	2330.000
X1	375.200	14.000	2045.000	2240.000	85.000	85.000	85.000	0.000	0.000	0.000
GR	70.000	1820.000	64.000	1820.010	65.000	1990.000	65.000	2010.000	55.000	2045.000
GR	55.000	2060.000	57.000	2075.000	57.000	2175.000	64.000	2225.000	68.000	2240.000
GR	68.000	2270.000	70.000	2285.000	70.000	2315.000	75.000	2330.000	0.000	0.000
X1	377.050	10.000	2005.000	2245.000	150.000	150.000	165.000	0.000	0.000	0.000
GR	70.000	1835.000	66.000	1835.010	66.000	1905.000	65.000	1950.000	55.000	2005.000
GR	55.000	2245.000	60.000	2265.000	60.000	2295.000	75.000	2315.000	75.000	2335.000
X1	379.380	16.000	2040.000	2235.000	230.000	230.000	230.000	0.000	0.000	0.000
GR	70.000	1810.000	67.000	1810.000	67.000	1920.000	65.000	1930.000	62.000	1940.000
GR	62.000	1985.000	61.000	2000.000	55.000	2040.000	55.000	2065.000	62.000	2120.000
GR	62.000	2160.000	58.000	2190.000	58.000	2235.000	75.000	2300.000	76.000	2320.000
GR	76.000	2340.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	380.850	15.000	2100.000	2270.000	160.000	140.000	140.000	0.000	0.000	0.000
GR	70.000	1780.000	68.000	1780.000	68.000	1890.000	68.000	1895.000	70.000	1915.000
GR	70.000	1935.000	58.000	2000.000	55.000	2100.000	55.000	2140.000	56.000	2150.000
GR	57.000	2200.000	57.000	2270.000	66.000	2290.000	66.000	2330.000	75.000	2360.000
X1	383.100	18.000	2120.000	2295.000	230.000	220.000	220.000	0.000	0.000	0.000
GR	72.000	1735.000	72.000	1815.000	70.000	1840.000	67.000	1875.000	58.000	1905.000
GR	58.000	2035.000	60.000	2065.000	60.000	2105.000	55.000	2120.000	55.000	2185.000
GR	65.000	2230.000	65.000	2245.000	60.000	2280.000	60.000	2295.000	61.000	2300.000
GR	61.000	2345.000	75.000	2395.000	77.000	2415.000	0.000	0.000	0.000	0.000
X1	385.000	19.000	2030.000	2340.000	185.000	110.000	170.000	0.000	0.000	0.000
GR	75.000	1675.000	75.000	1775.000	65.000	1830.000	65.000	1880.000	61.000	1915.000
GR	61.000	1970.000	62.000	1980.000	62.000	1990.000	61.000	2005.000	55.000	2030.000
GR	55.000	2080.000	59.000	2110.000	61.000	2125.000	61.000	2150.000	60.000	2180.000
GR	59.000	2215.000	59.000	2260.000	60.000	2340.000	78.000	2400.000	0.000	0.000
X1	386.750	21.000	2020.000	2345.000	170.000	160.000	170.000	0.000	0.000	0.000
GR	76.000	1625.000	76.700	1670.000	75.000	1715.000	75.000	1755.000	63.000	1805.000
GR	63.000	1820.000	68.000	1840.000	68.000	1900.000	59.000	1945.000	59.000	2020.000
GR	55.000	2030.000	55.000	2070.000	61.000	2100.000	61.000	2190.000	65.000	2225.000
GR	65.000	2235.000	59.000	2270.000	59.000	2345.000	70.000	2395.000	75.000	2420.000
GR	76.000	2445.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	388.650	15.000	2030.000	2350.000	190.000	190.000	190.000	0.000	0.000	0.000
GR	75.000	1710.000	66.000	1780.000	61.000	1850.000	59.000	1920.000	59.000	1950.000
GR	62.000	1970.000	62.000	2000.000	55.000	2030.000	55.000	2070.000	60.000	2090.000
GR	61.000	2140.000	61.000	2190.000	59.000	2205.000	59.000	2350.000	78.000	2435.000

X1	391.350	10.000	1890.000	2345.000	160.000	160.000	160.000	0.000	0.000	0.000
GR	76.000	1735.000	64.000	1785.000	64.000	1840.000	59.000	1890.000	55.000	2020.000
GR	55.000	2020.000	59.000	2060.000	59.000	2130.000	59.000	2345.000	78.000	2425.000
X1	392.210	14.000	1815.000	2220.000	185.000	185.000	185.000	0.000	0.000	0.000
GR	77.000	1715.000	58.000	1765.000	58.000	1805.000	55.000	1815.000	55.000	1915.000
GR	62.000	1950.000	62.000	1970.000	60.000	2044.000	60.000	2045.000	59.000	2085.000
GR	59.000	2220.000	66.000	2250.000	66.000	2340.000	77.000	2425.000	0.000	0.000
X1	394.000	14.000	1830.000	2070.000	175.000	175.000	175.000	0.000	0.000	0.000
GR	80.000	1724.900	77.000	1725.000	60.000	1785.000	60.000	1825.000	55.000	1830.000
GR	55.000	1885.000	66.000	1940.000	66.000	1960.000	63.000	2000.000	63.000	2070.000
GR	68.000	2155.000	68.000	2340.000	77.000	2400.000	77.000	2420.000	0.000	0.000
X1	395.550	13.000	1810.000	2185.000	160.000	160.000	160.000	0.000	0.000	0.000
GR	77.000	1715.000	65.000	1760.000	65.000	1805.000	55.000	1810.000	55.000	1845.000
GR	62.000	1865.000	62.000	1875.000	61.000	1935.000	59.000	1945.000	59.000	2185.000
GR	69.000	2240.000	74.000	2320.000	77.000	2360.000	0.000	0.000	0.000	0.000
X1	396.550	14.000	1790.000	2185.000	95.000	95.000	95.000	0.000	0.000	0.000
GR	77.000	1725.000	65.000	1760.000	64.000	1770.000	55.000	1790.000	55.000	1835.000
GR	59.000	1860.000	59.000	2050.000	60.000	2060.000	60.000	2185.000	65.000	2220.000
GR	66.000	2245.000	71.000	2260.000	71.000	2315.000	77.000	2380.000	0.000	0.000
NC	0.020	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	397.250	8.000	1710.000	2350.000	65.000	65.000	65.000	0.000	0.000	0.000
GR	80.000	1719.900	66.000	1720.000	63.000	1900.000	60.000	2010.000	60.000	2140.000
GR	64.000	2290.000	66.000	2350.000	80.000	2350.100	0.000	0.000	0.000	0.000
NC	0.045	0.045	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	398.150	15.000	1810.000	2155.000	85.000	85.000	85.000	0.000	0.000	0.000
GR	78.000	1720.000	71.000	1765.000	71.000	1805.000	60.000	1810.000	60.000	1905.000
GR	70.000	1965.000	70.000	1975.000	63.000	2010.000	63.000	2035.000	62.000	2155.000
GR	70.000	2190.000	70.000	2230.000	74.000	2270.000	75.000	2295.000	79.000	2370.000
X1	399.450	18.000	1775.000	2150.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	80.000	1680.000	76.000	1720.000	70.000	1740.000	70.000	1770.000	60.000	1775.000
GR	60.000	1880.000	65.000	1905.000	65.000	1915.000	63.000	1955.000	63.000	2135.000
GR	67.000	2150.000	68.000	2220.000	75.000	2250.000	73.000	2280.000	73.000	2310.000
GR	75.000	2335.000	75.000	2365.000	80.000	2370.000	0.000	0.000	0.000	0.000
X1	401.000	10.000	1775.000	2230.000	165.000	165.000	165.000	0.000	0.000	0.000
GR	80.000	1660.000	75.000	1710.000	67.000	1730.000	67.000	1760.000	60.000	1775.000
GR	60.000	2110.000	64.000	2130.000	65.000	2230.000	70.000	2265.000	80.000	2330.000
X1	402.500	10.000	1820.000	2195.000	150.000	150.000	150.000	0.000	0.000	0.000
GR	80.000	1665.000	75.000	1720.000	63.000	1780.000	62.000	1820.000	60.000	1890.000
GR	60.000	2090.000	61.000	2140.000	70.000	2195.000	70.000	2225.000	80.000	2270.000

X1	404.200	23.000	1890.000	2130.000	170.000	170.000	170.000	0.000	0.000	0.000
GR	78.000	1685.000	75.000	1710.000	66.000	1780.000	65.000	1815.000	63.000	1850.000
GR	62.000	1890.000	60.000	1900.000	60.000	1970.000	66.000	1990.000	66.000	2010.000
GR	63.000	2030.000	63.000	2045.000	69.000	2085.000	69.000	2100.000	66.000	2110.000
GR	66.000	2130.000	68.000	2140.000	73.000	2160.000	73.000	2190.000	73.000	2200.000
GR	70.000	2210.000	70.000	2230.000	80.000	2275.000	0.000	0.000	0.000	0.000
X1	405.350	23.000	1910.000	2170.000	115.000	115.000	115.000	0.000	0.000	0.000
GR	80.000	1630.000	76.000	1690.000	70.000	1730.000	67.000	1760.000	63.000	1890.000
GR	60.000	1910.000	60.000	1975.000	70.000	2015.000	70.000	2025.000	66.000	2050.000
GR	66.000	2070.000	70.000	2080.000	70.000	2095.000	66.000	2105.000	66.000	2120.000
GR	68.000	2130.000	68.000	2150.000	65.000	2160.000	65.000	2170.000	68.000	2200.000
GR	70.000	2205.000	75.000	2240.000	86.000	2310.000	0.000	0.000	0.000	0.000
X1	406.700	10.000	1775.000	2065.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	78.000	1670.000	75.000	1715.000	65.000	1775.000	63.000	1850.000	60.000	1865.000
GR	60.000	2065.000	67.000	2085.000	67.000	2195.000	80.000	2260.000	85.000	2280.000
X1	408.000	8.000	1800.000	2135.000	140.000	140.000	140.000	0.000	0.000	0.000
GR	80.000	1660.000	75.000	1660.000	65.000	1700.000	64.000	1800.000	60.000	1830.000
GR	60.000	2135.000	70.000	2180.000	80.000	2230.000	0.000	0.000	0.000	0.000
X1	409.250	6.000	1770.000	2135.000	115.000	115.000	115.000	0.000	3.000	0.000
GR	80.000	1660.000	70.000	1710.000	66.000	1770.000	60.000	1800.000	60.000	2135.000
GR	80.000	2210.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	410.500	8.000	1770.000	2130.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	80.000	1650.000	75.000	1730.000	67.000	1770.000	66.000	1815.000	65.000	1990.000
GR	65.000	2130.000	75.000	2190.000	80.000	2210.000	0.000	0.000	0.000	0.000
X1	411.250	9.000	1710.000	2085.000	75.000	75.000	75.000	0.000	0.000	0.000
GR	80.000	1650.000	68.000	1710.000	68.000	1760.000	67.000	1855.000	67.000	2015.000
GR	68.000	2085.000	70.000	2175.000	75.000	2220.000	80.000	2230.000	0.000	0.000
X1	412.250	9.000	1690.000	2140.000	105.000	105.000	105.000	0.000	0.000	0.000
GR	80.000	1645.000	75.000	1650.000	70.000	1670.000	67.000	1690.000	67.000	2140.000
GR	70.000	2160.000	75.000	2185.000	80.000	2200.000	83.000	2220.000	0.000	0.000
X1	413.250	7.000	1580.000	2170.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	75.000	1530.000	70.000	1555.000	67.000	1580.000	67.000	2170.000	70.000	2185.000
GR	75.000	2210.000	75.000	2255.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	9.100	9.100	9.100	9.100	9.100	9.100	0.000	1679.900	2230.000
X1	414.550	9.000	1680.000	2230.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	80.000	1679.900	67.000	1680.000	67.000	2230.000	70.000	2250.000	75.000	2275.000
GR	76.000	2295.000	81.000	2340.000	81.000	2380.000	84.000	2405.000	0.000	0.000
X1	416.050	7.000	1695.000	2205.000	155.000	155.000	155.000	0.000	0.000	0.000
GR	80.000	1679.900	69.000	1680.000	67.000	1695.000	67.000	1725.000	67.000	2205.000
GR	79.000	2280.000	83.000	2310.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	417.300	8.000	1725.000	2190.000	120.000	120.000	120.000	0.000	0.000	0.000
GR	82.000	1634.900	77.000	1635.000	72.000	1665.000	71.000	1685.000	70.000	1700.000
GR	67.000	1725.000	67.000	2190.000	82.000	2250.000	0.000	0.000	0.000	0.000
X1	418.450	10.000	1755.000	2155.000	120.000	120.000	120.000	0.000	0.000	0.000
GR	82.000	1655.000	77.000	1680.000	77.000	1715.000	70.000	1755.000	67.000	1755.000
GR	67.000	1790.000	68.000	1800.000	67.000	1850.000	67.000	2155.000	80.000	2245.000
X1	419.550	12.000	1820.000	2175.000	115.000	115.000	115.000	0.000	0.000	0.000
GR	85.000	1630.000	80.000	1650.000	75.000	1670.000	70.000	1690.000	70.000	1710.000
GR	75.000	1740.000	69.000	1775.000	68.000	1800.000	67.000	1820.000	67.000	2175.000
GR	75.000	2215.000	80.000	2240.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	420.650	11.000	1810.000	2085.000	110.000	110.000	110.000	0.000	0.000	0.000
GR	85.000	1695.000	80.000	1720.000	75.000	1740.000	70.000	1760.000	68.000	1785.000
GR	67.000	1810.000	67.000	2085.000	70.000	2110.000	70.000	2170.000	74.000	2210.000
GR	87.000	2265.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	422.300	6.000	1850.000	2135.000	180.000	140.000	160.000	0.000	0.000	0.000
GR	85.000	1800.000	68.000	1850.000	67.000	2000.000	67.000	2135.000	70.000	2175.000
GR	80.000	2250.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	423.650	7.000	1840.000	2150.000	170.000	120.000	140.000	0.000	0.000	0.000
GR	91.000	1655.000	91.000	1730.000	90.000	1750.000	89.000	1780.000	69.000	1840.000
GR	69.000	2150.000	85.000	2200.000	0.000	0.000	0.000	0.000	0.000	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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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


*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV=   0.100 CEHV=   0.300
*SECNO 314.630
3280 CROSS SECTION    314.63 EXTENDED      2.78 FEET

   314.63     8.58    52.78    51.38    52.78    53.29     0.51     0.00     0.00    44.20
   30000.   22145.    6378.    1477.    4340.     817.     381.       0.       0.    45.00
     0.00     5.10     7.80     3.88    0.045    0.045    0.045    0.000    44.20  1530.00
 0.003389       0.       0.       0.        0        9        0     0.00  1250.00  2780.00


FLOW DISTRIBUTION FOR SECNO=    314.63          CWSEL=     52.78

STA=    1530.    1740.    1830.    1890.    2050.    2145.    2300.    2430.    2495.    2550.    2650.    2780.
  PER Q=      9.7      5.8      4.7     14.9      8.8     13.0      9.8      4.3      3.0     21.3      4.9
   AREA=    688.8    358.2    268.8    796.8    473.1    725.4    569.4    261.9    197.5    817.2    381.2
    VEL=      4.2      4.8      5.2      5.6      5.6      5.4      5.1      4.9      4.5      7.8      3.9

*SECNO 319.760
3280 CROSS SECTION    319.76 EXTENDED      0.82 FEET

   319.76     7.52    53.82    51.18     0.00    54.33     0.51     1.04     0.00    52.30
   30000.   25568.    4044.     388.    4275.    1024.     134.      64.      13.    47.00
     0.02     5.98     3.95     2.90    0.030    0.045    0.045    0.000    46.30  1661.21
 0.001358     510.     510.     510.        2       11        0     0.00   988.79  2650.00


FLOW DISTRIBUTION FOR SECNO=    319.76          CWSEL=     53.82

STA=    1661.    1725.    1855.    1900.    2310.    2385.    2440.    2615.    2650.
  PER Q=      3.1     18.5      5.3     53.5      3.9      0.8     13.5      1.3
   AREA=    210.8    861.4    266.8   2580.2    260.9     94.5   1024.0    133.7
    VEL=      4.4      6.5      6.0      6.2      4.5      2.6      3.9      2.9

*SECNO 326.350
3280 CROSS SECTION    326.35 EXTENDED      0.69 FEET

   326.35     7.68    54.68    52.08     0.00    55.19     0.51     0.86     0.00    53.00
   30000.   25736.    3907.     357.    4325.     971.     129.     145.      28.    48.00
     0.06     5.95     4.02     2.77    0.030    0.045    0.045    0.000    47.00  1609.84
 0.001289     650.     650.     650.        2       14        0     0.00  1000.16  2610.00
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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= 326.35 CWSEL= 54.68

STA=	1610.	1840.	1895.	1980.	2010.	2255.	2295.	2355.	2420.	2575.	2610.
PER Q=	10.7	5.1	10.5	4.8	43.5	6.3	3.9	1.0	13.0	1.2	
AREA=	763.9	285.3	525.9	215.6	1883.4	287.5	251.2	112.2	971.0	129.1	
VEL=	4.2	5.3	6.0	6.6	6.9	6.6	4.7	2.6	4.0	2.8	

*SECNO 332.150

3265 DIVIDED FLOW

332.15	8.33	55.33	52.77	0.00	55.98	0.66	0.75	0.05	56.00
30000.	27757.	2235.	8.	4135.	818.	9.	214.	40.	54.00
0.08	6.71	2.73	0.91	0.030	0.045	0.045	0.000	47.00	1706.15
0.001311	575.	575.	575.	2	15	0	0.00	867.67	2618.27

FLOW DISTRIBUTION FOR SECNO= 332.15 CWSEL= 55.33

STA=	1706.	1790.	1840.	1879.	2169.	2205.	2245.	2310.	2324.	2605.	2618.
PER Q=	3.9	5.2	5.7	59.1	6.6	5.9	5.8	0.2	7.4	0.0	
AREA=	272.4	278.8	266.3	2409.3	281.8	273.1	329.8	23.9	818.4	8.8	
VEL=	4.3	5.6	6.5	7.4	7.1	6.5	5.3	2.9	2.7	0.9	

*SECNO 336.200

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

336.20	6.06	56.06	56.06	0.00	57.80	1.74	1.31	0.33	53.00
30000.	23581.	6332.	88.	2152.	688.	16.	250.	48.	53.00
0.09	10.96	9.21	5.64	0.045	0.045	0.045	0.000	50.00	1724.72
0.017524	405.	405.	405.	0	20	0	0.00	806.03	2575.19

FLOW DISTRIBUTION FOR SECNO= 336.20 CWSEL= 56.06

STA=	1725.	1735.	1820.	1845.	2090.	2195.	2205.	2225.	2260.	2280.	2340.	2565.	2575.
PER Q=	0.2	5.9	3.0	36.8	19.2	2.5	4.3	5.3	0.9	0.4	21.1	0.3	
AREA=	10.6	217.3	88.9	993.8	478.4	55.6	101.1	142.0	41.1	23.4	687.7	15.6	
VEL=	4.4	8.2	10.2	11.1	12.0	13.7	12.8	11.1	6.9	5.7	9.2	5.6	

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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 341.600
3280 CROSS SECTION    341.60 EXTENDED      4.48 FEET


3301 HV CHANGED MORE THAN HVINS

   341.60     6.48    61.48    59.71     0.00    62.19     0.72     4.29     0.10    56.00
   30000.   24216.    5632.     152.    3614.     782.      35.     295.      58.    57.00
     0.11     6.70     7.20     4.38    0.045    0.045    0.045    0.000    55.00  1570.00
 0.004573    535.     535.     535.        4       15        0     0.00   875.00  2445.00


FLOW DISTRIBUTION FOR SECNO=    341.60          CWSEL=     61.48

STA=    1570.    1670.    1745.    1925.    1970.    2070.    2170.    2275.    2300.    2435.    2445.
  PER Q=     10.5     10.5     27.9      6.3     12.7      7.4      3.5      1.8     18.8      0.5
   AREA=    497.8    437.1   1112.0    262.3    547.8    397.8    260.2     99.4    782.0     34.8
    VEL=      6.3      7.2      7.5      7.2      6.9      5.6      4.1      5.6      7.2      4.4

*SECNO 346.950
3280 CROSS SECTION    346.95 EXTENDED      2.27 FEET

   346.95     8.27    63.27    59.78     0.00    63.62     0.35     1.39     0.04    57.00
   30000.   25188.    4512.     299.    5345.     882.      94.     361.      70.    56.00
     0.15     4.71     5.11     3.17    0.045    0.045    0.045    0.000    55.00  1420.00
 0.001680    535.     535.     535.        4       19        0     0.00   995.00  2415.00


FLOW DISTRIBUTION FOR SECNO=    346.95          CWSEL=     63.27

STA=    1420.    1470.    1665.    1795.    1870.    1920.    2012.    2085.    2130.    2190.    2270.    2390.    2415.
  PER Q=      3.6     24.0     15.1      7.7      4.3      7.9      8.0      5.5      5.3      2.5     15.0      1.0
   AREA=    263.4   1417.4    912.5    488.9    293.4    539.9    494.1    327.1    357.1    251.0    882.3     94.2
    VEL=      4.1      5.1      5.0      4.7      4.4      4.4      4.8      5.1      4.5      3.0      5.1      3.2

*SECNO 351.180
3280 CROSS SECTION    351.18 EXTENDED      2.05 FEET

   351.18     7.05    64.05    61.41     0.00    64.50     0.45     0.85     0.03    57.00
   30000.   24710.    4707.     583.    4711.     776.     127.     418.      79.    57.00
     0.17     5.25     6.07     4.60    0.045    0.045    0.045    0.000    57.00  1360.00
 0.002495    420.     420.     420.        2       11        0     0.00  1000.00  2360.00
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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= 351.18 CWSEL= 64.05

STA=	1360.	1405.	1450.	1610.	1660.	1750.	1875.	2020.	2090.	2150.	2220.	2330.	2360.
PER Q=	3.5	6.4	20.2	4.1	3.4	12.0	16.0	7.7	4.7	4.3	15.7	1.9	
AREA=	219.9	317.4	1048.5	252.7	284.8	694.1	877.7	423.7	293.2	298.7	775.8	126.6	
VEL=	4.8	6.1	5.8	4.9	3.6	5.2	5.5	5.5	4.8	4.4	6.1	4.6	

*SECNO 356.690
3280 CROSS SECTION 356.69 EXTENDED 1.24 FEET

356.69	9.24	65.24	61.73	0.00	65.55	0.31	1.04	0.01	62.00
30000.	24553.	4302.	1145.	5382.	984.	374.	496.	93.	58.00
0.20	4.56	4.37	3.06	0.045	0.045	0.045	0.000	56.00	1310.00
0.001494	545.	545.	545.	2	15	0	0.00	1110.00	2420.00

FLOW DISTRIBUTION FOR SECNO= 356.69 CWSEL= 65.24

STA=	1310.	1380.	1425.	1580.	1620.	1660.	1845.	1950.	1995.	2140.	2165.	2320.	2420.
PER Q=	4.2	4.6	26.8	3.9	4.1	18.9	9.6	3.6	5.5	0.6	14.3	3.8	
AREA=	336.6	303.2	1431.8	264.5	269.5	1246.4	660.2	260.4	538.2	70.9	983.8	373.7	
VEL=	3.7	4.6	5.6	4.5	4.6	4.6	4.3	4.1	3.1	2.6	4.4	3.1	

*SECNO 360.850

3265 DIVIDED FLOW

3280 CROSS SECTION 360.85 EXTENDED 4.79 FEET

3301 HV CHANGED MORE THAN HVINS

360.85	10.79	65.79	63.74	0.00	66.71	0.93	0.98	0.18	60.00
30000.	20634.	8893.	473.	2916.	970.	99.	547.	101.	59.00
0.22	7.08	9.17	4.79	0.045	0.045	0.045	0.000	55.00	1555.00
0.004279	415.	415.	415.	2	11	0	0.00	664.88	2259.09

FLOW DISTRIBUTION FOR SECNO= 360.85 CWSEL= 65.79

STA=	1555.	1610.	1670.	1710.	1735.	1845.	1870.	1960.	1995.	2060.	2120.	2230.	2259.
PER Q=	7.8	11.0	7.4	3.4	3.9	5.5	17.8	4.0	4.3	3.7	29.6	1.6	
AREA=	335.9	419.3	279.5	144.7	236.3	195.5	655.9	185.1	246.2	217.3	970.2	98.7	
VEL=	7.0	7.9	7.9	6.9	4.9	8.5	8.1	6.5	5.2	5.1	9.2	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


*SECNO 365.100

3265 DIVIDED FLOW

3280 CROSS SECTION    365.10 EXTENDED      6.42 FEET


3301 HV CHANGED MORE THAN HVINS

   365.10    12.42    67.42    64.03     0.00    67.85     0.43     1.08     0.05    60.00
   30000.   15663.   13812.      525.   3377.     2338.     157.     594.     108.    60.00
     0.24     4.64     5.91     3.35    0.045    0.045    0.045    0.000    55.00  1510.00
 0.001722     420.     420.     420.        2       10        0     0.00   862.18  2390.00


FLOW DISTRIBUTION FOR SECNO=    365.10          CWSEL=     67.42

STA=    1510.    1530.    1760.    1801.    1850.    1900.    1950.    2060.    2090.    2350.    2390.
  PER Q=     1.9     29.6      1.7      0.7      4.2      4.2      7.1      2.6     46.0      1.7
   AREA=   138.4   1706.3    152.9     83.9    288.4    288.4    541.1    177.6   2337.9    156.7
    VEL=     4.1      5.2      3.2      2.6      4.4      4.4      4.0      4.5      5.9      3.3

CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

3265 DIVIDED FLOW

3280 CROSS SECTION    367.08 EXTENDED      3.77 FEET

   367.08    12.77    67.77    65.33     0.00    68.22     0.45     0.36     0.01    65.00
   30000.   17513.   12487.       0.   3807.     1982.       0.     621.     113.    60.00
     0.25     4.60     6.30     0.17    0.045    0.035    0.045    0.000    55.00  1372.00
 0.001893     200.     200.     200.        3       10        0     0.00   988.88  2370.08


FLOW DISTRIBUTION FOR SECNO=    367.08          CWSEL=     67.77

STA=    1372.    1410.    1500.    1605.    1715.    1870.    1955.    1995.    2025.    2055.    2370.    2370.
  PER Q=     1.9      6.9     10.6     12.6     15.8      6.5      2.2      1.1      0.8     41.6      0.0
   AREA=   162.3    474.3    653.1    739.2    971.9    448.0    170.8    101.1     86.1   1982.2      0.3
    VEL=     3.5      4.4      4.9      5.1      4.9      4.4      3.8      3.2      2.9      6.3      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 367.180

3265 DIVIDED FLOW

3280 CROSS SECTION    367.18 EXTENDED      3.79 FEET

   367.18    12.78    67.78    65.38     0.00    68.24     0.46     0.02     0.00    65.00
   30000.   18498.   11502.       0.    3819.    1838.       0.     622.     113.    60.00
     0.25     4.84     6.26     0.19    0.035    0.025    0.035    0.000    55.00  1372.00
 0.001264      10.      10.      10.        0       14        0     0.00   989.56  2370.09


FLOW DISTRIBUTION FOR SECNO=    367.18          CWSEL=     67.78

STA=    1372.    1410.    1500.    1605.    1715.    1870.    1955.    1995.    2025.    2055.    2370.    2370.
  PER Q=     2.0      7.3     11.2     13.3     16.7      6.9      2.3      1.2      0.9     38.3      0.0
   AREA=   162.9    475.9    655.0    741.2    974.7    449.5    171.5    101.6     86.6   1837.9      0.3
    VEL=     3.7      4.6      5.1      5.4      5.1      4.6      4.0      3.4      3.1      6.3      0.2

*SECNO 367.980

3265 DIVIDED FLOW

3280 CROSS SECTION    367.98 EXTENDED      3.91 FEET

   367.98    12.90    67.90    65.38     0.00    68.34     0.44     0.10     0.01    65.00
   30000.   18531.   11469.       0.    3900.    1874.       0.     633.     115.    60.00
     0.25     4.75     6.12     0.18    0.035    0.025    0.035    0.000    55.00  1372.00
 0.001185      80.      80.      80.        0       14        0     0.00   990.98  2370.09


FLOW DISTRIBUTION FOR SECNO=    367.98          CWSEL=     67.90

STA=    1372.    1410.    1500.    1605.    1715.    1870.    1955.    1995.    2025.    2055.    2370.    2370.
  PER Q=     2.1      7.3     11.2     13.3     16.7      6.9      2.3      1.2      0.9     38.2      0.0
   AREA=   167.5    486.6    667.5    754.3    993.1    459.6    176.3    105.2     90.2   1874.4      0.3
    VEL=     3.7      4.5      5.0      5.3      5.0      4.5      3.9      3.4      3.0      6.1      0.2

*SECNO 368.220
   368.22    12.89    67.89    64.70     0.00    68.58     0.69     0.11     0.12    56.00
   30000.   10837.   18042.    1121.    2616.    2300.     208.     643.     117.    55.00
     0.26     4.14     7.84     5.39    0.045    0.045    0.045    0.000    55.00  1569.39
 0.001889     120.      30.      30.        2       15        0     0.00   795.69  2365.08
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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= 368.22 CWSEL= 67.89

STA=	1569.	1730.	1745.	1860.	1925.	1950.	2010.	2080.	2120.	2165.	2345.	2365.	2365.
PER Q=	3.4	1.2	10.6	6.0	2.0	3.4	2.6	1.1	6.0	60.1	3.7	0.0	
AREA=	392.5	80.8	677.1	382.7	134.7	263.3	237.2	115.5	332.5	2299.9	207.8	0.3	
VEL=	2.6	4.4	4.7	4.7	4.4	3.8	3.2	2.9	5.4	7.8	5.4	0.2	

CCHV= 0.100 CEHV= 0.300

‡SECNO 369.300

369.30	13.33	68.33	64.79	0.00	68.78	0.45	0.18	0.02	55.00
30000.	14234.	15404.	363.	3242.	2489.	94.	657.	119.	58.00
0.26	4.39	6.19	3.87	0.045	0.045	0.045	0.000	55.00	1547.15
0.001603	110.	100.	100.	2	16	0	0.00	822.93	2370.08

FLOW DISTRIBUTION FOR SECNO= 369.30 CWSEL= 68.33

STA=	1547.	1570.	1590.	1875.	1920.	1930.	2055.	2085.	2115.	2360.	2370.	2370.
PER Q=	0.5	1.7	27.2	3.7	0.6	5.2	2.1	6.4	51.3	1.2	0.0	
AREA=	60.9	116.6	1804.5	262.4	48.3	479.0	159.9	309.9	2488.8	93.3	0.3	
VEL=	2.5	4.3	4.5	4.3	3.8	3.2	4.0	6.2	6.2	3.9	0.2	

‡SECNO 370.210

370.21	13.46	68.46	65.47	0.00	68.99	0.54	0.19	0.03	55.00
30000.	16005.	13521.	474.	3067.	2042.	105.	669.	121.	60.00
0.27	5.22	6.62	4.53	0.045	0.045	0.045	0.000	55.00	1577.72
0.002198	100.	100.	100.	2	14	0	0.00	777.36	2355.08

FLOW DISTRIBUTION FOR SECNO= 370.21 CWSEL= 68.46

STA=	1578.	1605.	1620.	1800.	1900.	1925.	2050.	2070.	2110.	2340.	2355.	2355.
PER Q=	0.7	1.5	20.8	10.1	1.9	6.4	1.7	10.2	45.1	1.6	0.0	
AREA=	74.4	89.3	1162.1	595.6	123.9	494.5	109.1	418.2	2042.3	104.3	0.2	
VEL=	3.0	5.1	5.4	5.1	4.5	3.9	4.7	7.3	6.6	4.5	0.2	

‡SECNO 372.000

372.00	13.69	68.69	66.49	0.00	69.55	0.87	0.46	0.10	55.00
30000.	11972.	16450.	1578.	2313.	1846.	289.	690.	124.	57.00
0.27	5.18	8.91	5.46	0.045	0.045	0.045	0.000	55.00	1625.48
0.002697	200.	180.	180.	2	10	0	0.00	678.96	2304.44

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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


FLOW DISTRIBUTION FOR SECNO=    372.00          CWSEL=     68.69

STA=    1625.    1645.    1870.    2030.    2050.    2100.    2255.    2304.
  PER Q=      0.5     16.9      9.9      1.2     11.4     54.8      5.3
   AREA=     45.7   1054.2    669.7     83.7    459.3   1846.3    288.9
    VEL=      3.0      4.8      4.5      4.5      7.4      8.9      5.5

*SECNO 374.350
   374.35    14.12    69.12    65.98     0.00    70.15     1.03     0.55     0.05    55.00
   30000.    8734.   20253.    1012.    1423.    2258.     178.     709.     126.    59.00
     0.28     6.14     8.97     5.70    0.045    0.045    0.045    0.000    55.00  1805.00
 0.002913     205.     190.     190.        2       15        0     0.00   477.15  2282.16


FLOW DISTRIBUTION FOR SECNO=    374.35          CWSEL=     69.12

STA=    1805.    1975.    2045.    2245.    2265.    2282.
  PER Q=     12.7     16.4     67.5      3.0      0.3
   AREA=    784.9    638.2   2258.5    142.3     35.3
    VEL=      4.8      7.7      9.0      6.4      2.8

*SECNO 375.200
   375.20    14.14    69.14    66.91     0.00    70.56     1.42     0.30     0.12    55.00
   30000.    7995.   21918.      87.    1192.    2103.      39.     716.     127.    68.00
     0.28     6.71    10.42     2.23    0.045    0.045    0.045    0.000    55.00  1820.00
 0.004215      85.      85.      85.        2       15        0     0.00   458.56  2278.56


FLOW DISTRIBUTION FOR SECNO=    375.20          CWSEL=     69.14

STA=    1820.    1990.    2010.    2045.    2240.    2270.    2279.
  PER Q=     15.4      1.5      9.7     73.1      0.3      0.0
   AREA=    789.0     82.8    320.0   2102.6     34.3      4.9
    VEL=      5.8      5.5      9.1     10.4      2.3      1.5

*SECNO 377.050
3280 CROSS SECTION    377.05 EXTENDED      0.41 FEET


3301 HV CHANGED MORE THAN HVINS

   377.05    15.41    70.41    62.50     0.00    70.92     0.52     0.27     0.09    55.00
   30000.    4123.   22819.    3057.    1102.    3699.     643.     732.     129.    55.00
     0.29     3.74     6.17     4.76    0.045    0.045    0.045    0.000    55.00  1835.00
 0.000910     150.     165.     150.        2       11        0     0.00   473.88  2308.88
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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= 377.05 CWSEL= 70.41

STA=	1835.	1905.	1950.	2005.	2245.	2265.	2295.	2309.
PER Q=	2.7	2.1	9.0	76.1	4.6	4.9	0.6	
AREA=	308.7	221.0	572.6	3698.6	258.2	312.3	72.3	
VEL=	2.6	2.9	4.7	6.2	5.4	4.8	2.6	

‡SECNO 379.380
3280 CROSS SECTION 379.38 EXTENDED 0.47 FEET

379.38	15.46	70.46	66.06	0.00	71.36	0.89	0.32	0.11	55.00
30000.	9773.	18636.	1591.	1510.	2259.	297.	757.	132.	58.00
0.30	6.47	8.25	5.35	0.045	0.045	0.045	0.000	55.00	1810.00
0.002393	230.	230.	230.	2	15	0	0.00	472.67	2282.67

FLOW DISTRIBUTION FOR SECNO= 379.38 CWSEL= 70.46

STA=	1810.	1920.	1930.	1940.	1985.	2000.	2040.	2235.	2283.
PER Q=	4.6	0.6	1.3	8.5	3.1	14.3	62.1	5.3	
AREA=	381.4	44.7	69.7	381.0	134.5	498.7	2258.7	297.2	
VEL=	3.6	4.3	5.7	6.7	7.0	8.6	8.3	5.4	

‡SECNO 380.850
3280 CROSS SECTION 380.85 EXTENDED 1.09 FEET

380.85	16.08	71.08	63.52	0.00	71.62	0.53	0.23	0.04	55.00
30000.	12081.	16312.	1608.	2338.	2515.	438.	773.	133.	57.00
0.31	5.17	6.49	3.67	0.045	0.045	0.045	0.000	55.00	1780.00
0.001063	160.	140.	140.	2	11	0	0.00	566.95	2346.95

FLOW DISTRIBUTION FOR SECNO= 380.85 CWSEL= 71.08

STA=	1780.	1890.	1895.	1915.	1935.	2000.	2100.	2270.	2290.	2330.	2347.
PER Q=	2.6	0.1	0.2	0.1	6.0	31.2	54.4	2.9	2.2	0.3	
AREA=	339.5	15.4	41.7	21.7	460.6	1458.6	2514.6	191.7	203.4	43.1	
VEL=	2.3	2.3	1.8	1.1	3.9	6.4	6.5	4.6	3.2	1.9	

‡SECNO 383.100

383.10	16.46	71.46	64.12	0.00	71.84	0.38	0.21	0.02	55.00
30000.	16014.	11030.	2956.	3180.	2170.	722.	803.	136.	60.00
0.32	5.04	5.08	4.10	0.045	0.045	0.045	0.000	55.00	1821.62
0.000835	230.	220.	220.	0	11	0	0.00	560.78	2382.40

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= 383.10 CWSEL= 71.46

STA=	1822.	1840.	1875.	1905.	2035.	2065.	2105.	2120.	2295.	2300.	2345.	2382.
PER Q=	0.0	0.7	3.6	31.5	6.4	7.4	3.7	36.8	0.9	7.2	1.8	
AREA=	13.5	104.0	269.1	1751.2	374.1	458.8	209.6	2169.9	54.9	471.2	195.8	
VEL=	0.8	2.0	4.0	5.4	5.1	4.9	5.3	5.1	4.6	4.6	2.8	

*SECNO 385.000

385.00	16.62	71.62	64.51	0.00	71.99	0.37	0.14	0.00	55.00
30000.	8531.	20802.	667.	2024.	4001.	225.	827.	138.	60.00
0.33	4.21	5.20	2.97	0.045	0.045	0.045	0.000	55.00	1793.66
0.000820	185.	170.	110.	0	14	0	0.00	585.04	2378.69

FLOW DISTRIBUTION FOR SECNO= 385.00 CWSEL= 71.62

STA=	1794.	1830.	1880.	1915.	1970.	1980.	1990.	2005.	2030.	2340.	2379.
PER Q=	0.8	3.7	4.0	8.9	1.5	1.4	2.2	6.0	69.3	2.2	
AREA=	120.1	330.4	301.3	583.4	101.1	96.1	151.6	340.2	4000.9	224.6	
VEL=	2.1	3.3	4.0	4.6	4.4	4.3	4.4	5.3	5.2	3.0	

*SECNO 386.750

386.75	16.76	71.76	65.04	0.00	72.13	0.37	0.15	0.00	59.00
30000.	8629.	20031.	1341.	1969.	3870.	370.	851.	141.	59.00
0.34	4.38	5.18	3.62	0.045	0.045	0.045	0.000	55.00	1768.53
0.000911	170.	170.	160.	0	14	0	0.00	635.24	2403.77

FLOW DISTRIBUTION FOR SECNO= 386.75 CWSEL= 71.76

STA=	1769.	1805.	1820.	1840.	1900.	1945.	2020.	2345.	2395.	2404.
PER Q=	1.4	1.9	1.4	1.8	5.0	17.4	66.8	4.4	0.0	
AREA=	159.6	131.3	125.1	225.2	371.4	956.5	3869.8	362.7	7.7	
VEL=	2.6	4.2	3.3	2.4	4.0	5.4	5.2	3.7	0.9	

*SECNO 388.650

388.65	17.02	72.02	64.10	0.00	72.28	0.26	0.13	0.01	55.00
30000.	11047.	17939.	1014.	2906.	4167.	379.	881.	144.	59.00
0.35	3.80	4.31	2.67	0.045	0.045	0.045	0.000	55.00	1733.17
0.000557	190.	190.	190.	2	11	0	0.00	675.08	2408.25

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

FLOW DISTRIBUTION FOR SECNO= 388.65 CWSEL= 72.02

STA=	1733.	1780.	1850.	1920.	1950.	1970.	2000.	2030.	2350.	2408.
PER Q=	0.8	6.5	11.5	5.6	3.0	3.6	5.9	59.8	3.4	
AREA=	141.0	596.5	841.5	390.6	230.4	300.6	405.6	4166.7	379.2	
VEL=	1.6	3.2	4.1	4.3	3.9	3.6	4.3	4.3	2.7	

*SECNO 391.350

391.35	17.12	72.12	63.39	0.00	72.36	0.24	0.08	0.00	59.00
30000.	3334.	25782.	884.	1116.	6314.	363.	909.	146.	59.00
0.36	2.99	4.08	2.44	0.045	0.045	0.045	0.000	55.00	1751.13
0.000459	160.	160.	160.	1	9	0	0.00	649.16	2400.28

FLOW DISTRIBUTION FOR SECNO= 391.35 CWSEL= 72.12

STA=	1751.	1785.	1840.	1890.	2345.	2400.
PER Q=	0.8	4.3	6.0	85.9	2.9	
AREA=	137.7	447.1	531.5	6314.1	362.9	
VEL=	1.8	2.9	3.4	4.1	2.4	

*SECNO 392.210

392.21	17.20	72.20	63.46	0.00	72.46	0.26	0.09	0.01	55.00
30000.	3887.	23509.	2604.	991.	5537.	999.	942.	149.	59.00
0.38	3.92	4.25	2.61	0.045	0.045	0.045	0.000	55.00	1727.62
0.000507	185.	185.	185.	1	8	0	0.00	660.34	2387.96

FLOW DISTRIBUTION FOR SECNO= 392.21 CWSEL= 72.20

STA=	1728.	1765.	1805.	1815.	2220.	2250.	2340.	2388.
PER Q=	2.3	8.3	2.4	78.4	3.2	4.7	0.8	
AREA=	265.5	568.2	157.1	5537.0	291.2	558.6	148.8	
VEL=	2.6	4.4	4.5	4.2	3.3	2.5	1.6	

*SECNO 394.000

394.00	17.06	72.06	67.76	0.00	72.74	0.68	0.16	0.13	55.00
30000.	5401.	18848.	5752.	812.	2632.	1364.	966.	152.	63.00
0.38	6.65	7.16	4.22	0.045	0.045	0.045	0.000	55.00	1742.43
0.001942	175.	175.	175.	2	15	0	0.00	624.64	2367.07

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= 394.00 CWSEL= 72.06

STA=	1742.	1785.	1825.	1830.	2070.	2155.	2340.	2367.
PER Q=	4.0	12.3	1.7	62.8	9.5	9.3	0.4	
AREA=	256.7	482.4	72.8	2632.1	557.7	751.3	55.0	
VEL=	4.7	7.7	6.9	7.2	5.1	3.7	2.3	

*SECNO 395.550

395.55	17.56	72.56	64.85	0.00	72.95	0.40	0.19	0.03	55.00
30000.	1636.	26418.	1946.	510.	5045.	572.	986.	154.	59.00
0.39	3.21	5.24	3.40	0.045	0.045	0.045	0.000	55.00	1731.65
0.000790	160.	160.	160.	2	11	0	0.00	565.29	2296.94

FLOW DISTRIBUTION FOR SECNO= 395.55 CWSEL= 72.56

STA=	1732.	1760.	1805.	1810.	2185.	2240.	2297.
PER Q=	0.8	4.1	0.6	88.1	6.0	0.5	
AREA=	107.1	340.1	62.8	5044.5	470.7	101.3	
VEL=	2.2	3.6	2.9	5.2	3.8	1.4	

*SECNO 396.550

396.55	17.70	72.70	64.17	0.00	73.03	0.33	0.07	0.01	55.00
30000.	1581.	26248.	2171.	432.	5507.	707.	1000.	155.	60.00
0.40	3.66	4.77	3.07	0.045	0.045	0.045	0.000	55.00	1737.58
0.000622	95.	95.	95.	0	11	0	0.00	595.71	2333.29

FLOW DISTRIBUTION FOR SECNO= 396.55 CWSEL= 72.70

STA=	1738.	1760.	1770.	1790.	2185.	2220.	2245.	2260.	2315.	2333.
PER Q=	0.6	0.9	3.8	87.5	4.6	1.8	0.4	0.4	0.0	
AREA=	86.2	81.9	263.8	5506.8	356.6	179.7	62.8	92.8	15.4	
VEL=	1.9	3.3	4.3	4.8	3.8	3.1	2.1	1.2	0.7	

*SECNO 397.250

397.25	12.71	72.71	66.59	0.00	73.05	0.34	0.02	0.00	130.00
30000.	0.	30000.	0.	0.	6433.	0.	1010.	156.	66.00
0.40	0.00	4.66	0.08	0.000	0.020	0.020	0.000	60.00	1719.95
0.000180	65.	65.	65.	2	22	0	0.00	630.10	2350.05

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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


FLOW DISTRIBUTION FOR SECNO=    397.25          CWSEL=     72.71

STA=    1720.    2350.
  PER Q=    100.0
   AREA=   6433.1
    VEL=      4.7

*SECNO 398.150

3301 HV CHANGED MORE THAN HVINS

   398.15    12.20    72.20    68.76     0.00    73.33     1.13     0.04     0.24    60.00
   30000.     245.   27983.    1772.      86.    3207.     329.    1020.     157.     62.00
     0.41     2.84     8.72     5.38    0.045    0.045    0.045    0.000    60.00  1757.27
 0.003591     85.      85.      85.        2       20        0     0.00   494.76  2252.03


FLOW DISTRIBUTION FOR SECNO=    398.15          CWSEL=     72.20

STA=    1757.    1765.    1805.    1810.    2155.    2190.    2230.    2252.
  PER Q=      0.0      0.4      0.4     93.3      4.8      1.0      0.2
   AREA=      4.6     48.1     33.5   3207.4    217.1     88.1     24.3
    VEL=      1.4      2.2      3.9      8.7      6.6      3.4      2.1

*SECNO 399.450
   399.45    12.97    72.97    68.30     0.00    73.69     0.72     0.32     0.04    60.00
   30000.     429.   27711.    1860.     144.    3979.     437.    1032.     158.     67.00
     0.41     2.98     6.96     4.26    0.045    0.045    0.045    0.000    60.00  1730.07
 0.001914    125.     125.     125.        2       19        0     0.00   511.26  2241.33


FLOW DISTRIBUTION FOR SECNO=    399.45          CWSEL=     72.97

STA=    1730.    1740.    1770.    1775.    2150.    2220.    2241.
  PER Q=      0.1      0.9      0.4     92.4      5.7      0.5
   AREA=     14.8     89.3     39.9   3979.1    383.4     53.1
    VEL=      1.8      3.0      3.4      7.0      4.5      2.6

*SECNO 401.000
   401.00    13.55    73.55    66.15     0.00    73.91     0.36     0.19     0.04    60.00
   30000.    1337.   27968.     695.     401.    5676.     253.    1052.     160.     65.00
     0.42     3.33     4.93     2.75    0.045    0.045    0.045    0.000    60.00  1713.62
 0.000770    165.     165.     165.        2       14        0     0.00   574.47  2288.09
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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


FLOW DISTRIBUTION FOR SECNO=    401.00          CWSEL=     73.55

STA=    1714.    1730.    1760.    1775.    2230.    2265.    2288.
  PER Q=      0.3      2.1      2.0     93.2      2.1      0.2
   AREA=     53.7    196.6    150.8   5676.4    211.8     41.0
    VEL=      1.9      3.2      4.0      4.9      3.0      1.3

‡SECNO 402.500
   402.50    13.61    73.61    66.51     0.00    74.08     0.47     0.13     0.03    62.00
   30000.    3192.   26498.     311.     726.    4706.     138.    1073.     162.    70.00
     0.43     4.40     5.63     2.26    0.045    0.045    0.045    0.000    60.00  1726.95
 0.000999     150.     150.     150.        2       11        0     0.00   514.29  2241.24


FLOW DISTRIBUTION FOR SECNO=    402.50          CWSEL=     73.61

STA=    1727.    1780.    1820.    2195.    2225.    2241.
  PER Q=      2.9      7.7     88.3      0.9      0.1
   AREA=    281.4    444.4   4706.1    108.3     29.3
    VEL=      3.1      5.2      5.6      2.5      1.5

‡SECNO 404.200
   404.20    13.53    73.53    69.86     0.00    74.50     0.96     0.27     0.15    62.00
   30000.    9625.   19294.    1081.    1277.    2353.     267.    1091.     164.    66.00
     0.43     7.54     8.20     4.05    0.045    0.045    0.045    0.000    60.00  1721.39
 0.002972     170.     170.     170.        2       19        0     0.00   524.52  2245.91


FLOW DISTRIBUTION FOR SECNO=    404.20          CWSEL=     73.53

STA=    1721.    1780.    1815.    1850.    1890.    2130.    2140.    2160.    2190.    2200.    2210.    2230.    2246.
  PER Q=      3.2      6.8      9.0     13.1     64.3      1.4      0.7      0.1      0.0      0.2      1.0      0.2
   AREA=    220.8    281.2    333.7    441.4   2353.5     65.4     60.7     16.1      5.4     20.4     70.7     28.1
    VEL=      4.3      7.2      8.1      8.9      8.2      6.2      3.7      1.2      1.2      2.8      4.2      2.6

‡SECNO 405.350
   405.35    14.06    74.06    70.30     0.00    74.84     0.78     0.32     0.02    60.00
   30000.   11931.   16326.    1743.    1650.    2290.     310.    1102.     166.    65.00
     0.44     7.23     7.13     5.63    0.045    0.045    0.045    0.000    60.00  1702.95
 0.002612     115.     115.     115.        2       19        0     0.00   530.44  2233.40
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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=    405.35          CWSEL=     74.06

STA=    1703.    1730.    1760.    1890.    1910.    2170.    2200.    2205.    2233.
  PER Q=      0.5      2.9     28.8      7.6     54.4      4.9      0.4      0.5
   AREA=     54.9    166.7   1177.4    251.1   2289.8    226.7     25.3     57.6
    VEL=      2.7      5.3      7.3      9.1      7.1      6.5      4.7      2.7

*SECNO 406.700
   406.70    14.53    74.53    68.23     0.00    75.06     0.53     0.20     0.03    65.00
   30000.     841.   24132.    5027.     273.    3892.    1191.    1116.     167.    60.00
     0.44     3.08     6.20     4.22    0.045    0.045    0.045    0.000    60.00  1717.80
 0.001107     125.     125.     125.        2       11        0     0.00   514.87  2232.67


FLOW DISTRIBUTION FOR SECNO=    406.70          CWSEL=     74.53

STA=    1718.    1775.    2065.    2085.    2195.    2233.
  PER Q=      2.8     80.4      3.9     11.7      1.2
   AREA=    272.7   3892.3    220.7    828.7    141.9
    VEL=      3.1      6.2      5.2      4.2      2.6

*SECNO 408.000
   408.00    14.87    74.87    66.48     0.00    75.20     0.33     0.11     0.02    64.00
   30000.    4433.   23856.    1711.    1231.    4920.     503.    1135.     169.    60.00
     0.45     3.60     4.85     3.40    0.045    0.045    0.045    0.000    60.00  1660.54
 0.000600     140.     140.     140.        2       14        0     0.00   543.79  2204.33


FLOW DISTRIBUTION FOR SECNO=    408.00          CWSEL=     74.87

STA=    1661.    1700.    1800.    2135.    2180.    2204.
  PER Q=      1.5     13.3     79.5      5.4      0.3
   AREA=    194.7   1036.5   4919.9    443.9     59.2
    VEL=      2.3      3.8      4.8      3.7      1.4

*SECNO 409.250
   409.25    11.73    74.73    69.11     0.00    75.41     0.67     0.11     0.10    69.00
   30000.     720.   28195.    1085.     231.    4192.     258.    1150.     170.    63.00
     0.46     3.11     6.73     4.20    0.045    0.045    0.045    0.000    63.00  1701.34
 0.001604     115.     115.     115.        2       18        0     0.00   477.65  2178.99
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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


FLOW DISTRIBUTION FOR SECNO=    409.25          CWSEL=     74.73

STA=    1701.    1710.    1770.    2135.    2179.
  PER Q=      0.0      2.4     94.0      3.6
   AREA=      7.5    223.9   4192.1    258.1
    VEL=      1.2      3.2      6.7      4.2

*SECNO 410.500
   410.50     9.77    74.77    71.29     0.00    75.78     1.01     0.27     0.10    67.00
   30000.     686.   27792.    1522.     151.    3362.     286.    1162.     172.    65.00
     0.46     4.55     8.27     5.32    0.045    0.045    0.045    0.000    65.00  1731.16
 0.003187     125.     125.     125.        2       11        0     0.00   457.45  2188.61


FLOW DISTRIBUTION FOR SECNO=    410.50          CWSEL=     74.77

STA=    1731.    1770.    2130.    2189.
  PER Q=      2.3     92.6      5.1
   AREA=    150.9   3361.7    286.3
    VEL=      4.5      8.3      5.3

*SECNO 411.250
   411.25     8.00    75.00    72.75     0.00    76.09     1.09     0.28     0.02    68.00
   30000.     624.   24922.    4454.     122.    2867.     652.    1169.     173.    68.00
     0.46     5.10     8.69     6.83    0.045    0.045    0.045    0.000    67.00  1675.01
 0.004600      75.      75.      75.        2       14        0     0.00   544.98  2219.99


FLOW DISTRIBUTION FOR SECNO=    411.25          CWSEL=     75.00

STA=    1675.    1710.    2085.    2175.    2220.
  PER Q=      2.1     83.1     13.3      1.5
   AREA=    122.5   2867.1    539.9    112.4
    VEL=      5.1      8.7      7.4      4.1

*SECNO 412.250
   412.25     8.73    75.73    72.03     0.00    76.47     0.75     0.35     0.03    67.00
   30000.    1123.   27695.    1183.     209.    3929.     226.    1178.     174.    67.00
     0.47     5.36     7.05     5.23    0.045    0.045    0.045    0.000    67.00  1649.27
 0.002535     105.     105.     105.        2       14        0     0.00   537.92  2187.19
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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=    412.25          CWSEL=     75.73

STA=    1649.    1670.    1690.    2140.    2160.    2185.    2187.
  PER Q=      0.8      3.0     92.3      3.0      1.0      0.0
   AREA=     64.9    144.6   3928.7    144.6     80.8      0.8
    VEL=      3.5      6.2      7.0      6.2      3.6      0.8

*SECNO 413.250
3280 CROSS SECTION    413.25 EXTENDED      1.29 FEET

   413.25     9.29    76.29    71.25     0.00    76.68     0.39     0.17     0.04    67.00
   30000.    1135.   28001.     865.     289.    5480.     270.    1190.     175.    67.00
     0.47     3.92     5.11     3.21    0.045    0.045    0.045    0.000    67.00  1530.00
 0.001226     100.     100.     100.        2       11        0     0.00   725.00  2255.00


FLOW DISTRIBUTION FOR SECNO=    413.25          CWSEL=     76.29

STA=    1530.    1555.    1580.    2170.    2185.    2210.    2255.
  PER Q=      0.8      2.9     93.3      1.7      0.9      0.3
   AREA=     94.7    194.7   5480.4    116.8     94.7     58.0
    VEL=      2.7      4.5      5.1      4.5      2.8      1.3

*SECNO 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=     550.100
   414.55     9.37    76.37    71.51     0.00    76.90     0.53     0.17     0.04    67.00
   30000.       0.   30000.       0.       0.    5153.       0.    1206.     177. 100000.00
     0.48     0.14     5.82     0.00    0.045    0.045    0.000    0.000    67.00  1679.93
 0.001609     125.     125.     125.        2       11        0     0.00   550.07  2230.00


FLOW DISTRIBUTION FOR SECNO=    414.55          CWSEL=     76.37

STA=    1680.    1680.    2230.
  PER Q=      0.0    100.0
   AREA=      0.3   5153.1
    VEL=      0.1      5.8

*SECNO 416.050
   416.05     9.63    76.63    71.64     0.00    77.14     0.50     0.24     0.00    67.00
   30000.     527.   28424.    1048.     130.    4913.     290.    1225.     179.    67.00
     0.49     4.06     5.79     3.61    0.045    0.045    0.045    0.000    67.00  1679.93
 0.001497     155.     155.     155.        2        8        0     0.00   585.28  2265.21
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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=    416.05          CWSEL=     76.63

STA=    1680.    1695.    2205.    2265.
  PER Q=      1.8     94.7      3.5
   AREA=    129.8   4913.5    290.1
    VEL=      4.1      5.8      3.6

*SECNO 417.300
   417.30     9.80    76.80    71.97     0.00    77.33     0.53     0.18     0.01    67.00
   30000.    2104.   27188.     708.     478.    4562.     193.    1240.     181.    67.00
     0.49     4.40     5.96     3.68    0.045    0.045    0.045    0.000    67.00  1636.13
 0.001550     120.     120.     120.        1       11        0     0.00   593.11  2229.25


FLOW DISTRIBUTION FOR SECNO=    417.30          CWSEL=     76.80

STA=    1636.    1665.    1685.    1700.    1725.    2190.    2229.
  PER Q=      0.5      1.4      1.4      3.7     90.6      2.4
   AREA=     69.4    106.2     94.7    207.8   4562.3    192.5
    VEL=      2.3      4.0      4.4      5.3      6.0      3.7

*SECNO 418.450
   418.45     9.86    76.86    72.59     0.00    77.62     0.76     0.22     0.07    70.00
   30000.     476.   28002.    1522.     134.    3914.     337.    1253.     182.    67.00
     0.50     3.54     7.15     4.52    0.045    0.045    0.045    0.000    67.00  1715.80
 0.002265     120.     120.     120.        2       11        0     0.00   507.46  2223.26


FLOW DISTRIBUTION FOR SECNO=    418.45          CWSEL=     76.86

STA=    1716.    1755.    2155.    2223.
  PER Q=      1.6     93.3      5.1
   AREA=    134.5   3914.0    336.5
    VEL=      3.5      7.2      4.5

*SECNO 419.550
   419.55    10.26    77.26    72.65     0.00    77.87     0.61     0.23     0.02    67.00
   30000.    4979.   23839.    1183.     992.    3642.     263.    1265.     184.    67.00
     0.50     5.02     6.54     4.49    0.045    0.045    0.045    0.000    67.00  1660.96
 0.001762     115.     115.     115.        2       11        0     0.00   565.34  2226.30
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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= 419.55 CWSEL= 77.26

STA=	1661.	1670.	1690.	1710.	1740.	1775.	1800.	1820.	2175.	2215.	2226.
PER Q=	0.1	1.2	2.5	1.8	2.5	4.3	4.1	79.5	3.9	0.1	
AREA=	10.2	95.2	145.2	142.8	184.1	219.0	195.2	3642.3	250.4	12.8	
VEL=	1.5	3.8	5.2	3.9	4.2	5.9	6.3	6.5	4.6	1.5	

*SECNO 420.650

420.65	10.36	77.36	73.28	0.00	78.13	0.77	0.22	0.05	67.00
30000.	3573.	21245.	5182.	564.	2849.	901.	1277.	185.	67.00
0.51	6.34	7.46	5.75	0.045	0.045	0.045	0.000	67.00	1730.56
0.002257	110.	110.	110.	2	14	0	0.00	493.66	2224.22

FLOW DISTRIBUTION FOR SECNO= 420.65 CWSEL= 77.36

STA=	1731.	1740.	1760.	1785.	1810.	2085.	2110.	2170.	2210.	2224.
PER Q=	0.1	1.4	4.5	5.9	70.8	4.9	8.7	3.4	0.2	
AREA=	11.1	97.2	209.0	246.5	2849.1	221.5	441.6	214.4	23.9	
VEL=	1.7	4.4	6.4	7.2	7.5	6.7	5.9	4.8	2.2	

*SECNO 422.300

422.30	10.55	77.55	73.82	0.00	78.65	1.09	0.42	0.10	68.00
30000.	674.	25493.	3833.	134.	2933.	576.	1291.	187.	67.00
0.51	5.02	8.69	6.65	0.045	0.045	0.045	0.000	67.00	1821.90
0.003096	180.	160.	140.	2	14	0	0.00	409.74	2231.65

FLOW DISTRIBUTION FOR SECNO= 422.30 CWSEL= 77.55

STA=	1822.	1850.	2135.	2175.	2232.
PER Q=	2.2	85.0	9.6	3.2	
AREA=	134.2	2932.6	362.1	213.9	
VEL=	5.0	8.7	8.0	4.4	

*SECNO 423.650

3301 HV CHANGED MORE THAN HVINS

423.65	8.72	77.72	75.49	0.00	79.39	1.67	0.57	0.17	69.00
30000.	731.	28505.	764.	114.	2703.	119.	1302.	188.	69.00
0.52	6.41	10.55	6.43	0.045	0.045	0.045	0.000	69.00	1813.84
0.005683	170.	140.	120.	2	14	0	0.00	363.40	2177.25

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

FLOW DISTRIBUTION FOR SECNO= 423.65 CWSEL= 77.72

STA=	1814.	1840.	2150. 2177.
PER Q=	2.4	95.0	2.5
AREA=	114.0	2702.9	118.8
VEL=	6.4	10.5	6.4

THIS RUN EXECUTED: Thu 22-JAN-1987 10:52:17.59

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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T1      INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2      EA # 1192.2:  SCOTTSDALE LAKES GOLF COURSE:  USCE'S HIGH "n" VALUES
T3      DESIGN CONDITIONS(5A )              (1192D5A)
```

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	3.	0.	0.	0.000000	-1.00	0.0	0.	0.000	0.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

```
   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=   0.100 CEHV=   0.300
*SECNO 314.630
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
3280 CROSS SECTION    314.63 EXTENDED      0.63 FEET

3720 CRITICAL DEPTH ASSUMED
   314.63     6.43    50.63    50.63     0.00    51.69     1.05     0.00     0.00    44.20
   20000.   12809.    6894.     298.    2150.     603.     102.       0.       0.    45.00
     0.00     5.96    11.44     2.92    0.045    0.045    0.045    0.000    44.20  1530.00
 0.010919       0.       0.       0.        0       16        0     0.00  1250.00  2780.00


*SECNO 319.760

3301 HV CHANGED MORE THAN HVINS

   319.76     6.46    52.76     0.00     0.00    53.11     0.35     1.35     0.07    52.30
   20000.   17090.    2691.     219.    3458.     840.      97.      42.      13.    47.00
     0.03     4.94     3.20     2.26    0.030    0.045    0.045    0.000    46.30  1668.23
 0.001165     510.     510.     510.        4        0        0     0.00   980.39  2648.63


*SECNO 326.350
   326.35     6.51    53.51     0.00     0.00    53.88     0.37     0.76     0.01    53.00
   20000.   17170.    2635.     195.    3377.     789.      89.     107.      28.    48.00
     0.07     5.08     3.34     2.20    0.030    0.045    0.045    0.000    47.00  1622.35
 0.001173     650.     650.     650.        3        0        0     0.00   984.79  2607.14


*SECNO 332.150

3265 DIVIDED FLOW

   332.15     7.10    54.10     0.00     0.00    54.57     0.46     0.66     0.03    56.00
   20000.   18965.    1035.       0.    3391.     533.       0.     161.      40.    54.00
     0.10     5.59     1.94     0.01    0.030    0.045    0.045    0.000    47.00  1714.30
 0.001134     575.     575.     575.        2        0        0     0.00   835.04  2606.05


*SECNO 336.200
```

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

3301 HV CHANGED MORE THAN HVINS

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

336.20	5.17	55.17	55.17	0.00	56.56	1.38	1.19	0.28	53.00
20000.	16226.	3737.	37.	1653.	489.	8.	189.	47.	53.00
0.11	9.82	7.65	4.68	0.045	0.045	0.045	0.000	50.00	1729.14
0.019085	405.	405.	405.	20	19	0	0.00	789.81	2572.24

*SECNO 341.600
3280 CROSS SECTION 341.60 EXTENDED 3.39 FEET

3301 HV CHANGED MORE THAN HVINS

341.60	5.39	60.39	0.00	0.00	60.91	0.52	4.27	0.09	56.00
20000.	16027.	3888.	85.	2822.	636.	24.	224.	58.	57.00
0.14	5.68	6.12	3.53	0.045	0.045	0.045	0.000	55.00	1570.00
0.004352	535.	535.	535.	5	0	0	0.00	875.00	2445.00

*SECNO 346.950
3280 CROSS SECTION 346.95 EXTENDED 0.98 FEET

346.95	6.98	61.98	0.00	0.00	62.23	0.25	1.29	0.03	57.00
20000.	16698.	3134.	168.	4253.	728.	64.	276.	69.	56.00
0.17	3.93	4.30	2.62	0.045	0.045	0.045	0.000	55.00	1420.00
0.001537	535.	535.	535.	4	0	0	0.00	991.37	2411.37

*SECNO 351.180
3280 CROSS SECTION 351.18 EXTENDED 0.74 FEET

351.18	5.74	62.74	0.00	0.00	63.08	0.34	0.82	0.03	57.00
20000.	16228.	3398.	373.	3582.	631.	90.	321.	79.	57.00
0.20	4.53	5.38	4.15	0.045	0.045	0.045	0.000	57.00	1360.00
0.002584	420.	420.	420.	2	0	0	0.00	995.80	2355.80

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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 356.690
   356.69     7.89     63.89     0.00      0.00     64.12     0.23      1.02      0.01     62.00
   20000.   16543.     2824.     633.     4227.      775.     248.      381.      92.      58.00
     0.24     3.91      3.65     2.56     0.045     0.045    0.045     0.000    56.00   1310.90
 0.001428    545.      545.     545.        2         0        0      0.00  1093.20   2404.10


*SECNO 360.850

3265 DIVIDED FLOW

3280 CROSS SECTION    360.85 EXTENDED      3.50 FEET

   360.85     9.50     64.50     0.00      0.00     65.17     0.67      0.92      0.13     60.00
   20000.   13230.     6513.     257.     2246.      828.      65.      421.     100.      59.00
     0.25     5.89      7.86     3.97     0.045     0.045    0.045     0.000    55.00   1555.00
 0.003890    415.      415.     415.        2         0        0      0.00   644.93   2253.56


*SECNO 365.100

3265 DIVIDED FLOW

3280 CROSS SECTION    365.10 EXTENDED      4.90 FEET

   365.10    10.90     65.90     0.00      0.00     66.22     0.32      1.02      0.04     60.00
   20000.    9792.     9936.     272.     2538.     1944.     100.      458.     107.      60.00
     0.28     3.86      5.11     2.73     0.045     0.045    0.045     0.000    55.00   1510.00
 0.001649    420.      420.     420.        2         0        0      0.00   838.83   2383.73


CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

3265 DIVIDED FLOW

3280 CROSS SECTION    367.08 EXTENDED      2.22 FEET

   367.08    11.21     66.21     0.00      0.00     66.62     0.40      0.35      0.04     65.00
   20000.   10383.     9617.       0.     2745.     1554.       0.      479.     111.      60.00
     0.29     3.78      6.19     0.14     0.045     0.035    0.045     0.000    55.00   1372.00
 0.001900    200.      200.     200.        2         0        0      0.00   929.80   2370.06
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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 367.180

3265 DIVIDED FLOW

3280 CROSS SECTION    367.18 EXTENDED      2.23 FEET

   367.18    11.22     66.22      0.00      0.00     66.64      0.42      0.02      0.01     65.00
   20000.    11033.    8967.      0.        2753.    1412.      0.        479.      111.     60.00
     0.29     4.01      6.35      0.16      0.035    0.025     0.035     0.000     55.00   1372.00
 0.001285     10.       10.       10.        1        0         0        0.00     912.26   2370.07


*SECNO 367.980

3265 DIVIDED FLOW

3280 CROSS SECTION    367.98 EXTENDED      2.35 FEET

   367.98    11.35     66.35      0.00      0.00     66.75      0.39      0.10      0.01     65.00
   20000.    11165.    8835.      0.        2836.    1440.      0.        487.      113.     60.00
     0.30     3.94      6.13      0.16      0.035    0.025     0.035     0.000     55.00   1372.00
 0.001198     80.       80.       80.        0        0         0        0.00     916.65   2370.07


*SECNO 368.220
   368.22    11.38     66.38      0.00      0.00     66.91      0.53      0.09      0.07     56.00
   20000.    5622.     13550.     829.      1756.    2029.      178.      495.      115.     55.00
     0.30     3.20      6.68      4.66      0.045    0.045     0.045     0.000     55.00   1618.92
 0.001619     120.      30.       30.        2        0         0        0.00     746.14   2365.06


CCHV=   0.100 CEHV=   0.300
*SECNO 369.300
   369.30    11.75     66.75      0.00      0.00     67.09      0.34      0.16      0.02     55.00
   20000.    8400.     11324.     275.      2349.    2101.      78.       505.      117.     58.00
     0.31     3.58      5.39      3.54      0.045    0.045     0.045     0.000     55.00   1553.93
 0.001523     110.      100.      100.       2        0         0        0.00     816.14   2370.07


*SECNO 370.210
   370.21    11.88     66.88      0.00      0.00     67.29      0.41      0.18      0.02     55.00
   20000.    9874.     9799.      327.      2235.    1680.      81.       515.      119.     60.00
     0.31     4.42      5.83      4.04      0.045    0.045     0.045     0.000     55.00   1585.60
 0.002213     100.      100.      100.       2        0         0        0.00     769.46   2355.06
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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 372.000
   372.00    12.12     67.12      0.00      0.00     67.82      0.70      0.44      0.08     55.00
   20000.    6426.    12537.     1037.     1577.     1604.      217.      531.      122.     57.00
     0.32     4.07      7.81      4.78     0.045     0.045     0.045     0.000     55.00   1631.98
 0.002501     200.      180.      180.         2         0         0      0.00    665.86   2297.84


*SECNO 374.350
   374.35    12.59     67.59      0.00      0.00     68.30      0.70      0.47      0.00     55.00
   20000.    5051.    14372.      577.     1055.     1952.      126.      546.      124.     59.00
     0.33     4.79      7.36      4.59     0.045     0.045     0.045     0.000     55.00   1805.00
 0.002386     205.      190.      190.         0         0         0      0.00    470.76   2275.77


*SECNO 375.200
   375.20    12.63     67.63      0.00      0.00     68.63      1.00      0.24      0.09     55.00
   20000.    4369.    15631.        0.      853.     1809.        0.      551.      125.     68.00
     0.33     5.12      8.64      0.00     0.045     0.045     0.000     0.000     55.00   1820.00
 0.003506      85.       85.       85.         2         0         0      0.00    418.62   2238.63


*SECNO 377.050

3301 HV CHANGED MORE THAN HVINS

   377.05    13.58     68.58      0.00      0.00     68.91      0.32      0.21      0.07     55.00
   20000.    2206.    15854.     1940.      791.     3259.      528.      565.      127.     55.00
     0.34     2.79      4.86      3.67     0.045     0.045     0.045     0.000     55.00   1835.00
 0.000669     150.      165.      150.         2         0         0      0.00    471.44   2306.44


*SECNO 379.380
   379.38    13.61     68.61      0.00      0.00     69.25      0.64      0.25      0.09     55.00
   20000.    5942.    13085.      973.     1084.     1898.      215.      585.      129.     58.00
     0.35     5.48      6.90      4.51     0.045     0.045     0.045     0.000     55.00   1810.00
 0.002109     230.      230.      230.         2         0         0      0.00    465.59   2275.59


*SECNO 380.850

3265 DIVIDED FLOW

   380.85    14.09     69.09      0.00      0.00     69.46      0.37      0.19      0.03     55.00
   20000.    7706.    11489.      806.     1724.     2176.      291.      598.      131.     57.00
     0.36     4.47      5.28      2.76     0.045     0.045     0.045     0.000     55.00   1780.00
 0.000854     160.      140.      140.         2         0         0      0.00    526.31   2340.31
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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 383.100

383.10	14.39	69.39	0.00	0.00	69.65	0.26	0.17	0.01	55.00
20000.	10757.	7437.	1805.	2587.	1806.	548.	621.	134.	60.00
0.38	4.16	4.12	3.30	0.045	0.045	0.045	0.000	55.00	1847.09
0.000700	230.	220.	220.	2	0	0	0.00	527.88	2374.97

*SECNO 385.000

385.00	14.52	69.52	0.00	0.00	69.77	0.25	0.12	0.00	55.00
20000.	5256.	14380.	364.	1541.	3351.	151.	641.	136.	60.00
0.39	3.41	4.29	2.41	0.045	0.045	0.045	0.000	55.00	1805.18
0.000708	185.	170.	110.	0	0	0	0.00	566.53	2371.71

*SECNO 386.750

386.75	14.64	69.64	0.00	0.00	69.91	0.27	0.13	0.00	59.00
20000.	5414.	13849.	736.	1445.	3181.	257.	660.	138.	59.00
0.40	3.75	4.35	2.87	0.045	0.045	0.045	0.000	55.00	1777.36
0.000837	170.	170.	160.	0	0	0	0.00	615.98	2393.34

*SECNO 388.650

388.65	14.86	69.86	0.00	0.00	70.03	0.18	0.12	0.01	55.00
20000.	7113.	12307.	580.	2282.	3474.	264.	684.	141.	59.00
0.41	3.12	3.54	2.20	0.045	0.045	0.045	0.000	55.00	1750.00
0.000480	190.	190.	190.	2	0	0	0.00	648.57	2398.57

*SECNO 391.350

391.35	14.94	69.94	0.00	0.00	70.10	0.16	0.07	0.00	59.00
20000.	1908.	17598.	494.	824.	5324.	253.	707.	143.	59.00
0.43	2.32	3.31	1.96	0.045	0.045	0.045	0.000	55.00	1760.19
0.000377	160.	160.	160.	1	0	0	0.00	630.92	2391.12

*SECNO 392.210

392.21	15.01	70.01	0.00	0.00	70.18	0.18	0.07	0.01	55.00
20000.	2634.	16099.	1268.	806.	4649.	649.	733.	146.	59.00
0.44	3.27	3.46	1.95	0.045	0.045	0.045	0.000	55.00	1733.38
0.000425	185.	185.	185.	1	0	0	0.00	637.64	2371.02

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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 394.000
   394.00    14.86     69.86     0.00      0.00      70.45     0.59      0.14      0.13      55.00
   20000.    3941.     13723.    2337.     628.      2103.     726.      753.      148.      63.00
     0.45    6.28      6.52      3.22      0.045     0.045     0.045     0.000     55.00   1750.21
 0.002174    175.      175.      175.      2         0         0         0.00    602.18   2352.39


*SECNO 395.550
   395.55    15.39     70.39     0.00      0.00      70.66     0.27      0.18      0.03      55.00
   20000.    848.      18120.    1032.     349.      4232.     367.      768.      151.      59.00
     0.46    2.43      4.28      2.81      0.045     0.045     0.045     0.000     55.00   1739.78
 0.000667    160.      160.      160.      2         0         0         0.00    522.48   2262.26


*SECNO 396.550
   396.55    15.50     70.50     0.00      0.00      70.72     0.22      0.06      0.00      55.00
   20000.    973.      17888.    1140.     324.      4643.     435.      779.      152.      60.00
     0.47    3.00      3.85      2.62      0.045     0.045     0.045     0.000     55.00   1743.96
 0.000510    95.       95.       95.       2         0         0         0.00    514.54   2258.50


*SECNO 397.250
   397.25    10.50     70.50     0.00      0.00      70.75     0.24      0.02      0.01      130.00
   20000.    0.        20000.    0.        0.        5041.     0.        787.      153.      66.00
     0.47    0.00      3.97      0.01      0.000     0.020     0.020     0.000     60.00   1719.97
 0.000180    65.       65.       65.       2         0         0         0.00    630.06   2350.03


*SECNO 398.150

3301 HV CHANGED MORE THAN HVINS

   398.15    10.08     70.08     0.00      0.00      70.99     0.91      0.04      0.20      60.00
   20000.    79.       19171.    750.      23.       2476.     146.      795.      154.      62.00
     0.48    3.41      7.74      5.13      0.045     0.045     0.045     0.000     60.00   1805.42
 0.003996    85.       85.       85.       2         0         0         0.00    425.40   2230.82


*SECNO 399.450
   399.45    10.81     70.81     0.00      0.00      71.36     0.55      0.34      0.04      60.00
   20000.    112.      19105.    782.      55.       3169.     249.      803.      155.      67.00
     0.48    2.05      6.03      3.14      0.045     0.045     0.045     0.000     60.00   1737.28
 0.001944    125.      125.      125.      2         0         0         0.00    494.80   2232.07
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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 401.000
   401.00    11.32     71.32     0.00      0.00      71.57     0.25      0.18      0.03      60.00
   20000.    703.      19013.    284.      270.      4656.     139.      820.      157.      65.00
     0.49    2.61      4.08      2.04      0.045     0.045     0.045     0.000     60.00   1719.22
 0.000689    165.      165.      165.      1         0         0         0.00    554.30   2273.52


*SECNO 402.500
   402.50    11.38     71.38     0.00      0.00      71.71     0.32      0.12      0.02      62.00
   20000.    1940.     18006.    54.       531.      3871.     46.       836.      159.      70.00
     0.50    3.65      4.65      1.18      0.045     0.045     0.045     0.000     60.00   1738.08
 0.000885    150.      150.      150.      2         0         0         0.00    493.14   2231.23


*SECNO 404.200

3265 DIVIDED FLOW

   404.20    11.32     71.32     0.00      0.00      72.11     0.79      0.26      0.14      62.00
   20000.    6353.     13304.    343.      923.      1822.     98.       850.      161.      66.00
     0.51    6.88      7.30      3.48      0.045     0.045     0.045     0.000     60.00   1738.62
 0.003318    170.      170.      170.      2         0         0         0.00    445.00   2235.94


*SECNO 405.350
   405.35    11.84     71.84     0.00      0.00      72.49     0.65      0.37      0.01      60.00
   20000.    8091.     10943.    965.      1208.     1714.     186.      858.      162.      65.00
     0.52    6.70      6.38      5.18      0.045     0.045     0.045     0.000     60.00   1717.72
 0.003081    115.      115.      115.      2         0         0         0.00    500.18   2217.90


*SECNO 406.700
   406.70    12.34     72.34     0.00      0.00      72.72     0.38      0.20      0.03      65.00
   20000.    394.      16860.    2746.     162.      3256.     836.      869.      163.      60.00
     0.52    2.44      5.18      3.29      0.045     0.045     0.045     0.000     60.00   1730.96
 0.000979    125.      125.      125.      2         0         0         0.00    490.75   2221.70


*SECNO 408.000
   408.00    12.61     72.61     0.00      0.00      72.83     0.22      0.09      0.02      64.00
   20000.    2611.     16416.    974.      928.      4166.     360.      884.      165.      60.00
     0.53    2.81      3.94      2.71      0.045     0.045     0.045     0.000     60.00   1669.54
 0.000494    140.      140.      140.      1         0         0         0.00    523.54   2193.08
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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 409.250
   409.25     9.51     72.51      0.00      0.00     73.00      0.49      0.09      0.08     69.00
   20000.     173.    19222.     605.       92.     3382.     170.      896.      166.      63.00
     0.54     1.87      5.68      3.57     0.045     0.045     0.045     0.000     63.00   1717.33
 0.001526     115.      115.      115.        2         0         0      0.00    453.34   2170.67


*SECNO 410.500
   410.50     7.57     72.57      0.00      0.00     73.38      0.81      0.28      0.10     67.00
   20000.     300.    18881.     819.       77.     2569.     172.      906.      167.      65.00
     0.54     3.87      7.35      4.77     0.045     0.045     0.045     0.000     65.00   1742.17
 0.003606     125.      125.      125.        2         0         0      0.00    433.23   2175.40


*SECNO 411.250
   411.25     5.76     72.76      0.00      0.00     73.82      1.07      0.37      0.08     68.00
   20000.     277.    17336.    2388.       57.     2027.     373.      910.      168.      68.00
     0.55     4.88      8.55      6.41     0.045     0.045     0.045     0.000     67.00   1686.21
 0.007070      75.       75.       75.         0         0         0      0.00    513.62   2199.83


*SECNO 412.250
   412.25     6.73     73.73      0.00      0.00     74.31      0.58      0.44      0.05     67.00
   20000.     615.    18751.     634.      133.     3030.     140.      917.      169.      67.00
     0.55     4.64      6.19      4.54     0.045     0.045     0.045     0.000     67.00   1655.07
 0.002761     105.      105.      105.        2         0         0      0.00    523.60   2178.67


*SECNO 413.250
   413.25     7.22     74.22      0.00      0.00     74.52      0.30      0.18      0.03     67.00
   20000.     629.    18962.     409.      188.     4261.     130.      926.      171.      67.00
     0.56     3.35      4.45      3.14     0.045     0.045     0.045     0.000     67.00   1533.89
 0.001300     100.      100.      100.         0         0         0      0.00    672.23   2206.11


*SECNO 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=     550.100
   414.55     7.34     74.34      0.00     76.37     74.72      0.38      0.18      0.02     67.00
   20000.       0.    20000.        0.        0.     4039.       0.      938.      173.  100000.00
     0.56     0.12      4.95      0.00     0.045     0.045     0.000     0.000     67.00   1679.94
 0.001603     125.      125.      125.        2         0         0      0.00    550.06   2230.00
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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 416.050
  416.05     7.60     74.60      0.00     76.63     74.96      0.37      0.24      0.00     67.00
  20000.     358.     19087.     555.      99.      3875.     180.      953.      175.      67.00
    0.57     3.61      4.93      3.08     0.045     0.045     0.045     0.000     67.00   1679.95
0.001490     155.      155.      155.       2         0         0       0.00    572.54   2252.48


*SECNO 417.300
  417.30     7.76     74.76      0.00     76.80     75.15      0.39      0.18      0.01     67.00
  20000.    1136.     18482.     381.      310.     3615.     121.      964.      176.      67.00
    0.58     3.67      5.11      3.16     0.045     0.045     0.045     0.000     67.00   1648.36
0.001556     120.      120.      120.       1         0         0       0.00    572.74   2221.10


*SECNO 418.450
  418.45     7.87     74.87      0.00     76.86     75.43      0.56      0.22      0.05     70.00
  20000.     189.     18985.     826.      68.      3117.     214.      975.      178.      67.00
    0.58     2.79      6.09      3.85     0.045     0.045     0.045     0.000     67.00   1727.18
0.002223     120.      120.      120.       2         0         0       0.00    482.30   2209.48


*SECNO 419.550
  419.55     8.20     75.20      0.00     77.26     75.66      0.46      0.23      0.01     67.00
  20000.    2812.     16583.     605.      673.     2912.     168.      984.      179.      67.00
    0.59     4.18      5.69      3.60     0.045     0.045     0.045     0.000     67.00   1669.19
0.001797     115.      115.      115.       2         0         0       0.00    546.83   2216.02


*SECNO 420.650
  420.65     8.34     75.34      0.00     77.36     75.92      0.58      0.22      0.04     67.00
  20000.    2238.     14794.    2968.      412.     2294.     629.      993.      180.      67.00
    0.60     5.44      6.45      4.72     0.045     0.045     0.045     0.000     67.00   1738.64
0.002255     110.      110.      110.       2         0         0       0.00    477.03   2215.67


*SECNO 422.300
  422.30     8.60     75.60      0.00     77.55     76.39      0.78      0.40      0.06     68.00
  20000.     355.     17370.    2276.       85.     2377.     402.     1004.      182.      67.00
    0.60     4.17      7.31      5.66     0.045     0.045     0.045     0.000     67.00   1827.64
0.002894     180.      160.      140.       2         0         0       0.00    389.39   2217.03
```

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 423.650

423.65	6.83	75.83	0.00	77.72	77.08	1.25	0.55	0.14	69.00
20000.	386.	19210.	403.	70.	2118.	73.	1012.	183.	69.00
0.61	5.52	9.07	5.53	0.045	0.045	0.045	0.000	69.00	1819.50
0.005814	170.	140.	120.	2	0	0	0.00	351.86	2171.36

THIS RUN EXECUTED: Thu 22-JAN-1987 10:54:06.62

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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T1 INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2 EA # 1192.2: SCOTTSDALE LAKES GOLF COURSE: USCE'S HIGH "n" VALUES
T3 DESIGN CONDITIONS(5A) (1192D5A)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	4.	0.	0.	0.000000	-1.00	0.0	0.	0.000	0.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

```
   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=   0.100 CEHV=   0.300
*SECNO 314.630
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
3280 CROSS SECTION    314.63 EXTENDED      0.39 FEET

3720 CRITICAL DEPTH ASSUMED
   314.63     6.19    50.39    50.39     0.00    51.39     0.99     0.00     0.00    44.20
   17000.   10481.    6359.     161.    1907.     579.      71.       0.       0.    45.00
     0.00     5.50    10.98     2.26    0.045    0.045    0.045    0.000    44.20  1530.00
 0.010628       0.       0.       0.        0       16        0     0.00  1250.00  2780.00


*SECNO 319.760

3301 HV CHANGED MORE THAN HVINS

   319.76     6.12    52.42     0.00     0.00    52.71     0.29     1.26     0.07    52.30
   17000.   14542.    2280.     178.    3193.     780.      86.      39.      13.    47.00
     0.03     4.55     2.92     2.08    0.030    0.045    0.045    0.000    46.30  1670.52
 0.001072     510.     510.     510.        4        0        0     0.00   976.11  2646.63


*SECNO 326.350
   326.35     6.11    53.11     0.00     0.00    53.43     0.32     0.71     0.01    53.00
   17000.   14604.    2241.     155.    3060.     727.      76.      98.      28.    48.00
     0.07     4.77     3.08     2.04    0.030    0.045    0.045    0.000    47.00  1628.33
 0.001114     650.     650.     650.        3        0        0     0.00   976.48  2604.82


*SECNO 332.150

3265 DIVIDED FLOW

   332.15     6.68    53.68     0.00     0.00    54.08     0.40     0.63     0.02    56.00
   17000.   16272.     728.       0.    3135.     436.       0.     147.      39.    54.00
     0.10     5.19     1.67     0.00    0.030    0.045    0.000    0.000    47.00  1719.00
 0.001062     575.     575.     575.        2        0        0     0.00   822.91  2601.80


*SECNO 336.200
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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


3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   336.20     4.89     54.89     54.89      0.00     56.14      1.25      1.13      0.25     53.00
   17000.   13987.     2988.       26.     1497.      425.        6.      172.       47.     53.00
     0.12     9.34      7.02      4.30     0.045     0.045     0.045     0.000     50.00   1730.55
 0.019342     405.      405.      405.        20        19         0      0.00    784.67   2571.30


*SECNO 341.600
3280 CROSS SECTION    341.60 EXTENDED      3.01 FEET


3301 HV CHANGED MORE THAN HVINS

   341.60     5.01     60.01      0.00      0.00     60.47      0.46      4.25      0.08     56.00
   17000.   13580.     3355.       64.     2543.      584.       20.      204.       57.     57.00
     0.14     5.34      5.75      3.20     0.045     0.045     0.045     0.000     55.00   1570.00
 0.004298     535.      535.      535.         5         0         0      0.00    875.00   2445.00


*SECNO 346.950
3280 CROSS SECTION    346.95 EXTENDED      0.54 FEET

   346.95     6.54     61.54      0.00      0.00     61.75      0.21      1.26      0.02     57.00
   17000.   14155.     2711.      134.     3876.      675.       55.      251.       69.     56.00
     0.18     3.65      4.02      2.45     0.045     0.045     0.045     0.000     55.00   1420.00
 0.001482     535.      535.      535.         4         0         0      0.00    989.79   2409.79


*SECNO 351.180
3280 CROSS SECTION    351.18 EXTENDED      0.29 FEET

   351.18     5.29     62.29      0.00      0.00     62.59      0.31      0.81      0.03     57.00
   17000.   13691.     2995.      314.     3191.      581.       78.      292.       78.     57.00
     0.21     4.29      5.15      4.00     0.045     0.045     0.045     0.000     57.00   1360.00
 0.002642     420.      420.      420.         2         0         0      0.00    994.29   2354.29
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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 356.690
  356.69      7.42     63.42      0.00      0.00     63.63      0.20      1.02      0.01     62.00
  17000.    14125.     2373.      503.     3828.      702.      210.      346.      91.      58.00
    0.25      3.69      3.38      2.40     0.045     0.045     0.045     0.000     56.00   1314.65
0.001400     545.      545.      545.         1         0         0      0.00   1082.75   2397.41


*SECNO 360.850

3265 DIVIDED FLOW

3280 CROSS SECTION    360.85 EXTENDED      3.05 FEET

  360.85      9.05     64.05      0.00      0.00     64.64      0.59      0.89      0.12     60.00
  17000.    11039.     5760.      201.     2017.      779.       55.      382.      99.      59.00
    0.27      5.47      7.40      3.68     0.045     0.045     0.045     0.000     55.00   1555.00
0.003738     415.      415.      415.         2         0         0      0.00    637.97   2251.63


*SECNO 365.100

3265 DIVIDED FLOW

3280 CROSS SECTION    365.10 EXTENDED      4.38 FEET

  365.10     10.38     65.38      0.00      0.00     65.66      0.28      0.99      0.03     60.00
  17000.     8063.     8727.      210.     2253.     1807.       83.      416.     106.      60.00
    0.30      3.58      4.83      2.55     0.045     0.045     0.045     0.000     55.00   1510.00
0.001622     420.      420.      420.         2         0         0      0.00    829.90   2380.73


CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

3265 DIVIDED FLOW

3280 CROSS SECTION    367.08 EXTENDED      1.68 FEET

  367.08     10.68     65.68      0.00      0.00     66.06      0.39      0.35      0.05     65.00
  17000.     8290.     8710.        0.     2376.     1425.        0.      434.     110.      60.00
    0.31      3.49      6.11      0.13     0.045     0.035     0.045     0.000     55.00   1372.00
0.001905     200.      200.      200.         2         0         0      0.00    914.24   2370.06
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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 367.180

3265 DIVIDED FLOW

3280 CROSS SECTION    367.18 EXTENDED      1.69 FEET

   367.18    10.68     65.68      0.00      0.00     66.09      0.41      0.02      0.01     65.00
   17000.    8835.     8165.      0.        2384.    1293.      0.        435.      111.     60.00
     0.31     3.71      6.31      0.15      0.035    0.025     0.035     0.000     55.00   1372.00
 0.001296     10.       10.       10.        1        0         0        0.00     896.55   2370.06


*SECNO 367.980

3265 DIVIDED FLOW

3280 CROSS SECTION    367.98 EXTENDED      1.81 FEET

   367.98    10.82     65.82      0.00      0.00     66.20      0.38      0.10      0.01     65.00
   17000.    8962.     8037.      0.        2467.    1319.      0.        442.      112.     60.00
     0.32     3.63      6.09      0.15      0.035    0.025     0.035     0.000     55.00   1372.00
 0.001198     80.       80.       80.        0        0         0        0.00     899.48   2370.06


*SECNO 368.220
   368.22    10.86     65.86      0.00      0.00     66.33      0.47      0.09      0.05     56.00
   17000.    4227.    12043.     730.       1475.    1934.      167.      448.      114.     55.00
     0.32     2.87      6.23      4.36      0.045    0.045     0.045     0.000     55.00   1636.09
 0.001498    120.       30.       30.        2        0         0        0.00     728.97   2365.06


CCHV=   0.100 CEHV=   0.300
*SECNO 369.300
   369.30    11.19     66.19      0.00      0.00     66.50      0.31      0.15      0.02     55.00
   17000.    6714.    10040.     246.       2036.    1964.      72.       457.      116.     58.00
     0.33     3.30      5.11      3.42      0.045    0.045     0.045     0.000     55.00   1556.32
 0.001498    110.      100.      100.        2        0         0        0.00     813.74   2370.06


*SECNO 370.210
   370.21    11.33     66.33      0.00      0.00     66.70      0.37      0.18      0.02     55.00
   17000.    8082.     8638.     280.       1949.    1554.      73.       466.      118.     60.00
     0.33     4.15      5.56      3.85      0.045    0.045     0.045     0.000     55.00   1588.33
 0.002229    100.      100.      100.        1        0         0        0.00     766.72   2355.05
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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 372.000
  372.00    11.58     66.58     0.00      0.00      67.22     0.64      0.44      0.08      55.00
  17000.    4873.     11249.    878.      1321.     1519.     194.      481.      121.      57.00
    0.34     3.69      7.40     4.53      0.045     0.045     0.045     0.000     55.00   1634.27
 0.002415    200.      180.     180.        2         0         0      0.00     661.24   2295.51


*SECNO 374.350
  374.35    12.06     67.06     0.00      0.00      67.66     0.60      0.44      0.00      55.00
  17000.    4024.     12516.    460.      930.      1848.     110.      494.      124.      59.00
    0.35     4.33      6.77     4.18      0.045     0.045     0.045     0.000     55.00   1805.00
 0.002173    205.      190.     190.        2         0         0      0.00     468.59   2273.59


*SECNO 375.200
  375.20    12.10     67.10     0.00      0.00      67.96     0.86      0.22      0.08      55.00
  17000.    3347.     13653.    0.        733.      1706.     0.        499.      124.      68.00
    0.35     4.57      8.00     0.00      0.045     0.045     0.000     0.000     55.00   1820.00
 0.003203     85.       85.      85.        2         0         0      0.00     416.63   2236.63


*SECNO 377.050

3301 HV CHANGED MORE THAN HVINS

  377.05    12.94     67.94     0.00      0.00      68.21     0.27      0.19      0.06      55.00
  17000.    1700.     13687.    1612.     683.      3106.     489.      511.      126.      55.00
    0.36     2.49      4.41     3.30      0.045     0.045     0.045     0.000     55.00   1835.01
 0.000586    150.      165.     150.        2         0         0      0.00     470.58   2305.59


*SECNO 379.380
  379.38    12.97     67.97     0.00      0.00      68.52     0.56      0.23      0.09      55.00
  17000.    4869.     11333.    799.      935.      1771.     190.      530.      129.      58.00
    0.37     5.21      6.40     4.20      0.045     0.045     0.045     0.000     55.00   1810.00
 0.001990    230.      230.     230.        2         0         0      0.00     463.11   2273.11


*SECNO 380.850

3265 DIVIDED FLOW

  380.85    13.40     68.40     0.00      0.00      68.72     0.32      0.17      0.02      55.00
  17000.    6486.     9917.     597.      1529.     2058.     243.      542.      130.      57.00
    0.38     4.24      4.82     2.45      0.045     0.045     0.045     0.000     55.00   1780.00
 0.000767    160.      140.     140.        2         0         0      0.00     513.29   2337.99
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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 383.100
  383.10    13.67     68.67      0.00      0.00     68.89      0.22      0.16      0.01     55.00
  17000.    9184.     6340.     1476.     2392.     1679.      491.      563.      133.     60.00
    0.40     3.84      3.78      3.01     0.045     0.045     0.045     0.000     55.00   1855.54
0.000648     230.      220.      220.         2         0         0      0.00    516.84   2372.38


*SECNO 385.000
  385.00    13.78     68.78      0.00      0.00     69.00      0.22      0.11      0.00     55.00
  17000.    4311.    12404.      285.     1377.     3123.      128.      582.      135.     60.00
    0.41     3.13      3.97      2.22     0.045     0.045     0.045     0.000     55.00   1809.23
0.000666     185.      170.      110.         0         0         0      0.00    560.03   2369.26


*SECNO 386.750
  386.75    13.89     68.89      0.00      0.00     69.13      0.23      0.12      0.00     59.00
  17000.    4490.    11915.      596.     1266.     2939.      222.      599.      137.     59.00
    0.42     3.55      4.05      2.68     0.045     0.045     0.045     0.000     55.00   1780.46
0.000806     170.      170.      160.         0         0         0      0.00    609.50   2389.96


*SECNO 388.650
  388.65    14.10     69.10      0.00      0.00     69.25      0.15      0.11      0.01     55.00
  17000.    5955.    10581.      464.     2072.     3232.      228.      621.      140.     59.00
    0.44     2.87      3.27      2.03     0.045     0.045     0.045     0.000     55.00   1755.90
0.000452     190.      190.      190.         2         0         0      0.00    639.28   2395.18


*SECNO 391.350
  391.35    14.18     69.18      0.00      0.00     69.31      0.13      0.06      0.00     59.00
  17000.    1511.    15098.      391.      726.     4976.      219.      642.      142.     59.00
    0.46     2.08      3.03      1.79     0.045     0.045     0.045     0.000     55.00   1763.38
0.000348     160.      160.      160.         1         0         0      0.00    624.53   2387.90


*SECNO 392.210
  392.21    14.24     69.24      0.00      0.00     69.39      0.15      0.07      0.00     55.00
  17000.    2256.    13821.      923.      744.     4338.      535.      666.      145.     59.00
    0.47     3.03      3.19      1.72     0.045     0.045     0.045     0.000     55.00   1735.41
0.000395     185.      185.      185.         1         0         0      0.00    629.67   2365.08
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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 394.000
  394.00    14.08     69.08     0.00      0.00      69.65     0.57      0.14      0.12      55.00
  17000.    3482.     12055.    1463.     567.      1918.     509.      684.      147.      63.00
    0.48     6.14      6.29     2.87     0.045     0.045     0.045     0.000     55.00    1752.94
 0.002283    175.      175.      175.       2         0         0      0.00     594.29    2347.23


*SECNO 395.550
  395.55    14.63     69.63     0.00      0.00      69.86     0.23      0.17      0.03      55.00
  17000.     638.     15563.     799.     296.      3945.     313.      698.      149.      59.00
    0.49     2.15      3.94     2.56     0.045     0.045     0.045     0.000     55.00    1742.65
 0.000622    160.      160.      160.       2         0         0      0.00     507.38    2250.03


*SECNO 396.550
  396.55    14.73     69.73     0.00      0.00      69.91     0.18      0.05      0.00      55.00
  17000.     800.     15309.     891.     289.      4337.     379.      708.      151.      60.00
    0.50     2.76      3.53     2.35     0.045     0.045     0.045     0.000     55.00    1746.21
 0.000469     95.       95.       95.       2         0         0      0.00     509.97    2256.18


*SECNO 397.250
  397.25     9.72     69.72     0.00      0.00      69.94     0.22      0.02      0.01     130.00
  17000.       0.     17000.       0.       0.      4550.       0.      715.      151.      66.00
    0.51     0.00      3.74     0.01     0.000     0.020     0.020     0.000     60.00    1719.97
 0.000183     65.       65.       65.       2         0         0      0.00     630.05    2350.03


*SECNO 398.150

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

  398.15     9.34     69.34     0.00      0.00      70.16     0.82      0.04      0.18      60.00
  17000.      63.     16371.     566.      20.      2231.     118.      722.      152.      62.00
    0.51     3.18      7.34     4.80     0.045     0.045     0.045     0.000     60.00    1805.75
 0.003851     85.       85.       85.       2         0         0      0.00     364.20    2187.14


*SECNO 399.450
  399.45    10.04     70.04     0.00      0.00      70.53     0.49      0.34      0.03      60.00
  17000.      64.     16437.     500.      26.      2877.     187.      730.      154.      67.00
    0.52     2.43      5.71     2.68     0.045     0.045     0.045     0.000     60.00    1739.87
 0.001986    125.      125.      125.       2         0         0      0.00     488.86    2228.74
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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 401.000
   401.00    10.52     70.52     0.00      0.00      70.73     0.22      0.18      0.03      60.00
   17000.    532.      16282.    186.      226.      4295.     106.      744.      156.      65.00
     0.53    2.35      3.79      1.75      0.045     0.045     0.045     0.000     60.00   1721.21
 0.000661    165.      165.      165.      0         0         0         0.00    547.16   2268.36


*SECNO 402.500
   402.50    10.58     70.58     0.00      0.00      70.86     0.28      0.11      0.02      62.00
   17000.    1584.     15404.    12.       467.      3572.     18.       759.      157.      70.00
     0.54    3.39      4.31      0.66      0.045     0.045     0.045     0.000     60.00   1742.08
 0.000847    150.      150.      150.      2         0         0         0.00    485.55   2227.63


*SECNO 404.200

3265 DIVIDED FLOW

   404.20    10.53     70.53     0.00      0.00      71.26     0.73      0.26      0.14      62.00
   17000.    5373.     11425.    201.      805.      1631.     60.       772.      159.      66.00
     0.54    6.67      7.00      3.38      0.045     0.045     0.045     0.000     60.00   1744.79
 0.003535    170.      170.      170.      2         0         0         0.00    429.45   2232.37


*SECNO 405.350
   405.35    11.06     71.06     0.00      0.00      71.67     0.61      0.40      0.01      60.00
   17000.    6952.     9292.     756.      1059.     1510.     151.      779.      160.      65.00
     0.55    6.56      6.15      5.01      0.045     0.045     0.045     0.000     60.00   1722.94
 0.003387    115.      115.      115.      2         0         0         0.00    489.47   2212.41


*SECNO 406.700
   406.70    11.57     71.57     0.00      0.00      71.90     0.33      0.20      0.03      65.00
   17000.    286.      14600.    2114.     130.      3033.     716.      788.      162.      60.00
     0.56    2.21      4.81      2.95      0.045     0.045     0.045     0.000     60.00   1735.58
 0.000930    125.      125.      125.      2         0         0         0.00    482.27   2217.85


*SECNO 408.000
   408.00    11.81     71.81     0.00      0.00      72.00     0.19      0.09      0.01      64.00
   17000.    2093.     14135.    772.      824.      3898.     315.      803.      163.      60.00
     0.57    2.54      3.63      2.45      0.045     0.045     0.045     0.000     60.00   1672.74
 0.000458    140.      140.      140.      2         0         0         0.00    516.32   2189.07
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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 409.250
   409.25     8.73     71.73      0.00      0.00     72.16      0.43      0.09      0.07     69.00
   17000.      88.    16435.      477.      56.     3097.      143.      814.      165.     63.00
     0.57     1.57      5.31      3.33     0.045     0.045     0.045     0.000     63.00   1729.02
 0.001495     115.      115.      115.         2         0         0      0.00    438.73   2167.75


*SECNO 410.500
   410.50     6.79     71.79      0.00      0.00     72.54      0.75      0.28      0.10     67.00
   17000.     208.    16155.      637.      57.     2290.      138.      822.      166.     65.00
     0.58     3.63      7.05      4.60     0.045     0.045     0.045     0.000     65.00   1746.04
 0.003872     125.      125.      125.         2         0         0      0.00    424.71   2170.75


*SECNO 411.250
   411.25     4.97     71.97      0.00      0.00     73.07      1.10      0.42      0.11     68.00
   17000.     192.    15026.     1782.      39.     1730.      284.      826.      167.     68.00
     0.58     4.88      8.68      6.26     0.045     0.045     0.045     0.000     67.00   1690.16
 0.009003      75.       75.       75.         2         0         0      0.00    502.54   2192.71


*SECNO 412.250

3301 HV CHANGED MORE THAN HVINS

   412.25     6.10     73.10      0.00      0.00     73.61      0.51      0.48      0.06     67.00
   17000.     486.    16017.      497.     111.     2745.      116.      832.      168.     67.00
     0.59     4.36      5.83      4.28     0.045     0.045     0.045     0.000     67.00   1657.60
 0.002799     105.      105.      105.         2         0         0      0.00    517.91   2175.51


*SECNO 413.250
   413.25     6.56     73.56      0.00      0.00     73.82      0.27      0.18      0.02     67.00
   17000.     497.    16184.      318.     158.     3869.      108.      840.      169.     67.00
     0.59     3.15      4.18      2.96     0.045     0.045     0.045     0.000     67.00   1537.21
 0.001307     100.      100.      100.         2         0         0      0.00    665.58   2202.79


*SECNO 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=     550.100
   414.55     6.69     73.69      0.00     76.37     74.02      0.33      0.18      0.02     67.00
   17000.       0.    17000.        0.        0.     3680.        0.      851.      171. 100000.00
     0.60     0.11      4.62      0.00     0.045     0.045     0.000     0.000     67.00   1679.95
 0.001577     125.      125.      125.         2         0         0      0.00    550.05   2230.00
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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 416.050
  416.05     6.94     73.94      0.00     76.63     74.26      0.32      0.24      0.00     67.00
  17000.     304.   16264.      432.       89.     3539.      150.      865.      173.      67.00
    0.61     3.41      4.60      2.87     0.045     0.045     0.045     0.000     67.00   1679.96
0.001464     155.     155.      155.         2         0         0      0.00    568.41   2248.36


*SECNO 417.300
  417.30     7.10     74.10      0.00     76.80     74.45      0.34      0.18      0.01     67.00
  17000.     881.   15820.      299.      260.     3307.      101.      875.      174.      67.00
    0.62     3.39      4.78      2.95     0.045     0.045     0.045     0.000     67.00   1652.33
0.001534     120.     120.      120.         1         0         0      0.00    566.12   2218.45


*SECNO 418.450
  418.45     7.22     74.22      0.00     76.86     74.71      0.49      0.22      0.04     70.00
  17000.     127.   16224.      649.       51.     2858.      180.      884.      176.      67.00
    0.62     2.50      5.68      3.59     0.045     0.045     0.045     0.000     67.00   1730.89
0.002170     120.     120.      120.         2         0         0      0.00    474.09   2204.98


*SECNO 419.550

3265 DIVIDED FLOW

  419.55     7.53     74.53      0.00     77.26     74.94      0.41      0.23      0.01     67.00
  17000.    2242.   14287.      471.      574.     2673.      142.      893.      177.      67.00
    0.63     3.91      5.35      3.32     0.045     0.045     0.045     0.000     67.00   1671.88
0.001775     115.     115.      115.         2         0         0      0.00    535.20   2212.65


*SECNO 420.650
  420.65     7.67     74.67      0.00     77.36     75.19      0.51      0.22      0.03     67.00
  17000.    1858.   12794.     2348.      365.     2110.      543.      901.      179.      67.00
    0.64     5.09      6.06      4.33     0.045     0.045     0.045     0.000     67.00   1741.30
0.002226     110.     110.      110.         2         0         0      0.00    471.55   2212.85


*SECNO 422.300
  422.30     7.95     74.95      0.00     77.55     75.63      0.68      0.39      0.05     68.00
  17000.     274.   14878.     1848.       71.     2192.      350.      911.      180.      67.00
    0.64     3.86      6.79      5.28     0.045     0.045     0.045     0.000     67.00   1829.55
0.002783     180.     160.      140.         2         0         0      0.00    382.61   2212.15
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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 423.650
   423.65     6.20     75.20      0.00     77.72     76.30      1.10      0.54      0.13     69.00
   17000.     299.    16389.      312.      58.      1921.      60.       919.      181.      69.00
     0.65     5.19      8.53      5.20     0.045     0.045     0.045     0.000     69.00   1821.41
 0.005859    170.      140.      120.       2         0         0        0.00    347.96   2169.37
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THIS RUN EXECUTED: Thu 22-JAN-1987 10:55:56.25

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****************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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T1      INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2      EA # 1192.2:  SCOTTSDALE LAKES GOLF COURSE:  USCE'S HIGH "n" VALUES
T3      DESIGN CONDITIONS(5A )              (1192D5A)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0.        5.        0.        0.  0.000000     -1.00       0.0        0.     0.000     0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     4.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
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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


*PROF 4

CCHV=   0.100 CEHV=   0.300
*SECNO 314.630
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
3280 CROSS SECTION    314.63 EXTENDED      0.00 FEET

3720 CRITICAL DEPTH ASSUMED
   314.63     5.80     50.00     50.00      0.00     50.81      0.81      0.00      0.00     44.20
   12000.    6766.     5216.       18.     1506.      540.       20.        0.        0.     45.00
     0.00     4.49      9.67      0.89     0.045     0.045     0.045     0.000     44.20   1530.00
 0.009038       0.        0.        0.         0        13         0      0.00   1250.00   2780.00


*SECNO 319.760

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

   319.76     5.43     51.73      0.00      0.00     51.93      0.21      1.06      0.06     52.30
   12000.   10247.     1639.      114.     2682.      660.       65.       32.       13.     47.00
     0.04     3.82      2.48      1.75     0.030     0.045     0.045     0.000     46.30   1675.15
 0.000904     510.      510.      510.         4         0         0      0.00    896.69   2642.58


*SECNO 326.350

3265 DIVIDED FLOW

   326.35     5.32     52.32      0.00      0.00     52.56      0.24      0.62      0.01     53.00
   12000.   10302.     1604.       94.     2489.      606.       54.       81.       26.     48.00
     0.09     4.14      2.65      1.73     0.030     0.045     0.045     0.000     47.00   1664.01
 0.000998     650.      650.      650.         3         0         0      0.00    867.35   2600.20


*SECNO 332.150

3265 DIVIDED FLOW

   332.15     5.83     52.83      0.00      0.00     53.13      0.30      0.56      0.02     56.00
   12000.   11717.      283.        0.     2635.      251.        0.      121.       37.     54.00
     0.12     4.45      1.13      0.00     0.030     0.045     0.000     0.000     47.00   1729.57
 0.000937     575.      575.      575.         2         0         0      0.00    797.53   2593.34
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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 336.200

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   336.20     4.48     54.48     54.48      0.00     55.39      0.91      0.99      0.18     53.00
   12000.   10133.     1855.       12.     1270.      333.        4.      142.       44.     53.00
     0.14     7.98      5.57      3.41     0.045     0.045     0.045     0.000     50.00   1732.61
 0.016909     405.      405.      405.        20        14         0      0.00    777.11   2569.93


*SECNO 341.600
3280 CROSS SECTION    341.60 EXTENDED      2.23 FEET


3301 HV CHANGED MORE THAN HVINS

   341.60     4.23     59.23      0.00      0.00     59.60      0.37      4.16      0.05     56.00
   12000.    9518.     2451.       30.     1974.      479.       12.      167.       54.     57.00
     0.17     4.82      5.12      2.46     0.045     0.045     0.045     0.000     55.00   1570.00
 0.004449     535.      535.      535.         5         0         0      0.00    875.00   2445.00


*SECNO 346.950

3265 DIVIDED FLOW

   346.95     5.68     60.68      0.00      0.00     60.84      0.16      1.22      0.02     57.00
   12000.    9927.     1990.       83.     3156.      572.       39.      205.       65.     56.00
     0.21     3.15      3.48      2.11     0.045     0.045     0.045     0.000     55.00   1422.35
 0.001383     535.      535.      535.         4         0         0      0.00    958.01   2406.74


*SECNO 351.180

3265 DIVIDED FLOW

   351.18     4.42     61.42      0.00      0.00     61.67      0.25      0.80      0.03     57.00
   12000.    9485.     2298.      218.     2461.      486.       59.      238.       75.     57.00
     0.24     3.85      4.73      3.71     0.045     0.045     0.045     0.000     57.00   1364.35
 0.002823     420.      420.      420.         2         0         0      0.00    955.13   2351.40
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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 356.690

3265 DIVIDED FLOW

   356.69     6.54     62.54     0.00      0.00     62.70     0.16      1.02      0.01     62.00
   12000.   10081.     1613.     306.     3089.      566.     147.      280.      87.      58.00
     0.29     3.26      2.85     2.07     0.045     0.045    0.045     0.000     56.00  1321.66
 0.001324    545.      545.     545.        2         0        0      0.00   1043.08  2384.90


*SECNO 360.850

3265 DIVIDED FLOW

3280 CROSS SECTION    360.85 EXTENDED      2.17 FEET

   360.85     8.17     63.17     0.00      0.00     63.63     0.46      0.84      0.09     60.00
   12000.    7436.     4447.     116.     1578.      682.      37.      309.      95.      59.00
     0.31     4.71      6.52     3.12     0.045     0.045    0.045     0.000     55.00  1555.00
 0.003459    415.      415.     415.        2         0        0      0.00    624.45  2247.88


*SECNO 365.100

3265 DIVIDED FLOW

3280 CROSS SECTION    365.10 EXTENDED      3.38 FEET

   365.10     9.38     64.38     0.00      0.00     64.60     0.22      0.94      0.02     60.00
   12000.    5236.     6644.     120.     1718.     1547.      55.      336.     102.      60.00
     0.34     3.05      4.30     2.19     0.045     0.045    0.045     0.000     55.00  1510.00
 0.001579    420.      420.     420.        2         0        0      0.00    812.89  2375.00


CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

3265 DIVIDED FLOW

3280 CROSS SECTION    367.08 EXTENDED      0.66 FEET

   367.08     9.66     64.66     0.00      0.00     65.02     0.36      0.35      0.07     65.00
   12000.    5003.     6997.       0.     1688.     1201.       0.      351.     106.      60.00
     0.36     2.96      5.83     0.12     0.045     0.035    0.045     0.000     55.00  1372.00
 0.001968    200.      200.     200.        2         0        0      0.00    862.66  2370.05
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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 367.180

3265 DIVIDED FLOW

3280 CROSS SECTION    367.18 EXTENDED      0.67 FEET

   367.18     9.66    64.66     0.00     0.00    65.05     0.39     0.02     0.01    65.00
   12000.    5353.    6647.       0.    1695.    1087.       0.     351.     106.    60.00
     0.36     3.16     6.12     0.14    0.035    0.025    0.035    0.000    55.00  1372.00
 0.001347      10.      10.      10.        1        0        0     0.00   845.06  2370.05


*SECNO 367.980

3265 DIVIDED FLOW

3280 CROSS SECTION    367.98 EXTENDED      0.80 FEET

   367.98     9.80    64.80     0.00     0.00    65.16     0.36     0.10     0.01    65.00
   12000.    5467.    6533.       0.    1779.    1112.       0.     356.     108.    60.00
     0.36     3.07     5.87     0.13    0.035    0.025    0.035    0.000    55.00  1372.00
 0.001211      80.      80.      80.        1        0        0     0.00   849.93  2370.05


*SECNO 368.220

3265 DIVIDED FLOW

   368.22     9.88    64.88     0.00     0.00    65.23     0.35     0.07     0.00    56.00
   12000.    2208.    9245.     548.     979.    1759.     148.     361.     109.    55.00
     0.36     2.26     5.26     3.71    0.045    0.045    0.045    0.000    55.00  1668.21
 0.001213     120.      30.      30.        0        0        0     0.00   647.90  2365.05


CCHV=   0.100 CEHV=   0.300
*SECNO 369.300
   369.30    10.13    65.13     0.00     0.00    65.38     0.25     0.14     0.01    55.00
   12000.    4028.    7778.     194.    1445.    1704.       61.     369.     111.    58.00
     0.37     2.79     4.56     3.16    0.045    0.045    0.045    0.000    55.00  1560.88
 0.001445     110.     100.     100.        2        0        0     0.00   809.17  2370.05
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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 370.210
   370.21    10.26     65.26     0.00      0.00      65.58     0.32      0.18      0.02      55.00
   12000.    5164.     6640.     196.      1392.     1307.     56.       375.      113.      60.00
     0.38     3.71      5.08     3.48      0.045     0.045     0.045     0.000     55.00   1593.70
 0.002344     100.      100.     100.         0         0         0      0.00    761.34   2355.03


*SECNO 372.000
   372.00    10.54     65.54     0.00      0.00      66.07     0.53      0.42      0.06      55.00
   12000.    2533.     8853.     613.      839.      1358.     154.      386.      116.      57.00
     0.39     3.02      6.52     3.98      0.045     0.045     0.045     0.000     55.00   1638.60
 0.002174     200.      180.     180.         2         0         0      0.00    652.52   2291.12


*SECNO 374.350
   374.35    11.02     66.02     0.00      0.00      66.46     0.43      0.38      0.01      55.00
   12000.    2412.     9310.     278.      681.      1640.     83.       397.      119.      59.00
     0.40     3.54      5.68     3.37      0.045     0.045     0.045     0.000     55.00   1805.01
 0.001789     205.      190.     190.         2         0         0      0.00    464.26   2269.27


*SECNO 375.200
   375.20    11.06     66.06     0.00      0.00      66.70     0.63      0.18      0.06      55.00
   12000.    1800.    10200.     0.        500.      1510.     0.        401.      119.      68.00
     0.40     3.60      6.76     0.00      0.045     0.045     0.000     0.000     55.00   1820.01
 0.002614      85.       85.      85.         2         0         0      0.00    412.74   2232.74


*SECNO 377.050
   377.05    11.71     66.71     0.00      0.00      66.89     0.18      0.14      0.05      55.00
   12000.    962.      9961.     1077.     473.      2810.     415.      412.      121.      55.00
     0.41     2.03      3.54     2.59      0.045     0.045     0.045     0.000     55.00   1835.01
 0.000433     150.      165.     150.         2         0         0      0.00    468.94   2303.95


*SECNO 379.380
   379.38    11.72     66.72     0.00      0.00      67.13     0.41      0.18      0.07      55.00
   12000.    3250.     8230.     519.      679.      1528.     145.      428.      123.      58.00
     0.43     4.79      5.39     3.57      0.045     0.045     0.045     0.000     55.00   1921.40
 0.001719     230.      230.     230.         2         0         0      0.00    346.93   2268.34
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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 380.850

380.85	12.07	67.07	0.00	0.00	67.29	0.22	0.14	0.02	55.00
12000.	4553.	7146.	300.	1280.	1833.	156.	437.	124.	57.00
0.44	3.56	3.90	1.92	0.045	0.045	0.045	0.000	55.00	1950.85
0.000586	160.	140.	140.	2	0	0	0.00	382.73	2333.58

*SECNO 383.100

383.10	12.27	67.27	0.00	0.00	67.42	0.15	0.13	0.01	55.00
12000.	6556.	4494.	950.	2034.	1435.	386.	456.	127.	60.00
0.46	3.22	3.13	2.46	0.045	0.045	0.045	0.000	55.00	1871.83
0.000550	230.	220.	220.	2	0	0	0.00	495.57	2367.40

*SECNO 385.000

385.00	12.37	67.37	0.00	0.00	67.52	0.16	0.10	0.00	55.00
12000.	2792.	9041.	167.	1070.	2684.	90.	471.	129.	60.00
0.47	2.61	3.37	1.85	0.045	0.045	0.045	0.000	55.00	1817.02
0.000586	185.	170.	110.	0	0	0	0.00	547.51	2364.53

*SECNO 386.750

3265 DIVIDED FLOW

386.75	12.47	67.47	0.00	0.00	67.64	0.18	0.11	0.01	59.00
12000.	3064.	8560.	376.	962.	2475.	163.	486.	131.	59.00
0.49	3.19	3.46	2.31	0.045	0.045	0.045	0.000	55.00	1786.41
0.000739	170.	170.	160.	0	0	0	0.00	532.19	2383.46

*SECNO 388.650

388.65	12.64	67.64	0.00	0.00	67.75	0.11	0.10	0.01	55.00
12000.	4057.	7656.	287.	1681.	2765.	167.	503.	133.	59.00
0.51	2.41	2.77	1.72	0.045	0.045	0.045	0.000	55.00	1767.24
0.000398	190.	190.	190.	2	0	0	0.00	621.41	2388.65

*SECNO 391.350

391.35	12.71	67.71	0.00	0.00	67.80	0.09	0.05	0.00	59.00
12000.	891.	10872.	236.	543.	4303.	160.	521.	136.	59.00
0.53	1.64	2.53	1.48	0.045	0.045	0.045	0.000	55.00	1769.54
0.000293	160.	160.	160.	2	0	0	0.00	612.13	2381.67

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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 392.210
  392.21    12.76     67.76     0.00      0.00      67.87     0.11      0.06      0.00      55.00
  12000.    1622.     9946.     432.      629.      3739.     329.      542.      138.      59.00
    0.54     2.58      2.66     1.31     0.045     0.045     0.045     0.000     55.00   1739.30
 0.000336    185.      185.     185.        1         0         0      0.00    614.35   2353.65


*SECNO 394.000
  394.00    12.62     67.62     0.00      0.00      68.10     0.48      0.12      0.11      55.00
  12000.    2621.     8864.     515.      458.      1566.     181.      556.      140.      63.00
    0.55     5.72      5.66     2.84     0.045     0.045     0.045     0.000     55.00   1758.11
 0.002424    175.      175.     175.        2         0         0      0.00    390.44   2148.54


*SECNO 395.550
  395.55    13.13     68.13     0.00      0.00      68.29     0.16      0.16      0.03      55.00
  12000.    323.     11199.     478.      200.      3385.     229.      567.      142.      59.00
    0.57     1.62      3.31     2.08     0.045     0.045     0.045     0.000     55.00   1748.25
 0.000537    160.      160.     160.        2         0         0      0.00    486.97   2235.23


*SECNO 396.550
  396.55    13.21     68.21     0.00      0.00      68.34     0.13      0.04      0.00      55.00
  12000.    526.     10966.     508.      226.      3739.     275.      575.      143.      60.00
    0.58     2.32      2.93     1.85     0.045     0.045     0.045     0.000     55.00   1750.63
 0.000394     95.       95.      95.        2         0         0      0.00    501.01   2251.64


*SECNO 397.250
  397.25     8.20     68.20     0.00      0.00      68.37     0.17      0.02      0.01     130.00
  12000.       0.     12000.      0.        0.      3591.       0.      581.      144.      66.00
    0.58     0.00      3.34     0.01     0.000     0.020     0.020     0.000     60.00   1719.98
 0.000200     65.       65.      65.        2         0         0      0.00    630.03   2350.02


*SECNO 398.150

3265 DIVIDED FLOW

  398.15     7.90     67.90     0.00      0.00      68.56     0.66      0.05      0.15      60.00
  12000.      41.     11639.     320.      14.       1770.     76.       587.      145.      62.00
    0.59     2.88      6.57     4.19     0.045     0.045     0.045     0.000     60.00   1806.41
 0.003934     85.       85.      85.        2         0         0      0.00    341.41   2180.84
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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 399.450
   399.45     8.54     68.54      0.00      0.00     68.94      0.40      0.35      0.03     60.00
   12000.      43.     11843.     115.       18.     2316.      74.       593.      146.      67.00
     0.59     2.34      5.11      1.56     0.045     0.045     0.045     0.000     60.00   1770.73
 0.002124     125.      125.      125.        2         0         0      0.00    451.60   2222.32


*SECNO 401.000
   401.00     8.98     68.98      0.00      0.00     69.14      0.16      0.17      0.02     60.00
   12000.     276.     11653.      71.      146.     3595.      55.       604.      148.      65.00
     0.61     1.88      3.24      1.28     0.045     0.045     0.045     0.000     60.00   1725.06
 0.000613     165.      165.      165.        2         0         0      0.00    532.79   2257.84


*SECNO 402.500
   402.50     9.05     69.05      0.00      0.00     69.25      0.20      0.10      0.01     62.00
   12000.    1005.     10995.      0.       354.     2999.      0.        617.      149.      70.00
     0.62     2.84      3.67      0.00     0.045     0.045     0.000     0.000     60.00   1749.75
 0.000757     150.      150.      150.        2         0         0      0.00    439.45   2189.20


*SECNO 404.200

3265 DIVIDED FLOW

   404.20     8.99     68.99      0.00      0.00     69.63      0.64      0.25      0.13     62.00
   12000.    3640.     8292.      68.       592.     1265.      22.       627.      151.      66.00
     0.63     6.14      6.56      3.09     0.045     0.045     0.045     0.000     60.00   1756.67
 0.003993     170.      170.      170.        2         0         0      0.00    372.33   2144.00


*SECNO 405.350

3265 DIVIDED FLOW

   405.35     9.54     69.54      0.00      0.00     70.10      0.56      0.46      0.01     60.00
   12000.    4805.     6790.      404.      784.     1129.      94.       632.      152.      65.00
     0.63     6.13      6.01      4.29     0.045     0.045     0.045     0.000     60.00   1734.57
 0.004009     115.      115.      115.        2         0         0      0.00    437.31   2203.86


*SECNO 406.700
   406.70    10.09     70.09      0.00      0.00     70.33      0.24      0.20      0.03     65.00
   12000.     137.     10721.     1142.      78.     2602.      495.      640.      153.      60.00
     0.64     1.76      4.12      2.31     0.045     0.045     0.045     0.000     60.00   1744.49
 0.000836     125.      125.      125.        2         0         0      0.00    465.94   2210.43
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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 408.000
  408.00    10.29     70.29      0.00      0.00     70.42      0.13      0.08      0.01     64.00
  12000.    1278.    10262.     461.      635.     3386.      238.      651.      155.      60.00
    0.65     2.01      3.03      1.94     0.045     0.045     0.045     0.000     60.00   1678.85
0.000386    140.      140.      140.        2         0         0      0.00    502.58   2181.43


*SECNO 409.250
  409.25     7.23     70.23      0.00      0.00     70.55      0.32      0.08      0.06     69.00
  12000.      10.    11706.     284.       11.     2549.       98.      661.      156.      63.00
    0.66     0.91      4.59      2.90     0.045     0.045     0.045     0.000     63.00   1751.55
0.001452    115.      115.      115.        2         0         0      0.00    410.56   2162.11


*SECNO 410.500
  410.50     5.30     70.30      0.00      0.00     70.96      0.66      0.30      0.10     67.00
  12000.      86.    11548.     366.       27.     1752.       84.      667.      157.      65.00
    0.67     3.16      6.59      4.35     0.045     0.045     0.045     0.000     65.00   1753.52
0.004831    125.      125.      125.        2         0         0      0.00    408.27   2161.78


*SECNO 411.250

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  411.25     3.46     70.46     70.46      0.00     71.82      1.36      0.64      0.21     68.00
  12000.      77.    11161.     762.       15.     1164.      132.      670.      158.      68.00
    0.67     5.10      9.59      5.76     0.045     0.045     0.045     0.000     67.00   1697.71
0.018605     75.       75.       75.        2        14         0      0.00    481.41   2179.12


*SECNO 412.250

3301 HV CHANGED MORE THAN HVINS

  412.25     5.12     72.12      0.00      0.00     72.49      0.37      0.57      0.10     67.00
  12000.     297.    11401.     301.       81.     2303.       84.      674.      159.      67.00
    0.67     3.66      4.95      3.61     0.045     0.045     0.045     0.000     67.00   1661.53
0.002549    105.      105.      105.        2         0         0      0.00    509.05   2170.59
```

```
   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 413.250
   413.25     5.48     72.48      0.00      0.00     72.68      0.19      0.17      0.02     67.00
   12000.     305.    11505.     190.      115.     3237.      75.      681.      161.      67.00
     0.68     2.65      3.55      2.52     0.045     0.045     0.045     0.000     67.00   1542.57
 0.001198     100.      100.      100.         2         0         0      0.00    654.86   2197.43


*SECNO 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=    550.100
   414.55     5.62     72.62      0.00     76.37     72.85      0.23      0.16      0.01     67.00
   12000.       0.    12000.        0.        0.     3089.       0.      691.      162. 100000.00
     0.69     0.10      3.88      0.00     0.045     0.045     0.000     0.000     67.00   1679.96
 0.001405     125.      125.      125.         2         0         0      0.00    550.04   2230.00


*SECNO 416.050
   416.05     5.83     72.83      0.00     76.63     73.06      0.23      0.21      0.00     67.00
   12000.     212.    11531.     257.       72.     2971.     106.      702.      164.      67.00
     0.70     2.93      3.88      2.42     0.045     0.045     0.045     0.000     67.00   1679.97
 0.001317     155.      155.      155.         1         0         0      0.00    561.45   2241.41


*SECNO 417.300
   417.30     5.98     72.98      0.00     76.80     73.23      0.25      0.16      0.01     67.00
   12000.     509.    11311.     180.      182.     2785.      72.      710.      166.      67.00
     0.71     2.79      4.06      2.51     0.045     0.045     0.045     0.000     67.00   1659.06
 0.001390     120.      120.      120.         1         0         0      0.00    554.90   2213.96


*SECNO 418.450
   418.45     6.11     73.11      0.00     76.86     73.46      0.35      0.20      0.03     70.00
   12000.      53.    11555.     392.       28.     2413.     129.      718.      167.      67.00
     0.72     1.93      4.79      3.04     0.045     0.045     0.045     0.000     67.00   1737.24
 0.001933     120.      120.      120.         2         0         0      0.00    460.05   2197.29


*SECNO 419.550

3265 DIVIDED FLOW

   419.55     6.36     73.36      0.00     77.26     73.66      0.30      0.20      0.00     67.00
   12000.    1399.    10314.     287.      418.     2259.     101.      725.      168.      67.00
     0.72     3.35      4.57      2.84     0.045     0.045     0.045     0.000     67.00   1676.55
 0.001622     115.      115.      115.         2         0         0      0.00    510.88   2206.81
```

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 420.650

420.65	6.51	73.51	0.00	77.36	73.89	0.38	0.20	0.02	67.00
12000.	1254.	9339.	1406.	287.	1789.	397.	732.	170.	67.00
0.73	4.37	5.22	3.54	0.045	0.045	0.045	0.000	67.00	1745.98
0.002058	110.	110.	110.	2	0	0	0.00	459.07	2205.05

*SECNO 422.300

422.30	6.79	73.79	0.00	77.55	74.28	0.48	0.36	0.03	68.00
12000.	159.	10654.	1187.	49.	1863.	266.	740.	171.	67.00
0.74	3.21	5.72	4.46	0.045	0.045	0.045	0.000	67.00	1832.94
0.002454	180.	160.	140.	0	0	0	0.00	370.56	2203.50

*SECNO 423.650

423.65	5.04	74.04	0.00	77.72	74.89	0.85	0.50	0.11	69.00
12000.	173.	11647.	181.	38.	1563.	40.	746.	172.	69.00
0.74	4.53	7.45	4.54	0.045	0.045	0.045	0.000	69.00	1824.87
0.005885	170.	140.	120.	2	0	0	0.00	340.89	2165.76

THIS RUN EXECUTED: Thu 22-JAN-1987 10:57:44.90

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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T1      INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2      EA # 1192.2:  SCOTTSDALE LAKES GOLF COURSE:  USCE'S HIGH "n" VALUES
T3      DESIGN CONDITIONS(5A )              (1192D5A)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0.        6.        0.        0.  0.000000     -1.00       0.0        0.     0.000     0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     5.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
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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


*PROF 5

CCHV=   0.100 CEHV=   0.300
*SECNO 314.630
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

3720 CRITICAL DEPTH ASSUMED
   314.63     4.43    48.63    48.63     0.00    49.24     0.60     0.00     0.00    44.20
    3500.     719.    2781.       0.     346.     403.       0.       0.       0.    45.00
     0.00     2.08     6.90     0.31    0.045    0.045    0.045    0.000    44.20  1822.39
 0.006801       0.       0.       0.        0       14        0     0.00   714.99  2650.08


*SECNO 319.760

3470 ENCROACHMENT STATIONS=    2440.0    2650.0  TYPE=     1  TARGET=     210.000
   319.76     5.23    51.53     0.00    53.82    51.94     0.41     2.69     0.02    52.30
    3500.       0.    3281.     219.       0.     627.      60.       8.       5.    47.00
     0.03     0.00     5.23     3.66    0.000    0.045    0.045    0.000    46.30  2450.95
 0.004207     510.     510.     510.        2        0        0     0.00   190.46  2641.40


*SECNO 326.350

3470 ENCROACHMENT STATIONS=    2420.0    2610.0  TYPE=     1  TARGET=     190.000
   326.35     6.05    53.45     0.00    54.68    53.71     0.26     1.75     0.02    53.00
    3500.       0.    3260.     240.       0.     780.      87.      20.       8.    48.00
     0.07     0.00     4.18     2.76    0.000    0.045    0.045    0.000    47.40  2420.00
 0.001873     650.     650.     650.        3        0        0     0.00   186.80  2606.80


*SECNO 332.150

3470 ENCROACHMENT STATIONS=    2365.0    2625.0  TYPE=     1  TARGET=     260.000
   332.15     3.98    54.98     0.00    55.33    55.33     0.35     1.59     0.03    56.00
    3500.       0.    3493.       7.       0.     736.       5.      31.      11.    54.00
     0.11     0.00     4.74     1.37    0.000    0.045    0.045    0.000    51.00  2370.10
 0.004506     575.     575.     575.        2        0        0     0.00   244.70  2614.80
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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 336.200

3470 ENCROACHMENT STATIONS=    2320.0    2585.0  TYPE=     1  TARGET=     265.000
   336.20     3.55     56.55     0.00     56.06     56.82     0.27      1.48      0.01     53.00
    3500.      82.     3364.      54.       31.      797.      21.       38.       13.     53.00
     0.13     2.62      4.22     2.58     0.045     0.045    0.045     0.000     53.00   2322.28
 0.003019     405.      405.     405.         2         0        0      0.00    254.54   2576.81


*SECNO 341.600

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    2275.0    2445.0  TYPE=     1  TARGET=     170.000
   341.60     3.92     58.92     0.00     61.48     59.78     0.86      2.78      0.18     56.00
    3500.     158.     3312.      31.       36.      437.       9.       46.       16.     57.00
     0.15     4.44      7.58     3.33     0.045     0.045    0.045     0.000     55.00   2275.67
 0.011032     535.      535.     535.         2         0        0      0.00    168.93   2444.60


*SECNO 346.950

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    2230.0    2415.0  TYPE=     1  TARGET=     185.000
   346.95     6.60     61.60     0.00     63.27     61.92     0.32      2.09      0.05     57.00
    3500.     146.     3195.     160.       64.      683.      56.       54.       18.     56.00
     0.19     2.27      4.68     2.85     0.045     0.045    0.045     0.000     55.00   2230.00
 0.001981     535.      535.     535.         3         0        0      0.00    180.02   2410.02


*SECNO 351.180

3470 ENCROACHMENT STATIONS=    2190.0    2360.0  TYPE=     1  TARGET=     170.000
   351.18     5.47     62.47     0.00     64.05     62.81     0.33      0.88      0.00     57.00
    3500.     286.     2904.     310.       89.      602.      83.       62.       20.     57.00
     0.21     3.20      4.82     3.73     0.045     0.045    0.045     0.000     57.00   2190.00
 0.002210     420.      420.     420.         3         0        0      0.00    164.91   2354.91
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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 356.690

3470 ENCROACHMENT STATIONS=    2165.0    2420.0  TYPE=     1  TARGET=     255.000
   356.69     5.97     63.67     0.00     65.24     63.88     0.21      1.06      0.01     62.00
    3500.      0.      2869.     631.      0.       741.      229.      73.       22.      58.00
     0.25     0.00      3.87     2.75     0.000     0.045     0.045     0.000    57.70  2165.00
 0.001736     545.      545.     545.       2         0         0      0.00    235.98  2400.98


*SECNO 360.850

3470 ENCROACHMENT STATIONS=    2100.0    2260.0  TYPE=     1  TARGET=     160.000
   360.85     9.21     64.21     0.00     65.79     64.46     0.25      0.57      0.01     60.00
    3500.     111.     3269.     119.      54.       797.      58.       82.       24.      59.00
     0.28     2.05      4.10     2.05     0.045     0.045     0.045     0.000    55.00  2100.00
 0.001114     415.      415.     415.       2         0         0      0.00    152.34  2252.34


*SECNO 365.100

3470 ENCROACHMENT STATIONS=    2060.0    2390.0  TYPE=     1  TARGET=     330.000
   365.10     9.65     64.65     0.00     67.42     64.72     0.06      0.24      0.02     60.00
    3500.     119.     3316.      65.      95.      1619.      62.       94.       26.      60.00
     0.34     1.26      2.05     1.06     0.045     0.045     0.045     0.000    55.00  2060.00
 0.000338     420.      420.     420.       2         0         0      0.00    316.59  2376.59


CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
   367.08     9.70     64.70     0.00     67.77     64.83     0.13      0.08     0.03100000.00
    3500.      0.      3500.      0.       0.       1210.      0.       101.      28.      60.00
     0.36     0.00      2.89     0.06     0.000     0.035     0.045     0.000    55.00  2155.04
 0.000480     200.      200.     200.       2         0         0      0.00    215.01  2370.05


*SECNO 367.180

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
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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


   367.18     9.69     64.69      0.00     67.78     64.85      0.16      0.00      0.01100000.00
    3500.       0.     3500.       0.        0.     1092.       0.      102.       28.      60.00
     0.36     0.00      3.20      0.07     0.000     0.025     0.035     0.000     55.00  2155.03
 0.000367      10.       10.       10.         1         0         0      0.00    197.03  2370.05


*SECNO 367.980

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
   367.98     9.72     64.72      0.00     67.90     64.88      0.16      0.03      0.00100000.00
    3500.       0.     3500.       0.        0.     1098.       0.      104.       28.      60.00
     0.37     0.00      3.19      0.07     0.000     0.025     0.035     0.000     55.00  2155.03
 0.000362      80.       80.       80.         0         0         0      0.00    197.03  2370.05


*SECNO 368.220

3470 ENCROACHMENT STATIONS=    2120.0    2365.1  TYPE=     1  TARGET=     245.100
   368.22     9.87     64.87      0.00     67.89     64.92      0.05      0.01      0.03      56.00
    3500.     203.     3112.     184.      197.     1757.     148.      105.       28.      55.00
     0.37     1.03      1.77      1.25     0.045     0.045     0.045     0.000     55.00  2120.63
 0.000138     120.       30.       30.         2         0         0      0.00    244.41  2365.05


CCHV=   0.100 CEHV=   0.300
*SECNO 369.300

3470 ENCROACHMENT STATIONS=    2055.0    2370.1  TYPE=     1  TARGET=     315.100
   369.30     9.89     64.89      0.00     68.33     64.94      0.05      0.02      0.00      55.00
    3500.     424.     3001.      75.       264.     1646.      59.      110.       29.      58.00
     0.39     1.61      1.82      1.27     0.045     0.045     0.045     0.000     55.00  2055.80
 0.000241     110.      100.      100.         1         0         0      0.00    314.25  2370.05


*SECNO 370.210

3470 ENCROACHMENT STATIONS=    2050.0    2355.1  TYPE=     1  TARGET=     305.100
   370.21     9.90     64.90      0.00     68.46     64.98      0.08      0.03      0.01      55.00
    3500.     754.     2670.      76.       314.     1226.      51.      114.       29.      60.00
     0.40     2.40      2.18      1.48     0.045     0.045     0.045     0.000     55.00  2050.46
 0.000470     100.      100.      100.         0         0         0      0.00    304.56  2355.03
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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 372.000

3470 ENCROACHMENT STATIONS=    2030.0    2340.0  TYPE=     1  TARGET=     310.010
  372.00     9.97     64.97      0.00     68.69     65.04      0.07      0.07      0.00     55.00
   3500.     468.     2848.      184.      283.     1270.      134.      121.       31.     57.00
    0.42     1.66      2.24      1.37     0.045     0.045     0.045     0.000     55.00   2030.62
0.000281     200.      180.      180.         0         0         0      0.00    258.09   2288.71

*SECNO 374.350

3470 ENCROACHMENT STATIONS=    1975.0    2350.0  TYPE=     1  TARGET=     375.000
  374.35    10.04     65.04      0.00     69.12     65.10      0.06      0.05      0.00     55.00
   3500.     551.     2882.       66.      353.     1444.       61.      128.       32.     59.00
    0.45     1.56      2.00      1.09     0.045     0.045     0.045     0.000     55.00   1975.00
0.000262     205.      190.      190.         0         0         0      0.00    290.20   2265.20

*SECNO 375.200

3470 ENCROACHMENT STATIONS=    1990.0    2330.0  TYPE=     1  TARGET=     340.000
  375.20    10.05     65.05      0.00     69.14     65.13      0.09      0.03      0.01     55.00
   3500.     328.     3172.        0.      178.     1322.        0.      132.       32.     68.00
    0.46     1.84      2.40      0.00     0.045     0.045     0.000     0.000     55.00   1990.00
0.000383      85.       85.       85.         1         0         0      0.00    238.96   2228.96

*SECNO 377.050
  377.05    10.14     65.14      0.00     70.41     65.16      0.02      0.02      0.01     55.00
   3500.     219.     3000.      281.      283.     2433.      325.      140.       34.     55.00
    0.50     0.77      1.23      0.87     0.045     0.045     0.045     0.000     55.00   1943.73
0.000063     150.      165.      150.         2         0         0      0.00    358.12   2301.85

*SECNO 379.380
  379.38    10.14     65.14      0.00     70.46     65.20      0.06      0.03      0.01     55.00
   3500.     899.     2468.      133.      498.     1220.       97.      153.       35.     58.00
    0.53     1.81      2.02      1.36     0.045     0.045     0.045     0.000     55.00   1929.29
0.000327     230.      230.      230.         2         0         0      0.00    333.01   2262.31

*SECNO 380.850
  380.85    10.20     65.20      0.00     71.08     65.23      0.03      0.02      0.00     55.00
   3500.    1311.     2130.       59.     1010.     1514.       75.      160.       36.     57.00
    0.56     1.30      1.41      0.79     0.045     0.045     0.045     0.000     55.00   1961.01
0.000098     160.      140.      140.         2         0         0      0.00    327.21   2288.22
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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 383.100
  383.10    10.23     65.23     0.00      71.46     65.25     0.02      0.02      0.00      55.00
   3500.    1967.     1309.     224.      1541.     1079.     246.      175.      39.       60.00
    0.61    1.28      1.21      0.91      0.045     0.045     0.045     0.000     55.00     1880.88
 0.000121   230.      220.      220.      1         0         0         0.00      479.26    2360.13

*SECNO 385.000
  385.00    10.25     65.25     0.00      71.62     65.28     0.03      0.02      0.00      55.00
   3500.    675.      2792.     33.       632.      2029.     46.       186.      41.       60.00
    0.65    1.07      1.38      0.73      0.045     0.045     0.045     0.000     55.00     1828.65
 0.000142   185.      170.      110.      0         0         0         0.00      528.84    2357.49

*SECNO 386.750

3265 DIVIDED FLOW

  386.75    10.27     65.27     0.00      71.76     65.31     0.03      0.03      0.00      59.00
   3500.    882.      2530.     88.       624.      1763.     89.       196.      43.       59.00
    0.68    1.41      1.44      0.98      0.045     0.045     0.045     0.000     55.00     1795.54
 0.000200   170.      170.      160.      0         0         0         0.00      493.40    2373.50

*SECNO 388.650
  388.65    10.31     65.31     0.00      72.02     65.33     0.02      0.03      0.00      55.00
   3500.    1092.     2344.     64.       1090.     2018.     89.       208.      45.       59.00
    0.73    1.00      1.16      0.72      0.045     0.045     0.045     0.000     55.00     1789.70
 0.000106   190.      190.      190.      0         0         0         0.00      588.51    2378.21

*SECNO 391.350
  391.35    10.33     65.33     0.00      72.12     65.35     0.02      0.01      0.00      59.00
   3500.    156.      3295.     50.       269.      3224.     85.       221.      47.       59.00
    0.78    0.58      1.02      0.59      0.045     0.045     0.045     0.000     55.00     1779.42
 0.000070   160.      160.      160.      0         0         0         0.00      592.27    2371.69

*SECNO 392.210
  392.21    10.34     65.34     0.00      72.20     65.36     0.02      0.01      0.00      55.00
   3500.    489.      2956.     55.       453.      2760.     86.       235.      49.       59.00
    0.83    1.08      1.07      0.63      0.045     0.045     0.045     0.000     55.00     1745.66
 0.000082   185.      185.      185.      0         0         0         0.00      501.55    2247.21
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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 394.000

3265 DIVIDED FLOW .

  394.00    10.32     65.32     0.00      72.06     65.42     0.10      0.03      0.03      55.00
   3500.     773.     2682.     45.       302.      1032.     46.       245.      51.       63.00
    0.84     2.56      2.60     0.99      0.045     0.045     0.045     0.000     55.00   1766.23
0.000735     175.      175.     175.      2         0         0         0.00      310.64  2109.39

*SECNO 395.550
  395.55    10.44     65.44     0.00      72.56     65.47     0.03      0.05      0.01      55.00
   3500.      25.     3372.     102.      48.       2377.     114.      252.      52.       59.00
    0.88     0.53      1.42     0.90      0.045     0.045     0.045     0.000     55.00   1758.33
0.000158     160.      160.     160.      2         0         0         0.00      462.11  2220.44

*SECNO 396.550
  396.55    10.46     65.46     0.00      72.70     65.49     0.02      0.01      0.00      55.00
   3500.     132.     3293.     75.       129.      2654.     106.      258.      53.       60.00
    0.90     1.02      1.24     0.70      0.045     0.045     0.045     0.000     55.00   1758.64
0.000112      95.       95.      95.      2         0         0         0.00      472.98  2231.62

*SECNO 397.250
  397.25     5.45     65.45     0.00      72.71     65.51     0.05      0.01      0.01     130.00
   3500.       0.     3500.      0.       0.        1873.      0.       261.      54.       66.00
    0.91     0.00      1.87     0.00      0.000     0.020     0.000     0.000     60.00   1752.94
0.000133      65.       65.      65.      2         0         0         0.00      580.60  2333.53

*SECNO 398.150

3265 DIVIDED FLOW

  398.15     5.40     65.40     0.00      72.20     65.57     0.17      0.03      0.04      60.00
   3500.      10.     3439.     51.       7.        1022.     25.       264.      55.       62.00
    0.91     1.55      3.37     2.01      0.045     0.045     0.045     0.000     60.00   1807.55
0.001894      85.       85.      85.      2         0         0         0.00      301.66  2169.86

*SECNO 399.450
  399.45     5.66     65.66     0.00      72.97     65.78     0.12      0.21      0.01      60.00
   3500.      12.     3488.      0.       8.        1238.      0.       267.      56.       67.00
    0.93     1.48      2.82     0.00      0.045     0.045     0.000     0.000     60.00   1772.17
0.001460     125.      125.     125.      2         0         0         0.00      372.80  2144.97
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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


*SECNO 401.000
  401.00     5.84     65.84      0.00     73.55     65.88      0.04      0.09      0.01     60.00
   3500.      39.     3460.       1.       37.     2168.       2.       274.       58.      65.00
    0.96     1.08      1.60      0.31     0.045     0.045     0.045     0.000     60.00   1762.48
0.000291     165.      165.      165.       2         0         0      0.00    473.42   2235.90


*SECNO 402.500
  402.50     5.88     65.88      0.00     73.61     65.93      0.05      0.05      0.00     62.00
   3500.     193.     3307.       0.      156.     1860.       0.       281.       59.      70.00
    0.98     1.24      1.78      0.00     0.045     0.045     0.000     0.000     60.00   1765.59
0.000313     150.      150.      150.       2         0         0      0.00    404.24   2169.83


*SECNO 404.200

3265 DIVIDED FLOW

  404.20     5.83     65.83      0.00     73.53     66.13      0.29      0.12      0.07     62.00
   3500.     727.     2773.       0.      209.      609.       0.       287.       60.      66.00
    0.99     3.47      4.55      0.00     0.045     0.045     0.000     0.000     60.00   1785.89
0.003030     170.      170.      170.       2         0         0      0.00    256.30   2063.88


*SECNO 405.350

3265 DIVIDED FLOW

  405.35     6.21     66.21      0.00     74.06     66.54      0.33      0.40      0.01     60.00
   3500.    1038.     2451.      11.      261.      503.       7.       289.       61.      65.00
    1.00     3.97      4.87      1.50     0.045     0.045     0.045     0.000     60.00   1785.72
0.004086     115.      115.      115.       2         0         0      0.00    278.62   2182.09


*SECNO 406.700
  406.70     6.62     66.62      0.00     74.53     66.69      0.07      0.12      0.03     65.00
   3500.       5.     3404.      91.        8.     1597.      63.       292.       62.      60.00
    1.01     0.59      2.13      1.46     0.045     0.045     0.045     0.000     60.00   1765.29
0.000429     125.      125.      125.       2         0         0      0.00    318.61   2083.91


*SECNO 408.000
  408.00     6.69     66.69      0.00     74.87     66.73      0.03      0.04      0.00     64.00
   3500.     160.     3245.      95.      225.     2182.     101.       299.       63.      60.00
    1.04     0.71      1.49      0.94     0.045     0.045     0.045     0.000     60.00   1693.22
0.000167     140.      140.      140.       2         0         0      0.00    471.90   2165.12
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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 409.250
  409.25     3.68     66.68      0.00     74.73     66.79      0.11      0.04      0.02     69.00
   3500.       0.     3457.       43.       0.     1266.       25.      304.       64.     63.00
    1.05     0.00      2.73      1.71     0.000     0.045     0.045     0.000     63.00   1781.61
0.001250     115.      115.      115.         2         0         0      0.00    367.18   2148.79


*SECNO 410.500

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.50     1.83     66.83     66.83     74.77     67.55      0.72      0.42      0.18     67.00
   3500.       0.     3449.       51.       0.      505.       10.      307.       65.     65.00
    1.06     0.00      6.83      5.02     0.000     0.045     0.045     0.000     65.00   1777.58
0.026482     125.      125.      125.        20         8         0      0.00    363.41   2140.99


*SECNO 411.250
  411.25     1.79     68.79     68.76     75.00     69.43      0.64      1.87      0.01     68.00
   3500.       4.     3458.       38.        2.      537.       14.      308.       66.     68.00
    1.06     2.68      6.44      2.72     0.045     0.045     0.045     0.000     67.00   1706.07
0.023552      75.       75.       75.         2         8         0      0.00    414.28   2120.35


*SECNO 412.250

3301 HV CHANGED MORE THAN HVINS

  412.25     2.81     69.81      0.00     75.73     69.92      0.11      0.44      0.05     67.00
   3500.      45.     3411.       45.       26.     1268.       26.      310.       67.     67.00
    1.07     1.68      2.69      1.68     0.045     0.045     0.045     0.000     67.00   1671.21
0.001666     105.      105.      105.         3         0         0      0.00    487.58   2158.79


*SECNO 413.250
  413.25     2.98     69.98      0.00     76.29     70.04      0.06      0.11      0.01     67.00
   3500.      45.     3428.       27.       37.     1756.       22.      313.       68.     67.00
    1.09     1.22      1.95      1.21     0.045     0.045     0.045     0.000     67.00   1555.20
0.000817     100.      100.      100.         2         0         0      0.00    629.68   2184.88
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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 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=     550.100
   414.55     3.08     70.08      0.00     76.37     70.15      0.07      0.11      0.00     67.00
   3500.       0.      3500.       0.        0.     1694.       0.       318.       70. 100000.00
     1.10     0.01      2.07      0.00     0.045     0.045     0.000     0.000     67.00   1679.98
 0.000880     125.      125.      125.         2         0         0      0.00    550.02   2230.00


*SECNO 416.050
   416.05     3.21     70.21      0.00     76.63     70.28      0.07      0.13      0.00     67.00
   3500.       51.      3407.      42.       33.     1638.       32.       324.      72.      67.00
     1.12     1.53      2.08      1.30     0.045     0.045     0.045     0.000     67.00   1679.99
 0.000837     155.      155.      155.         0         0         0      0.00    545.08   2225.07


*SECNO 417.300
   417.30     3.31     70.31      0.00     76.80     70.39      0.07      0.10      0.00     67.00
   3500.       67.      3403.      30.       46.     1542.       22.       329.      74.      67.00
     1.14     1.45      2.21      1.36     0.045     0.045     0.045     0.000     67.00   1695.25
 0.000903     120.      120.      120.         0         0         0      0.00    508.01   2203.27


*SECNO 418.450
   418.45     3.42     70.42      0.00     76.86     70.52      0.10      0.13      0.01     70.00
   3500.       0.      3434.      66.        0.     1337.       40.       333.      75.      67.00
     1.15     0.40      2.57      1.64     0.045     0.045     0.045     0.000     67.00   1752.62
 0.001224     120.      120.      120.         0         0         0      0.00    426.03   2178.65


*SECNO 419.550

3265 DIVIDED FLOW

   419.55     3.56     70.56      0.00     77.26     70.65      0.10      0.13      0.00     67.00
   3500.      245.      3205.      50.      132.     1260.       31.       337.      76.      67.00
     1.17     1.86      2.54      1.58     0.045     0.045     0.045     0.000     67.00   1687.80
 0.001096     115.      115.      115.         1         0         0      0.00    452.27   2192.74


*SECNO 420.650
   420.65     3.67     70.67      0.00     77.36     70.80      0.13      0.14      0.01     67.00
   3500.      293.      3051.     156.      122.     1011.       97.       340.      77.      67.00
     1.18     2.39      3.02      1.61     0.045     0.045     0.045     0.000     67.00   1757.29
 0.001470     110.      110.      110.         1         0         0      0.00    419.49   2176.78
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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	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 422.300

422.30	3.91	70.91	0.00	77.55	71.05	0.15	0.25	0.00	68.00
3500.	20.	3249.	230.	12.	1038.	99.	345.	79.	67.00
1.19	1.64	3.13	2.32	0.045	0.045	0.045	0.000	67.00	1841.45
0.001603	180.	160.	140.	2	0	0	0.00	340.34	2181.79

*SECNO 423.650

423.65	2.16	71.16	0.00	77.72	71.57	0.41	0.44	0.08	69.00
3500.	22.	3455.	23.	7.	670.	7.	347.	80.	69.00
1.20	3.14	5.16	3.15	0.045	0.045	0.045	0.000	69.00	1833.52
0.008744	170.	140.	120.	2	0	0	0.00	323.23	2156.75

THIS RUN EXECUTED: Thu 22-JAN-1987 10:59:28.43

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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T1      INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2      EA # 1192.2:  SCOTTSDALE LAKES GOLF COURSE:  USCE'S HIGH "n" VALUES
T3      DESIGN CONDITIONS(5A )              (1192D5A)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0.        7.        0.        0.  0.000000     -1.00       0.0        0.     0.000     0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
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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


*PROF 6

CCHV=   0.100 CEHV=   0.300
*SECNO 314.630
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
   314.63     2.90    47.10     0.00     0.00    47.35     0.25     0.00     0.00    44.20
    1000.       0.    1000.       0.       0.     250.       0.       0.       0.    45.00
     0.00     0.02     4.00     0.02    0.045    0.045    0.045    0.000    44.20  2550.05
 0.004333       0.       0.       0.        0        0        0     0.00   100.00  2650.04


*SECNO 319.760

3470 ENCROACHMENT STATIONS=    2440.0    2650.0  TYPE=     1  TARGET=     210.000
   319.76     2.92    49.22     0.00    53.82    49.40     0.17     2.04     0.01    52.30
    1000.       0.     969.      31.       0.     287.      14.       3.       1.    47.00
     0.04     0.00     3.38     2.14    0.000    0.045    0.045    0.000    46.30  2483.54
 0.003705     510.     510.     510.        2        0        0     0.00   144.43  2627.97


*SECNO 326.350

3470 ENCROACHMENT STATIONS=    2420.0    2610.0  TYPE=     1  TARGET=     190.000
   326.35     3.36    50.76     0.00    54.68    50.85     0.10     1.45     0.01    53.00
    1000.       0.     965.      35.       0.     382.      22.       8.       4.    48.00
     0.11     0.00     2.52     1.56    0.000    0.045    0.045    0.000    47.40  2437.92
 0.001490     650.     650.     650.        3        0        0     0.00   153.19  2591.10


*SECNO 332.150

3470 ENCROACHMENT STATIONS=    2365.0    2625.0  TYPE=     1  TARGET=     260.000
   332.15     1.68    52.68     0.00    55.33    53.01     0.33     2.08     0.07    56.00
    1000.       0.    1000.       0.       0.     217.       0.      13.       6.    54.00
     0.15     0.00     4.60     0.00    0.000    0.045    0.000    0.000    51.00  2381.62
 0.018598     575.     575.     575.        3        0        0     0.00   210.13  2591.75


*SECNO 336.200

3470 ENCROACHMENT STATIONS=    2320.0    2585.0  TYPE=     1  TARGET=     265.000
   336.20     1.87    54.87     0.00    56.06    54.96     0.08     1.93     0.02    53.00
    1000.      13.     979.       8.       9.     422.       6.      16.       8.    53.00
     0.20     1.44     2.32     1.42    0.045    0.045    0.045    0.000    53.00  2330.62
 0.002129     405.     405.     405.        4        0        0     0.00   240.64  2571.26
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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 341.600

3470 ENCROACHMENT STATIONS=    2275.0    2445.0  TYPE=     1  TARGET=     170.000
   341.60     2.08     57.08     0.00     61.48     57.50     0.42      2.44      0.10     56.00
   1000.      14.      986.      0.        5.      189.      0.        20.       11.      57.00
    0.23      2.76     5.21      0.04     0.045     0.045    0.045     0.000     55.00   2290.94
 0.015898     535.     535.      535.       4         0        0       0.00     144.49   2435.43


*SECNO 346.950

3470 ENCROACHMENT STATIONS=    2230.0    2415.0  TYPE=     1  TARGET=     185.000
   346.95     4.09     59.09     0.00     63.27     59.18     0.10      1.65      0.03     57.00
   1000.       9.      965.      26.       7.      380.      17.       23.       12.      56.00
    0.29      1.18     2.54      1.53     0.045     0.045    0.045     0.000     55.00   2263.05
 0.001271     535.     535.      535.       5         0        0       0.00     137.98   2401.02


*SECNO 351.180

3470 ENCROACHMENT STATIONS=    2190.0    2360.0  TYPE=     1  TARGET=     170.000
   351.18     2.74     59.74     0.00     64.05     59.87     0.13      0.68      0.01     57.00
   1000.      35.      900.      65.       19.      302.      27.       27.       14.      57.00
    0.33      1.86     2.98      2.37     0.045     0.045    0.045     0.000     57.00   2206.29
 0.002128     420.     420.      420.       4         0        0       0.00     139.52   2345.81


*SECNO 356.690

3470 ENCROACHMENT STATIONS=    2165.0    2420.0  TYPE=     1  TARGET=     255.000
   356.69     3.22     60.92     0.00     65.24     61.03     0.11      1.15      0.00     62.00
   1000.       0.      882.      118.       0.      325.      61.       31.       16.      58.00
    0.38      0.00     2.72      1.94     0.000     0.045    0.045     0.000     57.70   2185.33
 0.002090     545.     545.      545.       2         0        0       0.00     176.32   2361.65


*SECNO 360.850

3470 ENCROACHMENT STATIONS=    2100.0    2260.0  TYPE=     1  TARGET=     160.000
   360.85     6.36     61.36     0.00     65.79     61.42     0.06      0.39      0.00     60.00
   1000.       4.      986.      10.       6.      483.      12.       36.       17.      59.00
    0.44      0.59     2.04      0.84     0.045     0.045    0.045     0.000     55.00   2110.96
 0.000540     415.     415.      415.       2         0        0       0.00     129.14   2240.10
```

```
  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 365.100

3470 ENCROACHMENT STATIONS=    2060.0    2390.0  TYPE=     1  TARGET=     330.000
   365.10     6.57    61.57      0.00    67.42    61.59     0.02      0.16      0.00     60.00
    1000.       6.     991.        3.      12.     817.       7.       42.       19.     60.00
     0.54     0.48     1.21      0.48    0.045    0.045    0.045     0.000     55.00   2074.32
 0.000295     420.     420.      420.        2        0        0      0.00    284.64   2358.96


CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
   367.08     6.63    61.63      0.00    67.77    61.68     0.05      0.08     0.01100000.00
    1000.       0.    1000.        0.       0.     551.       0.       45.       20.     60.00
     0.57     0.00     1.82      0.01    0.000    0.035    0.045     0.000     55.00   2155.08
 0.000531     200.     200.      200.        2        0        0      0.00    214.94   2370.02


*SECNO 367.180

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
   367.18     6.63    61.63      0.00    67.78    61.69     0.06      0.00     0.01100000.00
    1000.       0.    1000.        0.       0.     490.       0.       45.       20.     60.00
     0.57     0.00     2.04      0.01    0.000    0.025    0.035     0.000     55.00   2155.08
 0.000382      10.      10.       10.        0        0        0      0.00    196.92   2370.02


*SECNO 367.980

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
   367.98     6.66    61.66      0.00    67.90    61.73     0.06      0.03     0.00100000.00
    1000.       0.    1000.        0.       0.     496.       0.       46.       21.     60.00
     0.58     0.00     2.02      0.01    0.000    0.025    0.035     0.000     55.00   2155.08
 0.000368      80.      80.       80.        0        0        0      0.00    196.93   2370.02
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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 368.220

3470 ENCROACHMENT STATIONS=    2120.0    2365.1  TYPE=     1  TARGET=     245.100
   368.22     6.74    61.74     0.00    67.89    61.74     0.01     0.00     0.02    56.00
    1000.      36.     919.      45.      82.    1192.      85.      47.      21.    55.00
     0.59     0.44     0.77     0.53    0.045    0.045    0.045    0.000    55.00  2136.32
 0.000044     120.      30.      30.        2        0        0     0.00   228.70  2365.02


CCHV=   0.100 CEHV=   0.300
*SECNO 369.300

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2055.0    2370.1  TYPE=     1  TARGET=     315.100
   369.30     6.74    61.74     0.00    68.33    61.75     0.01     0.01     0.00    55.00
    1000.      99.     883.      18.     115.     887.      27.      50.      21.    58.00
     0.62     0.87     1.00     0.64    0.045    0.045    0.045    0.000    55.00  2079.39
 0.000125     110.     100.     100.        1        0        0     0.00   244.95  2370.02


*SECNO 370.210

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2050.0    2355.1  TYPE=     1  TARGET=     305.100
   370.21     6.75    61.75     0.00    68.46    61.78     0.03     0.02     0.00    55.00
    1000.     220.     776.       4.     151.     576.       8.      52.      22.    60.00
     0.64     1.46     1.35     0.55    0.045    0.045    0.045    0.000    55.00  2066.27
 0.000344     100.     100.     100.        0        0        0     0.00   228.98  2348.73


*SECNO 372.000

3470 ENCROACHMENT STATIONS=    2030.0    2340.0  TYPE=     1  TARGET=     310.010
   372.00     6.80    61.80     0.00    68.69    61.82     0.02     0.04     0.00    55.00
    1000.     108.     859.      32.     128.     778.      49.      55.      23.    57.00
     0.69     0.85     1.10     0.67    0.045    0.045    0.045    0.000    55.00  2062.27
 0.000131     200.     180.     180.        0        0        0     0.00   213.01  2275.27
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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 374.350

3470 ENCROACHMENT STATIONS=    1975.0    2350.0  TYPE=     1  TARGET=     375.000
  374.35     6.83     61.83     0.00     69.12     61.84     0.02      0.03      0.00     55.00
   1000.     153.      840.      7.      164.      802.      13.       60.       24.      59.00
    0.74     0.94      1.05     0.51     0.045     0.045    0.045     0.000     55.00   1997.16
0.000158     205.      190.     190.       1         0        0      0.00    257.29   2254.45


*SECNO 375.200

3470 ENCROACHMENT STATIONS=    1990.0    2330.0  TYPE=     1  TARGET=     340.000
  375.20     6.84     61.84     0.00     69.14     61.86     0.02      0.01      0.00     55.00
   1000.      80.      920.      0.       82.      758.       0.       61.       24.      68.00
    0.76     0.97      1.21     0.00     0.045     0.045    0.000     0.000     55.00   2021.06
0.000177      85.       85.      85.       0         0        0      0.00    188.50   2209.56


*SECNO 377.050
  377.05     6.86     61.86     0.00     70.41     61.87     0.00      0.01      0.00     55.00
   1000.      44.      908.      48.      130.     1647.     145.       67.       25.      55.00
    0.85     0.34      0.55     0.33     0.045     0.045    0.045     0.000     55.00   1967.26
0.000021     150.      165.     150.       0         0        0      0.00    330.23   2297.48


*SECNO 379.380

3265 DIVIDED FLOW

  379.38     6.86     61.86     0.00     70.46     61.89     0.03      0.01      0.01     55.00
   1000.     205.      772.      23.      160.      586.      28.       74.       27.      58.00
    0.90     1.28      1.32     0.82     0.045     0.045    0.045     0.000     55.00   1987.09
0.000267     230.      230.     230.       2         0        0      0.00    220.52   2249.76


*SECNO 380.850
  380.85     6.89     61.89     0.00     71.08     61.90     0.01      0.01      0.00     55.00
   1000.     361.      629.      10.      580.      951.      27.       78.       28.      57.00
    0.96     0.62      0.66     0.36     0.045     0.045    0.045     0.000     55.00   1978.94
0.000040     160.      140.     140.       1         0        0      0.00    301.92   2280.86
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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


*SECNO 383.100

3265 DIVIDED FLOW

   383.10     6.91     61.91      0.00     71.46     61.91      0.01      0.01      0.00     55.00
    1000.     503.      483.       14.      763.      597.       49.       85.       29.     60.00
     1.04     0.66      0.81      0.28     0.045     0.045     0.045     0.000     55.00   1891.98
 0.000075     230.      220.      220.         2         0         0      0.00    405.66   2348.23


*SECNO 385.000

3265 DIVIDED FLOW

   385.00     6.92     61.92      0.00     71.62     61.93      0.01      0.02      0.00     55.00
    1000.     119.      878.        2.      162.      996.        6.       90.       31.     60.00
     1.10     0.74      0.88      0.38     0.045     0.045     0.045     0.000     55.00   1907.00
 0.000151     185.      170.      110.         0         0         0      0.00    427.23   2346.38


*SECNO 386.750

3265 DIVIDED FLOW

   386.75     6.95     61.95      0.00     71.76     61.96      0.01      0.03      0.00     59.00
    1000.     231.      757.       12.      242.      779.       20.       95.       33.     59.00
     1.15     0.95      0.97      0.61     0.045     0.045     0.045     0.000     55.00   1930.30
 0.000213     170.      170.      160.         0         0         0      0.00    373.43   2358.36


*SECNO 388.650

3265 DIVIDED FLOW

   388.65     6.99     61.99      0.00     72.02     61.99      0.01      0.03      0.00     55.00
    1000.     255.      736.       10.      369.      955.       20.      100.       34.     59.00
     1.22     0.69      0.77      0.48     0.045     0.045     0.045     0.000     55.00   1836.23
 0.000127     190.      190.      190.         0         0         0      0.00    496.94   2363.35


*SECNO 391.350
   391.35     7.00     62.00      0.00     72.12     62.01      0.01      0.01      0.00     59.00
    1000.      14.      980.        6.       45.      1709.      19.      106.       36.     59.00
     1.30     0.31      0.57      0.31     0.045     0.045     0.045     0.000     55.00   1859.92
 0.000052     160.      160.      160.         1         0         0      0.00    497.74   2357.66
```

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 392.210

392.21	7.01	62.01	0.00	72.20	62.02	0.01	0.01	0.00	55.00
1000.	157.	837.	7.	237.	1411.	20.	113.	38.	59.00
1.38	0.66	0.59	0.33	0.045	0.045	0.045	0.000	55.00	1754.42
0.000061	185.	185.	185.	0	0	0	0.00	478.51	2232.94

*SECNO 394.000

394.00	7.01	62.01	0.00	72.06	62.05	0.04	0.02	0.01	55.00
1000.	103.	897.	0.	110.	509.	0.	118.	40.	63.00
1.41	0.93	1.76	0.00	0.045	0.045	0.000	0.000	55.00	1777.89
0.000286	175.	175.	175.	1	0	0	0.00	142.18	1920.07

*SECNO 395.550

395.55	7.08	62.08	0.00	72.56	62.09	0.01	0.03	0.00	55.00
1000.	7.	978.	15.	13.	1113.	26.	121.	41.	59.00
1.46	0.58	0.88	0.56	0.045	0.045	0.045	0.000	55.00	1806.46
0.000167	160.	160.	160.	2	0	0	0.00	395.45	2201.92

*SECNO 396.550

396.55	7.09	62.09	0.00	72.70	62.10	0.01	0.01	0.00	55.00
1000.	40.	955.	5.	56.	1323.	15.	124.	41.	60.00
1.50	0.71	0.72	0.33	0.045	0.045	0.045	0.000	55.00	1774.23
0.000095	95.	95.	95.	0	0	0	0.00	425.45	2199.68

*SECNO 397.250

397.25	2.05	62.05	0.00	72.71	62.14	0.09	0.01	0.02	130.00
1000.	0.	1000.	0.	0.	422.	0.	125.	42.	66.00
1.51	0.00	2.37	0.00	0.000	0.020	0.000	0.000	60.00	1934.88
0.000594	65.	65.	65.	2	0	0	0.00	281.95	2216.83

*SECNO 398.150

398.15	1.97	61.97	0.00	72.20	62.36	0.39	0.13	0.09	60.00
1000.	2.	998.	0.	1.	198.	0.	125.	42.	62.00
1.51	1.83	5.03	0.00	0.045	0.045	0.000	0.000	60.00	1809.11
0.010206	85.	85.	85.	2	0	0	0.00	107.69	1916.79

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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 399.450
  399.45     2.80     62.80      0.00     72.97     62.95      0.16      0.57      0.02     60.00
   1000.       2.      998.       0.        2.      313.        0.      126.       43.     67.00
    1.52      1.22      3.19      0.00     0.045     0.045     0.000     0.000     60.00   1773.60
0.002575      125.      125.      125.         2         0         0      0.00    120.37   1893.97


*SECNO 401.000
  401.00     3.03     63.03      0.00     73.55     63.05      0.01      0.08      0.01     60.00
   1000.       6.      994.       0.       10.      1037.       0.      129.       44.     65.00
    1.57      0.57      0.96      0.00     0.045     0.045     0.000     0.000     60.00   1768.51
0.000199      165.      165.      165.         2         0         0      0.00    356.62   2125.13


*SECNO 402.500
  402.50     3.07     63.07      0.00     73.61     63.08      0.02      0.04      0.00     62.00
   1000.       9.      991.       0.       23.      899.       0.      132.       45.     70.00
    1.61      0.39      1.10      0.00     0.045     0.045     0.000     0.000     60.00   1779.67
0.000296      150.      150.      150.         2         0         0      0.00    372.96   2152.63


*SECNO 404.200

3265 DIVIDED FLOW

  404.20     3.05     63.05      0.00     73.53     63.27      0.23      0.13      0.06     62.00
   1000.      32.      968.       0.       22.      250.       0.      135.       46.     66.00
    1.62      1.47      3.87      0.00     0.045     0.045     0.000     0.000     60.00   1849.16
0.004399      170.      170.      170.         2         0         0      0.00    146.64   2045.32


*SECNO 405.350
  405.35     3.47     63.47      0.00     74.06     63.66      0.19      0.38      0.00     60.00
   1000.     105.      895.       0.       43.      249.       0.      135.       46.     65.00
    1.63      2.44      3.59      0.00     0.045     0.045     0.000     0.000     60.00   1874.78
0.002561      115.      115.      115.         2         0         0      0.00    114.09   1988.87


*SECNO 406.700
  406.70     3.73     63.73      0.00     74.53     63.76      0.02      0.08      0.02     65.00
   1000.       0.      984.      16.        0.      790.      20.      137.       47.     60.00
    1.66      0.00      1.25      0.83     0.000     0.045     0.045     0.000     60.00   1822.57
0.000295      125.      125.      125.         2         0         0      0.00    253.09   2075.66
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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 408.000
  408.00     3.77     63.77      0.00     74.87     63.78      0.01      0.02      0.00     64.00
   1000.       0.      983.       17.       0.     1203.       32.      140.       48.     60.00
    1.71     0.00      0.82      0.52     0.000     0.045     0.045     0.000     60.00   1801.72
0.000111     140.      140.      140.         2         0         0      0.00    350.24   2151.97


*SECNO 409.250
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  409.25     0.65     63.65     63.65     74.73     63.97      0.32      0.05      0.09     69.00
   1000.       0.      998.        2.       0.      218.        1.      142.       49.     63.00
    1.71     0.00      4.57      2.82     0.000     0.045     0.045     0.000     63.00   1796.76
0.034399     115.      115.      115.        20        20         0      0.00    340.67   2137.43


*SECNO 410.500
  410.50     1.20     66.20      0.00     74.77     66.38      0.18      2.39      0.01     67.00
   1000.       0.      989.       11.       0.      291.        4.      143.       50.     65.00
    1.72     0.00      3.40      2.57     0.000     0.045     0.045     0.000     65.00   1806.02
0.012187     125.      125.      125.         5         0         0      0.00    331.18   2137.20


*SECNO 411.250
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  411.25     0.90     67.90     67.90     75.00     68.25      0.35      1.43      0.05     68.00
   1000.       0.     1000.        0.       0.      211.        0.      143.       50.     68.00
    1.73     0.00      4.74      0.00     0.000     0.045     0.000     0.000     67.00   1769.43
0.034175      75.       75.       75.         3        12         0      0.00    308.62   2078.05


*SECNO 412.250
  412.25     1.56     68.56      0.00     75.73     68.59      0.03      0.31      0.03     67.00
   1000.       7.      986.        7.       8.      702.        8.      144.       51.     67.00
    1.75     0.88      1.40      0.88     0.045     0.045     0.045     0.000     67.00   1679.60
0.001000     105.      105.      105.         4         0         0      0.00    470.80   2150.40


*SECNO 413.250
  413.25     1.64     68.64      0.00     76.29     68.66      0.02      0.07      0.00     67.00
   1000.       7.      989.        4.      11.      968.        7.      146.       52.     67.00
    1.78     0.64      1.02      0.63     0.045     0.045     0.045     0.000     67.00   1566.32
0.000494     100.      100.      100.         3         0         0      0.00    611.88   2178.21
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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 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=     550.100
   414.55     1.70     68.70     0.00     76.37     68.72     0.02      0.06      0.00     67.00
    1000.      0.      1000.      0.       0.       937.      0.       149.       54. 100000.00
     1.81     0.01      1.07     0.00     0.000     0.045    0.000     0.000    67.00  1679.99
 0.000516    125.      125.     125.        2         0        0      0.00   550.01  2230.00


*SECNO 416.050
   416.05     1.78     68.78     0.00     76.63     68.80     0.02      0.08      0.00     67.00
    1000.      8.      985.      7.       12.      908.      10.       152.       56.      67.00
     1.85     0.68      1.08     0.68     0.045     0.045    0.045     0.000    67.00  1681.64
 0.000500    155.      155.     155.        0         0        0      0.00   534.49  2216.13


*SECNO 417.300
   417.30     1.84     68.84     0.00     76.80     68.86     0.02      0.06      0.00     67.00
    1000.      10.      985.      5.       14.      857.      7.       155.       57.      67.00
     1.88     0.72      1.15     0.71     0.045     0.045    0.045     0.000    67.00  1709.65
 0.000537    120.      120.     120.        0         0        0      0.00   487.72  2197.37


*SECNO 418.450
   418.45     1.91     68.91     0.00     76.86     68.94     0.03      0.08      0.00     70.00
    1000.      0.      989.      11.       0.      732.      13.       157.       59.      67.00
     1.90     0.00      1.35     0.87     0.000     0.045    0.045     0.000    67.00  1755.00
 0.000754    120.      120.     120.        0         0        0      0.00   413.18  2168.18


*SECNO 419.550
   419.55     1.99     68.99     0.00     77.26     69.02     0.03      0.08      0.00     67.00
    1000.      40.      952.      8.       42.      705.      10.       159.       60.      67.00
     1.93     0.94      1.35     0.84     0.045     0.045    0.045     0.000    67.00  1775.34
 0.000670    115.      115.     115.        0         0        0      0.00   409.59  2184.93


*SECNO 420.650
   420.65     2.07     69.07     0.00     77.36     69.11     0.04      0.09      0.00     67.00
    1000.      58.      924.      18.       47.      570.      18.       161.       61.      67.00
     1.95     1.24      1.62     1.02     0.045     0.045    0.045     0.000    67.00  1771.59
 0.000912    110.      110.     110.        0         0        0      0.00   330.68  2102.27
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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 422.300
   422.30     2.23     69.23      0.00     77.55     69.27      0.04      0.16      0.00     68.00
    1000.       2.      960.       39.       2.      560.       33.      163.       62.     67.00
     1.97     0.76      1.71      1.17     0.045     0.045     0.045     0.000     67.00   1846.39
 0.001095     180.      160.      140.         2         0         0      0.00    318.31   2164.70


*SECNO 423.650
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   423.65     0.68     69.68     69.68     77.72     70.03      0.34      0.44      0.09     69.00
    1000.       2.      996.        2.        1.      212.        1.      164.       63.     69.00
     1.98     2.86      4.71      2.87     0.045     0.045     0.045     0.000     69.00   1837.95
 0.033812     170.      140.      120.        20        17         0      0.00    314.18   2152.13
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THIS RUN EXECUTED: Thu 22-JAN-1987 11:01:10.54

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*************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

DESIGN CONDITIONS(5A)

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	314.630	0.00	0.00	0.00	44.20	30000.00	52.78	51.38	53.29	33.89	7.80	5538.27	5153.33
*	314.630	0.00	0.00	0.00	44.20	20000.00	50.63	50.63	51.69	109.19	11.44	2855.29	1913.95
*	314.630	0.00	0.00	0.00	44.20	17000.00	50.39	50.39	51.39	106.28	10.98	2556.94	1648.99
*	314.630	0.00	0.00	0.00	44.20	12000.00	50.00	50.00	50.81	90.38	9.67	2065.75	1262.23
*	314.630	0.00	0.00	0.00	44.20	3500.00	48.63	48.63	49.24	68.01	6.90	749.34	424.40
	314.630	0.00	0.00	0.00	44.20	1000.00	47.10	0.00	47.35	43.33	4.00	249.88	151.92
	319.760	510.00	0.00	0.00	46.30	30000.00	53.82	51.18	54.33	13.58	3.95	5432.50	8140.13
	319.760	510.00	0.00	0.00	46.30	20000.00	52.76	0.00	53.11	11.65	3.20	4394.17	5858.37
	319.760	510.00	0.00	0.00	46.30	17000.00	52.42	0.00	52.71	10.72	2.92	4058.68	5193.27
	319.760	510.00	0.00	0.00	46.30	12000.00	51.73	0.00	51.93	9.04	2.48	3407.74	3991.05
	319.760	510.00	0.00	0.00	46.30	3500.00	51.53	0.00	51.94	42.07	5.23	686.87	539.64
	319.760	510.00	0.00	0.00	46.30	1000.00	49.22	0.00	49.40	37.05	3.38	301.20	164.29
	326.350	650.00	0.00	0.00	47.00	30000.00	54.68	52.08	55.19	12.89	4.02	5425.24	8356.10
	326.350	650.00	0.00	0.00	47.00	20000.00	53.51	0.00	53.88	11.73	3.34	4254.51	5838.86
	326.350	650.00	0.00	0.00	47.00	17000.00	53.11	0.00	53.43	11.14	3.08	3863.44	5093.92
	326.350	650.00	0.00	0.00	47.00	12000.00	52.32	0.00	52.56	9.98	2.65	3149.11	3799.08
	326.350	650.00	0.00	0.00	47.40	3500.00	53.45	0.00	53.71	18.73	4.18	866.30	808.62
	326.350	650.00	0.00	0.00	47.40	1000.00	50.76	0.00	50.85	14.90	2.52	404.67	259.09
	332.150	575.00	0.00	0.00	47.00	30000.00	55.33	52.77	55.98	13.11	2.73	4962.49	8286.20
	332.150	575.00	0.00	0.00	47.00	20000.00	54.10	0.00	54.57	11.34	1.94	3923.54	5938.18
	332.150	575.00	0.00	0.00	47.00	17000.00	53.68	0.00	54.08	10.62	1.67	3571.37	5215.60
	332.150	575.00	0.00	0.00	47.00	12000.00	52.83	0.00	53.13	9.37	1.13	2885.90	3920.30
	332.150	575.00	0.00	0.00	51.00	3500.00	54.98	0.00	55.33	45.06	4.74	741.30	521.39
	332.150	575.00	0.00	0.00	51.00	1000.00	52.68	0.00	53.01	185.98	4.60	217.26	73.33
*	336.200	405.00	0.00	0.00	50.00	30000.00	56.06	56.06	57.80	175.24	9.21	2855.46	2266.23
*	336.200	405.00	0.00	0.00	50.00	20000.00	55.17	55.17	56.56	190.85	7.65	2149.20	1447.70
*	336.200	405.00	0.00	0.00	50.00	17000.00	54.89	54.89	56.14	193.42	7.02	1928.38	1222.37
*	336.200	405.00	0.00	0.00	50.00	12000.00	54.48	54.48	55.39	169.09	5.57	1606.69	922.83
	336.200	405.00	0.00	0.00	53.00	3500.00	56.55	0.00	56.82	30.19	4.22	849.82	637.04
	336.200	405.00	0.00	0.00	53.00	1000.00	54.87	0.00	54.96	21.29	2.32	436.92	216.70

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
341.600	535.00	0.00	0.00	55.00	30000.00	61.48	59.71	62.19	45.73	7.20	4431.23	4436.45
341.600	535.00	0.00	0.00	55.00	20000.00	60.39	0.00	60.91	43.52	6.12	3481.91	3031.73
341.600	535.00	0.00	0.00	55.00	17000.00	60.01	0.00	60.47	42.98	5.75	3147.32	2593.10
341.600	535.00	0.00	0.00	55.00	12000.00	59.23	0.00	59.60	44.49	5.12	2465.31	1799.12
341.600	535.00	0.00	0.00	55.00	3500.00	58.92	0.00	59.78	110.32	7.58	481.37	333.23
341.600	535.00	0.00	0.00	55.00	1000.00	57.08	0.00	57.50	158.98	5.21	194.15	79.31
346.950	535.00	0.00	0.00	55.00	30000.00	63.27	59.78	63.62	16.80	5.11	6321.47	7318.79
346.950	535.00	0.00	0.00	55.00	20000.00	61.98	0.00	62.23	15.37	4.30	5045.56	5101.91
346.950	535.00	0.00	0.00	55.00	17000.00	61.54	0.00	61.75	14.82	4.02	4605.20	4415.97
346.950	535.00	0.00	0.00	55.00	12000.00	60.68	0.00	60.84	13.83	3.48	3767.52	3226.88
346.950	535.00	0.00	0.00	55.00	3500.00	61.60	0.00	61.92	19.81	4.68	802.83	786.36
346.950	535.00	0.00	0.00	55.00	1000.00	59.09	0.00	59.18	12.71	2.54	404.60	280.52
351.180	420.00	0.00	0.00	57.00	30000.00	64.05	61.41	64.50	24.95	6.07	5613.01	6005.62
351.180	420.00	0.00	0.00	57.00	20000.00	62.74	0.00	63.08	25.84	5.38	4302.86	3934.16
351.180	420.00	0.00	0.00	57.00	17000.00	62.29	0.00	62.59	26.42	5.15	3850.87	3307.21
351.180	420.00	0.00	0.00	57.00	12000.00	61.42	0.00	61.67	28.23	4.73	3005.96	2258.64
351.180	420.00	0.00	0.00	57.00	3500.00	62.47	0.00	62.81	22.10	4.82	774.51	744.50
351.180	420.00	0.00	0.00	57.00	1000.00	59.74	0.00	59.87	21.28	2.98	347.88	216.80
356.690	545.00	0.00	0.00	56.00	30000.00	65.24	61.73	65.55	14.94	4.37	6739.11	7762.11
356.690	545.00	0.00	0.00	56.00	20000.00	63.89	0.00	64.12	14.28	3.65	5249.55	5293.10
356.690	545.00	0.00	0.00	56.00	17000.00	63.42	0.00	63.63	14.00	3.38	4739.39	4543.35
356.690	545.00	0.00	0.00	56.00	12000.00	62.54	0.00	62.70	13.24	2.85	3802.69	3297.54
356.690	545.00	0.00	0.00	57.70	3500.00	63.67	0.00	63.88	17.36	3.87	970.09	840.09
356.690	545.00	0.00	0.00	57.70	1000.00	60.92	0.00	61.03	20.90	2.72	385.69	218.73
360.850	415.00	0.00	0.00	55.00	30000.00	65.79	63.74	66.71	42.79	9.17	3984.71	4586.31
360.850	415.00	0.00	0.00	55.00	20000.00	64.50	0.00	65.17	38.90	7.86	3139.07	3206.56
360.850	415.00	0.00	0.00	55.00	17000.00	64.05	0.00	64.64	37.38	7.40	2850.00	2780.67
360.850	415.00	0.00	0.00	55.00	12000.00	63.17	0.00	63.63	34.59	6.52	2297.73	2040.29
360.850	415.00	0.00	0.00	55.00	3500.00	64.21	0.00	64.46	11.14	4.10	909.39	1048.44
360.850	415.00	0.00	0.00	55.00	1000.00	61.36	0.00	61.42	5.40	2.04	500.69	430.49
365.100	420.00	0.00	0.00	55.00	30000.00	67.42	64.03	67.85	17.22	5.91	5871.57	7230.38
365.100	420.00	0.00	0.00	55.00	20000.00	65.90	0.00	66.22	16.49	5.11	4580.95	4925.72
365.100	420.00	0.00	0.00	55.00	17000.00	65.38	0.00	65.66	16.22	4.83	4142.30	4221.57
365.100	420.00	0.00	0.00	55.00	12000.00	64.38	0.00	64.60	15.79	4.30	3319.71	3020.05
365.100	420.00	0.00	0.00	55.00	3500.00	64.65	0.00	64.72	3.38	2.05	1775.29	1904.27
365.100	420.00	0.00	0.00	55.00	1000.00	61.57	0.00	61.59	2.95	1.21	835.91	582.08
367.080	200.00	0.00	0.00	55.00	30000.00	67.77	65.33	68.22	18.93	6.30	5789.27	6896.03
367.080	200.00	0.00	0.00	55.00	20000.00	66.21	0.00	66.62	19.00	6.19	4299.13	4588.69
367.080	200.00	0.00	0.00	55.00	17000.00	65.68	0.00	66.06	19.05	6.11	3801.81	3895.09
367.080	200.00	0.00	0.00	55.00	12000.00	64.66	0.00	65.02	19.68	5.83	2889.53	2704.85
367.080	200.00	0.00	0.00	55.00	3500.00	64.70	0.00	64.83	4.80	2.89	1210.23	1597.05
367.080	200.00	0.00	0.00	55.00	1000.00	61.63	0.00	61.68	5.31	1.82	550.81	434.13

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
367.180	10.00	0.00	0.00	55.00	30000.00	67.78	65.38	68.24	12.64	6.26	5657.31	8438.35
367.180	10.00	0.00	0.00	55.00	20000.00	66.22	0.00	66.64	12.85	6.35	4165.60	5578.71
367.180	10.00	0.00	0.00	55.00	17000.00	65.68	0.00	66.09	12.96	6.31	3677.42	4722.82
367.180	10.00	0.00	0.00	55.00	12000.00	64.66	0.00	65.05	13.47	6.12	2781.76	3269.38
367.180	10.00	0.00	0.00	55.00	3500.00	64.69	0.00	64.85	3.67	3.20	1092.46	1825.77
367.180	10.00	0.00	0.00	55.00	1000.00	61.63	0.00	61.69	3.82	2.04	489.68	511.40
367.980	80.00	0.00	0.00	55.00	30000.00	67.90	65.38	68.34	11.85	6.12	5774.92	8715.54
367.980	80.00	0.00	0.00	55.00	20000.00	66.35	0.00	66.75	11.98	6.13	4276.94	5778.80
367.980	80.00	0.00	0.00	55.00	17000.00	65.82	0.00	66.20	11.98	6.09	3786.92	4912.20
367.980	80.00	0.00	0.00	55.00	12000.00	64.80	0.00	65.16	12.11	5.87	2891.81	3448.82
367.980	80.00	0.00	0.00	55.00	3500.00	64.72	0.00	64.88	3.62	3.19	1097.68	1839.34
367.980	80.00	0.00	0.00	55.00	1000.00	61.66	0.00	61.73	3.68	2.02	495.60	521.40
368.220	30.00	0.00	0.00	55.00	30000.00	67.89	64.70	68.58	18.89	7.84	5124.31	6902.00
368.220	30.00	0.00	0.00	55.00	20000.00	66.38	0.00	66.91	16.19	6.68	3962.22	4970.24
368.220	30.00	0.00	0.00	55.00	17000.00	65.86	0.00	66.33	14.98	6.23	3576.88	4391.68
368.220	30.00	0.00	0.00	55.00	12000.00	64.88	0.00	65.23	12.13	5.26	2885.28	3444.92
368.220	30.00	0.00	0.00	55.00	3500.00	64.87	0.00	64.92	1.38	1.77	2101.61	2980.73
368.220	30.00	0.00	0.00	55.00	1000.00	61.74	0.00	61.74	0.44	0.77	1359.42	1511.10
369.300	100.00	0.00	0.00	55.00	30000.00	68.33	64.79	68.78	16.03	6.19	5824.08	7493.34
369.300	100.00	0.00	0.00	55.00	20000.00	66.75	0.00	67.09	15.23	5.39	4527.40	5124.41
369.300	100.00	0.00	0.00	55.00	17000.00	66.19	0.00	66.50	14.98	5.11	4072.99	4392.17
369.300	100.00	0.00	0.00	55.00	12000.00	65.13	0.00	65.38	14.45	4.56	3209.86	3156.87
369.300	100.00	0.00	0.00	55.00	3500.00	64.89	0.00	64.94	2.41	1.82	1969.20	2254.12
369.300	100.00	0.00	0.00	55.00	1000.00	61.74	0.00	61.75	1.25	1.00	1028.54	894.52
370.210	100.00	0.00	0.00	55.00	30000.00	68.46	65.47	68.99	21.98	6.62	5214.02	6399.35
370.210	100.00	0.00	0.00	55.00	20000.00	66.88	0.00	67.29	22.13	5.83	3995.76	4251.48
370.210	100.00	0.00	0.00	55.00	17000.00	66.33	0.00	66.70	22.29	5.56	3575.58	3600.59
370.210	100.00	0.00	0.00	55.00	12000.00	65.26	0.00	65.58	23.44	5.08	2755.83	2478.72
370.210	100.00	0.00	0.00	55.00	3500.00	64.90	0.00	64.98	4.70	2.18	1591.80	1615.18
370.210	100.00	0.00	0.00	55.00	1000.00	61.75	0.00	61.78	3.44	1.35	735.35	539.14
372.000	180.00	0.00	0.00	55.00	30000.00	68.69	66.49	69.55	26.97	8.91	4447.78	5777.00
372.000	180.00	0.00	0.00	55.00	20000.00	67.12	0.00	67.82	25.01	7.81	3398.52	3998.86
372.000	180.00	0.00	0.00	55.00	17000.00	66.58	0.00	67.22	24.15	7.40	3033.68	3458.96
372.000	180.00	0.00	0.00	55.00	12000.00	65.54	0.00	66.07	21.74	6.52	2351.23	2573.77
372.000	180.00	0.00	0.00	55.00	3500.00	64.97	0.00	65.04	2.81	2.24	1687.35	2087.14
372.000	180.00	0.00	0.00	55.00	1000.00	61.80	0.00	61.82	1.31	1.10	954.43	872.63
374.350	190.00	0.00	0.00	55.00	30000.00	69.12	65.98	70.15	29.13	8.97	3859.24	5558.42
374.350	190.00	0.00	0.00	55.00	20000.00	67.59	0.00	68.30	23.86	7.36	3132.73	4094.85
374.350	190.00	0.00	0.00	55.00	17000.00	67.06	0.00	67.66	21.73	6.77	2887.61	3646.90
374.350	190.00	0.00	0.00	55.00	12000.00	66.02	0.00	66.46	17.89	5.68	2403.03	2836.86
374.350	190.00	0.00	0.00	55.00	3500.00	65.04	0.00	65.10	2.62	2.00	1858.74	2163.60
374.350	190.00	0.00	0.00	55.00	1000.00	61.83	0.00	61.84	1.58	1.05	978.90	795.32

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
375.200	85.00	0.00	0.00	55.00	30000.00	69.14	66.91	70.56	42.15	10.42	3333.65	4620.83
375.200	85.00	0.00	0.00	55.00	20000.00	67.63	0.00	68.63	35.06	8.64	2661.49	3377.74
375.200	85.00	0.00	0.00	55.00	17000.00	67.10	0.00	67.96	32.03	8.00	2439.52	3003.95
375.200	85.00	0.00	0.00	55.00	12000.00	66.06	0.00	66.70	26.14	6.76	2009.44	2346.94
375.200	85.00	0.00	0.00	55.00	3500.00	65.05	0.00	65.13	3.83	2.40	1500.26	1789.48
375.200	85.00	0.00	0.00	55.00	1000.00	61.84	0.00	61.86	1.77	1.21	839.48	750.87
377.050	165.00	0.00	0.00	55.00	30000.00	70.41	62.50	70.92	9.10	6.17	5443.63	9944.41
377.050	165.00	0.00	0.00	55.00	20000.00	68.58	0.00	68.91	6.69	4.86	4578.94	7730.09
377.050	165.00	0.00	0.00	55.00	17000.00	67.94	0.00	68.21	5.86	4.41	4277.65	7022.53
377.050	165.00	0.00	0.00	55.00	12000.00	66.71	0.00	66.89	4.33	3.54	3698.79	5765.30
377.050	165.00	0.00	0.00	55.00	3500.00	65.14	0.00	65.16	0.63	1.23	3041.09	4392.52
377.050	165.00	0.00	0.00	55.00	1000.00	61.86	0.00	61.87	0.21	0.55	1921.93	2164.35
379.380	230.00	0.00	0.00	55.00	30000.00	70.46	66.06	71.36	23.93	8.25	4065.93	6132.40
379.380	230.00	0.00	0.00	55.00	20000.00	68.61	0.00	69.25	21.09	6.90	3197.29	4355.52
379.380	230.00	0.00	0.00	55.00	17000.00	67.97	0.00	68.52	19.90	6.40	2896.10	3810.41
379.380	230.00	0.00	0.00	55.00	12000.00	66.72	0.00	67.13	17.19	5.39	2352.07	2894.66
379.380	230.00	0.00	0.00	55.00	3500.00	65.14	0.00	65.20	3.27	2.02	1815.67	1935.71
379.380	230.00	0.00	0.00	55.00	1000.00	61.86	0.00	61.89	2.67	1.32	774.47	612.49
380.850	140.00	0.00	0.00	55.00	30000.00	71.08	63.52	71.62	10.63	6.49	5290.48	9201.62
380.850	140.00	0.00	0.00	55.00	20000.00	69.09	0.00	69.46	8.54	5.28	4191.16	6842.21
380.850	140.00	0.00	0.00	55.00	17000.00	68.40	0.00	68.72	7.67	4.82	3830.26	6139.36
380.850	140.00	0.00	0.00	55.00	12000.00	67.07	0.00	67.29	5.86	3.90	3269.22	4957.90
380.850	140.00	0.00	0.00	55.00	3500.00	65.20	0.00	65.23	0.98	1.41	2598.67	3528.91
380.850	140.00	0.00	0.00	55.00	1000.00	61.89	0.00	61.90	0.40	0.66	1557.24	1571.85
383.100	220.00	0.00	0.00	55.00	30000.00	71.46	64.12	71.84	8.35	5.08	6072.01	10384.15
383.100	220.00	0.00	0.00	55.00	20000.00	69.39	0.00	69.65	7.00	4.12	4940.82	7561.33
383.100	220.00	0.00	0.00	55.00	17000.00	68.67	0.00	68.89	6.48	3.78	4562.50	6678.36
383.100	220.00	0.00	0.00	55.00	12000.00	67.27	0.00	67.42	5.50	3.13	3855.76	5117.12
383.100	220.00	0.00	0.00	55.00	3500.00	65.23	0.00	65.25	1.21	1.21	2866.31	3186.42
383.100	220.00	0.00	0.00	55.00	1000.00	61.91	0.00	61.91	0.75	0.81	1409.14	1156.87
385.000	170.00	0.00	0.00	55.00	30000.00	71.62	64.51	71.99	8.20	5.20	6249.65	10474.71
385.000	170.00	0.00	0.00	55.00	20000.00	69.52	0.00	69.77	7.08	4.29	5043.08	7518.93
385.000	170.00	0.00	0.00	55.00	17000.00	68.78	0.00	69.00	6.66	3.97	4629.03	6588.72
385.000	170.00	0.00	0.00	55.00	12000.00	67.37	0.00	67.52	5.86	3.37	3843.92	4955.72
385.000	170.00	0.00	0.00	55.00	3500.00	65.25	0.00	65.28	1.42	1.38	2706.29	2935.53
385.000	170.00	0.00	0.00	55.00	1000.00	61.92	0.00	61.93	1.51	0.88	1164.19	814.39
386.750	170.00	0.00	0.00	55.00	30000.00	71.76	65.04	72.13	9.11	5.18	6209.26	9937.81
386.750	170.00	0.00	0.00	55.00	20000.00	69.64	0.00	69.91	8.37	4.35	4883.46	6911.75
386.750	170.00	0.00	0.00	55.00	17000.00	68.89	0.00	69.13	8.06	4.05	4427.96	5986.56
386.750	170.00	0.00	0.00	55.00	12000.00	67.47	0.00	67.64	7.39	3.46	3598.99	4415.26
386.750	170.00	0.00	0.00	55.00	3500.00	65.27	0.00	65.31	2.00	1.44	2476.14	2475.71
386.750	170.00	0.00	0.00	55.00	1000.00	61.95	0.00	61.96	2.13	0.97	1040.96	685.80

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
388.650	190.00	0.00	0.00	55.00	30000.00	72.02	64.10	72.28	5.57	4.31	7452.06	12715.96
388.650	190.00	0.00	0.00	55.00	20000.00	69.86	0.00	70.03	4.80	3.54	6020.09	9127.75
388.650	190.00	0.00	0.00	55.00	17000.00	69.10	0.00	69.25	4.52	3.27	5531.77	7998.43
388.650	190.00	0.00	0.00	55.00	12000.00	67.64	0.00	67.75	3.98	2.77	4612.34	6016.80
388.650	190.00	0.00	0.00	55.00	3500.00	65.31	0.00	65.33	1.06	1.16	3197.22	3391.91
388.650	190.00	0.00	0.00	55.00	1000.00	61.99	0.00	61.99	1.27	0.77	1343.94	886.58
391.350	160.00	0.00	0.00	55.00	30000.00	72.12	63.39	72.36	4.59	4.08	7793.32	14006.08
391.350	160.00	0.00	0.00	55.00	20000.00	69.94	0.00	70.10	3.77	3.31	6400.22	10294.35
391.350	160.00	0.00	0.00	55.00	17000.00	69.18	0.00	69.31	3.48	3.03	5920.92	9114.08
391.350	160.00	0.00	0.00	55.00	12000.00	67.71	0.00	67.80	2.93	2.53	5005.96	7011.56
391.350	160.00	0.00	0.00	55.00	3500.00	65.33	0.00	65.35	0.70	1.02	3578.39	4171.78
391.350	160.00	0.00	0.00	55.00	1000.00	62.00	0.00	62.01	0.52	0.57	1772.83	1390.24
392.210	185.00	0.00	0.00	55.00	30000.00	72.20	63.46	72.46	5.07	4.25	7526.38	13326.01
392.210	185.00	0.00	0.00	55.00	20000.00	70.01	0.00	70.18	4.25	3.46	6104.11	9695.88
392.210	185.00	0.00	0.00	55.00	17000.00	69.24	0.00	69.39	3.95	3.19	5616.83	8552.07
392.210	185.00	0.00	0.00	55.00	12000.00	67.76	0.00	67.87	3.36	2.66	4696.82	6548.19
392.210	185.00	0.00	0.00	55.00	3500.00	65.34	0.00	65.36	0.82	1.07	3299.61	3874.17
392.210	185.00	0.00	0.00	55.00	1000.00	62.01	0.00	62.02	0.61	0.59	1667.91	1278.32
394.000	175.00	0.00	0.00	55.00	30000.00	72.06	67.76	72.74	19.42	7.16	4808.00	6807.14
394.000	175.00	0.00	0.00	55.00	20000.00	69.86	0.00	70.45	21.74	6.52	3456.56	4289.09
394.000	175.00	0.00	0.00	55.00	17000.00	69.08	0.00	69.65	22.83	6.29	2994.05	3558.08
394.000	175.00	0.00	0.00	55.00	12000.00	67.62	0.00	68.10	24.24	5.66	2205.62	2437.32
394.000	175.00	0.00	0.00	55.00	3500.00	65.32	0.00	65.42	7.35	2.60	1378.88	1290.60
394.000	175.00	0.00	0.00	55.00	1000.00	62.01	0.00	62.05	2.86	1.76	619.01	591.01
395.550	160.00	0.00	0.00	55.00	30000.00	72.56	64.85	72.95	7.90	5.24	6126.65	10674.30
395.550	160.00	0.00	0.00	55.00	20000.00	70.39	0.00	70.66	6.67	4.28	4947.87	7741.46
395.550	160.00	0.00	0.00	55.00	17000.00	69.63	0.00	69.86	6.22	3.94	4554.25	6815.92
395.550	160.00	0.00	0.00	55.00	12000.00	68.13	0.00	68.29	5.37	3.31	3813.84	5178.79
395.550	160.00	0.00	0.00	55.00	3500.00	65.44	0.00	65.47	1.58	1.42	2538.43	2782.82
395.550	160.00	0.00	0.00	55.00	1000.00	62.08	0.00	62.09	1.67	0.88	1151.86	774.52
396.550	95.00	0.00	0.00	55.00	30000.00	72.70	64.17	73.03	6.22	4.77	6646.07	12032.75
396.550	95.00	0.00	0.00	55.00	20000.00	70.50	0.00	70.72	5.10	3.85	5402.18	8856.49
396.550	95.00	0.00	0.00	55.00	17000.00	69.73	0.00	69.91	4.69	3.53	5005.85	7852.06
396.550	95.00	0.00	0.00	55.00	12000.00	68.21	0.00	68.34	3.94	2.93	4240.90	6043.45
396.550	95.00	0.00	0.00	55.00	3500.00	65.46	0.00	65.49	1.12	1.24	2889.35	3313.73
396.550	95.00	0.00	0.00	55.00	1000.00	62.09	0.00	62.10	0.95	0.72	1394.70	1023.50
397.250	65.00	0.00	0.00	60.00	30000.00	72.71	66.59	73.05	1.80	4.66	6433.25	22336.94
397.250	65.00	0.00	0.00	60.00	20000.00	70.50	0.00	70.75	1.80	3.97	5040.76	14909.96
397.250	65.00	0.00	0.00	60.00	17000.00	69.72	0.00	69.94	1.83	3.74	4549.93	12580.01
397.250	65.00	0.00	0.00	60.00	12000.00	68.20	0.00	68.37	2.00	3.34	3590.57	8491.36
397.250	65.00	0.00	0.00	60.00	3500.00	65.45	0.00	65.51	1.33	1.87	1872.74	3037.26
397.250	65.00	0.00	0.00	60.00	1000.00	62.05	0.00	62.14	5.94	2.37	422.01	410.22

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
398.150	85.00	0.00	0.00	60.00	30000.00	72.20	68.76	73.33	35.91	8.72	3623.13	5006.14
398.150	85.00	0.00	0.00	60.00	20000.00	70.08	0.00	70.99	39.96	7.74	2645.02	3164.01
398.150	85.00	0.00	0.00	60.00	17000.00	69.34	0.00	70.16	38.51	7.34	2368.74	2739.53
398.150	85.00	0.00	0.00	60.00	12000.00	67.90	0.00	68.56	39.34	6.57	1860.99	1913.17
398.150	85.00	0.00	0.00	60.00	3500.00	65.40	0.00	65.57	18.94	3.37	1053.46	804.15
398.150	85.00	0.00	0.00	60.00	1000.00	61.97	0.00	62.36	102.06	5.03	199.17	98.98
399.450	125.00	0.00	0.00	60.00	30000.00	72.97	68.30	73.69	19.14	6.96	4559.58	6856.39
399.450	125.00	0.00	0.00	60.00	20000.00	70.81	0.00	71.36	19.44	6.03	3472.91	4536.60
399.450	125.00	0.00	0.00	60.00	17000.00	70.04	0.00	70.53	19.86	5.71	3089.88	3815.15
399.450	125.00	0.00	0.00	60.00	12000.00	68.54	0.00	68.94	21.24	5.11	2407.74	2603.65
399.450	125.00	0.00	0.00	60.00	3500.00	65.66	0.00	65.78	14.60	2.82	1245.84	916.06
399.450	125.00	0.00	0.00	60.00	1000.00	62.80	0.00	62.95	25.75	3.19	314.86	197.06
401.000	165.00	0.00	0.00	60.00	30000.00	73.55	66.15	73.91	7.70	4.93	6330.24	10809.95
401.000	165.00	0.00	0.00	60.00	20000.00	71.32	0.00	71.57	6.89	4.08	5065.03	7620.21
401.000	165.00	0.00	0.00	60.00	17000.00	70.52	0.00	70.73	6.61	3.79	4628.14	6612.07
401.000	165.00	0.00	0.00	60.00	12000.00	68.98	0.00	69.14	6.13	3.24	3796.57	4846.61
401.000	165.00	0.00	0.00	60.00	3500.00	65.84	0.00	65.88	2.91	1.60	2207.38	2050.19
401.000	165.00	0.00	0.00	60.00	1000.00	63.03	0.00	63.05	1.99	0.96	1046.65	709.67
402.500	150.00	0.00	0.00	60.00	30000.00	73.61	66.51	74.08	9.99	5.63	5569.45	9489.33
402.500	150.00	0.00	0.00	60.00	20000.00	71.38	0.00	71.71	8.85	4.65	4448.24	6723.65
402.500	150.00	0.00	0.00	60.00	17000.00	70.58	0.00	70.86	8.47	4.31	4057.26	5841.14
402.500	150.00	0.00	0.00	60.00	12000.00	69.05	0.00	69.25	7.57	3.67	3352.61	4362.58
402.500	150.00	0.00	0.00	60.00	3500.00	65.88	0.00	65.93	3.13	1.78	2016.07	1978.93
402.500	150.00	0.00	0.00	60.00	1000.00	63.07	0.00	63.08	2.96	1.10	921.85	581.12
404.200	170.00	0.00	0.00	60.00	30000.00	73.53	69.86	74.50	29.72	8.20	3897.38	5503.33
404.200	170.00	0.00	0.00	60.00	20000.00	71.32	0.00	72.11	33.18	7.30	2843.12	3472.32
404.200	170.00	0.00	0.00	60.00	17000.00	70.53	0.00	71.26	35.35	7.00	2496.30	2859.40
404.200	170.00	0.00	0.00	60.00	12000.00	68.99	0.00	69.63	39.93	6.56	1879.39	1899.04
404.200	170.00	0.00	0.00	60.00	3500.00	65.83	0.00	66.13	30.30	4.55	818.63	635.89
404.200	170.00	0.00	0.00	60.00	1000.00	63.05	0.00	63.27	43.99	3.87	272.00	150.77
405.350	115.00	0.00	0.00	60.00	30000.00	74.06	70.30	74.84	26.12	7.13	4249.49	5870.11
405.350	115.00	0.00	0.00	60.00	20000.00	71.84	0.00	72.49	30.81	6.38	3108.48	3603.03
405.350	115.00	0.00	0.00	60.00	17000.00	71.06	0.00	71.67	33.87	6.15	2720.71	2921.05
405.350	115.00	0.00	0.00	60.00	12000.00	69.54	0.00	70.10	40.09	6.01	2007.16	1895.32
405.350	115.00	0.00	0.00	60.00	3500.00	66.21	0.00	66.54	40.86	4.87	771.62	547.56
405.350	115.00	0.00	0.00	60.00	1000.00	63.47	0.00	63.66	25.61	3.59	292.41	197.61
406.700	125.00	0.00	0.00	60.00	30000.00	74.53	68.23	75.06	11.07	6.20	5356.28	9018.41
406.700	125.00	0.00	0.00	60.00	20000.00	72.34	0.00	72.72	9.79	5.18	4253.54	6391.96
406.700	125.00	0.00	0.00	60.00	17000.00	71.57	0.00	71.90	9.30	4.81	3878.79	5573.27
406.700	125.00	0.00	0.00	60.00	12000.00	70.09	0.00	70.33	8.36	4.12	3174.95	4150.86
406.700	125.00	0.00	0.00	60.00	3500.00	66.62	0.00	66.69	4.29	2.13	1667.08	1689.23
406.700	125.00	0.00	0.00	60.00	1000.00	63.73	0.00	63.76	2.95	1.25	809.69	582.28

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	408.000	140.00	0.00	0.00	60.00	30000.00	74.87	66.48	75.20	6.00	4.85	6654.27	12247.52
	408.000	140.00	0.00	0.00	60.00	20000.00	72.61	0.00	72.83	4.94	3.94	5453.85	8993.97
	408.000	140.00	0.00	0.00	60.00	17000.00	71.81	0.00	72.00	4.58	3.63	5036.68	7944.32
	408.000	140.00	0.00	0.00	60.00	12000.00	70.29	0.00	70.42	3.86	3.03	4258.74	6109.99
	408.000	140.00	0.00	0.00	60.00	3500.00	66.69	0.00	66.73	1.67	1.49	2508.42	2710.08
	408.000	140.00	0.00	0.00	60.00	1000.00	63.77	0.00	63.78	1.11	0.82	1235.26	950.58
	409.250	115.00	0.00	0.00	63.00	30000.00	74.73	69.11	75.41	16.04	6.73	4681.55	7490.54
	409.250	115.00	0.00	0.00	63.00	20000.00	72.51	0.00	73.00	15.26	5.68	3643.71	5120.12
	409.250	115.00	0.00	0.00	63.00	17000.00	71.73	0.00	72.16	14.95	5.31	3296.22	4396.77
	409.250	115.00	0.00	0.00	63.00	12000.00	70.23	0.00	70.55	14.52	4.59	2658.27	3149.26
	409.250	115.00	0.00	0.00	63.00	3500.00	66.68	0.00	66.79	12.50	2.73	1291.10	990.13
*	409.250	115.00	0.00	0.00	63.00	1000.00	63.65	63.65	63.97	343.99	4.57	219.01	53.92
	410.500	125.00	0.00	0.00	65.00	30000.00	74.77	71.29	75.78	31.87	8.27	3798.86	5314.14
	410.500	125.00	0.00	0.00	65.00	20000.00	72.57	0.00	73.38	36.06	7.35	2818.11	3330.79
	410.500	125.00	0.00	0.00	65.00	17000.00	71.79	0.00	72.54	38.72	7.05	2485.69	2731.90
	410.500	125.00	0.00	0.00	65.00	12000.00	70.30	0.00	70.96	48.31	6.59	1863.27	1726.49
*	410.500	125.00	0.00	0.00	65.00	3500.00	66.83	66.83	67.55	264.82	6.83	515.09	215.08
	410.500	125.00	0.00	0.00	65.00	1000.00	66.20	0.00	66.38	121.87	3.40	295.56	90.59
	411.250	75.00	0.00	0.00	67.00	30000.00	75.00	72.75	76.09	46.00	8.69	3641.88	4423.21
	411.250	75.00	0.00	0.00	67.00	20000.00	72.76	0.00	73.82	70.70	8.55	2456.16	2378.58
	411.250	75.00	0.00	0.00	67.00	17000.00	71.97	0.00	73.07	90.03	8.68	2054.12	1791.66
*	411.250	75.00	0.00	0.00	67.00	12000.00	70.46	70.46	71.82	186.05	9.59	1311.58	879.76
	411.250	75.00	0.00	0.00	67.00	3500.00	68.79	68.76	69.43	235.52	6.44	552.49	228.06
*	411.250	75.00	0.00	0.00	67.00	1000.00	67.90	67.90	68.25	341.75	4.74	211.05	54.09
	412.250	105.00	0.00	0.00	67.00	30000.00	75.73	72.03	76.47	25.35	7.05	4364.37	5958.94
	412.250	105.00	0.00	0.00	67.00	20000.00	73.73	0.00	74.31	27.61	6.19	3302.14	3805.94
	412.250	105.00	0.00	0.00	67.00	17000.00	73.10	0.00	73.61	27.99	5.83	2972.80	3213.03
	412.250	105.00	0.00	0.00	67.00	12000.00	72.12	0.00	72.49	25.49	4.95	2467.52	2376.65
	412.250	105.00	0.00	0.00	67.00	3500.00	69.81	0.00	69.92	16.66	2.69	1321.32	857.58
	412.250	105.00	0.00	0.00	67.00	1000.00	68.56	0.00	68.59	10.00	1.40	718.08	316.22
	413.250	100.00	0.00	0.00	67.00	30000.00	76.29	71.25	76.68	12.26	5.11	6039.37	8568.53
	413.250	100.00	0.00	0.00	67.00	20000.00	74.22	0.00	74.52	13.00	4.45	4579.41	5546.09
	413.250	100.00	0.00	0.00	67.00	17000.00	73.56	0.00	73.82	13.07	4.18	4134.67	4702.15
	413.250	100.00	0.00	0.00	67.00	12000.00	72.48	0.00	72.68	11.98	3.55	3426.95	3467.63
	413.250	100.00	0.00	0.00	67.00	3500.00	69.98	0.00	70.04	8.17	1.95	1814.78	1224.77
	413.250	100.00	0.00	0.00	67.00	1000.00	68.64	0.00	68.66	4.94	1.02	986.36	450.13
	414.550	125.00	0.00	0.00	67.00	30000.00	76.37	71.51	76.90	16.09	5.82	5153.46	7478.69
	414.550	125.00	0.00	0.00	67.00	20000.00	74.34	0.00	74.72	16.03	4.95	4039.00	4994.67
	414.550	125.00	0.00	0.00	67.00	17000.00	73.69	0.00	74.02	15.77	4.62	3680.12	4280.49
	414.550	125.00	0.00	0.00	67.00	12000.00	72.62	0.00	72.85	14.05	3.88	3089.39	3201.90
	414.550	125.00	0.00	0.00	67.00	3500.00	70.08	0.00	70.15	8.80	2.07	1694.21	1180.04
	414.550	125.00	0.00	0.00	67.00	1000.00	68.70	0.00	68.72	5.16	1.07	936.57	440.12

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
416.050	155.00	0.00	0.00	67.00	30000.00	76.63	71.64	77.14	14.97	5.79	5333.31	7754.17
416.050	155.00	0.00	0.00	67.00	20000.00	74.60	0.00	74.96	14.90	4.93	4154.20	5181.72
416.050	155.00	0.00	0.00	67.00	17000.00	73.94	0.00	74.26	14.64	4.60	3778.19	4443.42
416.050	155.00	0.00	0.00	67.00	12000.00	72.83	0.00	73.06	13.17	3.88	3149.69	3306.11
416.050	155.00	0.00	0.00	67.00	3500.00	70.21	0.00	70.28	8.37	2.08	1703.43	1209.57
416.050	155.00	0.00	0.00	67.00	1000.00	68.78	0.00	68.80	5.00	1.08	930.17	447.38
417.300	120.00	0.00	0.00	67.00	30000.00	76.80	71.97	77.33	15.50	5.96	5232.96	7619.45
417.300	120.00	0.00	0.00	67.00	20000.00	74.76	0.00	75.15	15.56	5.11	4045.22	5069.47
417.300	120.00	0.00	0.00	67.00	17000.00	74.10	0.00	74.45	15.34	4.78	3668.30	4340.11
417.300	120.00	0.00	0.00	67.00	12000.00	72.98	0.00	73.23	13.90	4.06	3039.26	3218.27
417.300	120.00	0.00	0.00	67.00	3500.00	70.31	0.00	70.39	9.03	2.21	1610.27	1164.79
417.300	120.00	0.00	0.00	67.00	1000.00	68.84	0.00	68.86	5.37	1.15	877.57	431.60
418.450	120.00	0.00	0.00	67.00	30000.00	76.86	72.59	77.62	22.65	7.15	4385.01	6303.13
418.450	120.00	0.00	0.00	67.00	20000.00	74.87	0.00	75.43	22.23	6.09	3399.52	4241.74
418.450	120.00	0.00	0.00	67.00	17000.00	74.22	0.00	74.71	21.70	5.68	3089.10	3649.79
418.450	120.00	0.00	0.00	67.00	12000.00	73.11	0.00	73.46	19.33	4.79	2570.00	2729.06
418.450	120.00	0.00	0.00	67.00	3500.00	70.42	0.00	70.52	12.24	2.57	1377.44	1000.48
418.450	120.00	0.00	0.00	67.00	1000.00	68.91	0.00	68.94	7.54	1.35	744.16	364.14
419.550	115.00	0.00	0.00	67.00	30000.00	77.26	72.65	77.87	17.62	6.54	4897.12	7147.40
419.550	115.00	0.00	0.00	67.00	20000.00	75.20	0.00	75.66	17.97	5.69	3753.47	4717.80
419.550	115.00	0.00	0.00	67.00	17000.00	74.53	0.00	74.94	17.75	5.35	3388.41	4035.00
419.550	115.00	0.00	0.00	67.00	12000.00	73.36	0.00	73.66	16.22	4.57	2777.84	2979.65
419.550	115.00	0.00	0.00	67.00	3500.00	70.56	0.00	70.65	10.96	2.54	1423.05	1057.22
419.550	115.00	0.00	0.00	67.00	1000.00	68.99	0.00	69.02	6.70	1.35	756.92	386.45
420.650	110.00	0.00	0.00	67.00	30000.00	77.36	73.28	78.13	22.57	7.46	4314.32	6314.28
420.650	110.00	0.00	0.00	67.00	20000.00	75.34	0.00	75.92	22.55	6.45	3334.16	4211.66
420.650	110.00	0.00	0.00	67.00	17000.00	74.67	0.00	75.19	22.26	6.06	3018.01	3602.99
420.650	110.00	0.00	0.00	67.00	12000.00	73.51	0.00	73.89	20.58	5.22	2473.18	2645.32
420.650	110.00	0.00	0.00	67.00	3500.00	70.67	0.00	70.80	14.70	3.02	1231.07	912.89
420.650	110.00	0.00	0.00	67.00	1000.00	69.07	0.00	69.11	9.12	1.62	634.42	331.15
422.300	160.00	0.00	0.00	67.00	30000.00	77.55	73.82	78.65	30.96	8.69	3642.79	5391.57
422.300	160.00	0.00	0.00	67.00	20000.00	75.60	0.00	76.39	28.94	7.31	2864.01	3717.46
422.300	160.00	0.00	0.00	67.00	17000.00	74.95	0.00	75.63	27.83	6.79	2613.13	3222.47
422.300	160.00	0.00	0.00	67.00	12000.00	73.79	0.00	74.28	24.54	5.72	2178.48	2422.39
422.300	160.00	0.00	0.00	67.00	3500.00	70.91	0.00	71.05	16.03	3.13	1149.84	874.21
422.300	160.00	0.00	0.00	67.00	1000.00	69.23	0.00	69.27	10.95	1.71	595.15	302.21
423.650	140.00	0.00	0.00	69.00	30000.00	77.72	75.49	79.39	56.83	10.55	2935.66	3979.60
423.650	140.00	0.00	0.00	69.00	20000.00	75.83	0.00	77.08	58.14	9.07	2261.50	2623.00
423.650	140.00	0.00	0.00	69.00	17000.00	75.20	0.00	76.30	58.59	8.53	2039.14	2221.02
423.650	140.00	0.00	0.00	69.00	12000.00	74.04	0.00	74.89	58.85	7.45	1641.19	1564.26
423.650	140.00	0.00	0.00	69.00	3500.00	71.16	0.00	71.57	87.44	5.16	683.89	374.29
* 423.650	140.00	0.00	0.00	69.00	1000.00	69.68	69.68	70.03	338.12	4.71	213.01	54.38

DESIGN CONDITIONS(5A)

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	314.630	30000.00	52.78	0.00	0.00	0.00	1250.00	0.00
*	314.630	20000.00	50.63	-2.15	0.00	0.00	1250.00	0.00
*	314.630	17000.00	50.39	-0.24	0.00	0.00	1250.00	0.00
*	314.630	12000.00	50.00	-0.39	0.00	0.00	1250.00	0.00
*	314.630	3500.00	48.63	-1.37	0.00	0.00	714.99	0.00
	314.630	1000.00	47.10	-1.53	0.00	0.00	100.00	0.00
	319.760	30000.00	53.82	0.00	1.04	0.00	988.79	510.00
	319.760	20000.00	52.76	-1.06	2.13	0.00	980.39	510.00
	319.760	17000.00	52.42	-0.34	2.03	0.00	976.11	510.00
	319.760	12000.00	51.73	-0.69	1.72	0.00	896.69	510.00
	319.760	3500.00	51.53	-0.20	2.90	-2.29	190.46	510.00
	319.760	1000.00	49.22	-2.31	2.12	-4.60	144.43	510.00
	326.350	30000.00	54.68	0.00	0.86	0.00	1000.16	650.00
	326.350	20000.00	53.51	-1.18	0.74	0.00	984.79	650.00
	326.350	17000.00	53.11	-0.40	0.69	0.00	976.48	650.00
	326.350	12000.00	52.32	-0.79	0.59	0.00	867.35	650.00
	326.350	3500.00	53.45	1.13	1.92	-1.24	186.80	650.00
	326.350	1000.00	50.76	-2.69	1.54	-3.93	153.19	650.00
	332.150	30000.00	55.33	0.00	0.64	0.00	867.67	575.00
	332.150	20000.00	54.10	-1.22	0.60	0.00	835.04	575.00
	332.150	17000.00	53.68	-0.42	0.57	0.00	822.91	575.00
	332.150	12000.00	52.83	-0.85	0.52	0.00	797.53	575.00
	332.150	3500.00	54.98	2.15	1.53	-0.35	244.70	575.00
	332.150	1000.00	52.68	-2.30	1.92	-2.65	210.13	575.00
*	336.200	30000.00	56.06	0.00	0.73	0.00	806.03	405.00
*	336.200	20000.00	55.17	-0.89	1.07	0.00	789.81	405.00
*	336.200	17000.00	54.89	-0.28	1.21	0.00	784.67	405.00
*	336.200	12000.00	54.48	-0.41	1.64	0.00	777.11	405.00
	336.200	3500.00	56.55	2.07	1.57	0.49	254.54	405.00
	336.200	1000.00	54.87	-1.67	2.20	-1.18	240.64	405.00
	341.600	30000.00	61.48	0.00	5.42	0.00	875.00	535.00
	341.600	20000.00	60.39	-1.08	5.22	0.00	875.00	535.00
	341.600	17000.00	60.01	-0.38	5.12	0.00	875.00	535.00
	341.600	12000.00	59.23	-0.78	4.75	0.00	875.00	535.00
	341.600	3500.00	58.92	-0.31	2.37	-2.56	168.93	535.00
	341.600	1000.00	57.08	-1.84	2.21	-4.39	144.49	535.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
346.950	30000.00	63.27	0.00	1.79	0.00	995.00	535.00
346.950	20000.00	61.98	-1.28	1.59	0.00	991.37	535.00
346.950	17000.00	61.54	-0.45	1.53	0.00	989.79	535.00
346.950	12000.00	60.68	-0.86	1.45	0.00	958.01	535.00
346.950	3500.00	61.60	0.92	2.69	-1.67	180.02	535.00
346.950	1000.00	59.09	-2.52	2.00	-4.18	137.98	535.00
351.180	30000.00	64.05	0.00	0.78	0.00	1000.00	420.00
351.180	20000.00	62.74	-1.31	0.76	0.00	995.80	420.00
351.180	17000.00	62.29	-0.45	0.75	0.00	994.29	420.00
351.180	12000.00	61.42	-0.87	0.74	0.00	955.13	420.00
351.180	3500.00	62.47	1.05	0.87	-1.58	164.91	420.00
351.180	1000.00	59.74	-2.73	0.66	-4.31	139.52	420.00
356.690	30000.00	65.24	0.00	1.18	0.00	1110.00	545.00
356.690	20000.00	63.89	-1.35	1.15	0.00	1093.20	545.00
356.690	17000.00	63.42	-0.46	1.14	0.00	1082.75	545.00
356.690	12000.00	62.54	-0.88	1.12	0.00	1043.08	545.00
356.690	3500.00	63.67	1.13	1.20	-1.57	235.98	545.00
356.690	1000.00	60.92	-2.75	1.18	-4.32	176.32	545.00
360.850	30000.00	65.79	0.00	0.55	0.00	664.88	415.00
360.850	20000.00	64.50	-1.29	0.61	0.00	644.93	415.00
360.850	17000.00	64.05	-0.45	0.62	0.00	637.97	415.00
360.850	12000.00	63.17	-0.88	0.63	0.00	624.45	415.00
360.850	3500.00	64.21	1.04	0.54	-1.57	152.34	415.00
360.850	1000.00	61.36	-2.85	0.44	-4.43	129.14	415.00
365.100	30000.00	67.42	0.00	1.63	0.00	862.18	420.00
365.100	20000.00	65.90	-1.52	1.41	0.00	838.83	420.00
365.100	17000.00	65.38	-0.53	1.33	0.00	829.90	420.00
365.100	12000.00	64.38	-1.00	1.21	0.00	812.89	420.00
365.100	3500.00	64.65	0.28	0.44	-2.77	316.59	420.00
365.100	1000.00	61.57	-3.08	0.21	-5.85	284.64	420.00
367.080	30000.00	67.77	0.00	0.35	0.00	988.88	200.00
367.080	20000.00	66.21	-1.56	0.31	0.00	929.80	200.00
367.080	17000.00	65.68	-0.54	0.30	0.00	914.24	200.00
367.080	12000.00	64.66	-1.02	0.28	0.00	862.66	200.00
367.080	3500.00	64.70	0.04	0.05	-3.07	215.01	200.00
367.080	1000.00	61.63	-3.07	0.06	-6.14	214.94	200.00
367.180	30000.00	67.78	0.00	0.01	0.00	989.56	10.00
367.180	20000.00	66.22	-1.56	0.01	0.00	912.26	10.00
367.180	17000.00	65.68	-0.54	0.01	0.00	896.55	10.00
367.180	12000.00	64.66	-1.02	0.00	0.00	845.06	10.00
367.180	3500.00	64.69	0.03	-0.01	-3.09	197.03	10.00
367.180	1000.00	61.63	-3.06	0.00	-6.15	196.92	10.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
367.980	30000.00	67.90	0.00	0.12	0.00	990.98	80.00
367.980	20000.00	66.35	-1.55	0.13	0.00	916.65	80.00
367.980	17000.00	65.82	-0.54	0.14	0.00	899.48	80.00
367.980	12000.00	64.80	-1.01	0.14	0.00	849.93	80.00
367.980	3500.00	64.72	-0.08	0.03	-3.18	197.03	80.00
367.980	1000.00	61.66	-3.06	0.03	-6.24	196.93	80.00
368.220	30000.00	67.89	0.00	-0.02	0.00	795.69	30.00
368.220	20000.00	66.38	-1.51	0.03	0.00	746.14	30.00
368.220	17000.00	65.86	-0.52	0.04	0.00	728.97	30.00
368.220	12000.00	64.88	-0.98	0.08	0.00	647.90	30.00
368.220	3500.00	64.87	-0.01	0.15	-3.01	244.41	30.00
368.220	1000.00	61.74	-3.14	0.07	-6.15	228.70	30.00
369.300	30000.00	68.33	0.00	0.44	0.00	822.93	100.00
369.300	20000.00	66.75	-1.58	0.37	0.00	816.14	100.00
369.300	17000.00	66.19	-0.56	0.33	0.00	813.74	100.00
369.300	12000.00	65.13	-1.06	0.25	0.00	809.17	100.00
369.300	3500.00	64.89	-0.24	0.02	-3.44	314.25	100.00
369.300	1000.00	61.74	-3.15	0.00	-6.59	244.95	100.00
370.210	30000.00	68.46	0.00	0.13	0.00	777.36	100.00
370.210	20000.00	66.88	-1.58	0.13	0.00	769.46	100.00
370.210	17000.00	66.33	-0.55	0.13	0.00	766.72	100.00
370.210	12000.00	65.26	-1.06	0.14	0.00	761.34	100.00
370.210	3500.00	64.90	-0.36	0.01	-3.55	304.56	100.00
370.210	1000.00	61.75	-3.15	0.01	-6.71	228.98	100.00
372.000	30000.00	68.69	0.00	0.23	0.00	678.96	180.00
372.000	20000.00	67.12	-1.56	0.24	0.00	665.86	180.00
372.000	17000.00	66.58	-0.55	0.25	0.00	661.24	180.00
372.000	12000.00	65.54	-1.04	0.27	0.00	652.52	180.00
372.000	3500.00	64.97	-0.56	0.07	-3.71	258.09	180.00
372.000	1000.00	61.80	-3.18	0.05	-6.89	213.01	180.00
374.350	30000.00	69.12	0.00	0.43	0.00	477.15	190.00
374.350	20000.00	67.59	-1.52	0.47	0.00	470.76	190.00
374.350	17000.00	67.06	-0.53	0.49	0.00	468.59	190.00
374.350	12000.00	66.02	-1.04	0.49	0.00	464.26	190.00
374.350	3500.00	65.04	-0.98	0.07	-4.08	290.20	190.00
374.350	1000.00	61.83	-3.21	0.03	-7.29	257.29	190.00
375.200	30000.00	69.14	0.00	0.02	0.00	458.56	85.00
375.200	20000.00	67.63	-1.51	0.04	0.00	418.62	85.00
375.200	17000.00	67.10	-0.53	0.04	0.00	416.63	85.00
375.200	12000.00	66.06	-1.04	0.04	0.00	412.74	85.00
375.200	3500.00	65.05	-1.02	0.01	-4.09	238.96	85.00
375.200	1000.00	61.84	-3.21	0.01	-7.30	188.50	85.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
377.050	30000.00	70.41	0.00	1.27	0.00	473.88	165.00
377.050	20000.00	68.58	-1.83	0.95	0.00	471.44	165.00
377.050	17000.00	67.94	-0.64	0.84	0.00	470.58	165.00
377.050	12000.00	66.71	-1.23	0.64	0.00	468.94	165.00
377.050	3500.00	65.14	-1.57	0.09	-5.27	358.12	165.00
377.050	1000.00	61.86	-3.28	0.03	-8.54	330.23	165.00
379.380	30000.00	70.46	0.00	0.06	0.00	472.67	230.00
379.380	20000.00	68.61	-1.85	0.03	0.00	465.59	230.00
379.380	17000.00	67.97	-0.65	0.02	0.00	463.11	230.00
379.380	12000.00	66.72	-1.25	0.01	0.00	346.93	230.00
379.380	3500.00	65.14	-1.58	0.00	-5.32	333.01	230.00
379.380	1000.00	61.86	-3.28	0.00	-8.60	220.52	230.00
380.850	30000.00	71.08	0.00	0.62	0.00	566.95	140.00
380.850	20000.00	69.09	-1.99	0.48	0.00	526.31	140.00
380.850	17000.00	68.40	-0.69	0.43	0.00	513.29	140.00
380.850	12000.00	67.07	-1.32	0.35	0.00	382.73	140.00
380.850	3500.00	65.20	-1.87	0.06	-5.89	327.21	140.00
380.850	1000.00	61.89	-3.30	0.03	-9.19	301.92	140.00
383.100	30000.00	71.46	0.00	0.38	0.00	560.78	220.00
383.100	20000.00	69.39	-2.07	0.30	0.00	527.88	220.00
383.100	17000.00	68.67	-0.72	0.27	0.00	516.84	220.00
383.100	12000.00	67.27	-1.40	0.20	0.00	495.57	220.00
383.100	3500.00	65.23	-2.04	0.03	-6.23	479.26	220.00
383.100	1000.00	61.91	-3.32	0.01	-9.56	405.66	220.00
385.000	30000.00	71.62	0.00	0.15	0.00	585.04	170.00
385.000	20000.00	69.52	-2.10	0.12	0.00	566.53	170.00
385.000	17000.00	68.78	-0.74	0.11	0.00	560.03	170.00
385.000	12000.00	67.37	-1.42	0.09	0.00	547.51	170.00
385.000	3500.00	65.25	-2.12	0.02	-6.37	528.84	170.00
385.000	1000.00	61.92	-3.33	0.02	-9.69	427.23	170.00
386.750	30000.00	71.76	0.00	0.15	0.00	635.24	170.00
386.750	20000.00	69.64	-2.12	0.12	0.00	615.98	170.00
386.750	17000.00	68.89	-0.74	0.11	0.00	609.50	170.00
386.750	12000.00	67.47	-1.43	0.10	0.00	532.19	170.00
386.750	3500.00	65.27	-2.19	0.03	-6.49	493.40	170.00
386.750	1000.00	61.95	-3.33	0.03	-9.81	373.43	170.00
388.650	30000.00	72.02	0.00	0.26	0.00	675.08	190.00
388.650	20000.00	69.86	-2.16	0.22	0.00	648.57	190.00
388.650	17000.00	69.10	-0.76	0.20	0.00	639.28	190.00
388.650	12000.00	67.64	-1.46	0.18	0.00	621.41	190.00
388.650	3500.00	65.31	-2.33	0.04	-6.71	588.51	190.00
388.650	1000.00	61.99	-3.33	0.04	-10.03	496.94	190.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
391.350	30000.00	72.12	0.00	0.10	0.00	649.16	160.00
391.350	20000.00	69.94	-2.18	0.09	0.00	630.92	160.00
391.350	17000.00	69.18	-0.76	0.08	0.00	624.53	160.00
391.350	12000.00	67.71	-1.47	0.07	0.00	612.13	160.00
391.350	3500.00	65.33	-2.38	0.02	-6.79	592.27	160.00
391.350	1000.00	62.00	-3.33	0.02	-10.12	497.74	160.00
392.210	30000.00	72.20	0.00	0.08	0.00	660.34	185.00
392.210	20000.00	70.01	-2.19	0.06	0.00	637.64	185.00
392.210	17000.00	69.24	-0.77	0.06	0.00	629.67	185.00
392.210	12000.00	67.76	-1.48	0.05	0.00	614.35	185.00
392.210	3500.00	65.34	-2.41	0.01	-6.85	501.55	185.00
392.210	1000.00	62.01	-3.33	0.01	-10.18	478.51	185.00
394.000	30000.00	72.06	0.00	-0.14	0.00	624.64	175.00
394.000	20000.00	69.86	-2.20	-0.15	0.00	602.18	175.00
394.000	17000.00	69.08	-0.77	-0.15	0.00	594.29	175.00
394.000	12000.00	67.62	-1.46	-0.14	0.00	390.44	175.00
394.000	3500.00	65.32	-2.30	-0.03	-6.74	310.64	175.00
394.000	1000.00	62.01	-3.31	-0.01	-10.06	142.18	175.00
395.550	30000.00	72.56	0.00	0.50	0.00	565.29	160.00
395.550	20000.00	70.39	-2.17	0.53	0.00	522.48	160.00
395.550	17000.00	69.63	-0.76	0.54	0.00	507.38	160.00
395.550	12000.00	68.13	-1.49	0.51	0.00	486.97	160.00
395.550	3500.00	65.44	-2.69	0.13	-7.11	462.11	160.00
395.550	1000.00	62.08	-3.37	0.07	-10.48	395.45	160.00
396.550	30000.00	72.70	0.00	0.14	0.00	595.71	95.00
396.550	20000.00	70.50	-2.20	0.11	0.00	514.54	95.00
396.550	17000.00	69.73	-0.77	0.10	0.00	509.97	95.00
396.550	12000.00	68.21	-1.51	0.08	0.00	501.01	95.00
396.550	3500.00	65.46	-2.75	0.02	-7.23	472.98	95.00
396.550	1000.00	62.09	-3.37	0.02	-10.60	425.45	95.00
397.250	30000.00	72.71	0.00	0.01	0.00	630.10	65.00
397.250	20000.00	70.50	-2.21	0.00	0.00	630.06	65.00
397.250	17000.00	69.72	-0.78	0.00	0.00	630.05	65.00
397.250	12000.00	68.20	-1.52	-0.01	0.00	630.03	65.00
397.250	3500.00	65.45	-2.75	-0.01	-7.26	580.60	65.00
397.250	1000.00	62.05	-3.40	-0.04	-10.66	281.95	65.00
398.150	30000.00	72.20	0.00	-0.51	0.00	494.76	85.00
398.150	20000.00	70.08	-2.12	-0.42	0.00	425.40	85.00
398.150	17000.00	69.34	-0.73	-0.38	0.00	364.20	85.00
398.150	12000.00	67.90	-1.44	-0.29	0.00	341.41	85.00
398.150	3500.00	65.40	-2.51	-0.06	-6.80	301.66	85.00
398.150	1000.00	61.97	-3.43	-0.08	-10.23	107.69	85.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
399.450	30000.00	72.97	0.00	0.78	0.00	511.26	125.00
399.450	20000.00	70.81	-2.16	0.74	0.00	494.80	125.00
399.450	17000.00	70.04	-0.78	0.69	0.00	488.86	125.00
399.450	12000.00	68.54	-1.50	0.64	0.00	451.60	125.00
399.450	3500.00	65.66	-2.88	0.26	-7.31	372.80	125.00
399.450	1000.00	62.80	-2.86	0.83	-10.18	120.37	125.00
401.000	30000.00	73.55	0.00	0.58	0.00	574.47	165.00
401.000	20000.00	71.32	-2.24	0.50	0.00	554.30	165.00
401.000	17000.00	70.52	-0.80	0.48	0.00	547.16	165.00
401.000	12000.00	68.98	-1.54	0.44	0.00	532.79	165.00
401.000	3500.00	65.84	-3.14	0.18	-7.71	473.42	165.00
401.000	1000.00	63.03	-2.81	0.24	-10.52	356.62	165.00
402.500	30000.00	73.61	0.00	0.06	0.00	514.29	150.00
402.500	20000.00	71.38	-2.23	0.07	0.00	493.14	150.00
402.500	17000.00	70.58	-0.80	0.07	0.00	485.55	150.00
402.500	12000.00	69.05	-1.53	0.07	0.00	439.45	150.00
402.500	3500.00	65.88	-3.17	0.04	-7.73	404.24	150.00
402.500	1000.00	63.07	-2.82	0.03	-10.54	372.96	150.00
404.200	30000.00	73.53	0.00	-0.07	0.00	524.52	170.00
404.200	20000.00	71.32	-2.22	-0.06	0.00	445.00	170.00
404.200	17000.00	70.53	-0.79	-0.06	0.00	429.45	170.00
404.200	12000.00	68.99	-1.53	-0.06	0.00	372.33	170.00
404.200	3500.00	65.83	-3.16	-0.05	-7.70	256.30	170.00
404.200	1000.00	63.05	-2.78	-0.02	-10.49	146.64	170.00
405.350	30000.00	74.06	0.00	0.52	0.00	530.44	115.00
405.350	20000.00	71.84	-2.21	0.52	0.00	500.18	115.00
405.350	17000.00	71.06	-0.78	0.53	0.00	489.47	115.00
405.350	12000.00	69.54	-1.52	0.55	0.00	437.31	115.00
405.350	3500.00	66.21	-3.33	0.38	-7.85	278.62	115.00
405.350	1000.00	63.47	-2.74	0.42	-10.59	114.09	115.00
406.700	30000.00	74.53	0.00	0.48	0.00	514.87	125.00
406.700	20000.00	72.34	-2.19	0.50	0.00	490.75	125.00
406.700	17000.00	71.57	-0.77	0.51	0.00	482.27	125.00
406.700	12000.00	70.09	-1.48	0.55	0.00	465.94	125.00
406.700	3500.00	66.62	-3.47	0.41	-7.92	318.61	125.00
406.700	1000.00	63.73	-2.89	0.26	-10.80	253.09	125.00
408.000	30000.00	74.87	0.00	0.33	0.00	543.79	140.00
408.000	20000.00	72.61	-2.26	0.27	0.00	523.54	140.00
408.000	17000.00	71.81	-0.79	0.24	0.00	516.32	140.00
408.000	12000.00	70.29	-1.53	0.20	0.00	502.58	140.00
408.000	3500.00	66.69	-3.59	0.08	-8.17	471.90	140.00
408.000	1000.00	63.77	-2.92	0.04	-11.10	350.24	140.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	409.250	30000.00	74.73	0.00	-0.13	0.00	477.65	115.00
	409.250	20000.00	72.51	-2.22	-0.10	0.00	453.34	115.00
	409.250	17000.00	71.73	-0.78	-0.08	0.00	438.73	115.00
	409.250	12000.00	70.23	-1.50	-0.06	0.00	410.56	115.00
	409.250	3500.00	66.68	-3.55	-0.02	-8.05	367.18	115.00
*	409.250	1000.00	63.65	-3.03	-0.12	-11.08	340.67	115.00
	410.500	30000.00	74.77	0.00	0.04	0.00	457.45	125.00
	410.500	20000.00	72.57	-2.20	0.06	0.00	433.23	125.00
	410.500	17000.00	71.79	-0.77	0.06	0.00	424.71	125.00
	410.500	12000.00	70.30	-1.49	0.07	0.00	408.27	125.00
*	410.500	3500.00	66.83	-3.47	0.15	-7.94	363.41	125.00
	410.500	1000.00	66.20	-0.63	2.56	-8.57	331.18	125.00
	411.250	30000.00	75.00	0.00	0.23	0.00	544.98	75.00
	411.250	20000.00	72.76	-2.24	0.19	0.00	513.62	75.00
	411.250	17000.00	71.97	-0.79	0.18	0.00	502.54	75.00
*	411.250	12000.00	70.46	-1.51	0.16	0.00	481.41	75.00
	411.250	3500.00	68.79	-1.66	1.96	-6.21	414.28	75.00
*	411.250	1000.00	67.90	-0.89	1.70	-7.10	308.62	75.00
	412.250	30000.00	75.73	0.00	0.73	0.00	537.92	105.00
	412.250	20000.00	73.73	-2.00	0.98	0.00	523.60	105.00
	412.250	17000.00	73.10	-0.63	1.13	0.00	517.91	105.00
	412.250	12000.00	72.12	-0.98	1.66	0.00	509.05	105.00
	412.250	3500.00	69.81	-2.31	1.02	-5.92	487.58	105.00
	412.250	1000.00	68.56	-1.25	0.66	-7.17	470.80	105.00
	413.250	30000.00	76.29	0.00	0.56	0.00	725.00	100.00
	413.250	20000.00	74.22	-2.07	0.49	0.00	672.23	100.00
	413.250	17000.00	73.56	-0.66	0.46	0.00	665.58	100.00
	413.250	12000.00	72.48	-1.07	0.37	0.00	654.86	100.00
	413.250	3500.00	69.98	-2.50	0.17	-6.31	629.68	100.00
	413.250	1000.00	68.64	-1.34	0.08	-7.65	611.88	100.00
	414.550	30000.00	76.37	0.00	0.08	0.00	550.07	125.00
	414.550	20000.00	74.34	-2.03	0.12	-2.03	550.06	125.00
	414.550	17000.00	73.69	-0.65	0.13	-2.68	550.05	125.00
	414.550	12000.00	72.62	-1.07	0.13	-3.75	550.04	125.00
	414.550	3500.00	70.08	-2.54	0.10	-6.29	550.02	125.00
	414.550	1000.00	68.70	-1.38	0.06	-7.67	550.01	125.00
	416.050	30000.00	76.63	0.00	0.27	0.00	585.28	155.00
	416.050	20000.00	74.60	-2.04	0.25	-2.04	572.54	155.00
	416.050	17000.00	73.94	-0.66	0.25	-2.70	568.41	155.00
	416.050	12000.00	72.83	-1.10	0.22	-3.80	561.45	155.00
	416.050	3500.00	70.21	-2.62	0.13	-6.42	545.08	155.00
	416.050	1000.00	68.78	-1.43	0.08	-7.85	534.49	155.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
417.300	30000.00	76.80	0.00	0.17	0.00	593.11	120.00
417.300	20000.00	74.76	-2.04	0.17	-2.04	572.74	120.00
417.300	17000.00	74.10	-0.66	0.16	-2.70	566.12	120.00
417.300	12000.00	72.98	-1.12	0.15	-3.82	554.90	120.00
417.300	3500.00	70.31	-2.67	0.10	-6.49	508.01	120.00
417.300	1000.00	68.84	-1.47	0.06	-7.96	487.72	120.00
418.450	30000.00	76.86	0.00	0.06	0.00	507.46	120.00
418.450	20000.00	74.87	-1.99	0.10	-1.99	482.30	120.00
418.450	17000.00	74.22	-0.65	0.12	-2.64	474.09	120.00
418.450	12000.00	73.11	-1.11	0.13	-3.75	460.05	120.00
418.450	3500.00	70.42	-2.69	0.11	-6.44	426.03	120.00
418.450	1000.00	68.91	-1.51	0.07	-7.95	413.18	120.00
419.550	30000.00	77.26	0.00	0.40	0.00	565.34	115.00
419.550	20000.00	75.20	-2.06	0.33	-2.06	546.83	115.00
419.550	17000.00	74.53	-0.67	0.31	-2.73	535.20	115.00
419.550	12000.00	73.36	-1.17	0.25	-3.90	510.88	115.00
419.550	3500.00	70.56	-2.81	0.14	-6.70	452.27	115.00
419.550	1000.00	68.99	-1.56	0.08	-8.27	409.59	115.00
420.650	30000.00	77.36	0.00	0.10	0.00	493.66	110.00
420.650	20000.00	75.34	-2.02	0.14	-2.02	477.03	110.00
420.650	17000.00	74.67	-0.67	0.14	-2.69	471.55	110.00
420.650	12000.00	73.51	-1.17	0.14	-3.85	459.07	110.00
420.650	3500.00	70.67	-2.83	0.11	-6.69	419.49	110.00
420.650	1000.00	69.07	-1.60	0.08	-8.29	330.68	110.00
422.300	30000.00	77.55	0.00	0.19	0.00	409.74	160.00
422.300	20000.00	75.60	-1.95	0.26	-1.95	389.39	160.00
422.300	17000.00	74.95	-0.65	0.28	-2.60	382.61	160.00
422.300	12000.00	73.79	-1.16	0.29	-3.76	370.56	160.00
422.300	3500.00	70.91	-2.89	0.23	-6.65	340.34	160.00
422.300	1000.00	69.23	-1.68	0.16	-8.33	318.31	160.00
423.650	30000.00	77.72	0.00	0.17	0.00	363.40	140.00
423.650	20000.00	75.83	-1.88	0.23	-1.88	351.86	140.00
423.650	17000.00	75.20	-0.64	0.24	-2.52	347.96	140.00
423.650	12000.00	74.04	-1.16	0.25	-3.68	340.89	140.00
423.650	3500.00	71.16	-2.88	0.25	-6.56	323.23	140.00
* 423.650	1000.00	69.68	-1.48	0.45	-8.04	314.18	140.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION  SECNO=   314.630  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   314.630  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   314.630  PROFILE= 4  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   314.630  PROFILE= 5  CRITICAL DEPTH ASSUMED

CAUTION  SECNO=   336.200  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   336.200  PROFILE= 1  MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   336.200  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   336.200  PROFILE= 2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   336.200  PROFILE= 2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=   336.200  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   336.200  PROFILE= 3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   336.200  PROFILE= 3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=   336.200  PROFILE= 4  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   336.200  PROFILE= 4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   336.200  PROFILE= 4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=   409.250  PROFILE= 6  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   409.250  PROFILE= 6  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   409.250  PROFILE= 6  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=   410.500  PROFILE= 5  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   410.500  PROFILE= 5  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   410.500  PROFILE= 5  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=   411.250  PROFILE= 4  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   411.250  PROFILE= 4  MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   411.250  PROFILE= 6  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   411.250  PROFILE= 6  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=   423.650  PROFILE= 6  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   423.650  PROFILE= 6  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   423.650  PROFILE= 6  20 TRIALS ATTEMPTED TO BALANCE WSEL
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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF NOVEMBER 1976                         *
*  UPDATED MAY 1984                                 *
*                                                   *
*  RUN DATE: Wed 21-JAN-1987  TIME: 08:57:07.53     *
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*  U.S. ARMY CORPS OF ENGINEERS     *
*  THE HYDROLOGIC ENGINEERING CENTER *
*  609 SECOND STREET, SUITE D       *
*  DAVIS, CALIFORNIA 95616          *
*  (916) 756-1104 (FTS) 448-2105    *
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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
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HEC-2 COMPUTATIONS
PERFORMED BY:

ERIE AND ASSOCIATES, INC.
Consulting Engineers
3120 North 24th Street
Phoenix, Arizona 85016


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:::   FULL MICRO-COMPUTER IMPLEMENTATION  :::
:::          By: John R. Haestad          :::
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H A E S T A D M E T H O D S
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37 Brookside Road * Waterbury, Connecticut 06708 * (203) 753-9800

THIS RUN EXECUTED: Wed 21-JAN-1987 08:57:08.90

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 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
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T1 INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2 EA # 1192.2: SCOTTSDALE LAKES GOLF COURSE: USCE'S LOW "n" VALUES
T3 DESIGN CONDITIONS(5B) (1192D5B)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	2.	0.	0.	0.000000	0.00	0.0	0.	52.780	0.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	0.000	-1.000	0.000	0.000	0.000	-1.000	0.000	0.000	15.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

	150.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

NC	0.030	0.030	0.030	0.100	0.300	0.000	0.000	0.000	0.000	0.000
QT	6.000	30000.000	20000.000	17000.000	12000.000	3500.000	1000.000	0.000	0.000	0.000
X1	314.630	14.000	2550.100	2650.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	50.000	1530.000	49.000	1740.000	48.600	1830.000	48.000	1890.000	47.600	2050.000
GR	48.000	2145.000	48.200	2300.000	48.600	2430.000	48.900	2495.000	49.500	2550.000
GR	44.200	2550.100	45.000	2650.000	49.700	2650.100	50.000	2780.000	0.000	0.000
NC	0.030	0.030	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2440.000	2650.000
X1	319.760	19.000	2440.000	2615.000	510.000	510.000	510.000	0.000	0.000	0.000
GR	54.000	1660.000	51.000	1680.000	50.000	1690.000	49.000	1725.000	47.000	1750.000
GR	47.000	1855.000	48.000	1875.000	48.400	1900.000	48.000	1915.000	47.000	2310.000
GR	50.000	2335.000	51.000	2345.000	51.900	2385.000	52.300	2440.000	47.000	2515.000
GR	46.300	2550.000	46.900	2590.000	47.000	2615.000	53.000	2650.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2420.000	2610.000
X1	326.350	19.000	2420.000	2575.000	650.000	650.000	650.000	0.000	0.000	0.000
GR	56.000	1600.000	54.000	1615.000	53.000	1630.000	52.000	1680.000	51.000	1715.000
GR	50.000	1840.000	49.000	1895.000	48.000	1980.000	47.000	2010.000	47.000	2255.000
GR	48.000	2295.000	50.000	2310.000	52.000	2355.000	53.000	2360.000	53.000	2420.000
GR	48.000	2460.000	47.400	2510.000	48.000	2575.000	54.000	2610.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2365.000	2625.000
X1	332.150	27.000	2365.000	2605.000	575.000	575.000	575.000	0.000	0.000	0.000
GR	61.000	1645.000	60.000	1675.000	54.000	1715.000	52.000	1740.000	51.000	1773.000
GR	50.000	1790.000	50.000	1815.000	49.000	1840.000	48.000	1879.000	47.000	1890.000
GR	47.000	2169.000	48.000	2205.000	49.000	2245.000	50.000	2261.000	51.000	2310.000
GR	55.000	2320.000	56.000	2332.000	56.000	2365.000	52.000	2385.000	51.800	2425.000
GR	51.500	2470.000	51.000	2492.000	51.000	2514.000	52.000	2555.000	52.000	2585.000

GR	54.000	2605.000	56.000	2625.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.030	0.030	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2320.000	2585.000
X1	336.200	15.000	2340.000	2565.000	405.000	405.000	405.000	0.000	0.000	0.000
GR	60.000	1705.000	54.000	1735.000	53.000	1820.000	52.000	1845.000	52.000	2090.000
GR	51.000	2195.000	50.000	2205.000	52.000	2225.000	52.000	2260.000	57.000	2285.000
GR	57.000	2320.000	53.000	2340.000	53.000	2510.000	53.000	2565.000	59.000	2585.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2275.000	2445.000
X1	341.600	12.000	2300.000	2435.000	535.000	535.000	535.000	0.000	0.000	0.000
GR	57.000	1570.000	56.000	1670.000	55.300	1745.000	55.300	1925.000	56.000	1970.000
GR	56.000	2070.000	59.000	2170.000	59.000	2275.000	56.000	2300.000	55.000	2385.000
GR	57.000	2435.000	59.000	2445.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2230.000	2415.000
X1	346.950	23.000	2270.000	2390.000	535.000	535.000	535.000	0.000	0.000	0.000
GR	61.000	1420.000	57.000	1450.000	56.000	1470.000	56.000	1665.000	56.500	1795.000
GR	57.000	1870.000	57.800	1920.000	57.000	2012.000	56.000	2085.000	56.000	2130.000
GR	57.000	2141.000	58.000	2190.000	60.000	2200.000	61.000	2219.000	61.000	2230.000
GR	60.000	2260.000	57.000	2270.000	55.000	2295.000	55.000	2300.000	56.000	2310.000
GR	56.000	2370.000	56.000	2390.000	63.000	2415.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2190.000	2360.000
X1	351.180	21.000	2220.000	2330.000	420.000	420.000	420.000	0.000	0.000	0.000
GR	62.000	1360.000	58.000	1390.000	57.000	1405.000	57.000	1450.000	58.000	1610.000
GR	60.000	1660.000	62.000	1685.000	62.000	1700.000	59.000	1750.000	58.000	1875.000
GR	58.000	2020.000	58.000	2090.000	59.000	2110.000	60.000	2150.000	60.000	2190.000
GR	61.000	2200.000	57.000	2220.000	57.000	2245.000	57.000	2330.000	58.000	2340.000
GR	64.000	2360.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2165.000	2420.000
X1	356.690	21.000	2165.000	2320.000	545.000	545.000	545.000	0.000	0.000	0.000
GR	64.000	1310.000	59.000	1350.000	59.000	1380.000	59.000	1410.000	56.000	1425.000
GR	56.000	1580.000	59.000	1590.000	59.000	1620.000	58.000	1660.000	59.000	1845.000
GR	58.900	1950.000	60.000	1995.000	61.700	2020.000	61.000	2030.000	61.000	2055.000
GR	62.800	2140.000	62.000	2165.000	58.000	2240.000	57.700	2290.000	58.000	2320.000
GR	65.000	2420.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2100.000	2260.000
X1	360.850	22.000	2120.000	2230.000	415.000	415.000	415.000	0.000	0.000	0.000
GR	61.000	1555.000	60.000	1565.000	59.000	1610.000	58.600	1670.000	59.000	1710.000
GR	61.000	1735.000	69.300	1780.000	58.000	1844.900	58.000	1845.000	58.000	1870.000
GR	59.000	1960.000	62.000	1995.000	62.000	2060.000	63.000	2100.000	60.000	2120.000
GR	59.000	2145.000	59.000	2150.000	55.000	2166.000	55.000	2209.000	59.000	2225.000
GR	59.000	2230.000	66.000	2260.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2060.000	2390.000
X1	365.100	15.000	2090.000	2350.000	420.000	420.000	420.000	0.000	0.000	0.000
GR	61.000	1510.000	60.000	1530.000	60.000	1760.000	69.000	1810.000	62.000	1850.000
GR	61.300	1900.000	62.000	1950.000	63.000	2060.000	60.000	2090.000	59.000	2230.000
GR	59.000	2275.000	55.000	2293.000	55.000	2332.000	60.000	2350.000	67.000	2390.000

NC	0.030	0.030	0.030	0.300	0.500	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2155.000	2370.100
X1	367.080	19.000	2055.000	2370.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	64.000	1372.000	63.000	1410.000	62.000	1500.000	61.100	1605.000	61.000	1715.000
GR	62.000	1870.000	63.000	1955.000	64.000	1995.000	64.800	2025.000	65.000	2055.000
GR	66.000	2079.000	67.000	2115.000	68.000	2155.000	60.000	2155.100	60.000	2310.000
GR	55.000	2330.000	55.000	2350.000	60.000	2370.000	70.000	2370.100	0.000	0.000
NC	0.030	0.030	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2155.000	2370.100
X1	367.180	30.000	2055.000	2370.000	10.000	10.000	10.000	0.000	0.000	0.000
GR	64.000	1372.000	63.000	1410.000	62.000	1500.000	61.100	1605.000	61.000	1715.000
GR	62.000	1870.000	63.000	1955.000	64.000	1995.000	64.800	2025.000	65.000	2055.000
GR	66.000	2079.000	67.000	2115.000	67.000	2155.000	60.000	2155.100	60.000	2200.000
GR	67.000	2200.010	67.500	2206.000	60.000	2206.010	60.000	2259.000	67.500	2259.010
GR	68.000	2265.000	60.000	2265.010	60.000	2318.000	68.000	2318.010	68.500	2324.000
GR	60.000	2324.010	55.000	2336.000	55.000	2357.000	60.000	2370.000	69.000	2370.100
BT	9.000	2115.000	67.000	67.000	2155.000	71.000	67.000	2200.010	71.250	67.000
BT	2206.000	71.250	67.500	2259.010	71.500	67.500	2265.000	71.500	68.000	2318.010
BT	72.250	68.000	2324.000	72.250	68.500	2370.100	73.000	69.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2155.000	2370.100
X1	367.980	0.000	0.000	0.000	80.000	80.000	80.000	0.000	0.000	0.000
X2	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000
NC	0.030	0.030	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2120.000	2365.100
X1	368.220	15.000	2165.000	2345.000	120.000	30.000	30.000	0.000	0.000	0.000
GR	70.000	1500.000	63.000	1730.000	62.000	1745.000	62.000	1860.000	62.000	1925.000
GR	63.000	1950.000	64.000	2010.000	65.000	2080.000	65.000	2120.000	56.000	2165.000
GR	55.000	2205.000	55.000	2220.000	55.000	2345.000	60.000	2365.000	70.000	2365.100
NC	0.030	0.030	0.030	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2055.000	2370.100
X1	369.300	19.000	2115.000	2360.000	110.000	100.000	100.000	0.000	0.000	0.000
GR	70.000	1540.000	63.000	1570.000	62.000	1590.000	62.000	1875.000	63.000	1920.000
GR	64.000	1930.000	65.000	2055.000	61.000	2085.000	55.000	2115.000	55.000	2190.000
GR	61.000	2235.000	62.000	2250.000	62.000	2290.000	60.000	2305.000	58.000	2330.000
GR	57.000	2340.000	58.000	2360.000	60.000	2370.000	70.000	2370.100	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2050.000	2355.100
X1	370.210	19.000	2110.000	2340.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	70.000	1570.000	63.000	1605.000	62.000	1620.000	62.000	1800.000	63.000	1900.000
GR	64.000	1925.000	65.000	2050.000	61.000	2070.000	55.000	2110.000	55.000	2155.000
GR	60.000	2200.000	61.000	2210.000	61.000	2255.000	64.000	2295.000	64.000	2310.000
GR	60.000	2325.000	60.000	2340.000	63.000	2355.000	70.000	2355.100	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	2030.000	2340.010
X1	372.000	16.000	2100.000	2255.000	200.000	180.000	180.000	0.000	0.000	0.000
GR	70.000	1620.000	64.000	1645.000	64.000	1870.000	65.000	2030.000	64.000	2050.000
GR	55.000	2100.000	55.000	2145.000	55.000	2175.000	61.000	2210.000	61.000	2220.000
GR	57.000	2240.000	57.000	2255.000	70.000	2310.000	72.000	2325.000	72.000	2340.000
GR	75.000	2340.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	1975.000	2350.000
X1	374.350	15.000	2045.000	2245.000	205.000	190.000	190.000	0.000	0.000	0.000
GR	70.000	1805.000	64.000	1805.010	65.000	1975.000	55.000	2045.000	55.000	2065.000
GR	57.000	2100.000	58.000	2130.000	59.000	2140.000	59.000	2185.000	59.000	2200.000
GR	59.000	2245.000	65.000	2265.000	71.000	2290.000	75.000	2325.000	75.000	2350.000
ET	0.000	0.000	0.000	0.000	0.000	9.100	9.100	0.000	1990.000	2330.000
X1	375.200	14.000	2045.000	2240.000	85.000	85.000	85.000	0.000	0.000	0.000
GR	70.000	1820.000	64.000	1820.010	65.000	1990.000	65.000	2010.000	55.000	2045.000
GR	55.000	2060.000	57.000	2075.000	57.000	2175.000	64.000	2225.000	68.000	2240.000
GR	68.000	2270.000	70.000	2285.000	70.000	2315.000	75.000	2330.000	0.000	0.000
X1	377.050	10.000	2005.000	2245.000	150.000	150.000	165.000	0.000	0.000	0.000
GR	70.000	1835.000	66.000	1835.010	66.000	1905.000	65.000	1950.000	55.000	2005.000
GR	55.000	2245.000	60.000	2265.000	60.000	2295.000	75.000	2315.000	75.000	2335.000
X1	379.380	16.000	2040.000	2235.000	230.000	230.000	230.000	0.000	0.000	0.000
GR	70.000	1810.000	67.000	1810.000	67.000	1920.000	65.000	1930.000	62.000	1940.000
GR	62.000	1985.000	61.000	2000.000	55.000	2040.000	55.000	2065.000	62.000	2120.000
GR	62.000	2160.000	58.000	2190.000	58.000	2235.000	75.000	2300.000	76.000	2320.000
GR	76.000	2340.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	380.850	15.000	2100.000	2270.000	160.000	140.000	140.000	0.000	0.000	0.000
GR	70.000	1780.000	68.000	1780.000	68.000	1890.000	68.000	1895.000	70.000	1915.000
GR	70.000	1935.000	58.000	2000.000	55.000	2100.000	55.000	2140.000	56.000	2150.000
GR	57.000	2200.000	57.000	2270.000	66.000	2290.000	66.000	2330.000	75.000	2360.000
X1	383.100	18.000	2120.000	2295.000	230.000	220.000	220.000	0.000	0.000	0.000
GR	72.000	1735.000	72.000	1815.000	70.000	1840.000	67.000	1875.000	58.000	1905.000
GR	58.000	2035.000	60.000	2065.000	60.000	2105.000	55.000	2120.000	55.000	2185.000
GR	65.000	2230.000	65.000	2245.000	60.000	2280.000	60.000	2295.000	61.000	2300.000
GR	61.000	2345.000	75.000	2395.000	77.000	2415.000	0.000	0.000	0.000	0.000
X1	385.000	19.000	2030.000	2340.000	185.000	110.000	170.000	0.000	0.000	0.000
GR	75.000	1675.000	75.000	1775.000	65.000	1830.000	65.000	1880.000	61.000	1915.000
GR	61.000	1970.000	62.000	1980.000	62.000	1990.000	61.000	2005.000	55.000	2030.000
GR	55.000	2080.000	59.000	2110.000	61.000	2125.000	61.000	2150.000	60.000	2180.000
GR	59.000	2215.000	59.000	2260.000	60.000	2340.000	78.000	2400.000	0.000	0.000
X1	386.750	21.000	2020.000	2345.000	170.000	160.000	170.000	0.000	0.000	0.000
GR	76.000	1625.000	76.700	1670.000	75.000	1715.000	75.000	1755.000	63.000	1805.000
GR	63.000	1820.000	68.000	1840.000	68.000	1900.000	59.000	1945.000	59.000	2020.000
GR	55.000	2030.000	55.000	2070.000	61.000	2100.000	61.000	2190.000	65.000	2225.000
GR	65.000	2235.000	59.000	2270.000	59.000	2345.000	70.000	2395.000	75.000	2420.000
GR	76.000	2445.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	388.650	15.000	2030.000	2350.000	190.000	190.000	190.000	0.000	0.000	0.000
GR	75.000	1710.000	66.000	1780.000	61.000	1850.000	59.000	1920.000	59.000	1950.000
GR	62.000	1970.000	62.000	2000.000	55.000	2030.000	55.000	2070.000	60.000	2090.000
GR	61.000	2140.000	61.000	2190.000	59.000	2205.000	59.000	2350.000	78.000	2435.000

X1	391.350	10.000	1890.000	2345.000	160.000	160.000	160.000	0.000	0.000	0.000
GR	76.000	1735.000	64.000	1785.000	64.000	1840.000	59.000	1890.000	55.000	2020.000
GR	55.000	2020.000	59.000	2060.000	59.000	2130.000	59.000	2345.000	78.000	2425.000
X1	392.210	14.000	1815.000	2220.000	185.000	185.000	185.000	0.000	0.000	0.000
GR	77.000	1715.000	58.000	1765.000	58.000	1805.000	55.000	1815.000	55.000	1915.000
GR	62.000	1950.000	62.000	1970.000	60.000	2044.000	60.000	2045.000	59.000	2085.000
GR	59.000	2220.000	66.000	2250.000	66.000	2340.000	77.000	2425.000	0.000	0.000
X1	394.000	14.000	1830.000	2070.000	175.000	175.000	175.000	0.000	0.000	0.000
GR	80.000	1724.900	77.000	1725.000	60.000	1785.000	60.000	1825.000	55.000	1830.000
GR	55.000	1885.000	66.000	1940.000	66.000	1960.000	63.000	2000.000	63.000	2070.000
GR	68.000	2155.000	68.000	2340.000	77.000	2400.000	77.000	2420.000	0.000	0.000
X1	395.550	13.000	1810.000	2185.000	160.000	160.000	160.000	0.000	0.000	0.000
GR	77.000	1715.000	65.000	1760.000	65.000	1805.000	55.000	1810.000	55.000	1845.000
GR	62.000	1865.000	62.000	1875.000	61.000	1935.000	59.000	1945.000	59.000	2185.000
GR	69.000	2240.000	74.000	2320.000	77.000	2360.000	0.000	0.000	0.000	0.000
X1	396.550	14.000	1790.000	2185.000	95.000	95.000	95.000	0.000	0.000	0.000
GR	77.000	1725.000	65.000	1760.000	64.000	1770.000	55.000	1790.000	55.000	1835.000
GR	59.000	1860.000	59.000	2050.000	60.000	2060.000	60.000	2185.000	65.000	2220.000
GR	66.000	2245.000	71.000	2260.000	71.000	2315.000	77.000	2380.000	0.000	0.000
NC	0.020	0.020	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	397.250	8.000	1710.000	2350.000	65.000	65.000	65.000	0.000	0.000	0.000
GR	80.000	1719.900	66.000	1720.000	63.000	1900.000	60.000	2010.000	60.000	2140.000
GR	64.000	2290.000	66.000	2350.000	80.000	2350.100	0.000	0.000	0.000	0.000
NC	0.030	0.030	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	398.150	15.000	1810.000	2155.000	85.000	85.000	85.000	0.000	0.000	0.000
GR	78.000	1720.000	71.000	1765.000	71.000	1805.000	60.000	1810.000	60.000	1905.000
GR	70.000	1965.000	70.000	1975.000	63.000	2010.000	63.000	2035.000	62.000	2155.000
GR	70.000	2190.000	70.000	2230.000	74.000	2270.000	75.000	2295.000	79.000	2370.000
X1	399.450	18.000	1775.000	2150.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	80.000	1680.000	76.000	1720.000	70.000	1740.000	70.000	1770.000	60.000	1775.000
GR	60.000	1880.000	65.000	1905.000	65.000	1915.000	63.000	1955.000	63.000	2135.000
GR	67.000	2150.000	68.000	2220.000	75.000	2250.000	73.000	2280.000	73.000	2310.000
GR	75.000	2335.000	75.000	2365.000	80.000	2370.000	0.000	0.000	0.000	0.000
X1	401.000	10.000	1775.000	2230.000	165.000	165.000	165.000	0.000	0.000	0.000
GR	80.000	1660.000	75.000	1710.000	67.000	1730.000	67.000	1760.000	60.000	1775.000
GR	60.000	2110.000	64.000	2130.000	65.000	2230.000	70.000	2265.000	80.000	2330.000
X1	402.500	10.000	1820.000	2195.000	150.000	150.000	150.000	0.000	0.000	0.000
GR	80.000	1665.000	75.000	1720.000	63.000	1780.000	62.000	1820.000	60.000	1890.000
GR	60.000	2090.000	61.000	2140.000	70.000	2195.000	70.000	2225.000	80.000	2270.000

X1	404.200	23.000	1890.000	2130.000	170.000	170.000	170.000	0.000	0.000	0.000
GR	78.000	1685.000	75.000	1710.000	66.000	1780.000	65.000	1815.000	63.000	1850.000
GR	62.000	1890.000	60.000	1900.000	60.000	1970.000	66.000	1990.000	66.000	2010.000
GR	63.000	2030.000	63.000	2045.000	69.000	2085.000	69.000	2100.000	66.000	2110.000
GR	66.000	2130.000	68.000	2140.000	73.000	2160.000	73.000	2190.000	73.000	2200.000
GR	70.000	2210.000	70.000	2230.000	80.000	2275.000	0.000	0.000	0.000	0.000
X1	405.350	23.000	1910.000	2170.000	115.000	115.000	115.000	0.000	0.000	0.000
GR	80.000	1630.000	76.000	1690.000	70.000	1730.000	67.000	1760.000	63.000	1890.000
GR	60.000	1910.000	60.000	1975.000	70.000	2015.000	70.000	2025.000	66.000	2050.000
GR	66.000	2070.000	70.000	2080.000	70.000	2095.000	66.000	2105.000	66.000	2120.000
GR	68.000	2130.000	68.000	2150.000	65.000	2160.000	65.000	2170.000	68.000	2200.000
GR	70.000	2205.000	75.000	2240.000	86.000	2310.000	0.000	0.000	0.000	0.000
X1	406.700	10.000	1775.000	2065.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	78.000	1670.000	75.000	1715.000	65.000	1775.000	63.000	1850.000	60.000	1865.000
GR	60.000	2065.000	67.000	2085.000	67.000	2195.000	80.000	2260.000	85.000	2280.000
X1	408.000	8.000	1800.000	2135.000	140.000	140.000	140.000	0.000	0.000	0.000
GR	80.000	1660.000	75.000	1660.000	65.000	1700.000	64.000	1800.000	60.000	1830.000
GR	60.000	2135.000	70.000	2180.000	80.000	2230.000	0.000	0.000	0.000	0.000
X1	409.250	6.000	1770.000	2135.000	115.000	115.000	115.000	0.000	3.000	0.000
GR	80.000	1660.000	70.000	1710.000	66.000	1770.000	60.000	1800.000	60.000	2135.000
GR	80.000	2210.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	410.500	8.000	1770.000	2130.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	80.000	1650.000	75.000	1730.000	67.000	1770.000	66.000	1815.000	65.000	1990.000
GR	65.000	2130.000	75.000	2190.000	80.000	2210.000	0.000	0.000	0.000	0.000
X1	411.250	9.000	1710.000	2085.000	75.000	75.000	75.000	0.000	0.000	0.000
GR	80.000	1650.000	68.000	1710.000	68.000	1760.000	67.000	1855.000	67.000	2015.000
GR	68.000	2085.000	70.000	2175.000	75.000	2220.000	80.000	2230.000	0.000	0.000
X1	412.250	9.000	1690.000	2140.000	105.000	105.000	105.000	0.000	0.000	0.000
GR	80.000	1645.000	75.000	1650.000	70.000	1670.000	67.000	1690.000	67.000	2140.000
GR	70.000	2160.000	75.000	2185.000	80.000	2200.000	83.000	2220.000	0.000	0.000
X1	413.250	7.000	1580.000	2170.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	75.000	1530.000	70.000	1555.000	67.000	1580.000	67.000	2170.000	70.000	2185.000
GR	75.000	2210.000	75.000	2255.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	9.100	9.100	9.100	9.100	9.100	9.100	0.000	1679.900	2230.000
X1	414.550	9.000	1680.000	2230.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	80.000	1679.900	67.000	1680.000	67.000	2230.000	70.000	2250.000	75.000	2275.000
GR	76.000	2295.000	81.000	2340.000	81.000	2380.000	84.000	2405.000	0.000	0.000
X1	416.050	7.000	1695.000	2205.000	155.000	155.000	155.000	0.000	0.000	0.000
GR	80.000	1679.900	69.000	1680.000	67.000	1695.000	67.000	1725.000	67.000	2205.000
GR	79.000	2280.000	83.000	2310.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	417.300	8.000	1725.000	2190.000	120.000	120.000	120.000	0.000	0.000	0.000
GR	82.000	1634.900	77.000	1635.000	72.000	1665.000	71.000	1685.000	70.000	1700.000
GR	67.000	1725.000	67.000	2190.000	82.000	2250.000	0.000	0.000	0.000	0.000
X1	418.450	10.000	1755.000	2155.000	120.000	120.000	120.000	0.000	0.000	0.000
GR	82.000	1655.000	77.000	1680.000	77.000	1715.000	70.000	1755.000	67.000	1755.000
GR	67.000	1790.000	68.000	1800.000	67.000	1850.000	67.000	2155.000	80.000	2245.000
X1	419.550	12.000	1820.000	2175.000	115.000	115.000	115.000	0.000	0.000	0.000
GR	85.000	1630.000	80.000	1650.000	75.000	1670.000	70.000	1690.000	70.000	1710.000
GR	75.000	1740.000	69.000	1775.000	68.000	1800.000	67.000	1820.000	67.000	2175.000
GR	75.000	2215.000	80.000	2240.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	420.650	11.000	1810.000	2085.000	110.000	110.000	110.000	0.000	0.000	0.000
GR	85.000	1695.000	80.000	1720.000	75.000	1740.000	70.000	1760.000	68.000	1785.000
GR	67.000	1810.000	67.000	2085.000	70.000	2110.000	70.000	2170.000	74.000	2210.000
GR	87.000	2265.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	422.300	6.000	1850.000	2135.000	180.000	140.000	160.000	0.000	0.000	0.000
GR	85.000	1800.000	68.000	1850.000	67.000	2000.000	67.000	2135.000	70.000	2175.000
GR	80.000	2250.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	423.650	7.000	1840.000	2150.000	170.000	120.000	140.000	0.000	0.000	0.000
GR	91.000	1655.000	91.000	1730.000	90.000	1750.000	89.000	1780.000	69.000	1840.000
GR	69.000	2150.000	85.000	2200.000	0.000	0.000	0.000	0.000	0.000	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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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


*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV=   0.100 CEHV=   0.300
*SECNO 314.630
3280 CROSS SECTION    314.63 EXTENDED      2.78 FEET

   314.63     8.58    52.78    51.38    52.78    53.29     0.51     0.00     0.00    44.20
   30000.   22145.    6378.    1477.    4340.     817.     381.       0.       0.    45.00
     0.00     5.10     7.80     3.88    0.030    0.030    0.030    0.000    44.20  1530.00
 0.001506       0.       0.       0.        0        9        0     0.00  1250.00  2780.00


FLOW DISTRIBUTION FOR SECNO=    314.63          CWSEL=     52.78

STA=    1530.    1740.    1830.    1890.    2050.    2145.    2300.    2430.    2495.    2550.    2650.    2780.
  PER Q=      9.7      5.8      4.7     14.9      8.8     13.0      9.8      4.3      3.0     21.3      4.9
   AREA=    688.8    358.2    268.8    796.8    473.1    725.4    569.4    261.9    197.5    817.2    381.2
    VEL=      4.2      4.8      5.2      5.6      5.6      5.4      5.1      4.9      4.5      7.8      3.9

*SECNO 319.760
3280 CROSS SECTION    319.76 EXTENDED      0.51 FEET

   319.76     7.21    53.51    51.12     0.00    54.04     0.53     0.74     0.01    52.30
   30000.   23831.    5651.     518.    4033.     970.     123.      62.      13.    47.00
     0.02     5.91     5.83     4.22    0.030    0.030    0.030    0.000    46.30  1663.28
 0.001414     510.     510.     510.        2       11        0     0.00   986.72  2650.00


FLOW DISTRIBUTION FOR SECNO=    319.76          CWSEL=     53.51

STA=    1663.    1750.    1855.    1900.    2310.    2385.    2440.    2615.    2650.
  PER Q=      5.4     14.8      5.0     50.2      3.5      0.6     18.8      1.7
   AREA=    329.0    683.3    252.8   2452.6    237.6     77.4    969.6    122.8
    VEL=      4.9      6.5      5.9      6.1      4.4      2.3      5.8      4.2

*SECNO 326.350
3280 CROSS SECTION    326.35 EXTENDED      0.40 FEET

   326.35     7.40    54.40    51.98     0.00    54.93     0.53     0.89     0.00    53.00
   30000.   24032.    5492.     477.    4092.     926.     119.     139.      28.    48.00
     0.05     5.87     5.93     4.01    0.030    0.030    0.030    0.000    47.00  1612.01
 0.001324     650.     650.     650.        2       19        0     0.00   997.99  2610.00
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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= 326.35 CWSEL= 54.40

STA=	1612.	1840.	1895.	1980.	2010.	2255.	2295.	2355.	2420.	2575.	2610.
PER Q=	9.4	4.7	9.8	4.5	41.4	6.0	3.6	0.7	18.3	1.6	
AREA=	697.9	269.4	501.4	207.0	1812.7	276.0	233.9	93.4	926.3	119.0	
VEL=	4.1	5.2	5.9	6.5	6.8	6.5	4.6	2.3	5.9	4.0	

*SECNO 332.150

3265 DIVIDED FLOW

332.15	8.09	55.09	52.79	0.00	55.75	0.66	0.78	0.04	56.00
30000.	26928.	3064.	7.	3988.	762.	6.	204.	40.	54.00
0.08	6.75	4.02	1.22	0.030	0.030	0.030	0.000	47.00	1707.75
0.001382	575.	575.	575.	2	15	0	0.00	859.59	2615.87

FLOW DISTRIBUTION FOR SECNO= 332.15 CWSEL= 55.09

STA=	1708.	1790.	1840.	1879.	2169.	2205.	2245.	2310.	2321.	2605.	2616.
PER Q=	3.6	5.0	5.5	57.8	6.5	5.7	5.5	0.2	10.2	0.0	
AREA=	252.5	266.8	256.9	2339.7	273.1	263.5	314.1	20.9	761.7	5.9	
VEL=	4.2	5.6	6.5	7.4	7.1	6.5	5.3	2.9	4.0	1.2	

*SECNO 336.200

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

336.20	6.02	56.02	56.02	0.00	57.80	1.79	1.12	0.34	53.00
30000.	23607.	6306.	86.	2129.	679.	15.	240.	48.	53.00
0.09	11.09	9.29	5.69	0.030	0.030	0.030	0.000	50.00	1724.92
0.008076	405.	405.	405.	0	19	0	0.00	805.30	2575.05

FLOW DISTRIBUTION FOR SECNO= 336.20 CWSEL= 56.02

STA=	1725.	1735.	1820.	1845.	2090.	2195.	2205.	2225.	2260.	2280.	2340.	2565.	2575.
PER Q=	0.1	5.9	3.0	36.9	19.2	2.5	4.3	5.3	0.9	0.4	21.0	0.3	
AREA=	10.2	213.9	87.9	983.9	474.2	55.2	100.3	140.6	40.3	22.7	678.6	15.2	
VEL=	4.4	8.2	10.3	11.2	12.2	13.9	13.0	11.2	7.0	5.8	9.3	5.7	

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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 341.600
3280 CROSS SECTION    341.60 EXTENDED      3.06 FEET

   341.60     5.06     60.06     59.71      0.00     61.44      1.38      3.60      0.04     56.00
   30000.   23976.     5909.      115.     2581.      591.       21.      276.       58.     57.00
     0.11     9.29     10.00      5.59     0.030     0.030     0.030     0.000     55.00   1570.00
 0.005691    535.      535.      535.         2        15         0      0.00    875.00   2445.00


FLOW DISTRIBUTION FOR SECNO=    341.60          CWSEL=     60.06

STA=    1570.    1670.    1745.    1925.    1970.    2070.    2170.    2275.    2300.    2435.    2445.
  PER Q=     10.1     11.1     30.2      6.7     12.9      6.0      1.4      1.5     19.7      0.4
   AREA=    356.3    331.0    857.3    198.6    406.3    256.3    111.6     64.1    591.0     20.6
    VEL=      8.5     10.1     10.6     10.1      9.5      7.0      3.9      7.0     10.0      5.6

*SECNO 346.950
3280 CROSS SECTION    346.95 EXTENDED      1.30 FEET


3301 HV CHANGED MORE THAN HVINS

   346.95     7.29     62.29     59.78      0.00     62.79      0.49      1.26      0.09     57.00
   30000.   25089.     4649.      262.     4518.      765.       71.      329.       70.     56.00
     0.13     5.55      6.07      3.70     0.030     0.030     0.030     0.000     55.00   1420.00
 0.001272    535.      535.      535.         3        11         0      0.00    992.48   2412.48


FLOW DISTRIBUTION FOR SECNO=    346.95          CWSEL=     62.29

STA=    1420.    1470.    1665.    1795.    1870.    1920.    2012.    2085.    2130.    2190.    2270.    2390.    2412.
  PER Q=      3.4     24.7     15.4      7.7      4.2      7.6      8.0      5.7      5.1      1.8     15.5      0.9
   AREA=    214.8   1227.6    785.9    415.9    244.8    450.4    423.1    283.3    298.7    173.1    765.5     70.8
    VEL=      4.8      6.0      5.9      5.5      5.1      5.1      5.7      6.0      5.2      3.1      6.1      3.7

*SECNO 351.180
3280 CROSS SECTION    351.18 EXTENDED      0.84 FEET

   351.18     5.84     62.84     61.41      0.00     63.57      0.73      0.72      0.07     57.00
   30000.   24379.     5060.      561.     3670.      643.       93.      376.       79.     57.00
     0.15     6.64      7.87      6.06     0.030     0.030     0.030     0.000     57.00   1360.00
 0.002399    420.      420.      420.         3        14         0      0.00    996.14   2356.14
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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=    351.18          CWSEL=     62.84

STA=    1360.    1405.    1450.    1610.    1660.    1875.    2020.    2090.    2150.    2220.    2330.    2356.
  PER Q=     3.3      6.9     21.1      3.8     14.0     16.3      7.8      4.3      3.7     16.9      1.9
   AREA=   165.4    262.9    854.9    192.2    718.8    702.3    339.0    220.6    214.0    642.8     92.5
    VEL=     6.0      7.9      7.4      6.0      5.8      6.9      6.9      5.8      5.2      7.9      6.1

*SECNO 356.690
3280 CROSS SECTION    356.69 EXTENDED      0.05 FEET

   356.69     8.05    64.05    61.71     0.00    64.53     0.48     0.94     0.02    62.00
   30000.   24780.    4248.     972.    4368.     800.     262.     438.      92.    58.00
     0.18     5.67     5.31     3.72    0.030    0.030    0.030    0.000    56.00  1310.00
 0.001289     545.     545.     545.        2        5        0     0.00  1096.46  2406.46


FLOW DISTRIBUTION FOR SECNO=    356.69          CWSEL=     64.05

STA=    1310.    1380.    1425.    1580.    1620.    1660.    1845.    1950.    1995.    2140.    2165.    2320.    2406.
  PER Q=     3.8      4.7     29.7      4.0      4.1     19.1      9.4      3.4      4.1      0.3     14.2      3.2
   AREA=   253.6    249.8   1248.0    217.1    222.1   1027.1    535.7    207.1    366.3     41.3    800.0    261.6
    VEL=     4.5      5.6      7.1      5.5      5.6      5.6      5.3      4.9      3.4      2.5      5.3      3.7

*SECNO 360.850

3265 DIVIDED FLOW

3280 CROSS SECTION    360.85 EXTENDED      3.06 FEET


3301 HV CHANGED MORE THAN HVINS

   360.85     9.05    64.05    63.76     0.00    65.89     1.84     0.95     0.41    60.00
   30000.   19491.   10154.     355.    2023.     780.      55.     477.     101.    59.00
     0.19     9.64    13.02     6.47    0.030    0.030    0.030    0.000    55.00  1555.00
 0.005135     415.     415.     415.        3        8        0     0.00   638.15  2251.68


FLOW DISTRIBUTION FOR SECNO=    360.85          CWSEL=     64.05

STA=    1555.    1610.    1670.    1710.    1735.    1845.    1870.    1960.    1995.    2100.    2120.    2230.    2252.
  PER Q=     7.5     11.3      7.5      3.0      3.0      6.0     18.6      3.4      3.6      1.1     33.8      1.2
   AREA=   240.7    315.5    210.3    101.4    131.3    151.4    500.2    124.5    196.1     51.2    779.9     54.8
    VEL=     9.3     10.7     10.7      9.0      6.9     11.8     11.1      8.3      5.4      6.6     13.0      6.5
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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 365.100

3265 DIVIDED FLOW

3280 CROSS SECTION    365.10 EXTENDED      5.37 FEET


3301 HV CHANGED MORE THAN HVINS

   365.10    11.37    66.37    63.97     0.00    66.97     0.60     0.96     0.12    60.00
   30000.   15036.   14524.     440.    2793.    2065.     116.     515.     108.    60.00
     0.21     5.38     7.03     3.80    0.030    0.030    0.030    0.000    55.00  1510.00
 0.001280     420.     420.     420.        2        6        0     0.00   846.73  2386.39


FLOW DISTRIBUTION FOR SECNO=    365.10          CWSEL=     66.37

STA=    1510.    1530.    1760.    1795.    1850.    1900.    1950.    2060.    2090.    2350.    2386.
  PER Q=      1.9     29.7      1.4      0.5      3.9      3.9      6.2      2.5     48.4      1.5
   AREA=    117.4   1464.7    112.7     54.5    235.9    235.9    425.5    146.0   2064.7    115.9
    VEL=      4.9      6.1      3.8      3.0      5.0      5.0      4.4      5.1      7.0      3.8

CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

3265 DIVIDED FLOW

3280 CROSS SECTION    367.08 EXTENDED      2.65 FEET

   367.08    11.65    66.65    64.88     0.00    67.30     0.65     0.30     0.02    65.00
   30000.   18090.   11910.       0.    3043.    1665.       0.     537.     112.    60.00
     0.22     5.94     7.15     0.22    0.030    0.030    0.030    0.000    55.00  1372.00
 0.001846     200.     200.     200.        3        9        0     0.00   945.52  2370.07


FLOW DISTRIBUTION FOR SECNO=    367.08          CWSEL=     66.65

STA=    1372.    1410.    1500.    1605.    1715.    1870.    1955.    1995.    2025.    2055.    2370.    2370.
  PER Q=      1.7      6.8     11.3     13.8     16.9      6.5      1.9      0.8      0.5     39.7      0.0
   AREA=    119.8    373.7    535.7    616.2    798.5    352.9    126.1     67.6     52.6   1665.0      0.2
    VEL=      4.4      5.5      6.3      6.7      6.3      5.5      4.6      3.7      3.1      7.2      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 367.180

3265 DIVIDED FLOW

3280 CROSS SECTION    367.18 EXTENDED      2.64 FEET

   367.18    11.64    66.64    65.27     0.00    67.35     0.71     0.02     0.03    65.00
   30000.   18294.   11706.       0.    3034.    1510.       0.     538.     112.    60.00
     0.22     6.03     7.75     0.24    0.030    0.025    0.030    0.000    55.00  1372.00
 0.001906      10.      10.      10.        2       10        0     0.00   927.08  2370.07


FLOW DISTRIBUTION FOR SECNO=    367.18          CWSEL=     66.64

STA=    1372.    1410.    1500.    1605.    1715.    1870.    1955.    1995.    2025.    2055.    2370.    2370.
  PER Q=     1.8      6.9     11.4     14.0     17.1      6.5      1.9      0.8      0.5     39.0      0.0
   AREA=   119.3    372.5    534.3    614.7    796.5    351.8    125.5     67.2     52.2   1509.6      0.2
    VEL=     4.4      5.6      6.4      6.8      6.4      5.6      4.6      3.7      3.1      7.8      0.2

*SECNO 367.980

3265 DIVIDED FLOW

3280 CROSS SECTION    367.98 EXTENDED      2.87 FEET

   367.98    11.87    66.87    65.27     0.00    67.51     0.64     0.14     0.02    65.00
   30000.   18591.   11409.       0.    3194.    1568.       0.     547.     114.    60.00
     0.22     5.82     7.28     0.23    0.030    0.025    0.030    0.000    55.00  1372.00
 0.001670      80.      80.      80.        2       10        0     0.00   935.50  2370.08


FLOW DISTRIBUTION FOR SECNO=    367.98          CWSEL=     66.87

STA=    1372.    1410.    1500.    1605.    1715.    1870.    1955.    1995.    2025.    2055.    2370.    2370.
  PER Q=     1.9      7.1     11.5     14.0     17.2      6.7      2.0      0.9      0.6     38.0      0.0
   AREA=   128.2    393.5    558.9    640.5    832.7    371.7    134.9     74.2     59.2   1567.6      0.3
    VEL=     4.3      5.4      6.2      6.6      6.2      5.4      4.6      3.7      3.2      7.3      0.2

*SECNO 368.220
   368.22    11.79    66.79    64.69     0.00    67.81     1.01     0.11     0.19    56.00
   30000.    9147.   19644.    1208.    1983.    2102.     186.     555.     116.    55.00
     0.22     4.61     9.34     6.49    0.030    0.030    0.030    0.000    55.00  1605.42
 0.001342     120.      30.      30.        2       12        0     0.00   759.65  2365.07
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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


FLOW DISTRIBUTION FOR SECNO=    368.22          CWSEL=     66.79

STA=    1605.    1730.    1745.    1860.    1925.    1950.    2010.    2080.    2120.    2165.    2345.    2365.    2365.
  PER Q=     2.2      1.0      9.5      5.4      1.7      2.6      1.7      0.6      5.8     65.5      4.0      0.0
   AREA=   236.2     64.4    551.0    311.5    107.3    197.5    160.4     71.7    283.1   2102.5    185.8      0.2
    VEL=     2.8      4.8      5.2      5.2      4.8      4.0      3.2      2.7      6.1      9.3      6.5      0.2

CCHV=   0.100 CEHV=   0.300
*SECNO 369.300
   369.30    12.36    67.36    64.78     0.00    67.97     0.61     0.13     0.04    55.00
   30000.   13314.   16295.     391.    2695.    2252.      84.     566.     118.    58.00
     0.23     4.94     7.24     4.66    0.030    0.030    0.030    0.000    55.00  1551.29
 0.001113     110.     100.     100.        2       12        0     0.00   818.78  2370.07


FLOW DISTRIBUTION FOR SECNO=    369.30          CWSEL=     67.36

STA=    1551.    1570.    1590.    1875.    1920.    1930.    2055.    2085.    2115.    2360.    2370.    2370.
  PER Q=     0.4      1.5     25.8      3.5      0.5      4.0      1.9      6.8     54.3      1.3      0.0
   AREA=    40.8     97.3   1529.0    218.9     38.6    358.1    130.9    280.9   2251.9     83.6      0.3
    VEL=     2.7      4.7      5.1      4.7      4.1      3.3      4.4      7.2      7.2      4.7      0.2

*SECNO 370.210
   370.21    12.39    67.39    65.41     0.00    68.15     0.77     0.13     0.05    55.00
   30000.   15250.   14265.     486.    2501.    1796.      88.     577.     119.    60.00
     0.23     6.10     7.94     5.49    0.030    0.030    0.030    0.000    55.00  1583.07
 0.001668     100.     100.     100.        2       10        0     0.00   771.99  2355.06


FLOW DISTRIBUTION FOR SECNO=    370.21          CWSEL=     67.39

STA=    1583.    1605.    1620.    1800.    1900.    1925.    2050.    2070.    2110.    2340.    2355.
  PER Q=     0.5      1.4     20.1      9.5      1.6      4.9      1.6     11.2     47.5      1.6
   AREA=    48.1     73.3    969.5    488.6     97.2    360.8     87.7    375.4   1796.3     88.3
    VEL=     3.4      5.8      6.2      5.8      5.0      4.1      5.3      8.9      7.9      5.5

*SECNO 372.000

3301 HV CHANGED MORE THAN HVINS

   372.00    12.26    67.26    66.34     0.00    68.73     1.47     0.37     0.21    55.00
   30000.    9889.   18554.    1557.    1644.    1627.     223.     594.     123.    57.00
     0.24     6.01    11.41     6.98    0.030    0.030    0.030    0.000    55.00  1631.38
 0.002326     200.     180.     180.        2       15        0     0.00   667.06  2298.44
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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


FLOW DISTRIBUTION FOR SECNO=    372.00          CWSEL=     67.26

STA=    1631.    1645.    1870.    2030.    2050.    2100.    2255.    2298.
  PER Q=     0.2     12.9      7.0      0.9     12.0     61.8      5.2
   AREA=    22.3    735.3    442.9     55.4    388.4   1626.6    223.0
    VEL=     3.3      5.3      4.7      4.7      9.3     11.4      7.0

*SECNO 374.350
   374.35    12.66    67.66    65.98     0.00    69.21     1.55     0.45     0.02    55.00
   30000.    7632.   21496.     872.    1071.    1965.     128.     609.     125.    59.00
     0.24     7.13    10.94     6.84    0.030    0.030    0.030    0.000    55.00  1805.00
 0.002321     205.     190.     190.        0       15        0     0.00   471.03  2276.04


FLOW DISTRIBUTION FOR SECNO=    374.35          CWSEL=     67.66

STA=    1805.    1975.    2045.    2245.    2265.    2276.
  PER Q=     9.0     16.4     71.7      2.8      0.1
   AREA=   535.2    535.4   1964.7    113.0     14.6
    VEL=     5.1      9.2     10.9      7.4      2.8

*SECNO 375.200

3301 HV CHANGED MORE THAN HVINS

   375.20    12.18    67.18    66.91     0.00    69.79     2.61     0.26     0.32    55.00
   30000.    6004.   23996.       0.     750.    1721.       0.     615.     126.    68.00
     0.24     8.00    13.94     0.00    0.030    0.030    0.000    0.000    55.00  1820.00
 0.004281      85.      85.      85.        3       11        0     0.00   416.92  2236.92


FLOW DISTRIBUTION FOR SECNO=    375.20          CWSEL=     67.18

STA=    1820.    1990.    2010.    2045.    2240.
  PER Q=     9.4      0.8      9.8     80.0
   AREA=   455.5     43.6    251.3   1721.3
    VEL=     6.2      5.4     11.8     13.9

*SECNO 377.050

3301 HV CHANGED MORE THAN HVINS

   377.05    14.57    69.57    62.50     0.00    70.17     0.60     0.18     0.20    55.00
   30000.    3763.   23242.    2995.     959.    3496.     589.     629.     128.    55.00
     0.25     3.92     6.65     5.08    0.030    0.030    0.030    0.000    55.00  1835.00
 0.000506     150.     165.     150.        3       14        0     0.00   472.76  2307.76
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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=    377.05          CWSEL=     69.57

STA=    1835.    1905.    1950.    2005.    2245.    2265.    2295.    2308.
  PER Q=     2.1      1.7      8.7     77.5      4.6      4.8      0.6
   AREA=   249.8    183.1    526.3   3496.5    241.4    287.1     61.0
    VEL=     2.5      2.8      5.0      6.6      5.7      5.0      2.7

*SECNO 379.380

3301 HV CHANGED MORE THAN HVINS

   379.38    14.36    69.36    66.01     0.00    70.53     1.17     0.19     0.17    55.00
   30000.    9277.   19210.    1513.    1255.    2043.     247.     651.     130.    58.00
     0.26     7.39     9.40     6.13    0.030    0.030    0.030    0.000    55.00  1810.00
 0.001580     230.     230.     230.        3       12        0     0.00   468.44  2278.44


FLOW DISTRIBUTION FOR SECNO=    379.38          CWSEL=     69.36

STA=    1810.    1920.    1930.    1940.    1985.    2000.    2040.    2235.    2278.
  PER Q=     3.0      0.5      1.2      8.2      3.1     15.0     64.0      5.0
   AREA=   259.7     33.6     58.6    331.2    117.9    454.4   2042.8    246.7
    VEL=     3.4      4.4      6.2      7.5      7.8      9.9      9.4      6.1

*SECNO 380.850
3280 CROSS SECTION    380.85 EXTENDED      0.06 FEET


3301 HV CHANGED MORE THAN HVINS

   380.85    15.05    70.05    63.51     0.00    70.72     0.67     0.14     0.05    55.00
   30000.   11768.   16820.    1413.    2008.    2339.     361.     665.     132.    57.00
     0.26     5.86     7.19     3.92    0.030    0.030    0.030    0.000    55.00  1780.00
 0.000639     160.     140.     140.        2       14        0     0.00   563.52  2343.52


FLOW DISTRIBUTION FOR SECNO=    380.85          CWSEL=     70.05

STA=    1780.    1890.    1895.    1915.    2000.    2100.    2270.    2290.    2330.    2344.
  PER Q=     1.5      0.1      0.1      5.4     32.2     56.1      2.8      1.7      0.2
   AREA=   226.1     10.3     21.1    394.7   1355.5   2339.4    171.1    162.2     27.4
    VEL=     2.0      2.0      1.3      4.1      7.1      7.2      4.9      3.2      1.9
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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 383.100
  383.10   15.40    70.40    64.07     0.00    70.87     0.47     0.13     0.02    55.00
  30000.   16063.   11101.   2836.    2868.    1982.     630.     692.     135.     60.00
    0.28    5.60     5.60    4.50    0.030    0.030    0.030    0.000    55.00  1835.02
0.000508   230.     220.     220.       2       14        0     0.00   543.55  2378.57


FLOW DISTRIBUTION FOR SECNO=    383.10          CWSEL=     70.40

STA=    1835.    1875.    1905.    2035.    2065.    2105.    2120.    2295.    2300.    2345.    2379.
 PER Q=     0.4      3.4     32.1      6.4      7.4      3.8     37.0      0.8      7.0      1.6
  AREA=    67.4    237.0   1611.8    342.0    415.9    193.5   1982.3     49.5    422.9    157.7
   VEL=     1.7      4.3      6.0      5.6      5.3      5.9      5.6      5.1      5.0      3.1

*SECNO 385.000
  385.00   15.49    70.49    64.51     0.00    70.96     0.46     0.09     0.00    55.00
  30000.   8208.   21189.     603.    1763.    3654.     183.     713.     137.     60.00
    0.28    4.66     5.80    3.29    0.030    0.030    0.030    0.000    55.00  1799.82
0.000512   185.     170.     110.       0       14        0     0.00   575.14  2374.96


FLOW DISTRIBUTION FOR SECNO=    385.00          CWSEL=     70.49

STA=    1800.    1830.    1880.    1915.    1970.    1980.    1990.    2005.    2030.    2340.    2375.
 PER Q=     0.6      3.2      3.7      8.7      1.4      1.3      2.2      6.2     70.6      2.0
  AREA=    82.8    274.4    262.1    521.8     89.9     84.9    134.8    312.2   3653.6    183.3
   VEL=     2.2      3.5      4.3      5.0      4.8      4.7      4.8      5.9      5.8      3.3

*SECNO 386.750
  386.75   15.58    70.58    65.07     0.00    71.06     0.48     0.09     0.00    59.00
  30000.   8359.   20435.    1205.    1677.    3488.     305.     735.     139.     59.00
    0.29    4.99     5.86    3.96    0.030    0.030    0.030    0.000    55.00  1773.42
0.000596   170.     170.     160.       0       14        0     0.00   624.47  2397.89


FLOW DISTRIBUTION FOR SECNO=    386.75          CWSEL=     70.58

STA=    1773.    1805.    1820.    1840.    1900.    1945.    2020.    2345.    2395.    2398.
 PER Q=     1.2      1.8      1.2      1.2      4.7     17.9     68.1      4.0      0.0
  AREA=   119.7    113.7    101.6    154.7    318.5    868.4   3488.1    303.9      0.8
   VEL=     2.9      4.7      3.5      2.3      4.4      6.2      5.9      4.0      0.5
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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 388.650
   388.65    15.83     70.83     64.08      0.00     71.16      0.32      0.09      0.02     55.00
   30000.    10852.    18212.     935.     2559.     3787.      313.      761.      142.      59.00
     0.30     4.24      4.81      2.99     0.030     0.030     0.030     0.000     55.00   1742.40
 0.000351    190.      190.      190.         2        14         0      0.00    660.54   2402.94


FLOW DISTRIBUTION FOR SECNO=    388.65          CWSEL=     70.83

STA=    1742.    1780.    1850.    1920.    1950.    1970.    2000.    2030.    2350.    2403.
  PER Q=      0.5      6.0     11.5      5.7      3.0      3.5      6.0     60.7      3.1
   AREA=     90.9    513.4    758.4    355.0    206.7    265.0    370.0   3787.0    313.3
    VEL=      1.7      3.5      4.5      4.8      4.4      4.0      4.9      4.8      3.0

*SECNO 391.350
   391.35    15.91     70.91     63.26      0.00     71.21      0.30      0.05      0.00     59.00
   30000.    3083.    26112.     804.      950.     5759.      299.      787.      145.      59.00
     0.31     3.25      4.53      2.69     0.030     0.030     0.030     0.000     55.00   1756.21
 0.000284    160.      160.      160.         0        11         0      0.00    638.94   2395.15


FLOW DISTRIBUTION FOR SECNO=    391.35          CWSEL=     70.91

STA=    1756.    1785.    1840.    1890.    2345.    2395.
  PER Q=      0.6      3.8      5.8     87.0      2.7
   AREA=     99.5    380.0    470.5   5759.0    298.6
    VEL=      1.9      3.0      3.7      4.5      2.7

*SECNO 392.210
   392.21    15.95     70.95     63.47      0.00     71.28      0.33      0.06      0.01     55.00
   30000.    3920.    23866.    2214.      883.     5027.      793.      816.      147.      59.00
     0.33     4.44      4.75      2.79     0.030     0.030     0.030     0.000     55.00   1730.93
 0.000320    185.      185.      185.         2        11         0      0.00    647.31   2378.23


FLOW DISTRIBUTION FOR SECNO=    392.21          CWSEL=     70.95

STA=    1731.    1765.    1805.    1815.    2220.    2250.    2340.    2378.
  PER Q=      2.2      8.4      2.5     79.6      3.1      3.8      0.5
   AREA=    220.6    517.9    144.5   5027.3    253.4    445.3     94.6
    VEL=      2.9      4.9      5.1      4.7      3.6      2.6      1.6
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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 394.000

3301 HV CHANGED MORE THAN HVINS

   394.00    15.54     70.54     67.88      0.00     71.60      1.06      0.11      0.22     55.00
   30000.    5726.    19992.     4282.      683.     2269.      922.      837.      150.      63.00
     0.33     8.38      8.81      4.64     0.030     0.030     0.030     0.000     55.00   1747.77
 0.001593     175.      175.      175.         2        12         0      0.00    609.21   2356.99


FLOW DISTRIBUTION FOR SECNO=    394.00          CWSEL=     70.54

STA=    1748.    1785.    1825.    1830.    2070.    2155.    2340.    2357.
  PER Q=      3.8     13.4      1.9     66.6      8.3      5.8      0.2
   AREA=    196.3    421.9     65.2   2269.0    429.1    471.4     21.6
    VEL=      5.8      9.5      8.7      8.8      5.8      3.7      2.3

*SECNO 395.550

3301 HV CHANGED MORE THAN HVINS

   395.55    16.29     71.29     64.81      0.00     71.79      0.50      0.13      0.06     55.00
   30000.    1432.    26858.     1711.      414.     4569.      443.      854.      152.      59.00
     0.34     3.46      5.88      3.86     0.030     0.030     0.030     0.000     55.00   1736.41
 0.000505     160.      160.      160.         2        14         0      0.00    540.22   2276.63


FLOW DISTRIBUTION FOR SECNO=    395.55          CWSEL=     71.29

STA=    1736.    1760.    1805.    1810.    2185.    2240.    2277.
  PER Q=      0.6      3.6      0.6     89.5      5.5      0.2
   AREA=     74.2    283.0     56.4   4568.5    400.9     41.9
    VEL=      2.3      3.8      3.3      5.9      4.1      1.2

*SECNO 396.550
   396.55    16.43     71.43     64.23      0.00     71.84      0.41      0.04      0.01     55.00
   30000.    1513.    26609.     1878.      368.     5008.      529.      866.      153.      60.00
     0.34     4.11      5.31      3.55     0.030     0.030     0.030     0.000     55.00   1741.26
 0.000390       95.       95.       95.         2        11         0      0.00    578.36   2319.61


FLOW DISTRIBUTION FOR SECNO=    396.55          CWSEL=     71.43

STA=    1741.    1760.    1770.    1790.    2185.    2220.    2245.    2260.    2315.    2320.
  PER Q=      0.4      0.8      3.8     88.7      4.4      1.6      0.3      0.0      0.0
   AREA=     60.2     69.3    238.5   5008.2    312.4    148.1     43.9     23.4      1.0
    VEL=      2.1      3.5      4.8      5.3      4.2      3.2      1.9      0.6      0.3
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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 397.250
   397.25    11.43     71.43     66.59      0.00     71.87      0.44      0.02      0.01    130.00
   30000.       0.    30000.        0.        0.     5625.        0.     875.      154.     66.00
     0.35     0.00      5.33      0.09     0.000     0.020     0.020     0.000     60.00   1719.96
 0.000281      65.       65.       65.         2        18         0      0.00    630.08   2350.04


FLOW DISTRIBUTION FOR SECNO=    397.25          CWSEL=     71.43

STA=    1720.    2350.
  PER Q=    100.0
   AREA=   5624.8
    VEL=      5.3

*SECNO 398.150

3301 HV CHANGED MORE THAN HVINS

   398.15    10.55     70.55     68.73      0.00     72.33      1.78      0.06      0.40     60.00
   30000.      119.    28631.    1250.       25.     2638.      183.     883.      155.     62.00
     0.35     4.72     10.85      6.84     0.030     0.030     0.030     0.000     60.00   1805.20
 0.003207      85.       85.       85.         3        15         0      0.00    430.31   2235.51


FLOW DISTRIBUTION FOR SECNO=    398.15          CWSEL=     70.55

STA=    1805.    1810.    2155.    2190.    2230.    2236.
  PER Q=      0.4     95.4      4.0      0.1      0.0
   AREA=     25.3   2637.7    159.3     22.0      1.5
    VEL=      4.7     10.9      7.6      1.9      1.2

*SECNO 399.450

3301 HV CHANGED MORE THAN HVINS

   399.45    11.68     71.68     68.30      0.00     72.66      0.97      0.25      0.08     60.00
   30000.      265.    28265.    1470.       89.     3493.      322.     893.      156.     67.00
     0.35     2.99      8.09      4.57     0.030     0.030     0.030     0.000     60.00   1734.39
 0.001366     125.      125.      125.         3        15         0      0.00    501.39   2235.78


FLOW DISTRIBUTION FOR SECNO=    399.45          CWSEL=     71.68

STA=    1734.    1740.    1770.    1775.    2150.    2220.    2236.
  PER Q=      0.0      0.4      0.4     94.2      4.6      0.3
   AREA=      4.7     50.5     33.4   3493.2    292.7     29.1
    VEL=      1.6      2.6      3.8      8.1      4.8      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


*SECNO 401.000

3301 HV CHANGED MORE THAN HVINS

   401.00    12.38    72.38    66.15     0.00    72.84     0.45     0.13     0.05    60.00
   30000.    1198.   28247.     556.     331.    5145.     189.     911.     158.     65.00
     0.36     3.62     5.49     2.93    0.030    0.030    0.030    0.000    60.00  1716.54
 0.000484    165.     165.     165.        2       11        0     0.00   563.97  2280.50


FLOW DISTRIBUTION FOR SECNO=    401.00          CWSEL=     72.38

STA=    1717.    1730.    1760.    1775.    2230.    2265.    2281.
  PER Q=      0.2      1.8      1.9     94.2      1.8      0.1
   AREA=     36.3    161.6    133.3   5145.3    171.0     18.5
    VEL=      2.0      3.3      4.4      5.5      3.1      1.2

*SECNO 402.500
   402.50    12.37    72.37    66.49     0.00    72.96     0.59     0.08     0.04    62.00
   30000.    3041.   26783.     176.     614.    4241.      84.     929.     160.     70.00
     0.37     4.95     6.32     2.10    0.030    0.030    0.030    0.000    60.00  1733.15
 0.000642    150.     150.     150.        2       11        0     0.00   502.51  2235.66


FLOW DISTRIBUTION FOR SECNO=    402.50          CWSEL=     72.37

STA=    1733.    1780.    1820.    2195.    2225.    2236.
  PER Q=      2.5      7.6     89.3      0.5      0.1
   AREA=    219.5    394.8   4241.1     71.1     12.6
    VEL=      3.5      5.8      6.3      2.2      1.4

*SECNO 404.200

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

   404.20    11.95    71.95    69.86     0.00    73.42     1.47     0.19     0.26    62.00
   30000.    9563.   19780.     658.    1020.    1974.     135.     945.     162.     66.00
     0.37     9.37    10.02     4.88    0.030    0.030    0.030    0.000    60.00  1733.69
 0.002495    170.     170.     170.        2       15        0     0.00   457.43  2238.79
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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

FLOW DISTRIBUTION FOR SECNO= 404.20 CWSEL= 71.95

STA=	1734.	1780.	1815.	1850.	1890.	2130.	2140.	2156.	2210.	2230.	2239.
PER Q=	2.3	6.5	9.1	13.9	65.9	1.2	0.4	0.1	0.5	0.1	
AREA=	137.9	225.9	278.4	378.2	1974.0	49.5	31.3	6.4	39.1	8.6	
VEL=	5.1	8.6	9.8	11.1	10.0	7.1	3.8	2.4	3.9	2.4	

*SECNO 405.350

405.35	12.54	72.54	70.30	0.00	73.72	1.18	0.27	0.03	60.00
30000.	12052.	16404.	1544.	1343.	1895.	221.	954.	163.	65.00
0.38	8.97	8.66	6.97	0.030	0.030	0.030	0.000	60.00	1713.08
0.002203	115.	115.	115.	3	15	0	0.00	509.69	2222.77

FLOW DISTRIBUTION FOR SECNO= 405.35 CWSEL= 72.54

STA=	1713.	1730.	1760.	1890.	1910.	2170.	2200.	2205.	2223.
PER Q=	0.2	2.4	29.2	8.4	54.7	4.6	0.3	0.2	
AREA=	21.5	121.1	980.0	220.8	1894.9	181.1	17.7	22.5	
VEL=	2.7	5.9	8.9	11.4	8.7	7.7	5.1	2.7	

*SECNO 406.700

406.70	13.22	73.22	68.21	0.00	73.91	0.69	0.15	0.05	65.00
30000.	691.	24794.	4515.	203.	3511.	975.	965.	165.	60.00
0.38	3.41	7.06	4.63	0.030	0.030	0.030	0.000	60.00	1725.69
0.000732	125.	125.	125.	2	14	0	0.00	500.41	2226.10

FLOW DISTRIBUTION FOR SECNO= 406.70 CWSEL= 73.22

STA=	1726.	1775.	2065.	2085.	2195.	2226.
PER Q=	2.3	82.6	3.8	10.3	0.9	
AREA=	202.7	3511.1	194.4	684.1	96.7	
VEL=	3.4	7.1	5.9	4.5	2.8	

*SECNO 408.000

408.00	13.60	73.60	66.45	0.00	74.01	0.41	0.07	0.03	64.00
30000.	4159.	24267.	1574.	1058.	4496.	419.	983.	167.	60.00
0.39	3.93	5.40	3.75	0.030	0.030	0.030	0.000	60.00	1665.60
0.000373	140.	140.	140.	2	8	0	0.00	532.40	2198.00

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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=    408.00          CWSEL=     73.60

STA=    1666.    1700.    1800.    2135.    2180.    2198.
  PER Q=      1.2     12.6     80.9      5.1      0.2
   AREA=    147.9    910.0   4496.1    387.0     32.4
    VEL=      2.5      4.2      5.4      3.9      1.4

*SECNO 409.250

3301 HV CHANGED MORE THAN HVINS

   409.25    10.32    73.32    69.11     0.00    74.23     0.91     0.07     0.15    69.00
   30000.     407.   28619.     974.     139.    3677.     200.     996.     168.    63.00
     0.40     2.92     7.78     4.88    0.030    0.030    0.030    0.000    63.00  1708.40
 0.001137     115.     115.     115.        2       14        0     0.00   465.30  2173.70


FLOW DISTRIBUTION FOR SECNO=    409.25          CWSEL=     73.32

STA=    1708.    1770.    2135.    2174.
  PER Q=      1.4     95.4      3.2
   AREA=    139.5   3677.0    199.7
    VEL=      2.9      7.8      4.9

*SECNO 410.500

3301 HV CHANGED MORE THAN HVINS

   410.50     8.07    73.07    71.29     0.00    74.64     1.57     0.21     0.20    67.00
   30000.     504.   28198.    1298.      92.    2752.     196.    1006.     169.    65.00
     0.40     5.47    10.25     6.63    0.030    0.030    0.030    0.000    65.00  1739.62
 0.002841     125.     125.     125.        2       14        0     0.00   438.83  2178.45


FLOW DISTRIBUTION FOR SECNO=    410.50          CWSEL=     73.07

STA=    1740.    1770.    2130.    2178.
  PER Q=      1.7     94.0      4.3
   AREA=     92.3   2752.2    195.6
    VEL=      5.5     10.2      6.6

*SECNO 411.250
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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

  411.25     5.89    72.89    72.74     0.00    75.16     2.27     0.31     0.21    68.00
  30000.     427.   25927.    3646.     60.     2076.     388.    1011.     170.     68.00
    0.40     7.15    12.49     9.40    0.030    0.030    0.030    0.000    67.00  1685.55
0.006485     75.      75.      75.       3       19        0     0.00   515.47  2201.02


FLOW DISTRIBUTION FOR SECNO=    411.25          CWSEL=     72.89

STA=    1686.    1710.    2085.    2175.    2201.
  PER Q=      1.4     86.4     11.5      0.6
   AREA=     59.8   2076.5    350.2     37.6
    VEL=      7.1     12.5      9.9      5.1

*SECNO 412.250

3301 HV CHANGED MORE THAN HVINS

  412.25     7.61    74.61    72.04     0.00    75.61     1.00     0.33     0.13    67.00
  30000.    1008.   27945.    1047.    164.     3422.     175.    1018.     171.     67.00
    0.40     6.13     8.17     5.98    0.030    0.030    0.030    0.000    67.00  1651.58
0.001817    105.     105.     105.       3       11        0     0.00   531.44  2183.02


FLOW DISTRIBUTION FOR SECNO=    412.25          CWSEL=     74.61

STA=    1652.    1670.    1690.    2140.    2160.    2183.
  PER Q=      0.5      2.8     93.1      2.8      0.6
   AREA=     42.4    122.1   3422.1    122.1     53.0
    VEL=      3.6      7.0      8.2      7.0      3.6

*SECNO 413.250
3280 CROSS SECTION    413.25 EXTENDED      0.28 FEET

  413.25     8.27    75.27    71.24     0.00    75.78     0.51     0.12     0.05    67.00
  30000.    1044.   28250.     707.    239.     4882.     183.    1029.     173.     67.00
    0.41     4.37     5.79     3.85    0.030    0.030    0.030    0.000    67.00  1530.00
0.000815    100.     100.     100.       2       11        0     0.00   725.00  2255.00
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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=    413.25          CWSEL=     75.27

STA=    1530.    1555.    1580.    2170.    2185.    2210.    2255.
  PER Q=      0.6      2.8     94.2      1.7      0.6      0.0
   AREA=     69.4    169.4   4882.4    101.6     69.4     12.4
    VEL=      2.7      5.0      5.8      5.0      2.8      0.6

*SECNO 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=     550.100
   414.55     8.27    75.27    71.51     0.00    75.95     0.68     0.12     0.05    67.00
   30000.       0.   30000.       0.       0.    4550.       0.    1043.     175. 100000.00
     0.41     0.16     6.59     0.00    0.030    0.030    0.000    0.000    67.00  1679.94
 0.001080     125.     125.     125.        2       11        0     0.00   550.06  2230.00


FLOW DISTRIBUTION FOR SECNO=    414.55          CWSEL=     75.27

STA=    1680.    1680.    2230.
  PER Q=      0.0    100.0
   AREA=      0.3   4549.8
    VEL=      0.2      6.6

*SECNO 416.050
   416.05     8.45    75.45    71.65     0.00    76.11     0.66     0.16     0.00    67.00
   30000.     534.   28543.     923.     112.    4310.     223.    1059.     177.    67.00
     0.42     4.77     6.62     4.14    0.030    0.030    0.030    0.000    67.00  1679.94
 0.001039     155.     155.     155.        2       11        0     0.00   577.87  2257.81


FLOW DISTRIBUTION FOR SECNO=    416.05          CWSEL=     75.45

STA=    1680.    1695.    2205.    2258.
  PER Q=      1.8     95.1      3.1
   AREA=    111.8   4309.6    223.1
    VEL=      4.8      6.6      4.1

*SECNO 417.300
   417.30     8.54    75.54    71.98     0.00    76.26     0.71     0.13     0.02    67.00
   30000.    1866.   27510.     624.     370.    3973.     146.    1072.     178.    67.00
     0.43     5.04     6.92     4.27    0.030    0.030    0.030    0.000    67.00  1643.74
 0.001119     120.     120.     120.        2       11        0     0.00   580.44  2224.18
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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=    417.30          CWSEL=     75.54

STA=    1644.    1665.    1685.    1700.    1725.    2190.    2224.
  PER Q=      0.3      1.1      1.2      3.6     91.7      2.1
   AREA=     37.7     80.9     75.7    176.1   3973.0    146.0
    VEL=      2.4      4.2      4.9      6.1      6.9      4.3

*SECNO 418.450
   418.45     8.46    75.46    72.58     0.00    76.53     1.07     0.16     0.11    70.00
   30000.     339.   28337.    1324.      85.    3354.     248.    1083.     180.    67.00
     0.43     3.98     8.45     5.34    0.030    0.030    0.030    0.000    67.00  1723.80
 0.001725     120.     120.     120.        2       14        0     0.00   489.77  2213.57


FLOW DISTRIBUTION FOR SECNO=    418.45          CWSEL=     75.46

STA=    1724.    1755.    2155.    2214.
  PER Q=      1.1     94.5      4.4
   AREA=     85.2   3354.1    247.8
    VEL=      4.0      8.4      5.3

*SECNO 419.550
   419.55     8.86    75.86    72.64     0.00    76.72     0.86     0.17     0.02    67.00
   30000.    4491.   24505.    1004.     774.    3147.     196.    1093.     181.    67.00
     0.43     5.80     7.79     5.11    0.030    0.030    0.030    0.000    67.00  1666.54
 0.001347     115.     115.     115.        2       14        0     0.00   552.79  2219.33


FLOW DISTRIBUTION FOR SECNO=    419.55          CWSEL=     75.86

STA=    1667.    1690.    1710.    1740.    1775.    1800.    1820.    2175.    2215.    2219.
  PER Q=      0.9      2.3      1.4      2.0      4.2      4.2     81.7      3.3      0.0
   AREA=     68.8    117.3    101.0    135.3    184.1    167.3   3147.1    194.6      1.9
    VEL=      3.9      5.9      4.0      4.4      6.9      7.5      7.8      5.2      1.0

*SECNO 420.650
   420.65     8.84    75.84    73.28     0.00    76.98     1.13     0.17     0.08    67.00
   30000.    3416.   21924.    4660.     448.    2432.     695.    1103.     182.    67.00
     0.44     7.62     9.01     6.70    0.030    0.030    0.030    0.000    67.00  1736.62
 0.001810     110.     110.     110.        2       19        0     0.00   481.18  2217.80
```

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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


FLOW DISTRIBUTION FOR SECNO=    420.65          CWSEL=     75.84

STA=    1737.    1760.    1785.    1810.    2085.    2110.    2170.    2210.    2218.
  PER Q=      1.0      4.3      6.0     73.1      4.9      8.0      2.6      0.0
   AREA=     68.3    171.1    208.6   2432.2    183.6    350.7    153.8      7.2
    VEL=      4.5      7.6      8.7      9.0      7.9      6.8      5.2      2.0

*SECNO 422.300

3301 HV CHANGED MORE THAN HVINS

   422.30     8.82    75.82    73.81     0.00    77.48     1.66     0.34     0.16    68.00
   30000.     548.   25989.    3463.      90.    2439.     420.    1115.     184.    67.00
     0.44     6.10    10.66     8.25    0.030    0.030    0.030    0.000    67.00  1827.00
 0.002643     180.     160.     140.        2       15        0     0.00   391.66  2218.66


FLOW DISTRIBUTION FOR SECNO=    422.30          CWSEL=     75.82

STA=    1827.    1850.    2135.    2175.    2219.
  PER Q=      1.8     86.6      9.4      2.2
   AREA=     90.0   2439.0    292.8    127.1
    VEL=      6.1     10.7      9.6      5.2

*SECNO 423.650

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   423.65     6.49    75.49    75.49     0.00    78.61     3.12     0.56     0.44    69.00
   30000.     552.   28872.     576.      63.    2013.      66.    1123.     185.    69.00
     0.45     8.72    14.34     8.75    0.030    0.030    0.030    0.000    69.00  1820.52
 0.006919     170.     140.     120.        0       15        0     0.00   349.77  2170.29


FLOW DISTRIBUTION FOR SECNO=    423.65          CWSEL=     75.49

STA=    1821.    1840.    2150.    2170.
  PER Q=      1.8     96.2      1.9
   AREA=     63.3   2013.1     65.9
    VEL=      8.7     14.3      8.7
```

THIS RUN EXECUTED: Wed 21-JAN-1987 09:01:20.30

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
**************************************************
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T1      INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2      EA # 1192.2:  SCOTTSDALE LAKES GOLF COURSE:  USCE'S LOW "n" VALUES
T3      DESIGN CONDITIONS(5B )              (1192D5B)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        3.        0.        0.  0.000000     -1.00      0.0       0.     0.000     0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     2.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
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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


*PROF 2

CCHV=   0.100 CEHV=   0.300
*SECNO 314.630
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
3280 CROSS SECTION    314.63 EXTENDED      0.63 FEET

3720 CRITICAL DEPTH ASSUMED
  314.63     6.43    50.63    50.63     0.00    51.69     1.05     0.00     0.00    44.20
  20000.   12809.    6894.     298.    2150.     603.     102.       0.       0.    45.00
    0.00     5.96    11.44     2.92    0.030    0.030    0.030    0.000    44.20  1530.00
0.004853      0.       0.       0.        0       16        0     0.00  1250.00  2780.00


*SECNO 319.760

3301 HV CHANGED MORE THAN HVINS

  319.76     6.20    52.50     0.00     0.00    52.87     0.37     1.11     0.07    52.30
  20000.   15949.    3755.     296.    3245.     791.      88.      41.      13.    47.00
    0.03     4.91     4.74     3.37    0.030    0.030    0.030    0.000    46.30  1670.07
0.001228     510.     510.     510.        2        0        0     0.00   976.95  2647.02


*SECNO 326.350
  326.35     6.28    53.28     0.00     0.00    53.66     0.39     0.79     0.01    53.00
  20000.   16043.    3694.     263.    3187.     752.      81.     102.      28.    48.00
    0.07     5.03     4.92     3.25    0.030    0.030    0.030    0.000    47.00  1625.93
0.001203     650.     650.     650.        2        0        0     0.00   979.82  2605.75


*SECNO 332.150

3265 DIVIDED FLOW

  332.15     6.91    53.91     0.00     0.00    54.38     0.48     0.70     0.03    56.00
  20000.   18603.    1397.       0.    3273.     488.       0.     153.      40.    54.00
    0.09     5.68     2.86     0.00    0.030    0.030    0.000    0.000    47.00  1716.13
0.001217     575.     575.     575.        2        0        0     0.00   829.78  2604.09


*SECNO 336.200
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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


3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   336.20     5.17     55.17     55.17      0.00     56.56      1.38      1.04      0.27     53.00
   20000.   16226.     3737.       37.     1653.      489.       8.       180.       47.     53.00
     0.11     9.82      7.65      4.68     0.030     0.030     0.030     0.000     50.00   1729.14
 0.008481    405.      405.      405.        20        19         0      0.00    789.81   2572.24


*SECNO 341.600
3280 CROSS SECTION    341.60 EXTENDED      2.21 FEET

   341.60     4.20     59.20      0.00      0.00     60.25      1.04      3.66      0.03     56.00
   20000.   15860.     4090.       50.     1957.      476.      12.       209.       57.     57.00
     0.12     8.10      8.60      4.10     0.030     0.030     0.030     0.000     55.00   1570.00
 0.005628    535.      535.      535.         2         0         0      0.00    875.00   2445.00


*SECNO 346.950
3280 CROSS SECTION    346.95 EXTENDED      0.17 FEET


3301 HV CHANGED MORE THAN HVINS

   346.95     6.16     61.16      0.00      0.00     61.51      0.35      1.19      0.07     57.00
   20000.   16608.     3242.      149.     3557.      630.      48.       250.       69.     56.00
     0.16     4.67      5.15      3.13     0.030     0.030     0.030     0.000     55.00   1420.00
 0.001186    535.      535.      535.         3         0         0      0.00    988.45   2408.45


*SECNO 351.180

3265 DIVIDED FLOW

   351.18     4.71     61.71      0.00      0.00     62.30      0.59      0.72      0.07     57.00
   20000.   15920.     3715.      365.     2701.      518.      65.       286.       78.     57.00
     0.17     5.89      7.17      5.61     0.030     0.030     0.030     0.000     57.00   1362.18
 0.002655    420.      420.      420.         3         0         0      0.00    966.73   2352.37
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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 356.690
   356.69      6.91     62.91      0.00      0.00     63.27      0.36      0.95      0.02     62.00
   20000.    16714.     2741.     545.      3397.     623.      172.      333.      91.      58.00
     0.21      4.92      4.40      3.16     0.030     0.030     0.030     0.000    56.00   1318.71
 0.001235     545.      545.      545.        2         0         0      0.00  1071.44   2390.15

*SECNO 360.850

3265 DIVIDED FLOW

3280 CROSS SECTION    360.85 EXTENDED      2.12 FEET

3301 HV CHANGED MORE THAN HVINS

   360.85      8.12     63.12      0.00      0.00     64.43      1.31      0.88      0.29     60.00
   20000.    12357.     7452.     191.      1555.     677.       36.      363.      99.      59.00
     0.22      7.95     11.00      5.25     0.030     0.030     0.030     0.000    55.00   1555.00
 0.004428     415.      415.      415.        3         0         0      0.00   623.72   2247.68

*SECNO 365.100

3265 DIVIDED FLOW

3280 CROSS SECTION    365.10 EXTENDED      3.97 FEET

3301 HV CHANGED MORE THAN HVINS

   365.10      9.97     64.97      0.00      0.00     65.43      0.47      0.92      0.08     60.00
   20000.     9207.    10565.     228.      2032.    1700.       70.      393.      106.     60.00
     0.24      4.53      6.21      3.23     0.030     0.030     0.030     0.000    55.00   1510.00
 0.001294     420.      420.      420.        2         0         0      0.00   822.92   2378.38

CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

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


3280 CROSS SECTION    367.08 EXTENDED      1.23 FEET

  367.08    10.22     65.22      0.00      0.00     65.82      0.60      0.32      0.07     65.00
  20000.   10399.     9601.       0.     2070.     1324.       0.      409.      110.     60.00
    0.25     5.02      7.25      0.20     0.030     0.030     0.030     0.000     55.00   1372.00
0.002039     200.      200.      200.         2         0         0      0.00    903.46   2370.05


*SECNO 367.180

3265 DIVIDED FLOW

3280 CROSS SECTION    367.18 EXTENDED      1.20 FEET

  367.18    10.20     65.20      0.00      0.00     65.88      0.68      0.02      0.04     65.00
  20000.   10486.     9514.       0.     2052.     1192.       0.      410.      110.     60.00
    0.25     5.11      7.98      0.22     0.030     0.025     0.030     0.000     55.00   1372.00
0.002127      10.       10.       10.         2         0         0      0.00    884.88   2370.06


*SECNO 367.980

3265 DIVIDED FLOW

3280 CROSS SECTION    367.98 EXTENDED      1.51 FEET

  367.98    10.51     65.51      0.00      0.00     66.07      0.57      0.15      0.04     65.00
  20000.   10929.     9071.       0.     2262.     1255.       0.      416.      112.     60.00
    0.25     4.83      7.23      0.20     0.030     0.025     0.030     0.000     55.00   1372.00
0.001714      80.       80.       80.         2         0         0      0.00    892.26   2370.06


*SECNO 368.220
  368.22    10.50     65.50      0.00      0.00     66.26      0.76      0.09      0.10     56.00
  20000.    4501.    14619.      880.     1287.     1870.      160.      422.      114.     55.00
    0.26     3.50      7.82      5.49     0.030     0.030     0.030     0.000     55.00   1647.91
0.001099     120.       30.       30.         2         0         0      0.00    717.14   2365.05


CCHV=   0.100 CEHV=   0.300
*SECNO 369.300
  369.30    10.91     65.91      0.00      0.00     66.40      0.48      0.11      0.03     55.00
  20000.    7623.    12079.      298.     1883.     1897.       69.      431.      115.     58.00
    0.26     4.05      6.37      4.29     0.030     0.030     0.030     0.000     55.00   1557.50
0.001082     110.      100.      100.         2         0         0      0.00    812.56   2370.06
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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 370.210
  370.21    10.96     65.96     0.00      0.00      66.57     0.62      0.14      0.04      55.00
  20000.    9221.     10450.    330.      1752.     1467.     67.       439.      117.      60.00
    0.27    5.26      7.12      4.93      0.030     0.030     0.030     0.000     55.00   1590.22
 0.001757   100.      100.      100.      2         0         0         0.00      764.82  2355.04


*SECNO 372.000

3301 HV CHANGED MORE THAN HVINS

  372.00    10.89     65.89     0.00      0.00      67.12     1.22      0.36      0.18      55.00
  20000.    4777.     14196.    1027.     1008.     1415.     168.      452.      120.      57.00
    0.27    4.74      10.03     6.13      0.030     0.030     0.030     0.000     55.00   1637.08
 0.002168   200.      180.      180.      2         0         0         0.00      655.58  2292.66


*SECNO 374.350
  374.35    11.51     66.51     0.00      0.00      67.51     1.00      0.37      0.02      55.00
  20000.    4369.     15129.    502.      798.      1738.     95.       464.      123.      59.00
    0.28    5.47      8.71      5.28      0.030     0.030     0.030     0.000     55.00   1805.01
 0.001731   205.      190.      190.      2         0         0         0.00      466.30  2271.31


*SECNO 375.200

3301 HV CHANGED MORE THAN HVINS

  375.20    11.27     66.27     0.00      0.00      67.89     1.62      0.19      0.18      55.00
  20000.    3198.     16802.    0.        547.      1549.     0.        468.      124.      68.00
    0.28    5.84      10.84     0.00      0.030     0.030     0.000     0.000     55.00   1820.01
 0.002908   85.       85.       85.       2         0         0         0.00      413.53  2233.54


*SECNO 377.050

3301 HV CHANGED MORE THAN HVINS

  377.05    12.76     67.76     0.00      0.00      68.14     0.39      0.13      0.12      55.00
  20000.    1942.     16174.    1884.     652.      3063.     478.      480.      125.      55.00
    0.29    2.98      5.28      3.94      0.030     0.030     0.030     0.000     55.00   1835.01
 0.000381   150.      165.      150.      2         0         0         0.00      470.35  2305.35
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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 379.380
  379.38    12.57     67.57     0.00      0.00      68.44     0.87      0.15      0.15      55.00
  20000.    5604.     13477.    918.      845.      1695.     175.      498.      128.      58.00
    0.30    6.63      7.95      5.24      0.030     0.030     0.030     0.000     55.00   1810.00
 0.001450   230.      230.      230.      2         0         0         0.00      461.61  2271.61


*SECNO 380.850

3265 DIVIDED FLOW

  380.85    13.12     68.12     0.00      0.00      68.60     0.48      0.12      0.04      55.00
  20000.    7612.     11728.    659.      1453.     2011.     225.      509.      130.      57.00
    0.31    5.24      5.83      2.93      0.030     0.030     0.030     0.000     55.00   1780.00
 0.000515   160.      140.      140.      2         0         0         0.00      508.10  2337.07


*SECNO 383.100
  383.10    13.40     68.40     0.00      0.00      68.72     0.32      0.11      0.02      55.00
  20000.    10825.    7466.     1709.     2322.     1633.     470.      530.      132.      60.00
    0.32    4.66      4.57      3.63      0.030     0.030     0.030     0.000     55.00   1858.67
 0.000439   230.      220.      220.      2         0         0         0.00      512.76  2371.43


*SECNO 385.000
  385.00    13.47     68.47     0.00      0.00      68.80     0.33      0.08      0.00      55.00
  20000.    4990.     14687.    323.      1310.     3029.     120.      547.      134.      60.00
    0.33    3.81      4.85      2.70      0.030     0.030     0.030     0.000     55.00   1810.89
 0.000459   185.      170.      110.      0         0         0         0.00      557.35  2368.25


*SECNO 386.750
  386.75    13.54     68.54     0.00      0.00      68.90     0.36      0.09      0.01      59.00
  20000.    5223.     14093.    684.      1185.     2829.     207.      564.      137.      59.00
    0.34    4.41      4.98      3.30      0.030     0.030     0.030     0.000     55.00   1781.88
 0.000570   170.      170.      160.      0         0         0         0.00      606.53  2388.41


*SECNO 388.650
  388.65    13.76     68.76     0.00      0.00      68.99     0.23      0.08      0.01      55.00
  20000.    6955.     12515.    530.      1980.     3124.     213.      585.      139.      59.00
    0.35    3.51      4.01      2.49      0.030     0.030     0.030     0.000     55.00   1758.51
 0.000314   190.      190.      190.      2         0         0         0.00      635.17  2393.68
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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


*SECNO 391.350
  391.35    13.83     68.83      0.00      0.00     69.03      0.20      0.04      0.00     59.00
  20000.    1712.    17843.     445.      681.     4814.      204.      605.      142.     59.00
    0.37     2.51      3.71      2.18     0.030     0.030     0.030     0.000     55.00   1764.86
0.000241     160.      160.      160.         0         0         0      0.00    621.54   2386.40


*SECNO 392.210
  392.21    13.86     68.86      0.00      0.00     69.09      0.23      0.05      0.01     55.00
  20000.    2666.    16342.     993.      713.     4183.      480.      629.      144.     59.00
    0.38     3.74      3.91      2.07     0.030     0.030     0.030     0.000     55.00   1736.41
0.000277     185.      185.      185.         2         0         0      0.00    625.72   2362.13


*SECNO 394.000

3301 HV CHANGED MORE THAN HVINS

  394.00    13.42     68.42      0.00      0.00     69.43      1.01      0.10      0.23     55.00
  20000.    4236.    14547.    1217.      517.     1760.      329.      645.      147.     63.00
    0.39     8.19      8.26      3.70     0.030     0.030     0.030     0.000     55.00   1755.25
0.001966     175.      175.      175.         2         0         0      0.00    587.60   2342.85


*SECNO 395.550

3301 HV CHANGED MORE THAN HVINS

  395.55    14.28     69.28      0.00      0.00     69.62      0.34      0.13      0.07     55.00
  20000.     704.    18399.     897.      273.     3815.      291.      658.      149.     59.00
    0.40     2.57      4.82      3.08     0.030     0.030     0.030     0.000     55.00   1743.95
0.000432     160.      160.      160.         2         0         0      0.00    500.53   2244.48


*SECNO 396.550
  396.55    14.39     69.39      0.00      0.00     69.66      0.27      0.04      0.01     55.00
  20000.     927.    18067.    1006.      275.     4205.      356.      668.      150.     60.00
    0.40     3.37      4.30      2.83     0.030     0.030     0.030     0.000     55.00   1747.19
0.000322      95.       95.       95.         0         0         0      0.00    507.98   2255.18


*SECNO 397.250
  397.25     9.37     69.37      0.00      0.00     69.70      0.33      0.02      0.02    130.00
  20000.       0.    20000.        0.        0.     4327.        0.      674.      151.     66.00
    0.41     0.00      4.62      0.01     0.000     0.020     0.020     0.000     60.00   1719.98
0.000299      65.       65.       65.         2         0         0      0.00    630.05   2350.02
```

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 398.150

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

398.15	8.68	68.68	0.00	0.00	70.08	1.40	0.06	0.32	60.00
20000.	71.	19323.	606.	17.	2016.	98.	681.	152.	62.00
0.41	4.17	9.59	6.20	0.030	0.030	0.030	0.000	60.00	1806.05
0.003243	85.	85.	85.	3	0	0	0.00	353.69	2184.24

*SECNO 399.450

3301 HV CHANGED MORE THAN HVINS

399.45	9.63	69.63	0.00	0.00	70.41	0.77	0.26	0.06	60.00
20000.	74.	19446.	481.	23.	2724.	155.	688.	153.	67.00
0.41	3.18	7.14	3.10	0.030	0.030	0.030	0.000	60.00	1770.18
0.001481	125.	125.	125.	3	0	0	0.00	456.81	2226.99

*SECNO 401.000

401.00	10.25	70.25	0.00	0.00	70.57	0.32	0.12	0.05	60.00
20000.	599.	19203.	198.	212.	4176.	97.	702.	155.	65.00
0.42	2.82	4.60	2.04	0.030	0.030	0.030	0.000	60.00	1721.86
0.000449	165.	165.	165.	2	0	0	0.00	544.80	2266.66

*SECNO 402.500

402.50	10.26	70.26	0.00	0.00	70.68	0.41	0.08	0.03	62.00
20000.	1830.	18166.	4.	443.	3452.	8.	716.	156.	70.00
0.43	4.14	5.26	0.49	0.030	0.030	0.030	0.000	60.00	1743.68
0.000587	150.	150.	150.	2	0	0	0.00	482.52	2226.19

*SECNO 404.200

3301 HV CHANGED MORE THAN HVINS

404.20	9.86	69.86	0.00	0.00	71.13	1.27	0.19	0.26	62.00
20000.	6289.	13535.	175.	711.	1473.	36.	728.	158.	66.00
0.44	8.85	9.19	4.92	0.030	0.030	0.030	0.000	60.00	1749.92
0.003099	170.	170.	170.	2	0	0	0.00	397.54	2147.47

```
  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 405.350
  405.35    10.42     70.42     0.00      0.00      71.50     1.08      0.35      0.02      60.00
  20000.    8278.     10900.    822.      942.      1345.     125.      735.      159.      65.00
    0.44    8.79      8.10      6.55      0.030     0.030     0.030     0.000     60.00   1727.18
 0.003049   115.      115.      115.        3         0         0       0.00    480.78   2207.96


*SECNO 406.700

3301 HV CHANGED MORE THAN HVINS

  406.70    11.22     71.22     0.00      0.00      71.71     0.50      0.15      0.06      65.00
  20000.    310.      17329.    2361.     116.      2932.     663.      743.      161.      60.00
    0.45    2.67      5.91      3.56      0.030     0.030     0.030     0.000     60.00   1737.67
 0.000652   125.      125.      125.        2         0         0       0.00    478.44   2216.11


*SECNO 408.000
  408.00    11.52     71.52     0.00      0.00      71.80     0.27      0.06      0.02      64.00
  20000.    2404.     16713.    883.      787.      3800.     299.      757.      162.      60.00
    0.46    3.05      4.40      2.95      0.030     0.030     0.030     0.000     60.00   1673.91
 0.000310   140.      140.      140.        2         0         0       0.00    513.71   2187.61


*SECNO 409.250
  409.25    8.31      71.31     0.00      0.00      71.97     0.66      0.06      0.12      69.00
  20000.    72.       19391.    537.      40.       2945.     130.      768.      164.      63.00
    0.46    1.80      6.58      4.14      0.030     0.030     0.030     0.000     63.00   1735.29
 0.001094   115.      115.      115.        2         0         0       0.00    430.89   2166.18


*SECNO 410.500

3301 HV CHANGED MORE THAN HVINS

  410.50    6.06      71.06     0.00      0.00      72.41     1.34      0.23      0.20      67.00
  20000.    195.      19122.    683.      41.       2030.     111.      775.      165.      65.00
    0.47    4.71      9.42      6.18      0.030     0.030     0.030     0.000     65.00   1749.65
 0.003602   125.      125.      125.        2         0         0       0.00    416.77   2166.42


*SECNO 411.250
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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
  411.25     4.57     71.57     71.57      0.00     73.44      1.87      0.38      0.16     68.00
  20000.     201.    17878.     1921.       32.     1582.      243.      779.      166.     68.00
    0.47     6.29     11.30      7.92     0.030     0.030     0.030     0.000     67.00   1692.14
0.007640      75.       75.       75.        20        15         0      0.00    497.00   2189.14


*SECNO 412.250

3301 HV CHANGED MORE THAN HVINS

  412.25     6.19     73.19      0.00      0.00     73.88      0.69      0.32      0.12     67.00
  20000.     578.    18830.      592.      114.     2787.      119.      785.      167.     67.00
    0.47     5.06      6.76      4.96     0.030     0.030     0.030     0.000     67.00   1657.23
0.001636     105.      105.      105.         3         0         0      0.00    518.74   2175.97


*SECNO 413.250
  413.25     6.67     73.67      0.00      0.00     74.02      0.36      0.11      0.03     67.00
  20000.     592.    19028.      380.      163.     3931.      111.      793.      168.     67.00
    0.48     3.64      4.84      3.42     0.030     0.030     0.030     0.000     67.00   1536.68
0.000761     100.      100.      100.         1         0         0      0.00    666.63   2203.32


*SECNO 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=     550.100
  414.55     6.71     73.71      0.00     75.27     74.16      0.46      0.11      0.03     67.00
  20000.       0.    20000.        0.        0.     3688.        0.      804.      170. 100000.00
    0.48     0.13      5.42      0.00     0.030     0.030     0.000     0.000     67.00   1679.95
0.000963     125.      125.      125.         2         0         0      0.00    550.05   2230.00


*SECNO 416.050
  416.05     6.85     73.85      0.00     75.45     74.31      0.46      0.15      0.00     67.00
  20000.     357.    19141.      502.       88.     3491.      146.      817.      172.     67.00
    0.49     4.07      5.48      3.42     0.030     0.030     0.030     0.000     67.00   1679.96
0.000942     155.      155.      155.         1         0         0      0.00    567.83   2247.79
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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 417.300
   417.30     6.94     73.94      0.00     75.54     74.44      0.50      0.12      0.01     67.00
   20000.     1009.    18647.     344.      248.     3228.      96.       827.      173.      67.00
     0.50     4.07      5.78      3.57     0.030     0.030     0.030     0.000     67.00   1653.35
 0.001027     120.      120.      120.        2         0         0      0.00    564.41   2217.76


*SECNO 418.450
   418.45     6.92     73.92      0.00     75.46     74.66      0.74      0.15      0.07     70.00
   20000.     133.     19133.     734.      44.      2740.     166.      836.      175.      67.00
     0.50     3.02      6.98      4.42     0.030     0.030     0.030     0.000     67.00   1732.57
 0.001543     120.      120.      120.        2         0         0      0.00    470.37   2202.94


*SECNO 419.550

3265 DIVIDED FLOW

   419.55     7.21     74.21      0.00     75.86     74.83      0.63      0.16      0.01     67.00
   20000.     2556.    16910.     534.      529.     2558.     130.      845.      176.      67.00
     0.51     4.84      6.61      4.11     0.030     0.030     0.030     0.000     67.00   1673.17
 0.001279     115.      115.      115.        2         0         0      0.00    528.48   2211.03


*SECNO 420.650
   420.65     7.23     74.23      0.00     75.84     75.05      0.82      0.16      0.06     67.00
   20000.     2153.    15238.    2609.      335.     1989.     487.      852.      177.      67.00
     0.51     6.43      7.66      5.36     0.030     0.030     0.030     0.000     67.00   1743.07
 0.001710     110.      110.      110.        2         0         0      0.00    467.91   2210.98


*SECNO 422.300
   422.30     7.33     74.33      0.00     75.82     75.46      1.13      0.31      0.09     68.00
   20000.     291.     17638.    2071.       59.     2014.     304.      862.      179.      67.00
     0.52     4.94      8.76      6.82     0.030     0.030     0.030     0.000     67.00   1831.38
 0.002305     180.      160.      140.        2         0         0      0.00    376.09   2207.47


*SECNO 423.650

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

423.65	4.97	73.97	73.97	75.49	76.39	2.42	0.53	0.39	69.00
20000.	284.	19419.	297.	37.	1542.	39.	868.	180.	69.00
0.52	7.66	12.59	7.68	0.030	0.030	0.030	0.000	69.00	1825.08
0.007609	170.	140.	120.	3	14	0	0.00	340.47	2165.55

THIS RUN EXECUTED: Wed 21-JAN-1987 09:03:14.49

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*************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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T1      INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2      EA # 1192.2:  SCOTTSDALE LAKES GOLF COURSE:  USCE'S LOW "n" VALUES
T3      DESIGN CONDITIONS(5B )              (1192D5B)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        4.        0.        0.  0.000000     -1.00      0.0       0.     0.000     0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     3.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
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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


*PROF 3

CCHV=   0.100 CEHV=   0.300
*SECNO 314.630
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
3280 CROSS SECTION    314.63 EXTENDED      0.39 FEET

3720 CRITICAL DEPTH ASSUMED
   314.63     6.19     50.39     50.39      0.00     51.39      0.99      0.00      0.00     44.20
   17000.   10481.     6359.      161.     1907.      579.       71.        0.        0.     45.00
     0.00     5.50     10.98      2.26     0.030     0.030     0.030     0.000     44.20   1530.00
 0.004724       0.        0.        0.         0        16         0      0.00   1250.00   2780.00


*SECNO 319.760

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

   319.76     5.88     52.18      0.00      0.00     52.49      0.31      1.03      0.07     52.30
   17000.   13561.     3198.      241.     3000.      735.       78.       37.       13.     47.00
     0.03     4.52      4.35      3.10     0.030     0.030     0.030     0.000     46.30   1672.21
 0.001122     510.      510.      510.         2         0         0      0.00    952.95   2645.15


*SECNO 326.350

3265 DIVIDED FLOW

   326.35     5.89     52.89      0.00      0.00     53.23      0.34      0.74      0.01     53.00
   17000.   13645.     3146.      209.     2889.      692.       70.       93.       27.     48.00
     0.07     4.72      4.55      3.01     0.030     0.030     0.030     0.000     47.00   1635.74
 0.001141     650.      650.      650.         2         0         0      0.00    906.26   2603.50


*SECNO 332.150

3265 DIVIDED FLOW

   332.15     6.50     53.50      0.00      0.00     53.91      0.42      0.66      0.02     56.00
   17000.   16028.      972.        0.     3027.      395.        0.       140.       38.     54.00
     0.10     5.30      2.46      0.00     0.030     0.030     0.000     0.000     47.00   1721.27
 0.001148     575.      575.      575.         2         0         0      0.00    817.44   2599.98
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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 336.200

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   336.20      4.89     54.89     54.89      0.00     56.14      1.25      1.00      0.25     53.00
   17000.    13987.     2988.       26.     1497.      425.        6.      165.       46.     53.00
     0.11      9.34      7.02      4.30     0.030     0.030     0.030     0.000     50.00   1730.55
 0.008595      405.      405.      405.        20        19         0      0.00    784.67   2571.30


*SECNO 341.600

3265 DIVIDED FLOW

3280 CROSS SECTION    341.60 EXTENDED      1.91 FEET

   341.60      3.90     58.90      0.00      0.00     59.84      0.94      3.67      0.03     56.00
   17000.    13453.     3515.       32.     1746.      435.        9.      190.       55.     57.00
     0.13      7.70      8.09      3.54     0.030     0.030     0.030     0.000     55.00   1570.00
 0.005607      535.      535.      535.         3         0         0      0.00    765.57   2444.53


*SECNO 346.950

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

   346.95      5.77     60.77      0.00      0.00     61.07      0.30      1.16      0.06     57.00
   17000.    14074.     2807.      119.     3231.      583.       41.      227.       66.     56.00
     0.17      4.36      4.81      2.92     0.030     0.030     0.030     0.000     55.00   1421.67
 0.001148      535.      535.      535.         3         0         0      0.00    963.44   2407.06


*SECNO 351.180
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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

351.18	4.32	61.32	0.00	0.00	61.86	0.54	0.71	0.07	57.00
17000.	13403.	3289.	308.	2385.	476.	57.	260.	75.	57.00
0.19	5.62	6.91	5.44	0.030	0.030	0.030	0.000	57.00	1365.05
0.002760	420.	420.	420.	2	0	0	0.00	951.41	2351.09

*SECNO 356.690

3265 DIVIDED FLOW

356.69	6.51	62.51	0.00	0.00	62.83	0.32	0.96	0.02	62.00
17000.	14289.	2280.	430.	3063.	561.	145.	301.	87.	58.00
0.22	4.67	4.06	2.96	0.030	0.030	0.030	0.000	56.00	1321.91
0.001212	545.	545.	545.	2	0	0	0.00	1039.83	2384.44

*SECNO 360.850

3265 DIVIDED FLOW

3280 CROSS SECTION 360.85 EXTENDED 1.78 FEET

3301 HV CHANGED MORE THAN HVINS

360.85	7.78	62.78	0.00	0.00	63.94	1.16	0.85	0.25	60.00
17000.	10259.	6594.	148.	1385.	639.	31.	329.	95.	59.00
0.23	7.41	10.32	4.82	0.030	0.030	0.030	0.000	55.00	1555.00
0.004203	415.	415.	415.	3	0	0	0.00	608.04	2246.19

*SECNO 365.100

3265 DIVIDED FLOW

3280 CROSS SECTION 365.10 EXTENDED 3.49 FEET

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


  365.10     9.49     64.49      0.00      0.00     64.91      0.42      0.90      0.07     60.00
  17000.    7502.     9324.     174.      1777.     1576.      58.      355.      102.      60.00
    0.26     4.22      5.92     3.03      0.030     0.030     0.030     0.000     55.00   1510.00
0.001299     420.      420.     420.        2         0         0      0.00    814.78   2375.64


CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

3265 DIVIDED FLOW

3280 CROSS SECTION    367.08 EXTENDED      0.74 FEET

  367.08     9.74     64.74      0.00      0.00     65.32      0.58      0.33      0.08     65.00
  17000.    8242.     8758.       0.      1742.     1219.       0.      370.      106.      60.00
    0.27     4.73      7.19     0.19      0.030     0.030     0.030     0.000     55.00   1372.00
0.002158     200.      200.     200.        2         0         0      0.00    865.75   2370.05


*SECNO 367.180

3265 DIVIDED FLOW

3280 CROSS SECTION    367.18 EXTENDED      0.71 FEET

  367.18     9.71     64.71      0.00      0.00     65.39      0.68      0.02      0.05     65.00
  17000.    8293.     8707.       0.      1724.     1096.       0.      371.      106.      60.00
    0.27     4.81      7.95     0.21      0.030     0.025     0.030     0.000     55.00   1372.00
0.002254      10.       10.      10.        2         0         0      0.00    846.76   2370.05


*SECNO 367.980

3265 DIVIDED FLOW

3280 CROSS SECTION    367.98 EXTENDED      1.04 FEET

  367.98    10.04     65.04      0.00      0.00     65.59      0.55      0.16      0.04     65.00
  17000.    8692.     8307.       0.      1941.     1160.       0.      376.      108.      60.00
    0.27     4.48      7.16     0.19      0.030     0.025     0.030     0.000     55.00   1372.00
0.001728      80.       80.      80.        2         0         0      0.00    880.98   2370.06
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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 368.220
   368.22    10.06     65.06     0.00      0.00      65.72     0.66      0.08      0.06      56.00
   17000.    3326.     12906.    768.      1064.     1791.     151.      381.      110.      55.00
     0.27     3.13      7.21     5.08      0.030     0.030     0.030     0.000     55.00   1662.27
 0.000989    120.       30.      30.        2         0         0       0.00     702.78   2365.05


CCHV=   0.100 CEHV=   0.300
*SECNO 369.300
   369.30    10.41     65.41     0.00      0.00      65.85     0.44      0.11      0.02      55.00
   17000.    6000.     10733.    267.      1601.     1773.     64.       389.      111.      58.00
     0.28     3.75      6.05     4.15      0.030     0.030     0.030     0.000     55.00   1559.67
 0.001071    110.       100.     100.       2         0         0       0.00     810.39   2370.05


*SECNO 370.210
   370.21    10.45     65.45     0.00      0.00      66.03     0.57      0.14      0.04      55.00
   17000.    7470.     9251.     279.      1491.     1352.     59.       396.      113.      60.00
     0.28     5.01      6.84     4.71      0.030     0.030     0.030     0.000     55.00   1592.74
 0.001810    100.       100.     100.       2         0         0       0.00     762.30   2355.04


*SECNO 372.000

3301 HV CHANGED MORE THAN HVINS

   372.00    10.43     65.43     0.00      0.00      66.55     1.12      0.36      0.16      55.00
   17000.    3456.     12677.    867.      792.      1342.     150.      408.      116.      57.00
     0.29     4.36      9.44     5.76      0.030     0.030     0.030     0.000     55.00   1639.02
 0.002059    200.       180.     180.       2         0         0       0.00     651.66   2290.69


*SECNO 374.350
   374.35    11.07     66.07     0.00      0.00      66.92     0.85      0.34      0.03      55.00
   17000.    3448.     13155.    398.      693.      1650.     84.       418.      119.      59.00
     0.30     4.98      7.97     4.74      0.030     0.030     0.030     0.000     55.00   1805.01
 0.001556    205.       190.     190.       2         0         0       0.00     464.46   2269.47


*SECNO 375.200

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

  375.20    10.88     65.88     0.00      0.00      67.24     1.37      0.17      0.15      55.00
  17000.    2402.     14598.    0.        458.      1475.     0.        422.      120.      68.00
    0.30    5.24      9.89      0.00      0.030     0.030     0.000     0.000     55.00   1820.01
 0.002557   85.       85.       85.       2         0         0         0.00      412.05  2232.06

*SECNO 377.050

3301 HV CHANGED MORE THAN HVINS

  377.05    12.14     67.14     0.00      0.00      67.46     0.32      0.12      0.10      55.00
  17000.    1480.     13960.    1560.     548.      2915.     441.      433.      121.      55.00
    0.31    2.70      4.79      3.53      0.030     0.030     0.030     0.000     55.00   1835.01
 0.000335   150.      165.      150.      2         0         0         0.00      469.52  2304.53

*SECNO 379.380
  379.38    11.96     66.96     0.00      0.00      67.74     0.77      0.14      0.14      55.00
  17000.    4637.     11613.    750.      709.      1576.     154.      450.      124.      58.00
    0.32    6.54      7.37      4.88      0.030     0.030     0.030     0.000     55.00   1920.16
 0.001370   230.      230.      230.      2         0         0         0.00      349.14  2269.29

*SECNO 380.850
  380.85    12.49     67.49     0.00      0.00      67.88     0.40      0.11      0.04      55.00
  17000.    6459.     10064.    477.      1342.     1903.     183.      460.      125.      57.00
    0.33    4.81      5.29      2.61      0.030     0.030     0.030     0.000     55.00   1948.62
 0.000456   160.      140.      140.      2         0         0         0.00      386.34  2334.95

*SECNO 383.100
  383.10    12.72     67.72     0.00      0.00      67.99     0.27      0.10      0.01      55.00
  17000.    9250.     6360.     1390.     2146.     1513.     419.      479.      127.      60.00
    0.34    4.31      4.20      3.32      0.030     0.030     0.030     0.000     55.00   1866.62
 0.000410   230.      220.      220.      2         0         0         0.00      502.37  2368.99

*SECNO 385.000
  385.00    12.79     67.79     0.00      0.00      68.07     0.28      0.07      0.00      55.00
  17000.    4070.     12678.    251.      1161.     2816.     101.      495.      129.      60.00
    0.35    3.51      4.50      2.49      0.030     0.030     0.030     0.000     55.00   1814.68
 0.000437   185.      170.      110.      0         0         0         0.00      551.27  2365.95
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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 386.750

3265 DIVIDED FLOW

386.75	12.85	67.85	0.00	0.00	68.16	0.31	0.08	0.01	59.00
17000.	4361.	12088.	551.	1028.	2601.	178.	511.	131.	59.00
0.36	4.24	4.65	3.09	0.030	0.030	0.030	0.000	55.00	1784.79
0.000554	170.	170.	160.	1	0	0	0.00	539.10	2385.23

*SECNO 388.650

388.65	13.05	68.05	0.00	0.00	68.25	0.19	0.08	0.01	55.00
17000.	5812.	10765.	423.	1790.	2897.	183.	530.	134.	59.00
0.38	3.25	3.72	2.31	0.030	0.030	0.030	0.000	55.00	1764.02
0.000299	190.	190.	190.	2	0	0	0.00	626.48	2390.51

*SECNO 391.350

391.35	13.12	68.12	0.00	0.00	68.29	0.17	0.04	0.00	59.00
17000.	1337.	15313.	351.	593.	4491.	175.	548.	136.	59.00
0.39	2.25	3.41	2.00	0.030	0.030	0.030	0.000	55.00	1767.82
0.000224	160.	160.	160.	0	0	0	0.00	615.59	2383.41

*SECNO 392.210

392.21	13.15	68.15	0.00	0.00	68.34	0.19	0.04	0.01	55.00
17000.	2286.	14021.	693.	658.	3894.	381.	570.	139.	59.00
0.41	3.47	3.60	1.82	0.030	0.030	0.030	0.000	55.00	1738.29
0.000259	185.	185.	185.	2	0	0	0.00	618.32	2356.61

*SECNO 394.000

3301 HV CHANGED MORE THAN HVINS

394.00	12.73	67.73	0.00	0.00	68.66	0.94	0.10	0.22	55.00
17000.	3700.	12546.	754.	466.	1592.	190.	584.	141.	63.00
0.41	7.95	7.88	3.97	0.030	0.030	0.030	0.000	55.00	1757.73
0.002045	175.	175.	175.	2	0	0	0.00	392.62	2150.35

*SECNO 395.550

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

395.55	13.56	68.56	0.00	0.00	68.85	0.29	0.12	0.06	55.00
17000.	512.	15784.	704.	227.	3546.	251.	596.	142.	59.00
0.42	2.26	4.45	2.80	0.030	0.030	0.030	0.000	55.00	1746.64
0.000406	160.	160.	160.	2	0	0	0.00	490.95	2237.59

*SECNO 396.550

396.55	13.66	68.66	0.00	0.00	68.89	0.23	0.03	0.01	55.00
17000.	762.	15464.	774.	245.	3919.	306.	605.	143.	60.00
0.43	3.11	3.95	2.53	0.030	0.030	0.030	0.000	55.00	1749.30
0.000298	95.	95.	95.	1	0	0	0.00	503.71	2253.01

*SECNO 397.250

397.25	8.63	68.63	0.00	0.00	68.93	0.30	0.02	0.02	130.00
17000.	0.	17000.	0.	0.	3863.	0.	611.	144.	66.00
0.43	0.00	4.40	0.01	0.000	0.020	0.020	0.000	60.00	1719.98
0.000314	65.	65.	65.	2	0	0	0.00	630.04	2350.02

*SECNO 398.150

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

398.15	8.02	68.02	0.00	0.00	69.29	1.27	0.06	0.29	60.00
17000.	58.	16480.	462.	15.	1805.	79.	617.	145.	62.00
0.44	3.99	9.13	5.84	0.030	0.030	0.030	0.000	60.00	1806.36
0.003306	85.	85.	85.	3	0	0	0.00	343.14	2181.32

*SECNO 399.450

3301 HV CHANGED MORE THAN HVINS

399.45	8.91	68.91	0.00	0.00	69.62	0.71	0.27	0.06	60.00
17000.	61.	16696.	243.	20.	2452.	100.	623.	146.	67.00
0.44	3.09	6.81	2.42	0.030	0.030	0.030	0.000	60.00	1770.55
0.001550	125.	125.	125.	3	0	0	0.00	453.34	2223.88

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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 401.000
  401.00     9.50     69.50      0.00      0.00     69.78      0.28      0.12      0.04     60.00
  17000.     441.     16434.     125.      173.     3834.      71.       636.      148.      65.00
    0.45     2.55      4.29      1.77     0.030     0.030     0.030     0.000     60.00   1723.74
0.000437     165.      165.      165.        2         0         0      0.00    537.78   2261.52


*SECNO 402.500
  402.50     9.52     69.52      0.00      0.00     69.88      0.36      0.07      0.02     62.00
  17000.    1478.     15522.      0.       387.     3173.       0.       649.      150.      70.00
    0.46     3.82      4.89      0.00     0.030     0.030     0.000     0.000     60.00   1747.40
0.000561     150.      150.      150.        2         0         0      0.00    444.68   2192.07


*SECNO 404.200

3301 HV CHANGED MORE THAN HVINS

  404.20     9.11     69.11      0.00      0.00     70.33      1.22      0.19      0.26     62.00
  17000.    5314.     11581.     105.      607.     1291.      24.       660.      152.      66.00
    0.47     8.75      8.97      4.47     0.030     0.030     0.030     0.000     60.00   1755.81
0.003518     170.      170.      170.        3         0         0      0.00    388.63   2144.44


*SECNO 405.350

3265 DIVIDED FLOW

  405.35     9.68     69.68      0.00      0.00     70.74      1.06      0.39      0.02     60.00
  17000.    6823.     9584.      593.      810.     1163.      99.       665.      153.      65.00
    0.47     8.43      8.24      5.98     0.030     0.030     0.030     0.000     60.00   1733.10
0.003260     115.      115.      115.        2         0         0      0.00    441.40   2204.22


*SECNO 406.700

3301 HV CHANGED MORE THAN HVINS

  406.70    10.52     70.52      0.00      0.00     70.95      0.43      0.15      0.06     65.00
  17000.     220.     15005.     1775.      92.     2729.      559.      673.      154.      60.00
    0.48     2.41      5.50      3.17     0.030     0.030     0.030     0.000     60.00   1741.86
0.000621     125.      125.      125.        2         0         0      0.00    470.76   2212.62
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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 408.000
  408.00    10.80     70.80     0.00      0.00      71.03     0.23      0.06      0.02      64.00
  17000.    1911.     14394.    695.      696.      3556.     262.      686.      156.      60.00
    0.49     2.74      4.05     2.65     0.030     0.030     0.030     0.000     60.00    1676.83
 0.000287    140.      140.     140.        0         0         0      0.00    507.14    2183.96


*SECNO 409.250
  409.25     7.61     70.61     0.00      0.00      71.19     0.58      0.06      0.10      69.00
  17000.      27.     16551.    421.      20.       2689.     109.      695.      157.      63.00
    0.49     1.41      6.16     3.88     0.030     0.030     0.030     0.000     63.00    1745.81
 0.001080    115.      115.     115.        2         0         0      0.00    417.74    2163.55


*SECNO 410.500

3301 HV CHANGED MORE THAN HVINS

  410.50     5.35     70.35     0.00      0.00      71.64     1.29      0.24      0.21      67.00
  17000.     125.     16351.    524.      28.       1774.     86.       702.      158.      65.00
    0.50     4.44      9.22     6.08     0.030     0.030     0.030     0.000     65.00    1753.21
 0.004127    125.      125.     125.        2         0         0      0.00    408.95    2162.15


*SECNO 411.250
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  411.25     4.17     71.17     71.17     0.00      72.87     1.70      0.42      0.12      68.00
  17000.     149.     15389.    1462.     25.       1433.     202.      705.      159.      68.00
    0.50     5.90     10.74     7.24     0.030     0.030     0.030     0.000     67.00    1694.13
 0.007873     75.      75.      75.        20        15         0      0.00    491.44    2185.57


*SECNO 412.250

3301 HV CHANGED MORE THAN HVINS

  412.25     5.70     72.70     0.00      0.00      73.30     0.59      0.32      0.11      67.00
  17000.     461.     16070.    469.      99.       2566.     102.      710.      160.      67.00
    0.50     4.67      6.26     4.59     0.030     0.030     0.030     0.000     67.00    1659.19
 0.001570    105.      105.     105.        3         0         0      0.00    514.31    2173.51
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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 413.250
  413.25     6.12     73.12      0.00      0.00     73.43      0.31      0.10      0.03     67.00
  17000.     472.    16230.      298.      140.     3611.       94.      718.      161.     67.00
    0.51     3.37      4.49      3.19     0.030     0.030     0.030     0.000     67.00   1539.39
0.000735     100.      100.      100.         2         0         0      0.00    661.21   2200.61


*SECNO 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=     550.100
  414.55     6.17     73.17      0.00     75.27     73.56      0.39      0.10      0.02     67.00
  17000.       0.    17000.        0.        0.     3391.        0.      728.      163. 100000.00
    0.52     0.12      5.01      0.00     0.030     0.030     0.000     0.000     67.00   1679.95
0.000920     125.      125.      125.         2         0         0      0.00    550.05   2230.00


*SECNO 416.050
  416.05     6.31     73.31      0.00     75.45     73.70      0.39      0.14      0.00     67.00
  17000.     303.    16304.      393.       80.     3213.      124.      740.      165.     67.00
    0.52     3.80      5.07      3.17     0.030     0.030     0.030     0.000     67.00   1679.96
0.000902     155.      155.      155.         1         0         0      0.00    564.41   2244.37


*SECNO 417.300
  417.30     6.39     73.39      0.00     75.54     73.82      0.43      0.11      0.01     67.00
  17000.     780.    15949.      271.      209.     2972.       82.      750.      167.     67.00
    0.53     3.73      5.37      3.31     0.030     0.030     0.030     0.000     67.00   1656.66
0.000990     120.      120.      120.         2         0         0      0.00    558.90   2215.56


*SECNO 418.450
  418.45     6.39     73.39      0.00     75.46     74.03      0.63      0.14      0.06     70.00
  17000.      88.    16332.      580.       33.     2528.      142.      758.      168.     67.00
    0.54     2.68      6.46      4.10     0.030     0.030     0.030     0.000     67.00   1735.61
0.001471     120.      120.      120.         2         0         0      0.00    463.66   2199.27


*SECNO 419.550

3265 DIVIDED FLOW

  419.55     6.64     73.64      0.00     75.86     74.19      0.55      0.16      0.01     67.00
  17000.    2047.    14531.      423.      453.     2358.      110.      765.      169.     67.00
    0.54     4.51      6.16      3.83     0.030     0.030     0.030     0.000     67.00   1675.43
0.001239     115.      115.      115.         2         0         0      0.00    516.71   2208.21
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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 420.650
   420.65     6.68     73.68      0.00     75.84     74.40      0.72      0.16      0.05     67.00
   17000.    1791.    13163.     2047.      298.     1836.      418.      772.      170.     67.00
     0.55     6.00      7.17      4.90     0.030     0.030     0.030     0.000     67.00   1745.29
 0.001665    110.      110.      110.         2         0         0      0.00    461.49   2206.78


*SECNO 422.300
   422.30     6.81     73.81      0.00     75.82     74.77      0.97      0.30      0.07     68.00
   17000.     225.    15092.     1683.       50.     1865.      267.      781.      172.     67.00
     0.55     4.54      8.09      6.31     0.030     0.030     0.030     0.000     67.00   1832.92
 0.002181    180.      160.      140.         2         0         0      0.00    370.63   2203.55


*SECNO 423.650

3301 HV CHANGED MORE THAN HVINS

   423.65     4.50     73.50     73.47     75.49     75.65      2.15      0.52      0.35     69.00
   17000.     219.    16552.      229.       30.     1396.       32.      787.      173.     69.00
     0.55     7.21     11.86      7.23     0.030     0.030     0.030     0.000     69.00   1826.49
 0.007702    170.      140.      120.         6        14         0      0.00    337.58   2164.07
```

THIS RUN EXECUTED: Wed 21-JAN-1987 09:05:07.30

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**************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
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T1      INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2      EA # 1192.2:  SCOTTSDALE LAKES GOLF COURSE:  USCE'S LOW "n" VALUES
T3      DESIGN CONDITIONS(5B )              (1192D5B)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0.        5.        0.        0.  0.000000     -1.00       0.0        0.     0.000     0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      4.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
```

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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


*PROF 4

CCHV=   0.100 CEHV=   0.300
*SECNO 314.630
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
3280 CROSS SECTION    314.63 EXTENDED      0.00 FEET

3720 CRITICAL DEPTH ASSUMED
   314.63     5.80     50.00     50.00      0.00     50.81      0.81      0.00      0.00     44.20
   12000.    6766.     5216.       18.     1506.      540.       20.        0.        0.     45.00
     0.00     4.49      9.67      0.89     0.030     0.030     0.030     0.000     44.20   1530.00
 0.004017       0.        0.        0.         0        13         0      0.00   1250.00   2780.00


*SECNO 319.760

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

   319.76     5.22     51.52      0.00      0.00     51.73      0.22      0.87      0.06     52.30
   12000.    9536.     2311.      154.     2536.      626.       60.       31.       12.     47.00
     0.04     3.76      3.69      2.58     0.030     0.030     0.030     0.000     46.30   1676.54
 0.000933      510.      510.      510.         3         0         0      0.00    881.80   2641.36


*SECNO 326.350

3265 DIVIDED FLOW

   326.35     5.13     52.13      0.00      0.00     52.38      0.25      0.63      0.01     53.00
   12000.    9618.     2256.      126.     2355.      577.       50.       77.       25.     48.00
     0.08     4.08      3.91      2.54     0.030     0.030     0.030     0.000     47.00   1673.70
 0.001018      650.      650.      650.         3         0         0      0.00    854.01   2599.07


*SECNO 332.150

3265 DIVIDED FLOW

   332.15     5.67     52.67      0.00      0.00     52.99      0.32      0.59      0.02     56.00
   12000.   11646.      354.        0.     2544.      218.        0.      115.       36.     54.00
     0.12     4.58      1.63      0.00     0.030     0.030     0.000     0.000     47.00   1731.53
 0.001030      575.      575.      575.         1         0         0      0.00    792.83   2591.78
```

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 336.200

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

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

336.20	4.48	54.48	54.48	0.00	55.39	0.91	0.89	0.18	53.00
12000.	10136.	1852.	12.	1268.	332.	4.	135.	44.	53.00
0.13	7.99	5.58	3.42	0.030	0.030	0.030	0.000	50.00	1732.62
0.007556	405.	405.	405.	20	14	0	0.00	777.04	2569.92

*SECNO 341.600

3265 DIVIDED FLOW

3280 CROSS SECTION 341.60 EXTENDED 1.26 FEET

341.60	3.26	58.26	0.00	0.00	59.03	0.77	3.63	0.01	56.00
12000.	9467.	2522.	11.	1352.	347.	4.	156.	53.	57.00
0.15	7.00	7.27	2.80	0.030	0.030	0.030	0.000	55.00	1570.00
0.006117	535.	535.	535.	3	0	0	0.00	735.26	2441.28

*SECNO 346.950

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

346.95	5.01	60.01	0.00	0.00	60.24	0.23	1.16	0.05	57.00
12000.	9861.	2066.	73.	2617.	492.	29.	185.	63.	56.00
0.19	3.77	4.20	2.55	0.030	0.030	0.030	0.000	55.00	1427.39
0.001099	535.	535.	535.	4	0	0	0.00	917.63	2404.34

*SECNO 351.180

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

351.18	3.58	60.58	0.00	0.00	61.04	0.47	0.73	0.07	57.00
12000.	9221.	2563.	216.	1781.	393.	42.	211.	72.	57.00
0.21	5.18	6.51	5.17	0.030	0.030	0.030	0.000	57.00	1370.67
0.003161	420.	420.	420.	3	0	0	0.00	915.08	2348.59

*SECNO 356.690

3265 DIVIDED FLOW

356.69	5.78	61.78	0.00	0.00	62.03	0.25	0.96	0.02	62.00
12000.	10205.	1537.	258.	2485.	448.	102.	244.	84.	58.00
0.25	4.11	3.43	2.53	0.030	0.030	0.030	0.000	56.00	1327.77
0.001122	545.	545.	545.	2	0	0	0.00	968.88	2373.99

*SECNO 360.850

3265 DIVIDED FLOW

3280 CROSS SECTION 360.85 EXTENDED 1.11 FEET

3301 HV CHANGED MORE THAN HVINS

360.85	7.11	62.11	0.00	0.00	63.00	0.89	0.78	0.19	60.00
12000.	6855.	5062.	83.	1076.	566.	21.	267.	91.	59.00
0.27	6.37	8.95	3.99	0.030	0.030	0.030	0.000	55.00	1555.00
0.003724	415.	415.	415.	3	0	0	0.00	566.50	2243.33

*SECNO 365.100

3265 DIVIDED FLOW

3280 CROSS SECTION 365.10 EXTENDED 2.57 FEET

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

  365.10     8.57     63.57      0.00      0.00     63.92      0.35      0.87      0.05     60.00
  12000.    4728.     7176.      96.     1298.     1338.      36.      287.       98.      60.00
    0.29     3.64      5.36      2.63     0.030     0.030     0.030     0.000     55.00   1510.00
0.001327     420.      420.      420.         2         0         0      0.00    799.25   2370.42

CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

3265 DIVIDED FLOW

  367.08     8.83     63.83      0.00      0.00     64.39      0.56      0.36      0.10     65.00
  12000.    4876.     7124.       0.     1167.     1023.       0.      299.      101.      60.00
    0.30     4.18      6.96      0.02     0.030     0.030     0.030     0.000     55.00   1378.42
0.002543     200.      200.      200.         2         0         0      0.00    824.80   2370.04

*SECNO 367.180

3265 DIVIDED FLOW

  367.18     8.79     63.79      0.00      0.00     64.47      0.68      0.03      0.06     65.00
  12000.    4854.     7146.       0.     1144.      915.       0.      299.      101.      60.00
    0.30     4.24      7.81      0.03     0.030     0.025     0.030     0.000     55.00   1379.81
0.002668      10.       10.       10.         2         0         0      0.00    803.97   2370.04

*SECNO 367.980

3265 DIVIDED FLOW

3280 CROSS SECTION    367.98 EXTENDED      0.22 FEET

  367.98     9.22     64.22      0.00      0.00     64.70      0.48      0.17      0.06     65.00
  12000.    5367.     6633.       0.     1410.      999.       0.      303.      103.      60.00
    0.31     3.81      6.64      0.02     0.030     0.025     0.030     0.000     55.00   1372.00
0.001744      80.       80.       80.         3         0         0      0.00    828.34   2370.05

*SECNO 368.220

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
368.22	9.32	64.32	0.00	0.00	64.77	0.45	0.06	0.01	56.00
12000.	1789.	9650.	561.	746.	1658.	137.	307.	105.	55.00
0.31	2.40	5.82	4.11	0.030	0.030	0.030	0.000	55.00	1686.53
0.000715	120.	30.	30.	2	0	0	0.00	587.74	2365.04

CCHV= 0.100 CEHV= 0.300
*SECNO 369.300

3265 DIVIDED FLOW

369.30	9.52	64.52	0.00	0.00	64.87	0.35	0.08	0.01	55.00
12000.	3560.	8234.	206.	1122.	1554.	55.	313.	106.	58.00
0.32	3.17	5.30	3.73	0.030	0.030	0.030	0.000	55.00	1563.50
0.000978	110.	100.	100.	2	0	0	0.00	742.62	2370.05

*SECNO 370.210

3265 DIVIDED FLOW

370.21	9.56	64.56	0.00	0.00	65.04	0.48	0.13	0.04	55.00
12000.	4750.	7060.	189.	1043.	1146.	46.	319.	108.	60.00
0.32	4.56	6.16	4.13	0.030	0.030	0.030	0.000	55.00	1597.21
0.001830	100.	100.	100.	2	0	0	0.00	700.23	2355.02

*SECNO 372.000

3265 DIVIDED FLOW

372.00	9.63	64.63	0.00	0.00	65.47	0.84	0.32	0.11	55.00
12000.	1761.	9645.	594.	434.	1217.	123.	328.	111.	57.00
0.33	4.06	7.92	4.83	0.030	0.030	0.030	0.000	55.00	1642.38
0.001651	200.	180.	180.	2	0	0	0.00	577.94	2287.27

*SECNO 374.350

374.35	10.16	65.16	0.00	0.00	65.77	0.61	0.28	0.02	55.00
12000.	2032.	9735.	232.	473.	1467.	63.	336.	113.	59.00
0.34	4.30	6.64	3.68	0.030	0.030	0.030	0.000	55.00	1805.01
0.001261	205.	190.	190.	2	0	0	0.00	460.65	2265.66

```
  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 375.200
  375.20    10.05     65.05     0.00      0.00      66.00     0.96      0.13      0.10      55.00
  12000.    1247.     10753.    0.        271.      1321.     0.        340.      114.      68.00
    0.34    4.61      8.14      0.00      0.030     0.030     0.000     0.000     55.00   1820.01
 0.001961   85.       85.       85.       2         0         0         0.00    408.92   2228.93


*SECNO 377.050

3301 HV CHANGED MORE THAN HVINS

  377.05    10.95     65.95     0.00      0.00      66.17     0.21      0.09      0.07      55.00
  12000.    841.      10130.    1029.     348.      2629.     371.      349.      115.      55.00
    0.35    2.42      3.85      2.77      0.030     0.030     0.030     0.000     55.00   1907.03
 0.000249   150.      165.      150.      2         0         0         0.00    395.91   2302.94


*SECNO 379.380
  379.38    10.83     65.83     0.00      0.00      66.37     0.55      0.11      0.10      55.00
  12000.    3161.     8355.     484.      575.      1354.     117.      363.      117.      58.00
    0.36    5.49      6.17      4.13      0.030     0.030     0.030     0.000     55.00   1925.85
 0.001177   230.      230.      230.      2         0         0         0.00    339.08   2264.93


*SECNO 380.850
  380.85    11.22     66.22     0.00      0.00      66.49     0.26      0.09      0.03      55.00
  12000.    4537.     7228.     235.      1155.     1688.     103.      371.      118.      57.00
    0.37    3.93      4.28      2.27      0.030     0.030     0.030     0.000     55.00   1955.46
 0.000350   160.      140.      140.      2         0         0         0.00    375.29   2330.74


*SECNO 383.100
  383.10    11.38     66.38     0.00      0.00      66.57     0.19      0.08      0.01      55.00
  12000.    6625.     4497.     879.      1818.     1280.     324.      388.      121.      60.00
    0.39    3.64      3.51      2.71      0.030     0.030     0.030     0.000     55.00   1877.04
 0.000358   230.      220.      220.      1         0         0         0.00    487.19   2364.24


*SECNO 385.000
  385.00    11.43     66.43     0.00      0.00      66.64     0.21      0.07      0.00      55.00
  12000.    2596.     9259.     144.      875.      2397.     69.       401.      123.      60.00
    0.40    2.97      3.86      2.09      0.030     0.030     0.030     0.000     55.00   1822.11
 0.000398   185.      170.      110.      0         0         0         0.00    539.34   2361.45
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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 386.750

3265 DIVIDED FLOW

  386.75    11.49     66.49      0.00      0.00     66.73      0.24      0.08      0.01     59.00
  12000.    3036.     8621.      344.      805.     2162.      128.      414.      125.     59.00
    0.42     3.77      3.99      2.69     0.030     0.030     0.030     0.000     55.00   1790.43
0.000523     170.      170.      160.         0         0         0      0.00    515.12   2379.08


*SECNO 388.650
  388.65    11.67     66.67      0.00      0.00     66.81      0.14      0.07      0.01     55.00
  12000.    3936.     7804.      260.     1428.     2453.      131.      429.      127.     59.00
    0.43     2.76      3.18      1.97     0.030     0.030     0.030     0.000     55.00   1774.82
0.000274     190.      190.      190.         2         0         0      0.00    609.47   2384.29


*SECNO 391.350
  391.35    11.73     66.73      0.00      0.00     66.85      0.12      0.04      0.00     59.00
  12000.     755.    11035.      209.      427.     3857.      126.      445.      129.     59.00
    0.45     1.77      2.86      1.66     0.030     0.030     0.030     0.000     55.00   1773.63
0.000193     160.      160.      160.         0         0         0      0.00    603.92   2377.55


*SECNO 392.210
  392.21    11.75     66.75      0.00      0.00     66.89      0.14      0.04      0.01     55.00
  12000.    1647.    10065.      288.      554.     3332.      199.      463.      132.     59.00
    0.47     2.97      3.02      1.45     0.030     0.030     0.030     0.000     55.00   1741.95
0.000225     185.      185.      185.         1         0         0      0.00    603.93   2345.88


*SECNO 394.000

3301 HV CHANGED MORE THAN HVINS

  394.00    11.41     66.41      0.00      0.00     67.17      0.76      0.09      0.19     55.00
  12000.    2744.     8931.      325.      373.     1276.       99.      474.      134.     63.00
    0.47     7.35      7.00      3.29     0.030     0.030     0.030     0.000     55.00   1762.38
0.002167     175.      175.      175.         2         0         0      0.00    365.58   2127.96


*SECNO 395.550
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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

395.55	12.13	67.13	0.00	0.00	67.34	0.21	0.12	0.06	55.00
12000.	230.	11338.	432.	140.	3008.	182.	484.	135.	59.00
0.49	1.65	3.77	2.38	0.030	0.030	0.030	0.000	55.00	1752.02
0.000362	160.	160.	160.	2	0	0	0.00	477.69	2229.71

*SECNO 396.550

396.55	12.21	67.21	0.00	0.00	67.37	0.16	0.03	0.00	55.00
12000.	500.	11083.	417.	188.	3343.	210.	492.	137.	60.00
0.49	2.65	3.32	1.99	0.030	0.030	0.030	0.000	55.00	1753.56
0.000260	95.	95.	95.	2	0	0	0.00	495.07	2248.63

*SECNO 397.250

397.25	7.16	67.16	0.00	0.00	67.42	0.26	0.02	0.03	130.00
12000.	0.	12000.	0.	0.	2938.	0.	497.	137.	66.00
0.50	0.00	4.08	0.01	0.000	0.020	0.000	0.000	60.00	1719.99
0.000389	65.	65.	65.	2	0	0	0.00	630.02	2350.01

*SECNO 398.150

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

398.15	6.66	66.66	0.00	0.00	67.75	1.09	0.08	0.25	60.00
12000.	38.	11714.	248.	10.	1390.	48.	501.	138.	62.00
0.50	3.75	8.43	5.23	0.030	0.030	0.030	0.000	60.00	1806.97
0.003732	85.	85.	85.	3	0	0	0.00	321.69	2175.39

*SECNO 399.450

399.45	7.51	67.51	0.00	0.00	68.11	0.59	0.31	0.05	60.00
12000.	42.	11951.	8.	14.	1929.	9.	506.	139.	67.00
0.51	2.94	6.20	0.84	0.030	0.030	0.030	0.000	60.00	1771.24
0.001768	125.	125.	125.	3	0	0	0.00	414.51	2185.75

```
  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 401.000
  401.00     8.06     68.06      0.00      0.00     68.27      0.21      0.12      0.04     60.00
  12000.     213.     11744.      44.      102.     3177.      33.      516.      141.      65.00
    0.52     2.09      3.70      1.34     0.030     0.030     0.030     0.000     60.00   1727.35
0.000418     165.      165.      165.        2         0         0      0.00    524.07   2251.42


*SECNO 402.500
  402.50     8.09     68.09      0.00      0.00     68.35      0.26      0.07      0.02     62.00
  12000.     918.     11082.      0.       288.     2648.      0.       526.      143.      70.00
    0.53     3.18      4.19      0.00     0.030     0.030     0.000     0.000     60.00   1754.55
0.000507     150.      150.      150.        2         0         0      0.00    428.78   2183.33


*SECNO 404.200

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

  404.20     7.66     67.66      0.00      0.00     68.81      1.15      0.19      0.27     62.00
  12000.    3393.     8588.      19.       421.      972.      7.       535.      144.      66.00
    0.53     8.07      8.83      2.80     0.030     0.030     0.030     0.000     60.00   1767.10
0.004215     170.      170.      170.        3         0         0      0.00    342.77   2138.29


*SECNO 405.350

3265 DIVIDED FLOW

  405.35     8.27     68.27      0.00      0.00     69.32      1.05      0.50      0.01     60.00
  12000.    4671.     7075.      254.      568.      851.      53.      539.      145.      65.00
    0.54     8.22      8.32      4.78     0.030     0.030     0.030     0.000     60.00   1747.32
0.004399     115.      115.      115.        3         0         0      0.00    401.93   2200.67


*SECNO 406.700

3301 HV CHANGED MORE THAN HVINS

  406.70     9.22     69.22      0.00      0.00     69.54      0.32      0.15      0.07     65.00
  12000.     101.     10993.      906.      53.      2352.      371.      545.      147.      60.00
    0.55     1.89      4.67      2.44     0.030     0.030     0.030     0.000     60.00   1749.67
0.000547     125.      125.      125.        2         0         0      0.00    456.44   2206.11
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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 408.000
   408.00     9.44     69.44      0.00      0.00     69.60      0.16      0.05      0.02     64.00
   12000.     1143.    10433.     424.      534.     3103.      201.      555.      148.      60.00
     0.56     2.14      3.36      2.11     0.030     0.030     0.030     0.000     60.00   1682.24
 0.000237     140.      140.      140.        2         0         0      0.00    495.25   2177.48


*SECNO 409.250
   409.25     6.30     69.30      0.00      0.00     69.73      0.43      0.05      0.08     69.00
   12000.       0.     11749.     251.        1.     2210.       74.      563.      149.      63.00
     0.56     0.45      5.32      3.37     0.030     0.030     0.030     0.000     63.00   1765.48
 0.001046     115.      115.      115.        2         0         0      0.00    393.15   2158.63


*SECNO 410.500

3301 HV CHANGED MORE THAN HVINS

   410.50     3.97     68.97      0.00      0.00     70.25      1.28      0.26      0.25     67.00
   12000.       38.    11670.     292.       10.     1276.       47.      569.      150.      65.00
     0.57     3.85      9.15      6.16     0.030     0.030     0.030     0.000     65.00   1760.13
 0.006311     125.      125.      125.        3         0         0      0.00    393.72   2153.85


*SECNO 411.250
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   411.25     3.47     70.47     70.47      0.00     71.82      1.35      0.54      0.02     68.00
   12000.       77.    11158.     765.       15.     1167.      133.      571.      151.      68.00
     0.57     5.09      9.56      5.76     0.030     0.030     0.030     0.000     67.00   1697.67
 0.008196      75.       75.       75.       20        11         0      0.00    481.52   2179.19


*SECNO 412.250

3301 HV CHANGED MORE THAN HVINS

   412.25     4.78     71.78      0.00      0.00     72.21      0.43      0.30      0.09     67.00
   12000.     280.    11436.     283.       72.     2154.       74.      575.      152.      67.00
     0.58     3.89      5.31      3.84     0.030     0.030     0.030     0.000     67.00   1662.85
 0.001424     105.      105.      105.        2         0         0      0.00    506.08   2168.93
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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 413.250
  413.25     5.10     72.10      0.00      0.00     72.33      0.22      0.10      0.02     67.00
  12000.     287.    11536.      177.      101.     3011.      65.      582.      154.      67.00
    0.58     2.84      3.83      2.71     0.030     0.030     0.030     0.000     67.00   1544.48
0.000681     100.      100.      100.         2         0         0      0.00    651.03   2195.52


*SECNO 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=     550.100
  414.55     5.16     72.16      0.00     75.27     72.44      0.28      0.09      0.02     67.00
  12000.       0.    12000.        0.        0.     2837.       0.      590.      155. 100000.00
    0.59     0.10      4.23      0.00     0.030     0.030     0.000     0.000     67.00   1679.96
0.000828     125.      125.      125.         2         0         0      0.00    550.04   2230.00


*SECNO 416.050
  416.05     5.28     72.28      0.00     75.45     72.57      0.28      0.13      0.00     67.00
  12000.     209.    11558.      233.       64.     2691.      87.      600.      157.      67.00
    0.60     3.25      4.30      2.68     0.030     0.030     0.030     0.000     67.00   1679.97
0.000819     155.      155.      155.         0         0         0      0.00    558.00   2237.97


*SECNO 417.300
  417.30     5.36     72.36      0.00     75.54     72.68      0.31      0.10      0.01     67.00
  12000.     441.    11397.      163.      143.     2499.      58.      608.      159.      67.00
    0.61     3.09      4.56      2.82     0.030     0.030     0.030     0.000     67.00   1662.76
0.000901     120.      120.      120.         1         0         0      0.00    548.74   2211.50


*SECNO 418.450
  418.45     5.40     72.40      0.00     75.46     72.85      0.45      0.13      0.04     70.00
  12000.      33.    11618.      349.       16.     2129.     101.      615.      160.      67.00
    0.62     2.01      5.46      3.46     0.030     0.030     0.030     0.000     67.00   1741.31
0.001320     120.      120.      120.         2         0         0      0.00    451.05   2192.36


*SECNO 419.550

3265 DIVIDED FLOW

  419.55     5.59     72.59      0.00     75.86     73.00      0.41      0.14      0.00     67.00
  12000.    1265.    10479.      256.      327.     1984.      78.      621.      161.      67.00
    0.62     3.87      5.28      3.28     0.030     0.030     0.030     0.000     67.00   1679.64
0.001146     115.      115.      115.         2         0         0      0.00    494.78   2202.95
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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 420.650
  420.65     5.64     72.64      0.00     75.84     73.18      0.54      0.15      0.04     67.00
  12000.    1200.     9608.     1192.      233.     1551.      297.      627.      163.     67.00
    0.63     5.14      6.19      4.02     0.030     0.030     0.030     0.000     67.00   1749.44
0.001558     110.      110.      110.         2         0         0      0.00    446.96   2196.40


*SECNO 422.300
  422.30     5.81     72.81      0.00     75.82     73.50      0.69      0.28      0.05     68.00
  12000.     128.    10798.     1074.       34.     1581.      202.      634.      164.     67.00
    0.63     3.77      6.83      5.32     0.030     0.030     0.030     0.000     67.00   1835.85
0.001936     180.      160.      140.         2         0         0      0.00    360.22   2196.08


*SECNO 423.650

3301 HV CHANGED MORE THAN HVINS

  423.65     3.59     72.59     72.55     75.49     74.29      1.70      0.49      0.30     69.00
  12000.     124.    11746.      130.       19.     1115.       20.      638.      165.     69.00
    0.64     6.40     10.53      6.42     0.030     0.030     0.030     0.000     69.00   1829.21
0.008197     170.      140.      120.         6        14         0      0.00    332.04   2161.24
```

THIS RUN EXECUTED: Wed 21-JAN-1987 09:06:58.91

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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T1      INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2      EA # 1192.2:  SCOTTSDALE LAKES GOLF COURSE:  USCE'S LOW "n" VALUES
T3      DESIGN CONDITIONS(5B )              (1192D5B)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0.       6.       0.        0.  0.000000     -1.00      0.0       0.     0.000     0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     5.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
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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


*PROF 5

CCHV=   0.100 CEHV=   0.300
*SECNO 314.630
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3265 DIVIDED FLOW

3720 CRITICAL DEPTH ASSUMED
   314.63     4.43     48.63     48.63      0.00     49.24      0.60      0.00      0.00     44.20
    3500.     719.     2781.       0.      346.      403.        0.        0.        0.     45.00
     0.00     2.08      6.90      0.31     0.030     0.030     0.030     0.000     44.20   1822.39
 0.003023       0.        0.        0.         0        14         0      0.00    715.00   2650.08


*SECNO 319.760

3470 ENCROACHMENT STATIONS=    2440.0    2650.0  TYPE=     1  TARGET=     210.000
   319.76     4.12     50.42      0.00     53.51     51.23      0.81      1.94      0.06     52.30
    3500.       0.     3332.      168.        0.      455.       34.        7.        5.     47.00
     0.02     0.00      7.32      4.92     0.000     0.030     0.030     0.000     46.30   2466.54
 0.004915     510.      510.      510.         2         0         0      0.00    168.44   2634.98


*SECNO 326.350

3470 ENCROACHMENT STATIONS=    2420.0    2610.0  TYPE=     1  TARGET=     190.000
   326.35     5.15     52.55      0.00     54.40     52.95      0.40      1.68      0.04     53.00
    3500.       0.     3296.      204.        0.      640.       60.       16.        8.     48.00
     0.06     0.00      5.15      3.38     0.000     0.030     0.030     0.000     47.40   2423.62
 0.001584     650.      650.      650.         2         0         0      0.00    177.91   2601.53


*SECNO 332.150

3470 ENCROACHMENT STATIONS=    2365.0    2625.0  TYPE=     1  TARGET=     260.000
   332.15     2.97     53.97      0.00     55.09     54.72      0.75      1.67      0.11     56.00
    3500.       0.     3500.        0.        0.      504.        0.       24.       10.     54.00
     0.08     0.00      6.95      0.00     0.000     0.030     0.000     0.000     51.00   2375.10
 0.006909     575.      575.      575.         2         0         0      0.00    229.69   2604.79
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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 336.200

3470 ENCROACHMENT STATIONS=    2320.0    2585.0  TYPE=     1  TARGET=     265.000
   336.20     2.95     55.95     0.00     56.02     56.34     0.40      1.59      0.04     53.00
    3500.      69.     3386.      45.       22.      663.      14.       30.       13.     53.00
     0.10     3.18      5.11     3.13     0.030     0.030    0.030     0.000     53.00   2325.27
 0.002517     405.      405.     405.         2         0        0      0.00    249.55   2574.82


*SECNO 341.600

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    2275.0    2445.0  TYPE=     1  TARGET=     170.000
   341.60     3.41     58.41    58.41     60.06     59.66     1.25      2.29      0.26     56.00
    3500.     128.     3354.      18.       24.      368.       5.       36.       15.     57.00
     0.12     5.27      9.11     3.65     0.030     0.030    0.030     0.000     55.00   2279.90
 0.008889     535.      535.     535.         5         8        0      0.00    162.15   2442.06


*SECNO 346.950

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    2230.0    2415.0  TYPE=     1  TARGET=     185.000
   346.95     5.88     60.88     0.00     62.29     61.32     0.45      1.58      0.08     57.00
    3500.      90.     3268.     142.       35.      595.      42.       43.       17.     56.00
     0.15     2.56      5.49     3.34     0.030     0.030    0.030     0.000     55.00   2233.71
 0.001455     535.      535.     535.         4         0        0      0.00    173.71   2407.42


*SECNO 351.180

3470 ENCROACHMENT STATIONS=    2190.0    2360.0  TYPE=     1  TARGET=     170.000
   351.18     4.53     61.53     0.00     62.84     62.05     0.52      0.71      0.02     57.00
    3500.     224.     2989.     287.       61.      498.      61.       49.       19.     57.00
     0.17     3.68      6.01     4.71     0.030     0.030    0.030     0.000     57.00   2190.00
 0.001964     420.      420.     420.         2         0        0      0.00    161.75   2351.75
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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 356.690

3470 ENCROACHMENT STATIONS=    2165.0    2420.0  TYPE=     1  TARGET=     255.000
   356.69     5.01     62.71     0.00     64.05     63.06     0.35      0.99      0.02     62.00
    3500.      0.      2931.     569.      0.       592.      158.      58.       21.      58.00
     0.20     0.00      4.95     3.60     0.000     0.030     0.030     0.000    57.70  2165.00
 0.001689     545.      545.     545.       2         0         0      0.00    222.24  2387.24


*SECNO 360.850

3470 ENCROACHMENT STATIONS=    2100.0    2260.0  TYPE=     1  TARGET=     160.000
   360.85     8.19     63.19     0.00     64.05     63.55     0.36      0.49      0.00     60.00
    3500.      69.      3344.     88.      34.       684.      38.       65.       23.      59.00
     0.22     2.03      4.89     2.34     0.030     0.030     0.030     0.000    55.00  2100.00
 0.000861     415.      415.     415.       2         0         0      0.00    147.95  2247.95


*SECNO 365.100

3470 ENCROACHMENT STATIONS=    2060.0    2390.0  TYPE=     1  TARGET=     330.000
   365.10     8.67     63.67     0.00     66.37     63.76     0.09      0.19      0.03     60.00
    3500.      88.      3365.     47.      65.       1363.     38.       76.       25.      60.00
     0.27     1.35      2.47     1.22     0.030     0.030     0.030     0.000    55.00  2060.00
 0.000274     420.      420.     420.       2         0         0      0.00    310.97  2370.97


CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
   367.08     8.70     63.70     0.00     66.65     63.89     0.19      0.08      0.05100000.00
    3500.      0.      3500.      0.       0.       996.      0.        81.       26.      60.00
     0.29     0.00      3.52     0.01     0.000     0.030     0.030     0.000    55.00  2155.05
 0.000672     200.      200.     200.       2         0         0      0.00    214.98  2370.04


*SECNO 367.180

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
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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


  367.18    8.69    63.69     0.00    66.64    63.92     0.24     0.01     0.02100000.00
   3500.      0.    3500.      0.       0.     893.      0.      82.      27.     60.00
    0.29    0.00     3.92     0.01    0.000    0.025    0.030    0.000    55.00  2155.05
0.000690     10.      10.      10.        2        0        0     0.00   196.99  2370.04


*SECNO 367.980

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
  367.98    8.75    63.75     0.00    66.87    63.98     0.23     0.05     0.00100000.00
   3500.      0.    3500.      0.       0.     904.      0.      83.      27.     60.00
    0.29    0.00     3.87     0.01    0.000    0.025    0.030    0.000    55.00  2155.05
0.000664     80.      80.      80.        0        0        0     0.00   196.99  2370.04


*SECNO 368.220

3470 ENCROACHMENT STATIONS=    2120.0    2365.1  TYPE=     1  TARGET=     245.100
  368.22    8.98    63.98     0.00    66.79    64.04     0.06     0.01     0.05    56.00
   3500.    181.    3138.     180.     159.    1597.     130.      84.      27.    55.00
    0.30    1.14     1.97     1.39    0.030    0.030    0.030    0.000    55.00  2125.09
0.000086    120.      30.      30.        2        0        0     0.00   239.95  2365.04


CCHV=   0.100 CEHV=   0.300
*SECNO 369.300

3470 ENCROACHMENT STATIONS=    2055.0    2370.1  TYPE=     1  TARGET=     315.100
  369.30    8.99    63.99     0.00    67.36    64.05     0.07     0.01     0.00    55.00
   3500.    412.    3013.      76.     213.    1424.      50.      88.      28.    58.00
    0.31    1.93     2.12     1.51    0.030    0.030    0.030    0.000    55.00  2062.60
0.000175    110.     100.     100.        2        0        0     0.00   307.44  2370.04


*SECNO 370.210

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2050.0    2355.1  TYPE=     1  TARGET=     305.100
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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


   370.21     8.98     63.98      0.00     67.39     64.09      0.11      0.02      0.01     55.00
    3500.     763.     2676.      61.      261.      1013.      37.       92.       28.      60.00
     0.32     2.92      2.64     1.63     0.030     0.030     0.030     0.000     55.00   2055.10
 0.000361     100.      100.     100.        2         0         0      0.00    284.56   2355.01


*SECNO 372.000

3470 ENCROACHMENT STATIONS=    2030.0    2340.0  TYPE=     1  TARGET=     310.010
   372.00     9.05     64.05      0.00     67.26     64.14      0.09      0.05      0.00     55.00
    3500.     426.     2910.     165.      227.      1126.     105.       98.       29.      57.00
     0.34     1.88      2.58     1.57     0.030     0.030     0.030     0.000     55.00   2049.24
 0.000195     200.      180.     180.        1         0         0      0.00    235.54   2284.78


*SECNO 374.350

3470 ENCROACHMENT STATIONS=    1975.0    2350.0  TYPE=     1  TARGET=     375.000
   374.35     9.10     64.10      0.00     67.66     64.18      0.08      0.04      0.00     55.00
    3500.     539.     2908.      54.      290.      1255.      43.       104.      31.      59.00
     0.37     1.86      2.32     1.24     0.030     0.030     0.030     0.000     55.00   1981.29
 0.000189     205.      190.     190.        0         0         0      0.00    280.71   2262.00


*SECNO 375.200

3470 ENCROACHMENT STATIONS=    1990.0    2330.0  TYPE=     1  TARGET=     340.000
   375.20     9.09     64.09      0.00     67.18     64.21      0.12      0.02      0.01     55.00
    3500.     314.     3186.       0.      145.      1147.       0.       107.      31.      68.00
     0.37     2.17      2.78     0.00     0.030     0.030     0.000     0.000     55.00   2013.17
 0.000268      85.       85.      85.        2         0         0      0.00    212.18   2225.35


*SECNO 377.050
   377.05     9.21     64.21      0.00     69.57     64.23      0.03      0.01      0.01     55.00
    3500.     200.     3045.     255.      233.      2209.     272.      115.      32.      55.00
     0.41     0.86      1.38     0.94     0.030     0.030     0.030     0.000     55.00   1954.37
 0.000040     150.      165.     150.        2         0         0      0.00    346.24   2300.61


*SECNO 379.380
   379.38     9.18     64.18      0.00     69.36     64.27      0.09      0.02      0.02     55.00
    3500.     865.     2513.     122.      394.      1033.     73.       126.      34.      58.00
     0.44     2.20      2.43     1.67     0.030     0.030     0.030     0.000     55.00   1932.72
 0.000262     230.      230.     230.        2         0         0      0.00    325.92   2258.64
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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 380.850
   380.85     9.25     64.25      0.00     70.05     64.29      0.04      0.02      0.00     55.00
    3500.    1299.     2149.      52.      881.     1353.      58.      132.       35.     57.00
     0.46     1.47      1.59      0.88     0.030     0.030     0.030     0.000     55.00   1966.12
 0.000065     160.      140.      140.         2         0         0      0.00    320.00   2286.12


*SECNO 383.100

3265 DIVIDED FLOW

   383.10     9.27     64.27      0.00     70.40     64.31      0.03      0.02      0.00     55.00
    3500.    1917.     1402.     181.     1314.      926.     186.      144.       37.     60.00
     0.51     1.46      1.51      0.98     0.030     0.030     0.030     0.000     55.00   1884.06
 0.000085     230.      220.      220.         1         0         0      0.00    449.42   2356.72


*SECNO 385.000
   385.00     9.29     64.29      0.00     70.49     64.33      0.04      0.02      0.00     55.00
    3500.     614.     2860.      26.      478.     1731.      31.      154.       39.     60.00
     0.54     1.28      1.65      0.85     0.030     0.030     0.030     0.000     55.00   1886.24
 0.000112     185.      170.      110.         0         0         0      0.00    468.04   2354.29


*SECNO 386.750

3265 DIVIDED FLOW

   386.75     9.30     64.30      0.00     70.58     64.35      0.05      0.02      0.00     59.00
    3500.     854.     2571.      75.      495.     1459.      64.      162.       41.     59.00
     0.56     1.73      1.76      1.17     0.030     0.030     0.030     0.000     55.00   1799.57
 0.000158     170.      170.      160.         0         0         0      0.00    456.13   2369.11


*SECNO 388.650
   388.65     9.35     64.35      0.00     70.83     64.38      0.03      0.02      0.00     55.00
    3500.    1047.     2398.      56.      864.     1708.      64.      172.       43.     59.00
     0.60     1.21      1.40      0.87     0.030     0.030     0.030     0.000     55.00   1803.26
 0.000086     190.      190.      190.         1         0         0      0.00    570.62   2373.88


*SECNO 391.350
   391.35     9.36     64.36      0.00     70.91     64.39      0.02      0.01      0.00     59.00
    3500.     108.     3351.      41.      164.     2782.      61.      182.       45.     59.00
     0.64     0.66      1.20      0.68     0.030     0.030     0.030     0.000     55.00   1783.47
 0.000053     160.      160.      160.         0         0         0      0.00    584.13   2367.60
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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 392.210
  392.21     9.37     64.37      0.00     70.95     64.40      0.02      0.01      0.00     55.00
   3500.     498.     2957.      45.      387.      2366.      62.      195.       47.      59.00
    0.68     1.29      1.25     0.73     0.030     0.030     0.030     0.000     55.00   1748.22
0.000061     185.      185.     185.        0         0         0      0.00    494.83   2243.05


*SECNO 394.000

3265 DIVIDED FLOW

  394.00     9.30     64.30      0.00     70.54     64.46      0.17      0.02      0.04     55.00
   3500.     746.     2740.      13.      239.      830.      14.       203.       49.      63.00
    0.70     3.13      3.30     0.93     0.030     0.030     0.030     0.000     55.00   1769.83
0.000621     175.      175.     175.         2         0         0      0.00    271.09   2092.09


*SECNO 395.550
  395.55     9.47     64.47      0.00     71.29     64.51      0.04      0.04      0.01     55.00
   3500.      20.     3392.      88.       22.      2012.      82.      209.       50.      59.00
    0.72     0.91      1.69     1.07     0.030     0.030     0.030     0.000     55.00   1805.26
0.000124     160.      160.     160.         2         0         0      0.00    409.83   2215.09


*SECNO 396.550
  396.55     9.49     64.49      0.00     71.43     64.53      0.03      0.01      0.00     55.00
   3500.     125.     3320.      55.      101.      2272.      71.      214.       51.      60.00
    0.74     1.24      1.46     0.78     0.030     0.030     0.030     0.000     55.00   1765.00
0.000084      95.       95.      95.         1         0         0      0.00    451.50   2216.50


*SECNO 397.250
  397.25     4.45     64.45      0.00     71.43     64.56      0.11      0.01      0.02    130.00
   3500.       0.     3500.       0.        0.      1337.       0.      216.       52.      66.00
    0.75     0.00      2.62     0.00     0.000     0.020     0.000     0.000     60.00   1812.96
0.000326      65.       65.      65.         2         0         0      0.00    490.56   2303.52


*SECNO 398.150

3265 DIVIDED FLOW

  398.15     4.34     64.34      0.00     70.55     64.69      0.35      0.06      0.07     60.00
   3500.      10.     3458.      32.       4.       728.      12.      218.       52.      62.00
    0.75     2.30      4.75     2.70     0.030     0.030     0.030     0.000     60.00   1808.03
0.002485      85.       85.      85.         2         0         0      0.00    285.00   2165.25
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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 399.450

3265 DIVIDED FLOW

  399.45     4.73     64.73     0.00     71.68     64.96     0.23      0.26      0.01      60.00
   3500.      12.     3488.      0.        6.      899.      0.        221.      53.       67.00
    0.76     2.15      3.88     0.00     0.030     0.030    0.000     0.000     60.00    1772.64
0.001750     125.      125.     125.        2         0        0      0.00    352.02    2141.48

*SECNO 401.000
  401.00     5.00     65.00     0.00     72.38     65.06     0.06      0.09      0.02      60.00
   3500.      36.     3464.      0.       27.     1787.      0.        226.      55.       65.00
    0.79     1.34      1.94     0.00     0.030     0.030    0.000     0.000     60.00    1764.28
0.000247     165.      165.     165.        2         0        0      0.00    465.76    2230.03

*SECNO 402.500
  402.50     5.03     65.03     0.00     72.37     65.10     0.07      0.04      0.00      62.00
   3500.     155.     3345.      0.      112.     1566.      0.        232.      56.       70.00
    0.81     1.39      2.14     0.00     0.030     0.030    0.000     0.000     60.00    1769.83
0.000248     150.      150.     150.        2         0        0      0.00    394.82    2164.65

*SECNO 404.200

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

  404.20     4.76     64.76     0.00     71.95     65.37     0.60      0.10      0.16      62.00
   3500.     527.     2973.      0.      118.      457.      0.        236.      58.       66.00
    0.81     4.46      6.51     0.00     0.030     0.030    0.000     0.000     60.00    1819.02
0.003416     170.      170.     170.        2         0        0      0.00    205.48    2056.80

*SECNO 405.350

3265 DIVIDED FLOW

  405.35     5.06     65.06     0.00     72.54     65.81     0.75      0.40      0.04      60.00
   3500.     692.     2808.      0.      140.      381.      0.        238.      58.       65.00
    0.82     4.94      7.38     0.03     0.030     0.030    0.030     0.000     60.00    1823.08
0.003538     115.      115.     115.        6         0        0      0.00    182.94    2170.59
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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


*SECNO 406.700

3301 HV CHANGED MORE THAN HVINS

  406.70     5.88     65.88      0.00     73.22     65.97      0.09      0.09      0.07     65.00
   3500.       1.     3414.       85.        2.     1382.       49.      241.       59.     60.00
    0.83     0.50      2.47      1.72     0.030     0.030     0.030     0.000     60.00   1769.74
0.000311     125.      125.      125.         2         0         0      0.00    312.06   2081.79


*SECNO 408.000
  408.00     5.96     65.96      0.00     73.60     66.00      0.04      0.02      0.00     64.00
   3500.     100.     3313.       87.       148.     1936.       80.      246.       60.     60.00
    0.85     0.68      1.71      1.08     0.030     0.030     0.030     0.000     60.00   1696.17
0.000115     140.      140.      140.         2         0         0      0.00    465.64   2161.81


*SECNO 409.250
  409.25     2.89     65.89      0.00     73.32     66.08      0.19      0.03      0.04     69.00
   3500.       0.     3466.       34.        0.      988.       16.      251.       61.     63.00
    0.86     0.00      3.51      2.19     0.000     0.030     0.030     0.000     63.00   1785.57
0.001257     115.      115.      115.         2         0         0      0.00    360.25   2145.82


*SECNO 410.500

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.50     1.83     66.83     66.83     73.07     67.55      0.72      0.36      0.16     67.00
   3500.       0.     3449.       51.        0.      505.       10.      253.       62.     65.00
    0.87     0.00      6.83      5.02     0.000     0.030     0.030     0.000     65.00   1777.60
0.011782     125.      125.      125.        20        14         0      0.00    363.39   2140.99


*SECNO 411.250
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  411.25     1.76     68.76     68.76     72.89     69.42      0.67      0.86      0.01     68.00
   3500.       4.     3461.       35.        1.      526.       13.      254.       63.     68.00
    0.87     2.71      6.58      2.75     0.030     0.030     0.030     0.000     67.00   1706.22
0.011254      75.       75.       75.        20         8         0      0.00    412.77   2118.99
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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 412.250

3301 HV CHANGED MORE THAN HVINS

  412.25     2.59     69.59      0.00     74.61     69.72      0.13      0.25      0.05     67.00
   3500.      41.     3418.       41.       22.     1164.       22.      256.       64.     67.00
    0.88     1.84      2.94      1.84     0.030     0.030     0.030     0.000     67.00   1672.75
0.000989     105.      105.      105.         2         0         0      0.00    484.49   2157.25


*SECNO 413.250
  413.25     2.73     69.73      0.00     75.27     69.80      0.07      0.07      0.01     67.00
   3500.      41.     3434.       25.       31.     1609.       19.      259.       65.     67.00
    0.90     1.34      2.13      1.33     0.030     0.030     0.030     0.000     67.00   1557.28
0.000487     100.      100.      100.         2         0         0      0.00    626.36   2183.64


*SECNO 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=     550.100
  414.55     2.78     69.78      0.00     75.27     69.86      0.08      0.06      0.00     67.00
   3500.       0.     3500.        0.        0.     1531.        0.      264.       67.  100000.00
    0.91     0.01      2.29      0.00     0.030     0.030     0.000     0.000     67.00   1679.98
0.000548     125.      125.      125.         2         0         0      0.00    550.02   2230.00


*SECNO 416.050
  416.05     2.87     69.87      0.00     75.45     69.95      0.08      0.08      0.00     67.00
   3500.      47.     3416.       37.       28.     1460.       26.      269.       69.     67.00
    0.93     1.68      2.34      1.46     0.030     0.030     0.030     0.000     67.00   1679.99
0.000548     155.      155.      155.         0         0         0      0.00    542.90   2222.89


*SECNO 417.300
  417.30     2.93     69.93      0.00     75.54     70.02      0.10      0.07      0.00     67.00
   3500.      56.     3417.       27.       36.     1363.       17.      273.       70.     67.00
    0.94     1.57      2.51      1.55     0.030     0.030     0.030     0.000     67.00   1700.57
0.000610     120.      120.      120.         0         0         0      0.00    501.16   2201.73


*SECNO 418.450
  418.45     2.99     69.99      0.00     75.46     70.12      0.13      0.09      0.01     70.00
   3500.       0.     3441.       59.        0.     1169.       31.      277.       72.     67.00
    0.95     0.00      2.95      1.88     0.000     0.030     0.030     0.000     67.00   1755.00
0.000855     120.      120.      120.         0         0         0      0.00    420.74   2175.74
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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 419.550

3265 DIVIDED FLOW

   419.55     3.08     70.08      0.00     75.86     70.22      0.13      0.10      0.00     67.00
    3500.     214.     3242.      44.       96.     1092.      24.       280.      73.      67.00
     0.96     2.23      2.97     1.85     0.030     0.030     0.030     0.000     67.00  1689.69
 0.000802     115.      115.     115.        1         0         0      0.00    442.44  2190.39


*SECNO 420.650
   420.65     3.15     70.15      0.00     75.84     70.34      0.19      0.11      0.02     67.00
    3500.     266.     3133.     100.       95.      865.      50.       283.      74.      67.00
     0.97     2.81      3.62     2.01     0.030     0.030     0.030     0.000     67.00  1759.42
 0.001160     110.      110.     110.        2         0         0      0.00    412.04  2171.46


*SECNO 422.300
   422.30     3.33     70.33      0.00     75.82     70.54      0.21      0.20      0.01     68.00
    3500.      15.     3290.     195.        8.      873.      74.       286.      75.      67.00
     0.99     1.90      3.77     2.65     0.030     0.030     0.030     0.000     67.00  1843.15
 0.001299     180.      160.     140.        2         0         0      0.00    334.31  2177.46


*SECNO 423.650

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   423.65     1.58     70.58     70.58     75.49     71.35      0.78      0.40      0.17     69.00
    3500.      16.     3467.      17.        4.      489.       4.       289.      76.      69.00
     0.99     4.32      7.10     4.33     0.030     0.030     0.030     0.000     69.00  1835.27
 0.011195     170.      140.     120.       20        11         0      0.00    319.65  2154.92
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THIS RUN EXECUTED: Wed 21-JAN-1987 09:08:45.52

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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T1      INDIAN BEND WASH: CHAPARRAL ROAD TO INDIAN BEND ROAD
T2      EA # 1192.2:  SCOTTSDALE LAKES GOLF COURSE:  USCE'S LOW "n" VALUES
T3      DESIGN CONDITIONS(5B )              (1192D5B)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0.       7.        0.        0.  0.000000     -1.00       0.0       0.     0.000     0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
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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


*PROF 6

CCHV=   0.100 CEHV=   0.300
*SECNO 314.630
2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
   314.63     2.90     47.10     0.00      0.00     47.35     0.25      0.00      0.00     44.20
   1000.      0.       1000.     0.        0.       250.      0.        0.        0.       45.00
   0.00       0.02     4.00      0.02      0.030    0.030     0.030     0.000     44.20    2550.05
 0.001926     0.       0.        0.        0        0         0         0.00      100.00   2650.04


*SECNO 319.760

3470 ENCROACHMENT STATIONS=    2440.0    2650.0  TYPE=     1  TARGET=     210.000
   319.76     2.23     48.53     0.00      53.51    48.90     0.37      1.51      0.04     52.30
   1000.      0.       980.      20.       0.       199.      7.        3.        1.       47.00
   0.03       0.00     4.93      2.94      0.000    0.030     0.030     0.000     46.30    2493.38
 0.005145     510.     510.      510.      2        0         0         0.00      130.54   2623.91


*SECNO 326.350

3470 ENCROACHMENT STATIONS=    2420.0    2610.0  TYPE=     1  TARGET=     190.000
   326.35     2.85     50.25     0.00      54.40    50.40     0.15      1.48      0.02     53.00
   1000.      0.       972.      28.       0.       312.      15.       7.        3.       48.00
   0.09       0.00     3.12      1.89      0.000    0.030     0.030     0.000     47.40    2442.10
 0.001272     650.     650.      650.      2        0         0         0.00      145.96   2588.05


*SECNO 332.150
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    2365.0    2625.0  TYPE=     1  TARGET=     260.000
   332.15     1.52     52.52     52.52     55.09    52.97     0.46      1.73      0.09     56.00
   1000.      0.       1000.     0.        0.       184.      0.        10.       6.       54.00
   0.12       0.00     5.43      0.00      0.000    0.030     0.000     0.000     51.00    2382.41
 0.014083     575.     575.      575.      20       11        0         0.00      207.77   2590.18


*SECNO 336.200
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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


3470 ENCROACHMENT STATIONS=    2320.0    2585.0  TYPE=     1  TARGET=     265.000
   336.20     1.53     54.53     0.00     56.02     54.66     0.13      1.65      0.03     53.00
   1000.      10.      983.      7.        6.       343.      4.        13.       8.       53.00
    0.16      1.78     2.87      1.75     0.030     0.030    0.030     0.000     53.00   2332.38
 0.001906     405.     405.      405.       5         0        0       0.00     237.71   2570.08


*SECNO 341.600
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    2275.0    2445.0  TYPE=     1  TARGET=     170.000
   341.60     1.86     56.86    56.86     60.06     57.46     0.60      2.10      0.14     56.00
   1000.      10.      990.      0.        3.       159.      0.        16.       10.      57.00
    0.18      3.12     6.24      0.00     0.030     0.030    0.000     0.000     55.00   2292.83
 0.012324     535.     535.      535.       4        11        0       0.00     138.66   2431.50


*SECNO 346.950

3470 ENCROACHMENT STATIONS=    2230.0    2415.0  TYPE=     1  TARGET=     185.000
   346.95     3.63     58.63     0.00     62.29     58.76     0.14      1.26      0.05     57.00
   1000.       6.      972.      22.        4.       325.      12.       19.       12.      56.00
    0.23      1.30     2.99      1.80     0.030     0.030    0.030     0.000     55.00   2264.57
 0.000963     535.     535.      535.       6         0        0       0.00     134.82   2399.39


*SECNO 351.180

3470 ENCROACHMENT STATIONS=    2190.0    2360.0  TYPE=     1  TARGET=     170.000
   351.18     2.15     59.15     0.00     62.84     59.37     0.22      0.58      0.03     57.00
   1000.      28.      915.      57.       12.       237.      19.       22.       13.      57.00
    0.26      2.40     3.86      3.03     0.030     0.030    0.030     0.000     57.00   2209.22
 0.002182     420.     420.      420.       3         0        0       0.00     134.63   2343.85


*SECNO 356.690

3470 ENCROACHMENT STATIONS=    2165.0    2420.0  TYPE=     1  TARGET=     255.000
   356.69     2.64     60.34     0.00     64.05     60.54     0.19      1.16      0.00     62.00
   1000.       0.      902.      98.        0.       250.      39.       25.       15.      58.00
    0.31      0.00     3.60      2.50     0.000     0.030    0.030     0.000     57.70   2196.13
 0.002070     545.     545.      545.       2         0        0       0.00     157.29   2353.42
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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 360.850

3470 ENCROACHMENT STATIONS=    2100.0    2260.0  TYPE=     1  TARGET=     160.000
   360.85     5.77    60.77     0.00    64.05    60.86     0.09     0.32     0.01    60.00
   1000.       1.     993.       6.       2.     418.       7.      29.      16.    59.00
     0.35     0.52     2.37     0.89    0.030    0.030    0.030    0.000    55.00  2114.86
 0.000392    415.     415.     415.        2        0        0     0.00   122.72  2237.59


*SECNO 365.100

3470 ENCROACHMENT STATIONS=    2060.0    2390.0  TYPE=     1  TARGET=     330.000
   365.10     5.97    60.97     0.00    66.37    61.00     0.04     0.14     0.01    60.00
   1000.       2.     996.       1.       5.     660.       3.      34.      18.    60.00
     0.43     0.50     1.51     0.50    0.030    0.030    0.030    0.000    55.00  2080.34
 0.000270    420.     420.     420.        2        0        0     0.00   275.17  2355.52


CCHV=   0.300 CEHV=   0.500
*SECNO 367.080

3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
   367.08     6.03    61.03     0.00    66.65    61.12     0.09     0.09     0.03100000.00
   1000.       0.    1000.       0.       0.     422.       0.      36.      19.    60.00
     0.45     0.00     2.37     0.02    0.000    0.030    0.000    0.000    55.00  2155.09
 0.000944    200.     200.     200.        0        0        0     0.00   214.92  2370.01


*SECNO 367.180

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
   367.18     6.03    61.03     0.00    66.64    61.14     0.11     0.01     0.01100000.00
   1000.       0.    1000.       0.       0.     372.       0.      36.      19.    60.00
     0.46     0.00     2.69     0.02    0.000    0.025    0.000    0.000    55.00  2155.09
 0.000931      10.      10.      10.        0        0        0     0.00   196.90  2370.01


*SECNO 367.980
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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


3470 ENCROACHMENT STATIONS=    2155.0    2370.1  TYPE=     1  TARGET=     215.100
   367.98     6.11    61.11     0.00    66.87    61.21     0.10     0.07     0.00100000.00
    1000.       0.    1000.       0.       0.     385.       0.      37.      20.     60.00
     0.46     0.00     2.60     0.01    0.000    0.025    0.000    0.000    55.00  2155.08
 0.000833      80.      80.      80.        0        0        0     0.00   196.91  2370.01


*SECNO 368.220

3470 ENCROACHMENT STATIONS=    2120.0    2365.1  TYPE=     1  TARGET=     245.100
   368.22     6.23    61.23     0.00    66.79    61.24     0.01     0.00     0.03    56.00
    1000.      32.     925.      43.      68.     1102.     75.      38.      20.     55.00
     0.48     0.47     0.84     0.57    0.030    0.030    0.030    0.000    55.00  2138.83
 0.000026     120.      30.      30.        2        0        0     0.00   226.18  2365.01


CCHV=   0.100 CEHV=   0.300
*SECNO 369.300

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2055.0    2370.1  TYPE=     1  TARGET=     315.100
   369.30     6.23    61.23     0.00    67.36    61.25     0.02     0.00     0.00    55.00
    1000.      92.     893.      15.      97.     787.     22.      40.      20.     58.00
     0.50     0.94     1.14     0.68    0.030    0.030    0.030    0.000    55.00  2083.26
 0.000078     110.     100.     100.        2        0        0     0.00   229.48  2370.01


*SECNO 370.210

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=    2050.0    2355.1  TYPE=     1  TARGET=     305.100
   370.21     6.23    61.23     0.00    67.39    61.27     0.04     0.01     0.01    55.00
    1000.     220.     778.       2.     130.     489.      4.      42.      21.     60.00
     0.52     1.70     1.59     0.56    0.030    0.030    0.030    0.000    55.00  2068.81
 0.000249     100.     100.     100.        0        0        0     0.00   215.18  2346.19
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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 372.000

3470 ENCROACHMENT STATIONS=    2030.0    2340.0  TYPE=     1  TARGET=     310.010
   372.00     6.27     61.27     0.00     67.26     61.30     0.02      0.02      0.00     55.00
    1000.     106.     865.      29.      109.      697.      39.       45.       22.      57.00
     0.56     0.97     1.24     0.75     0.030     0.030     0.030     0.000     55.00  2065.18
 0.000085     200.     180.     180.        1         0         0      0.00    207.88  2273.06


*SECNO 374.350

3470 ENCROACHMENT STATIONS=    1975.0    2350.0  TYPE=     1  TARGET=     375.000
   374.35     6.29     61.29     0.00     67.66     61.32     0.02      0.02      0.00     55.00
    1000.     156.     839.       5.      139.      695.       9.       49.       23.      59.00
     0.60     1.12     1.21     0.56     0.030     0.030     0.030     0.000     55.00  2000.89
 0.000113     205.     190.     190.        1         0         0      0.00    251.78  2252.67


*SECNO 375.200

3470 ENCROACHMENT STATIONS=    1990.0    2330.0  TYPE=     1  TARGET=     340.000
   375.20     6.30     61.30     0.00     67.18     61.33     0.03      0.01      0.00     55.00
    1000.      77.     923.       0.       70.      670.       0.       50.       23.      68.00
     0.62     1.11     1.38     0.00     0.030     0.030     0.000     0.000     55.00  2022.94
 0.000115      85.      85.      85.        0         0         0      0.00    182.79  2205.73


*SECNO 377.050
   377.05     6.33     61.33     0.00     69.57     61.33     0.01      0.00      0.00     55.00
    1000.      41.     918.      41.      110.     1518.     117.       55.       24.      55.00
     0.70     0.38     0.60     0.35     0.030     0.030     0.030     0.000     55.00  1970.22
 0.000013     150.     165.     150.        1         0         0      0.00    326.54  2296.76


*SECNO 379.380

3265 DIVIDED FLOW

   379.38     6.32     61.32     0.00     69.36     61.35     0.04      0.01      0.01     55.00
    1000.     198.     783.      19.      133.      505.      21.       61.       26.      58.00
     0.74     1.48     1.55     0.92     0.030     0.030     0.030     0.000     55.00  1995.27
 0.000186     230.     230.     230.        2         0         0      0.00    201.89  2247.68
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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


*SECNO 380.850
  380.85     6.35     61.35      0.00     70.05     61.36      0.01      0.01      0.00     55.00
   1000.     358.      633.       8.      516.      860.      21.       65.       26.      57.00
    0.80     0.69      0.74      0.39     0.030     0.030     0.030     0.000    55.00   1981.83
0.000025     160.      140.      140.        2         0         0      0.00   297.84   2279.68


*SECNO 383.100

3265 DIVIDED FLOW

  383.10     6.36     61.36      0.00     70.40     61.37      0.01      0.01      0.00     55.00
   1000.     479.      516.       4.      641.      532.      21.       72.       28.      60.00
    0.87     0.75      0.97      0.21     0.030     0.030     0.030     0.000    55.00   1893.77
0.000052     230.      220.      220.        1         0         0      0.00   395.79   2346.32


*SECNO 385.000

3265 DIVIDED FLOW

  385.00     6.37     61.37      0.00     70.49     61.39      0.02      0.01      0.00     55.00
   1000.     110.      889.       1.      106.      826.       3.       76.       30.      60.00
    0.92     1.03      1.08      0.42     0.030     0.030     0.030     0.000    55.00   1911.80
0.000128     185.      170.      110.        0         0         0      0.00   406.89   2344.55


*SECNO 386.750

3265 DIVIDED FLOW

  386.75     6.39     61.39      0.00     70.58     61.41      0.02      0.03      0.00     59.00
   1000.     226.      764.      10.      193.      631.      13.       79.       31.      59.00
    0.96     1.17      1.21      0.75     0.030     0.030     0.030     0.000    55.00   1933.08
0.000186     170.      170.      160.        0         0         0      0.00   360.02   2355.84


*SECNO 388.650

3265 DIVIDED FLOW

  388.65     6.43     61.43      0.00     70.83     61.44      0.01      0.03      0.00     55.00
   1000.     249.      743.       8.      281.      775.      13.       83.       33.      59.00
    1.01     0.89      0.96      0.60     0.030     0.030     0.030     0.000    55.00   1844.10
0.000116     190.      190.      190.        0         0         0      0.00   480.40   2360.83
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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 391.350
   391.35     6.45     61.45      0.00     70.91     61.45      0.01      0.01      0.00     59.00
   1000.      11.      985.       4.       30.      1456.      13.       88.       35.      59.00
    1.08     0.36      0.68      0.35     0.030     0.030     0.030     0.000     55.00   1865.47
 0.000040    160.      160.      160.       0         0         0       0.00     489.86   2355.33


*SECNO 392.210

3265 DIVIDED FLOW

   392.21     6.45     61.45      0.00     70.95     61.46      0.01      0.01      0.00     55.00
   1000.     151.      844.       5.       204.     1202.      13.       94.       37.      59.00
    1.15     0.74      0.70      0.36     0.030     0.030     0.030     0.000     55.00   1755.89
 0.000041    185.      185.      185.       0         0         0       0.00     431.99   2230.54


*SECNO 394.000
   394.00     6.43     61.43      0.00     70.54     61.49      0.06      0.01      0.02     55.00
   1000.      77.      923.       0.       80.      457.       0.       98.       38.      63.00
    1.18     0.95      2.02      0.00     0.030     0.030     0.000     0.000     55.00   1779.95
 0.000184    175.      175.      175.       2         0         0       0.00     137.20   1917.15


*SECNO 395.550

3265 DIVIDED FLOW

   395.55     6.50     61.50      0.00     71.29     61.52      0.02      0.02      0.00     55.00
   1000.       8.      982.      11.       11.      910.       17.      101.       39.      59.00
    1.22     0.71      1.08      0.64     0.030     0.030     0.030     0.000     55.00   1806.75
 0.000125    160.      160.      160.       2         0         0       0.00     350.56   2198.75


*SECNO 396.550
   396.55     6.52     61.52      0.00     71.43     61.53      0.01      0.01      0.00     55.00
   1000.      43.      954.       3.       47.      1093.       8.      103.       40.      60.00
    1.25     0.92      0.87      0.37     0.030     0.030     0.030     0.000     55.00   1775.52
 0.000080     95.       95.       95.       0         0         0       0.00     420.08   2195.60


*SECNO 397.250
   397.25     1.36     61.36      0.00     71.43     61.62      0.26      0.02      0.07    130.00
   1000.       0.      1000.       0.       0.       247.       0.       104.       40.      66.00
    1.25     0.00      4.05      0.00     0.000     0.020     0.000     0.000     60.00   1959.93
 0.002732     65.       65.       65.       2         0         0       0.00     231.28   2191.21
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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 398.150
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  398.15     1.48     61.48     61.48     70.55     62.19      0.71      0.42      0.14     60.00
   1000.      1.      999.       0.        0.       147.       0.       105.       41.      62.00
    1.26     2.45      6.78      0.00     0.030     0.030     0.000     0.000     60.00   1809.33
0.011806     85.       85.       85.        2         8         0      0.00     104.55   1913.88


*SECNO 399.450

3301 HV CHANGED MORE THAN HVINS

  399.45     2.49     62.49      0.00     71.68     62.69      0.20      0.45      0.05     60.00
   1000.      2.      998.       0.        2.       277.       0.       105.       41.      67.00
    1.26     1.38      3.60      0.00     0.030     0.030     0.000     0.000     60.00   1773.76
0.001691    125.      125.      125.        3         0         0      0.00     118.69   1892.45


*SECNO 401.000
  401.00     2.74     62.74      0.00     72.38     62.76      0.02      0.05      0.02     60.00
   1000.      5.      995.       0.        8.       936.       0.       108.       42.      65.00
    1.31     0.64      1.06      0.00     0.030     0.030     0.000     0.000     60.00   1769.13
0.000124    165.      165.      165.        2         0         0      0.00     354.55   2123.69


*SECNO 402.500
  402.50     2.76     62.76      0.00     72.37     62.78      0.02      0.02      0.00     62.00
   1000.      4.      996.       0.       12.       798.       0.       111.       43.      70.00
    1.34     0.36      1.25      0.00     0.030     0.030     0.000     0.000     60.00   1789.58
0.000196    150.      150.      150.        2         0         0      0.00     361.18   2150.76


*SECNO 404.200
  404.20     2.63     62.63      0.00     71.95     62.96      0.34      0.08      0.09     62.00
   1000.     10.      990.       0.        8.       212.       0.       113.       44.      66.00
    1.35     1.21      4.68      0.00     0.030     0.030     0.000     0.000     60.00   1864.93
0.002826    170.      170.      170.        2         0         0      0.00     113.83   1978.76


*SECNO 405.350
  405.35     2.96     62.96      0.00     72.54     63.24      0.28      0.27      0.01     60.00
   1000.     84.      916.       0.       29.       210.       0.       113.       44.      65.00
    1.36     2.88      4.36      0.00     0.030     0.030     0.000     0.000     60.00   1890.25
0.002038    115.      115.      115.        2         0         0      0.00     96.60   1986.85
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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 406.700
   406.70     3.29     63.29      0.00     73.22     63.32      0.03      0.06      0.02     65.00
   1000.       0.      986.       14.       0.      687.       15.      115.       45.      60.00
    1.38      0.00      1.44      0.92     0.000     0.030     0.030     0.000     60.00   1839.08
 0.000191     125.      125.      125.        2         0         0      0.00    235.32   2074.40


*SECNO 408.000
   408.00     3.33     63.33      0.00     73.60     63.34      0.01      0.02      0.00     64.00
   1000.       0.      985.       15.       0.     1056.       25.      117.       46.      60.00
    1.43      0.00      0.93      0.59     0.000     0.030     0.030     0.000     60.00   1805.05
 0.000075     140.      140.      140.        2         0         0      0.00    344.93   2149.97


*SECNO 409.250
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   409.25     0.65     63.65     63.65     73.32     63.97      0.32      0.03      0.09     69.00
   1000.       0.      998.        2.       0.      218.        1.      119.       47.      63.00
    1.43      0.00      4.58      2.83     0.000     0.030     0.030     0.000     63.00   1796.76
 0.015344     115.      115.      115.       20        21         0      0.00    340.67   2137.43


*SECNO 410.500
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   410.50     0.94     65.94     65.94     73.07     66.29      0.34      1.89      0.01     67.00
   1000.       0.      990.       10.       0.      210.        3.      120.       47.      65.00
    1.44      0.00      4.71      3.63     0.000     0.030     0.030     0.000     65.00   1824.70
 0.014856     125.      125.      125.        1        11         0      0.00    310.96   2135.67


*SECNO 411.250
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   411.25     0.90     67.90     67.90     72.89     68.25      0.34      1.12      0.00     68.00
   1000.       0.     1000.        0.       0.      212.        0.      120.       48.      68.00
    1.44      0.00      4.71      0.00     0.000     0.030     0.000     0.000     67.00   1769.05
 0.014940      75.       75.       75.       15         9         0      0.00    309.28   2078.33
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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 412.250
  412.25     1.42     68.42      0.00     74.61     68.46      0.04      0.18      0.03     67.00
   1000.      7.      987.       7.        7.      642.       7.       121.       49.      67.00
    1.46     0.96      1.54      0.96     0.030     0.030     0.030     0.000     67.00   1680.50
0.000601     105.      105.      105.       3         0         0       0.00    469.01   2149.50

*SECNO 413.250
  413.25     1.48     68.48      0.00     75.27     68.50      0.02      0.04      0.00     67.00
   1000.      6.      990.       4.        9.      871.       5.       123.       50.      67.00
    1.49     0.71      1.14      0.71     0.030     0.030     0.030     0.000     67.00   1567.70
0.000313     100.      100.      100.       2         0         0       0.00    609.69   2177.38

*SECNO 414.550

3470 ENCROACHMENT STATIONS=    1679.9    2230.0  TYPE=     1  TARGET=     550.100
  414.55     1.52     68.52      0.00     75.27     68.54      0.02      0.04      0.00     67.00
   1000.      0.      1000.       0.        0.      840.       0.       125.       52.  100000.00
    1.52     0.01      1.19      0.00     0.000     0.030     0.000     0.000     67.00   1679.99
0.000330     125.      125.      125.       1         0         0       0.00    550.01   2230.00

*SECNO 416.050
  416.05     1.57     68.57      0.00     75.45     68.59      0.02      0.05      0.00     67.00
   1000.      7.      987.       6.        9.      800.       8.       128.       54.      67.00
    1.55     0.77      1.23      0.77     0.030     0.030     0.030     0.000     67.00   1683.24
0.000341     155.      155.      155.       0         0         0       0.00    531.56   2214.80

*SECNO 417.300
  417.30     1.61     68.61      0.00     75.54     68.64      0.03      0.04      0.00     67.00
   1000.      9.      987.       4.       11.      748.       5.       131.       55.      67.00
    1.58     0.83      1.32      0.81     0.030     0.030     0.030     0.000     67.00   1711.59
0.000376     120.      120.      120.       0         0         0       0.00    484.85   2196.44

*SECNO 418.450
  418.45     1.66     68.66      0.00     75.46     68.69      0.04      0.05      0.00     70.00
   1000.      0.      990.      10.        0.      631.       9.       132.       56.      67.00
    1.60     0.00      1.57      1.02     0.000     0.030     0.030     0.000     67.00   1755.00
0.000550     120.      120.      120.       0         0         0       0.00    411.44   2166.44
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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 419.550
   419.55     1.72     68.72      0.00     75.86     68.75      0.04      0.06      0.00     67.00
   1000.       34.      959.       7.       30.      607.       7.       134.       57.      67.00
    1.62      1.11      1.58      0.98     0.030     0.030     0.030     0.000     67.00   1782.28
 0.000498     115.      115.      115.        0         0         0      0.00    401.27   2183.54


*SECNO 420.650
   420.65     1.77     68.77      0.00     75.84     68.82      0.06      0.06      0.01     67.00
   1000.       51.      933.      16.       36.      488.      13.       136.       58.      67.00
    1.64      1.44      1.91      1.20     0.030     0.030     0.030     0.000     67.00   1775.33
 0.000694     110.      110.      110.        0         0         0      0.00    324.45   2099.78


*SECNO 422.300
   422.30     1.89     68.89      0.00     75.82     68.95      0.07      0.13      0.00     68.00
   1000.       1.      965.      34.        1.      463.      24.       138.       60.      67.00
    1.66      0.85      2.08      1.45     0.030     0.030     0.030     0.000     67.00   1847.39
 0.000926     180.      160.      140.        2         0         0      0.00    312.79   2160.18


*SECNO 423.650
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   423.65     0.68     69.68     69.68     75.49     70.03      0.34      0.33      0.08     69.00
   1000.       2.      996.       2.        1.      212.       1.       139.       61.      69.00
    1.67      2.86      4.70      2.86     0.030     0.030     0.030     0.000     69.00   1837.95
 0.014923     170.      140.      120.       20        18         0      0.00    314.19   2152.14
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THIS RUN EXECUTED: Wed 21-JAN-1987 09:10:31.36

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

DESIGN CONDITIONS(5B)

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	314.630	0.00	0.00	0.00	44.20	30000.00	52.78	51.38	53.29	15.06	7.80	5538.27	7729.99
*	314.630	0.00	0.00	0.00	44.20	20000.00	50.63	50.63	51.69	48.53	11.44	2855.29	2870.93
*	314.630	0.00	0.00	0.00	44.20	17000.00	50.39	50.39	51.39	47.24	10.98	2556.94	2473.48
*	314.630	0.00	0.00	0.00	44.20	12000.00	50.00	50.00	50.81	40.17	9.67	2065.75	1893.34
*	314.630	0.00	0.00	0.00	44.20	3500.00	48.63	48.63	49.24	30.23	6.90	749.35	636.62
	314.630	0.00	0.00	0.00	44.20	1000.00	47.10	0.00	47.35	19.26	4.00	249.88	227.88
	319.760	510.00	0.00	0.00	46.30	30000.00	53.51	51.12	54.04	14.14	5.83	5124.93	7977.19
	319.760	510.00	0.00	0.00	46.30	20000.00	52.50	0.00	52.87	12.28	4.74	4124.52	5706.20
	319.760	510.00	0.00	0.00	46.30	17000.00	52.18	0.00	52.49	11.22	4.35	3812.82	5074.23
	319.760	510.00	0.00	0.00	46.30	12000.00	51.52	0.00	51.73	9.33	3.69	3221.53	3929.22
	319.760	510.00	0.00	0.00	46.30	3500.00	50.42	0.00	51.23	49.15	7.32	489.18	499.22
	319.760	510.00	0.00	0.00	46.30	1000.00	48.53	0.00	48.90	51.45	4.93	205.63	139.41
	326.350	650.00	0.00	0.00	47.00	30000.00	54.40	51.98	54.93	13.24	5.93	5137.07	8243.95
	326.350	650.00	0.00	0.00	47.00	20000.00	53.28	0.00	53.66	12.03	4.92	4019.94	5766.23
	326.350	650.00	0.00	0.00	47.00	17000.00	52.89	0.00	53.23	11.41	4.55	3650.40	5032.22
	326.350	650.00	0.00	0.00	47.00	12000.00	52.13	0.00	52.38	10.18	3.91	2982.21	3761.65
	326.350	650.00	0.00	0.00	47.40	3500.00	52.55	0.00	52.95	15.84	5.15	700.49	879.41
	326.350	650.00	0.00	0.00	47.40	1000.00	50.25	0.00	50.40	12.72	3.12	326.51	280.37
	332.150	575.00	0.00	0.00	47.00	30000.00	55.09	52.79	55.75	13.82	4.02	4755.14	8070.24
	332.150	575.00	0.00	0.00	47.00	20000.00	53.91	0.00	54.38	12.17	2.86	3760.64	5732.24
	332.150	575.00	0.00	0.00	47.00	17000.00	53.50	0.00	53.91	11.48	2.46	3422.00	5016.34
	332.150	575.00	0.00	0.00	47.00	12000.00	52.67	0.00	52.99	10.30	1.63	2761.31	3738.53
	332.150	575.00	0.00	0.00	51.00	3500.00	53.97	0.00	54.72	69.09	6.95	503.92	421.08
*	332.150	575.00	0.00	0.00	51.00	1000.00	52.52	52.52	52.97	140.83	5.43	184.32	84.27
*	336.200	405.00	0.00	0.00	50.00	30000.00	56.02	56.02	57.80	80.76	9.29	2822.96	3338.23
*	336.200	405.00	0.00	0.00	50.00	20000.00	55.17	55.17	56.56	84.81	7.65	2149.30	2171.72
*	336.200	405.00	0.00	0.00	50.00	17000.00	54.89	54.89	56.14	85.95	7.02	1928.44	1833.64
*	336.200	405.00	0.00	0.00	50.00	12000.00	54.48	54.48	55.39	75.56	5.58	1603.81	1380.46
	336.200	405.00	0.00	0.00	53.00	3500.00	55.95	0.00	56.34	25.17	5.11	699.09	697.64
	336.200	405.00	0.00	0.00	53.00	1000.00	54.53	0.00	54.66	19.06	2.87	352.74	229.03

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	341.600	535.00	0.00	0.00	55.00	30000.00	60.06	59.71	61.44	56.91	10.00	3193.04	3976.80
	341.600	535.00	0.00	0.00	55.00	20000.00	59.20	0.00	60.25	56.28	8.60	2444.62	2665.95
	341.600	535.00	0.00	0.00	55.00	17000.00	58.90	0.00	59.84	56.07	8.09	2190.16	2270.21
	341.600	535.00	0.00	0.00	55.00	12000.00	58.26	0.00	59.03	61.17	7.27	1702.69	1534.30
*	341.600	535.00	0.00	0.00	55.00	3500.00	58.41	58.41	59.66	88.89	9.11	397.29	371.22
*	341.600	535.00	0.00	0.00	55.00	1000.00	56.86	56.86	57.46	123.24	6.24	161.91	90.08
	346.950	535.00	0.00	0.00	55.00	30000.00	62.29	59.78	62.79	12.72	6.07	5353.96	8410.50
	346.950	535.00	0.00	0.00	55.00	20000.00	61.16	0.00	61.51	11.86	5.15	4234.50	5808.00
	346.950	535.00	0.00	0.00	55.00	17000.00	60.77	0.00	61.07	11.48	4.81	3854.46	5016.53
	346.950	535.00	0.00	0.00	55.00	12000.00	60.01	0.00	60.24	10.99	4.20	3137.17	3620.60
	346.950	535.00	0.00	0.00	55.00	3500.00	60.88	0.00	61.32	14.55	5.49	672.91	917.62
	346.950	535.00	0.00	0.00	55.00	1000.00	58.63	0.00	58.76	9.63	2.99	342.21	322.31
	351.180	420.00	0.00	0.00	57.00	30000.00	62.84	61.41	63.57	23.99	7.87	4405.48	6124.52
	351.180	420.00	0.00	0.00	57.00	20000.00	61.71	0.00	62.30	26.55	7.17	3284.44	3881.64
	351.180	420.00	0.00	0.00	57.00	17000.00	61.32	0.00	61.86	27.60	6.91	2917.29	3236.08
	351.180	420.00	0.00	0.00	57.00	12000.00	60.58	0.00	61.04	31.61	6.51	2216.57	2134.38
	351.180	420.00	0.00	0.00	57.00	3500.00	61.53	0.00	62.05	19.64	6.01	619.40	789.72
	351.180	420.00	0.00	0.00	57.00	1000.00	59.15	0.00	59.37	21.82	3.86	267.44	214.06
	356.690	545.00	0.00	0.00	56.00	30000.00	64.05	61.71	64.53	12.89	5.31	5429.81	8354.41
	356.690	545.00	0.00	0.00	56.00	20000.00	62.91	0.00	63.27	12.35	4.40	4192.49	5691.85
	356.690	545.00	0.00	0.00	56.00	17000.00	62.51	0.00	62.83	12.12	4.06	3769.18	4883.79
	356.690	545.00	0.00	0.00	56.00	12000.00	61.78	0.00	62.03	11.22	3.43	3035.10	3582.06
	356.690	545.00	0.00	0.00	57.70	3500.00	62.71	0.00	63.06	16.89	4.95	749.79	851.58
	356.690	545.00	0.00	0.00	57.70	1000.00	60.34	0.00	60.54	20.70	3.60	289.59	219.82
	360.850	415.00	0.00	0.00	55.00	30000.00	64.05	63.76	65.89	51.35	13.02	2857.30	4186.68
	360.850	415.00	0.00	0.00	55.00	20000.00	63.12	0.00	64.43	44.28	11.00	2268.31	3005.65
	360.850	415.00	0.00	0.00	55.00	17000.00	62.78	0.00	63.94	42.03	10.32	2054.63	2622.07
	360.850	415.00	0.00	0.00	55.00	12000.00	62.11	0.00	63.00	37.24	8.95	1661.91	1966.37
	360.850	415.00	0.00	0.00	55.00	3500.00	63.19	0.00	63.55	8.61	4.89	755.49	1192.57
	360.850	415.00	0.00	0.00	55.00	1000.00	60.77	0.00	60.86	3.92	2.37	426.93	505.17
	365.100	420.00	0.00	0.00	55.00	30000.00	66.37	63.97	66.97	12.80	7.03	4973.21	8385.01
	365.100	420.00	0.00	0.00	55.00	20000.00	64.97	0.00	65.43	12.94	6.21	3803.07	5559.81
	365.100	420.00	0.00	0.00	55.00	17000.00	64.49	0.00	64.91	12.99	5.92	3410.20	4716.25
	365.100	420.00	0.00	0.00	55.00	12000.00	63.57	0.00	63.92	13.27	5.36	2672.65	3293.76
	365.100	420.00	0.00	0.00	55.00	3500.00	63.67	0.00	63.76	2.74	2.47	1466.88	2113.74
	365.100	420.00	0.00	0.00	55.00	1000.00	60.97	0.00	61.00	2.70	1.51	667.39	608.94
	367.080	200.00	0.00	0.00	55.00	30000.00	66.65	64.88	67.30	18.46	7.15	4708.21	6981.99
	367.080	200.00	0.00	0.00	55.00	20000.00	65.22	0.00	65.82	20.39	7.25	3393.83	4429.57
	367.080	200.00	0.00	0.00	55.00	17000.00	64.74	0.00	65.32	21.58	7.19	2960.81	3659.37
	367.080	200.00	0.00	0.00	55.00	12000.00	63.83	0.00	64.39	25.43	6.96	2189.99	2379.64
	367.080	200.00	0.00	0.00	55.00	3500.00	63.70	0.00	63.89	6.72	3.52	995.73	1350.14
	367.080	200.00	0.00	0.00	55.00	1000.00	61.03	0.00	61.12	9.44	2.37	421.96	325.45

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
367.180	10.00	0.00	0.00	55.00	30000.00	66.64	65.27	67.35	19.06	7.75	4543.75	6871.44
367.180	10.00	0.00	0.00	55.00	20000.00	65.20	0.00	65.88	21.27	7.98	3244.76	4337.04
367.180	10.00	0.00	0.00	55.00	17000.00	64.71	0.00	65.39	22.54	7.95	2820.00	3580.86
367.180	10.00	0.00	0.00	55.00	12000.00	63.79	0.00	64.47	26.68	7.81	2059.19	2323.10
367.180	10.00	0.00	0.00	55.00	3500.00	63.69	0.00	63.92	6.90	3.92	893.28	1332.75
367.180	10.00	0.00	0.00	55.00	1000.00	61.03	0.00	61.14	9.31	2.69	371.92	327.70
367.980	80.00	0.00	0.00	55.00	30000.00	66.87	65.27	67.51	16.70	7.28	4761.45	7340.30
367.980	80.00	0.00	0.00	55.00	20000.00	65.51	0.00	66.07	17.14	7.23	3517.75	4830.54
367.980	80.00	0.00	0.00	55.00	17000.00	65.04	0.00	65.59	17.28	7.16	3101.46	4089.56
367.980	80.00	0.00	0.00	55.00	12000.00	64.22	0.00	64.70	17.44	6.64	2409.04	2873.34
367.980	80.00	0.00	0.00	55.00	3500.00	63.75	0.00	63.98	6.64	3.87	904.01	1357.99
367.980	80.00	0.00	0.00	55.00	1000.00	61.11	0.00	61.21	8.33	2.60	384.87	346.43
368.220	30.00	0.00	0.00	55.00	30000.00	66.79	64.69	67.81	13.42	9.34	4271.61	8187.90
368.220	30.00	0.00	0.00	55.00	20000.00	65.50	0.00	66.26	10.99	7.82	3316.57	6031.89
368.220	30.00	0.00	0.00	55.00	17000.00	65.06	0.00	65.72	9.89	7.21	3006.46	5406.33
368.220	30.00	0.00	0.00	55.00	12000.00	64.32	0.00	64.77	7.15	5.82	2540.71	4488.28
368.220	30.00	0.00	0.00	55.00	3500.00	63.98	0.00	64.04	0.86	1.97	1885.87	3780.20
368.220	30.00	0.00	0.00	55.00	1000.00	61.23	0.00	61.24	0.26	0.84	1245.35	1974.80
369.300	100.00	0.00	0.00	55.00	30000.00	67.36	64.78	67.97	11.13	7.24	5030.49	8993.97
369.300	100.00	0.00	0.00	55.00	20000.00	65.91	0.00	66.40	10.82	6.37	3849.91	6079.06
369.300	100.00	0.00	0.00	55.00	17000.00	65.41	0.00	65.85	10.71	6.05	3438.55	5194.72
369.300	100.00	0.00	0.00	55.00	12000.00	64.52	0.00	64.87	9.78	5.30	2731.96	3838.05
369.300	100.00	0.00	0.00	55.00	3500.00	63.99	0.00	64.05	1.75	2.12	1687.22	2644.62
369.300	100.00	0.00	0.00	55.00	1000.00	61.23	0.00	61.25	0.78	1.14	906.25	1131.68
370.210	190.00	0.00	0.00	55.00	30000.00	67.39	65.41	68.15	16.68	7.94	4385.39	7346.31
370.210	190.00	0.00	0.00	55.00	20000.00	65.96	0.00	66.57	17.57	7.12	3286.14	4771.93
370.210	190.00	0.00	0.00	55.00	17000.00	65.45	0.00	66.03	18.10	6.84	2902.16	3995.58
370.210	190.00	0.00	0.00	55.00	12000.00	64.56	0.00	65.04	18.30	6.16	2234.15	2805.36
370.210	190.00	0.00	0.00	55.00	3500.00	63.98	0.00	64.09	3.61	2.64	1311.66	1841.40
370.210	190.00	0.00	0.00	55.00	1000.00	61.23	0.00	61.27	2.49	1.59	622.21	633.49
372.000	180.00	0.00	0.00	55.00	30000.00	67.26	66.34	68.73	23.26	11.41	3493.85	6220.47
372.000	180.00	0.00	0.00	55.00	20000.00	65.89	0.00	67.12	21.68	10.03	2589.89	4295.35
372.000	180.00	0.00	0.00	55.00	17000.00	65.43	0.00	66.55	20.59	9.44	2284.98	3746.08
372.000	180.00	0.00	0.00	55.00	12000.00	64.63	0.00	65.47	16.51	7.92	1774.47	2952.93
372.000	180.00	0.00	0.00	55.00	3500.00	64.05	0.00	64.14	1.95	2.58	1457.58	2506.46
372.000	180.00	0.00	0.00	55.00	1000.00	61.27	0.00	61.30	0.85	1.24	844.17	1081.51
374.350	190.00	0.00	0.00	55.00	30000.00	67.66	65.98	69.21	23.21	10.94	3162.98	6227.70
374.350	190.00	0.00	0.00	55.00	20000.00	66.51	0.00	67.51	17.31	8.71	2630.95	4807.25
374.350	190.00	0.00	0.00	55.00	17000.00	66.07	0.00	66.92	15.56	7.97	2425.99	4309.25
374.350	190.00	0.00	0.00	55.00	12000.00	65.16	0.00	65.77	12.61	6.64	2002.94	3378.98
374.350	190.00	0.00	0.00	55.00	3500.00	64.10	0.00	64.18	1.89	2.32	1588.41	2545.20
374.350	190.00	0.00	0.00	55.00	1000.00	61.29	0.00	61.32	1.13	1.21	842.95	941.43

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
375.200	85.00	0.00	0.00	55.00	30000.00	67.18	66.91	69.79	42.81	13.94	2471.73	4585.19
375.200	85.00	0.00	0.00	55.00	20000.00	66.27	0.00	67.89	29.08	10.84	2096.62	3708.72
375.200	85.00	0.00	0.00	55.00	17000.00	65.88	0.00	67.24	25.57	9.89	1933.66	3361.76
375.200	85.00	0.00	0.00	55.00	12000.00	65.05	0.00	66.00	19.61	8.14	1591.18	2709.52
375.200	85.00	0.00	0.00	55.00	3500.00	64.09	0.00	64.21	2.68	2.78	1291.76	2137.58
375.200	85.00	0.00	0.00	55.00	1000.00	61.30	0.00	61.33	1.15	1.38	739.97	931.16
377.050	165.00	0.00	0.00	55.00	30000.00	69.57	62.50	70.17	5.06	6.65	5045.08	13336.19
377.050	165.00	0.00	0.00	55.00	20000.00	67.76	0.00	68.14	3.81	5.28	4194.17	10249.06
377.050	165.00	0.00	0.00	55.00	17000.00	67.14	0.00	67.46	3.35	4.79	3904.54	9293.92
377.050	165.00	0.00	0.00	55.00	12000.00	65.95	0.00	66.17	2.49	3.85	3348.60	7610.08
377.050	165.00	0.00	0.00	55.00	3500.00	64.21	0.00	64.23	0.40	1.38	2714.34	5525.44
377.050	165.00	0.00	0.00	55.00	1000.00	61.33	0.00	61.33	0.13	0.60	1744.87	2801.52
379.380	230.00	0.00	0.00	55.00	30000.00	69.36	66.01	70.53	15.80	9.40	3545.04	7548.04
379.380	230.00	0.00	0.00	55.00	20000.00	67.57	0.00	68.44	14.50	7.95	2714.62	5253.01
379.380	230.00	0.00	0.00	55.00	17000.00	66.96	0.00	67.74	13.70	7.37	2438.94	4593.36
379.380	230.00	0.00	0.00	55.00	12000.00	65.83	0.00	66.37	11.77	6.17	2046.74	3498.27
379.380	230.00	0.00	0.00	55.00	3500.00	64.18	0.00	64.27	2.62	2.43	1500.10	2161.09
379.380	230.00	0.00	0.00	55.00	1000.00	61.32	0.00	61.35	1.86	1.55	659.35	733.78
380.850	140.00	0.00	0.00	55.00	30000.00	70.05	63.51	70.72	6.39	7.19	4707.86	11867.30
380.850	140.00	0.00	0.00	55.00	20000.00	68.12	0.00	68.60	5.15	5.83	3688.75	8814.15
380.850	140.00	0.00	0.00	55.00	17000.00	67.49	0.00	67.88	4.56	5.29	3427.90	7964.44
380.850	140.00	0.00	0.00	55.00	12000.00	66.22	0.00	66.49	3.50	4.28	2946.95	6411.36
380.850	140.00	0.00	0.00	55.00	3500.00	64.25	0.00	64.29	0.65	1.59	2293.08	4351.55
380.850	140.00	0.00	0.00	55.00	1000.00	61.35	0.00	61.36	0.25	0.74	1397.17	1982.36
383.100	220.00	0.00	0.00	55.00	30000.00	70.40	64.07	70.87	5.08	5.60	5480.05	13311.38
383.100	220.00	0.00	0.00	55.00	20000.00	68.40	0.00	68.72	4.39	4.57	4424.74	9547.20
383.100	220.00	0.00	0.00	55.00	17000.00	67.72	0.00	67.99	4.10	4.20	4078.50	8394.36
383.100	220.00	0.00	0.00	55.00	12000.00	66.38	0.00	66.57	3.58	3.51	3421.68	6341.93
383.100	220.00	0.00	0.00	55.00	3500.00	64.27	0.00	64.31	0.85	1.51	2425.71	3800.64
383.100	220.00	0.00	0.00	55.00	1000.00	61.36	0.00	61.37	0.52	0.97	1194.17	1386.57
385.000	170.00	0.00	0.00	55.00	30000.00	70.49	64.51	70.96	5.12	5.80	5599.72	13258.45
385.000	170.00	0.00	0.00	55.00	20000.00	68.47	0.00	68.80	4.59	4.85	4459.57	9332.03
385.000	170.00	0.00	0.00	55.00	17000.00	67.79	0.00	68.07	4.37	4.50	4077.67	8134.74
385.000	170.00	0.00	0.00	55.00	12000.00	66.43	0.00	66.64	3.98	3.86	3341.10	6012.13
385.000	170.00	0.00	0.00	55.00	3500.00	64.29	0.00	64.33	1.12	1.65	2239.61	3300.06
385.000	170.00	0.00	0.00	55.00	1000.00	61.37	0.00	61.39	1.28	1.08	935.43	883.85
386.750	170.00	0.00	0.00	55.00	30000.00	70.58	65.07	71.06	5.96	5.86	5469.40	12289.27
386.750	170.00	0.00	0.00	55.00	20000.00	68.54	0.00	68.90	5.70	4.98	4220.49	8377.35
386.750	170.00	0.00	0.00	55.00	17000.00	67.85	0.00	68.16	5.54	4.65	3807.99	7221.17
386.750	170.00	0.00	0.00	55.00	12000.00	66.49	0.00	66.73	5.23	3.99	3094.50	5248.76
386.750	170.00	0.00	0.00	55.00	3500.00	64.30	0.00	64.35	1.58	1.76	2017.82	2783.21
386.750	170.00	0.00	0.00	55.00	1000.00	61.39	0.00	61.41	1.86	1.21	837.16	732.26

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
388.650	190.00	0.00	0.00	55.00	30000.00	70.83	64.08	71.16	3.51	4.81	6659.69	16022.19
388.650	190.00	0.00	0.00	55.00	20000.00	68.76	0.00	68.99	3.14	4.01	5317.73	11279.67
388.650	190.00	0.00	0.00	55.00	17000.00	68.05	0.00	68.25	2.99	3.72	4870.63	9830.26
388.650	190.00	0.00	0.00	55.00	12000.00	66.67	0.00	66.81	2.74	3.18	4012.70	7252.84
388.650	190.00	0.00	0.00	55.00	3500.00	64.35	0.00	64.38	0.86	1.40	2636.10	3767.60
388.650	190.00	0.00	0.00	55.00	1000.00	61.43	0.00	61.44	1.16	0.96	1069.33	930.28
391.350	160.00	0.00	0.00	55.00	30000.00	70.91	63.26	71.21	2.84	4.53	7007.62	17794.38
391.350	160.00	0.00	0.00	55.00	20000.00	68.83	0.00	69.03	2.41	3.71	5699.04	12878.44
391.350	160.00	0.00	0.00	55.00	17000.00	68.12	0.00	68.29	2.24	3.41	5259.11	11359.04
391.350	160.00	0.00	0.00	55.00	12000.00	66.73	0.00	66.85	1.93	2.86	4409.83	8634.20
391.350	160.00	0.00	0.00	55.00	3500.00	64.36	0.00	64.39	0.53	1.20	3006.31	4810.82
391.350	160.00	0.00	0.00	55.00	1000.00	61.45	0.00	61.45	0.40	0.68	1498.78	1589.71
392.210	185.00	0.00	0.00	55.00	30000.00	70.95	63.47	71.28	3.20	4.75	6703.64	16762.80
392.210	185.00	0.00	0.00	55.00	20000.00	68.86	0.00	69.09	2.77	3.91	5377.19	12014.78
392.210	185.00	0.00	0.00	55.00	17000.00	68.15	0.00	68.34	2.59	3.60	4932.88	10562.80
392.210	185.00	0.00	0.00	55.00	12000.00	66.75	0.00	66.89	2.25	3.02	4084.10	8008.39
392.210	185.00	0.00	0.00	55.00	3500.00	64.37	0.00	64.40	0.61	1.25	2815.72	4496.00
392.210	185.00	0.00	0.00	55.00	1000.00	61.45	0.00	61.46	0.41	0.70	1418.62	1566.82
394.000	175.00	0.00	0.00	55.00	30000.00	70.54	67.88	71.60	15.93	8.81	3874.56	7516.16
394.000	175.00	0.00	0.00	55.00	20000.00	68.42	0.00	69.43	19.66	8.26	2605.96	4510.19
394.000	175.00	0.00	0.00	55.00	17000.00	67.73	0.00	68.66	20.45	7.88	2247.33	3759.54
394.000	175.00	0.00	0.00	55.00	12000.00	66.41	0.00	67.17	21.67	7.00	1748.02	2577.85
394.000	175.00	0.00	0.00	55.00	3500.00	64.30	0.00	64.46	6.21	3.30	1082.86	1404.07
394.000	175.00	0.00	0.00	55.00	1000.00	61.43	0.00	61.49	1.84	2.02	537.46	736.58
395.550	160.00	0.00	0.00	55.00	30000.00	71.29	64.81	71.79	5.05	5.88	5425.04	13351.10
395.550	160.00	0.00	0.00	55.00	20000.00	69.28	0.00	69.62	4.32	4.82	4379.49	9621.43
395.550	160.00	0.00	0.00	55.00	17000.00	68.56	0.00	68.85	4.06	4.45	4024.12	8438.36
395.550	160.00	0.00	0.00	55.00	12000.00	67.13	0.00	67.34	3.62	3.77	3329.68	6304.12
395.550	160.00	0.00	0.00	55.00	3500.00	64.47	0.00	64.51	1.24	1.69	2116.47	3143.52
395.550	160.00	0.00	0.00	55.00	1000.00	61.50	0.00	61.52	1.25	1.08	938.06	894.78
396.550	95.00	0.00	0.00	55.00	30000.00	71.43	64.23	71.84	3.90	5.31	5905.10	15199.81
396.550	95.00	0.00	0.00	55.00	20000.00	69.39	0.00	69.66	3.22	4.30	4835.42	11150.90
396.550	95.00	0.00	0.00	55.00	17000.00	68.66	0.00	68.89	2.98	3.95	4469.64	9848.45
396.550	95.00	0.00	0.00	55.00	12000.00	67.21	0.00	67.37	2.60	3.32	3740.66	7440.29
396.550	95.00	0.00	0.00	55.00	3500.00	64.49	0.00	64.53	0.84	1.46	2444.53	3808.20
396.550	95.00	0.00	0.00	55.00	1000.00	61.52	0.00	61.53	0.80	0.87	1148.42	1118.40
397.250	65.00	0.00	0.00	60.00	30000.00	71.43	66.59	71.87	2.81	5.33	5624.93	17882.25
397.250	65.00	0.00	0.00	60.00	20000.00	69.37	0.00	69.70	2.99	4.62	4327.20	11574.83
397.250	65.00	0.00	0.00	60.00	17000.00	68.63	0.00	68.93	3.14	4.40	3863.25	9588.75
397.250	65.00	0.00	0.00	60.00	12000.00	67.16	0.00	67.42	3.89	4.08	2937.81	6084.40
397.250	65.00	0.00	0.00	60.00	3500.00	64.45	0.00	64.56	3.26	2.62	1336.96	1937.93
397.250	65.00	0.00	0.00	60.00	1000.00	61.36	0.00	61.62	27.32	4.05	246.69	191.32

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	398.150	85.00	0.00	0.00	60.00	30000.00	70.55	68.73	72.33	32.07	10.85	2845.84	5297.81
	398.150	85.00	0.00	0.00	60.00	20000.00	68.68	0.00	70.08	32.43	9.59	2130.61	3512.08
	398.150	85.00	0.00	0.00	60.00	17000.00	68.02	0.00	69.29	33.06	9.13	1898.34	2956.47
	398.150	85.00	0.00	0.00	60.00	12000.00	66.66	0.00	67.75	37.32	8.43	1447.75	1964.34
	398.150	85.00	0.00	0.00	60.00	3500.00	64.34	0.00	64.69	24.85	4.75	744.67	702.08
*	398.150	85.00	0.00	0.00	60.00	1000.00	61.48	61.48	62.19	118.06	6.78	147.71	92.03
	399.450	125.00	0.00	0.00	60.00	30000.00	71.68	68.30	72.66	13.66	8.09	3903.61	8115.86
	399.450	125.00	0.00	0.00	60.00	20000.00	69.63	0.00	70.41	14.81	7.14	2902.58	5196.99
	399.450	125.00	0.00	0.00	60.00	17000.00	68.91	0.00	69.62	15.50	6.81	2572.38	4317.43
	399.450	125.00	0.00	0.00	60.00	12000.00	67.51	0.00	68.11	17.68	6.20	1952.28	2853.83
	399.450	125.00	0.00	0.00	60.00	3500.00	64.73	0.00	64.96	17.50	3.88	904.09	836.70
	399.450	125.00	0.00	0.00	60.00	1000.00	62.49	0.00	62.69	16.91	3.60	278.46	243.16
	401.000	165.00	0.00	0.00	60.00	30000.00	72.38	66.15	72.84	4.84	5.49	5665.93	13630.63
	401.000	165.00	0.00	0.00	60.00	20000.00	70.25	0.00	70.57	4.49	4.60	4484.93	9439.28
	401.000	165.00	0.00	0.00	60.00	17000.00	69.50	0.00	69.78	4.37	4.29	4077.78	8130.22
	401.000	165.00	0.00	0.00	60.00	12000.00	68.06	0.00	68.27	4.18	3.70	3311.42	5871.58
	401.000	165.00	0.00	0.00	60.00	3500.00	65.00	0.00	65.06	2.47	1.94	1814.01	2225.54
	401.000	165.00	0.00	0.00	60.00	1000.00	62.74	0.00	62.76	1.24	1.06	943.87	899.41
	402.500	150.00	0.00	0.00	60.00	30000.00	72.37	66.49	72.96	6.42	6.32	4939.08	11840.54
	402.500	150.00	0.00	0.00	60.00	20000.00	70.26	0.00	70.68	5.87	5.26	3902.42	8257.14
	402.500	150.00	0.00	0.00	60.00	17000.00	69.52	0.00	69.88	5.61	4.89	3560.62	7178.20
	402.500	150.00	0.00	0.00	60.00	12000.00	68.09	0.00	68.35	5.07	4.19	2935.92	5331.71
	402.500	150.00	0.00	0.00	60.00	3500.00	65.03	0.00	65.10	2.48	2.14	1677.40	2224.27
	402.500	150.00	0.00	0.00	60.00	1000.00	62.76	0.00	62.78	1.96	1.25	809.44	713.61
	404.200	170.00	0.00	0.00	60.00	30000.00	71.95	69.86	73.42	24.95	10.02	3129.12	6006.59
	404.200	170.00	0.00	0.00	60.00	20000.00	69.86	0.00	71.13	30.99	9.19	2219.70	3592.63
	404.200	170.00	0.00	0.00	60.00	17000.00	69.11	0.00	70.33	35.18	8.97	1922.24	2866.27
	404.200	170.00	0.00	0.00	60.00	12000.00	67.66	0.00	68.81	42.15	8.83	1399.52	1848.40
	404.200	170.00	0.00	0.00	60.00	3500.00	64.76	0.00	65.37	34.16	6.51	575.22	598.87
	404.200	170.00	0.00	0.00	60.00	1000.00	62.63	0.00	62.96	28.26	4.68	219.50	188.10
	405.350	115.00	0.00	0.00	60.00	30000.00	72.54	70.30	73.72	22.03	8.66	3459.68	6392.14
	405.350	115.00	0.00	0.00	60.00	20000.00	70.42	0.00	71.50	30.49	8.10	2411.99	3621.76
	405.350	115.00	0.00	0.00	60.00	17000.00	69.68	0.00	70.74	32.60	8.24	2071.80	2977.20
	405.350	115.00	0.00	0.00	60.00	12000.00	68.27	0.00	69.32	43.99	8.32	1472.15	1809.32
	405.350	115.00	0.00	0.00	60.00	3500.00	65.06	0.00	65.81	35.38	7.38	520.71	588.46
	405.350	115.00	0.00	0.00	60.00	1000.00	62.96	0.00	63.24	20.38	4.36	239.35	221.53
	406.700	125.00	0.00	0.00	60.00	30000.00	73.22	68.21	73.91	7.32	7.06	4688.90	11087.72
	406.700	125.00	0.00	0.00	60.00	20000.00	71.22	0.00	71.71	6.52	5.91	3711.20	7830.68
	406.700	125.00	0.00	0.00	60.00	17000.00	70.52	0.00	70.95	6.21	5.50	3379.79	6822.59
	406.700	125.00	0.00	0.00	60.00	12000.00	69.22	0.00	69.54	5.47	4.67	2776.52	5129.50
	406.700	125.00	0.00	0.00	60.00	3500.00	65.88	0.00	65.97	3.11	2.47	1433.56	1985.89
	406.700	125.00	0.00	0.00	60.00	1000.00	63.29	0.00	63.32	1.91	1.44	702.16	723.39

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	408.000	140.00	0.00	0.00	60.00	30000.00	73.60	66.45	74.01	3.73	5.40	5973.51	15542.26
	408.000	140.00	0.00	0.00	60.00	20000.00	71.52	0.00	71.80	3.10	4.40	4886.90	11367.57
	408.000	140.00	0.00	0.00	60.00	17000.00	70.80	0.00	71.03	2.87	4.05	4514.25	10041.09
	408.000	140.00	0.00	0.00	60.00	12000.00	69.44	0.00	69.60	2.37	3.36	3836.70	7792.33
	408.000	140.00	0.00	0.00	60.00	3500.00	65.96	0.00	66.00	1.15	1.71	2163.10	3259.86
	408.000	140.00	0.00	0.00	60.00	1000.00	63.33	0.00	63.34	0.75	0.93	1081.23	1153.13
	409.250	115.00	0.00	0.00	63.00	30000.00	73.32	69.11	74.23	11.37	7.78	4016.18	8896.41
	409.250	115.00	0.00	0.00	63.00	20000.00	71.31	0.00	71.97	10.94	6.58	3114.52	6045.58
	409.250	115.00	0.00	0.00	63.00	17000.00	70.61	0.00	71.19	10.80	6.16	2816.84	5173.43
	409.250	115.00	0.00	0.00	63.00	12000.00	69.30	0.00	69.73	10.46	5.32	2285.03	3710.12
	409.250	115.00	0.00	0.00	63.00	3500.00	65.89	0.00	66.08	12.57	3.51	1003.34	987.25
*	409.250	115.00	0.00	0.00	63.00	1000.00	63.65	63.65	63.97	153.44	4.58	218.77	80.73
	410.500	125.00	0.00	0.00	65.00	30000.00	73.07	71.29	74.64	28.41	10.25	3040.09	5628.75
	410.500	125.00	0.00	0.00	65.00	20000.00	71.06	0.00	72.41	36.02	9.42	2182.20	3332.59
	410.500	125.00	0.00	0.00	65.00	17000.00	70.35	0.00	71.64	41.27	9.22	1888.51	2646.10
	410.500	125.00	0.00	0.00	65.00	12000.00	68.97	0.00	70.25	63.11	9.15	1333.01	1510.58
*	410.500	125.00	0.00	0.00	65.00	3500.00	66.83	66.83	67.55	117.82	6.83	514.91	322.45
*	410.500	125.00	0.00	0.00	65.00	1000.00	65.94	65.94	66.29	148.56	4.71	212.98	82.05
	411.250	75.00	0.00	0.00	67.00	30000.00	72.89	72.74	75.16	64.85	12.49	2524.06	3725.20
*	411.250	75.00	0.00	0.00	67.00	20000.00	71.57	71.57	73.44	76.40	11.30	1856.18	2288.18
*	411.250	75.00	0.00	0.00	67.00	17000.00	71.17	71.17	72.87	78.73	10.74	1659.77	1915.95
*	411.250	75.00	0.00	0.00	67.00	12000.00	70.47	70.47	71.82	81.96	9.56	1315.29	1325.53
*	411.250	75.00	0.00	0.00	67.00	3500.00	68.76	68.76	69.42	112.54	6.58	540.03	329.92
*	411.250	75.00	0.00	0.00	67.00	1000.00	67.90	67.90	68.25	149.40	4.71	212.28	81.81
	412.250	105.00	0.00	0.00	67.00	30000.00	74.61	72.04	75.61	18.17	8.17	3761.70	7037.63
	412.250	105.00	0.00	0.00	67.00	20000.00	73.19	0.00	73.88	16.36	6.76	3020.47	4944.88
	412.250	105.00	0.00	0.00	67.00	17000.00	72.70	0.00	73.30	15.70	6.26	2766.63	4291.03
	412.250	105.00	0.00	0.00	67.00	12000.00	71.78	0.00	72.21	14.24	5.31	2299.71	3179.67
	412.250	105.00	0.00	0.00	67.00	3500.00	69.59	0.00	69.72	9.89	2.94	1208.71	1112.67
	412.250	105.00	0.00	0.00	67.00	1000.00	68.42	0.00	68.46	6.01	1.54	655.10	407.86
	413.250	100.00	0.00	0.00	67.00	30000.00	75.27	71.24	75.78	8.15	5.79	5304.56	10508.02
	413.250	100.00	0.00	0.00	67.00	20000.00	73.67	0.00	74.02	7.61	4.84	4204.79	7247.76
	413.250	100.00	0.00	0.00	67.00	17000.00	73.12	0.00	73.43	7.35	4.49	3845.05	6270.51
	413.250	100.00	0.00	0.00	67.00	12000.00	72.10	0.00	72.33	6.81	3.83	3177.23	4598.80
	413.250	100.00	0.00	0.00	67.00	3500.00	69.73	0.00	69.80	4.87	2.13	1658.50	1585.57
	413.250	100.00	0.00	0.00	67.00	1000.00	68.48	0.00	68.50	3.13	1.14	885.67	565.35
	414.550	125.00	0.00	0.00	67.00	30000.00	75.27	71.51	75.95	10.80	6.59	4550.11	9127.67
	414.550	125.00	0.00	0.00	67.00	20000.00	73.71	0.00	74.16	9.63	5.42	3688.11	6443.88
	414.550	125.00	0.00	0.00	67.00	17000.00	73.17	0.00	73.56	9.20	5.01	3391.12	5606.13
	414.550	125.00	0.00	0.00	67.00	12000.00	72.16	0.00	72.44	8.28	4.23	2837.56	4170.55
	414.550	125.00	0.00	0.00	67.00	3500.00	69.78	0.00	69.86	5.48	2.29	1530.63	1495.02
	414.550	125.00	0.00	0.00	67.00	1000.00	68.52	0.00	68.54	3.30	1.19	839.87	550.65

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	416.050	155.00	0.00	0.00	67.00	30000.00	75.45	71.65	76.11	10.39	6.62	4644.68	9308.95
	416.050	155.00	0.00	0.00	67.00	20000.00	73.85	0.00	74.31	9.42	5.48	3725.70	6515.56
	416.050	155.00	0.00	0.00	67.00	17000.00	73.31	0.00	73.70	9.02	5.07	3416.37	5660.09
	416.050	155.00	0.00	0.00	67.00	12000.00	72.28	0.00	72.57	8.19	4.30	2841.88	4194.02
	416.050	155.00	0.00	0.00	67.00	3500.00	69.87	0.00	69.95	5.48	2.34	1513.78	1494.51
	416.050	155.00	0.00	0.00	67.00	1000.00	68.57	0.00	68.59	3.41	1.23	816.43	541.53
	417.300	120.00	0.00	0.00	67.00	30000.00	75.54	71.98	76.26	11.19	6.92	4489.33	8969.81
	417.300	120.00	0.00	0.00	67.00	20000.00	73.94	0.00	74.44	10.27	5.78	3571.78	6240.05
	417.300	120.00	0.00	0.00	67.00	17000.00	73.39	0.00	73.82	9.90	5.37	3262.45	5403.10
	417.300	120.00	0.00	0.00	67.00	12000.00	72.36	0.00	72.68	9.01	4.56	2699.50	3998.86
	417.300	120.00	0.00	0.00	67.00	3500.00	69.93	0.00	70.02	6.10	2.51	1416.30	1416.89
	417.300	120.00	0.00	0.00	67.00	1000.00	68.61	0.00	68.64	3.76	1.32	764.20	515.71
	418.450	120.00	0.00	0.00	67.00	30000.00	75.46	72.58	76.53	17.25	8.45	3687.10	7223.57
	418.450	120.00	0.00	0.00	67.00	20000.00	73.92	0.00	74.66	15.43	6.98	2950.15	5091.88
	418.450	120.00	0.00	0.00	67.00	17000.00	73.39	0.00	74.03	14.71	6.46	2702.04	4431.94
	418.450	120.00	0.00	0.00	67.00	12000.00	72.40	0.00	72.85	13.20	5.46	2245.72	3302.62
	418.450	120.00	0.00	0.00	67.00	3500.00	69.99	0.00	70.12	8.55	2.95	1199.60	1196.90
	418.450	120.00	0.00	0.00	67.00	1000.00	68.66	0.00	68.69	5.50	1.57	640.45	426.45
	419.550	115.00	0.00	0.00	67.00	30000.00	75.86	72.64	76.72	13.47	7.79	4117.37	8175.33
	419.550	115.00	0.00	0.00	67.00	20000.00	74.21	0.00	74.83	12.79	6.61	3216.85	5592.66
	419.550	115.00	0.00	0.00	67.00	17000.00	73.64	0.00	74.19	12.39	6.16	2921.66	4828.65
	419.550	115.00	0.00	0.00	67.00	12000.00	72.59	0.00	73.00	11.46	5.28	2389.32	3545.18
	419.550	115.00	0.00	0.00	67.00	3500.00	70.08	0.00	70.22	8.02	2.97	1211.96	1235.80
	419.550	115.00	0.00	0.00	67.00	1000.00	68.72	0.00	68.75	4.98	1.58	644.43	447.89
	420.650	110.00	0.00	0.00	67.00	30000.00	75.84	73.28	76.98	18.10	9.01	3575.42	7050.65
	420.650	110.00	0.00	0.00	67.00	20000.00	74.23	0.00	75.05	17.10	7.66	2810.48	4835.95
	420.650	110.00	0.00	0.00	67.00	17000.00	73.68	0.00	74.40	16.65	7.17	2552.54	4166.17
	420.650	110.00	0.00	0.00	67.00	12000.00	72.64	0.00	73.18	15.58	6.19	2081.15	3040.49
	420.650	110.00	0.00	0.00	67.00	3500.00	70.15	0.00	70.34	11.60	3.62	1009.88	1027.58
	420.650	110.00	0.00	0.00	67.00	1000.00	68.77	0.00	68.82	6.94	1.91	536.42	379.46
	422.300	160.00	0.00	0.00	67.00	30000.00	75.82	73.81	77.48	26.43	10.66	2948.81	5834.89
	422.300	160.00	0.00	0.00	67.00	20000.00	74.33	0.00	75.46	23.05	8.76	2376.47	4166.10
	422.300	160.00	0.00	0.00	67.00	17000.00	73.81	0.00	74.77	21.81	8.09	2181.02	3640.25
	422.300	160.00	0.00	0.00	67.00	12000.00	72.81	0.00	73.50	19.36	6.83	1816.95	2727.17
	422.300	160.00	0.00	0.00	67.00	3500.00	70.33	0.00	70.54	12.99	3.77	954.95	971.21
	422.300	160.00	0.00	0.00	67.00	1000.00	68.89	0.00	68.95	9.26	2.08	488.05	328.71
*	423.650	140.00	0.00	0.00	69.00	30000.00	75.49	75.49	78.61	69.19	14.34	2142.21	3606.55
*	423.650	140.00	0.00	0.00	69.00	20000.00	73.97	73.97	76.39	76.09	12.59	1617.93	2292.78
	423.650	140.00	0.00	0.00	69.00	17000.00	73.50	73.47	75.65	77.02	11.86	1458.21	1937.08
	423.650	140.00	0.00	0.00	69.00	12000.00	72.59	72.55	74.29	81.97	10.53	1155.02	1325.39
*	423.650	140.00	0.00	0.00	69.00	3500.00	70.58	70.58	71.35	111.95	7.10	496.12	330.80
*	423.650	140.00	0.00	0.00	69.00	1000.00	69.68	69.68	70.03	149.23	4.70	213.46	81.86

DESIGN CONDITIONS(5B)

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	314.630	30000.00	52.78	0.00	0.00	0.00	1250.00	0.00
*	314.630	20000.00	50.63	-2.15	0.00	0.00	1250.00	0.00
*	314.630	17000.00	50.39	-0.24	0.00	0.00	1250.00	0.00
*	314.630	12000.00	50.00	-0.39	0.00	0.00	1250.00	0.00
*	314.630	3500.00	48.63	-1.37	0.00	0.00	715.00	0.00
	314.630	1000.00	47.10	-1.53	0.00	0.00	100.00	0.00
	319.760	30000.00	53.51	0.00	0.73	0.00	986.72	510.00
	319.760	20000.00	52.50	-1.01	1.87	0.00	976.95	510.00
	319.760	17000.00	52.18	-0.32	1.78	0.00	952.95	510.00
	319.760	12000.00	51.52	-0.66	1.52	0.00	881.80	510.00
	319.760	3500.00	50.42	-1.09	1.79	-3.08	168.44	510.00
	319.760	1000.00	48.53	-1.90	1.43	-4.98	130.54	510.00
	326.350	30000.00	54.40	0.00	0.89	0.00	997.99	650.00
	326.350	20000.00	53.28	-1.12	0.78	0.00	979.82	650.00
	326.350	17000.00	52.89	-0.38	0.72	0.00	906.26	650.00
	326.350	12000.00	52.13	-0.77	0.61	0.00	854.01	650.00
	326.350	3500.00	52.55	0.43	2.13	-1.84	177.91	650.00
	326.350	1000.00	50.25	-2.31	1.72	-4.15	145.96	650.00
	332.150	30000.00	55.09	0.00	0.69	0.00	859.59	575.00
	332.150	20000.00	53.91	-1.18	0.63	0.00	829.78	575.00
	332.150	17000.00	53.50	-0.41	0.60	0.00	817.44	575.00
	332.150	12000.00	52.67	-0.83	0.54	0.00	792.83	575.00
	332.150	3500.00	53.97	1.30	1.42	-1.11	229.69	575.00
*	332.150	1000.00	52.52	-1.46	2.27	-2.57	207.77	575.00
*	336.200	30000.00	56.02	0.00	0.93	0.00	805.30	405.00
*	336.200	20000.00	55.17	-0.84	1.26	0.00	789.81	405.00
*	336.200	17000.00	54.89	-0.28	1.39	0.00	784.67	405.00
*	336.200	12000.00	54.48	-0.42	1.81	0.00	777.04	405.00
	336.200	3500.00	55.95	1.47	1.97	-0.07	249.55	405.00
	336.200	1000.00	54.53	-1.41	2.01	-1.48	237.71	405.00
	341.600	30000.00	60.06	0.00	4.05	0.00	875.00	535.00
	341.600	20000.00	59.20	-0.86	4.03	0.00	875.00	535.00
	341.600	17000.00	58.90	-0.30	4.01	0.00	765.57	535.00
	341.600	12000.00	58.26	-0.65	3.78	0.00	735.26	535.00
*	341.600	3500.00	58.41	0.16	2.46	-1.65	162.15	535.00
*	341.600	1000.00	56.86	-1.55	2.33	-3.20	138.66	535.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
346.950	30000.00	62.29	0.00	2.23	0.00	992.48	535.00
346.950	20000.00	61.16	-1.13	1.96	0.00	988.45	535.00
346.950	17000.00	60.77	-0.39	1.86	0.00	963.44	535.00
346.950	12000.00	60.01	-0.75	1.76	0.00	917.63	535.00
346.950	3500.00	60.88	0.86	2.46	-1.42	173.71	535.00
346.950	1000.00	58.63	-2.25	1.77	-3.67	134.82	535.00
351.180	30000.00	62.84	0.00	0.55	0.00	996.14	420.00
351.180	20000.00	61.71	-1.13	0.55	0.00	966.73	420.00
351.180	17000.00	61.32	-0.39	0.55	0.00	951.41	420.00
351.180	12000.00	60.58	-0.74	0.56	0.00	915.08	420.00
351.180	3500.00	61.53	0.95	0.65	-1.31	161.75	420.00
351.180	1000.00	59.15	-2.38	0.52	-3.69	134.63	420.00
356.690	30000.00	64.05	0.00	1.21	0.00	1096.46	545.00
356.690	20000.00	62.91	-1.14	1.20	0.00	1071.44	545.00
356.690	17000.00	62.51	-0.40	1.19	0.00	1039.83	545.00
356.690	12000.00	61.78	-0.73	1.20	0.00	968.88	545.00
356.690	3500.00	62.71	0.93	1.18	-1.34	222.24	545.00
356.690	1000.00	60.34	-2.36	1.19	-3.71	157.29	545.00
360.850	30000.00	64.05	0.00	0.00	0.00	638.15	415.00
360.850	20000.00	63.12	-0.93	0.21	0.00	623.72	415.00
360.850	17000.00	62.78	-0.35	0.27	0.00	608.04	415.00
360.850	12000.00	62.11	-0.67	0.33	0.00	566.50	415.00
360.850	3500.00	63.19	1.08	0.48	-0.86	147.95	415.00
360.850	1000.00	60.77	-2.42	0.43	-3.28	122.72	415.00
365.100	30000.00	66.37	0.00	2.31	0.00	846.73	420.00
365.100	20000.00	64.97	-1.40	1.85	0.00	822.92	420.00
365.100	17000.00	64.49	-0.48	1.71	0.00	814.78	420.00
365.100	12000.00	63.57	-0.91	1.47	0.00	799.25	420.00
365.100	3500.00	63.67	0.10	0.48	-2.70	310.97	420.00
365.100	1000.00	60.97	-2.70	0.19	-5.40	275.17	420.00
367.080	30000.00	66.65	0.00	0.28	0.00	945.52	200.00
367.080	20000.00	65.22	-1.43	0.26	0.00	903.46	200.00
367.080	17000.00	64.74	-0.49	0.25	0.00	865.75	200.00
367.080	12000.00	63.83	-0.91	0.25	0.00	824.80	200.00
367.080	3500.00	63.70	-0.13	0.03	-2.95	214.98	200.00
367.080	1000.00	61.03	-2.67	0.07	-5.62	214.92	200.00
367.180	30000.00	66.64	0.00	-0.01	0.00	927.08	10.00
367.180	20000.00	65.20	-1.44	-0.02	0.00	884.88	10.00
367.180	17000.00	64.71	-0.49	-0.03	0.00	846.76	10.00
367.180	12000.00	63.79	-0.92	-0.03	0.00	803.97	10.00
367.180	3500.00	63.69	-0.11	-0.02	-2.95	196.99	10.00
367.180	1000.00	61.03	-2.66	0.00	-5.61	196.90	10.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
367.980	30000.00	66.87	0.00	0.23	0.00	935.50	80.00
367.980	20000.00	65.51	-1.37	0.30	0.00	892.26	80.00
367.980	17000.00	65.04	-0.47	0.33	0.00	880.98	80.00
367.980	12000.00	64.22	-0.81	0.43	0.00	828.34	80.00
367.980	3500.00	63.75	-0.48	0.06	-3.12	196.99	80.00
367.980	1000.00	61.11	-2.64	0.08	-5.76	196.91	80.00
368.220	30000.00	66.79	0.00	-0.08	0.00	759.65	30.00
368.220	20000.00	65.50	-1.29	-0.01	0.00	717.14	30.00
368.220	17000.00	65.06	-0.44	0.02	0.00	702.78	30.00
368.220	12000.00	64.32	-0.74	0.10	0.00	587.74	30.00
368.220	3500.00	63.98	-0.34	0.24	-2.81	239.95	30.00
368.220	1000.00	61.23	-2.75	0.13	-5.56	226.18	30.00
369.300	30000.00	67.36	0.00	0.57	0.00	818.78	100.00
369.300	20000.00	65.91	-1.44	0.42	0.00	812.56	100.00
369.300	17000.00	65.41	-0.51	0.35	0.00	810.39	100.00
369.300	12000.00	64.52	-0.89	0.19	0.00	742.62	100.00
369.300	3500.00	63.99	-0.53	0.00	-3.37	307.44	100.00
369.300	1000.00	61.23	-2.75	0.00	-6.13	229.48	100.00
370.210	30000.00	67.39	0.00	0.03	0.00	771.99	100.00
370.210	20000.00	65.96	-1.43	0.04	0.00	764.82	100.00
370.210	17000.00	65.45	-0.50	0.04	0.00	762.30	100.00
370.210	12000.00	64.56	-0.90	0.04	0.00	700.23	100.00
370.210	3500.00	63.98	-0.58	-0.01	-3.41	284.56	100.00
370.210	1000.00	61.23	-2.75	0.00	-6.16	215.18	100.00
372.000	30000.00	67.26	0.00	-0.13	0.00	667.06	180.00
372.000	20000.00	65.89	-1.36	-0.06	0.00	655.58	180.00
372.000	17000.00	65.43	-0.46	-0.02	0.00	651.66	180.00
372.000	12000.00	64.63	-0.80	0.07	0.00	577.94	180.00
372.000	3500.00	64.05	-0.58	0.07	-3.21	235.54	180.00
372.000	1000.00	61.27	-2.77	0.04	-5.98	207.88	180.00
374.350	30000.00	67.66	0.00	0.40	0.00	471.03	190.00
374.350	20000.00	66.51	-1.14	0.62	0.00	466.30	190.00
374.350	17000.00	66.07	-0.44	0.64	0.00	464.46	190.00
374.350	12000.00	65.16	-0.91	0.53	0.00	460.65	190.00
374.350	3500.00	64.10	-1.06	0.06	-3.55	280.71	190.00
374.350	1000.00	61.29	-2.81	0.02	-6.36	251.78	190.00
375.200	30000.00	67.18	0.00	-0.48	0.00	416.92	85.00
375.200	20000.00	66.27	-0.91	-0.24	0.00	413.53	85.00
375.200	17000.00	65.88	-0.39	-0.19	0.00	412.05	85.00
375.200	12000.00	65.05	-0.83	-0.11	0.00	408.92	85.00
375.200	3500.00	64.09	-0.95	-0.01	-3.08	212.18	85.00
375.200	1000.00	61.30	-2.80	0.01	-5.88	182.79	85.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
377.050	30000.00	69.57	0.00	2.39	0.00	472.76	165.00
377.050	20000.00	67.76	-1.81	1.49	0.00	470.35	165.00
377.050	17000.00	67.14	-0.61	1.27	0.00	469.52	165.00
377.050	12000.00	65.95	-1.19	0.91	0.00	395.91	165.00
377.050	3500.00	64.21	-1.75	0.11	-5.36	346.24	165.00
377.050	1000.00	61.33	-2.88	0.03	-8.24	326.54	165.00
379.380	30000.00	69.36	0.00	-0.21	0.00	468.44	230.00
379.380	20000.00	67.57	-1.79	-0.19	0.00	461.61	230.00
379.380	17000.00	66.96	-0.60	-0.18	0.00	349.14	230.00
379.380	12000.00	65.83	-1.14	-0.13	0.00	339.08	230.00
379.380	3500.00	64.18	-1.64	-0.02	-5.18	325.92	230.00
379.380	1000.00	61.32	-2.87	-0.01	-8.05	201.89	230.00
380.850	30000.00	70.05	0.00	0.69	0.00	563.52	140.00
380.850	20000.00	68.12	-1.93	0.55	0.00	508.10	140.00
380.850	17000.00	67.49	-0.64	0.52	0.00	386.34	140.00
380.850	12000.00	66.22	-1.26	0.40	0.00	375.29	140.00
380.850	3500.00	64.25	-1.97	0.07	-5.80	320.00	140.00
380.850	1000.00	61.35	-2.90	0.04	-8.70	297.84	140.00
383.100	30000.00	70.40	0.00	0.35	0.00	543.55	220.00
383.100	20000.00	68.40	-2.00	0.28	0.00	512.76	220.00
383.100	17000.00	67.72	-0.68	0.23	0.00	502.37	220.00
383.100	12000.00	66.38	-1.34	0.16	0.00	487.19	220.00
383.100	3500.00	64.27	-2.10	0.02	-6.12	449.42	220.00
383.100	1000.00	61.36	-2.92	0.01	-9.04	395.79	220.00
385.000	30000.00	70.49	0.00	0.10	0.00	575.14	170.00
385.000	20000.00	68.47	-2.02	0.07	0.00	557.35	170.00
385.000	17000.00	67.79	-0.69	0.07	0.00	551.27	170.00
385.000	12000.00	66.43	-1.35	0.05	0.00	539.34	170.00
385.000	3500.00	64.29	-2.15	0.01	-6.21	468.04	170.00
385.000	1000.00	61.37	-2.92	0.01	-9.12	406.89	170.00
386.750	30000.00	70.58	0.00	0.08	0.00	624.47	170.00
386.750	20000.00	68.54	-2.04	0.07	0.00	606.53	170.00
386.750	17000.00	67.85	-0.69	0.06	0.00	539.10	170.00
386.750	12000.00	66.49	-1.35	0.06	0.00	515.12	170.00
386.750	3500.00	64.30	-2.19	0.02	-6.27	456.13	170.00
386.750	1000.00	61.39	-2.91	0.02	-9.18	360.02	170.00
388.650	30000.00	70.83	0.00	0.26	0.00	660.54	190.00
388.650	20000.00	68.76	-2.07	0.22	0.00	635.17	190.00
388.650	17000.00	68.05	-0.71	0.21	0.00	626.48	190.00
388.650	12000.00	66.67	-1.39	0.17	0.00	609.47	190.00
388.650	3500.00	64.35	-2.32	0.04	-6.49	570.62	190.00
388.650	1000.00	61.43	-2.92	0.04	-9.41	480.40	190.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
391.350	30000.00	70.91	0.00	0.08	0.00	638.94	160.00
391.350	20000.00	68.83	-2.08	0.07	0.00	621.54	160.00
391.350	17000.00	68.12	-0.71	0.07	0.00	615.59	160.00
391.350	12000.00	66.73	-1.40	0.06	0.00	603.92	160.00
391.350	3500.00	64.36	-2.36	0.02	-6.55	584.13	160.00
391.350	1000.00	61.45	-2.92	0.02	-9.47	489.86	160.00
392.210	30000.00	70.95	0.00	0.04	0.00	647.31	185.00
392.210	20000.00	68.86	-2.08	0.03	0.00	625.72	185.00
392.210	17000.00	68.15	-0.71	0.03	0.00	618.32	185.00
392.210	12000.00	66.75	-1.40	0.03	0.00	603.93	185.00
392.210	3500.00	64.37	-2.38	0.01	-6.57	494.83	185.00
392.210	1000.00	61.45	-2.92	0.01	-9.49	431.99	185.00
394.000	30000.00	70.54	0.00	-0.41	0.00	609.21	175.00
394.000	20000.00	68.42	-2.12	-0.44	0.00	587.60	175.00
394.000	17000.00	67.73	-0.69	-0.42	0.00	392.62	175.00
394.000	12000.00	66.41	-1.32	-0.35	0.00	365.58	175.00
394.000	3500.00	64.30	-2.11	-0.07	-6.24	271.09	175.00
394.000	1000.00	61.43	-2.87	-0.02	-9.11	137.20	175.00
395.550	30000.00	71.29	0.00	0.74	0.00	540.22	160.00
395.550	20000.00	69.28	-2.01	0.86	0.00	500.53	160.00
395.550	17000.00	68.56	-0.72	0.83	0.00	490.95	160.00
395.550	12000.00	67.13	-1.43	0.72	0.00	477.69	160.00
395.550	3500.00	64.47	-2.66	0.17	-6.82	409.83	160.00
395.550	1000.00	61.50	-2.97	0.07	-9.79	350.56	160.00
396.550	30000.00	71.43	0.00	0.14	0.00	578.36	95.00
396.550	20000.00	69.39	-2.04	0.11	0.00	507.98	95.00
396.550	17000.00	68.66	-0.73	0.10	0.00	503.71	95.00
396.550	12000.00	67.21	-1.45	0.08	0.00	495.07	95.00
396.550	3500.00	64.49	-2.72	0.02	-6.93	451.50	95.00
396.550	1000.00	61.52	-2.98	0.02	-9.91	420.08	95.00
397.250	30000.00	71.43	0.00	0.00	0.00	630.08	65.00
397.250	20000.00	69.37	-2.06	-0.02	0.00	630.05	65.00
397.250	17000.00	68.63	-0.74	-0.03	0.00	630.04	65.00
397.250	12000.00	67.16	-1.47	-0.05	0.00	630.02	65.00
397.250	3500.00	64.45	-2.71	-0.04	-6.98	490.56	65.00
397.250	1000.00	61.36	-3.09	-0.16	-10.07	231.28	65.00
398.150	30000.00	70.55	0.00	-0.88	0.00	430.31	85.00
398.150	20000.00	68.68	-1.87	-0.69	0.00	353.69	85.00
398.150	17000.00	68.02	-0.67	-0.62	0.00	343.14	85.00
398.150	12000.00	66.66	-1.36	-0.50	0.00	321.69	85.00
398.150	3500.00	64.34	-2.32	-0.11	-6.21	285.00	85.00
398.150	1000.00	61.48	-2.86	0.12	-9.07	104.55	85.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
399.450	30000.00	71.68	0.00	1.13	0.00	501.39	125.00
399.450	20000.00	69.63	-2.05	0.95	0.00	456.81	125.00
399.450	17000.00	68.91	-0.73	0.89	0.00	453.34	125.00
399.450	12000.00	67.51	-1.40	0.85	0.00	414.51	125.00
399.450	3500.00	64.73	-2.79	0.38	-6.96	352.02	125.00
399.450	1000.00	62.49	-2.24	1.01	-9.19	118.69	125.00
401.000	30000.00	72.38	0.00	0.70	0.00	563.97	165.00
401.000	20000.00	70.25	-2.13	0.62	0.00	544.80	165.00
401.000	17000.00	69.50	-0.75	0.60	0.00	537.78	165.00
401.000	12000.00	68.06	-1.44	0.55	0.00	524.07	165.00
401.000	3500.00	65.00	-3.05	0.28	-7.38	465.76	165.00
401.000	1000.00	62.74	-2.26	0.25	-9.64	354.55	165.00
402.500	30000.00	72.37	0.00	-0.02	0.00	502.51	150.00
402.500	20000.00	70.26	-2.10	0.01	0.00	482.52	150.00
402.500	17000.00	69.52	-0.74	0.02	0.00	444.68	150.00
402.500	12000.00	68.09	-1.43	0.03	0.00	428.78	150.00
402.500	3500.00	65.03	-3.06	0.03	-7.34	394.82	150.00
402.500	1000.00	62.76	-2.27	0.02	-9.61	361.18	150.00
404.200	30000.00	71.95	0.00	-0.42	0.00	457.43	170.00
404.200	20000.00	69.86	-2.09	-0.41	0.00	397.54	170.00
404.200	17000.00	69.11	-0.75	-0.41	0.00	388.63	170.00
404.200	12000.00	67.66	-1.45	-0.43	0.00	342.77	170.00
404.200	3500.00	64.76	-2.89	-0.27	-7.18	205.48	170.00
404.200	1000.00	62.63	-2.14	-0.14	-9.32	113.83	170.00
405.350	30000.00	72.54	0.00	0.59	0.00	509.69	115.00
405.350	20000.00	70.42	-2.12	0.57	0.00	480.78	115.00
405.350	17000.00	69.68	-0.74	0.57	0.00	441.40	115.00
405.350	12000.00	68.27	-1.42	0.61	0.00	401.93	115.00
405.350	3500.00	65.06	-3.21	0.30	-7.48	182.94	115.00
405.350	1000.00	62.96	-2.10	0.34	-9.58	96.60	115.00
406.700	30000.00	73.22	0.00	0.68	0.00	500.41	125.00
406.700	20000.00	71.22	-2.00	0.80	0.00	478.44	125.00
406.700	17000.00	70.52	-0.70	0.84	0.00	470.76	125.00
406.700	12000.00	69.22	-1.30	0.95	0.00	456.44	125.00
406.700	3500.00	65.88	-3.34	0.82	-7.34	312.06	125.00
406.700	1000.00	63.29	-2.59	0.33	-9.93	235.32	125.00
408.000	30000.00	73.60	0.00	0.38	0.00	532.40	140.00
408.000	20000.00	71.52	-2.08	0.30	0.00	513.71	140.00
408.000	17000.00	70.80	-0.73	0.28	0.00	507.14	140.00
408.000	12000.00	69.44	-1.36	0.22	0.00	495.25	140.00
408.000	3500.00	65.96	-3.48	0.08	-7.64	465.64	140.00
408.000	1000.00	63.33	-2.63	0.04	-10.27	344.93	140.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	409.250	30000.00	73.32	0.00	-0.28	0.00	465.30	115.00
	409.250	20000.00	71.31	-2.01	-0.21	0.00	430.89	115.00
	409.250	17000.00	70.61	-0.70	-0.18	0.00	417.74	115.00
	409.250	12000.00	69.30	-1.31	-0.14	0.00	393.15	115.00
	409.250	3500.00	65.89	-3.41	-0.07	-7.43	360.25	115.00
*	409.250	1000.00	63.65	-2.24	0.32	-9.67	340.67	115.00
	410.500	30000.00	73.07	0.00	-0.25	0.00	438.83	125.00
	410.500	20000.00	71.06	-2.01	-0.25	0.00	416.77	125.00
	410.500	17000.00	70.35	-0.71	-0.26	0.00	408.95	125.00
	410.500	12000.00	68.97	-1.38	-0.33	0.00	393.72	125.00
*	410.500	3500.00	66.83	-2.14	0.95	-6.24	363.39	125.00
*	410.500	1000.00	65.94	-0.89	2.30	-7.13	310.96	125.00
	411.250	30000.00	72.89	0.00	-0.18	0.00	515.47	75.00
*	411.250	20000.00	71.57	-1.32	0.51	0.00	497.00	75.00
*	411.250	17000.00	71.17	-0.40	0.82	0.00	491.44	75.00
*	411.250	12000.00	70.47	-0.71	1.49	0.00	481.52	75.00
*	411.250	3500.00	68.76	-1.71	1.92	-4.13	412.77	75.00
*	411.250	1000.00	67.90	-0.85	1.96	-4.98	309.28	75.00
	412.250	30000.00	74.61	0.00	1.72	0.00	531.44	105.00
	412.250	20000.00	73.19	-1.42	1.62	0.00	518.74	105.00
	412.250	17000.00	72.70	-0.49	1.53	0.00	514.31	105.00
	412.250	12000.00	71.78	-0.92	1.32	0.00	506.08	105.00
	412.250	3500.00	69.59	-2.19	0.84	-5.02	484.49	105.00
	412.250	1000.00	68.42	-1.17	0.51	-6.19	469.01	105.00
	413.250	30000.00	75.27	0.00	0.66	0.00	725.00	100.00
	413.250	20000.00	73.67	-1.61	0.48	0.00	666.63	100.00
	413.250	17000.00	73.12	-0.55	0.42	0.00	661.21	100.00
	413.250	12000.00	72.10	-1.02	0.32	0.00	651.03	100.00
	413.250	3500.00	69.73	-2.38	0.14	-5.55	626.36	100.00
	413.250	1000.00	68.48	-1.25	0.06	-6.80	609.69	100.00
	414.550	30000.00	75.27	0.00	0.00	0.00	550.06	125.00
	414.550	20000.00	73.71	-1.57	0.04	-1.57	550.05	125.00
	414.550	17000.00	73.17	-0.54	0.04	-2.11	550.05	125.00
	414.550	12000.00	72.16	-1.01	0.06	-3.11	550.04	125.00
	414.550	3500.00	69.78	-2.38	0.06	-5.49	550.02	125.00
	414.550	1000.00	68.52	-1.27	0.04	-6.75	550.01	125.00
	416.050	30000.00	75.45	0.00	0.18	0.00	577.87	155.00
	416.050	20000.00	73.85	-1.60	0.15	-1.60	567.83	155.00
	416.050	17000.00	73.31	-0.55	0.14	-2.14	564.41	155.00
	416.050	12000.00	72.28	-1.02	0.13	-3.17	558.00	155.00
	416.050	3500.00	69.87	-2.42	0.08	-5.58	542.90	155.00
	416.050	1000.00	68.57	-1.30	0.05	-6.88	531.56	155.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH-
	417.300	30000.00	75.54	0.00	0.09	0.00	580.44	120.00
	417.300	20000.00	73.94	-1.60	0.09	-1.60	564.41	120.00
	417.300	17000.00	73.39	-0.55	0.08	-2.15	558.90	120.00
	417.300	12000.00	72.36	-1.03	0.08	-3.18	548.74	120.00
	417.300	3500.00	69.93	-2.44	0.06	-5.62	501.16	120.00
	417.300	1000.00	68.61	-1.32	0.04	-6.93	484.85	120.00
	418.450	30000.00	75.46	0.00	-0.08	0.00	489.77	120.00
	418.450	20000.00	73.92	-1.53	-0.02	-1.53	470.37	120.00
	418.450	17000.00	73.39	-0.53	0.00	-2.07	463.66	120.00
	418.450	12000.00	72.40	-1.00	0.03	-3.06	451.05	120.00
	418.450	3500.00	69.99	-2.41	0.06	-5.47	420.74	120.00
	418.450	1000.00	68.66	-1.33	0.05	-6.80	411.44	120.00
	419.550	30000.00	75.86	0.00	0.40	0.00	552.79	115.00
	419.550	20000.00	74.21	-1.66	0.28	-1.66	528.48	115.00
	419.550	17000.00	73.64	-0.56	0.25	-2.22	516.71	115.00
	419.550	12000.00	72.59	-1.05	0.19	-3.27	494.78	115.00
	419.550	3500.00	70.08	-2.51	0.10	-5.78	442.44	115.00
	419.550	1000.00	68.72	-1.37	0.06	-7.15	401.27	115.00
	420.650	30000.00	75.84	0.00	-0.02	0.00	481.18	110.00
	420.650	20000.00	74.23	-1.61	0.03	-1.61	467.91	110.00
	420.650	17000.00	73.68	-0.55	0.04	-2.17	461.49	110.00
	420.650	12000.00	72.64	-1.04	0.05	-3.20	446.96	110.00
	420.650	3500.00	70.15	-2.49	0.06	-5.70	412.04	110.00
	420.650	1000.00	68.77	-1.38	0.05	-7.08	324.45	110.00
	422.300	30000.00	75.82	0.00	-0.02	0.00	391.66	160.00
	422.300	20000.00	74.33	-1.49	0.10	-1.49	376.09	160.00
	422.300	17000.00	73.81	-0.52	0.13	-2.01	370.63	160.00
	422.300	12000.00	72.81	-1.00	0.17	-3.01	360.22	160.00
	422.300	3500.00	70.33	-2.48	0.18	-5.49	334.31	160.00
	422.300	1000.00	68.89	-1.44	0.12	-6.93	312.79	160.00
*	423.650	30000.00	75.49	0.00	-0.32	0.00	349.77	140.00
*	423.650	20000.00	73.97	-1.52	-0.35	-1.52	340.47	140.00
	423.650	17000.00	73.50	-0.48	-0.31	-1.99	337.58	140.00
	423.650	12000.00	72.59	-0.90	-0.22	-2.90	332.04	140.00
*	423.650	3500.00	70.58	-2.02	0.25	-4.92	319.65	140.00
*	423.650	1000.00	69.68	-0.89	0.80	-5.81	314.19	140.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION  SECNO=   314.630  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   314.630  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   314.630  PROFILE= 4  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   314.630  PROFILE= 5  CRITICAL DEPTH ASSUMED

CAUTION  SECNO=   332.150  PROFILE= 6  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   332.150  PROFILE= 6  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   332.150  PROFILE= 6  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=   336.200  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   336.200  PROFILE= 1  MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   336.200  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   336.200  PROFILE= 2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   336.200  PROFILE= 2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=   336.200  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   336.200  PROFILE= 3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   336.200  PROFILE= 3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=   336.200  PROFILE= 4  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   336.200  PROFILE= 4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   336.200  PROFILE= 4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=   341.600  PROFILE= 5  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   341.600  PROFILE= 5  MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   341.600  PROFILE= 6  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   341.600  PROFILE= 6  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=   398.150  PROFILE= 6  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   398.150  PROFILE= 6  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=   409.250  PROFILE= 6  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   409.250  PROFILE= 6  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   409.250  PROFILE= 6  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION  SECNO=   410.500  PROFILE= 5  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   410.500  PROFILE= 5  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   410.500  PROFILE= 5  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=   410.500  PROFILE= 6  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   410.500  PROFILE= 6  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=   411.250  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   411.250  PROFILE= 2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   411.250  PROFILE= 2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=   411.250  PROFILE= 3  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   411.250  PROFILE= 3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   411.250  PROFILE= 3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=   411.250  PROFILE= 4  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   411.250  PROFILE= 4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   411.250  PROFILE= 4  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=   411.250  PROFILE= 5  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   411.250  PROFILE= 5  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   411.250  PROFILE= 5  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION  SECNO=   411.250  PROFILE= 6  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   411.250  PROFILE= 6  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=   423.650  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   423.650  PROFILE= 1  MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   423.650  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   423.650  PROFILE= 2  MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   423.650  PROFILE= 5  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   423.650  PROFILE= 5  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   423.650  PROFILE= 5  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION  SECNO=   423.650  PROFILE= 6  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=   423.650  PROFILE= 6  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=   423.650  PROFILE= 6  20 TRIALS ATTEMPTED TO BALANCE WSEL

C>SECURE


            SECURE - Revision 1.1


Written by James M. Canter for TW Technologies
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APPENDIX II

HEC-2 PROFILES: INTERCEPTOR CHANNEL

INTER6A.OP

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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF NOVEMBER 1976                         *
*  UPDATED MAY 1984                                 *
*                                                   *
*  RUN DATE: Wed 28-JAN-1987  TIME: 11:15:01.34     *
*****************************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS     *
*  THE HYDROLOGIC ENGINEERING CENTER *
*  609 SECOND STREET, SUITE D       *
*  DAVIS, CALIFORNIA 95616          *
*  (916) 756-1104 (FTS) 448-2105    *
*************************************
```

```
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
```

HEC-2 COMPUTATIONS
PERFORMED BY:

ERIE AND ASSOCIATES, INC.
Consulting Engineers
3120 North 24th Street
Phoenix, Arizona 85016

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:::::::::::::::::::::::::::::::::::::::::::::
:::::::::::::::::::::::::::::::::::::::::::::
:::                                       :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION  :::
:::          By: John R. Haestad          :::
:::                                       :::
:::::::::::::::::::::::::::::::::::::::::::::
:::::::::::::::::::::::::::::::::::::::::::::
```

==========
H A E S T A D M E T H O D S
==========

37 Brookside Road * Waterbury, Connecticut 06708 * (203) 753-9800

THIS RUN EXECUTED: Wed 28-JAN-1987 11:15:03.43

```
**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
**************************************************
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T1      ARIZONA CANAL-INTERCEPTOR CHANNEL: SCOTTSDALE LAKES GOLF COURSE
T2      EA # 1192.2: CONTEMPORANEOUS FLOW IN INLET CHANNEL = 20,000 CFS
T3      DESIGN CONDITIONS(6A)              (INTER6A): USCE's HIGH "n" VALUES

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        2.        0.        0.  0.000000      0.00       0.0       0.    73.710     0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    -1.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

   150.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000


NC      0.035     0.035     0.035     0.200     0.400     0.000     0.000     0.000     0.000     0.000
QT      1.000  5500.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
X1      4.600     5.000  1970.000  2115.000     0.000     0.000     0.000     0.000     0.000     0.000
GR     85.000  1800.000    80.000  1825.000    67.000  1970.000    67.000  2115.000    80.000  2175.000

X1      5.650     6.000  1850.000  2090.000   105.000   105.000   105.000     0.000     0.000     0.000
GR     82.000  1755.000    82.000  1800.000    67.000  1850.000    67.000  2090.000    75.000  2120.000
GR     83.000  2150.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000

X1      7.400    10.000  1835.000  2040.000   150.000   200.000   170.000     0.000     0.000     0.000
GR     80.000  1740.000    78.000  1750.000    78.000  1790.000    75.000  1810.000    70.000  1820.000
GR     67.000  1835.000    67.000  2040.000    70.000  2050.000    75.000  2070.000    80.000  2090.000

X1      9.250     8.000  1825.000  2105.000   140.000   210.000   160.000     0.000     0.000     0.000
GR     80.000  1710.000    80.000  1750.000    67.000  1825.000    67.000  1970.000    70.000  1985.000
GR     70.000  2105.000    75.000  2125.000    80.000  2140.000     0.000     0.000     0.000     0.000

X1     11.000    12.000  1840.000  2060.000   120.000   200.000   160.000     0.000     0.000     0.000
GR     80.000  1790.000    75.000  1810.000    70.000  1830.000    67.000  1840.000    67.000  1940.000
GR     68.000  1955.000    68.000  2005.000    67.000  2010.000    67.000  2060.000    70.000  2070.000
GR     75.000  2080.000    80.000  2100.000     0.000     0.000     0.000     0.000     0.000     0.000

X1     12.450    10.000  1890.000  2045.000   150.000   150.000   150.000     0.000     0.000     0.000
GR     79.000  1850.000    75.000  1870.000    70.000  1880.000    67.000  1890.000    67.000  2020.000
GR     68.000  2045.000    70.000  2060.000    75.000  2080.000    80.000  2100.000    84.000  2130.000
```

X1	13.450	12.000	1905.000	2055.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	80.000	1765.000	80.000	1770.000	75.000	1850.000	67.000	1905.000	67.000	1960.000
GR	69.000	1975.000	69.000	2010.000	68.000	2020.000	68.000	2055.000	79.000	2135.000
GR	79.000	2150.000	82.000	2165.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	14.400	8.000	1925.000	2050.000	110.000	110.000	110.000	0.000	0.000	0.000
GR	80.000	1860.000	75.000	1900.000	70.000	1920.000	67.000	1925.000	67.000	2030.000
GR	70.000	2050.000	75.000	2080.000	80.000	2130.000	0.000	0.000	0.000	0.000
X1	15.750	10.000	1905.000	2050.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	80.000	1750.000	79.000	1805.000	78.000	1835.000	78.000	1860.000	67.000	1905.000
GR	67.000	2020.000	68.000	2050.000	70.000	2070.000	80.000	2110.000	83.000	2130.000
NC	0.035	0.035	0.035	0.300	0.500	0.000	0.000	0.000	0.000	0.000
X1	17.050	8.000	1860.000	2070.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	78.000	1820.000	75.000	1830.000	70.000	1850.000	67.000	1860.000	67.000	2010.000
GR	70.000	2070.000	75.000	2090.000	80.000	2110.000	0.000	0.000	0.000	0.000
X1	18.200	11.000	1990.000	2050.000	120.000	120.000	120.000	0.000	0.000	0.000
GR	77.000	1850.000	75.000	1870.000	70.000	1900.000	71.000	1930.000	74.000	1940.000
GR	75.000	1950.000	74.000	1960.000	67.000	1990.000	67.000	2050.000	70.000	2060.000
GR	80.000	2125.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	19.090	13.000	1925.000	2085.000	70.000	70.000	70.000	0.000	0.000	0.000
GR	80.000	1890.000	75.000	1890.010	70.000	1925.000	69.000	1975.000	69.000	2002.000
GR	67.000	2003.000	67.000	2018.000	69.000	2019.000	69.000	2020.000	69.000	2040.000
GR	70.000	2085.000	75.000	2125.000	80.000	2125.000	0.000	0.000	0.000	0.000
NC	0.035	0.035	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	19.100	35.000	1925.010	2085.000	10.000	10.000	10.000	0.000	0.000	0.000
GR	79.500	1890.000	75.000	1890.010	71.300	1916.000	79.500	1916.010	79.500	1925.000
GR	70.000	1925.010	69.500	1952.000	79.500	1952.010	79.500	1961.000	69.300	1961.010
GR	69.000	1975.000	69.000	1988.000	79.500	1988.010	79.500	1997.000	69.000	1997.010
GR	69.000	2002.000	67.000	2003.000	67.000	2018.000	69.000	2019.000	69.000	2020.000
GR	69.000	2024.000	79.500	2024.010	79.500	2033.000	69.000	2033.010	69.400	2060.000
GR	79.500	2060.010	79.500	2069.000	69.600	2069.010	70.000	2085.000	71.400	2096.000
GR	79.500	2096.010	79.500	2105.000	72.500	2105.010	75.000	2125.000	80.000	2125.010
BT	2.000	1890.000	84.200	79.500	2125.000	82.200	79.500	0.000	0.000	0.000
X1	20.150	35.000	1925.010	2085.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	79.500	1890.000	75.000	1890.010	71.300	1916.000	79.500	1916.010	79.500	1925.000
GR	70.000	1925.010	69.500	1952.000	79.500	1952.010	79.500	1961.000	69.300	1961.010
GR	69.000	1975.000	69.000	1988.000	79.500	1988.010	79.500	1997.000	69.000	1997.010
GR	69.000	2002.000	67.000	2003.000	67.000	2018.000	69.000	2019.000	69.000	2020.000
GR	69.000	2024.000	79.500	2024.010	79.500	2033.000	69.000	2033.010	69.400	2060.000
GR	79.500	2060.010	79.500	2069.000	69.600	2069.010	70.000	2085.000	71.400	2096.000
GR	79.500	2096.010	79.500	2105.000	72.500	2105.010	75.000	2125.000	80.000	2125.010
BT	2.000	1890.000	84.200	79.500	2125.000	82.200	79.500	0.000	0.000	0.000

X1	20.160	13.000	1925.000	2085.000	10.000	10.000	10.000	0.000	0.000	0.000
GR	80.000	1890.000	75.000	1890.010	70.000	1925.000	69.000	1975.000	69.000	2002.000
GR	67.000	2003.000	67.000	2018.000	69.000	2019.000	69.000	2020.000	69.000	2040.000
GR	70.000	2085.000	75.000	2125.000	80.000	2125.000	0.000	0.000	0.000	0.000
NC	0.035	0.035	0.035	0.200	0.400	0.000	0.000	0.000	0.000	0.000
X1	22.050	8.000	1870.000	2040.000	185.000	185.000	185.000	0.000	0.000	0.000
GR	80.000	1735.000	80.000	1835.000	70.000	1870.000	67.000	1940.000	67.000	2040.000
GR	75.000	2095.000	76.000	2130.000	80.000	2140.000	0.000	0.000	0.000	0.000
X1	23.900	8.000	1900.000	2080.000	240.000	260.000	255.000	0.000	0.000	0.000
GR	78.000	1815.000	78.000	1863.000	70.000	1895.000	67.000	1900.000	67.000	2080.000
GR	70.000	2100.000	75.000	2125.000	80.000	2150.000	0.000	0.000	0.000	0.000
X1	26.100	8.000	1950.000	2080.000	220.000	220.000	220.000	0.000	0.000	0.000
GR	75.000	1850.000	75.000	1915.000	70.000	1940.000	67.000	1950.000	67.000	2080.000
GR	70.000	2090.000	75.000	2110.000	78.000	2135.000	0.000	0.000	0.000	0.000
X1	28.200	10.000	1900.000	2060.000	210.000	220.000	210.000	0.000	0.000	0.000
GR	80.000	1830.000	67.000	1900.000	67.000	1985.000	68.000	1995.000	68.000	2020.000
GR	67.000	2025.000	67.000	2060.000	70.000	2085.000	75.000	2100.000	77.000	2130.000
X1	30.000	13.000	1890.000	2040.000	175.000	175.000	175.000	0.000	0.000	0.000
GR	80.000	1760.000	80.000	1835.000	75.000	1840.000	70.000	1890.000	69.000	1940.000
GR	67.000	1950.000	67.000	1990.000	69.000	2005.000	70.000	2040.000	80.000	2085.000
GR	83.000	2100.000	80.000	2115.000	80.000	2130.000	0.000	0.000	0.000	0.000
X1	31.750	11.000	1890.000	2030.000	180.000	180.000	180.000	0.000	0.000	0.000
GR	79.000	1825.000	75.000	1860.000	70.000	1875.000	67.000	1890.000	67.000	2030.000
GR	70.000	2040.000	71.000	2050.000	72.000	2060.000	73.000	2080.000	75.000	2090.000
GR	80.000	2110.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	33.800	9.000	1905.000	2090.000	190.000	210.000	200.000	0.000	0.000	0.000
GR	79.000	1830.000	75.000	1870.000	70.000	1890.000	67.000	1905.000	67.000	1950.000
GR	69.000	1955.000	70.000	1990.000	70.000	2090.000	80.000	2120.000	0.000	0.000
X1	35.600	10.000	1870.000	2090.000	170.000	200.000	180.000	0.000	0.000	0.000
GR	80.000	1805.000	79.000	1830.000	75.000	1860.000	70.000	1870.000	67.000	1880.000
GR	67.000	1960.000	71.000	1985.000	72.000	2060.000	75.000	2090.000	80.000	2160.000
X1	37.800	7.000	1885.000	2075.000	180.000	240.000	210.000	0.000	0.000	0.000
GR	80.000	1770.000	80.000	1835.000	75.000	1840.000	67.000	1885.000	67.000	2075.000
GR	80.000	2130.000	80.000	2150.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	39.900	8.000	1875.000	2070.000	200.000	210.000	205.000	0.000	0.000	0.000
GR	79.000	1830.000	75.000	1850.000	70.000	1870.000	67.000	1875.000	67.000	2060.000
GR	70.000	2070.000	75.000	2110.000	80.000	2150.000	0.000	0.000	0.000	0.000

X1	42.000	8.000	1930.000	2115.000	210.000	215.000	210.000	0.000	0.000	0.000
GR	83.000	1860.000	75.000	1905.000	70.000	1930.000	67.000	1955.000	67.000	2070.000
GR	70.000	2115.000	75.000	2140.000	83.000	2180.000	0.000	0.000	0.000	0.000
X1	44.000	14.000	1970.000	2170.000	225.000	180.000	210.000	0.000	0.000	0.000
GR	80.000	1870.000	79.000	1905.000	75.000	1935.000	70.000	1960.000	69.000	1970.000
GR	68.000	2045.000	69.000	2060.000	69.000	2075.000	67.000	2080.000	67.000	2170.000
GR	75.000	2215.000	80.000	2240.000	88.000	2275.000	85.000	2295.000	0.000	0.000
X1	46.100	10.000	1900.000	2145.000	230.000	160.000	200.000	0.000	0.000	0.000
GR	82.000	1790.000	82.000	1820.000	80.000	1855.000	73.000	1900.000	72.500	1935.000
GR	72.000	2000.000	70.000	2030.000	70.000	2145.000	80.000	2190.000	82.000	2250.000
X1	48.150	15.000	1920.000	2085.000	230.000	190.000	210.000	0.000	0.000	0.000
GR	80.000	1880.000	75.000	1890.000	71.000	1920.000	71.000	1980.000	72.000	2000.000
GR	73.000	2010.000	73.000	2020.000	70.000	2035.000	70.000	2050.000	72.000	2085.000
GR	72.000	2110.000	80.000	2130.000	80.000	2155.000	81.000	2210.000	81.000	2240.000
X1	50.200	8.000	1880.000	2060.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	80.000	1840.000	75.000	1860.000	70.000	1880.000	70.000	2060.000	75.000	2080.000
GR	80.000	2115.000	87.000	2160.000	87.000	2210.000	0.000	0.000	0.000	0.000
X1	52.000	7.000	1855.000	2110.000	180.000	185.000	185.000	0.000	0.000	0.000
GR	80.000	1760.000	80.000	1830.000	74.000	1855.000	73.000	1890.000	70.000	1910.000
GR	70.000	2110.000	85.000	2150.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	54.450	5.000	1910.000	2130.000	210.000	200.000	210.000	0.000	0.000	0.000
GR	78.000	1860.000	75.000	1885.000	70.000	1910.000	70.000	2130.000	80.000	2160.000
X1	56.500	11.000	1915.000	2090.000	210.000	200.000	210.000	0.000	0.000	0.000
GR	79.000	1865.000	78.000	1875.000	75.000	1895.000	70.000	1915.000	70.000	1960.000
GR	72.000	1975.000	73.000	2010.000	72.000	2030.000	70.000	2040.000	70.000	2090.000
GR	75.000	2120.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	58.500	8.000	2010.000	2145.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	80.000	1900.000	80.000	1950.000	74.000	2010.000	70.000	2075.000	70.000	2100.000
GR	75.000	2145.000	80.000	2160.000	84.000	2190.000	0.000	0.000	0.000	0.000
X1	60.600	12.000	1920.000	2165.000	280.000	240.000	320.000	0.000	0.000	0.000
GR	81.000	1855.000	80.000	1895.000	80.000	1920.000	80.000	1950.000	80.000	1980.000
GR	80.000	2000.000	76.000	2040.000	70.000	2090.000	70.000	2110.000	70.000	2140.000
GR	75.000	2165.000	80.000	2195.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	63.630	11.000	2055.000	2170.000	300.000	230.000	260.000	0.000	0.000	0.000
GR	80.000	1920.000	80.000	1950.000	81.000	1955.000	82.000	1980.000	82.000	2010.000
GR	77.000	2040.000	72.000	2065.000	72.000	2130.000	70.000	2135.000	70.000	2170.000
GR	80.000	2190.000	86.000	2230.000	82.000	2265.000	0.000	0.000	0.000	0.000

X1	66.700	10.000	2020.000	2185.000	310.000	310.000	310.000	0.000	0.000	0.000
GR	80.000	1920.000	78.000	1940.000	78.000	1955.000	77.000	2000.000	73.000	2020.000
GR	72.000	2070.000	72.000	2130.000	70.000	2170.000	70.000	2185.000	80.000	2230.000
X1	70.800	6.000	1980.000	2350.000	415.000	415.000	415.000	0.000	0.000	0.000
GR	80.000	1960.000	72.000	1980.000	70.000	2000.000	70.000	2045.000	70.000	2350.000
GR	80.000	2390.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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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


*PROF 1

CCHV=   0.200 CEHV=   0.400
*SECNO 4.600
     4.60     6.71    73.71     0.00    73.71    74.00     0.29     0.00     0.00    67.00
    5500.     726.    4477.     297.     251.     973.     104.       0.       0.    67.00
     0.00     2.89     4.60     2.85    0.035    0.035    0.035    0.000    67.00  1895.16
 0.000928       0.       0.       0.        0        0        0     0.00   250.81  2145.97


FLOW DISTRIBUTION FOR SECNO=      4.60          CWSEL=     73.71

STA=    1895.    1970.    2115.    2146.
  PER Q=     13.2     81.4      5.4
   AREA=    251.1    972.9    103.9
    VEL=      2.9      4.6      2.9

*SECNO 5.650
     5.65     6.95    73.95     0.00     0.00    74.09     0.14     0.06     0.03    67.00
    5500.     153.    5174.     173.      80.    1668.      91.       4.       1.    67.00
     0.01     1.90     3.10     1.91    0.035    0.035    0.035    0.000    67.00  1826.84
 0.000403     105.     105.     105.        2        0        0     0.00   289.22  2116.06


FLOW DISTRIBUTION FOR SECNO=      5.65          CWSEL=     73.95

STA=    1827.    1850.    2090.    2116.
  PER Q=      2.8     94.1      3.1
   AREA=     80.5   1667.7     90.5
    VEL=      1.9      3.1      1.9

*SECNO 7.400
     7.40     7.00    74.00     0.00     0.00    74.18     0.18     0.08     0.02    67.00
    5500.     266.    5027.     207.      99.    1435.      87.      11.       2.    67.00
     0.02     2.69     3.50     2.38    0.035    0.035    0.035    0.000    67.00  1812.00
 0.000508     150.     170.     200.        2        0        0     0.00   254.01  2066.01


FLOW DISTRIBUTION FOR SECNO=      7.40          CWSEL=     74.00

STA=    1812.    1820.    1835.    2040.    2050.    2066.
  PER Q=      0.4      4.4     91.4      2.9      0.9
   AREA=     16.0     82.5   1435.4     55.0     32.0
    VEL=      1.4      2.9      3.5      2.9      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 9.250
    9.25     7.12    74.12     0.00     0.00    74.28     0.15     0.08     0.01    67.00
   5500.      334.    5113.      53.      146.    1612.      34.      17.       3.    70.00
    0.04     2.28     3.17     1.57    0.035    0.035    0.035    0.000    67.00  1783.89
0.000541     140.     160.     210.        2        0        0     0.00   337.61  2121.50


FLOW DISTRIBUTION FOR SECNO=      9.25          CWSEL=     74.12

STA=    1784.    1825.    2105.    2121.
  PER Q=      6.1      93.0      1.0
   AREA=    146.4   1612.5     34.0
    VEL=      2.3      3.2      1.6

*SECNO 11.000
   11.00     7.19    74.19     0.00     0.00    74.36     0.17     0.08     0.01    67.00
   5500.      215.    5098.     187.      92.    1524.      75.      23.       4.    67.00
    0.05     2.33     3.34     2.51    0.035    0.035    0.035    0.000    67.00  1813.19
0.000470     120.     160.     200.        1        0        0     0.00   265.21  2078.40


FLOW DISTRIBUTION FOR SECNO=     11.00          CWSEL=     74.19

STA=    1813.    1830.    1840.    2060.    2070.    2078.
  PER Q=      0.9      3.0     92.7      3.0      0.4
   AREA=     35.3     57.0   1524.4     57.0     17.7
    VEL=      1.5      2.9      3.3      2.9      1.4

*SECNO 12.450
   12.45     7.21    74.21     0.00     0.00    74.50     0.29     0.09     0.05    67.00
   5500.      245.    4907.     348.      75.    1105.     114.      28.       5.    68.00
    0.06     3.27     4.44     3.07    0.035    0.035    0.035    0.000    67.00  1871.58
0.000797     150.     150.     150.        2        0        0     0.00   205.27  2076.85


FLOW DISTRIBUTION FOR SECNO=     12.45          CWSEL=     74.21

STA=    1872.    1880.    1890.    2045.    2060.    2077.
  PER Q=      0.6      3.9     89.2      5.1      1.2
   AREA=     17.7     57.1   1105.3     78.2     35.5
    VEL=      1.8      3.7      4.4      3.6      1.9
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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 13.450
    13.45     7.29     74.29      0.00      0.00     74.60      0.31      0.09      0.01     67.00
    5500.     585.     4497.      418.      182.      957.      144.       31.       5.      68.00
     0.07     3.21      4.70      2.91     0.035     0.035     0.035     0.000     67.00   1854.93
 0.001035     100.      100.      100.         1         0         0      0.00    245.77   2100.70


FLOW DISTRIBUTION FOR SECNO=     13.45          CWSEL=     74.29

STA=    1855.    1905.    2055.    2101.
  PER Q=     10.6     81.8      7.6
   AREA=    182.3    957.5    143.6
    VEL=      3.2      4.7      2.9

*SECNO 14.400
    14.40     7.31     74.31      0.00      0.00     74.81      0.50      0.13      0.08     67.00
    5500.     229.     5126.      145.       66.      884.       56.       34.       6.      70.00
     0.07     3.47      5.80      2.61     0.035     0.035     0.035     0.000     67.00   1902.77
 0.001380     110.      110.      110.         2         0         0      0.00    173.08   2075.85


FLOW DISTRIBUTION FOR SECNO=     14.40          CWSEL=     74.31

STA=    1903.    1920.    1925.    2050.    2076.
  PER Q=      1.7      2.4     93.2      2.6
   AREA=     37.1     29.0    883.5     55.7
    VEL=      2.6      4.6      5.8      2.6

*SECNO 15.750
    15.75     7.71     74.71      0.00      0.00     74.97      0.26      0.12      0.05     67.00
    5500.     323.     4693.      485.      122.     1103.      159.       38.       6.      68.00
     0.08     2.65      4.25      3.06     0.035     0.035     0.035     0.000     67.00   1873.45
 0.000671     125.      125.      125.         2         0         0      0.00    215.39   2088.85


FLOW DISTRIBUTION FOR SECNO=     15.75          CWSEL=     74.71

STA=    1873.    1905.    2050.    2070.    2089.
  PER Q=      5.9     85.3      7.3      1.5
   AREA=    121.6   1103.2    114.2     44.4
    VEL=      2.7      4.3      3.5      1.9
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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=   0.300 CEHV=   0.500
*SECNO 17.050
    17.05     7.90    74.90     0.00     0.00    75.06     0.16     0.06     0.03    67.00
    5500.     259.    5168.      74.     112.    1569.      48.      42.       7.    70.00
     0.09     2.31     3.29     1.54    0.035    0.035    0.035    0.000    67.00  1830.40
 0.000412     125.     125.     125.        2        0        0     0.00   259.21  2089.60


FLOW DISTRIBUTION FOR SECNO=     17.05          CWSEL=     74.90

STA=    1830.    1850.    1860.    2070.    2090.
  PER Q=      1.3      3.4     94.0      1.3
   AREA=     48.0     64.0   1569.2     48.0
    VEL=      1.5      2.9      3.3      1.5

*SECNO 18.200

3265 DIVIDED FLOW

    18.20     7.77    74.77     0.00     0.00    75.38     0.61     0.09     0.22    67.00
    5500.    1524.    3356.     621.     353.     466.     137.      46.       8.    67.00
     0.10     4.31     7.20     4.54    0.035    0.035    0.035    0.000    67.00  1871.37
 0.001867     120.     120.     120.        2        0        0     0.00   215.05  2091.01


FLOW DISTRIBUTION FOR SECNO=     18.20          CWSEL=     74.77

STA=    1871.    1900.    1930.    1940.    1948.    1960.    1990.    2050.    2060.    2091.
  PER Q=      4.0     11.2      1.3      0.1      0.1     11.1     61.0      6.9      4.4
   AREA=     68.3    128.1     22.7      3.0      3.0    128.1    466.3     62.7     74.0
    VEL=      3.2      4.8      3.1      1.0      1.0      4.7      7.2      6.1      3.2

*SECNO 19.090
    19.09     8.19    75.19     0.00     0.00    75.56     0.37     0.11     0.07    70.00
    5500.     275.    4910.     315.      94.     976.     108.      48.       8.    70.00
     0.10     2.92     5.03     2.93    0.035    0.035    0.035    0.000    67.00  1890.01
 0.001288      70.      70.      70.        2        0        0     0.00   234.99  2125.00


FLOW DISTRIBUTION FOR SECNO=     19.09          CWSEL=     75.19

STA=    1890.    1925.    2085.    2125.
  PER Q=      5.0     89.3      5.7
   AREA=     94.3    975.5    107.8
    VEL=      2.9      5.0      2.9
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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 19.100

3265 DIVIDED FLOW

    19.10     8.07    75.07     0.00     0.00    75.72     0.66     0.02     0.15    70.00
    5500.     177.    4982.     341.      50.     743.      74.      48.       8.    70.00
     0.10     3.55     6.70     4.59    0.035    0.035    0.035    0.000    67.00  1890.01
 0.003570      10.      10.      10.        2        0        0     0.00   180.99  2125.00


FLOW DISTRIBUTION FOR SECNO=     19.10          CWSEL=     75.07

STA=    1890.    1916.    2085.    2096.    2125.
  PER Q=      3.2     90.6      4.9      1.3
   AREA=     49.8    743.5     48.0     26.3
    VEL=      3.5      6.7      5.6      2.8

*SECNO 20.150

3265 DIVIDED FLOW

    20.15     8.52    75.52     0.00     0.00    76.07     0.55     0.31     0.03    70.00
    5500.     219.    4904.     377.      62.     801.      89.      50.       8.    70.00
     0.11     3.54     6.13     4.26    0.035    0.035    0.035    0.000    67.00  1890.01
 0.002779     100.     100.     100.        2        0        0     0.00   181.00  2125.00


FLOW DISTRIBUTION FOR SECNO=     20.15          CWSEL=     75.52

STA=    1890.    1916.    2085.    2096.    2125.
  PER Q=      4.0     89.2      5.0      1.9
   AREA=     61.8    800.6     53.1     35.5
    VEL=      3.5      6.1      5.1      2.9

*SECNO 20.160
    20.16     8.89    75.89     0.00     0.00    76.17     0.28     0.01     0.08    70.00
    5500.     325.    4802.     373.     119.    1087.     136.      50.       9.    70.00
     0.11     2.74     4.42     2.75    0.035    0.035    0.035    0.000    67.00  1890.01
 0.000860      10.      10.      10.        2        0        0     0.00   234.99  2125.00


FLOW DISTRIBUTION FOR SECNO=     20.16          CWSEL=     75.89

STA=    1890.    1925.    2085.    2125.
  PER Q=      5.9     87.3      6.8
   AREA=    118.5   1086.6    135.5
    VEL=      2.7      4.4      2.8
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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=   0.200 CEHV=   0.400
*SECNO 22.050
    22.05     9.13    76.13     0.00     0.00    76.29     0.15     0.09     0.03    70.00
    5500.     106.    4728.     666.      66.    1448.     305.      57.      10.    67.00
     0.12     1.61     3.27     2.19    0.035    0.035    0.035    0.000    67.00  1848.53
 0.000340     185.     185.     185.        2        0        0     0.00   281.80  2130.33


FLOW DISTRIBUTION FOR SECNO=     22.05          CWSEL=     76.13

STA=    1849.    1870.    2040.    2095.    2130.
  PER Q=      1.9     86.0     11.9      0.2
   AREA=     65.8   1447.7    282.3     22.2
    VEL=      1.6      3.3      2.3      0.6

*SECNO 23.900
    23.90     9.24    76.24     0.00     0.00    76.36     0.12     0.07     0.01    67.00
    5500.     195.    4767.     538.     117.    1664.     252.      68.      11.    67.00
     0.15     1.67     2.86     2.13    0.035    0.035    0.035    0.000    67.00  1870.02
 0.000235     240.     255.     260.        2        0        0     0.00   261.20  2131.22


FLOW DISTRIBUTION FOR SECNO=     23.90          CWSEL=     76.24

STA=    1870.    1895.    1900.    2080.    2100.    2125.    2131.
  PER Q=      1.9      1.6     86.7      7.1      2.6      0.0
   AREA=     78.0     38.7   1664.1    154.9     93.6      3.9
    VEL=      1.4      2.3      2.9      2.5      1.5      0.5

*SECNO 26.100
3280 CROSS SECTION     26.10 EXTENDED      1.26 FEET

    26.10     9.26    76.26     0.00     0.00    76.46     0.20     0.07     0.03    67.00
    5500.     528.    4560.     411.     254.    1204.     160.      77.      13.    67.00
     0.17     2.08     3.79     2.58    0.035    0.035    0.035    0.000    67.00  1850.00
 0.000409     220.     220.     220.        2        0        0     0.00   270.53  2120.53


FLOW DISTRIBUTION FOR SECNO=     26.10          CWSEL=     76.26

STA=    1850.    1915.    1940.    1950.    2080.    2090.    2110.    2121.
  PER Q=      1.5      3.5      4.6     82.9      4.6      2.8      0.1
   AREA=     82.1     94.1     77.6   1204.3     77.6     75.3      6.7
    VEL=      1.0      2.1      3.3      3.8      3.3      2.0      0.6
```

```
   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 28.200
    28.20     9.42    76.42     0.00     0.00    76.54     0.13     0.07     0.01    67.00
    5500.     452.    4411.     637.     239.    1474.     272.      86.      14.    67.00
     0.19     1.89     2.99     2.34    0.035    0.035    0.035    0.000    67.00  1849.28
 0.000257     210.     210.     220.        2        0        0     0.00   272.00  2121.28


FLOW DISTRIBUTION FOR SECNO=     28.20          CWSEL=     76.42

STA=    1849.    1900.    2060.    2085.    2100.    2121.
  PER Q=      8.2     80.2      9.7      1.7      0.1
   AREA=    238.8   1474.5    198.0     58.8     15.1
    VEL=      1.9      3.0      2.7      1.6      0.5

*SECNO 30.000
    30.00     9.42    76.42     0.00     0.00    76.65     0.24     0.07     0.04    70.00
    5500.     503.    4792.     205.     197.    1175.      93.      93.      15.    70.00
     0.20     2.55     4.08     2.22    0.035    0.035    0.035    0.000    67.00  1838.58
 0.000595     175.     175.     175.        2        0        0     0.00   230.30  2068.88


FLOW DISTRIBUTION FOR SECNO=     30.00          CWSEL=     76.42

STA=    1839.    1840.    1890.    2040.    2069.
  PER Q=      0.0      9.1     87.1      3.7
   AREA=      1.0    195.9   1175.1     92.7
    VEL=      0.7      2.6      4.1      2.2

*SECNO 31.750
    31.75     9.60    76.60     0.00     0.00    76.74     0.15     0.07     0.02    67.00
    5500.     464.    4365.     671.     194.    1344.     306.     100.      16.    67.00
     0.22     2.39     3.25     2.19    0.035    0.035    0.035    0.000    67.00  1846.02
 0.000287     180.     180.     180.        2        0        0     0.00   250.37  2096.39


FLOW DISTRIBUTION FOR SECNO=     31.75          CWSEL=     76.60

STA=    1846.    1860.    1875.    1890.    2030.    2040.    2050.    2060.    2080.    2090.    2096.
  PER Q=      0.1      2.0      6.3     79.4      4.1      2.7      2.0      2.7      0.6      0.1
   AREA=     11.2     61.5    121.5   1343.7     81.0     61.0     51.0     82.0     26.0      5.1
    VEL=      0.6      1.8      2.9      3.2      2.8      2.4      2.1      1.8      1.3      0.6
```

```
   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 33.800
    33.80     9.65    76.65     0.00     0.00    76.82     0.17     0.07     0.01    67.00
    5500.     631.    4742.     127.     219.    1393.     66.      108.     17.     70.00
     0.23     2.88     3.40     1.91    0.035    0.035    0.035    0.000    67.00  1853.47
 0.000436     190.     200.     210.        2        0        0     0.00   256.49  2109.96


FLOW DISTRIBUTION FOR SECNO=     33.80          CWSEL=     76.65

STA=    1853.    1870.    1890.    1905.    2090.    2110.
  PER Q=      0.2      3.4      7.9     86.2      2.3
   AREA=     13.7     83.1    122.3   1393.3     66.4
    VEL=      0.8      2.2      3.5      3.4      1.9

*SECNO 35.600
    35.60     9.73    76.73     0.00     0.00    76.91     0.19     0.08     0.01    70.00
    5500.     107.    5375.      18.      53.    1541.      21.     115.      18.     75.00
     0.25     2.01     3.49     0.86    0.035    0.035    0.035    0.000    67.00  1847.10
 0.000507     170.     180.     200.        0        0        0     0.00   266.97  2114.07


FLOW DISTRIBUTION FOR SECNO=     35.60          CWSEL=     76.73

STA=    1847.    1860.    1870.    2090.    2114.
  PER Q=      0.2      1.8     97.7      0.3
   AREA=     11.1     42.2   1540.8     20.7
    VEL=      0.9      2.3      3.5      0.9

*SECNO 37.800
    37.80     9.90    76.90     0.00     0.00    76.99     0.09     0.06     0.02    67.00
    5500.     467.    4712.     321.     267.    1881.     207.     124.      19.     67.00
     0.27     1.75     2.51     1.55    0.035    0.035    0.035    0.000    67.00  1838.10
 0.000164     180.     210.     240.        2        0        0     0.00   278.78  2116.88


FLOW DISTRIBUTION FOR SECNO=     37.80          CWSEL=     76.90

STA=    1838.    1840.    1885.    2075.    2117.
  PER Q=      0.0      8.5     85.7      5.8
   AREA=      1.8    265.5   1881.0    207.3
    VEL=      0.4      1.8      2.5      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 39.900
    39.90     9.93     76.93      0.00      0.00     77.03      0.10      0.03      0.00     67.00
    5500.     227.     4995.      278.      140.     1921.      192.      135.       21.     70.00
     0.30     1.62      2.60      1.45     0.035     0.035     0.035     0.000     67.00   1840.35
 0.000178     200.      205.      210.         2         0         0      0.00    285.08   2125.44


FLOW DISTRIBUTION FOR SECNO=     39.90          CWSEL=     76.93

STA=    1840.    1850.    1870.    1875.    2070.    2110.    2125.
  PER Q=      0.1      2.4      1.6     90.8      4.9      0.1
   AREA=      9.3     88.6     42.1   1921.2    177.2     14.9
    VEL=      0.5      1.5      2.1      2.6      1.5      0.6

*SECNO 42.000
    42.00     9.96     76.96      0.00      0.00     77.08      0.13      0.04      0.01     70.00
    5500.     204.     5093.      203.      123.     1739.      121.      145.       22.     70.00
     0.32     1.66      2.93      1.67     0.035     0.035     0.035     0.000     67.00   1893.94
 0.000240     210.      210.      215.         0         0         0      0.00    255.88   2149.83


FLOW DISTRIBUTION FOR SECNO=     42.00          CWSEL=     76.96

STA=    1894.    1905.    1930.    2115.    2140.    2150.
  PER Q=      0.1      3.6     92.6      3.6      0.1
   AREA=     10.9    111.6   1738.6    111.6      9.7
    VEL=      0.6      1.8      2.9      1.8      0.6

*SECNO 44.000
    44.00    10.04     77.04      0.00      0.00     77.13      0.09      0.04      0.01     69.00
    5500.     352.     4629.      519.      205.     1839.      282.      156.       23.     67.00
     0.34     1.72      2.52      1.84     0.035     0.035     0.035     0.000     67.00   1919.68
 0.000183     225.      210.      180.         2         0         0      0.00    305.53   2225.21


FLOW DISTRIBUTION FOR SECNO=     44.00          CWSEL=     77.04

STA=    1920.    1935.    1960.    1970.    2170.    2215.    2225.
  PER Q=      0.2      3.2      3.0     84.2      9.3      0.1
   AREA=     15.6    113.6     75.4   1838.5    271.9     10.4
    VEL=      0.6      1.6      2.2      2.5      1.9      0.6
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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 46.100
   46.10     7.05    77.05     0.00     0.00    77.23     0.19     0.06     0.04    73.00
   5500.      90.    5136.     274.      53.    1454.     112.     165.      25.    70.00
    0.36     1.71     3.53     2.46    0.035    0.035    0.035    0.000    70.00  1873.98
0.000644     230.     200.     160.        2        0        0     0.00   302.73  2176.71


FLOW DISTRIBUTION FOR SECNO=     46.10          CWSEL=     77.05

STA=    1874.    1900.    2145.    2177.
  PER Q=      1.6     93.4      5.0
   AREA=     52.6   1454.0    111.7
    VEL=      1.7      3.5      2.5

*SECNO 48.150
   48.15     7.15    77.15     0.00     0.00    77.45     0.30     0.17     0.05    71.00
   5500.     450.    4435.     615.     129.     976.     162.     171.      26.    72.00
    0.37     3.49     4.54     3.81    0.035    0.035    0.035    0.000    70.00  1885.72
0.001075     230.     210.     190.        1        0        0     0.00   237.14  2122.86


FLOW DISTRIBUTION FOR SECNO=     48.15          CWSEL=     77.15

STA=    1886.    1890.    1920.    2085.    2110.    2123.
  PER Q=      0.1      8.1     80.6      9.7      1.5
   AREA=      4.6    124.3    976.0    128.6     33.1
    VEL=      1.4      3.6      4.5      4.1      2.5

*SECNO 50.200
   50.20     7.42    77.42     0.00     0.00    77.61     0.20     0.15     0.02    70.00
   5500.     283.    4925.     293.     110.    1335.     119.     178.      27.    70.00
    0.38     2.57     3.69     2.46    0.035    0.035    0.035    0.000    70.00  1850.34
0.000522     200.     200.     200.        2        0        0     0.00   246.57  2096.91


FLOW DISTRIBUTION FOR SECNO=     50.20          CWSEL=     77.42

STA=    1850.    1860.    1880.    2060.    2080.    2097.
  PER Q=      0.2      4.9     89.5      4.9      0.4
   AREA=     11.7     98.3   1334.8     98.3     20.4
    VEL=      1.1      2.7      3.7      2.7      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 52.000
    52.00     7.57    77.57     0.00     0.00    77.71     0.14     0.08     0.01    74.00
    5500.      31.    5323.     146.      27.    1777.      76.     185.      28.    70.00
     0.40     1.19     3.00     1.91    0.035    0.035    0.035    0.000    70.00  1840.14
 0.000374     180.     185.     185.        1        0        0     0.00   290.04  2130.18


FLOW DISTRIBUTION FOR SECNO=     52.00          CWSEL=     77.57

STA=    1840.    1855.    2110.    2130.
  PER Q=      0.6     96.8      2.6
   AREA=     26.5   1777.1     76.3
    VEL=      1.2      3.0      1.9

*SECNO 54.450
    54.45     7.65    77.65     0.00     0.00    77.78     0.13     0.07     0.00    70.00
    5500.     319.    5022.     159.     158.    1685.      88.     194.      30.    70.00
     0.42     2.01     2.98     1.81    0.035    0.035    0.035    0.000    70.00  1862.85
 0.000326     210.     210.     200.        1        0        0     0.00   290.13  2152.98


FLOW DISTRIBUTION FOR SECNO=     54.45          CWSEL=     77.65

STA=    1863.    1885.    1910.    2130.    2153.
  PER Q=      0.5      5.3     91.3      2.9
   AREA=     29.4    129.0   1684.9     88.0
    VEL=      0.9      2.3      3.0      1.8

*SECNO 56.500
3280 CROSS SECTION     56.50 EXTENDED      2.69 FEET

    56.50     7.69    77.69     0.00     0.00    77.92     0.22     0.09     0.04    70.00
    5500.     368.    4651.     481.     128.    1183.     156.     203.      31.    70.00
     0.44     2.87     3.93     3.09    0.035    0.035    0.035    0.000    70.00  1877.06
 0.000672     210.     210.     200.        2        0        0     0.00   242.94  2120.00


FLOW DISTRIBUTION FOR SECNO=     56.50          CWSEL=     77.69

STA=    1877.    1895.    1915.    2090.    2120.
  PER Q=      0.6      6.1     84.6      8.7
   AREA=     24.1    103.8   1183.4    155.7
    VEL=      1.3      3.2      3.9      3.1
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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 58.500
    58.50     7.65     77.65      0.00      0.00     78.32      0.67      0.23      0.18     74.00
    5500.     204.     5270.      25.       67.      791.       11.       208.      32.      75.00
     0.45     3.06      6.66      2.40     0.035     0.035     0.035     0.000     70.00   1973.46
 0.002343     200.      200.      200.        2         0         0      0.00    179.50   2152.96


FLOW DISTRIBUTION FOR SECNO=     58.50          CWSEL=     77.65

STA=    1973.    2010.    2145.    2153.
  PER Q=      3.7      95.8      0.5
   AREA=     66.7     790.8     10.6
    VEL=      3.1       6.7      2.4

*SECNO 60.600
    60.60     8.44     78.44      0.00      0.00     79.03      0.59      0.69      0.02     80.00
    5500.       0.     5403.      97.        0.      873.       36.       214.      33.      75.00
     0.46     0.00      6.19      2.73     0.000     0.035     0.035     0.000     70.00   2015.57
 0.002039     280.      320.      240.        2         0         0      0.00    170.09   2185.66


FLOW DISTRIBUTION FOR SECNO=     60.60          CWSEL=     78.44

STA=    2016.    2165.    2186.
  PER Q=     98.2       1.8
   AREA=    872.7      35.6
    VEL=      6.2       2.7

*SECNO 63.630
    63.63     9.03     79.03      0.00      0.00     79.49      0.46      0.43      0.03    130.00
    5500.       0.     5175.     325.        0.      938.       81.       220.      34.      70.00
     0.47     0.00      5.52      4.00     0.000     0.035     0.035     0.000     70.00   2027.87
 0.001379     300.      260.      230.        0         0         0      0.00    160.17   2188.04


FLOW DISTRIBUTION FOR SECNO=     63.63          CWSEL=     79.03

STA=    2028.    2170.    2188.
  PER Q=     94.1       5.9
   AREA=    937.5      81.4
    VEL=      5.5       4.0
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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 66.700
   66.70     9.59    79.59     0.00     0.00    79.77     0.17     0.22     0.06    73.00
   5500.     400.    4582.     517.     223.    1298.     207.     230.      36.    70.00
    0.50     1.80     3.53     2.50    0.035    0.035    0.035    0.000    70.00  1924.07
0.000442     310.     310.     310.        2        0        0     0.00   304.10  2228.17


FLOW DISTRIBUTION FOR SECNO=     66.70          CWSEL=     79.59

STA=    1924.    1940.    1955.    2000.    2020.    2185.    2228.
  PER Q=      0.2      0.5      2.5      4.1     83.3      9.4
   AREA=     12.7     23.9     94.2     91.9   1297.9    207.1
    VEL=      0.8      1.2      1.5      2.4      3.5      2.5

*SECNO 70.800
   70.80     9.81    79.81     0.00     0.00    79.85     0.03     0.05     0.03    72.00
   5500.      58.    5268.     174.      76.    3611.     193.     257.      39.    70.00
    0.58     0.75     1.46     0.90    0.035    0.035    0.035    0.000    70.00  1960.46
0.000057     415.     415.     415.        2        0        0     0.00   428.79  2389.26


FLOW DISTRIBUTION FOR SECNO=     70.80          CWSEL=     79.81

STA=    1960.    1980.    2350.    2389.
  PER Q=      1.0     95.8      3.2
   AREA=     76.3   3611.3    192.6
    VEL=      0.8      1.5      0.9
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THIS RUN EXECUTED: Wed 28-JAN-1987 11:16:53.88

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*************************************************
 HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
 ERROR CORR -  01,02,03,04,05,06
 MODIFICATION -  50,51,52,53,54,55,56
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

DESIGN CONDITIONS(6A)

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
4.600	0.00	0.00	0.00	67.00	5500.00	73.71	0.00	74.00	9.28	4.60	1327.95	1805.32
5.650	105.00	0.00	0.00	67.00	5500.00	73.95	0.00	74.09	4.03	3.10	1838.72	2740.88
7.400	170.00	0.00	0.00	67.00	5500.00	74.00	0.00	74.18	5.08	3.50	1621.04	2440.48
9.250	160.00	0.00	0.00	67.00	5500.00	74.12	0.00	74.28	5.41	3.17	1792.97	2364.72
11.000	160.00	0.00	0.00	67.00	5500.00	74.19	0.00	74.36	4.70	3.34	1691.40	2537.22
12.450	150.00	0.00	0.00	67.00	5500.00	74.21	0.00	74.50	7.97	4.44	1293.81	1948.78
13.450	100.00	0.00	0.00	67.00	5500.00	74.29	0.00	74.60	10.35	4.70	1283.35	1709.65
14.400	110.00	0.00	0.00	67.00	5500.00	74.31	0.00	74.81	13.80	5.80	1005.35	1480.77
15.750	125.00	0.00	0.00	67.00	5500.00	74.71	0.00	74.97	6.71	4.25	1383.42	2123.46
17.050	125.00	0.00	0.00	67.00	5500.00	74.90	0.00	75.06	4.12	3.29	1729.25	2709.63
18.200	120.00	0.00	0.00	67.00	5500.00	74.77	0.00	75.38	18.67	7.20	956.13	1272.98
19.090	70.00	0.00	0.00	67.00	5500.00	75.19	0.00	75.56	12.88	5.03	1177.51	1532.66
19.100	10.00	0.00	0.00	67.00	5500.00	75.07	0.00	75.72	35.70	6.70	867.64	920.56
20.150	100.00	0.00	0.00	67.00	5500.00	75.52	0.00	76.07	27.79	6.13	951.00	1043.33
20.160	10.00	0.00	0.00	67.00	5500.00	75.89	0.00	76.17	8.60	4.42	1340.67	1875.78
22.050	185.00	0.00	0.00	67.00	5500.00	76.13	0.00	76.29	3.40	3.27	1818.07	2981.42
23.900	255.00	0.00	0.00	67.00	5500.00	76.24	0.00	76.36	2.35	2.86	2033.19	3591.13

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
26.100	220.00	0.00	0.00	67.00	5500.00	76.26	0.00	76.46	4.09	3.79	1617.72	2720.16
28.200	210.00	0.00	0.00	67.00	5500.00	76.42	0.00	76.54	2.57	2.99	1985.19	3429.33
30.000	175.00	0.00	0.00	67.00	5500.00	76.42	0.00	76.65	5.95	4.08	1464.68	2255.58
31.750	180.00	0.00	0.00	67.00	5500.00	76.60	0.00	76.74	2.87	3.25	1843.82	3246.91
33.800	200.00	0.00	0.00	67.00	5500.00	76.65	0.00	76.82	4.36	3.40	1678.76	2632.54
35.600	180.00	0.00	0.00	67.00	5500.00	76.73	0.00	76.91	5.07	3.49	1614.76	2443.76
37.800	210.00	0.00	0.00	67.00	5500.00	76.90	0.00	76.99	1.64	2.51	2355.60	4298.25
39.900	205.00	0.00	0.00	67.00	5500.00	76.93	0.00	77.03	1.78	2.60	2253.36	4121.65
42.000	210.00	0.00	0.00	67.00	5500.00	76.96	0.00	77.08	2.40	2.93	1982.45	3546.61
44.000	210.00	0.00	0.00	67.00	5500.00	77.04	0.00	77.13	1.83	2.52	2325.50	4064.31
46.100	200.00	0.00	0.00	70.00	5500.00	77.05	0.00	77.23	6.44	3.53	1618.41	2166.93
48.150	210.00	0.00	0.00	70.00	5500.00	77.15	0.00	77.45	10.75	4.54	1266.43	1677.85
50.200	200.00	0.00	0.00	70.00	5500.00	77.42	0.00	77.61	5.22	3.69	1563.47	2406.91
52.000	185.00	0.00	0.00	70.00	5500.00	77.57	0.00	77.71	3.74	3.00	1879.90	2842.72
54.450	210.00	0.00	0.00	70.00	5500.00	77.65	0.00	77.78	3.26	2.98	1931.25	3044.20
56.500	210.00	0.00	0.00	70.00	5500.00	77.69	0.00	77.92	6.72	3.93	1467.08	2121.84
58.500	200.00	0.00	0.00	70.00	5500.00	77.65	0.00	78.32	23.43	6.66	868.07	1136.29
60.600	320.00	0.00	0.00	70.00	5500.00	78.44	0.00	79.03	20.39	6.19	908.31	1218.08
63.630	260.00	0.00	0.00	70.00	5500.00	79.03	0.00	79.49	13.79	5.52	1018.92	1480.88
66.700	310.00	0.00	0.00	70.00	5500.00	79.59	0.00	79.77	4.42	3.53	1727.58	2615.41
70.800	415.00	0.00	0.00	70.00	5500.00	79.81	0.00	79.85	0.57	1.46	3880.31	7309.91

DESIGN CONDITIONS(6A)

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
4.600	5500.00	73.71	0.00	0.00	0.00	250.81	0.00
5.650	5500.00	73.95	0.00	0.24	0.00	289.22	105.00
7.400	5500.00	74.00	0.00	0.05	0.00	254.01	170.00
9.250	5500.00	74.12	0.00	0.12	0.00	337.61	160.00
11.000	5500.00	74.19	0.00	0.07	0.00	265.21	160.00
12.450	5500.00	74.21	0.00	0.02	0.00	205.27	150.00
13.450	5500.00	74.29	0.00	0.08	0.00	245.77	100.00
14.400	5500.00	74.31	0.00	0.02	0.00	173.08	110.00
15.750	5500.00	74.71	0.00	0.40	0.00	215.39	125.00
17.050	5500.00	74.90	0.00	0.19	0.00	259.21	125.00
18.200	5500.00	74.77	0.00	-0.13	0.00	215.05	120.00
19.090	5500.00	75.19	0.00	0.42	0.00	234.99	70.00
19.100	5500.00	75.07	0.00	-0.13	0.00	180.99	10.00
20.150	5500.00	75.52	0.00	0.46	0.00	181.00	100.00
20.160	5500.00	75.89	0.00	0.36	0.00	234.99	10.00
22.050	5500.00	76.13	0.00	0.25	0.00	281.80	185.00
23.900	5500.00	76.24	0.00	0.11	0.00	261.20	255.00
26.100	5500.00	76.26	0.00	0.02	0.00	270.53	220.00
28.200	5500.00	76.42	0.00	0.15	0.00	272.00	210.00
30.000	5500.00	76.42	0.00	0.00	0.00	230.30	175.00
31.750	5500.00	76.60	0.00	0.18	0.00	250.37	180.00
33.800	5500.00	76.65	0.00	0.06	0.00	256.49	200.00
35.600	5500.00	76.73	0.00	0.08	0.00	266.97	180.00
37.800	5500.00	76.90	0.00	0.17	0.00	278.78	210.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
39.900	5500.00	76.93	0.00	0.03	0.00	285.08	205.00
42.000	5500.00	76.96	0.00	0.03	0.00	255.88	210.00
44.000	5500.00	77.04	0.00	0.09	0.00	305.53	210.00
46.100	5500.00	77.05	0.00	0.00	0.00	302.73	200.00
48.150	5500.00	77.15	0.00	0.10	0.00	237.14	210.00
50.200	5500.00	77.42	0.00	0.26	0.00	246.57	200.00
52.000	5500.00	77.57	0.00	0.16	0.00	290.04	185.00
54.450	5500.00	77.65	0.00	0.08	0.00	290.13	210.00
56.500	5500.00	77.69	0.00	0.04	0.00	242.94	210.00
58.500	5500.00	77.65	0.00	-0.04	0.00	179.50	200.00
60.600	5500.00	78.44	0.00	0.79	0.00	170.09	320.00
63.630	5500.00	79.03	0.00	0.58	0.00	160.17	260.00
66.700	5500.00	79.59	0.00	0.57	0.00	304.10	310.00
70.800	5500.00	79.81	0.00	0.22	0.00	428.79	415.00

SUMMARY OF ERRORS AND SPECIAL NOTES

C>TYPE INTER6B.OP

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****************************************************
*  WATER SURFACE PROFILES                          *
*  VERSION OF NOVEMBER 1976                        *
*  UPDATED MAY 1984                                *
*                                                  *
*  RUN DATE: Wed 28-JAN-1987  TIME: 13:48:55.02    *
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS     *
*  THE HYDROLOGIC ENGINEERING CENTER *
*  609 SECOND STREET, SUITE D       *
*  DAVIS, CALIFORNIA 95616          *
*  (916) 756-1104 (FTS) 448-2105    *
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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
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HEC-2 COMPUTATIONS
PERFORMED BY:

ERIE AND ASSOCIATES, INC.
Consulting Engineers
3120 North 24th Street
Phoenix, Arizona 85016

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:::::::::::::::::::::::::::::::::::::::::::::
:::::::::::::::::::::::::::::::::::::::::::::
:::                                       :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION  :::
:::          By: John R. Haestad          :::
:::                                       :::
:::::::::::::::::::::::::::::::::::::::::::::
:::::::::::::::::::::::::::::::::::::::::::::
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==========
H A E S T A D M E T H O D S
==========

37 Brookside Road * Waterbury, Connecticut 06708 * (203) 753-9800

THIS RUN EXECUTED: Wed 28-JAN-1987 13:48:58.05

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
**************************************************
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T1      ARIZONA CANAL-INTERCEPTOR CHANNEL: SCOTTSDALE LAKES GOLF COURSE
T2      EA # 1192.2: CONTEMPORANEOUS FLOW IN INLET CHANNEL = 20,000 CFS
T3      DESIGN CONDITIONS(6B)              (INTER6B): USCE's LOW "n" VALUES

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        2.        0.        0.  0.000000      0.00       0.0       0.    74.340     0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    -1.000     0.000    -1.000     0.000     0.000     0.000     0.000     0.000     0.000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

   150.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000


NC      0.025     0.025     0.025     0.200     0.400     0.000     0.000     0.000     0.000     0.000
QT      1.000  5500.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
X1      4.600     5.000  1970.000  2115.000     0.000     0.000     0.000     0.000     0.000     0.000
GR     85.000  1800.000    80.000  1825.000    67.000  1970.000    67.000  2115.000    80.000  2175.000

X1      5.650     6.000  1850.000  2090.000   105.000   105.000   105.000     0.000     0.000     0.000
GR     82.000  1755.000    82.000  1800.000    67.000  1850.000    67.000  2090.000    75.000  2120.000
GR     83.000  2150.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000

X1      7.400    10.000  1835.000  2040.000   150.000   200.000   170.000     0.000     0.000     0.000
GR     80.000  1740.000    78.000  1750.000    78.000  1790.000    75.000  1810.000    70.000  1820.000
GR     67.000  1835.000    67.000  2040.000    70.000  2050.000    75.000  2070.000    80.000  2090.000

X1      9.250     8.000  1825.000  2105.000   140.000   210.000   160.000     0.000     0.000     0.000
GR     80.000  1710.000    80.000  1750.000    67.000  1825.000    67.000  1970.000    70.000  1985.000
GR     70.000  2105.000    75.000  2125.000    80.000  2140.000     0.000     0.000     0.000     0.000

X1     11.000    12.000  1840.000  2060.000   120.000   200.000   160.000     0.000     0.000     0.000
GR     80.000  1790.000    75.000  1810.000    70.000  1830.000    67.000  1840.000    67.000  1940.000
GR     68.000  1955.000    68.000  2005.000    67.000  2010.000    67.000  2060.000    70.000  2070.000
GR     75.000  2080.000    80.000  2100.000     0.000     0.000     0.000     0.000     0.000     0.000

X1     12.450    10.000  1890.000  2045.000   150.000   150.000   150.000     0.000     0.000     0.000
GR     79.000  1850.000    75.000  1870.000    70.000  1880.000    67.000  1890.000    67.000  2020.000
GR     68.000  2045.000    70.000  2060.000    75.000  2080.000    80.000  2100.000    84.000  2130.000
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X1	13.450	12.000	1905.000	2055.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	80.000	1765.000	80.000	1770.000	75.000	1850.000	67.000	1905.000	67.000	1960.000
GR	69.000	1975.000	69.000	2010.000	68.000	2020.000	68.000	2055.000	79.000	2135.000
GR	79.000	2150.000	82.000	2165.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	14.400	8.000	1925.000	2050.000	110.000	110.000	110.000	0.000	0.000	0.000
GR	80.000	1860.000	75.000	1900.000	70.000	1920.000	67.000	1925.000	67.000	2030.000
GR	70.000	2050.000	75.000	2080.000	80.000	2130.000	0.000	0.000	0.000	0.000
X1	15.750	10.000	1905.000	2050.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	80.000	1750.000	79.000	1805.000	78.000	1835.000	78.000	1860.000	67.000	1905.000
GR	67.000	2020.000	68.000	2050.000	70.000	2070.000	80.000	2110.000	83.000	2130.000
NC	0.025	0.025	0.025	0.300	0.500	0.000	0.000	0.000	0.000	0.000
X1	17.050	8.000	1860.000	2070.000	125.000	125.000	125.000	0.000	0.000	0.000
GR	78.000	1820.000	75.000	1830.000	70.000	1850.000	67.000	1860.000	67.000	2010.000
GR	70.000	2070.000	75.000	2090.000	80.000	2110.000	0.000	0.000	0.000	0.000
X1	18.200	11.000	1990.000	2050.000	120.000	120.000	120.000	0.000	0.000	0.000
GR	77.000	1850.000	75.000	1870.000	70.000	1900.000	71.000	1930.000	74.000	1940.000
GR	75.000	1950.000	74.000	1960.000	67.000	1990.000	67.000	2050.000	70.000	2060.000
GR	80.000	2125.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	19.090	13.000	1925.000	2085.000	70.000	70.000	70.000	0.000	0.000	0.000
GR	80.000	1890.000	75.000	1890.010	70.000	1925.000	69.000	1975.000	69.000	2002.000
GR	67.000	2003.000	67.000	2018.000	69.000	2019.000	69.000	2020.000	69.000	2040.000
GR	70.000	2085.000	75.000	2125.000	80.000	2125.000	0.000	0.000	0.000	0.000
NC	0.025	0.025	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	19.100	35.000	1925.010	2085.000	10.000	10.000	10.000	0.000	0.000	0.000
GR	79.500	1890.000	75.000	1890.010	71.300	1916.000	79.500	1916.010	79.500	1925.000
GR	70.000	1925.010	69.500	1952.000	79.500	1952.010	79.500	1961.000	69.300	1961.010
GR	69.000	1975.000	69.000	1988.000	79.500	1988.010	79.500	1997.000	69.000	1997.010
GR	69.000	2002.000	67.000	2003.000	67.000	2018.000	69.000	2019.000	69.000	2020.000
GR	69.000	2024.000	79.500	2024.010	79.500	2033.000	69.000	2033.010	69.400	2060.000
GR	79.500	2060.010	79.500	2069.000	69.600	2069.010	70.000	2085.000	71.400	2096.000
GR	79.500	2096.010	79.500	2105.000	72.500	2105.010	75.000	2125.000	80.000	2125.010
BT	2.000	1890.000	84.200	79.500	2125.000	82.200	79.500	0.000	0.000	0.000
X1	20.150	35.000	1925.010	2085.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	79.500	1890.000	75.000	1890.010	71.300	1916.000	79.500	1916.010	79.500	1925.000
GR	70.000	1925.010	69.500	1952.000	79.500	1952.010	79.500	1961.000	69.300	1961.010
GR	69.000	1975.000	69.000	1988.000	79.500	1988.010	79.500	1997.000	69.000	1997.010
GR	69.000	2002.000	67.000	2003.000	67.000	2018.000	69.000	2019.000	69.000	2020.000
GR	69.000	2024.000	79.500	2024.010	79.500	2033.000	69.000	2033.010	69.400	2060.000
GR	79.500	2060.010	79.500	2069.000	69.600	2069.010	70.000	2085.000	71.400	2096.000
GR	79.500	2096.010	79.500	2105.000	72.500	2105.010	75.000	2125.000	80.000	2125.010
BT	2.000	1890.000	84.200	79.500	2125.000	82.200	79.500	0.000	0.000	0.000

X1	20.160	13.000	1925.000	2085.000	10.000	10.000	10.000	0.000	0.000	0.000
GR	80.000	1890.000	75.000	1890.010	70.000	1925.000	69.000	1975.000	69.000	2002.000
GR	67.000	2003.000	67.000	2018.000	69.000	2019.000	69.000	2020.000	69.000	2040.000
GR	70.000	2085.000	75.000	2125.000	80.000	2125.000	0.000	0.000	0.000	0.000
NC	0.025	0.025	0.025	0.200	0.400	0.000	0.000	0.000	0.000	0.000
X1	22.050	8.000	1870.000	2040.000	185.000	185.000	185.000	0.000	0.000	0.000
GR	80.000	1735.000	80.000	1835.000	70.000	1870.000	67.000	1940.000	67.000	2040.000
GR	75.000	2095.000	76.000	2130.000	80.000	2140.000	0.000	0.000	0.000	0.000
X1	23.900	8.000	1900.000	2080.000	240.000	260.000	255.000	0.000	0.000	0.000
GR	78.000	1815.000	78.000	1863.000	70.000	1895.000	67.000	1900.000	67.000	2080.000
GR	70.000	2100.000	75.000	2125.000	80.000	2150.000	0.000	0.000	0.000	0.000
X1	26.100	8.000	1950.000	2080.000	220.000	220.000	220.000	0.000	0.000	0.000
GR	75.000	1850.000	75.000	1915.000	70.000	1940.000	67.000	1950.000	67.000	2080.000
GR	70.000	2090.000	75.000	2110.000	78.000	2135.000	0.000	0.000	0.000	0.000
X1	28.200	10.000	1900.000	2060.000	210.000	220.000	210.000	0.000	0.000	0.000
GR	80.000	1830.000	67.000	1900.000	67.000	1985.000	68.000	1995.000	68.000	2020.000
GR	67.000	2025.000	67.000	2060.000	70.000	2085.000	75.000	2100.000	77.000	2130.000
X1	30.000	13.000	1890.000	2040.000	175.000	175.000	175.000	0.000	0.000	0.000
GR	80.000	1760.000	80.000	1835.000	75.000	1840.000	70.000	1890.000	69.000	1940.000
GR	67.000	1950.000	67.000	1990.000	69.000	2005.000	70.000	2040.000	80.000	2085.000
GR	83.000	2100.000	80.000	2115.000	80.000	2130.000	0.000	0.000	0.000	0.000
X1	31.750	11.000	1890.000	2030.000	180.000	180.000	180.000	0.000	0.000	0.000
GR	79.000	1825.000	75.000	1860.000	70.000	1875.000	67.000	1890.000	67.000	2030.000
GR	70.000	2040.000	71.000	2050.000	72.000	2060.000	73.000	2080.000	75.000	2090.000
GR	80.000	2110.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	33.800	9.000	1905.000	2090.000	190.000	210.000	200.000	0.000	0.000	0.000
GR	79.000	1830.000	75.000	1870.000	70.000	1890.000	67.000	1905.000	67.000	1950.000
GR	69.000	1955.000	70.000	1990.000	70.000	2090.000	80.000	2120.000	0.000	0.000
X1	35.600	10.000	1870.000	2090.000	170.000	200.000	180.000	0.000	0.000	0.000
GR	80.000	1805.000	79.000	1830.000	75.000	1860.000	70.000	1870.000	67.000	1880.000
GR	67.000	1960.000	71.000	1985.000	72.000	2060.000	75.000	2090.000	80.000	2160.000
X1	37.800	7.000	1885.000	2075.000	180.000	240.000	210.000	0.000	0.000	0.000
GR	80.000	1770.000	80.000	1835.000	75.000	1840.000	67.000	1885.000	67.000	2075.000
GR	80.000	2130.000	80.000	2150.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	39.900	8.000	1875.000	2070.000	200.000	210.000	205.000	0.000	0.000	0.000
GR	79.000	1830.000	75.000	1850.000	70.000	1870.000	67.000	1875.000	67.000	2060.000
GR	70.000	2070.000	75.000	2110.000	80.000	2150.000	0.000	0.000	0.000	0.000

X1	42.000	8.000	1930.000	2115.000	210.000	215.000	210.000	0.000	0.000	0.000
GR	83.000	1860.000	75.000	1905.000	70.000	1930.000	67.000	1955.000	67.000	2070.000
GR	70.000	2115.000	75.000	2140.000	83.000	2180.000	0.000	0.000	0.000	0.000
X1	44.000	14.000	1970.000	2170.000	225.000	180.000	210.000	0.000	0.000	0.000
GR	80.000	1870.000	79.000	1905.000	75.000	1935.000	70.000	1960.000	69.000	1970.000
GR	68.000	2045.000	69.000	2060.000	69.000	2075.000	67.000	2080.000	67.000	2170.000
GR	75.000	2215.000	80.000	2240.000	88.000	2275.000	85.000	2295.000	0.000	0.000
X1	46.100	10.000	1900.000	2145.000	230.000	160.000	200.000	0.000	0.000	0.000
GR	82.000	1790.000	82.000	1820.000	80.000	1855.000	73.000	1900.000	72.500	1935.000
GR	72.000	2000.000	70.000	2030.000	70.000	2145.000	80.000	2190.000	82.000	2250.000
X1	48.150	15.000	1920.000	2085.000	230.000	190.000	210.000	0.000	0.000	0.000
GR	80.000	1880.000	75.000	1890.000	71.000	1920.000	71.000	1980.000	72.000	2000.000
GR	73.000	2010.000	73.000	2020.000	70.000	2035.000	70.000	2050.000	72.000	2085.000
GR	72.000	2110.000	80.000	2130.000	80.000	2155.000	81.000	2210.000	81.000	2240.000
X1	50.200	8.000	1880.000	2060.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	80.000	1840.000	75.000	1860.000	70.000	1880.000	70.000	2060.000	75.000	2080.000
GR	80.000	2115.000	87.000	2160.000	87.000	2210.000	0.000	0.000	0.000	0.000
X1	52.000	7.000	1855.000	2110.000	180.000	185.000	185.000	0.000	0.000	0.000
GR	80.000	1760.000	80.000	1830.000	74.000	1855.000	73.000	1890.000	70.000	1910.000
GR	70.000	2110.000	85.000	2150.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	54.450	5.000	1910.000	2130.000	210.000	200.000	210.000	0.000	0.000	0.000
GR	78.000	1860.000	75.000	1885.000	70.000	1910.000	70.000	2130.000	80.000	2160.000
X1	56.500	11.000	1915.000	2090.000	210.000	200.000	210.000	0.000	0.000	0.000
GR	79.000	1865.000	78.000	1875.000	75.000	1895.000	70.000	1915.000	70.000	1960.000
GR	72.000	1975.000	73.000	2010.000	72.000	2030.000	70.000	2040.000	70.000	2090.000
GR	75.000	2120.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	58.500	8.000	2010.000	2145.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	80.000	1900.000	80.000	1950.000	74.000	2010.000	70.000	2075.000	70.000	2100.000
GR	75.000	2145.000	80.000	2160.000	84.000	2190.000	0.000	0.000	0.000	0.000
X1	60.600	12.000	1920.000	2165.000	280.000	240.000	320.000	0.000	0.000	0.000
GR	81.000	1855.000	80.000	1895.000	80.000	1920.000	80.000	1950.000	80.000	1980.000
GR	80.000	2000.000	76.000	2040.000	70.000	2090.000	70.000	2110.000	70.000	2140.000
GR	75.000	2165.000	80.000	2195.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	63.630	11.000	2055.000	2170.000	300.000	230.000	260.000	0.000	0.000	0.000
GR	80.000	1920.000	80.000	1950.000	81.000	1955.000	82.000	1980.000	82.000	2010.000
GR	77.000	2040.000	72.000	2065.000	72.000	2130.000	70.000	2135.000	70.000	2170.000
GR	80.000	2190.000	86.000	2230.000	82.000	2265.000	0.000	0.000	0.000	0.000

X1	66.700	10.000	2020.000	2185.000	310.000	310.000	310.000	0.000	0.000	0.000
GR	80.000	1920.000	78.000	1940.000	78.000	1955.000	77.000	2000.000	73.000	2020.000
GR	72.000	2070.000	72.000	2130.000	70.000	2170.000	70.000	2185.000	80.000	2230.000
X1	70.800	6.000	1980.000	2350.000	415.000	415.000	415.000	0.000	0.000	0.000
GR	80.000	1960.000	72.000	1980.000	70.000	2000.000	70.000	2045.000	70.000	2350.000
GR	80.000	2390.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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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


*PROF 1

CCHV=   0.200 CEHV=   0.400
*SECNO 4.600
     4.60     7.34    74.34     0.00    74.34    74.57     0.23     0.00     0.00    67.00
    5500.     781.    4401.     319.     300.    1064.     124.       0.       0.    67.00
     0.00     2.60     4.13     2.57    0.025    0.025    0.025    0.000    67.00  1888.13
 0.000339       0.       0.       0.        0        0        0     0.00   260.75  2148.88


FLOW DISTRIBUTION FOR SECNO=      4.60          CWSEL=     74.34

STA=    1888.    1970.    2115.    2149.
  PER Q=      14.2     80.0      5.8
   AREA=     300.5   1064.3    124.3
    VEL=       2.6      4.1      2.6

*SECNO 5.650
     5.65     7.50    74.50     0.00     0.00    74.62     0.12     0.02     0.02    67.00
    5500.     164.    5150.     186.      94.    1799.     105.       4.       1.    67.00
     0.01     1.75     2.86     1.76    0.025    0.025    0.025    0.000    67.00  1825.01
 0.000158     105.     105.     105.        2        0        0     0.00   293.10  2118.11


FLOW DISTRIBUTION FOR SECNO=      5.65          CWSEL=     74.50

STA=    1825.    1850.    2090.    2118.
  PER Q=       3.0     93.6      3.4
   AREA=      93.7   1799.2    105.4
    VEL=       1.8      2.9      1.8

*SECNO 7.400
     7.40     7.51    74.51     0.00     0.00    74.66     0.16     0.03     0.01    67.00
    5500.     277.    5002.     221.     110.    1539.     101.      12.       2.    67.00
     0.03     2.51     3.25     2.20    0.025    0.025    0.025    0.000    67.00  1810.99
 0.000203     150.     170.     200.        2        0        0     0.00   257.04  2068.02


FLOW DISTRIBUTION FOR SECNO=      7.40          CWSEL=     74.51

STA=    1811.    1820.    1835.    2040.    2050.    2068.
  PER Q=       0.5      4.5     90.9      3.0      1.1
   AREA=      20.3     90.1   1538.7     60.1     40.6
    VEL=       1.4      2.8      3.3      2.7      1.4
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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 9.250
     9.25      7.57     74.57      0.00      0.00     74.70      0.13      0.03      0.01     67.00
    5500.      346.     5093.       62.      165.     1738.       42.       18.        3.     70.00
     0.04      2.09      2.93      1.48     0.025     0.025     0.025     0.000     67.00   1781.30
 0.000213      140.      160.      210.         2         0         0      0.00    342.00   2123.30


FLOW DISTRIBUTION FOR SECNO=      9.25          CWSEL=     74.57

STA=    1781.    1825.    2105.    2123.
  PER Q=      6.3      92.6       1.1
   AREA=    165.5    1738.3      41.9
    VEL=      2.1       2.9       1.5

*SECNO 11.000
    11.00      7.59     74.59      0.00      0.00     74.74      0.15      0.03      0.01     67.00
    5500.      226.     5080.      194.      103.     1612.       82.       25.        4.     67.00
     0.06      2.18      3.15      2.36     0.025     0.025     0.025     0.000     67.00   1811.59
 0.000198      120.      160.      200.         1         0         0      0.00    267.61   2079.20


FLOW DISTRIBUTION FOR SECNO=     11.00          CWSEL=     74.59

STA=    1812.    1830.    1840.    2060.    2070.    2079.
  PER Q=      1.1       3.0      92.4       3.0       0.5
   AREA=     42.3      61.0    1612.3      61.0      21.2
    VEL=      1.4       2.7       3.2       2.7       1.4

*SECNO 12.450
    12.45      7.57     74.57      0.00      0.00     74.83      0.26      0.04      0.04     67.00
    5500.      253.     4883.      365.       82.     1160.      125.       31.        5.     68.00
     0.07      3.10      4.21      2.91     0.025     0.025     0.025     0.000     67.00   1870.87
 0.000342      150.      150.      150.         2         0         0      0.00    207.40   2078.26


FLOW DISTRIBUTION FOR SECNO=     12.45          CWSEL=     74.57

STA=    1871.    1880.    1890.    2045.    2060.    2078.
  PER Q=      0.7       3.9      88.8       5.2       1.4
   AREA=     20.9      60.7    1160.3      83.5      41.7
    VEL=      1.8       3.6       4.2       3.4       1.9
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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 13.450
    13.45     7.60     74.60      0.00      0.00     74.87      0.27      0.04      0.01     67.00
    5500.     600.     4464.     436.      198.      1004.     158.      34.        5.      68.00
     0.07     3.03      4.45     2.76     0.025     0.025     0.025     0.000     67.00   1852.80
 0.000444     100.      100.     100.        0         0         0      0.00    250.15   2102.95


FLOW DISTRIBUTION FOR SECNO=     13.45          CWSEL=     74.60

STA=    1853.    1905.    2055.    2103.
  PER Q=     10.9     81.2      7.9
   AREA=    198.2   1004.0    158.1
    VEL=      3.0      4.4      2.8

*SECNO 14.400
    14.40     7.54     74.54      0.00      0.00     75.00      0.46      0.06      0.07     67.00
    5500.     238.     5104.     158.       71.      913.      62.       37.        6.      70.00
     0.08     3.34      5.59     2.55     0.025     0.025     0.025     0.000     67.00   1901.83
 0.000626     110.      110.     110.        2         0         0      0.00    175.42   2077.25


FLOW DISTRIBUTION FOR SECNO=     14.40          CWSEL=     74.54

STA=    1902.    1920.    1925.    2050.    2077.
  PER Q=      1.9      2.4     92.8      2.9
   AREA=     41.3     30.2    912.8     61.9
    VEL=      2.5      4.5      5.6      2.5

*SECNO 15.750
    15.75     7.85     74.85      0.00      0.00     75.10      0.25      0.05      0.04     67.00
    5500.     328.     4681.     492.      126.      1124.     164.      40.        6.      68.00
     0.09     2.60      4.17     3.00     0.025     0.025     0.025     0.000     67.00   1872.88
 0.000320     125.      125.     125.        2         0         0      0.00    216.53   2089.41


FLOW DISTRIBUTION FOR SECNO=     15.75          CWSEL=     74.85

STA=    1873.    1905.    2050.    2070.    2089.
  PER Q=      6.0     85.1      7.3      1.6
   AREA=    126.1   1123.6    117.0     47.1
    VEL=      2.6      4.2      3.4      1.9
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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=   0.300 CEHV=   0.500
*SECNO 17.050
    17.05     8.00    75.00     0.00     0.00    75.16     0.16     0.03     0.03    67.00
    5500.     261.    5163.     76.      115.    1590.     50.      45.      7.      70.00
     0.10     2.27     3.25     1.52    0.025    0.025    0.025    0.000    67.00  1830.00
 0.000201     125.     125.     125.       2        0        0     0.00   260.00  2090.00


FLOW DISTRIBUTION FOR SECNO=     17.05          CWSEL=     75.00

STA=    1830.    1850.    1860.    2070.    2090.
  PER Q=      1.4      3.4     93.9      1.4
   AREA=     50.0     65.0   1590.1     50.0
    VEL=      1.5      2.9      3.2      1.5

*SECNO 18.200

3265 DIVIDED FLOW

    18.20     7.83    74.83     0.00     0.00    75.42     0.59     0.04     0.22    67.00
    5500.    1537.    3340.     624.     360.     470.     139.      49.      8.      67.00
     0.10     4.27     7.11     4.48    0.025    0.025    0.025    0.000    67.00  1871.03
 0.000920     120.     120.     120.       2        0        0     0.00   216.94  2091.39


FLOW DISTRIBUTION FOR SECNO=     18.20          CWSEL=     74.83

STA=    1871.    1900.    1930.    1940.    1948.    1960.    1990.    2050.    2060.    2091.
  PER Q=      4.1     11.3      1.3      0.1      0.1     11.1     60.7      6.9      4.4
   AREA=     70.0    129.9     23.3      3.4      3.4    129.9    469.7     63.3     75.8
    VEL=      3.2      4.8      3.1      1.0      1.0      4.7      7.1      6.0      3.2

*SECNO 19.090
    19.09     8.17    75.17     0.00     0.00    75.54     0.37     0.05     0.07    70.00
    5500.     274.    4913.     313.      94.     972.     107.      50.      8.      70.00
     0.11     2.92     5.05     2.93    0.025    0.025    0.025    0.000    67.00  1890.01
 0.000665      70.      70.      70.       2        0        0     0.00   234.99  2125.00


FLOW DISTRIBUTION FOR SECNO=     19.09          CWSEL=     75.17

STA=    1890.    1925.    2085.    2125.
  PER Q=      5.0     89.3      5.7
   AREA=     93.6    972.3    107.0
    VEL=      2.9      5.1      2.9
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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 19.100

3265 DIVIDED FLOW

    19.10     8.03     75.03      0.00      0.00     75.70      0.67      0.01      0.15     70.00
    5500.     174.     4988.      338.       49.      740.       73.       51.        8.     70.00
     0.11     3.55      6.74      4.61     0.025     0.025     0.025     0.000     67.00   1890.01
 0.001855      10.       10.       10.         2         0         0      0.00    180.99   2125.00


FLOW DISTRIBUTION FOR SECNO=     19.10          CWSEL=     75.03

STA=    1890.    1916.    2085.    2096.    2125.
  PER Q=      3.2     90.7      4.9      1.3
   AREA=     49.0    739.5     47.7     25.7
    VEL=      3.5      6.7      5.6      2.8

#SECNO 20.150

3265 DIVIDED FLOW

    20.15     8.29     75.29      0.00      0.00     75.89      0.60      0.17      0.02     70.00
    5500.     198.     4942.      360.       56.      772.       81.       53.        9.     70.00
     0.11     3.55      6.40      4.41     0.025     0.025     0.025     0.000     67.00   1890.01
 0.001603      100.      100.      100.         2         0         0      0.00    181.00   2125.00


FLOW DISTRIBUTION FOR SECNO=     20.15          CWSEL=     75.29

STA=    1890.    1916.    2085.    2096.    2125.
  PER Q=      3.6     89.9      4.9      1.6
   AREA=     55.8    772.0     50.6     30.9
    VEL=      3.6      6.4      5.4      2.9

#SECNO 20.160
    20.16     8.69     75.69      0.00      0.00     75.99      0.30      0.01      0.09     70.00
    5500.     312.     4829.      358.      112.     1056.      128.       53.        9.     70.00
     0.11     2.79      4.57      2.80     0.025     0.025     0.025     0.000     67.00   1890.01
 0.000489      10.       10.       10.         2         0         0      0.00    234.99   2125.00


FLOW DISTRIBUTION FOR SECNO=     20.16          CWSEL=     75.69

STA=    1890.    1925.    2085.    2125.
  PER Q=      5.7     87.8      6.5
   AREA=    111.8   1055.7    127.8
    VEL=      2.8      4.6      2.8
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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=   0.200 CEHV=   0.400
*SECNO 22.050
    22.05     8.91    75.91     0.00     0.00    76.07     0.16     0.05     0.03    70.00
    5500.     101.    4754.     645.      61.    1410.     284.      59.      10.    67.00
     0.13     1.65     3.37     2.27    0.025    0.025    0.025    0.000    67.00  1849.32
 0.000192     185.     185.     185.        2        0        0     0.00   277.51  2126.83


FLOW DISTRIBUTION FOR SECNO=     22.05          CWSEL=     75.91

STA=    1849.    1870.    2040.    2095.    2127.
  PER Q=      1.8     86.4     11.6      0.1
   AREA=     61.1   1409.6    270.0     14.5
    VEL=      1.7      3.4      2.4      0.5

*SECNO 23.900
    23.90     8.99    75.99     0.00     0.00    76.12     0.13     0.04     0.01    67.00
    5500.     189.    4785.     526.     109.    1619.     240.      70.      11.    67.00
     0.15     1.72     2.96     2.19    0.025    0.025    0.025    0.000    67.00  1871.02
 0.000132     240.     255.     260.        0        0        0     0.00   258.95  2129.97


FLOW DISTRIBUTION FOR SECNO=     23.90          CWSEL=     75.99

STA=    1871.    1895.    1900.    2080.    2100.    2125.    2130.
  PER Q=      1.8      1.6     87.0      7.1      2.5      0.0
   AREA=     71.9     37.5   1619.1    149.9     87.4      2.5
    VEL=      1.4      2.4      3.0      2.6      1.6      0.4

*SECNO 26.100
3280 CROSS SECTION     26.10 EXTENDED      0.98 FEET

    26.10     8.98    75.98     0.00     0.00    76.19     0.22     0.04     0.04    67.00
    5500.     491.    4610.     399.     225.    1167.     148.      79.      13.    67.00
     0.17     2.18     3.95     2.69    0.025    0.025    0.025    0.000    67.00  1850.00
 0.000237     220.     220.     220.        2        0        0     0.00   268.14  2118.14


FLOW DISTRIBUTION FOR SECNO=     26.10          CWSEL=     75.98

STA=    1850.    1915.    1940.    1950.    2080.    2090.    2110.    2118.
  PER Q=      1.0      3.3      4.6     83.8      4.6      2.6      0.0
   AREA=     63.5     86.9     74.8   1166.9     74.8     69.5      4.0
    VEL=      0.9      2.1      3.4      4.0      3.4      2.1      0.6
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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 28.200
    28.20     9.11    76.11     0.00     0.00    76.25     0.14     0.04     0.02    67.00
    5500.     440.    4435.     625.     224.    1426.     254.      87.      14.    67.00
     0.19     1.97     3.11     2.46    0.025    0.025    0.025    0.000    67.00  1850.93
 0.000148     210.     210.     220.        2        0        0     0.00   265.76  2116.69


FLOW DISTRIBUTION FOR SECNO=     28.20          CWSEL=     76.11

STA=    1851.    1900.    2060.    2085.    2100.    2117.
  PER Q=      8.0     80.6      9.7      1.6      0.1
   AREA=    223.6   1425.6    190.3     54.2      9.3
    VEL=      2.0      3.1      2.8      1.6      0.5

‡SECNO 30.000
    30.00     9.07    76.07     0.00     0.00    76.34     0.27     0.04     0.05    70.00
    5500.     469.    4838.     193.     179.    1124.      83.      94.      15.    70.00
     0.20     2.62     4.31     2.32    0.025    0.025    0.025    0.000    67.00  1838.93
 0.000359     175.     175.     175.        2        0        0     0.00   228.41  2067.33


FLOW DISTRIBUTION FOR SECNO=     30.00          CWSEL=     76.07

STA=    1839.    1890.    2040.    2067.
  PER Q=      8.5     88.0      3.5
   AREA=    179.3   1123.6     83.0
    VEL=      2.6      4.3      2.3

‡SECNO 31.750
    31.75     9.24    76.24     0.00     0.00    76.40     0.16     0.04     0.02    67.00
    5500.     452.    4406.     643.     179.    1294.     283.     101.      16.    67.00
     0.22     2.52     3.41     2.28    0.025    0.025    0.025    0.000    67.00  1849.14
 0.000169     180.     180.     180.        2        0        0     0.00   245.83  2094.96


FLOW DISTRIBUTION FOR SECNO=     31.75          CWSEL=     76.24

STA=    1849.    1860.    1875.    1890.    2030.    2040.    2050.    2060.    2080.    2090.    2095.
  PER Q=      0.1      1.8      6.3     80.1      4.1      2.6      1.9      2.5      0.5      0.0
   AREA=      6.7     56.1    116.1   1293.8     77.4     57.4     47.4     74.8     22.4      3.1
    VEL=      0.6      1.8      3.0      3.4      2.9      2.5      2.2      1.9      1.3      0.6
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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 33.800
    33.80     9.26     76.26      0.00      0.00     76.46      0.19      0.04      0.01     67.00
    5500.     618.     4763.      118.      200.     1321.      59.      108.       17.      70.00
     0.23     3.09      3.60      2.01     0.025     0.025     0.025     0.000     67.00   1857.35
 0.000268     190.      200.      210.         2         0         0      0.00    251.44   2108.79


FLOW DISTRIBUTION FOR SECNO=     33.80          CWSEL=     76.26

STA=    1857.    1870.    1890.    1905.    2090.    2109.
  PER Q=      0.1      3.2      8.0     86.6      2.2
   AREA=      8.0     75.3    116.5   1321.4     58.9
    VEL=      0.7      2.3      3.8      3.6      2.0

*SECNO 35.600
    35.60     9.31     76.31      0.00      0.00     76.52      0.21      0.05      0.01     70.00
    5500.      96.     5394.        9.       44.     1450.      12.      115.       18.      75.00
     0.25     2.17      3.72      0.80     0.025     0.025     0.025     0.000     67.00   1850.22
 0.000319     170.      180.      200.         0         0         0      0.00    258.05   2108.26


FLOW DISTRIBUTION FOR SECNO=     35.60          CWSEL=     76.31

STA=    1850.    1860.    1870.    2090.    2108.
  PER Q=      0.1      1.7     98.1      0.2
   AREA=      6.4     38.0   1449.5     11.9
    VEL=      0.8      2.4      3.7      0.8

*SECNO 37.800
    37.80     9.47     76.47      0.00      0.00     76.57      0.10      0.03      0.02     67.00
    5500.     446.     4744.      310.      247.     1800.     190.      124.       19.      67.00
     0.27     1.80      2.64      1.63     0.025     0.025     0.025     0.000     67.00   1838.53
 0.000098     180.      210.      240.         2         0         0      0.00    276.56   2115.08


FLOW DISTRIBUTION FOR SECNO=     37.80          CWSEL=     76.47

STA=    1839.    1885.    2075.    2115.
  PER Q=      8.1     86.3      5.6
   AREA=    247.4   1800.2    189.9
    VEL=      1.8      2.6      1.6
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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 39.900
    39.90     9.49     76.49      0.00      0.00     76.60      0.11      0.02      0.00     67.00
    5500.     213.     5037.      251.      125.     1835.      168.      134.       21.     70.00
     0.29     1.70      2.74      1.49     0.025     0.025     0.025     0.000     67.00   1842.55
 0.000108     200.      205.      210.         2         0         0      0.00    279.36   2121.91


FLOW DISTRIBUTION FOR SECNO=     39.90          CWSEL=     76.49

STA=    1843.    1850.    1870.    1875.    2070.    2110.    2122.
  PER Q=      0.1      2.2      1.6     91.6      4.5      0.1
   AREA=      5.5     79.8     39.9   1835.4    159.6      8.9
    VEL=      0.5      1.5      2.2      2.7      1.5      0.5

*SECNO 42.000
    42.00     9.50     76.50      0.00      0.00     76.64      0.14      0.03      0.01     70.00
    5500.     184.     5133.      183.      106.     1653.      106.      143.       22.     70.00
     0.31     1.72      3.11      1.73     0.025     0.025     0.025     0.000     67.00   1896.54
 0.000147     210.      210.      215.         1         0         0      0.00    250.97   2147.52


FLOW DISTRIBUTION FOR SECNO=     42.00          CWSEL=     76.50

STA=    1897.    1905.    1930.    2115.    2140.    2148.
  PER Q=      0.1      3.3     93.3      3.3      0.1
   AREA=      6.4    100.1   1653.1    100.1      5.7
    VEL=      0.6      1.8      3.1      1.8      0.6

*SECNO 44.000
    44.00     9.57     76.57      0.00      0.00     76.67      0.10      0.03      0.01     69.00
    5500.     331.     4672.      497.      182.     1744.      257.      153.       23.     67.00
     0.33     1.82      2.68      1.93     0.025     0.025     0.025     0.000     67.00   1923.22
 0.000113     225.      210.      180.         2         0         0      0.00    299.63   2222.85


FLOW DISTRIBUTION FOR SECNO=     44.00          CWSEL=     76.57

STA=    1923.    1935.    1960.    1970.    2170.    2215.    2223.
  PER Q=      0.1      2.9      3.0     84.9      9.0      0.1
   AREA=      9.3    101.8     70.7   1744.1    250.7      6.2
    VEL=      0.5      1.6      2.3      2.7      2.0      0.5
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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 46.100
    46.10     6.54    76.54     0.00     0.00    76.76     0.23     0.04     0.05    73.00
    5500.      73.     5164.     262.      40.    1329.      96.     161.      25.    70.00
     0.35     1.83     3.89     2.73    0.025    0.025    0.025    0.000    70.00  1877.27
 0.000449     230.     200.     160.        2        0        0     0.00   297.15  2174.41


FLOW DISTRIBUTION FOR SECNO=     46.10          CWSEL=     76.54

STA=    1877.    1900.    2145.    2174.
  PER Q=      1.3      93.9      4.8
   AREA=     40.2    1328.9     96.1
    VEL=      1.8       3.9      2.7

*SECNO 48.150
    48.15     6.57    76.57     0.00     0.00    76.94     0.38     0.12     0.06    71.00
    5500.     418.     4485.     597.     110.     881.     140.     168.      26.    72.00
     0.36     3.82     5.09     4.25    0.025    0.025    0.025    0.000    70.00  1886.86
 0.000788     230.     210.     190.        2        0        0     0.00   234.56  2121.42


FLOW DISTRIBUTION FOR SECNO=     48.15          CWSEL=     76.57

STA=    1887.    1890.    1920.    2085.    2110.    2121.
  PER Q=      0.1       7.5     81.6      9.5      1.3
   AREA=      2.5     107.1    881.4    114.2     26.1
    VEL=      1.3       3.9      5.1      4.6      2.8

*SECNO 50.200
    50.20     6.83    76.83     0.00     0.00    77.07     0.24     0.10     0.03    70.00
    5500.     260.     4974.     266.      93.    1230.      98.     174.      27.    70.00
     0.37     2.79     4.04     2.70    0.025    0.025    0.025    0.000    70.00  1852.67
 0.000357     200.     200.     200.        2        0        0     0.00   240.16  2092.83


FLOW DISTRIBUTION FOR SECNO=     50.20          CWSEL=     76.83

STA=    1853.    1860.    1880.    2060.    2080.    2093.
  PER Q=      0.1       4.6     90.4      4.6      0.2
   AREA=      6.7      86.7   1229.9     86.7     11.8
    VEL=      1.0       2.9      4.0      2.9      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 52.000
    52.00     6.98     76.98      0.00      0.00     77.14      0.16      0.06      0.02     74.00
    5500.      23.     5341.      137.      19.      1627.      65.      180.       28.      70.00
     0.39     1.22      3.28      2.10     0.025     0.025     0.025     0.000     70.00   1842.58
 0.000258     180.      185.      185.        2         0         0      0.00    286.03   2128.61


FLOW DISTRIBUTION FOR SECNO=     52.00          CWSEL=     76.98

STA=    1843.    1855.    2110.    2129.
  PER Q=      0.4      97.1      2.5
   AREA=     18.5    1627.5     65.0
    VEL=      1.2       3.3      2.1

*SECNO 54.450
    54.45     7.04     77.04      0.00      0.00     77.20      0.16      0.05      0.00     70.00
    5500.     289.     5063.      148.      131.     1550.      74.      189.       29.      70.00
     0.41     2.21      3.27      1.99     0.025     0.025     0.025     0.000     70.00   1867.97
 0.000224     210.      210.      200.         0         0         0      0.00    283.16   2151.13


FLOW DISTRIBUTION FOR SECNO=     54.45          CWSEL=     77.04

STA=    1868.    1885.    1910.    2130.    2151.
  PER Q=      0.3       5.0     92.1      2.7
   AREA=     17.4     113.6   1549.6     74.4
    VEL=      0.9       2.4      3.3      2.0

*SECNO 56.500
3280 CROSS SECTION     56.50 EXTENDED      2.03 FEET

    56.50     7.03     77.03      0.00      0.00     77.31      0.28      0.07      0.05     70.00
    5500.     339.     4695.      466.      104.     1068.      136.      196.       31.      70.00
     0.42     3.25      4.40      3.43     0.025     0.025     0.025     0.000     70.00   1881.46
 0.000492     210.      210.      200.         2         0         0      0.00    238.54   2120.00


FLOW DISTRIBUTION FOR SECNO=     56.50          CWSEL=     77.03

STA=    1881.    1895.    1915.    2090.    2120.
  PER Q=      0.3       5.8     85.4      8.5
   AREA=     13.7      90.6   1067.8    135.9
    VEL=      1.3       3.5      4.4      3.4
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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 58.500

3301 HV CHANGED MORE THAN HVINS

    58.50     6.81    76.81     0.00     0.00    77.76     0.95     0.18     0.27    74.00
    5500.     134.    5354.      12.      39.     677.       5.     201.      32.    75.00
     0.43     3.38     7.91     2.44    0.025    0.025    0.025    0.000    70.00  1981.89
 0.002071     200.     200.     200.        2        0        0     0.00   168.54  2150.43


FLOW DISTRIBUTION FOR SECNO=     58.50          CWSEL=     76.81

STA=    1982.    2010.    2145.    2150.
  PER Q=      2.4     97.4      0.2
   AREA=     39.5    676.9      4.9
    VEL=      3.4      7.9      2.4

*SECNO 60.600
    60.60     7.54    77.54     0.00     0.00    78.37     0.83     0.59     0.02    80.00
    5500.       0.    5446.      54.       0.     741.      19.     206.      33.    75.00
     0.44     0.00     7.35     2.82    0.000    0.025    0.025    0.000    70.00  2024.64
 0.001675     280.     320.     240.        2        0        0     0.00   155.57  2180.22


FLOW DISTRIBUTION FOR SECNO=     60.60          CWSEL=     77.54

STA=    2025.    2165.    2180.
  PER Q=     99.0      1.0
   AREA=    741.3     19.3
    VEL=      7.3      2.8

*SECNO 63.630
    63.63     8.15    78.15     0.00     0.00    78.76     0.61     0.34     0.04   130.00
    5500.       0.    5194.     306.       0.     816.      66.     211.      34.    70.00
     0.45     0.00     6.37     4.61    0.000    0.025    0.025    0.000    70.00  2033.11
 0.001072     300.     260.     230.        2        0        0     0.00   153.18  2186.30


FLOW DISTRIBUTION FOR SECNO=     63.63          CWSEL=     78.15

STA=    2033.    2170.    2186.
  PER Q=     94.4      5.6
   AREA=    815.7     66.4
    VEL=      6.4      4.6
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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 66.700
    66.70     8.78     78.78      0.00      0.00     79.01      0.23      0.17      0.08     73.00
    5500.     286.     4710.      504.      148.     1163.      173.      219.       35.     70.00
     0.48     1.94      4.05      2.91     0.025     0.025     0.025     0.000     70.00   1932.23
 0.000343     310.      310.      310.         2         0         0      0.00    292.27   2224.50


FLOW DISTRIBUTION FOR SECNO=     66.70          CWSEL=     78.78

STA=    1932.    1940.    1955.    2000.    2020.    2185.    2224.
  PER Q=      0.0      0.2      1.4      3.6     85.6      9.2
   AREA=      3.0     11.7     57.5     75.5   1163.3    173.3
    VEL=      0.6      0.9      1.3      2.6      4.0      2.9

*SECNO 70.800
    70.80     9.05     79.05      0.00      0.00     79.08      0.04      0.04      0.04     72.00
    5500.      50.     5288.      161.       62.     3327.      164.      243.       39.     70.00
     0.55     0.81      1.59      0.99     0.025     0.025     0.025     0.000     70.00   1962.38
 0.000038     415.      415.      415.         2         0         0      0.00    423.80   2386.19


FLOW DISTRIBUTION FOR SECNO=     70.80          CWSEL=     79.05

STA=    1962.    1980.    2350.    2386.
  PER Q=      0.9     96.2      2.9
   AREA=     62.1   3327.2    163.7
    VEL=      0.8      1.6      1.0
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THIS RUN EXECUTED: Wed 28-JAN-1987 13:50:46.91

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**************************************************
  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

DESIGN CONDITIONS(6B)

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
4.600	0.00	0.00	0.00	67.00	5500.00	74.34	0.00	74.57	3.39	4.13	1489.09	2986.45
5.650	105.00	0.00	0.00	67.00	5500.00	74.50	0.00	74.62	1.58	2.86	1998.25	4374.99
7.400	170.00	0.00	0.00	67.00	5500.00	74.51	0.00	74.66	2.03	3.25	1749.81	3855.78
9.250	160.00	0.00	0.00	67.00	5500.00	74.57	0.00	74.70	2.13	2.93	1945.67	3767.01
11.000	160.00	0.00	0.00	67.00	5500.00	74.59	0.00	74.74	1.98	3.15	1797.81	3913.20
12.450	150.00	0.00	0.00	67.00	5500.00	74.57	0.00	74.83	3.42	4.21	1366.98	2972.63
13.450	100.00	0.00	0.00	67.00	5500.00	74.60	0.00	74.87	4.44	4.45	1360.25	2609.45
14.400	110.00	0.00	0.00	67.00	5500.00	74.54	0.00	75.00	6.26	5.59	1046.11	2198.00
15.750	125.00	0.00	0.00	67.00	5500.00	74.85	0.00	75.10	3.20	4.17	1413.87	3073.04
17.050	125.00	0.00	0.00	67.00	5500.00	75.00	0.00	75.16	2.01	3.25	1755.07	3881.83
18.200	120.00	0.00	0.00	67.00	5500.00	74.83	0.00	75.42	9.20	7.11	968.69	1813.02
19.090	70.00	0.00	0.00	67.00	5500.00	75.17	0.00	75.54	6.65	5.05	1172.83	2132.57
19.100	10.00	0.00	0.00	67.00	5500.00	75.03	0.00	75.70	18.55	6.74	861.84	1277.12
20.150	100.00	0.00	0.00	67.00	5500.00	75.29	0.00	75.89	16.03	6.40	909.22	1373.55
20.160	10.00	0.00	0.00	67.00	5500.00	75.69	0.00	75.99	4.89	4.57	1295.26	2488.33
22.050	185.00	0.00	0.00	67.00	5500.00	75.91	0.00	76.07	1.92	3.37	1755.19	3970.17
23.900	255.00	0.00	0.00	67.00	5500.00	75.99	0.00	76.12	1.32	2.96	1968.20	4784.54

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
26.100	220.00	0.00	0.00	67.00	5500.00	75.98	0.00	76.19	2.37	3.95	1540.32	3574.47
28.200	210.00	0.00	0.00	67.00	5500.00	76.11	0.00	76.25	1.48	3.11	1902.93	4513.55
30.000	175.00	0.00	0.00	67.00	5500.00	76.07	0.00	76.34	3.59	4.31	1385.94	2902.64
31.750	180.00	0.00	0.00	67.00	5500.00	76.24	0.00	76.40	1.69	3.41	1755.31	4228.16
33.800	200.00	0.00	0.00	67.00	5500.00	76.26	0.00	76.46	2.68	3.60	1580.05	3359.11
35.600	180.00	0.00	0.00	67.00	5500.00	76.31	0.00	76.52	3.19	3.72	1505.85	3079.21
37.800	210.00	0.00	0.00	67.00	5500.00	76.47	0.00	76.57	0.98	2.64	2237.52	5554.74
39.900	205.00	0.00	0.00	67.00	5500.00	76.49	0.00	76.60	1.08	2.74	2129.06	5303.16
42.000	210.00	0.00	0.00	67.00	5500.00	76.50	0.00	76.64	1.47	3.11	1865.31	4529.31
44.000	210.00	0.00	0.00	67.00	5500.00	76.57	0.00	76.67	1.13	2.68	2182.69	5164.04
46.100	200.00	0.00	0.00	70.00	5500.00	76.54	0.00	76.76	4.49	3.89	1465.25	2596.73
48.150	210.00	0.00	0.00	70.00	5500.00	76.57	0.00	76.94	7.88	5.09	1131.21	1959.63
50.200	200.00	0.00	0.00	70.00	5500.00	76.83	0.00	77.07	3.57	4.04	1421.69	2911.12
52.000	185.00	0.00	0.00	70.00	5500.00	76.98	0.00	77.14	2.58	3.28	1710.95	3425.74
54.450	210.00	0.00	0.00	70.00	5500.00	77.04	0.00	77.20	2.24	3.27	1755.06	3677.03
56.500	210.00	0.00	0.00	70.00	5500.00	77.03	0.00	77.31	4.92	4.40	1308.10	2479.27
58.500	200.00	0.00	0.00	70.00	5500.00	76.81	0.00	77.76	20.71	7.91	721.34	1208.51
60.600	320.00	0.00	0.00	70.00	5500.00	77.54	0.00	78.37	16.75	7.35	760.58	1343.79
63.630	260.00	0.00	0.00	70.00	5500.00	78.15	0.00	78.76	10.72	6.37	882.08	1679.60
66.700	310.00	0.00	0.00	70.00	5500.00	78.78	0.00	79.01	3.43	4.05	1484.35	2968.23
70.800	415.00	0.00	0.00	70.00	5500.00	79.05	0.00	79.08	0.38	1.59	3552.98	8893.49

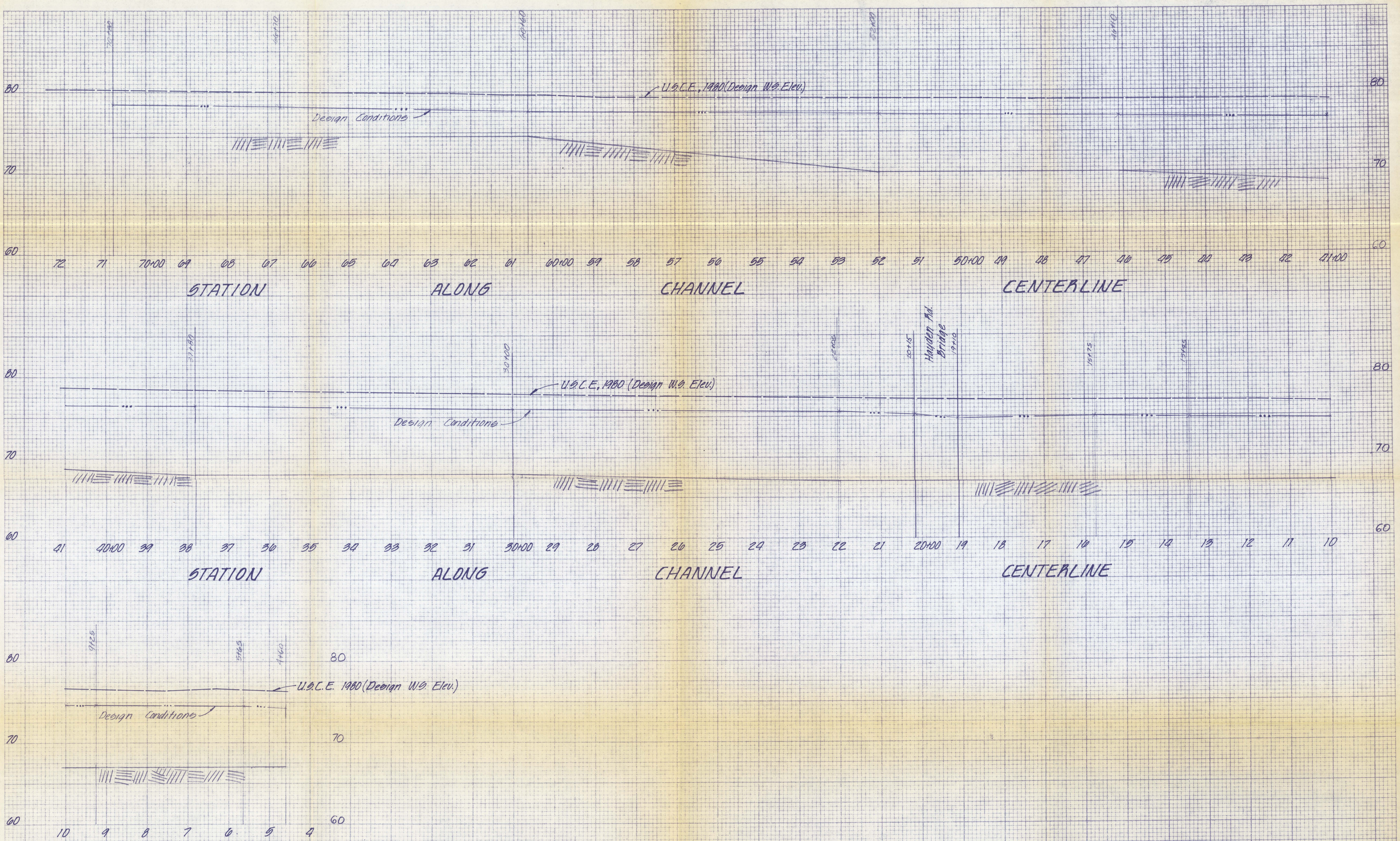
DESIGN CONDITIONS(6B)

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
4.600	5500.00	74.34	0.00	0.00	0.00	260.75	0.00
5.650	5500.00	74.50	0.00	0.16	0.00	293.10	105.00
7.400	5500.00	74.51	0.00	0.01	0.00	257.04	170.00
9.250	5500.00	74.57	0.00	0.07	0.00	342.00	160.00
11.000	5500.00	74.59	0.00	0.02	0.00	267.61	160.00
12.450	5500.00	74.57	0.00	-0.03	0.00	207.40	150.00
13.450	5500.00	74.60	0.00	0.03	0.00	250.15	100.00
14.400	5500.00	74.54	0.00	-0.05	0.00	175.42	110.00
15.750	5500.00	74.85	0.00	0.31	0.00	216.53	125.00
17.050	5500.00	75.00	0.00	0.15	0.00	260.00	125.00
18.200	5500.00	74.83	0.00	-0.17	0.00	216.94	120.00
19.090	5500.00	75.17	0.00	0.34	0.00	234.99	70.00
19.100	5500.00	75.03	0.00	-0.14	0.00	180.99	10.00
20.150	5500.00	75.29	0.00	0.26	0.00	181.00	100.00
20.160	5500.00	75.69	0.00	0.40	0.00	234.99	10.00
22.050	5500.00	75.91	0.00	0.22	0.00	277.51	185.00
23.900	5500.00	75.99	0.00	0.08	0.00	258.95	255.00
26.100	5500.00	75.98	0.00	-0.02	0.00	268.14	220.00
28.200	5500.00	76.11	0.00	0.14	0.00	265.76	210.00
30.000	5500.00	76.07	0.00	-0.04	0.00	228.41	175.00
31.750	5500.00	76.24	0.00	0.17	0.00	245.83	180.00
33.800	5500.00	76.26	0.00	0.02	0.00	251.44	200.00
35.600	5500.00	76.31	0.00	0.04	0.00	258.05	180.00
37.800	5500.00	76.47	0.00	0.17	0.00	276.56	210.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
39.900	5500.00	76.49	0.00	0.01	0.00	279.36	205.00
42.000	5500.00	76.50	0.00	0.01	0.00	250.97	210.00
44.000	5500.00	76.57	0.00	0.07	0.00	299.63	210.00
46.100	5500.00	76.54	0.00	-0.03	0.00	297.15	200.00
48.150	5500.00	76.57	0.00	0.03	0.00	234.56	210.00
50.200	5500.00	76.83	0.00	0.26	0.00	240.16	200.00
52.000	5500.00	76.98	0.00	0.15	0.00	286.03	185.00
54.450	5500.00	77.04	0.00	0.06	0.00	283.16	210.00
56.500	5500.00	77.03	0.00	-0.01	0.00	238.54	210.00
58.500	5500.00	76.81	0.00	-0.22	0.00	168.54	200.00
60.600	5500.00	77.54	0.00	0.74	0.00	155.57	320.00
63.630	5500.00	78.15	0.00	0.60	0.00	153.18	260.00
66.700	5500.00	78.78	0.00	0.63	0.00	292.27	310.00
70.800	5500.00	79.05	0.00	0.27	0.00	423.80	415.00

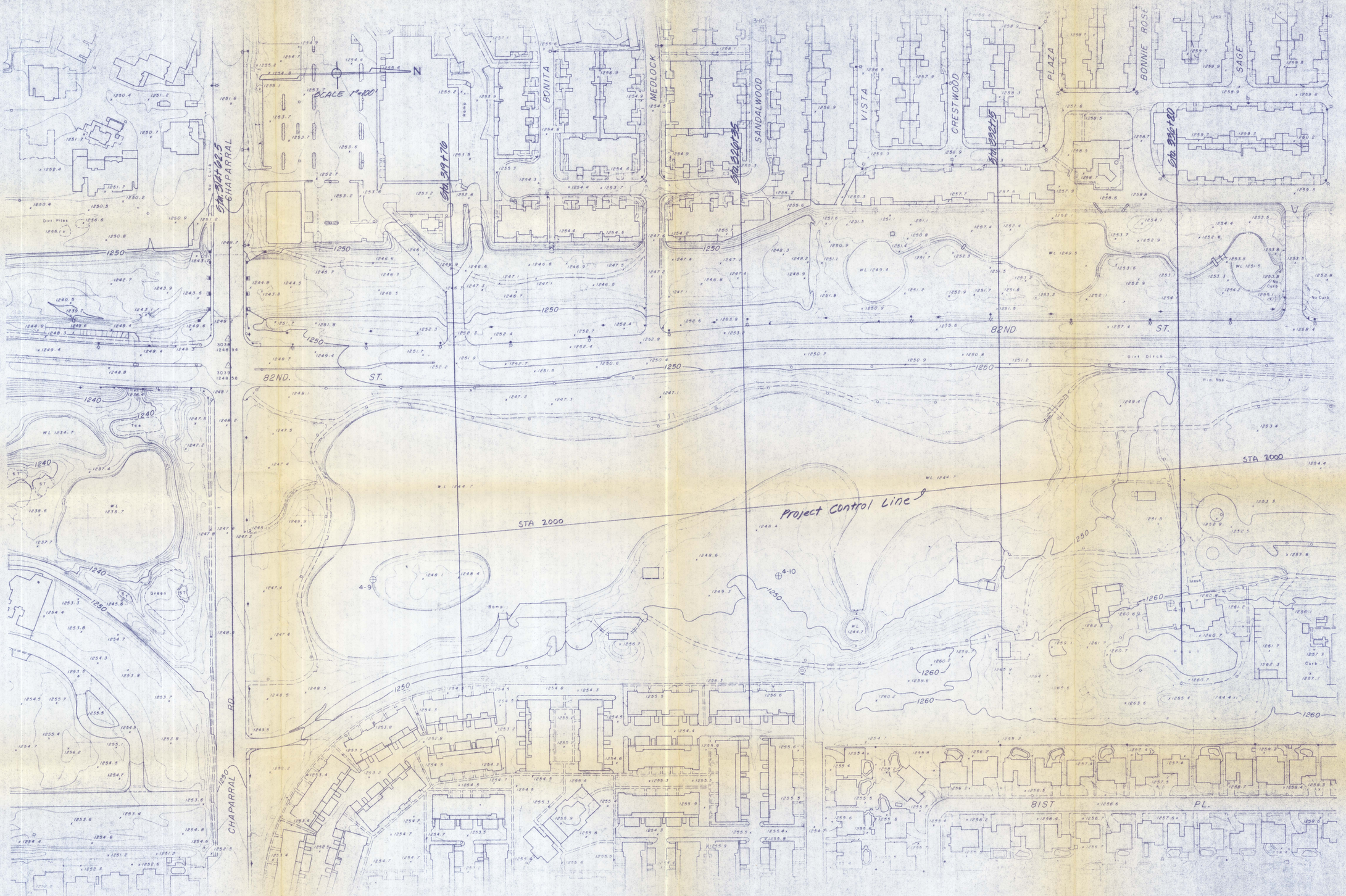
SUMMARY OF ERRORS AND SPECIAL NOTES



INTERCEPTOR CHANNEL

WATER SURFACE/BED PROFILES

SCALE 1"=100' Horiz. 1"=8' Vert.	Erie & Associates, Inc.	DESIGN D.W.D.
JOB NO. 1192		DRAWN R.A.V.
DATE Sept. 1980		CHECK L.J.E.
		SHEET 1 OF 1

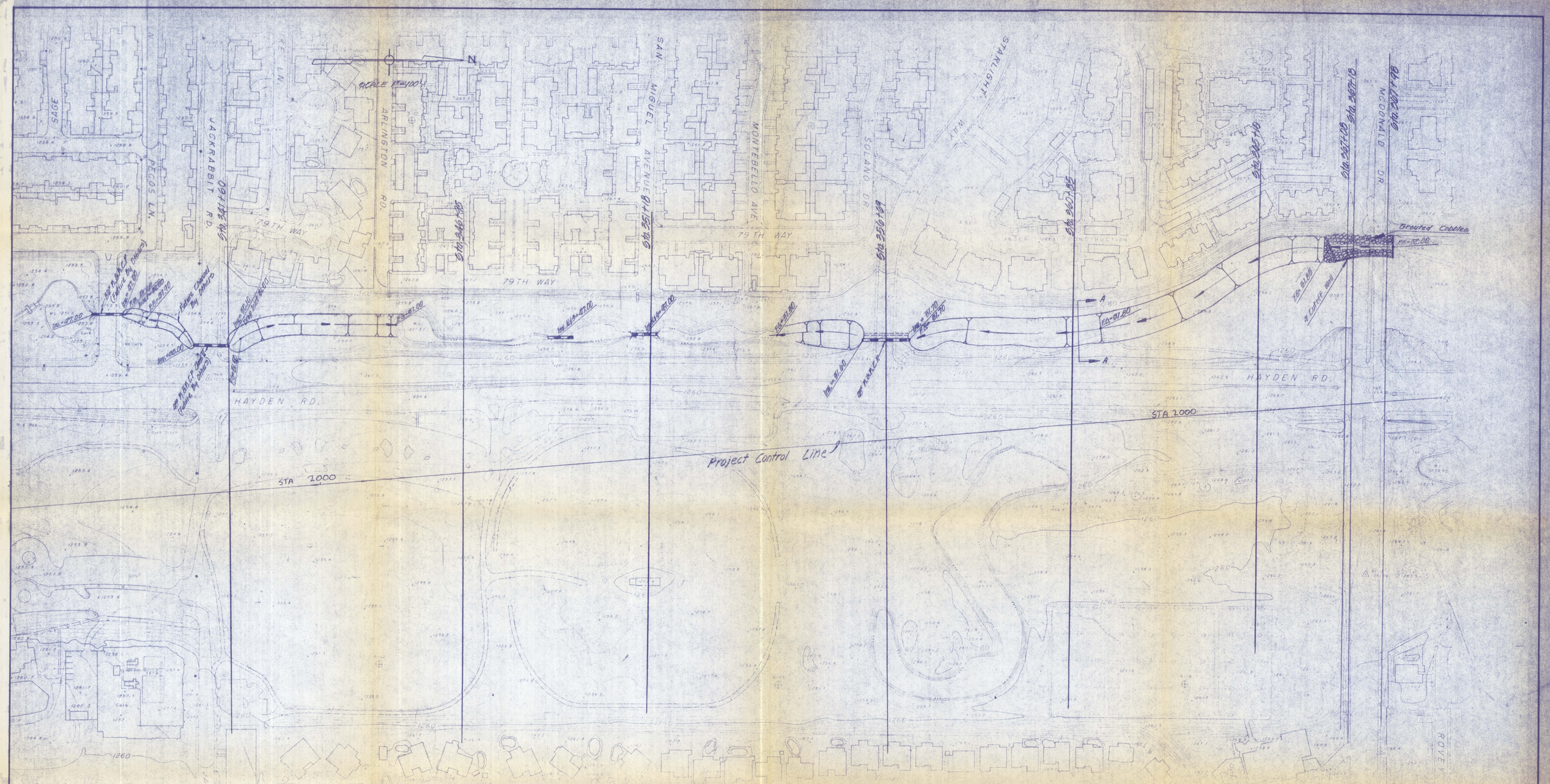


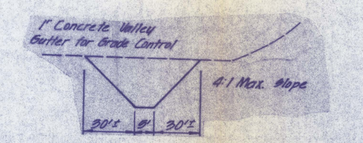
INLET GOLF COURSE
HYDRAULIC GRADING PLAN

SCALE	1" = 100'
JOB NO.	1192.
DATE	Sept. '80

Erie & Associates, Inc.
CONSULTING ENGINEERS
5110 N. 40th St., Suite 258
Phoenix, Arizona 85018 (602) 954-6399

DESIGN	L.J.E.
DRAWN	R.A.V.
CHECK	L.J.E.
SHEET	1 OF 4





TYP. SECTION A – A

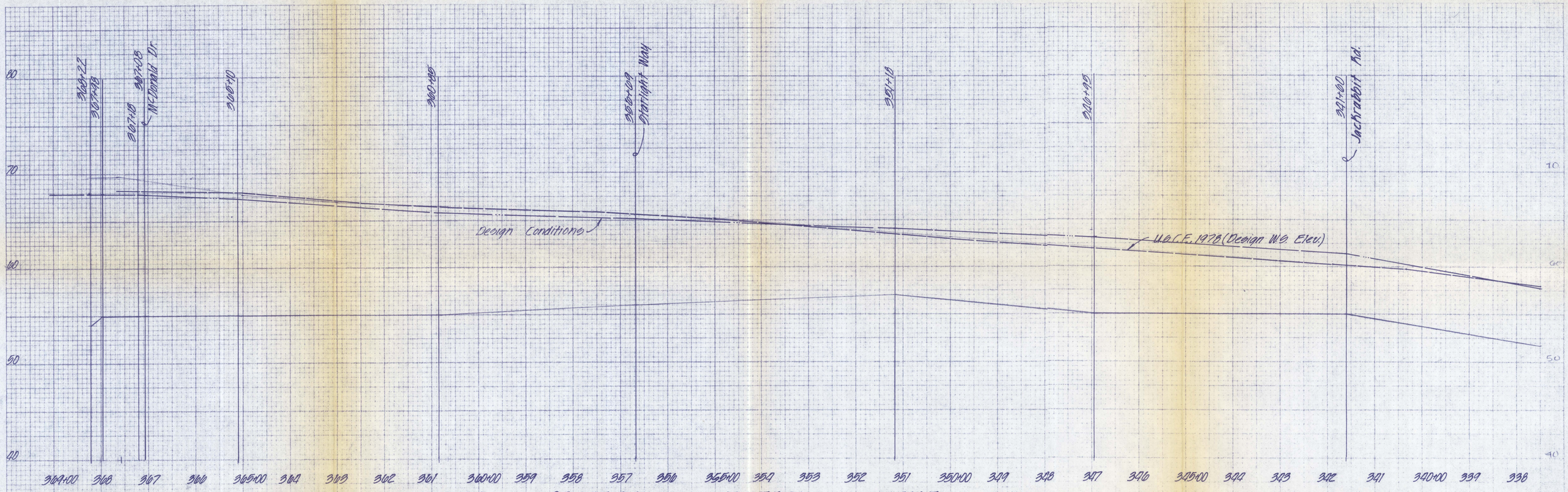
N.T.S.

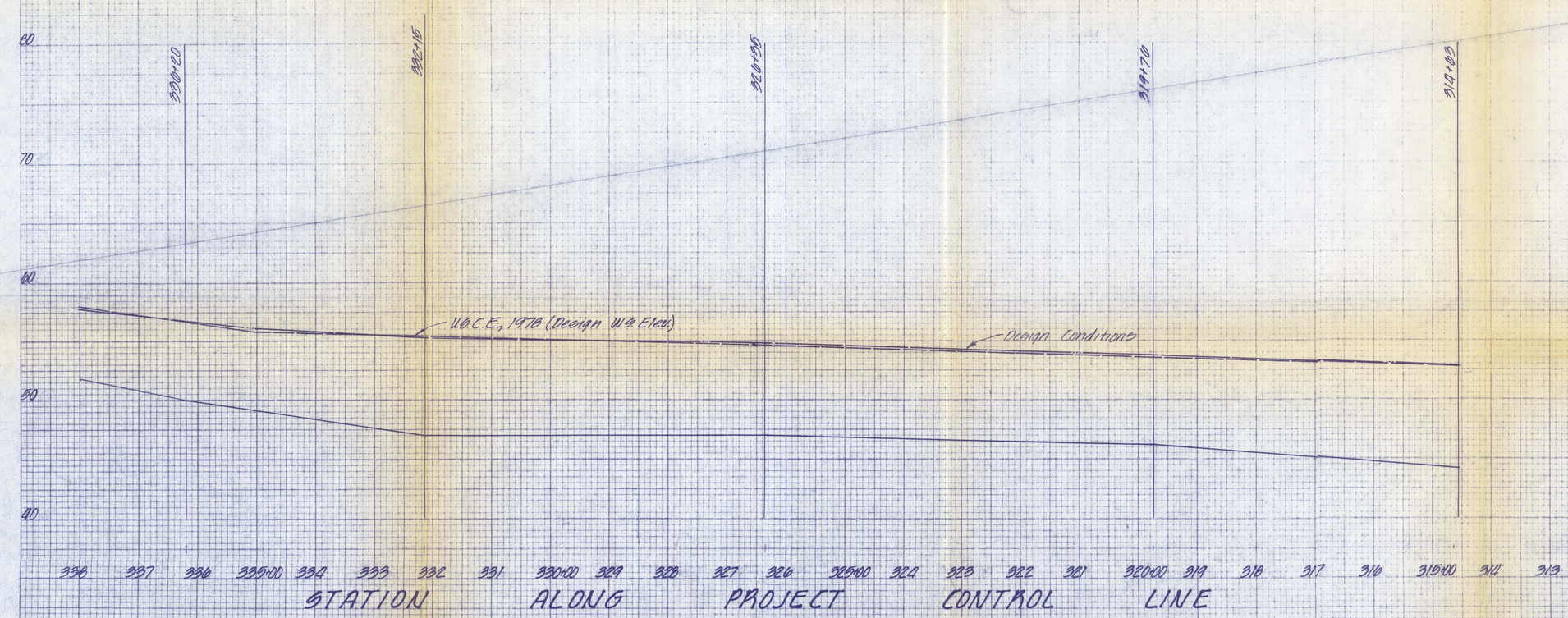
INLET GOLF COURSE
HYDRAULIC GRADING PLAN

SCALE 1"=100'
JOB NO. 1192
DATE Sept '80

Erie & Associates, Inc.
CONSULTING ENGINEERS
5110 N. 40th St., Suite 252
Phoenix, Arizona 85018 (602) 954-6399

DESIGN L.J.E.
DRAWN R.A.T.
CHECK L.J.E.
SHEET 2 OF 4

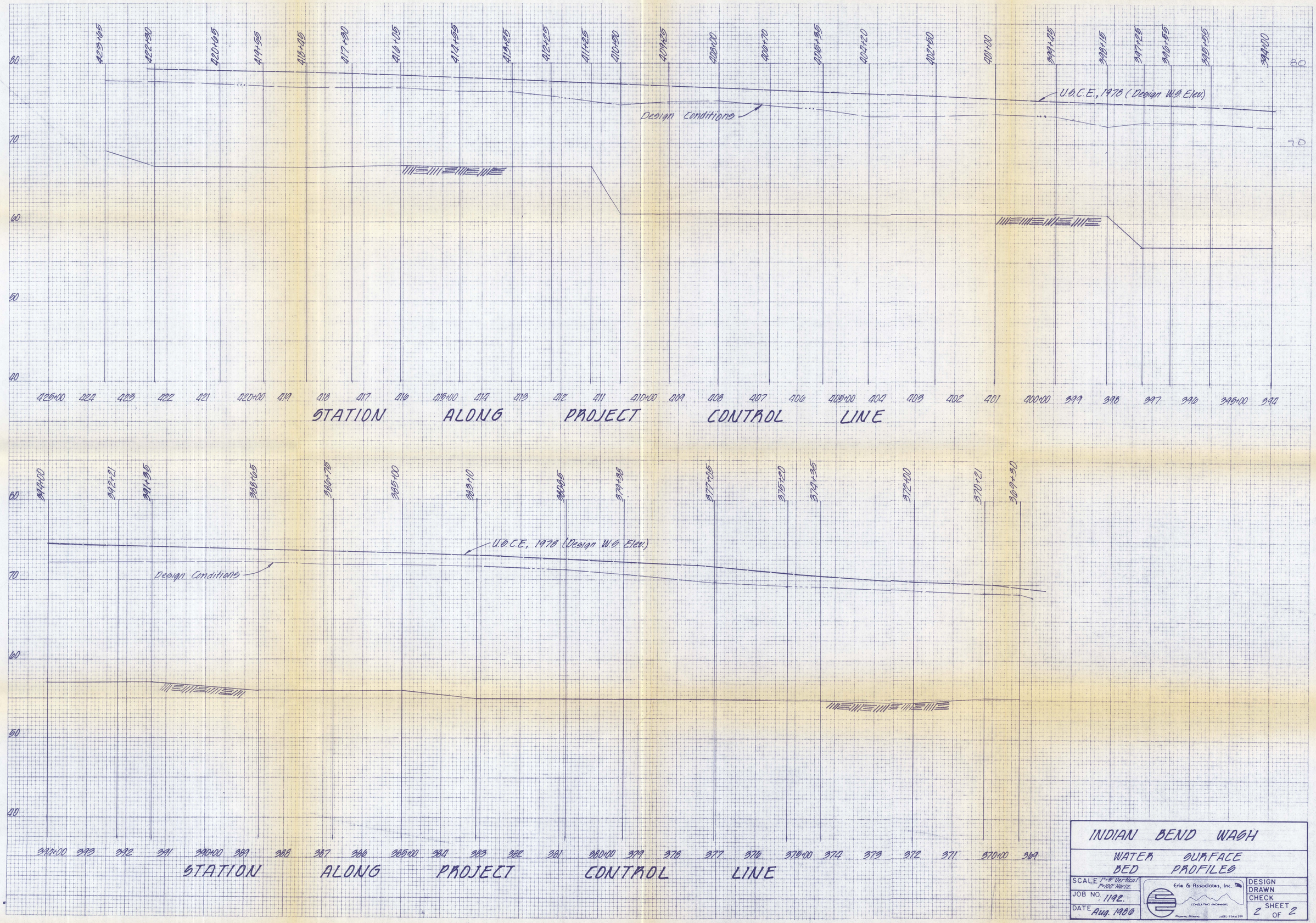




INDIAN BEND WASH

WATER SURFACE PROFILES

SCALE 1"=8' Vertical 1"=100' Horiz.	DESIGN
JOB NO. 1192.	DRAWN
DATE Aug. 1980	CHECK
Erie & Associates, Inc. CONSULTING ENGINEERS Phoenix, Arizona (602) 956-6399	SHEET 1 OF 2



INDIAN BEND WASH

WATER SURFACE
BED PROFILES

SCALE 1"=8' Vertical 1"=100' Horiz.	DESIGN
JOB NO. 1192.	DRAWN
DATE Aug. 1980	CHECK
	2 SHEET OF 2

Erie & Associates, Inc.
CONSULTING ENGINEERS
Phoenix, Arizona (602) 956-0389