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MANAGEMENT CONSULTANT SERVICES

SUPPLEMENT TO CONCEPT STUDY FOR THE PIMA FREEWAY CROSSING THE ARIZONA CANAL

SEPTEMBER 1990

DeLEUW CATHER

Management Consultant for the
Arizona Department of Transportation

SUPPLEMENT TO CONCEPT STUDY FOR THE PIMA FREEWAY CROSSING THE ARIZONA CANAL

SEPTEMBER 1990

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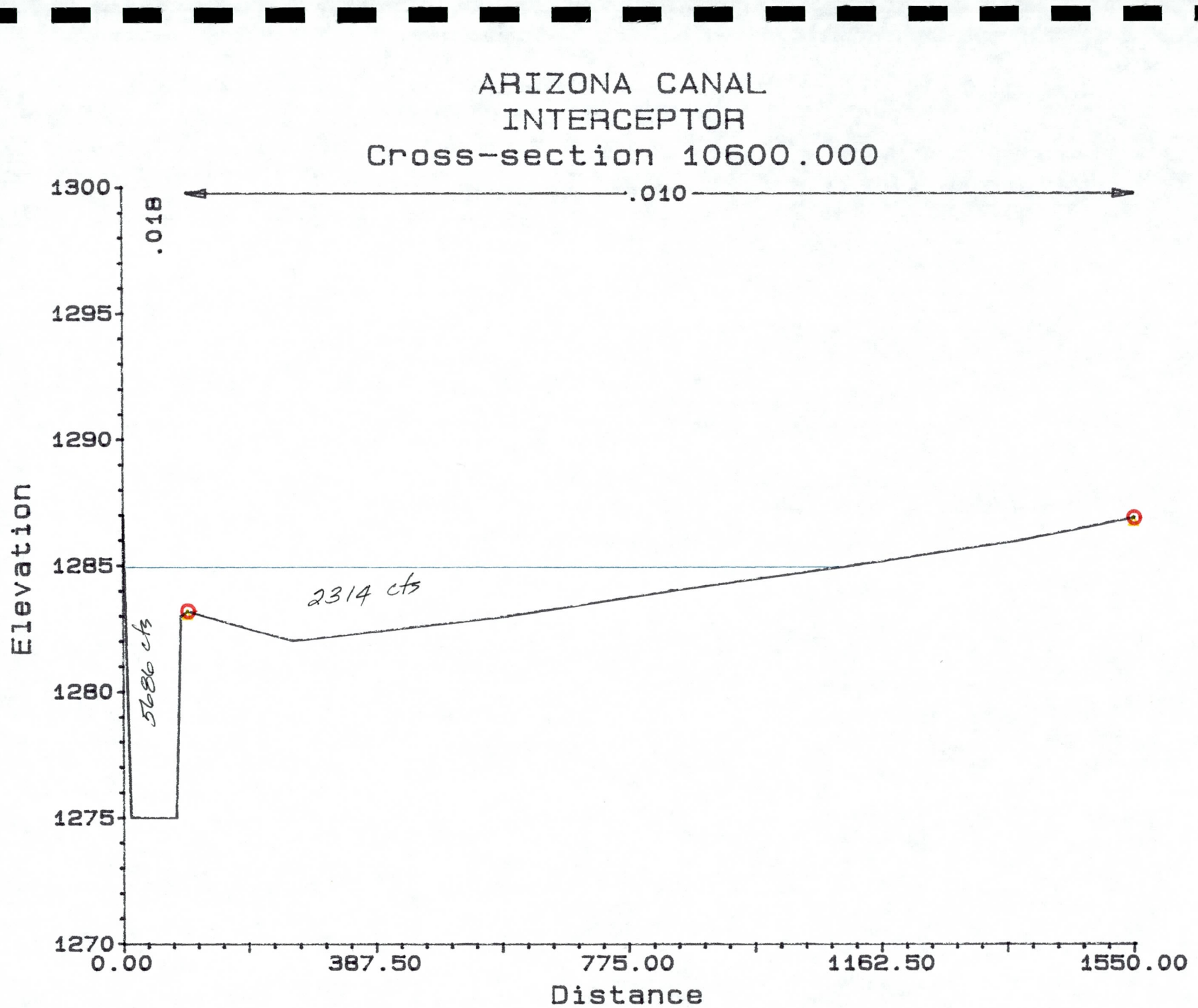
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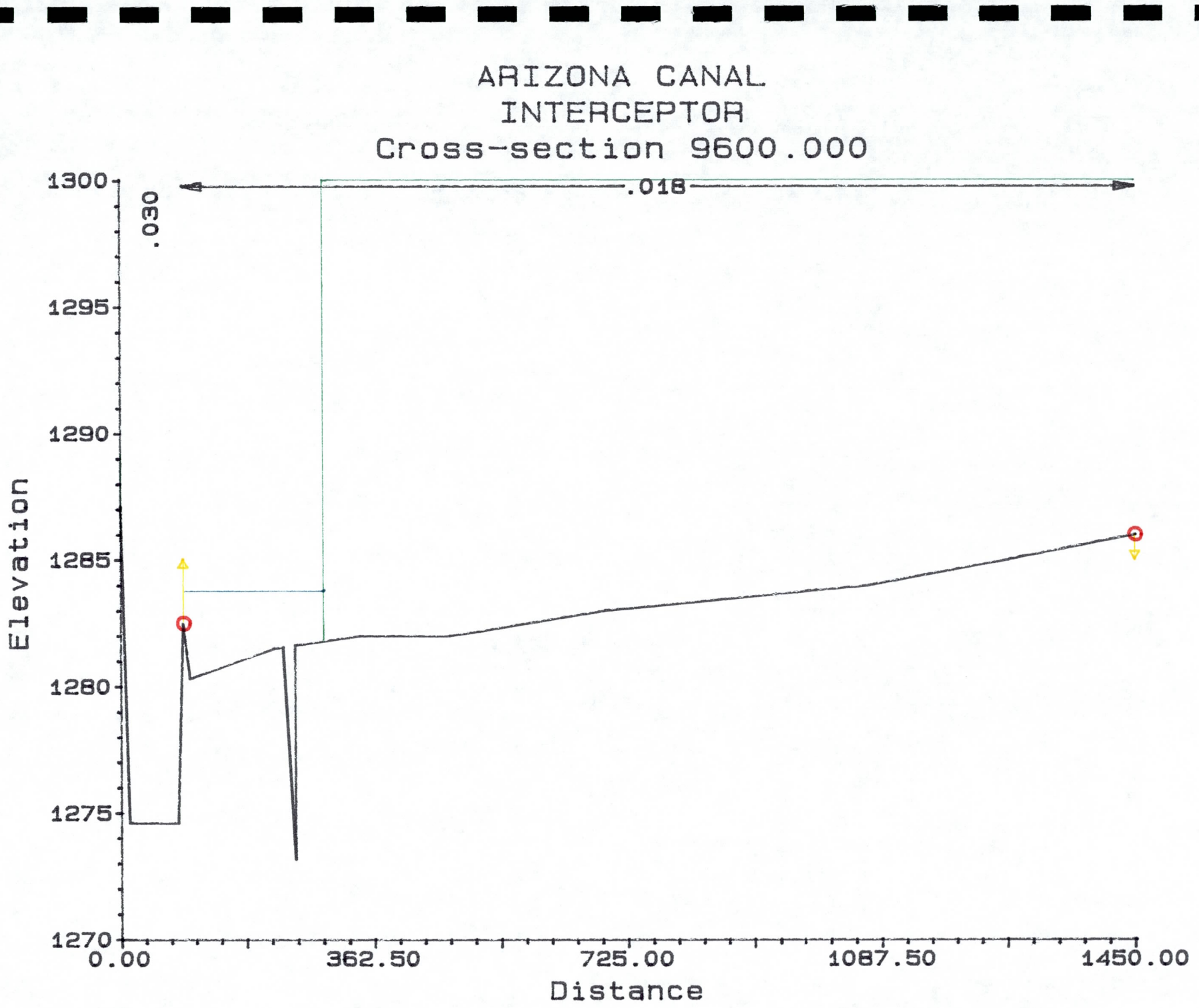
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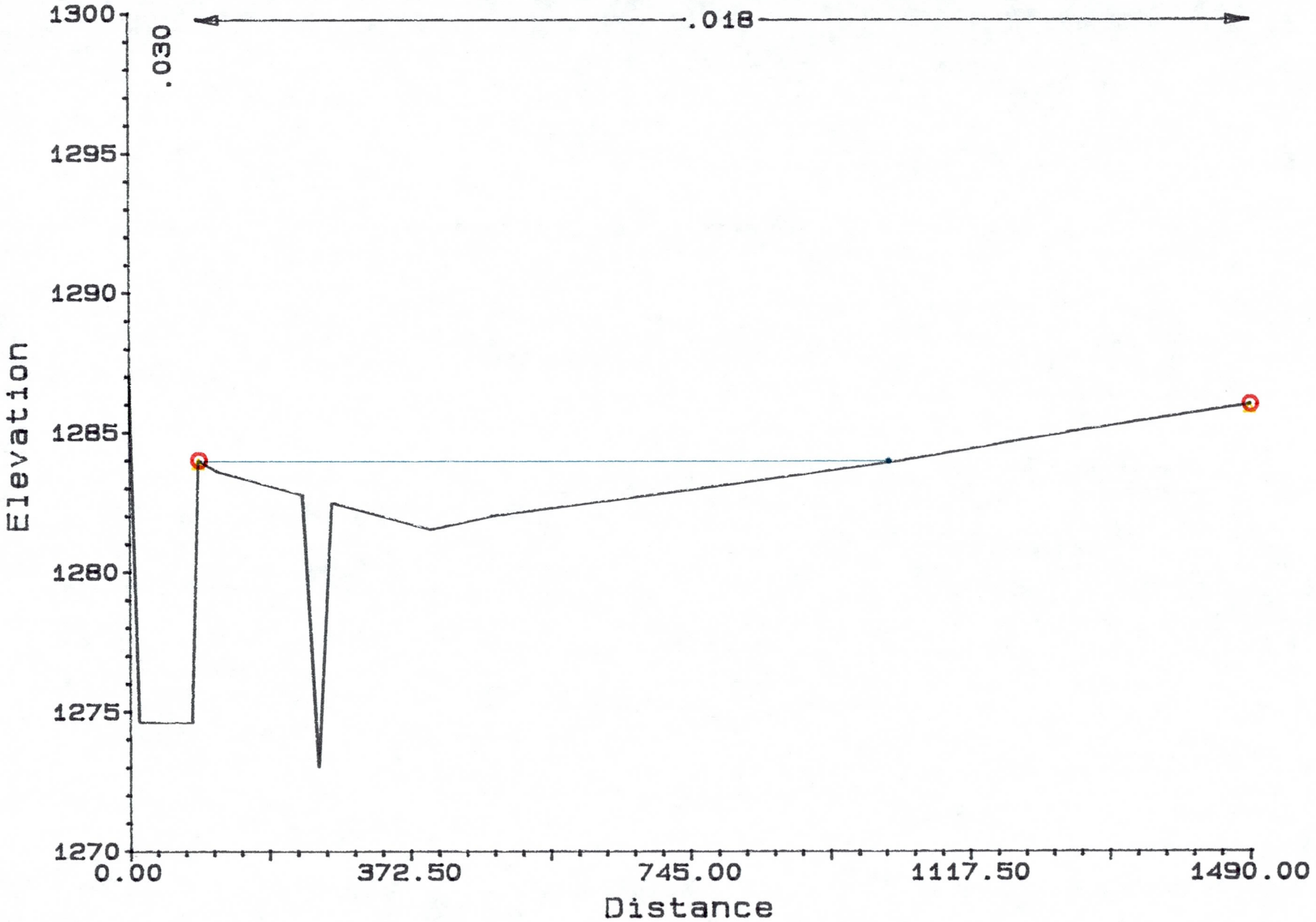
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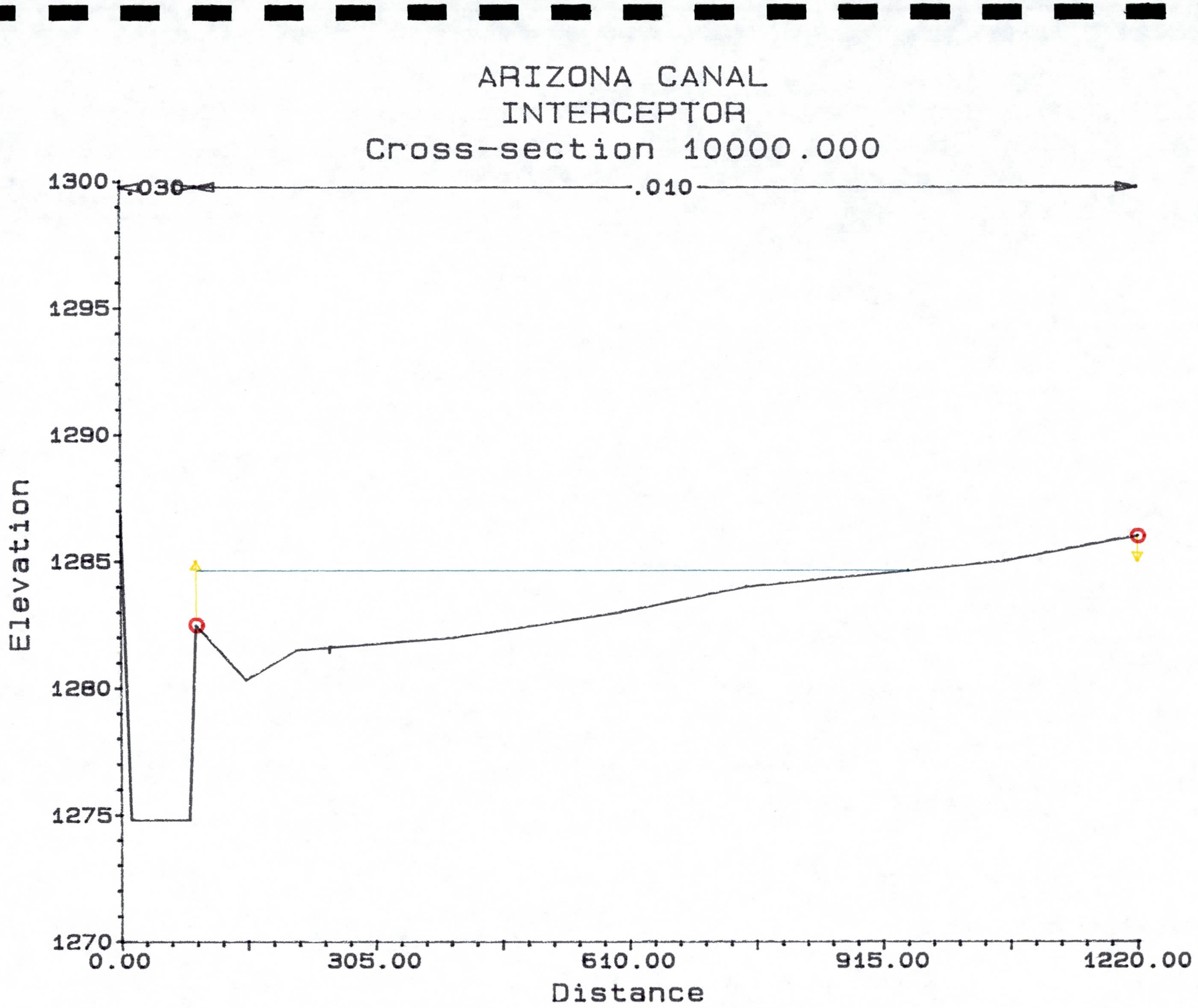
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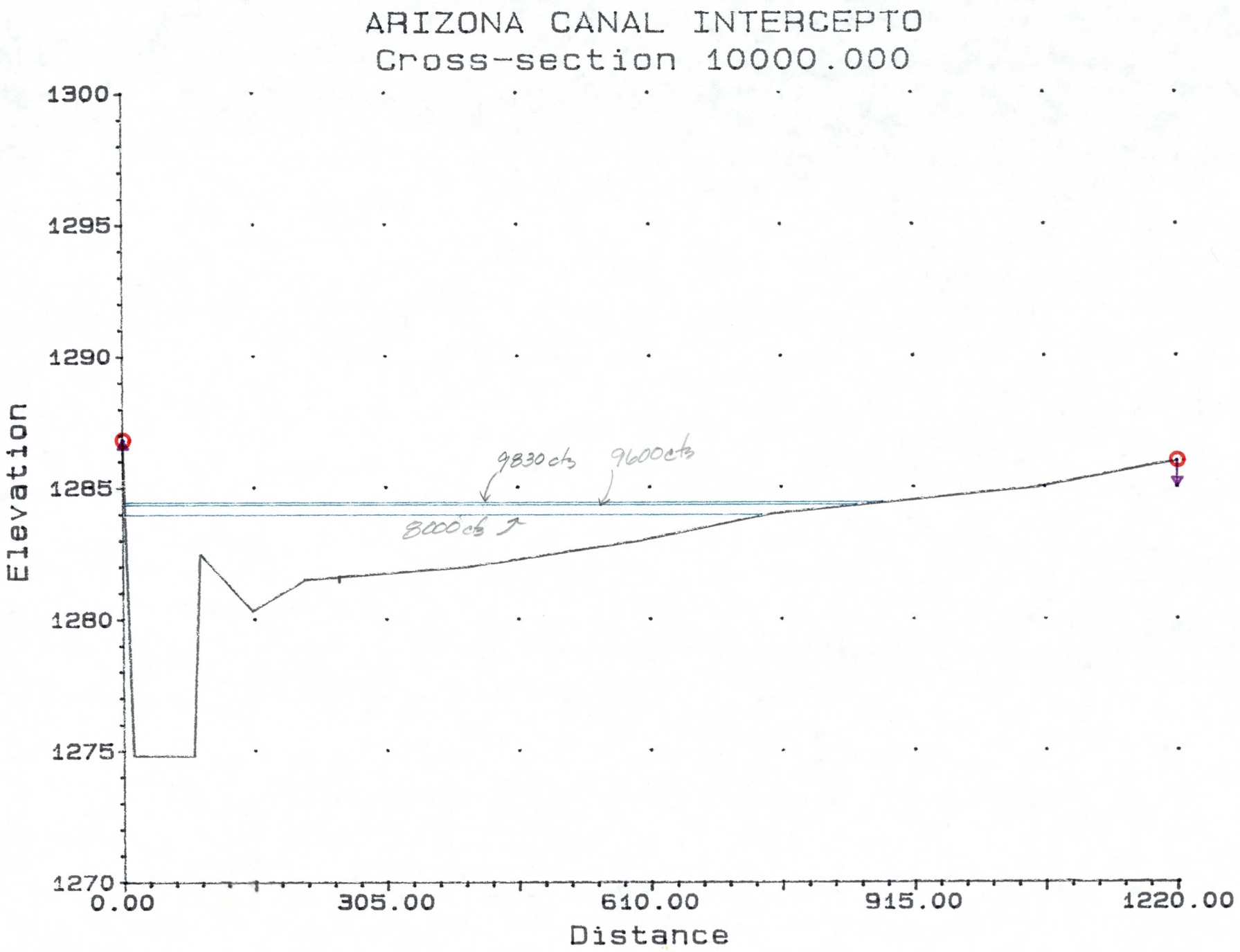
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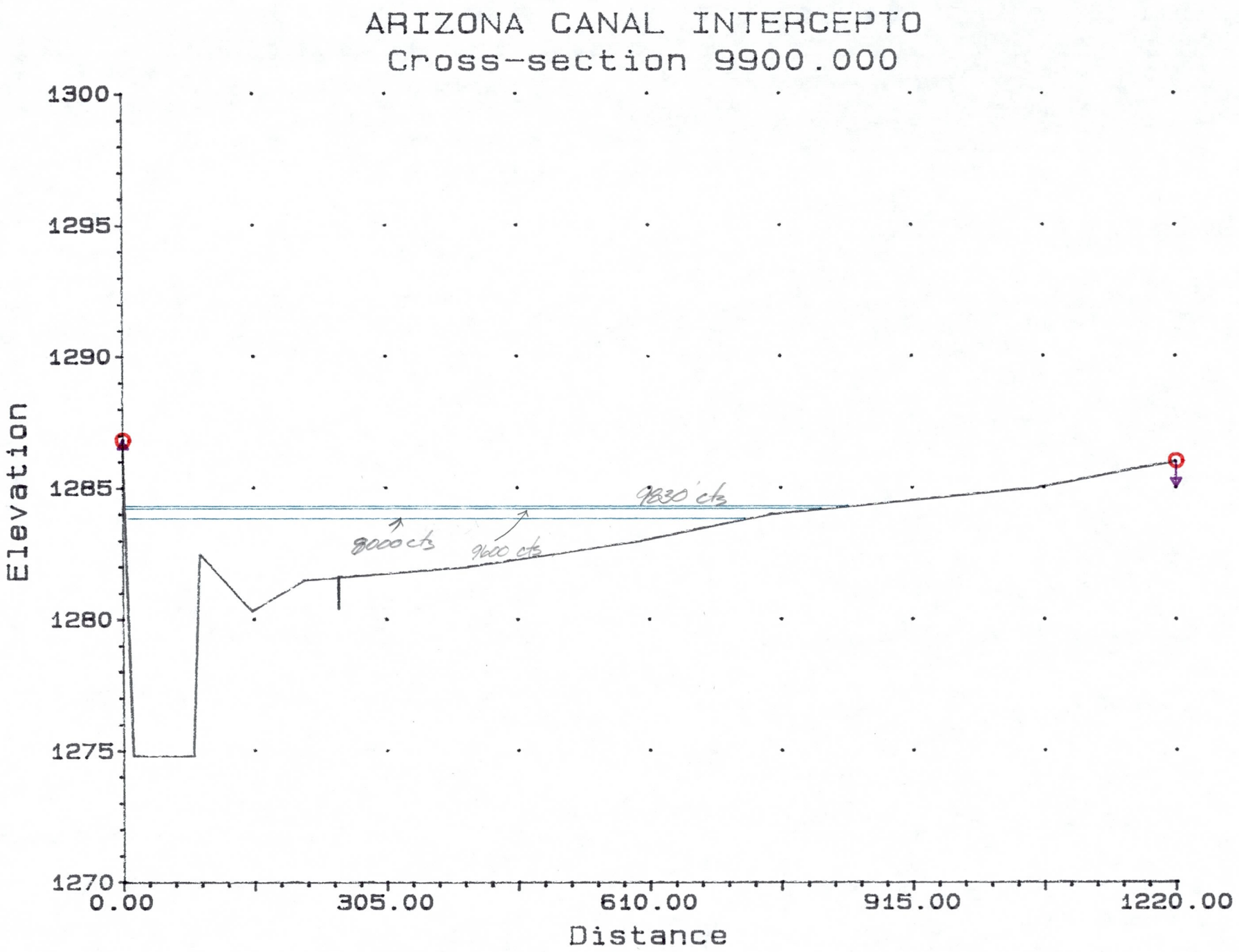
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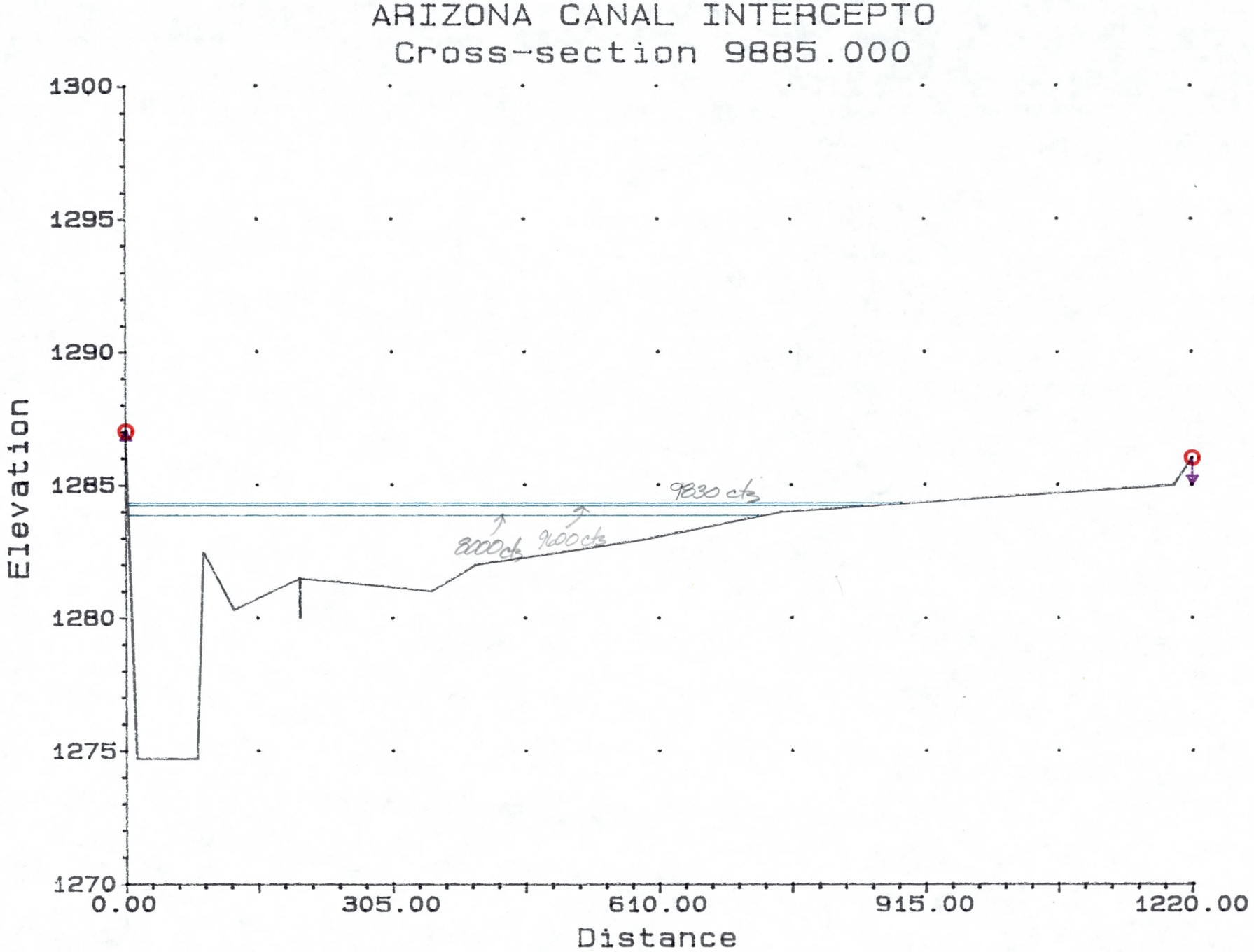
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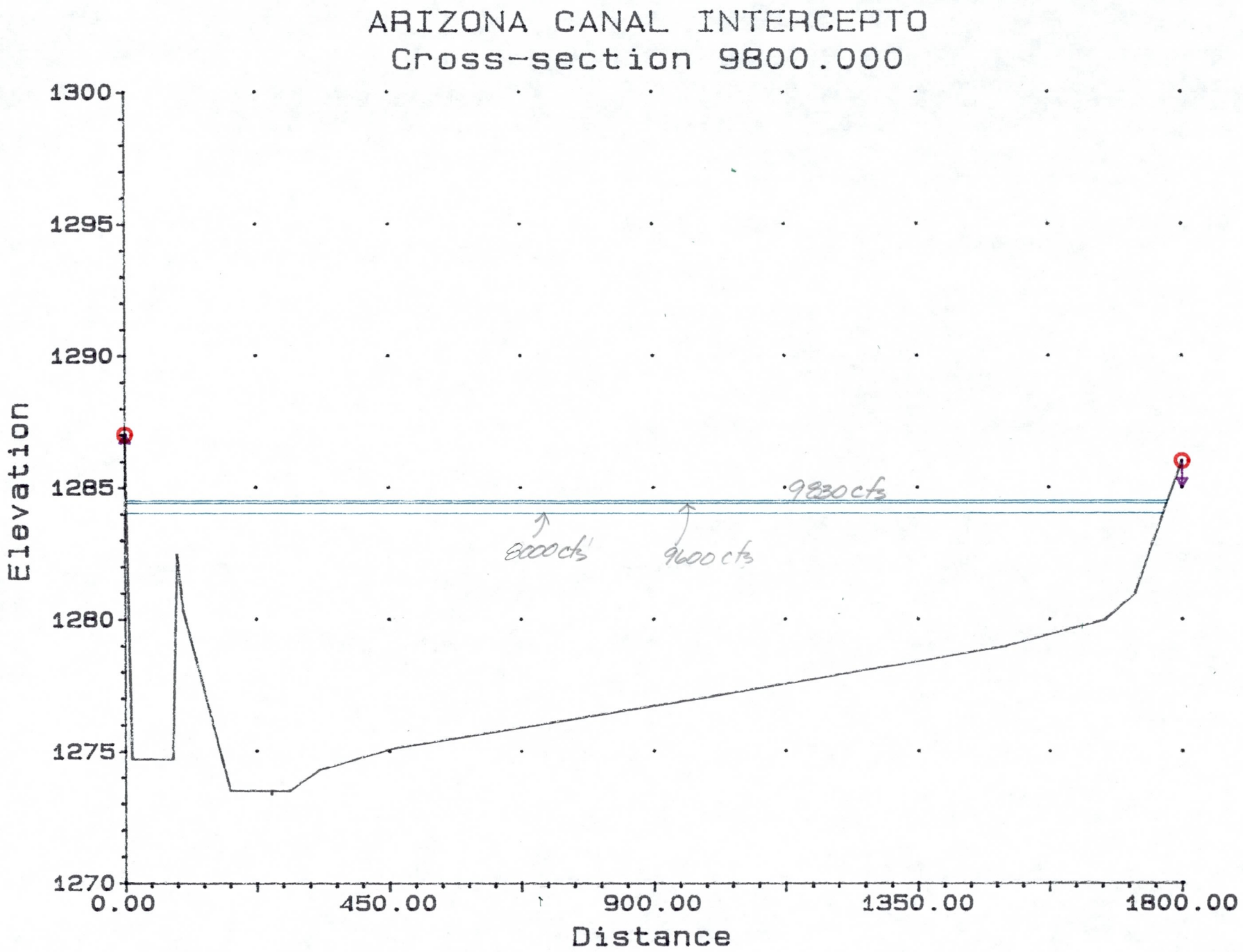
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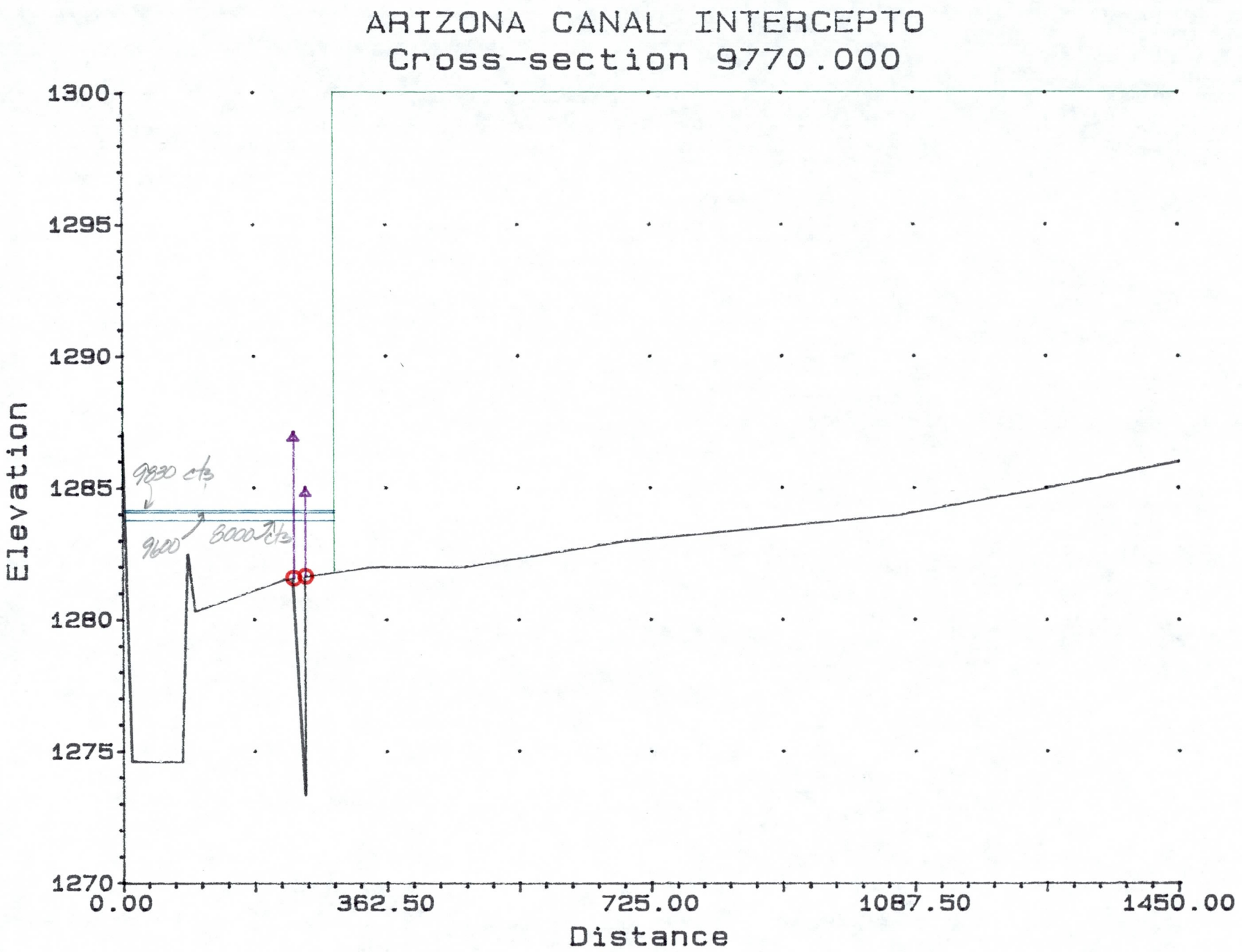
Distance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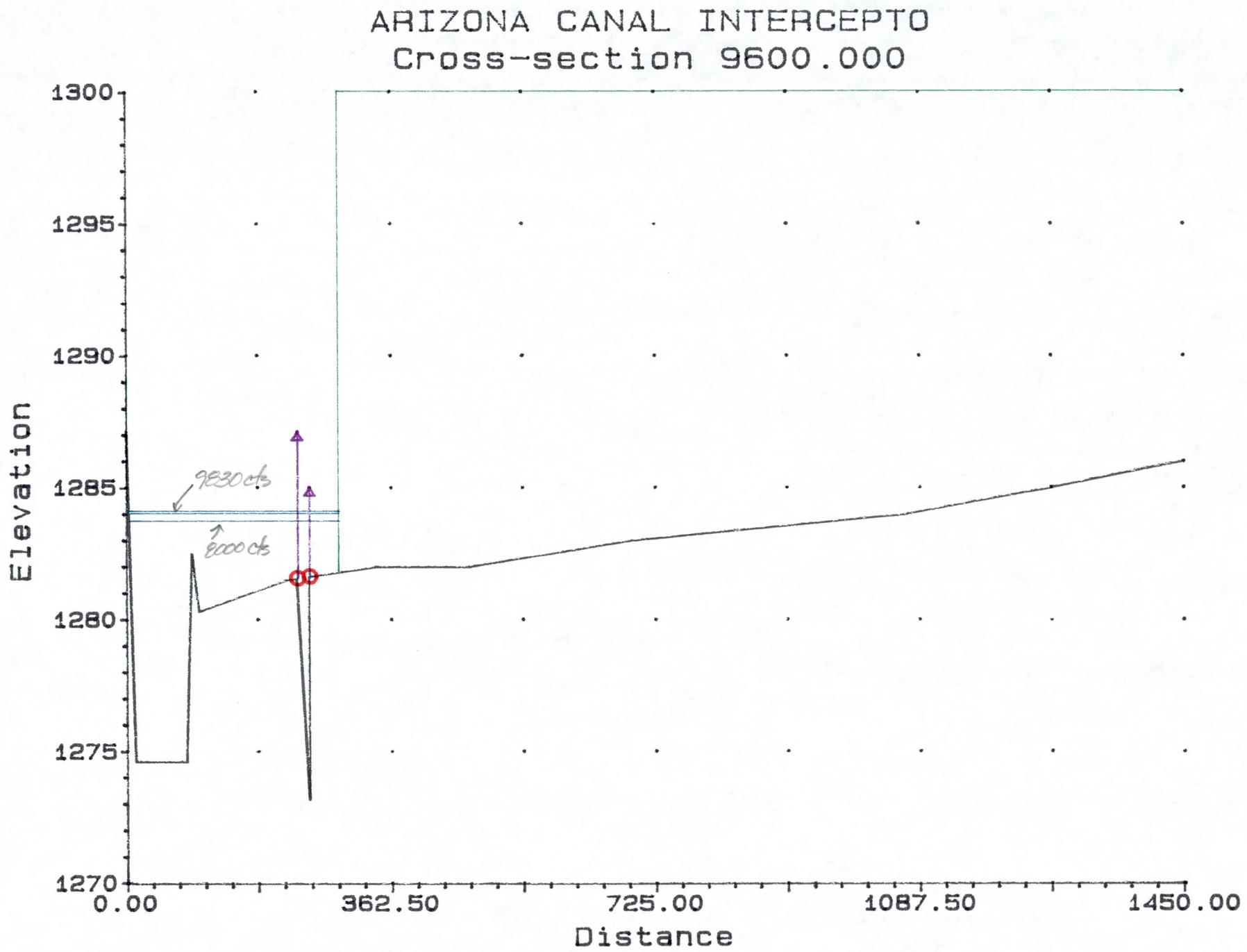
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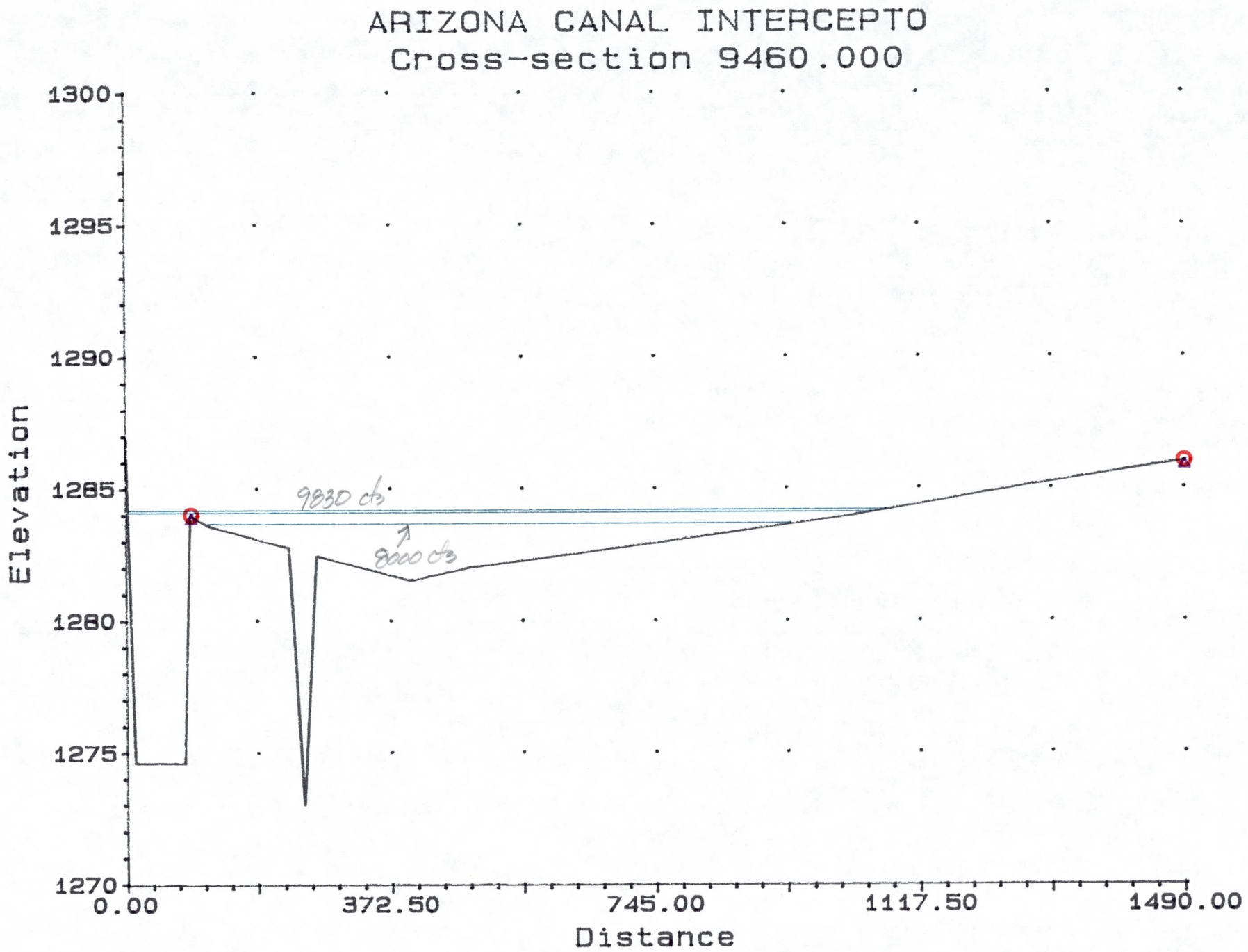
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745.00
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1490.00
Distance

INTRODUCTION

De Leuw, Cather & Company (DCCO) produced a report "Concept Study for the Pima Freeway Crossing the Arizona Canal," September 1989, Revised November 1989 (DCCO 1989). Three alternatives were discussed for the freeway drainage channel, as it approaches the Arizona Canal. They are as follows:

1. Intercept and convey flood runoff to flow south via freeway box culverts and a concrete channel, thence under the Arizona Canal to merge with flow directly to the Salt River.

2. Span the flood plain with a roadway bridge structure so as to not significantly impact the Arizona Canal, the flood plain or Pima Road drainage.

3. Provide a concrete-lined channel parallel to the north bank of the Arizona Canal, between the Pima Freeway and Pima Road with box culverts under Pima Road to discharge into the Scottsdale Lakes Golf Club (SLGC)/Corps of Engineers Indian Bend Wash Interceptor Channel. A freeway bridge would span the concrete-lined channel and the Arizona Canal.

Alternative 2 was selected initially based on cost, ease of coordination and availability of ROW. However, in negotiation meetings, Salt River Pima Maricopa Indian Community (SRPMIC) requested Alternative 3, and ADOT agreed to this request. The concept plan was reviewed in detail to optimize the freeway bridge length. This supplement documents the revised design of Arizona Canal Interceptor Channel.

BACKGROUND

The Corps of Engineers Design Memorandum No. 4, "Feature Design for Interceptor Channel Project Design for Indian Bend Wash," January 1980 (COE 1980), established a 100-year peak discharge of 8000 cfs for the flood plain north and east of the Arizona Canal at Pima Road (see Exhibit No. 1). The 8000 cfs includes 900 cfs that flows over Pima Road. The remaining 7100 cfs flows through the Pima Road bridge over the Arizona Canal.

The concept study (DCCO, 1989) was based on recent topographic mapping of the area. Geometric data for the Arizona Canal was taken from old cross-section data since SRP did not have an as-built survey or as-built plans of the recently lined canal. This was not acceptable for Salt River Project (SRP) review as the Arizona Canal characteristics were, as they perceived, not accurately defined.

The COE as-built plans for the construction of the Indian Bend Wash (IBW) Interceptor Channel project were not available for the original concept study. The Interceptor Channel project included channelization north of the Arizona Canal between Pima Road and Indian Bend Wash, as well as canal lining of the Arizona Canal between Dobson Road and one-half mile west of Pima Road.

The COE plans were located by and received from M
District (MCFCD). Although the plans received by
Built", the same set of plans was obtained by SRP w
comparison of the two (2) sets revealed them to b
plans are presented in Exhibits 5 through 22.

These plans together with the Design Memorandum No
support the new design concept of the Arizona Canal Interc

NEW CONCEPT DESCRIPTION

The new concept will require a drainage channe
Channel. The channel will cross under the new Pima
the north SRP right-of-way of the Arizona Canal,
through box culverts and discharge into the existing
Channel west of Pima Road. See Exhibit No. 2 and 3.

The Pima Freeway drainage channel will discharge into the Arizona Canal Interceptor Channel east of the freeway bridge. A spillway on the east bank of this channel will intercept flows from the flood plain east of the freeway. To effectively convey flows through the bridge structure, a small wall is proposed to separate canal flows from flood plain flows (see Exhibit 3). The interceptor channel has a 100-foot bottom width and a design capacity for the flood plain flows of approximately 2000 cfs. The balance of the flow will be conveyed by the Arizona Canal. A spillway (located just west of the Pima Freeway) will divert 1000 cfs from the Arizona Canal to the interceptor channel. The interceptor channel will then convey a 3000 cfs capacity and the Arizona Canal, a 5000 cfs capacity. This concept continues west through six (6) - 12 feet wide by 8 feet high concrete box culverts (or approved equal) under P
ends just west of Pima Road and connects to the I
Channel.

Currently, the City of Scottsdale plans to lease the I
Channel west of Pima Road from MCFCD; and sub-lea
developer to construct the Scottsdale Lakes Golf Cours
already been altered in anticipation of this developm
characteristics will not be changed by the golf course
4). COE design parameters provided for recreational
the interceptor channel.

HYDROLOGY

The hydrology as discussed in the concept study (DC
most part, unchanged. While the estimated design peal
the Arizona Canal remains at 8000 cfs, the flood routing has

As part of the SRPMIC agreement, the Pima Freeway drainage channel will be unlined. SRPMIC will provide a drainage system along 96th Street to convey all flows east of 96th Street to the Arizona Canal. Design of the 96th Street drainage system will be by others. These flows will enter the Arizona Canal and/or meander along the north side of the canal towards the Pima Freeway drainage channel. A spillway will be provided to convey these flows into the Arizona Canal Interceptor Channel. The Arizona Canal Interceptor Channel will be designed to reduce the extent of the flood plain.

The COE plans were located by and received from Maricopa County Flood Control District (MCFCD). Although the plans received by DCCO were not stamped "As Built", the same set of plans was obtained by SRP with the "As-Built" stamp. A comparison of the two (2) sets revealed them to be technically identical. The plans are presented in Exhibits 5 through 22.

These plans together with the Design Memorandum No. 4 (COE, 1980) were used to support the new design concept of the Arizona Canal Interceptor Channel.

NEW CONCEPT DESCRIPTION

The new concept will require a drainage channel, Arizona Canal Interceptor Channel. The channel will cross under the new Pima Freeway bridge then parallel the north SRP right-of-way of the Arizona Canal, then cross under Pima Road through box culverts and discharge into the existing Indian Bend Wash Interceptor Channel west of Pima Road. See Exhibit No. 2 and 3.

The Pima Freeway drainage channel will discharge into the Arizona Canal Interceptor Channel east of the freeway bridge. A spillway on the east bank of this channel will intercept flows from the flood plain east of the freeway. To effectively convey flows through the bridge structure, a small wall is proposed to separate canal flows from flood plain flows (see Exhibit 3). The interceptor channel has a 100-foot bottom width and a design capacity for the flood plain flows of approximately 2000 cfs. The balance of the flow will be conveyed by the Arizona Canal. A spillway (located just west of the Pima Freeway) will divert 1000 cfs from the Arizona Canal to the interceptor channel. The interceptor channel will then convey a 3000 cfs capacity and the Arizona Canal, a 5000 cfs capacity. This concept continues west through six (6) - 12 feet wide by 8 feet high concrete box culverts (or approved equal) under Pima Road where the channel ends just west of Pima Road and connects to the Indian Bend Wash Interceptor Channel.

Currently, the City of Scottsdale plans to lease the Indian Bend Wash Interceptor Channel west of Pima Road from MCFCD; and sub-lease the area to a golf course developer to construct the Scottsdale Lakes Golf Course (SLGC). The ground has already been altered in anticipation of this development. However, the spillway characteristics will not be changed by the golf course developer (see Exhibit No. 4). COE design parameters provided for recreational and planting development in the interceptor channel.

HYDROLOGY

The hydrology as discussed in the concept study (DCCO, 1989), remains, for the most part, unchanged. While the estimated design peak runoff at Pima Road and the Arizona Canal remains at 8000 cfs, the flood routing has been revised.

As part of the SRPMIC agreement, the Pima Freeway drainage channel will be unlined. SRPMIC will provide a drainage system along 96th Street to convey all flows east of 96th Street to the Arizona Canal. Design of the 96th Street drainage system will be by others. These flows will enter the Arizona Canal and/or meander along the north side of the canal towards the Pima Freeway drainage channel. A spillway will be provided to convey these flows into the Arizona Canal Interceptor Channel. The Arizona Canal Interceptor Channel will be designed to reduce the extent of the flood plain.

As a result of this agreement, a new study entitled "Preliminary Design Report, Landscaped Channel Concept" (Ward, March 1990), was developed. Flow in ADOT's channel reduced to 1271 cfs as the Pima Freeway drainage channel approaches the north bank of the Arizona Canal. The Ward Report, included a HEC-1 computer model with the SRPMIC 96th Street storm drain in place. This model predicts that the 100-year 24-hour storm flow is 9830 cfs. The COE hydrograph has a peak flow of 7824 cfs which is significantly lower.

ADOT has accepted the COE design flow of 8000 cfs for their Arizona Canal interceptor project. COE used different methodology to develop their hydrograph. DCCO modified Ward's HEC-1 model to develop a 100-year 12-hour hydrograph, which has a peak flow of 7922 cfs. This approximately equates to the COE's value. Further investigation of the 9830 cfs flow reveals that this flow includes 691 cfs from the Pima Freeway Drainage Channel and 9138 cfs from the Arizona Canal and flood plain. These hydrographs are shown in Exhibits 23 and 24 and values are in Table 1.

The ADOT Design Procedures Manual requires the drainage channels to convey 120% of design flow at bank-full elevation. This would require a bank-full capacity of 9600 cfs to be split between the Arizona Canal and the Interceptor Channel. A 24-hour storm distribution is very conservative. Therefore, the COE design flows for the 12-hour storm will be used for design with freeboard allowances. Since the design bank-full capacity requirement nearly equates to the peak flow from the Ward Report, the freeboard will be checked using the Ward HEC-1 hydrograph values for the 100-year 24-hour storm.

DESIGN HYDRAULICS

HEC-2, Water Surface Profiles computer models were prepared simulating the various conditions experienced by both the Arizona Canal and the COE Indian Bend Wash Interceptor Channel. These conditions include existing and proposed conditions (see Appendices B through I).

COE plans (Exhibits 5 through 22) were used for the lined Arizona Canal and the IBW Interceptor Channel cross-sections. There were no bench marks indicated on the COE plans. Since all surveys, plans, etc. crossed Pima Road, a common elevation equation could be established (see Table 2). COE datum agrees with the topographic map used for the DCCO concept layout in Exhibits 2 and 3 and was used for hydraulic analysis. COE plans used two (2) sets of stationing - one for the interceptor channel and one for the Arizona Canal. For purposes of this report, the interceptor channel stationing was extended to the Arizona Canal where 59+00 (channel) equals 10+00 (Arizona Canal).

SRP supplied all of their survey notes and HEC-2 input data. However, the information was for the unlined Arizona Canal. COE lined the Arizona Canal from 1600 feet west of Pima Road to 5700 feet east of Pima Road which is well defined on COE plans. Information on the COE plans was used in the HEC-2 models. The Arizona Canal was also lined from the Indian Bend Wash radial gates to 1600 feet west of Pima Road. However, SRP has no record of the design or as-built data. HEC-2 input data supplied by SRP was used in the Appendix A HEC-2 model.

As requested by SRP, a HEC-2 model was prepared to simulate SRP operating conditions for the Arizona Canal at 1600 cfs and at design flows. SRP survey data was corrected to COE datum, after which the lined reach was corrected to agree with the COE plans. The reach from Indian Bend Wash gates to 1600 feet west of Pima Road was still, however, without as-built information. For this reach, the SRP unlined canal cross-sections were used (corrected to COE datum) with Mannings 'n' changed to n=0.018 for a lined canal. A trapezoidal section of 70-foot bottom width was assumed. A slope of 0.034 percent joins the IBW radial gates invert with the end of the COE canal bottom lining at Station 59+00.

METHODOLOGY

The COE plans used extensively for this study contained two different sets of stationing - one for the IBW interceptor channel and one for the Arizona Canal. The computer modeling required continuously increasing section numbers. Through a mathematical evaluation, it was determined that Station 10+00 (Arizona Canal) equaled Station 59+00 (IBW Interceptor Channel). These stations are identified in Exhibits 5 to 22. A possible third set of stations relating to the equation on Exhibit 21 identified as Station 131+00 did not correlate to any data, reports, or plans obtained and was subsequently ignored.

There were two different starting water surface elevations for the IBW Interceptor Channel (1276.50) and Arizona Canal (1280.50) in addition to different starting flows. HEC-2 Water Surface Profile computer program can only work with one flow and one starting water surface elevation at a time. Therefore, separate HEC-2 models were prepared for each scenario and are presented in the Appendices. A summary is provided at the beginning of the Appendices and a detailed description of each model is provided at the beginning of the model.

Basically, Appendix A HEC-2 contains the SRP supplied data for an unlined Arizona Canal. The SRP operating conditions of 1600 cfs were imposed on the model with no impact to the canal.

The COE spillway data was modeled (HEC-2 split flow) to prove the spillway flows for COE design flow of 7100 cfs and the ADOT design flow of 5150 cfs (see Appendix B).

HEC-2 models in Appendices C and D simulated the COE design for both the Arizona Canal and the COE IBW Interceptor Channel respectively.

The proposed Arizona Canal spillway model is presented in Appendix E.

The proposed Arizona Canal interceptor channel (ADOT) was then modeled, including data from Appendix E, using the channel improvement option in HEC-2 (see Appendix F).

The Arizona Canal was modeled for SRP operating flow and ADOT design flow (see Appendix G).

The Arizona Canal interceptor channel (ADOT) between Pima Road and east end of the channel was modeled to show the impact of flows (1.2) x design (9600 cfs) and (1.23) x design (9830 cfs) (see Appendix H).

Finally, the Arizona Canal was modeled for the impact to the flood plain by the proposed interceptor channel (see Appendix I).

Hydraulic summary tables are presented to compare the results of the HEC-2 models in Appendices B through I. Table 3 lists all of the models tabulated by cross-section, Appendix I.D., and flows. Table 4 represents the results of the HEC-2 models for the Arizona Canal. Table 5 contains the results of the HEC-2 models for the interceptor channels.

DISCUSSION

In addition to the COE spillway west of Pima Road, there are two (2) other existing spillways on the Arizona Canal (north bank) east of Pima Road (see profiles on Exhibits 20 and 21). The first spillway east of Pima Road is located between Arizona Canal Interceptor Channel Station 87+00 to Station 111+00. The Pima Freeway crosses this spillway at approximately Station 97+00 (see Exhibit 20). In the SRP water transmission system, this spillway is identified as a low bank. The spillway elevation is 1282.50 and will be used to divert 1100 cfs from the Arizona Canal to the proposed Arizona Canal Interceptor Channel (see Appendix E). It is realized that the function of the SRP spillway is to intercept storm flows from the north into the Arizona Canal; however, the proposed interceptor channel will intercept these flows west of the Pima Freeway. A second spillway or low bank is located further east at 96th Street/Dobson Road.

The HEC-2 model for the Arizona Canal Interceptor Channel indicates that flows will discharge into the COE IBW Interceptor Channel at a velocity less than 3.5 fps which meets a request by the Maricopa County Flood Control District.

SRP requested a hydraulic analysis using the SRP operating flow of 1600 cfs in addition to the flood plain flows and the design flows for the Arizona Canal. These models are in Appendix G. The flood plain flow and the design flow are both 8000 cfs and are usually referred to as design flow. There is little or no impact to the Arizona Canal or to SRP facilities.

The design flow does exceed the low chord of the demossing bridge. However, it is recognized that the HEC-2 program is not capable of routing the flow around the bridge for high flows which would result in two (2) different water surface elevations for the same cross-section. Therefore, the normal bridge method was used. The flows do not exceed the top of the demossing bridge. The SRP operating flow has no impact on any structures or banks. The 1600 cfs flow keeps well within the banks of the Arizona Canal.

CONCLUSIONS

The Arizona Canal Interceptor Channel will convey flood waters under the Pima Freeway bridge to the Indian Bend Wash Interceptor Channel. Additional conveyance capacity is provided which reduces the extent of the flood plain adjacent to the Arizona Canal east of Pima Road and reduces the amount of flood waters conveyed by the Arizona Canal. The improvements basically consist of a 100-foot wide concrete lined channel and a six barrel 12-foot wide by 8-foot high box culverts (or approved equal) under Pima Road. The HEC-2 computer modeling shows the feasibility of this concept. When implemented, this plan will provide for stormwater relief to the Arizona Canal and to the land north of the canal.

REFERENCES

1. Concept Study for the Pima Freeway Crossing the Arizona Canal, De Leuw, Cather & Company, September 1989, Revised November 1989.

2. Feature Design for Interceptor Channel Project Design for Indian Bend Wash, Corps of Engineers, January 1980.

3. Preliminary Design Report, Landscaped Channel Concept, Robert L. Ward, P.E., March 1990.

TABLE 1
HYDROGRAPH VALUES

ARIZONA CANAL CROSSING

TIME (min)	TIME (hr)	ADOT 24 HOUR FREEWAY (cfs)	ADOT 24 HOUR AZ CANAL (cfs)	ADOT 24 HOUR TOTAL (cfs)	ADOT 12 HOUR FREEWAY (cfs)	ADOT 12 HOUR AZ CANAL (cfs)	ADOT 12 HOUR TOTAL (cfs)	CORPS TOTAL (cfs)
	MAXIMUM	1271	9184	9830	1069	7378	7922	7824
0	0.00	0	0	0	0	0	0	0
5	0.08	0	0	0	0	0	0	3
10	0.17	0	0	0	0	0	0	6
15	0.25	0	0	0	0	0	0	9
20	0.33	0	0	0	0	0	0	9
25	0.42	0	0	0	0	0	0	10
30	0.50	0	0	0	0	0	0	10
35	0.58	0	0	0	0	0	0	10
40	0.67	0	0	0	0	0	0	11
45	0.75	0	0	0	0	0	0	11
50	0.83	0	0	0	0	0	0	12
55	0.92	0	1	1	0	1	1	12
60	1.00	0	2	2	0	2	2	13
65	1.08	0	7	7	0	7	7	14
70	1.17	0	15	15	0	15	15	16
75	1.25	0	27	27	0	27	27	17
80	1.33	0	46	46	0	46	46	19
85	1.42	0	72	72	0	72	72	20
90	1.50	0	121	121	0	122	122	22
95	1.58	0	151	151	0	152	152	25
100	1.67	0	170	170	0	170	170	27
105	1.75	0	182	182	0	182	182	30
110	1.83	0	189	189	0	189	189	33
115	1.92	0	193	193	0	194	194	37
120	2.00	0	196	196	0	196	196	40
125	2.08	0	198	198	0	198	198	44
130	2.17	0	199	199	0	199	199	47
135	2.25	0	199	199	0	200	200	51
140	2.33	0	200	200	0	200	200	55
145	2.42	0	200	200	0	201	201	59
150	2.50	0	200	200	0	201	201	63
155	2.58	0	200	200	0	201	201	67
160	2.67	0	200	200	0	201	201	70
165	2.75	0	200	200	0	202	202	74
170	2.83	0	201	201	0	202	202	78
175	2.92	0	201	201	0	202	202	81
180	3.00	0	201	201	0	202	202	85
185	3.08	0	201	201	0	202	202	88
190	3.17	0	201	201	0	202	202	92
195	3.25	0	201	201	0	203	203	95
200	3.33	0	201	201	0	203	203	98
205	3.42	0	201	201	0	203	203	102
210	3.50	0	201	201	0	203	203	105
215	3.58	0	201	201	0	203	203	108
220	3.67	0	201	201	0	203	203	111
225	3.75	0	201	201	0	204	204	114
230	3.83	0	201	201	0	204	204	117
235	3.92	0	201	201	0	204	204	120
240	4.00	0	201	201	0	204	204	123

TABLE 1 (CONT'D)
HYDROGRAPH VALUES

TIME (min)	TIME (hr)		ADOT 24 HOUR FREEWAY (cfs)	ADOT 24 HOUR AZ CANAL (cfs)	ADOT 24 HOUR TOTAL (cfs)	ADOT 12 HOUR FREEWAY (cfs)	ADOT 12 HOUR AZ CANAL (cfs)	ADOT 12 HOUR TOTAL (cfs)	CORPS TOTAL (cfs)
		MAXIMUM	1271	9184	9830	1069	7378	7922	7824
245	4.08		0	202	202	0	205	205	129
250	4.17		0	202	202	0	205	205	136
255	4.25		0	202	202	0	205	205	142
260	4.33		0	203	203	0	206	206	166
265	4.42		0	204	204	0	207	207	189
270	4.50		0	205	205	0	208	208	213
275	4.58		0	206	206	0	210	210	280
280	4.67		0	208	208	0	212	212	347
285	4.75		0	209	209	0	214	214	414
290	4.83		0	212	212	0	217	217	581
295	4.92		0	214	214	0	220	220	749
300	5.00		0	217	217	0	223	223	916
305	5.08		0	220	220	0	227	227	1248
310	5.17		0	223	223	0	232	233	1580
315	5.25		0	228	228	1	237	238	1912
320	5.33		0	233	233	1	242	243	2387
325	5.42		0	238	238	1	247	248	2863
330	5.50		0	243	243	1	252	253	3338
335	5.58		0	248	248	1	257	258	3893
340	5.67		0	252	252	1	262	264	4447
345	5.75		0	257	257	1	268	269	5002
350	5.83		0	262	262	2	274	276	5302
355	5.92		0	268	268	2	282	284	5601
360	6.00		0	275	275	3	291	295	5901
365	6.08		0	282	282	8	304	312	6124
370	6.17		0	291	291	24	328	352	6348
375	6.25		0	299	299	50	374	424	6571
380	6.33		0	307	307	85	452	537	6753
385	6.42		0	315	315	133	592	725	6934
390	6.50		0	323	323	181	800	981	7116
395	6.58		0	330	330	220	1139	1359	7263
400	6.67		0	338	338	271	1653	1924	7409
405	6.75		0	346	346	385	2326	2711	7556
410	6.83		0	354	354	562	2991	3553	7645
415	6.92		0	363	363	760	3500	4259	7735
420	7.00		0	371	371	967	4002	4970	7824
425	7.08		0	379	379	1069	4518	5587	7810
430	7.17		0	387	387	1059	5045	6104	7797
435	7.25		0	396	396	993	5568	6560	7783
440	7.33		0	404	404	905	6084	6989	7675
445	7.42		0	412	412	816	6527	7343	7568
450	7.50		0	421	421	737	6915	7652	7460
455	7.58		0	430	430	667	7175	7841	7281
460	7.67		0	440	440	601	7322	7922	7102
465	7.75		0	452	452	541	7378	7918	6923
470	7.83		0	464	464	488	7357	7844	6683
475	7.92		0	474	474	440	7270	7710	6443
480	8.00		0	484	484	398	7128	7526	6203
485	8.08		0	494	494	362	6944	7306	5932

TABLE 1 (CONT'D)
HYDROGRAPH VALUES
ARIZONA CANAL CROSSING

TIME (min)	TIME (hr)		ADOT 24 HOUR FREEWAY (cfs)	ADOT 24 HOUR AZ CANAL (cfs)	ADOT 24 HOUR TOTAL (cfs)	ADOT 12 HOUR FREEWAY (cfs)	ADOT 12 HOUR AZ CANAL (cfs)	ADOT 12 HOUR TOTAL (cfs)	CORPS TOTAL (cfs)
		MAXIMUM	1271	9184	9830	1069	7378	7922	7824
490	8.17		0	503	503	330	6735	7065	5662
495	8.25		0	513	513	303	6524	6827	5391
500	8.33		0	523	523	282	6316	6598	5120
505	8.42		0	532	532	265	6087	6352	4850
510	8.50		0	542	542	250	5848	6098	4579
515	8.58		0	552	552	238	5611	5849	4329
520	8.67		0	562	562	228	5385	5613	4080
525	8.75		0	572	572	218	5159	5378	3830
530	8.83		0	582	583	208	4930	5138	3617
535	8.92		0	593	593	198	4696	4894	3403
540	9.00		0	603	603	189	4450	4640	3190
545	9.08		0	613	613	181	4227	4408	2998
550	9.17		0	622	623	174	4010	4184	2806
555	9.25		0	632	633	167	3785	3952	2614
560	9.33		0	643	643	160	3597	3757	2387
565	9.42		1	653	654	153	3438	3591	2161
570	9.50		1	665	665	147	3271	3417	1934
575	9.58		1	676	677	140	3110	3251	1712
580	9.67		1	688	688	134	3008	3143	1490
585	9.75		1	699	699	129	2925	3054	1268
590	9.83		1	710	710	124	2849	2973	1196
595	9.92		1	721	722	119	2766	2886	1123
600	10.00		1	733	734	115	2680	2794	1051
605	10.08		1	744	745	110	2626	2736	989
610	10.17		1	754	755	106	2575	2681	928
615	10.25		1	764	765	102	2526	2628	866
620	10.33		1	774	775	99	2479	2578	808
625	10.42		1	784	785	95	2435	2530	751
630	10.50		1	793	795	92	2392	2484	693
635	10.58		1	803	804	89	2352	2441	646
640	10.67		1	812	814	86	2314	2401	598
645	10.75		1	822	823	84	2280	2364	551
650	10.83		1	831	833	81	2248	2329	515
655	10.92		1	841	842	79	2217	2296	479
660	11.00		1	851	852	77	2189	2266	443
665	11.08		1	860	862	75	2162	2237	416
670	11.17		2	870	872	73	2138	2211	390
675	11.25		2	881	882	72	2115	2187	363
680	11.33		2	891	893	70	2094	2164	344
685	11.42		2	901	903	69	2074	2143	326
690	11.50		2	912	914	67	2056	2123	307
695	11.58		2	923	925	66	2039	2104	294
700	11.67		3	934	937	65	2023	2087	282
705	11.75		4	945	949	64	2008	2072	269
710	11.83		5	958	962	63	1995	2058	260
715	11.92		6	972	979	62	1984	2046	252
720	12.00		9	991	1000	61	1976	2037	243
725	12.08		17	1017	1034	61	1969	2029	238
730	12.17		40	1070	1110	60	1964	2024	232

TABLE 1 (CONT'D)
HYDROGRAPH VALUES

ARIZONA CANAL CROSSING

TIME (min)	TIME (hr)		ADOT 24 HOUR FREEWAY (cfs)	ADOT 24 HOUR AZ CANAL (cfs)	ADOT 24 HOUR TOTAL (cfs)	ADOT 12 HOUR FREEWAY (cfs)	ADOT 12 HOUR AZ CANAL (cfs)	ADOT 12 HOUR TOTAL (cfs)	CORPS TOTAL (cfs)
		MAXIMUM	1271	9184	9830	1069	7378	7922	7824
735	12.25		73	1176	1249	60	1961	2020	227
740	12.33		118	1345	1463	59	1960	2019	223
745	12.42		180	1611	1791	59	1960	2019	220
750	12.50		232	2012	2244	59	1962	2021	216
755	12.58		297	2584	2882	59	1963	2022	214
760	12.67		436	3122	3558	61	1963	2024	212
765	12.75		637	3599	4235	64	1962	2026	210
770	12.83		894	4124	5019	69	1959	2027	209
775	12.92		1139	4718	5857	75	1954	2029	207
780	13.00		1265	5365	6630	85	1948	2033	206
785	13.08		1271	6105	7376	92	1940	2032	205
790	13.17		1201	6871	8071	97	1932	2029	204
795	13.25		1090	7595	8685	100	1922	2022	203
800	13.33		971	8200	9171	101	1912	2012	203
805	13.42		861	8659	9521	98	1900	1999	202
810	13.50		770	8966	9736	94	1888	1983	202
815	13.58		691	9138	9830	89	1875	1964	202
820	13.67		624	9184	9808	83	1862	1945	201
825	13.75		560	9113	9672	77	1848	1924	201
830	13.83		504	8963	9467	71	1833	1905	201
835	13.92		455	8747	9202	67	1819	1886	200
840	14.00		412	8485	8897	62	1804	1866	200
845	14.08		374	8194	8568	57	1789	1846	0
850	14.17		341	7897	8239	53	1774	1827	0
855	14.25		313	7619	7932	49	1758	1807	0
860	14.33		289	7340	7629	46	1742	1788	0
865	14.42		272	7056	7328	42	1727	1769	0
870	14.50		256	6780	7037	40	1711	1751	0
875	14.58		243	6531	6774	37	1696	1733	0
880	14.67		233	6308	6541	35	1680	1715	0
885	14.75		223	6077	6300	33	1665	1698	0
890	14.83		213	5846	6059	31	1651	1682	0
895	14.92		203	5623	5827	30	1636	1666	0
900	15.00		194	5416	5610	28	1622	1650	0
905	15.08		186	5215	5401	27	1609	1635	0
910	15.17		178	5015	5193	25	1595	1621	0
915	15.25		171	4813	4984	24	1582	1606	0
920	15.33		164	4608	4772	23	1569	1592	0
925	15.42		158	4406	4564	22	1557	1579	0
930	15.50		151	4224	4375	21	1545	1566	0
935	15.58		145	4049	4194	20	1533	1553	0
940	15.67		139	3868	4008	19	1521	1541	0
945	15.75		134	3703	3837	19	1510	1529	0
950	15.83		128	3571	3699	18	1500	1518	0
955	15.92		124	3454	3578	17	1489	1507	0
960	16.00		119	3334	3453	17	1479	1496	0
965	16.08		115	3191	3306	16	1470	1486	0
970	16.17		111	3097	3208	16	1460	1476	0
975	16.25		107	3021	3128	15	1450	1466	0

TABLE 1 (CONT'D)
HYDROGRAPH VALUES
ARIZONA CANAL CROSSING

TIME (min)	TIME (hr)		ADOT 24 HOUR FREEWAY (cfs)	ADOT 24 HOUR AZ CANAL (cfs)	ADOT 24 HOUR TOTAL (cfs)	ADOT 12 HOUR FREEWAY (cfs)	ADOT 12 HOUR AZ CANAL (cfs)	ADOT 12 HOUR TOTAL (cfs)	CORPS TOTAL (cfs)
		MAXIMUM	1271	9184	9830	1069	7378	7922	7824
980	16.33		103	2954	3057	15	1441	1456	0
985	16.42		100	2892	2992	14	1432	1446	0
990	16.50		97	2833	2930	14	1423	1437	0
995	16.58		94	2763	2857	14	1414	1427	0
1000	16.67		91	2690	2781	13	1406	1419	0
1005	16.75		89	2642	2730	13	1397	1410	0
1010	16.83		86	2594	2680	13	1388	1401	0
1015	16.92		84	2549	2632	12	1379	1392	0
1020	17.00		82	2505	2586	12	1371	1383	0
1025	17.08		80	2463	2542	12	1362	1374	0
1030	17.17		78	2423	2500	11	1354	1365	0
1035	17.25		76	2384	2460	11	1345	1356	0
1040	17.33		74	2348	2423	11	1337	1348	0
1045	17.42		73	2314	2387	11	1329	1339	0
1050	17.50		72	2281	2353	11	1320	1331	0
1055	17.58		70	2251	2321	10	1312	1322	0
1060	17.67		69	2221	2289	10	1303	1314	0
1065	17.75		67	2191	2259	10	1295	1305	0
1070	17.83		66	2163	2229	10	1287	1297	0
1075	17.92		65	2135	2200	10	1279	1288	0
1080	18.00		64	2108	2172	9	1271	1280	0
1085	18.08		63	2082	2145	9	1263	1272	0
1090	18.17		62	2057	2119	9	1255	1264	0
1095	18.25		61	2032	2093	9	1247	1256	0
1100	18.33		60	2008	2068	9	1240	1248	0
1105	18.42		59	1985	2043	9	1232	1241	0
1110	18.50		58	1962	2019	9	1224	1233	0
1115	18.58		57	1939	1996	8	1216	1225	0
1120	18.67		56	1917	1973	8	1208	1217	0
1125	18.75		55	1896	1951	8	1200	1209	0
1130	18.83		54	1875	1930	8	1193	1201	0
1135	18.92		53	1856	1909	8	1185	1193	0
1140	19.00		53	1837	1889	8	1177	1185	0
1145	19.08		52	1819	1871	8	1170	1178	0
1150	19.17		51	1801	1852	8	1162	1170	0
1155	19.25		50	1782	1832	8	1154	1161	0
1160	19.33		50	1763	1813	8	1145	1153	0
1165	19.42		49	1745	1794	7	1136	1144	0
1170	19.50		48	1726	1775	7	1128	1135	0
1175	19.58		48	1708	1756	7	1119	1127	0
1180	19.67		47	1690	1737	7	1111	1118	0
1185	19.75		46	1673	1719	7	1103	1110	0
1190	19.83		46	1655	1701	7	1094	1101	0
1195	19.92		45	1638	1683	7	1086	1093	0
1200	20.00		45	1621	1666	7	1078	1085	0
1205	20.08		44	1604	1648	7	1070	1077	0
1210	20.17		43	1588	1631	7	1062	1068	0
1215	20.25		43	1571	1614	7	1053	1060	0
1220	20.33		42	1555	1598	7	1046	1052	0

TABLE 1 (CONT'D)
HYDROGRAPH VALUES

ARIZONA CANAL CROSSING

TIME (min)	TIME (hr)		ADOT 24 HOUR FREEWAY (cfs)	ADOT 24 HOUR AZ CANAL (cfs)	ADOT 24 HOUR TOTAL (cfs)	ADOT 12 HOUR FREEWAY (cfs)	ADOT 12 HOUR AZ CANAL (cfs)	ADOT 12 HOUR TOTAL (cfs)	CORPS TOTAL (cfs)
		MAXIMUM	1271	9184	9830	1069	7378	7922	7824
1225	20.42		42	1539	1581	7	1038	1045	0
1230	20.50		41	1523	1565	7	1030	1037	0
1235	20.58		41	1508	1548	6	1022	1028	0
1240	20.67		40	1492	1532	6	1013	1020	0
1245	20.75		40	1476	1516	6	1005	1011	0
1250	20.83		39	1461	1501	6	996	1002	0
1255	20.92		39	1446	1485	6	987	994	0
1260	21.00		39	1431	1470	6	979	985	0
1265	21.08		38	1417	1455	6	970	976	0
1270	21.17		38	1404	1442	6	962	968	0
1275	21.25		37	1391	1428	6	953	959	0
1280	21.33		37	1377	1414	6	945	951	0
1285	21.42		36	1363	1400	6	937	943	0
1290	21.50		36	1350	1386	6	929	935	0
1295	21.58		36	1337	1373	6	921	926	0
1300	21.67		35	1324	1359	6	912	918	0
1305	21.75		35	1311	1346	6	904	910	0
1310	21.83		35	1299	1334	6	897	902	0
1315	21.92		34	1287	1322	6	889	895	0
1320	22.00		34	1275	1310	6	881	887	0
1325	22.08		34	1264	1298	6	873	879	0
1330	22.17		33	1252	1286	6	865	871	0
1335	22.25		33	1241	1274	6	857	863	0
1340	22.33		33	1229	1262	6	849	854	0
1345	22.42		33	1218	1251	6	840	846	0
1350	22.50		32	1207	1239	6	832	838	0
1355	22.58		32	1196	1228	6	824	830	0
1360	22.67		32	1185	1217	5	817	822	0
1365	22.75		32	1175	1206	5	810	815	0
1370	22.83		31	1165	1196	5	802	808	0
1375	22.92		31	1155	1186	5	795	801	0
1380	23.00		31	1144	1175	5	789	794	0
1385	23.08		31	1134	1165	5	782	787	0
1390	23.17		30	1123	1154	5	775	781	0
1395	23.25		30	1113	1143	5	769	774	0
1400	23.33		30	1103	1133	5	762	767	0
1405	23.42		30	1093	1122	5	755	760	0
1410	23.50		29	1083	1112	5	748	753	0
1415	23.58		29	1073	1102	5	741	746	0
1420	23.67		29	1063	1092	5	734	739	0
1425	23.75		29	1053	1082	5	726	732	0
1430	23.83		29	1044	1072	5	720	725	0
1435	23.92		28	1035	1063	5	713	719	0
1440	24.00		28	1025	1054	5	707	712	0

TABLE 2

DATUM RELATIONSHIPS

PIMA ROAD BRIDGE LOW CHORD

AGENCY	STATION	ELEVATION	REFERENCE
COE	26+13.55	1284.00	Exhibit 21
	(75+13.55)*		
SRP	325+90 (D/S)	1289.80	Appendix A
	326+22 (U/S)	1290.20	
SRP (AVG)	326+06	1290.00	
EQUATION	1284.00 (COE) = 1290.00 (SRP)		

SRP DATUM IS 6.0' HIGHER THAN COE

*Station on COE Indian Bend Wash interceptor channel stationing.

ALL APPENDICES

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (FT)
591.2	D	5,500	5.70	7.6	1276.50	177
	G	1,600	3.14	9.1	1280.50	56
	G	2,500	4.91	9.1	1280.50	56
	I	2,500	4.91	9.1	1280.50	56
605.2	C	2,500	4.90	9.1	1280.50	56
	D	5,500	5.68	7.6	1276.52	178
	G	1,600	3.14	9.1	1280.50	56
	G	2,500	4.90	9.1	1280.50	56
	I	2,500	4.90	9.1	1280.50	56
631.2	C	2,500	3.38	9.3	1280.72	89
	D	5,500	5.47	7.1	1276.60	183
	G	1,600	2.20	9.2	1280.59	88
	G	2,500	3.38	9.3	1280.72	89
	I	2,500	3.38	9.3	1280.72	89
1000	C	2,500	3.40	9.3	1280.76	89
	D	5,500	3.63	8.5	1277.15	237
	G	1,600	2.22	9.1	1280.61	88
	G	2,500	3.40	9.3	1280.76	89
	I	2,500	3.40	9.3	1280.76	89
1200	C	2,500	3.39	9.3	1280.79	89
	D	5,500	3.58	8.5	1277.24	238
	G	1,600	2.22	9.1	1280.62	88
	G	2,500	3.39	9.3	1280.79	89
	I	2,500	3.39	9.3	1280.79	89
1600	C	2,500	3.42	9.2	1280.83	88
	D	5,500	3.91	7.5	1277.41	224
	G	1,600	2.24	9.0	1280.63	88
	G	2,500	3.41	9.2	1280.83	89
	I	2,500	3.41	9.2	1280.83	89
1895	C	2,500	3.59	9.2	1280.86	82
	D	5,500	4.59	8.5	1277.59	180
	G	1,600	2.36	9.0	1280.65	82
	G	2,500	3.59	9.2	1280.86	82
	I	2,500	3.59	9.2	1280.86	82
1985	C	2,500	3.59	9.2	1280.88	82
	D	5,500	4.51	8.6	1277.70	180
	G	1,600	2.36	9.0	1280.65	82
	G	2,500	3.59	9.2	1280.88	82
	I	2,500	3.59	9.2	1280.88	82

ALL APPENDICES

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (FT)
2500	C	2,500	3.50	9.1	1280.96	87
	D	5,500	3.43	8.8	1278.16	244
	G	1,600	2.31	8.8	1280.69	87
	G	2,500	3.49	9.1	1280.96	88
	I	2,500	3.49	9.1	1280.96	88
2900	C	2,500	3.55	9.0	1281.00	87
	D	5,500	3.77	8.7	1278.31	228
	G	1,600	2.36	8.7	1280.71	87
	G	2,500	3.55	9.0	1281.00	87
	I	2,500	3.55	9.0	1281.00	87
3155.1	C	2,500	3.56	8.9	1281.04	87
	D	5,500	3.69	8.7	1278.43	217
	G	1,600	2.35	8.6	1280.73	88
	G	2,500	3.53	8.9	1281.04	89
	I	2,500	3.53	8.9	1281.04	89
3365	C	2,500	3.57	8.9	1281.06	88
	D	5,500	3.41	8.8	1278.55	247
	G	1,600	2.36	8.5	1280.74	89
	G	2,500	3.54	8.9	1281.07	89
	I	2,500	3.54	8.9	1281.07	89
4000	C	2,500	3.62	8.7	1281.14	88
	D	5,500	3.46	8.7	1278.80	243
	G	1,600	2.44	8.4	1280.77	87
	G	2,500	3.63	8.7	1281.14	87
	I	2,500	3.67	8.7	1281.14	86
4350	C	2,500	3.67	8.7	1281.19	87
	D	5,500	3.50	8.6	1278.94	241
	G	1,600	2.44	8.3	1280.80	88
	G	2,500	3.62	8.7	1281.19	89
	I	2,500	3.62	8.7	1281.20	89
4800	C	2,500	3.71	8.6	1281.25	88
	D	5,500	3.60	8.6	1279.12	231
	G	1,600	2.44	8.1	1280.83	91
	G	2,500	3.60	8.6	1281.26	92
	I	2,500	3.60	8.6	1281.26	92
5300	C	2,500	3.79	8.4	1281.32	87
	D	5,500	3.57	8.5	1279.34	238
	G	1,600	2.57	8.0	1280.86	86
	G	2,500	3.77	8.4	1281.32	87
	I	2,500	3.77	8.4	1281.32	87

ALL APPENDICES

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (FT)
5850	C	2,500	3.83	8.3	1281.40	87
	D	5,500	3.58	8.6	1279.58	236
	G	1,600	2.64	7.8	1280.90	85
	G	2,500	3.86	8.3	1281.40	86
	I	2,500	3.86	8.3	1281.40	86
5900	C	2,500	3.96	8.2	1281.40	85
	D	5,500	3.54	8.6	1279.61	239
	F	5,500	3.09	13.1	1279.61	245
	G	1,600	2.67	7.7	1280.90	85
	G	2,500	3.90	8.2	1281.40	86
	I	2,500	3.89	8.2	1281.41	86
6010	C	2,500	3.95	8.2	1281.42	85
	D	5,500	3.51	8.7	1279.66	239
	F	5,500	2.16	12.7	1279.72	445
	G	1,600	2.67	7.7	1280.91	85
	G	2,500	3.89	8.2	1281.42	86
	I	2,500	3.89	8.2	1281.43	86
6117	B	2,508	3.70	8.5	1281.72	111
	B	2,527	3.45	9.1	1282.30	112
	C	2,500	1.12	8.5	1281.68	392
	D	5,500	2.18	8.2	1279.77	352
	F	5,500	2.52	10.3	1279.73	491
	G	1,600	2.65	7.7	1280.92	108
	G	2,500	3.84	8.3	1281.45	108
	I	2,500	3.81	8.3	1281.46	123
6337	B	3,303	4.99	8.3	1281.64	111
	B	3,951	5.58	8.8	1282.14	112
	C	3,951	2.33	8.4	1281.65	301
	D	5,500	4.72	8.5	1279.67	188
	F	4,697	2.48	10.3	1279.79	307
	G	1,600	2.68	7.6	1280.94	108
	G	3,303	5.20	8.1	1281.37	108
	I	3,303	5.21	8.1	1281.37	108
6557	B	3,930	6.08	8.2	1281.59	111
	B	5,054	7.40	8.6	1281.98	111
	C	5,054	2.68	8.3	1281.66	333
	D	4,070	2.84	8.6	1280.02	214
	F	4,070	1.59	10.3	1279.88	327
	G	1,600	2.72	7.6	1280.95	112
	G	3,930	6.33	7.9	1281.31	112
	I	3,930	6.33	7.9	1281.31	112

ALL APPENDICES

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (FT)
6777	B	4,426	6.97	8.1	1281.57	111
	B	5,893	8.88	8.4	1281.87	111
	C	5,893	3.50	8.1	1281.64	301
	D	3,000	2.45	8.9	1280.11	186
	F	3,575	1.29	10.2	1279.91	330
	G	1,600	2.75	7.5	1280.97	110
	G	4,425	7.25	7.8	1281.29	110
	I	4,425	7.28	7.8	1281.29	110
6997	B	4,832	7.70	8.0	1281.58	110
	B	6,559	10.07	8.2	1281.84	110
	C	6,558	5.18	8.0	1281.57	257
	D	2,200	2.75	8.4	1280.14	142
	F	3,168	0.61	10.1	1279.93	626
	G	1,600	2.79	7.4	1280.99	110
	G	4,832	8.01	7.7	1281.32	110
	I	4,832	8.06	7.7	1281.31	110
7217	B	5,150	8.25	8.0	1281.65	110
	B	7,100	10.95	8.2	1281.91	111
	C	7,100	5.52	7.9	1281.62	257
	D	1,510	1.82	8.6	1280.26	151
	F	2,850	2.70	9.7	1279.88	138
	G	1,600	2.82	7.3	1281.01	110
	G	5,150	8.56	7.7	1281.40	110
	I	5,150	8.55	7.7	1281.41	110
7329	B	5,150	8.24	8.0	1281.73	87
	B	7,100	10.86	8.4	1282.07	87
	C	7,100	14.11	6.7	1280.35	81
	F	2,850	2.69	9.7	1279.91	138
	G	1,600	2.82	7.3	1281.02	85
	G	5,150	8.43	7.8	1281.53	86
	I	5,150	8.41	7.8	1281.54	86
7431	C	7,100	10.89	8.4	1282.06	87
	F	2,850	3.23	9.0	1279.91	116
	G	1,600	2.82	7.3	1281.04	85
	G	5,150	8.22	8.0	1281.73	86
	I	5,150	8.26	8.0	1281.73	86
7452	C	7,100	10.34	8.8	1282.45	87
	G	1,600	2.82	7.4	1281.06	85
	G	5,150	8.07	8.2	1281.89	86
	I	5,150	8.06	8.2	1281.90	86
	F	2,850	4.43	8.9	1279.85	79

ALL APPENDICES

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (FT)
7458	C	7,100	10.33	8.8	1282.46	87
	G	1,600	2.82	7.4	1281.06	85
	G	5,150	8.07	8.2	1281.90	86
	I	5,150	8.06	8.2	1281.91	86
7499	C	7,100	10.20	8.8	1282.60	88
	G	1,600	2.95	7.3	1281.06	82
	G	5,150	8.39	8.1	1281.93	83
	I	5,150	8.38	8.1	1281.94	83
7532	C	7,100	9.00	9.8	1283.64	90
	G	1,600	2.95	7.3	1281.07	82
	G	5,150	8.32	8.2	1282.00	84
	I	5,150	8.31	8.2	1282.00	84
7575	F	2,850	4.21	9.3	1280.29	79
7680	C	8,000	10.53	9.6	1283.45	89
	G	1,600	2.88	7.2	1281.09	84
	G	5,150	7.87	8.4	1282.25	87
	H	8,000	5.38	11.2	1282.44	466
	H	9,600	6.12	11.4	1282.60	563
	H	9,830	5.80	11.6	1282.80	685
	I	8,000	4.31	11.8	1283.02	807
7695	F	2,850	2.59	9.3	1280.49	137
7760	C	8,000	10.57	9.5	1283.53	89
	G	1,600	2.92	7.1	1281.10	84
	G	5,150	7.93	8.3	1282.30	87
	H	8,000	5.08	11.3	1282.57	544
	H	9,600	5.52	11.6	1282.83	704
	H	9,830	5.21	11.7	1283.02	810
	I	8,000	4.10	11.8	1283.11	815
7772	C	8,000	1.84	11.7	1285.72	1200
	F	2,850	2.61	9.2	1280.49	137
	G	1,600	2.93	7.1	1281.10	84
	G	5,150	8.62	8.2	1282.22	86
	H	8,000	5.84	11.2	1282.48	145
	H	9,600	6.89	11.4	1282.65	145
	H	9,830	6.94	11.5	1282.80	146
	I	8,000	5.56	11.7	1282.96	147

ALL APPENDICES

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (FT)
8100	C	8,000	3.40	11.7	1285.73	1520
	F	2,850	2.72	8.9	1280.51	136
	G	1,600	2.95	7.0	1281.14	84
	G	5,150	7.45	8.8	1282.87	88
	H	8,000	3.67	11.3	1282.96	816
	H	9,600	3.77	11.7	1283.37	942
	H	9,830	3.63	11.9	1283.55	991
	I	8,000	3.08	11.8	1283.43	956
8600	C	8,000	3.48	11.3	1285.77	1632
	E	5,147	7.40	8.8	1283.02	88
	F	2,850	2.90	8.4	1280.54	134
	G	1,600	2.97	7.0	1281.20	84
	G	5,150	7.24	9.0	1283.20	88
	H	8,000	3.47	11.1	1283.24	848
	H	9,600	3.57	11.5	1283.66	977
	H	9,830	3.46	11.7	1283.81	1023
	I	8,000	3.02	11.5	1283.62	964
8700	C	8,000	3.47	11.3	1285.78	1633
	E	5,163	7.48	8.8	1283.07	88
	F	2,850	2.94	8.3	1280.55	133
	G	1,600	3.01	6.9	1281.21	84
	G	5,164	7.31	8.9	1283.24	88
	H	8,000	3.56	11.0	1283.28	850
	H	9,600	3.64	11.5	1283.71	1003
	H	9,830	2.54	11.7	1283.91	1170
	I	8,000	2.99	11.4	1283.66	1023
8920	C	8,000	3.49	11.2	1285.80	1638
	E	5,464	7.96	8.7	1283.12	87
	F	2,838	3.01	8.1	1280.57	132
	G	1,600	3.05	6.8	1281.23	84
	G	5,465	7.79	8.9	1283.29	88
	H	8,000	3.33	11.0	1283.42	960
	H	9,600	3.39	11.4	1283.84	1069
	H	9,830	3.33	11.5	1283.95	1096
	I	8,000	2.94	11.3	1283.74	1043
9140	C	8,000	3.46	11.2	1285.82	1644
	E	5,813	8.46	8.7	1283.19	88
	F	2,560	2.78	7.9	1280.61	132
	G	1,600	3.07	6.8	1281.26	84
	G	5,813	8.29	8.9	1283.35	88
	H	8,000	3.30	10.8	1283.53	985
	H	9,600	3.34	11.3	1283.95	1095
	H	9,830	3.30	11.4	1284.05	1109
	I	8,000	2.93	11.1	1283.82	1062

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SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (FT)
9360	C	8,000	4.48	11.3	1285.79	1437
	E	6,210	9.13	8.6	1283.24	87
	F	2,222	2.48	7.8	1280.65	131
	G	1,600	3.12	6.7	1281.28	84
	G	6,210	8.95	8.8	1283.40	88
	H	8,000	3.61	10.7	1283.62	923
	H	9,600	2.61	11.2	1284.08	1127
	H	9,830	2.60	11.3	1284.17	1139
	I	8,000	3.65	11.0	1283.87	895
9460	C	8,000	4.46	11.3	1285.80	1440
	E	6,250	9.08	8.7	1283.34	88
	F	1,804	2.03	7.7	1280.69	131
	G	1,600	3.11	6.7	1281.30	84
	G	6,250	8.91	8.9	1283.49	88
	H	8,000	4.02	10.7	1283.65	823
	H	9,600	2.80	11.1	1284.09	1047
	H	9,830	2.79	11.2	1284.18	1068
	I	8,000	3.59	10.9	1283.93	913
9600	C	8,000	3.72	11.3	1285.89	1429
	E	6,250	4.49	10.0	1284.59	1185
	F	1,750	2.13	7.6	1280.70	157
	G	1,600	3.10	6.7	1281.32	84
	G	6,250	4.34	10.1	1284.70	1206
	H	8,000	3.70	10.6	1283.74	297
	H	9,600	4.26	10.9	1284.04	297
	H	9,830	4.31	11.0	1284.12	297
	I	8,000	3.97	10.8	1283.97	297
9770	C	8,000	3.70	11.3	1285.91	1433
	E	6,250	4.44	10.0	1284.62	1192
	F	1,750	2.17	7.4	1280.71	158
	G	1,600	3.09	6.7	1281.34	84
	G	6,250	4.29	10.1	1284.73	1214
	H	8,000	3.71	10.5	1283.76	307
	H	9,600	4.27	10.8	1284.07	307
	H	9,830	4.32	10.9	1284.16	307
	I	8,000	3.92	10.7	1284.00	307
9800	C	8,000	3.75	11.2	1285.91	1473
	F	1,750	0.28	7.5	1280.79	1612
	H	8,000	0.65	10.7	1283.99	1765
	H	9,600	0.74	11.0	1284.37	1771
	H	9,830	0.75	11.1	1284.47	1773
	I	8,000	0.64	10.9	1284.23	1769

ALL APPENDICES

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (FT)
9885	C	8,000	4.33	11.2	1285.89	1217
	F	1,750	5.89	1.7	1281.70	283
	H	8,000	4.05	9.1	1283.82	719
	H	9,600	4.26	9.5	1284.18	830
	H	9,830	4.20	9.6	1284.28	875
	I	8,000	3.12	9.4	1284.06	774
9900	C	8,000	4.54	11.1	1285.88	1201
	E	6,250	5.18	9.8	1284.58	923
	F	8,000	7.48	3.6	1283.89	643
	G	1,600	3.18	6.6	1281.35	83
	G	6,250	5.02	9.9	1284.69	956
	H	8,000	4.65	9.0	1283.79	716
	H	9,600	4.80	9.4	1284.16	797
	H	9,830	4.72	9.5	1284.26	829
	I	8,000	3.31	9.2	1284.02	752
10000	C	8,000	4.53	11.1	1285.89	1202
	E	6,250	5.14	9.8	1284.61	931
	F	8,000	4.83	4.4	1284.67	867
	G	1,600	3.18	6.6	1281.37	83
	G	6,250	4.99	9.9	1284.72	961
	H	8,000	4.41	9.1	1283.92	735
	H	9,600	4.55	9.5	1284.30	840
	H	9,830	4.49	9.6	1284.39	869
	I	8,000	3.20	9.3	1284.12	784
10600	C	8,000	4.81	11.0	1285.97	1374
	F	8,000	3.07	3.8	1285.77	1228
	G	1,600	3.24	6.5	1281.46	83
	G	6,250	5.51	9.8	1284.81	1064
	I	8,000	1.51	9.0	1283.98	833
11100	C	8,000	4.50	10.9	1286.10	1395
	F	8,000	2.33	5.0	1286.29	1339
	G	1,600	3.31	6.3	1281.53	83
	G	6,250	5.03	9.8	1285.01	1191
	I	8,000	1.39	9.7	1284.94	1165
11200	C	8,000	4.52	10.9	1286.11	1399
	F	8,000	2.31	4.4	1286.35	1349
	G	1,600	3.32	6.4	1281.55	82
	G	6,250	8.59	9.2	1284.43	88
	I	8,000	3.56	3.4	1285.39	1173

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SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (FT)
11400	C	8,000	4.52	10.9	1286.15	1397
	F	8,000	1.13	11.0	1286.34	1420
	G	1,600	3.35	6.3	1281.58	82
	G	6,250	8.54	9.3	1284.59	88
	I	8,000	3.24	3.6	1285.60	1213
11900	C	8,000	4.41	10.7	1286.24	1407
	F	8,000	1.13	10.9	1286.42	1430
	G	1,600	3.42	6.2	1281.66	82
	G	6,250	8.34	9.5	1284.99	88
	I	8,000	1.26	3.8	1285.80	1341
12300	C	8,000	4.31	10.7	1286.31	1416
	F	8,000	1.13	10.9	1286.49	1437
	G	1,600	3.44	6.1	1281.73	82
	G	6,250	8.13	9.7	1285.30	88
	I	8,000	1.25	3.9	1285.92	1364
12400	C	8,000	4.32	10.6	1286.33	1478
	F	8,000	1.11	10.8	1286.50	1530
	G	1,600	3.48	6.1	1281.75	82
	G	6,250	3.35	10.7	1286.35	1484
	I	8,000	1.25	10.3	1285.95	1368
12900	C	8,000	4.31	10.5	1286.41	1427
	F	8,000	1.14	10.7	1286.58	1448
	G	1,600	3.54	5.9	1281.84	82
	G	6,250	3.37	10.5	1286.40	1426
	I	8,000	1.25	10.2	1286.07	1386
13200	C	8,000	4.29	10.5	1286.45	1434
	F	8,000	1.14	10.6	1286.63	1455
	G	1,600	3.57	5.9	1281.90	82
	G	6,250	3.38	10.4	1286.42	1430
	I	8,000	1.24	10.1	1286.14	1395
13600	C	8,000	4.20	10.3	1286.52	1441
	F	8,000	1.14	10.5	1286.69	1462
	G	1,600	3.65	5.8	1281.98	82
	G	6,250	3.34	10.3	1286.47	1435
	I	8,000	1.24	10.0	1286.24	1409
13700	C	8,000	11.09	9.1	1285.31	88
	F	8,000	2.02	4.6	1286.80	1384
	G	1,600	3.63	5.8	1282.01	82
	G	6,250	8.15	9.6	1285.82	89
	I	8,000	2.33	4.2	1286.41	1336

ALL APPENDICES

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (FT)
13800	C	8,000	10.78	9.3	1285.54	89
	F	8,000	2.00	4.7	1286.85	1388
	G	1,600	3.62	5.8	1282.03	82
	G	6,250	8.08	9.7	1285.90	90
	I	8,000	2.28	4.3	1286.48	1344

ARIZONA CANAL ONLY

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
591.2	G	1,600	3.14	9.1	1280.50	56
	G	2,500	4.91	9.1	1280.50	56
	I	2,500	4.91	9.1	1280.50	56
605.2	C	2,500	4.90	9.1	1280.50	56
	G	1,600	3.14	9.1	1280.50	56
	G	2,500	4.90	9.1	1280.50	56
	I	2,500	4.90	9.1	1280.50	56
631.2	C	2,500	3.38	9.3	1280.72	89
	G	1,600	2.20	9.2	1280.59	88
	G	2,500	3.38	9.3	1280.72	89
	I	2,500	3.38	9.3	1280.72	89
1000	C	2,500	3.40	9.3	1280.76	89
	G	1,600	2.22	9.1	1280.61	88
	G	2,500	3.40	9.3	1280.76	89
	I	2,500	3.40	9.3	1280.76	89
1200	C	2,500	3.39	9.3	1280.79	89
	G	1,600	2.22	9.1	1280.62	88
	G	2,500	3.39	9.3	1280.79	89
	I	2,500	3.39	9.3	1280.79	89
1600	C	2,500	3.42	9.2	1280.83	88
	G	1,600	2.24	9.0	1280.63	88
	G	2,500	3.41	9.2	1280.83	89
	I	2,500	3.41	9.2	1280.83	89
1895	C	2,500	3.59	9.2	1280.86	82
	G	1,600	2.36	9.0	1280.65	82
	G	2,500	3.59	9.2	1280.86	82
	I	2,500	3.59	9.2	1280.86	82
1985	C	2,500	3.59	9.2	1280.88	82
	G	1,600	2.36	9.0	1280.65	82
	G	2,500	3.59	9.2	1280.88	82
	I	2,500	3.59	9.2	1280.88	82
2500	C	2,500	3.50	9.1	1280.96	87
	G	1,600	2.31	8.8	1280.69	87
	G	2,500	3.49	9.1	1280.96	88
	I	2,500	3.49	9.1	1280.96	88
2900	C	2,500	3.55	9.0	1281.00	87
	G	1,600	2.36	8.7	1280.71	87
	G	2,500	3.55	9.0	1281.00	87
	I	2,500	3.55	9.0	1281.00	87

ARIZONA CANAL ONLY

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
3155.1	C	2,500	3.56	8.9	1281.04	87
	G	1,600	2.35	8.6	1280.73	88
	G	2,500	3.53	8.9	1281.04	89
	I	2,500	3.53	8.9	1281.04	89
3365	C	2,500	3.57	8.9	1281.06	88
	G	1,600	2.36	8.5	1280.74	89
	G	2,500	3.54	8.9	1281.07	89
	I	2,500	3.54	8.9	1281.07	89
4000	C	2,500	3.62	8.7	1281.14	88
	G	1,600	2.44	8.4	1280.77	87
	G	2,500	3.63	8.7	1281.14	87
	I	2,500	3.67	8.7	1281.14	86
4350	C	2,500	3.67	8.7	1281.19	87
	G	1,600	2.44	8.3	1280.80	88
	G	2,500	3.62	8.7	1281.19	89
	I	2,500	3.62	8.7	1281.20	89
4800	C	2,500	3.71	8.6	1281.25	88
	G	1,600	2.44	8.1	1280.83	91
	G	2,500	3.60	8.6	1281.26	92
	I	2,500	3.60	8.6	1281.26	92
5300	C	2,500	3.79	8.4	1281.32	87
	G	1,600	2.57	8.0	1280.86	86
	G	2,500	3.77	8.4	1281.32	87
	I	2,500	3.77	8.4	1281.32	87
5850	C	2,500	3.83	8.3	1281.40	87
	G	1,600	2.64	7.8	1280.90	85
	G	2,500	3.86	8.3	1281.40	86
	I	2,500	3.86	8.3	1281.40	86
5900	C	2,500	3.96	8.2	1281.40	85
	G	1,600	2.67	7.7	1280.90	85
	G	2,500	3.90	8.2	1281.40	86
	I	2,500	3.89	8.2	1281.41	86
6010	C	2,500	3.95	8.2	1281.42	85
	G	1,600	2.67	7.7	1280.91	85
	G	2,500	3.89	8.2	1281.42	86
	I	2,500	3.89	8.2	1281.43	86
6117	C	2,500	1.12	8.5	1281.68	392
	G	1,600	2.65	7.7	1280.92	108
	G	2,500	3.84	8.3	1281.45	108
	I	2,500	3.81	8.3	1281.46	123

ARIZONA CANAL ONLY

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
6337	C	3,951	2.33	8.4	1281.65	301
	G	1,600	2.68	7.6	1280.94	108
	G	3,303	5.20	8.1	1281.37	108
	I	3,303	5.21	8.1	1281.37	108
6557	C	5,054	2.68	8.3	1281.66	333
	G	1,600	2.72	7.6	1280.95	112
	G	3,930	6.33	7.9	1281.31	112
	I	3,930	6.33	7.9	1281.31	112
6777	C	5,893	3.50	8.1	1281.64	301
	G	1,600	2.75	7.5	1280.97	110
	G	4,425	7.25	7.8	1281.29	110
	I	4,425	7.28	7.8	1281.29	110
6997	C	6,558	5.18	8.0	1281.57	257
	G	1,600	2.79	7.4	1280.99	110
	G	4,832	8.01	7.7	1281.32	110
	I	4,832	8.06	7.7	1281.31	110
7217	C	7,100	5.52	7.9	1281.62	257
	G	1,600	2.82	7.3	1281.01	110
	G	5,150	8.56	7.7	1281.40	110
	I	5,150	8.55	7.7	1281.41	110
7329	C	7,100	14.11	6.7	1280.35	81
	G	1,600	2.82	7.3	1281.02	85
	G	5,150	8.43	7.8	1281.53	86
	I	5,150	8.41	7.8	1281.54	86
7431	C	7,100	10.89	8.4	1282.06	87
	G	1,600	2.82	7.3	1281.04	85
	G	5,150	8.22	8.0	1281.73	86
	I	5,150	8.26	8.0	1281.73	86
7452	C	7,100	10.34	8.8	1282.45	87
	G	1,600	2.82	7.4	1281.06	85
	G	5,150	8.07	8.2	1281.89	86
	I	5,150	8.06	8.2	1281.90	86
7458	C	7,100	10.33	8.8	1282.46	87
	G	1,600	2.82	7.4	1281.06	85
	G	5,150	8.07	8.2	1281.90	86
	I	5,150	8.06	8.2	1281.91	86
7499	C	7,100	10.20	8.8	1282.60	88
	G	1,600	2.95	7.3	1281.06	82
	G	5,150	8.39	8.1	1281.93	83
	I	5,150	8.38	8.1	1281.94	83

ARIZONA CANAL ONLY

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
7532	C	7,100	9.00	9.8	1283.64	90
	G	1,600	2.95	7.3	1281.07	82
	G	5,150	8.32	8.2	1282.00	84
	I	5,150	8.31	8.2	1282.00	84
7680	C	8,000	10.53	9.6	1283.45	89
	G	1,600	2.88	7.2	1281.09	84
	G	5,150	7.87	8.4	1282.25	87
	I	8,000	4.31	11.8	1283.02	807
7760	C	8,000	10.57	9.5	1283.53	89
	G	1,600	2.92	7.1	1281.10	84
	G	5,150	7.93	8.3	1282.30	87
	I	8,000	4.10	11.8	1283.11	815
7772	C	8,000	1.84	11.7	1285.72	1200
	G	1,600	2.93	7.1	1281.10	84
	G	5,150	8.62	8.2	1282.22	86
	I	8,000	5.56	11.7	1282.96	147
8100	C	8,000	3.40	11.7	1285.73	1520
	G	1,600	2.95	7.0	1281.14	84
	G	5,150	7.45	8.8	1282.87	88
	I	8,000	3.08	11.8	1283.43	956
8600	C	8,000	3.48	11.3	1285.77	1632
	G	1,600	2.97	7.0	1281.20	84
	G	5,150	7.24	9.0	1283.20	88
	I	8,000	3.02	11.5	1283.62	964
8700	C	8,000	3.47	11.3	1285.78	1633
	G	1,600	3.01	6.9	1281.21	84
	G	5,164	7.31	8.9	1283.24	88
	I	8,000	2.99	11.4	1283.66	1023
8920	C	8,000	3.49	11.2	1285.80	1638
	G	1,600	3.05	6.8	1281.23	84
	G	5,465	7.79	8.9	1283.29	88
	I	8,000	2.94	11.3	1283.74	1043
9140	C	8,000	3.46	11.2	1285.82	1644
	G	1,600	3.07	6.8	1281.26	84
	G	5,813	8.29	8.9	1283.35	88
	I	8,000	2.93	11.1	1283.82	1062
9360	C	8,000	4.48	11.3	1285.79	1437
	G	1,600	3.12	6.7	1281.28	84
	G	6,210	8.95	8.8	1283.40	88
	I	8,000	3.65	11.0	1283.87	895

ARIZONA CANAL ONLY

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
9460	C	8,000	4.46	11.3	1285.80	1440
	G	1,600	3.11	6.7	1281.30	84
	G	6,250	8.91	8.9	1283.49	88
	I	8,000	3.59	10.9	1283.93	913
9600	C	8,000	3.72	11.3	1285.89	1429
	G	1,600	3.10	6.7	1281.32	84
	G	6,250	4.34	10.1	1284.70	1206
	I	8,000	3.97	10.8	1283.97	297
9770	C	8,000	3.70	11.3	1285.91	1433
	G	1,600	3.09	6.7	1281.34	84
	G	6,250	4.29	10.1	1284.73	1214
	I	8,000	3.92	10.7	1284.00	307
9800	C	8,000	3.75	11.2	1285.91	1473
	I	8,000	0.64	10.9	1284.23	1769
9885	C	8,000	4.33	11.2	1285.89	1217
	I	8,000	3.12	9.4	1284.06	774
9900	C	8,000	4.54	11.1	1285.88	1201
	G	1,600	3.18	6.6	1281.35	83
	G	6,250	5.02	9.9	1284.69	956
	I	8,000	3.31			
10000	C	8,000	4.53			
	G	1,600	3.18			
	G	6,250	4.99			
	I	8,000	3.20			
10600	C	8,000	4.81			
	G	1,600	3.24			
	G	6,250	5.51			
	I	8,000	1.51			
11100	C	8,000	4.50			
	G	1,600	3.31			
	G	6,250	5.03			
	I	8,000	1.39			
11200	C	8,000	4.52			
	G	1,600	3.32	6.4	1281.55	82
	G	6,250	8.59	9.2	1284.43	88
	I	8,000	3.56	3.4	1285.39	1173

1000 - overtopping? 8000, cfs

ARIZONA CANAL ONLY

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
9460	C	8,000	4.46	11.3	1285.80	1440
	G	1,600	3.11	6.7	1281.30	84
	G	6,250	8.91	8.9	1283.49	88
	I	8,000	3.59	10.9	1283.93	913
9600	C	8,000	3.72	11.3	1285.89	1429
	G	1,600	3.10	6.7	1281.32	84
	G	6,250	4.34	10.1	1284.70	1206
	I	8,000	3.97	10.8	1283.97	297
9770	C	8,000	3.70	11.3	1285.91	1433
	G	1,600	3.09	6.7	1281.34	84
	G	6,250	4.29	10.1	1284.73	1214
	I	8,000	3.92	10.7	1284.00	307
9800	C	8,000	3.75	11.2	1285.91	1473
	I	8,000	0.64	10.9	1284.23	1769
9885	C	8,000	4.33	11.2	1285.89	1217
	I	8,000	3.12	9.4	1284.06	774
9900	C	8,000	4.54	11.1	1285.88	1201
	G	1,600	3.18	6.6	1281.35	83
	G	6,250	5.02	9.9	1284.69	956
	I	8,000	3.31	9.2	1284.02	752
10000	C	8,000	4.53	11.1	1285.89	1202
	G	1,600	3.18	6.6	1281.37	83
	G	6,250	4.99	9.9	1284.72	961
	I	8,000	3.20	9.3	1284.12	784
10600	C	8,000	4.81	11.0	1285.97	1374
	G	1,600	3.24	6.5	1281.46	83
	G	6,250	5.51	9.8	1284.81	1064
	I	8,000	1.51	9.0	1283.98	833
11100	C	8,000	4.50	10.9	1286.10	1395
	G	1,600	3.31	6.3	1281.53	83
	G	6,250	5.03	9.8	1285.01	1191
	I	8,000	1.39	9.7	1284.94	1165
11200	C	8,000	4.52	10.9	1286.11	1399
	G	1,600	3.32	6.4	1281.55	82
	G	6,250	8.59	9.2	1284.43	88
	I	8,000	3.56	3.4	1285.39	1173

ARIZONA CANAL ONLY

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
11400	C	8,000	4.52	10.9	1286.15	1397
	G	1,600	3.35	6.3	1281.58	82
	G	6,250	8.54	9.3	1284.59	88
	I	8,000	3.24	3.6	1285.60	1213
11900	C	8,000	4.41	10.7	1286.24	1407
	G	1,600	3.42	6.2	1281.66	82
	G	6,250	8.34	9.5	1284.99	88
	I	8,000	1.26	3.8	1285.80	1341
12300	C	8,000	4.31	10.7	1286.31	1416
	G	1,600	3.44	6.1	1281.73	82
	G	6,250	8.13	9.7	1285.30	88
	I	8,000	1.25	3.9	1285.92	1364
12400	C	8,000	4.32	10.6	1286.33	1478
	G	1,600	3.48	6.1	1281.75	82
	G	6,250	3.35	10.7	1286.35	1484
	I	8,000	1.25	10.3	1285.95	1368
12900	C	8,000	4.31	10.5	1286.41	1427
	G	1,600	3.54	5.9	1281.84	82
	G	6,250	3.37	10.5	1286.40	1426
	I	8,000	1.25	10.2	1286.07	1386
13200	C	8,000	4.29	10.5	1286.45	1434
	G	1,600	3.57	5.9	1281.90	82
	G	6,250	3.38	10.4	1286.42	1430
	I	8,000	1.24	10.1	1286.14	1395
13600	C	8,000	4.20	10.3	1286.52	1441
	G	1,600	3.65	5.8	1281.98	82
	G	6,250	3.34	10.3	1286.47	1435
	I	8,000	1.24	10.0	1286.24	1409
13700	C	8,000	11.09	9.1	1285.31	88
	G	1,600	3.63	5.8	1282.01	82
	G	6,250	8.15	9.6	1285.82	89
	I	8,000	2.33	4.2	1286.41	1336
13800	C	8,000	10.78	9.3	1285.54	89
	G	1,600	3.62	5.8	1282.03	82
	G	6,250	8.08	9.7	1285.90	90
	I	8,000	2.28	4.3	1286.48	1344

INTERCEPTOR CHANNELS ONLY
(COE AND ADOT)

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
591.2	I	2,500	4.91	9.1	1280.50	56
605.2	D	5,500	5.68	7.6	1276.52	178
	I	2,500	4.90	9.1	1280.50	56
631	D	5,500	5.47	7.1	1276.60	183
	I	2,500	3.38	9.3	1280.72	89
1000	D	5,500	3.63	8.5	1277.15	237
	I	2,500	3.40	9.3	1280.76	89
1200	D	5,500	3.58	8.5	1277.24	238
	I	2,500	3.39	9.3	1280.79	89
1600	D	5,500	3.91	7.5	1277.41	224
	I	2,500	3.41	9.2	1280.83	89
1895	D	5,500	4.59	8.5	1277.59	180
	I	2,500	3.59	9.2	1280.86	82
1985	D	5,500	4.51	8.6	1277.70	180
	I	2,500	3.59	9.2	1280.88	82
2500	D	5,500	3.43	8.8	1278.16	244
	I	2,500	3.49	9.1	1280.96	88
2900	D	5,500	3.77	8.7	1278.31	228
	I	2,500	3.55	9.0	1281.00	87
3155.1	D	5,500	3.69	8.7	1278.43	217
	I	2,500	3.53	8.9	1281.04	89
3365	D	5,500	3.41	8.8	1278.55	247
	I	2,500	3.54	8.9	1281.07	89
4000	D	5,500	3.46	8.7	1278.80	243
	I	2,500	3.67	8.7	1281.14	86
4350	D	5,500	3.50	8.6	1278.94	241
	I	2,500	3.62	8.7	1281.20	89
4800	D	5,500	3.60	8.6	1279.12	231
	I	2,500	3.60	8.6	1281.26	92
5300	D	5,500	3.57	8.5	1279.34	238
	I	2,500	3.77	8.4	1281.32	87
5850	D	5,500	3.58	8.6	1279.58	236
	I	2,500	3.86	8.3	1281.40	86

INTERCEPTOR CHANNEL
(COE AND ADOT

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)			
5900	D	5,500	3.54			
	F	5,500	3.09			
	I	2,500	3.89			
6010	D	5,500	3.51			
	F	5,500	2.16			
	I	2,500	3.89			
6117	D	5,500	2.18	8.2	1279.77	352
	F	5,500	2.52	10.3	1279.73	491
	I	2,500	3.81	8.3	1281.46	123
6337	D	5,500	4.72	8.5	1279.67	188
	F	4,697	2.48	10.3	1279.79	307
	I	3,303	5.21	8.1	1281.37	108
6557	D	4,070	2.84	8.6	1280.02	214
	F	4,070	1.59	10.3	1279.88	327
	I	3,930	6.33	7.9	1281.31	112
6777	D	3,000	2.45	8.9	1280.11	186
	F	3,575	1.29	10.2	1279.91	330
	I	4,425	7.28	7.8	1281.29	110
6997	D	2,200	2.75	8.4	1280.14	142
	F	3,168	0.61	10.1	1279.93	626
	I	4,832	8.06	7.7	1281.31	110
7217	D	1,510	1.82	8.6	1280.26	151
	F	2,850	2.70	9.7	1279.88	138
	I	5,150	8.55	7.7	1281.41	110
7329	F	2,850	2.69	9.7	1279.91	138
	I	5,150	8.41	7.8	1281.54	86
7431	F	2,850	3.23	9.0	1279.91	116
	I	5,150	8.26	8.0	1281.73	86
7452	I	5,150	8.06	8.2	1281.90	86
7455	F	2,850	4.43	8.9	1279.85	79
7458	I	5,150	8.06	8.2	1281.91	86
7499	I	5,150	8.38	8.1	1281.94	83
7532	I	5,150	8.31	8.2	1282.00	84

>Q ⇒ WSE < TW ??!
(6117)
(6337)

What frequencies are Qs?

INTERCEPTOR CHANNELS ONLY
(COE AND ADOT)

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
5900	D	5,500	3.54	8.6	1279.61	239
	F	5,500	3.09	13.1	1279.61	245
	I	2,500	3.89	8.2	1281.41	86
6010	D	5,500	3.51	8.7	1279.66	239
	F	5,500	2.16	12.7	1279.72	445
	I	2,500	3.89	8.2	1281.43	86
6117	D	5,500	2.18	8.2	1279.77	352
	F	5,500	2.52	10.3	1279.73	491
	I	2,500	3.81	8.3	1281.46	123
6337	D	5,500	4.72	8.5	1279.67	188
	F	4,697	2.48	10.3	1279.79	307
	I	3,303	5.21	8.1	1281.37	108
6557	D	4,070	2.84	8.6	1280.02	214
	F	4,070	1.59	10.3	1279.88	327
	I	3,930	6.33	7.9	1281.31	112
6777	D	3,000	2.45	8.9	1280.11	186
	F	3,575	1.29	10.2	1279.91	330
	I	4,425	7.28	7.8	1281.29	110
6997	D	2,200	2.75	8.4	1280.14	142
	F	3,168	0.61	10.1	1279.93	626
	I	4,832	8.06	7.7	1281.31	110
7217	D	1,510	1.82	8.6	1280.26	151
	F	2,850	2.70	9.7	1279.88	138
	I	5,150	8.55	7.7	1281.41	110
7329	F	2,850	2.69	9.7	1279.91	138
	I	5,150	8.41	7.8	1281.54	86
7431	F	2,850	3.23	9.0	1279.91	116
	I	5,150	8.26	8.0	1281.73	86
7452	I	5,150	8.06	8.2	1281.90	86
7455	F	2,850	4.43	8.9	1279.85	79
7458	I	5,150	8.06	8.2	1281.91	86
7499	I	5,150	8.38	8.1	1281.94	83
7532	I	5,150	8.31	8.2	1282.00	84

INTERCEPTOR CHANNELS ONLY
(COE AND ADOT)

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
7575	F	2,850	4.21	9.3	1280.29	79
7680	H	8,000	5.38	11.2	1282.44	466
	H	9,600	6.12	11.4	1282.60	563
	H	9,830	5.80	11.6	1282.80	685
	I	8,000	4.31	11.8	1283.02	807
7695	F	2,850	2.59	9.3	1280.49	137
7760	H	8,000	5.08	11.3	1282.57	544
	H	9,600	5.52	11.6	1282.83	704
	H	9,830	5.21	11.7	1283.02	810
	I	8,000	4.10	11.8	1283.11	815
7772	F	2,850	2.61	9.2	1280.49	137
	H	8,000	5.84	11.2	1282.48	145
	H	9,600	6.89	11.4	1282.65	145
	H	9,830	6.94	11.5	1282.80	146
	I	8,000	5.56	11.7	1282.96	147
8100	F	2,850	2.72	8.9	1280.51	136
	H	8,000	3.67	11.3	1282.96	816
	H	9,600	3.77	11.7	1283.37	942
	H	9,830	3.63	11.9	1283.55	991
	I	8,000	3.08	11.8	1283.43	956
8600	F	2,850	2.90	8.4	1280.54	134
	H	8,000	3.47	11.1	1283.24	848
	H	9,600	3.57	11.5	1283.66	977
	H	9,830	3.46	11.7	1283.81	1023
	I	8,000	3.02	11.5	1283.62	964
8700	F	2,850	2.94	8.3	1280.55	133
	H	8,000	3.56	11.0	1283.28	850
	H	9,600	3.64	11.5	1283.71	1003
	H	9,830	2.54	11.7	1283.91	1170
	I	8,000	2.99	11.4	1283.66	1023
8920	F	2,838	3.01	8.1	1280.57	132
	H	8,000	3.33	11.0	1283.42	960
	H	9,600	3.39	11.4	1283.84	1069
	H	9,830	3.33	11.5	1283.95	1096
	I	8,000	2.94	11.3	1283.74	1043
9140	F	2,560	2.78	7.9	1280.61	132
	H	8,000	3.30	10.8	1283.53	985
	H	9,600	3.34	11.3	1283.95	1095
	H	9,830	3.30	11.4	1284.05	1109
	I	8,000	2.93	11.1	1283.82	1062

INTERCEPTOR CHANNELS ONLY
(COE AND ADOT)

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
9360	F	2,222	2.48	7.8	1280.65	131
	H	8,000	3.61	10.7	1283.62	923
	H	9,600	2.61	11.2	1284.08	1127
	H	9,830	2.60	11.3	1284.17	1139
	I	8,000	3.65	11.0	1283.87	895
9460	F	1,804	2.03	7.7	1280.69	131
	H	8,000	4.02	10.7	1283.65	823
	H	9,600	2.80	11.1	1284.09	1047
	H	9,830	2.79	11.2	1284.18	1068
	I	8,000	3.59	10.9	1283.93	913
9600	F	1,750	2.13	7.6	1280.70	157
	H	8,000	3.70	10.6	1283.74	297
	H	9,600	4.26	10.9	1284.04	297
	H	9,830	4.31	11.0	1284.12	297
	I	8,000	3.97	10.8	1283.97	297
9770	F	1,750	2.17	7.4	1280.71	158
	H	8,000	3.71	10.5	1283.76	307
	H	9,600	4.27	10.8	1284.07	307
	H	9,830	4.32	10.9	1284.16	307
	I	8,000	3.92	10.7	1284.00	307
9800	F	1,750	0.28	7.5	1280.79	1612
	H	8,000	0.65	10.7	1283.99	1765
	H	9,600	0.74	11.0	1284.37	1771
	H	9,830	0.75	11.1	1284.47	1773
	I	8,000	0.64	10.9	1284.23	1769
9885	F	1,750	5.89	1.7	1281.70	283
	H	8,000	4.05	9.1	1283.82	719
	H	9,600	4.26	9.5	1284.18	830
	H	9,830	4.20	9.6	1284.28	875
	I	8,000	3.12	9.4	1284.06	774
9900	F	8,000	7.48	3.6	1283.89	643
	H	8,000	4.65	9.0	1283.79	716
	H	9,600	4.80	9.4	1284.16	797
	H	9,830	4.72	9.5	1284.26	829
	I	8,000	3.31	9.2	1284.02	752
10000	F	8,000	4.83	4.4	1284.67	867
	H	8,000	4.41	9.1	1283.92	735
	H	9,600	4.55	9.5	1284.30	840
	H	9,830	4.49	9.6	1284.39	869
	I	8,000	3.20	9.3	1284.12	784

INTERCEPTOR CHANNELS ONLY
(COE AND ADOT)

SECTION NUMBER	APPENDIX	FLOW (cfs)	VELOCITY (ft/sec)	DEPTH (ft)	WATER SURFACE ELEVATION	TOP WIDTH (ft)
10600	F	8,000	3.07	3.8	1285.77	1228
	I	8,000	1.51	9.0	1283.98	833
11100	F	8,000	2.33	5.0	1286.29	1339
	I	8,000	1.39	9.7	1284.94	1165
11200	F	8,000	2.31	4.4	1286.35	1349
	I	8,000	3.56	3.4	1285.39	1173
11400	F	8,000	1.13	11.0	1286.34	1420
	I	8,000	3.24	3.6	1285.60	1213
11900	F	8,000	1.13	10.9	1286.42	1430
	I	8,000	1.26	3.8	1285.80	1341
12300	F	8,000	1.13	10.9	1286.49	1437
	I	8,000	1.25	3.9	1285.92	1364
12400	F	8,000	1.11	10.8	1286.50	1530
	I	8,000	1.25	10.3	1285.95	1368
12900	F	8,000	1.14	10.7	1286.58	1448
	I	8,000	1.25	10.2	1286.07	1386
13200	F	8,000	1.14	10.6	1286.63	1455
	I	8,000	1.24	10.1	1286.14	1395
13600	F	8,000	1.14	10.5	1286.69	1462
	I	8,000	1.24	10.0	1286.24	1409
13700	F	8,000	2.02	4.6	1286.80	1384
	I	8,000	2.33	4.2	1286.41	1336
13800	F	8,000	2.00	4.7	1286.85	1388
	I	8,000	2.28	4.3	1286.48	1344

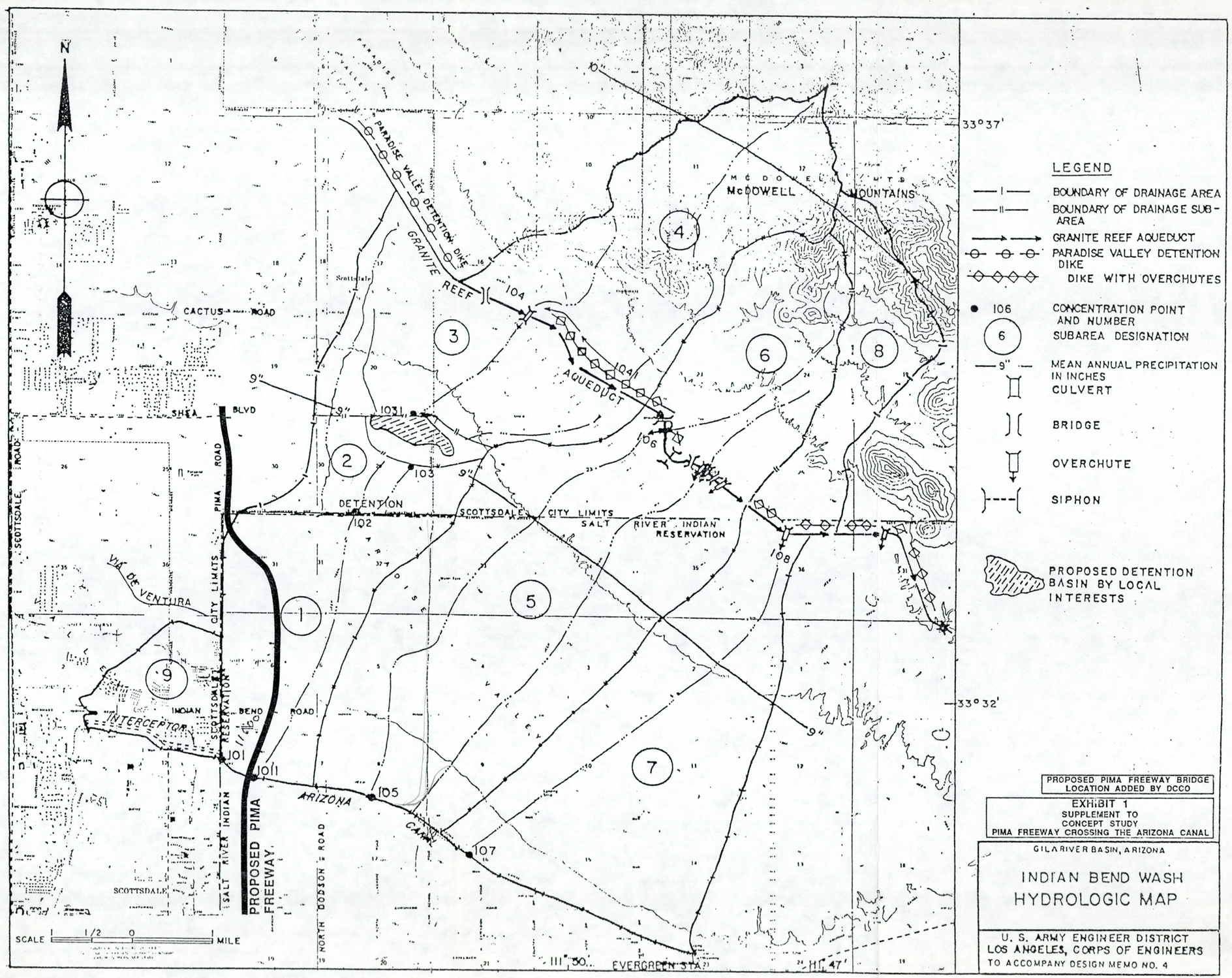
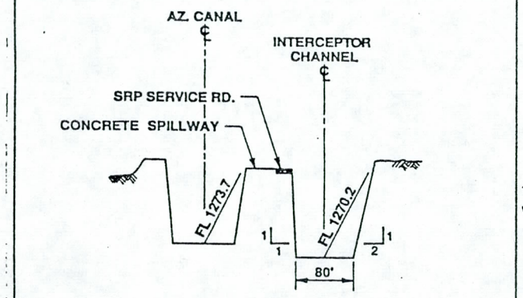
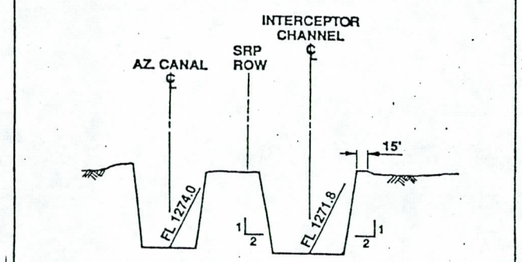

N
33°37'
33°32'
111°30'
111°47'
PARADISE VALLEY DETENTION DIKE
GRANITE REEF AQUEDUCT
CACTUS ROAD
SHEA BLVD
PIMA ROAD
DETENTION
SCOTTSDALE
CITY LIMITS
SALT RIVER INDIAN RESERVATION
McDOWELL MOUNTAINS
VIA DE VENTURA
INDIAN BEND ROAD
INTERCEPTOR
PROPOSED PIMA FREEWAY
ARIZONA CANAL
NORTH DOBSON ROAD
EVERGREEN STA
SCALE 1/2 0 MILE
1
2
3
4
5
6
7
8
9
101
102
103
104
105
106
107
108
9"
LEGEND
BOUNDARY OF DRAINAGE AREA
BOUNDARY OF DRAINAGE SUB-AREA
GRANITE REEF AQUEDUCT
PARADISE VALLEY DETENTION DIKE
DIKE WITH OVERCHUTES
CONCENTRATION POINT AND NUMBER
SUBAREA DESIGNATION
MEAN ANNUAL PRECIPITATION IN INCHES
CULVERT
BRIDGE
OVERCHUTE
SIPHON
PROPOSED DETENTION BASIN BY LOCAL INTERESTS
PROPOSED PIMA FREEWAY BRIDGE LOCATION ADDED BY DCCO
EXHIBIT 1
SUPPLEMENT TO CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL
GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
HYDROLOGIC MAP
U. S. ARMY ENGINEER DISTRICT
LOS ANGELES, CORPS OF ENGINEERS
TO ACCOMPANY DESIGN MEMO NO. 4

PLATE 3



SECTION A-A
LOOKING DOWNSTREAM



SECTION B-B
LOOKING DOWNSTREAM

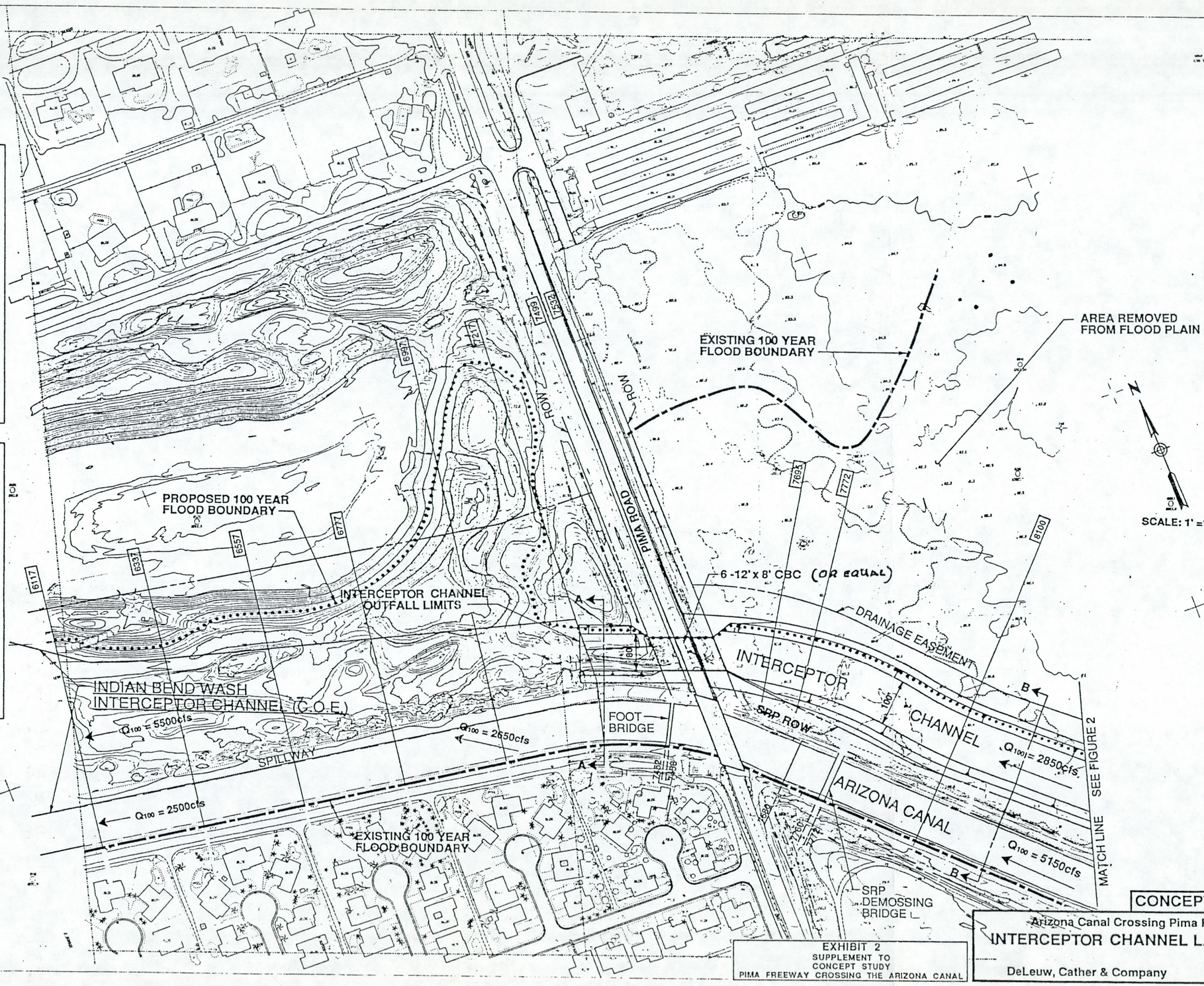


EXHIBIT 2
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

CONCEPT STUDY
Arizona Canal Crossing Pima Freeway
INTERCEPTOR CHANNEL LAYOUT
DeLeuw, Cather & Company AUG. 1990

AREA REMOVED FROM FLOOD PLAIN

EXISTING 100 YEAR FLOOD BOUNDARY

PROPOSED 100 YEAR FLOOD BOUNDARY

9600 9770 9800 9885 9900 10000 10600

11100 11200

165' 235'

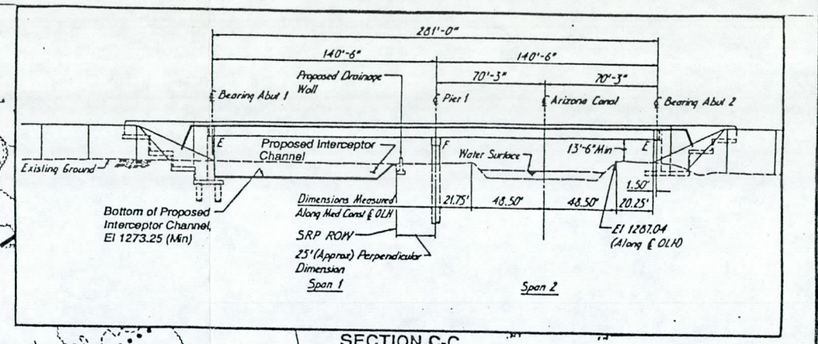
ROW ROW

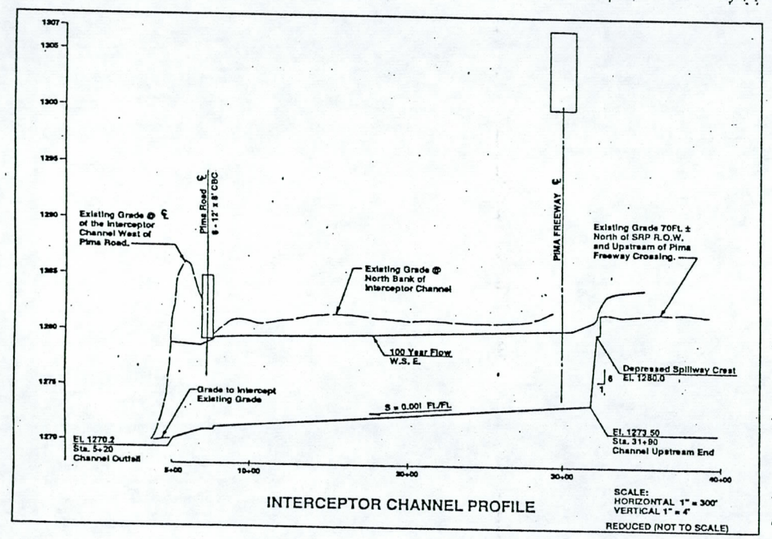
PIMA FREEWAY

Q_{100} = 12710cfs

EARTHEN CHANNEL

SECTION C-C
LOOKING UPSTREAM





SEE FIGURE 1

MATCH LINE

8600 8700 8920 9140 9360 9460

DRAINAGE EASEMENT

15'

100'

Q_{100} = 2850cfs

INTERCEPTOR CHANNEL

Q_{100} = 1750 cfs

Q_{100} = 7700cfs

SRP ROW

SPILLWAY

ARIZONA CANAL

Q_{100} = 5150cfs

C

105'

SPILLWAY

SRP ROW

DRAINAGE WALL

Q_{100} = 6250cfs

EXISTING 100 YEAR FLOOD BOUNDARY

SCALE: 1" =100'

EXHIBIT 3
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

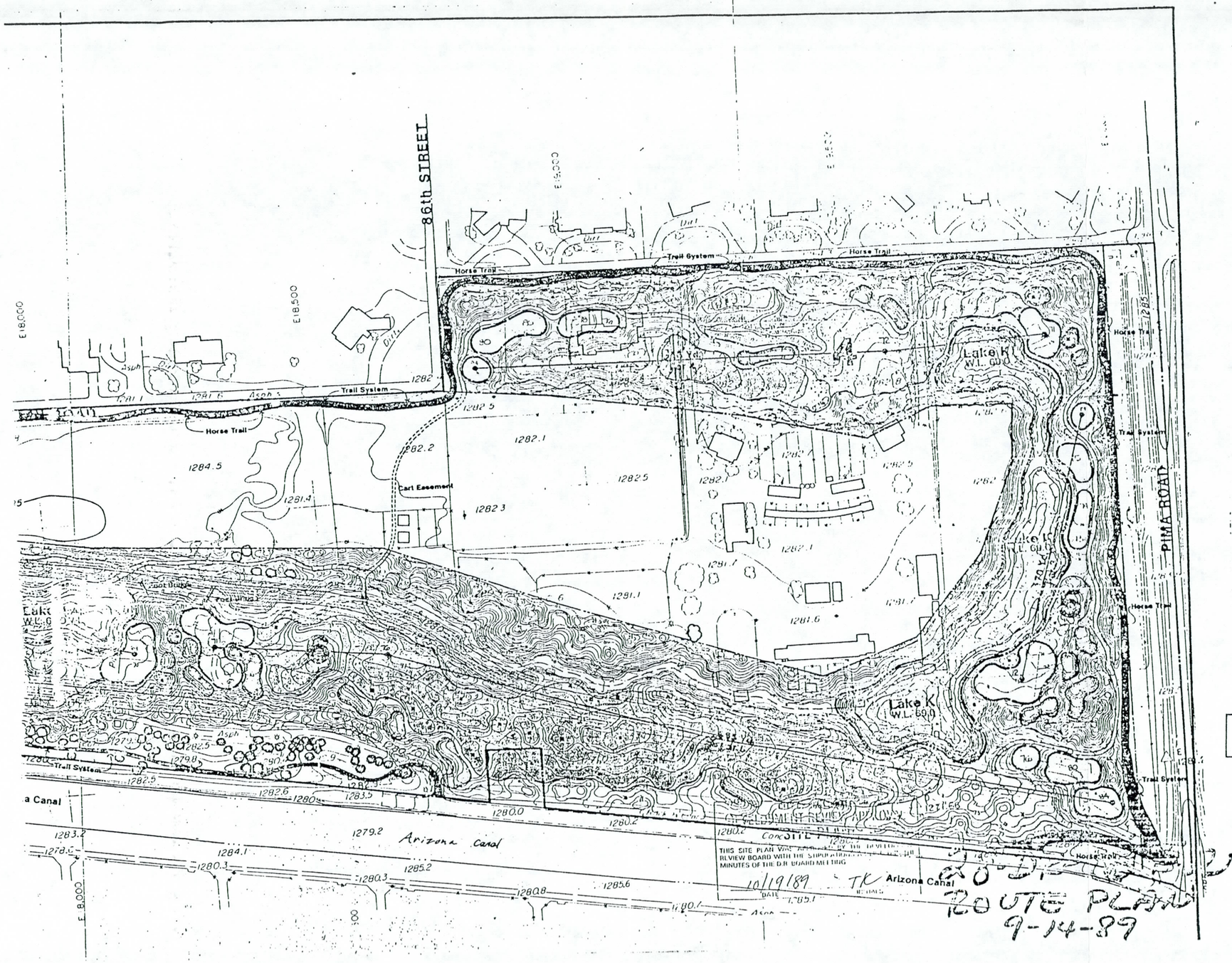
CONCEPT STUDY

Arizona Canal Crossing Pima Freeway

INTERCEPTOR CHANNEL LAYOUT

DeLeuw, Cather & Company

AUG. 1990



SCOTTSDALE LAKES GOLF COURSE
FROM THE CITY OF SCOTTSDALE

EXHIBIT 4
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

GILA RIVER BASIN, ARIZONA

INDIAN BEND WASH
INTERCEPTOR CHANNEL

INDEX TO CONTRACT DRAWINGS

DATUM IS MEAN SEA LEVEL

FILE NO.	TITLE	SHEET NO.
244 / 112	INDEX TO CONTRACT DRAWINGS	1
244 / 113	PROJECT LOCATION	2
244 / 114	FOUNDATION INVESTIGATION, STA. 74+83 TO STA. 49+41	3
244 / 115	FOUNDATION INVESTIGATION, STA. 49+41 TO STA. 3+03.36	4
244 / 116	GENERAL PLAN NO. 1, STA. 74+83 TO STA. 58+50	5
244 / 117	GENERAL PLAN NO. 2, STA. 58+50 TO STA. 43+50	6
244 / 118	GENERAL PLAN NO. 3, STA. 43+50 TO STA. 29+00	7
244 / 119	GENERAL PLAN NO. 4, STA. 29+00 TO STA. 16+00	8
244 / 120	GENERAL PLAN NO. 5, STA. 16+00 TO STA. 3+03.36	9
244 / 121	CROSS SECTIONS	10
244 / 122	SPILLWAY AND ARIZONA CANAL LINING - PLAN, PROFILE, DETAIL AND SECTIONS	11
244 / 123	SPILLWAY AND PILOT CHANNEL - SECTIONS AND DETAILS	12
244 / 124	OUTLET STRUCTURE - PLAN AND SECTIONS	13
244 / 125	PIPE GATE AND DRIVEWAY DETAILS	14
244 / 126	RECORDER HOUSE AND GAGING STATION DETAILS	15
244 / 127	ARIZONA CANAL LINING, PLAN AND PROFILE NO. 1 - STA. 83+00 TO STA. 47+00	16
244 / 128	ARIZONA CANAL LINING, PLAN AND PROFILE NO. 2 - STA. 47+00 TO STA. 10+00	17
244 / 129	ARIZONA CANAL LINING, CROSS SECTIONS	18

ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING

DRAWINGS IN THIS FOLIO HAVE BEEN REDUCED TO ONE HALF THE ORIGINAL SIZE

EXHIBIT 5
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

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

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
INDEX TO CONTRACT DRAWINGS

DESIGNED BY: JHL
DRAWN BY: D.R.V.
CHECKED BY: JJ

SUBMITTED BY: _____ APPROVED: _____ DATE: _____

SIGNATURES AFFIXED HEREON INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL DRAWINGS IN THIS SET AS INDEXED ON THIS SHEET

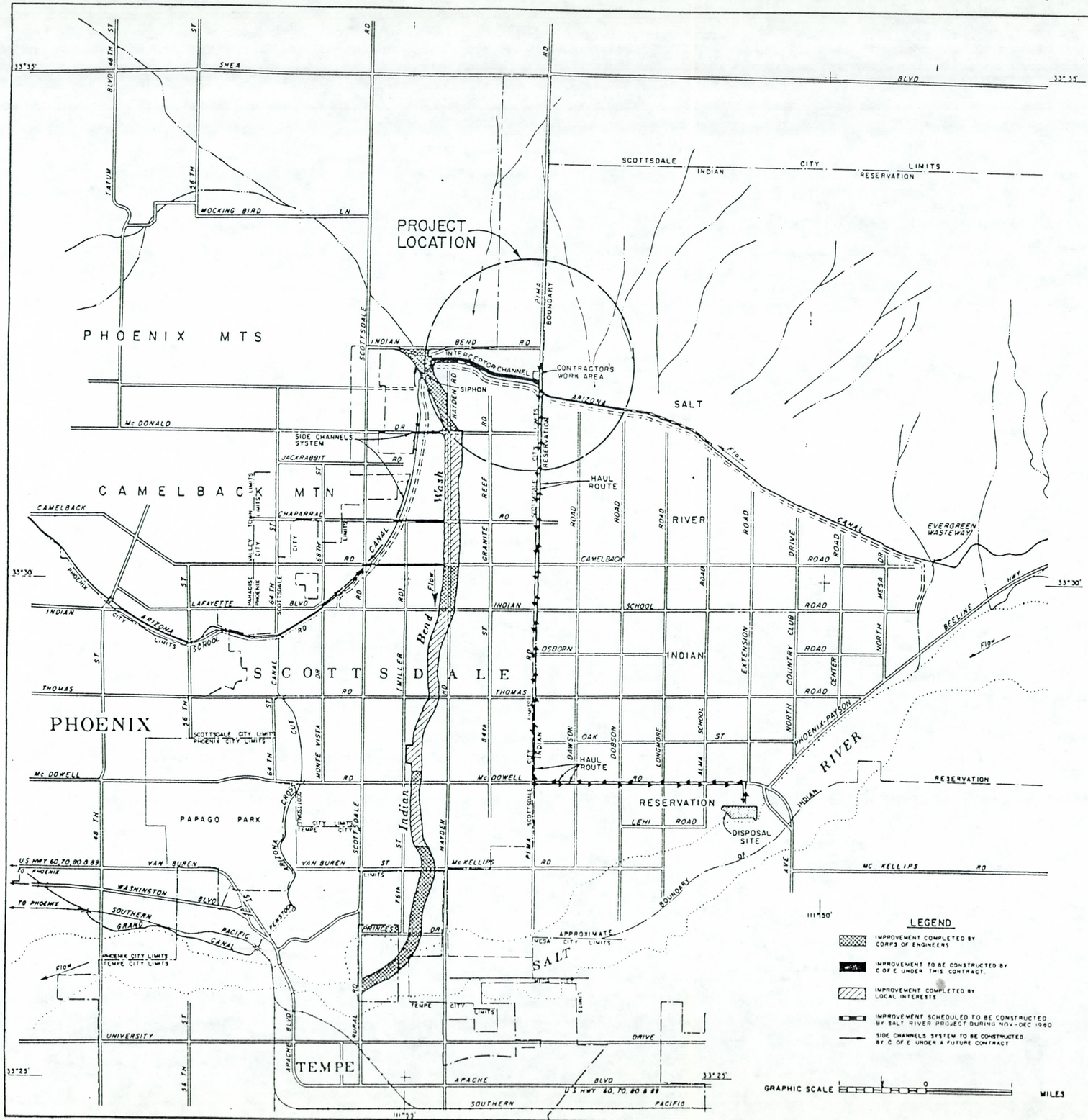
APPROVAL RECOMMENDED: _____

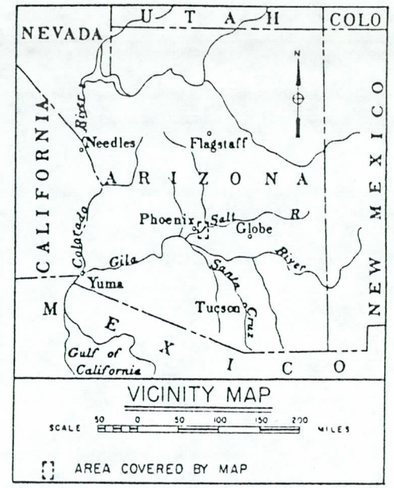
PREPARED UNDER THE DIRECTION OF:
GWYNN A. TEAGUE

SPEC. NO. DACW09-_-82-_-0052
DISTRICT FILE NO. 244/112

SHEET 1 OF 18 SHEETS

U.S. ARMY ENGINEER DISTRICT





VICINITY MAP

SCALE 50 0 50 100 150 200 MILES

AREA COVERED BY MAP

SECTION IDENTIFICATION NUMBER
NUMBER OF SHEET ON WHICH SECTION IS DRAWN
NUMBER OF SHEET ON WHICH SECTION IS TAKEN
SYMBOL WHERE SECTION IS TAKEN

SECTION 3/4|13

SUBTITLE FOR SECTION DRAWING

NUMBER OF SHEET ON WHICH CONDITION IS SHOWN — 75/6|8 — DETAIL IDENTIFICATION NUMBER; NUMBER OF SHEET ON WHICH DETAIL OF THE CONDITION IS DRAWN

SYMBOL FOR LOCATING CONDITION FOR WHICH THERE IS A DETAIL

DETAIL 75/6|8

SUBTITLE FOR DETAIL DRAWING

LEGEND

- IMPROVEMENT COMPLETED BY CORPS OF ENGINEERS
- IMPROVEMENT TO BE CONSTRUCTED BY C OF E UNDER THIS CONTRACT
- IMPROVEMENT COMPLETED BY LOCAL INTERESTS
- IMPROVEMENT SCHEDULED TO BE CONSTRUCTED BY SALT RIVER PROJECT DURING NOV-DEC 1980
- SIDE CHANNELS SYSTEM TO BE CONSTRUCTED BY C OF E UNDER A FUTURE CONTRACT

GRAPHIC SCALE 1 0 1 MILES

EXHIBIT 6
SUPPLEMENT TO CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

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

DESIGNED BY: [illegible]
DRAWN BY: D.R.V.
CHECKED BY: [illegible]

GILA RIVER BASIN ARIZONA

INDIAN BEND WASH
INTERCEPTOR CHANNEL
PROJECT LOCATION

SUBMITTED BY: Walter Rabitzsch, Chief, Design Branch
DATE APPROVED: Nov '80
SPEC. NO. DACW09-80-B-0065
DISTRICT FILE NO. 244/113
SHEET 2 OF 18 SHEETS

TT 74-101

ELEV. 1298		WC	LL	PI	-4	-200	
		9	26	12	100	65	SANDY CLAY, brown to light brown, becomes cemented below 8 feet, density at 5 feet = 100.6 p c f
	CL	11	36	21	100	68	
10.0'		14	40	18	86	64	

TT 74-102

ELEV. 1282		WC	LL	PI	-4	-200	
		12	33	16	100	70	SANDY CLAY, brown to light brown, well cemented below 2 feet, density at 4 feet = 98.3 p c f
	CL	8	38	16	96	67	
6.0'							
8.0'	SC	11	42	17	80	46	GRAVELLY CLAYEY SAND, light brown, well cemented

SOIL LOGS

VERT SCALE 5 0 5 10 FEET

LEGEND

TT 74-108 / TH 74-1	LOCATION AND NUMBER OF TEST TRENCH
●	LOCATION AND NUMBER OF TEST HOLE
M C	FIELD MOISTURE CONTENT IN PERCENT OF DRY WEIGHT.
L L	LIQUID LIMIT.
P I	PLASTICITY INDEX (LIQUID LIMIT MINUS PLASTIC LIMIT).
N P	NONPLASTIC
-4	PERCENT OF MATERIAL BY WEIGHT PASSING NO. 4 SIEVE
-200	PERCENT OF MATERIAL BY WEIGHT PASSING NO. 200 SIEVE

GENERAL NOTES

1 FOUNDATION INVESTIGATION DRAWINGS ARE TO BE USED FOR LOCATION AND LOGS OF EXPLORATIONS ONLY. SEE OTHER SHEETS FOR DETAILS OF PROPOSED CONSTRUCTION

2 FIELD EXPLORATION WAS CONDUCTED DURING MARCH 1974. TEST TRENCHES WERE EXCAVATED BY A BACKHOE USING A 30-INCH BUCKET

3 GROUND WATER WAS NOT ENCOUNTERED

4 DENSITY DATA, INDICATED ON THE LOGS, ARE IN-PLACE DRY DENSITIES TAKEN IN ACCORDANCE WITH ASTM METHOD D1556-64 (DENSITY OF SOIL IN-PLACE BY THE SAND-CONE METHOD)

5 ALL ELEVATIONS SHOWN ON LOGS ARE FROM TOPOGRAPHY TAKEN DURING 1974

6 FOR LOGS OF TEST TRENCHES SEE SHEETS 3 AND 4

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES
COARSE GRAINED SOILS More than half of material is larger than no. 200 sieve size.	GRAVELS More than half of coarse fraction is larger than no. 4 sieve size.	Clean gravels	G W	Well-graded gravels, gravel-sand mixtures, little or no fines.
			G P	Poorly-graded gravels, gravel-sand mixtures, little or no fines.
		Gravels with fines	G M	Silty gravels, gravel-sand-silt mixtures.
			G C	Clayey gravels, gravel-sand-clay mixtures.
	SANDS More than half of coarse fraction is smaller than no. 4 sieve size.	Clean sands	S W	Well-graded sands, gravelly sands, little or no fines.
			S P	Poorly-graded sands, gravelly sands, little or no fines.
		Sands with fines	S M	Silty sands, sand-silt mixtures.
			S C	Clayey sands, sand-clay mixtures.
FINE GRAINED SOILS More than half of material is smaller than no. 200 sieve size.	SILTS AND CLAYS	Low liquid limit	M L	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts, with slight plasticity.
			C L	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			O L	Organic silts and organic silty clays of low plasticity.
		High liquid limit	M H	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			C H	Inorganic clays of high plasticity, fat clays.
			O H	Organic clays of medium to high plasticity, organic silts.
Highly organic soils			P t	Peat and other highly organic soils

NOTES:

1. Boundary Classification: Soils possessing characteristics of two groups are designated by combinations of group symbols. For example, GW-GC, well-graded gravel-sand mixture with clay binder.

2. All sieve sizes on this chart are U. S. Standard.

3. The terms "silt" and "clay" are used respectively to distinguish materials exhibiting lower plasticity from those with higher plasticity. The minus no. 200 sieve material is silt if the liquid limit and plasticity index plot below the "A" line on the plasticity chart (Table VI, Military Standard 6198), and is clay if the liquid limit and plasticity index plot above the "A" line on the chart.

4. For a complete description of the Unified Soil Classification System, see "Military Standard 6198" dated 20 March 1976

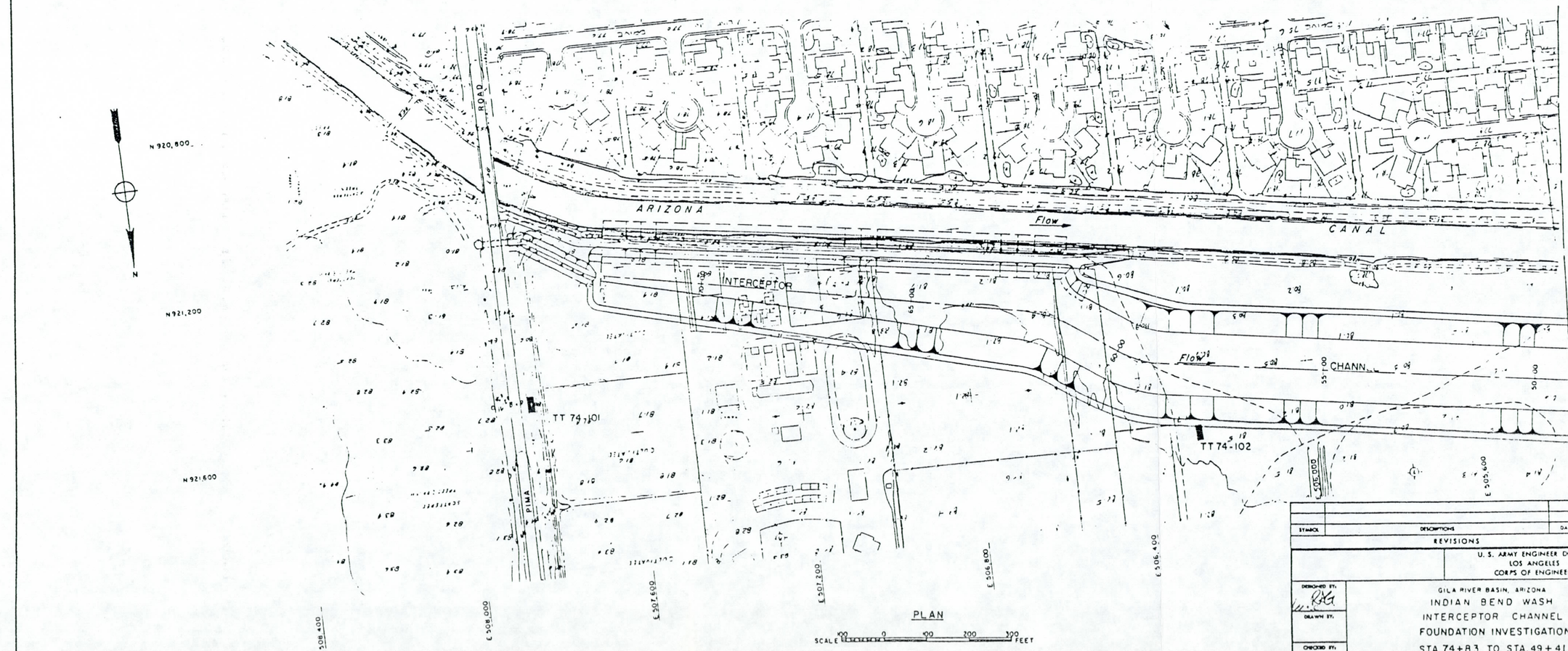


EXHIBIT 7
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

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

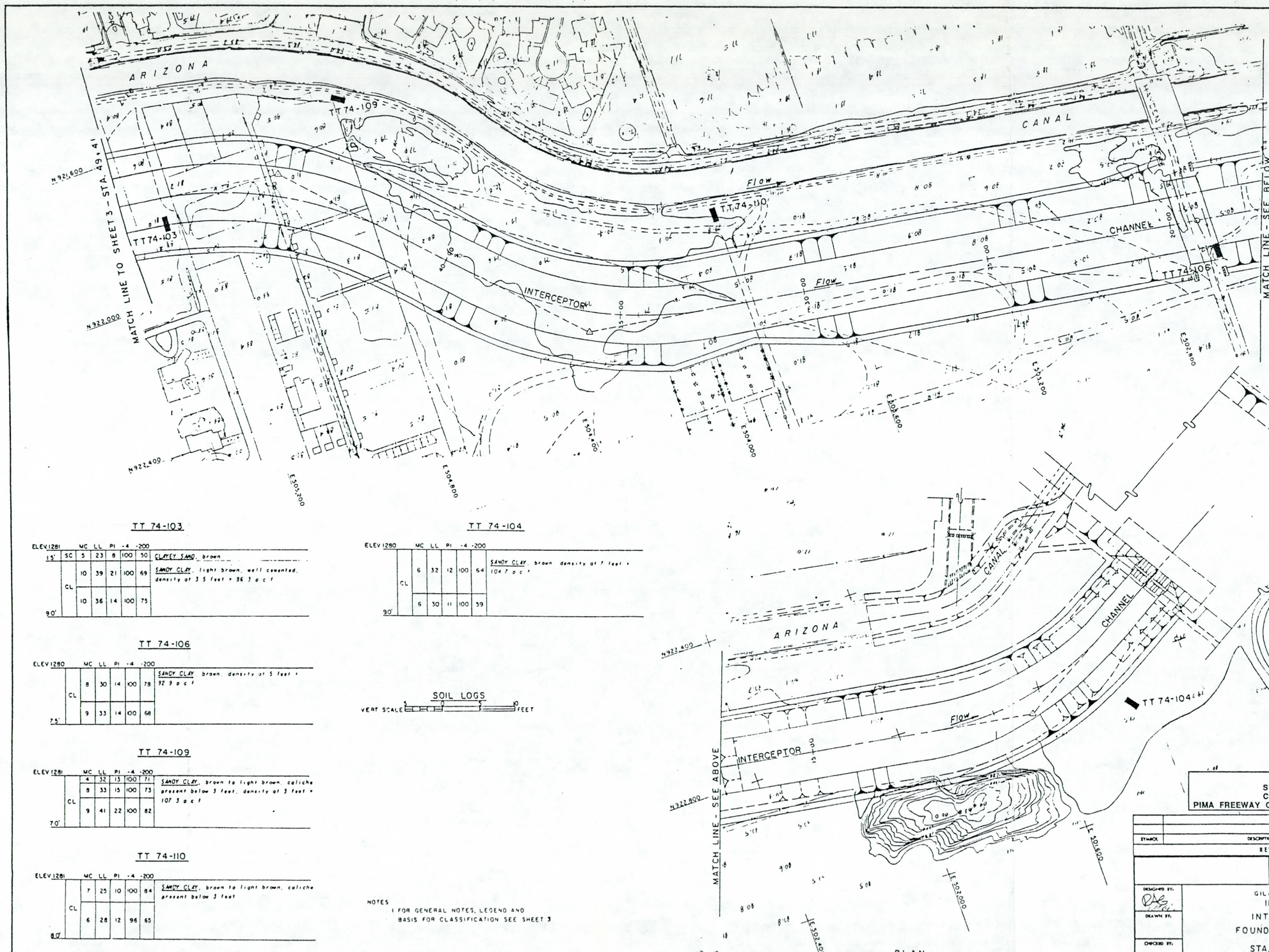
DESIGNED BY: RAG
DRAWN BY:
CHECKED BY:

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
FOUNDATION INVESTIGATION
STA. 74+83 TO STA. 49+41

SUBMITTED BY: CHIEF, ENGR. BRANCH
DATE APPROVED: ACTING CHIEF, ENGINEERING DIVISION

SPEC. NO. DACW09-73-B-0221
DISTRICT FILE NO. 244/114

SHEET 3 OF 18 SHEETS



TT 74-103

ELEV 1281		MC	LL	PI	-4	-200	
13'	SC	5	23	8	100	30	CLAYEY SAND, brown
	CL	10	39	21	100	69	SANDY CLAY, light brown, well cemented, density at 3.5 feet = 96.3 p.c.f.
9.0'	CL	10	36	14	100	75	

TT 74-104

ELEV 1280		MC	LL	PI	-4	-200	
	CL	6	32	12	100	64	SANDY CLAY, brown, density at 7 feet = 104.7 p.c.f.
9.0'	CL	6	30	11	100	59	

TT 74-106

ELEV 1280		MC	LL	PI	-4	-200	
	CL	8	30	14	100	78	SANDY CLAY, brown, density at 5 feet = 92.9 p.c.f.
7.5'	CL	9	33	14	100	68	

TT 74-109

ELEV 1281		MC	LL	PI	-4	-200	
		4	32	13	100	71	SANDY CLAY, brown to light brown, caliche present below 3 feet, density at 3 feet = 107.3 p.c.f.
	CL	8	33	15	100	73	
7.0'	CL	9	41	22	100	82	

TT 74-110

ELEV 1281		MC	LL	PI	-4	-200	
		7	25	10	100	84	SANDY CLAY, brown to light brown, caliche present below 3 feet
	CL	6	28	12	96	65	
8.0'							

SOIL LOGS
VERT SCALE 5 0 5 10 FEET

NOTES
1 FOR GENERAL NOTES, LEGEND AND BASIS FOR CLASSIFICATION SEE SHEET 3

EXHIBIT 8
SUPPLEMENT TO CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROV.
	REVISIONS		

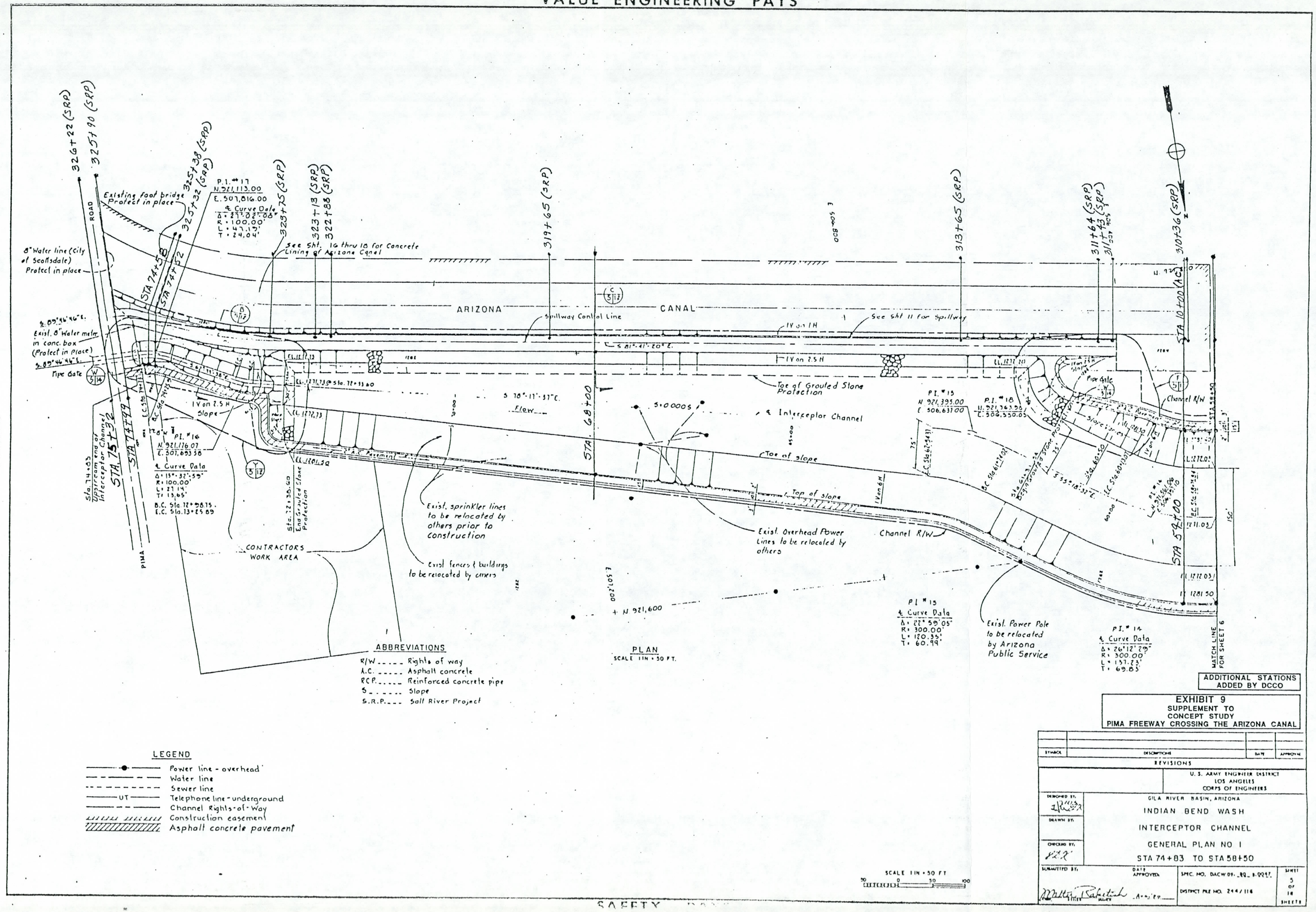
U. S. ARMY ENGINEER DISTRICT
LOS ANGELES
CORPS OF ENGINEERS

DESIGNED BY:
DRAWN BY:
CHECKED BY:

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
FOUNDATION INVESTIGATION
STA. 49+41 TO STA. 3+03.36

SUBMITTED BY: Chief, Eng. Branch
DATE APPROVED: Acting
SPEC. NO. DACW09-[illegible]-0047
DISTRICT FILE NO. 244/115
SHEET 4 OF 18 SHEET

ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING



ABBREVIATIONS

R/W _____ Rights of way
A.C. _____ Asphalt concrete
RCP _____ Reinforced concrete pipe
S _____ Slope
S.R.P. ____ Salt River Project

PLAN
SCALE 1 IN = 50 FT.

LEGEND

- Power line - overhead
- Water line
- Sewer line
- UT — Telephone line - underground
- Channel Rights-of-Way
- Construction easement
- Asphalt concrete pavement

SCALE 1 IN = 50 FT
50 0 50 100

ADDITIONAL STATIONS ADDED BY DCCO

EXHIBIT 9
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

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

DESIGNED BY:
DRAWN BY:
CHECKED BY:

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
GENERAL PLAN NO 1
STA 74+83 TO STA 58+50

SUBMITTED BY: Walter Sabatich, Chief
DATE APPROVED: A-E-S-E-D
SPEC. NO. DACW09-_80_-B-0017
DISTRICT FILE NO. 244/116
SHEET 5 OF 18 SHEETS

ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING

307+65 (SRP)

301+65 (SRP)

295+65 (SRP)

ARIZONA CANAL

Abandoned Telephone Line (Mountain Bell) to be removed within limits of required work.

Adjust MH to grade & install water tight frame & cover

Existing fences to be removed by others prior to construction

Existing 1" Water riser & hose bib to be removed by others prior construction

Recorder house, 2 / 6 / 15

Channel R/W

Top of slope

Toe of slope

2:1 Slope

3" A.C. Pavement

EL. 1281.10

EL. 1277.03

EL. 1272.03

EL. 1281.50

EL. 1281.00

Sta 58+50

Sta 55+00

Sta 53+00

Sta 48+00

Sta 56+02

Sta 50+50

Sta 45+50

Sta 43+00

℄ Interceptor Channel

Weir, 3 / 6 / 15

Flow

S 81° 31' 01" E.

Exist. 8" V.C.P. sewer line (City of Scottsdale)

Exist MH (Typ)

Exist Tank

PI #13
N 921,176.00
E 504,956.00

PI #13
℄ Curve Data
Δ = 57°-29'-00"
R = 1,000.00'
L = 655.04'
T = 338.64'

MATCH LINE FOR SHEET 5

MATCH LINE FOR SHEET 7

N

SCALE: 1 IN = 50 FT

0 50 100

Compacted Fill

Approx. exist. ground surface

El. 1280.5±

Excavation Channel

4" Topsoil

El. 1274.0±

El. 1271.51

El. 1270.50

El. 1271.50

Exist. 8" Sewer Protect in place

Conc. Pad

6" Premolded Pad

El. 1267.35

00' 00'

Concrete protection for 8" V.C.P. Sewer line

SECTION A
NOT TO SCALE
A / 6 / 6

PLAN
SCALE: 1 IN = 50 FT

Exist. grade line

Channel invert

0" to 12" Backfill

10" Min. A.B.

#6 @ 11'-6" @ 6" C.T.S.
6" Premolded Pad
4'-9"

#5 Cont @ 12" C.T.S.
2'-0" Min. Laps
8" I.D. V.C.P.
4'-5"

1'-3" 1'-3"

12'-0"

1'-4"

NOTE: Place concrete to excavation line or form to dimensions indicated

SECTION B
NOT TO SCALE
B / 6 / 6

ADDITIONAL STATIONS ADDED BY DCCO

EXHIBIT 10
SUPPLEMENT TO CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

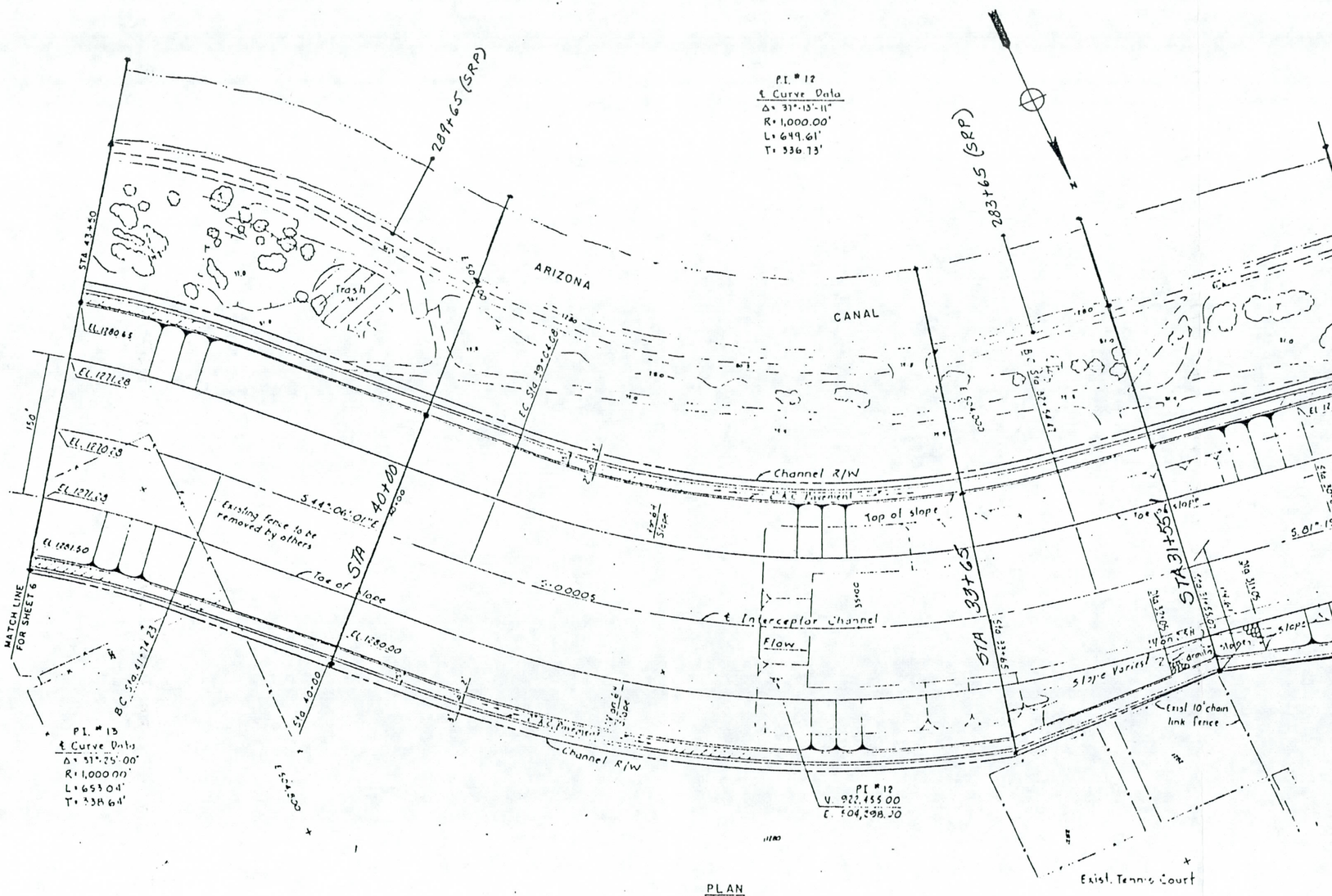
U. S. ARMY ENGINEER DISTRICT
LOS ANGELES
CORPS OF ENGINEERS

DESIGNED BY: HLR
DRAWN BY: D.R.V.
CHECKED BY: WK

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
GENERAL PLAN NO. 2
STA 58+50 TO STA 43+50

SUBMITTED BY: Walter P. Rudolph, Asst. Div.
DATE APPROVED:
SPEC. NO. DACW09-80-B-0041
DISTRICT FILE NO. 244/117
SHEET 6 OF 18 SHEETS

VALUE ENGINEERING PAYS



PLAN
SCALE 1 IN = 50 FT

ADDITIONAL STATIONS ADDED BY DCCO

EXHIBIT 11
SUPPLEMENT TO CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

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

DESIGNED BY: Hughes
DRAWN BY:
CHECKED BY: RRT

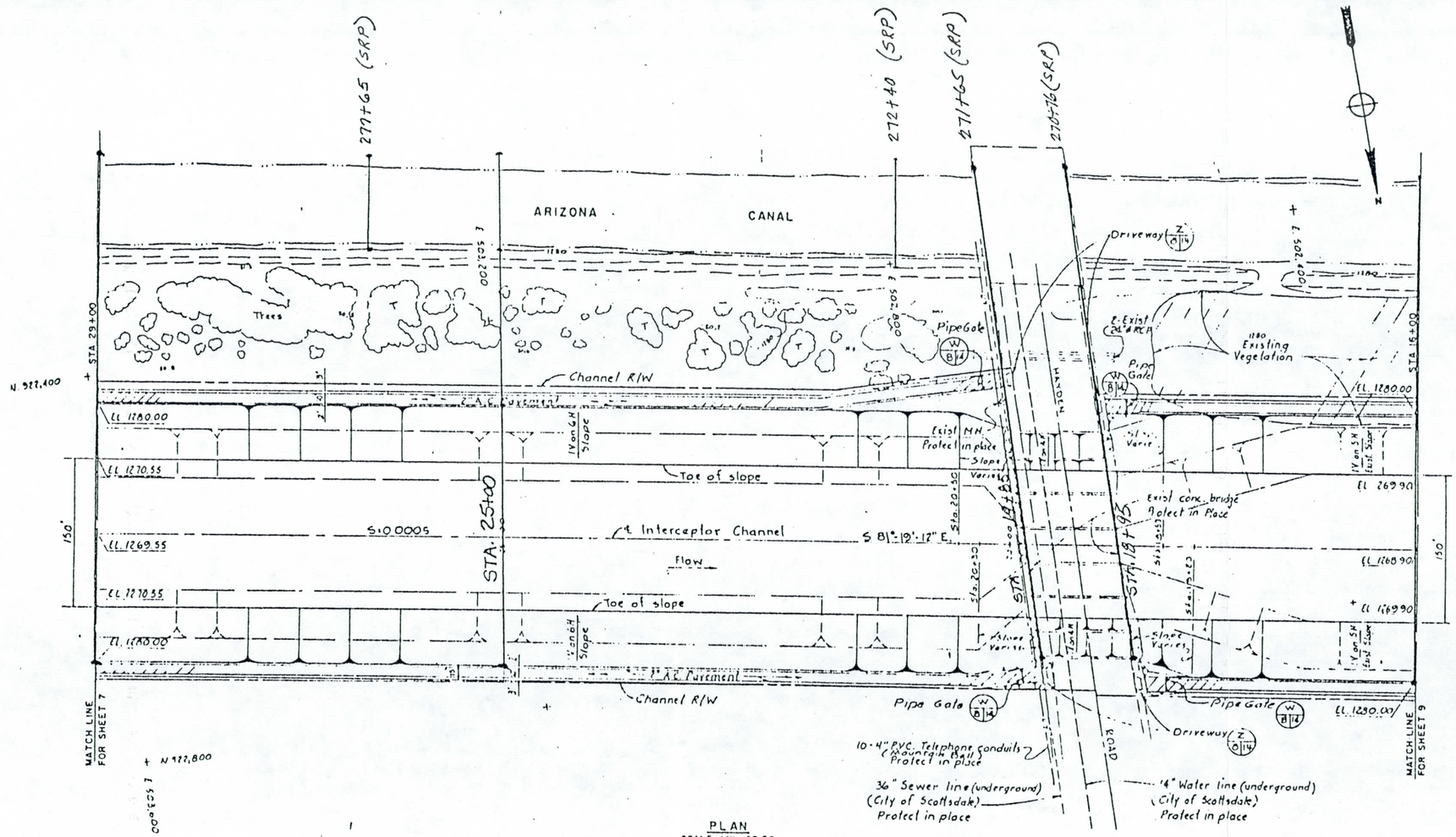
GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
GENERAL PLAN NO 3
STA 43+50 TO STA 29+00

SUBMITTED BY: Walter Rabitsch — DATE APPROVED: AUG '80
SPEC. NO. DACW09-80-B-0001
DISTRICT FILE NO. 244/118
SHEET 7 OF 18 SHEETS

ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING

SAFETY PAYS

ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING



PLAN
SCALE 1 IN = 50 FT.

SCALE 1 IN = 50 FT.
50 0 50 100

ADDITIONAL STATIONS ADDED BY DCCO

EXHIBIT 12
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

BY/MADE	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

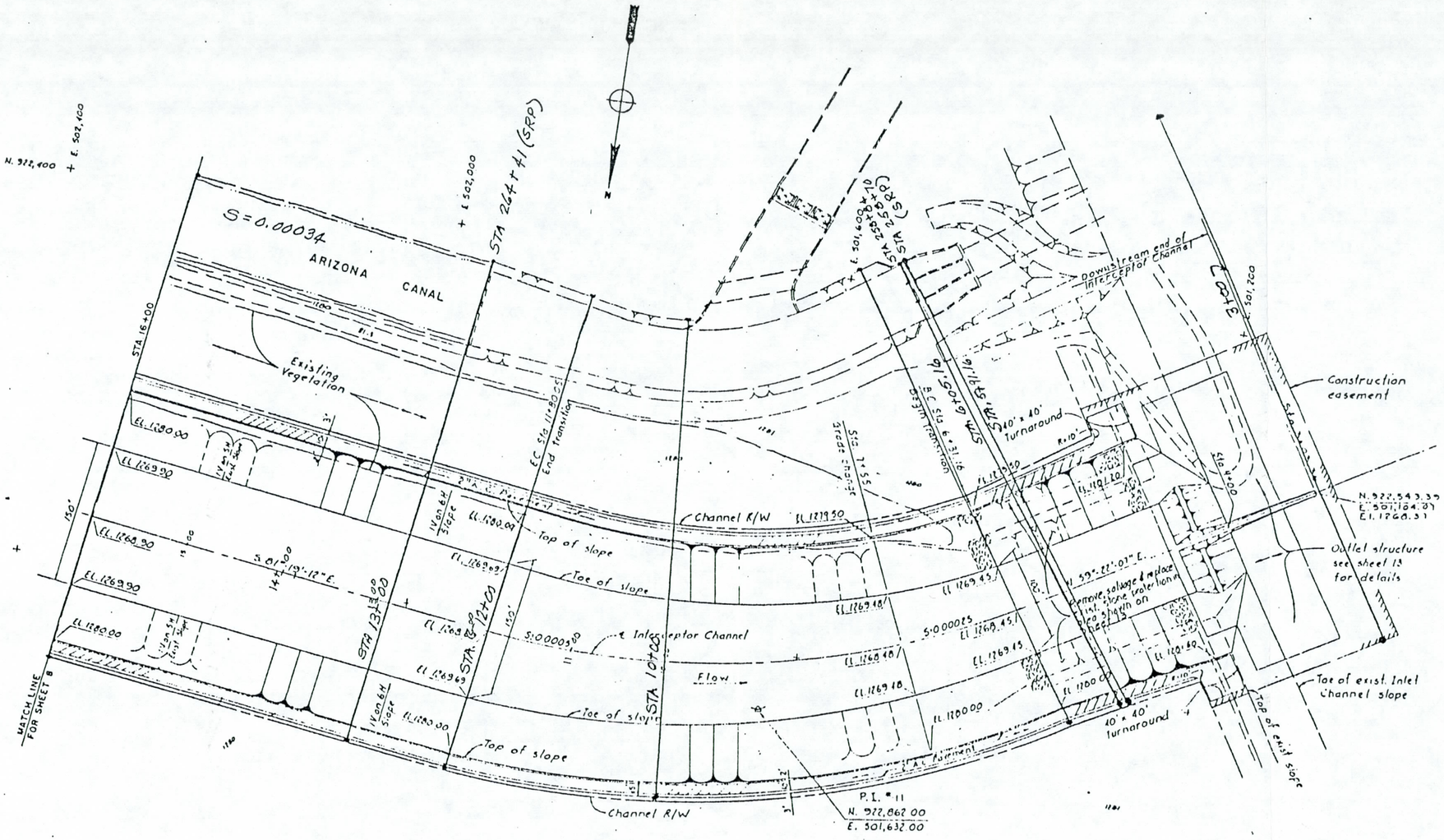
U. S. ARMY ENGINEER DISTRICT
LOS ANGELES
CORPS OF ENGINEERS

DESIGNED BY: HL
DRAWN BY:
CHECKED BY: RJK

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
GENERAL PLAN NO. 4
STA 29+00 TO STA 16+00

SUBMITTED BY: Walter Rabitsch
DATE APPROVED: Aug '80
SPEC. NO. DACW09-80-B-0051
DISTRICT FILE NO. 244/119
SHEET 8 OF 18 SHEETS

ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING



PLAN
SCALE 1 IN = 50 FT

P.I. # 11
℄ Curve Data
Δ = 39°-18'-41"
R = 800.00'
L = 548.69'
T = 285.74'

SCALE 1 IN = 50 FT
50 0 50 100

ADDITIONAL STATIONS ADDED BY DCCO

EXHIBIT 13
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

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

DESIGNED BY:
DRAWN BY:
CHECKED BY: EJK

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
GENERAL PLAN NO. 5
STA. 16+00 TO STA. 3+03.36

SUBMITTED BY: DATE APPROVED: Aug 1980

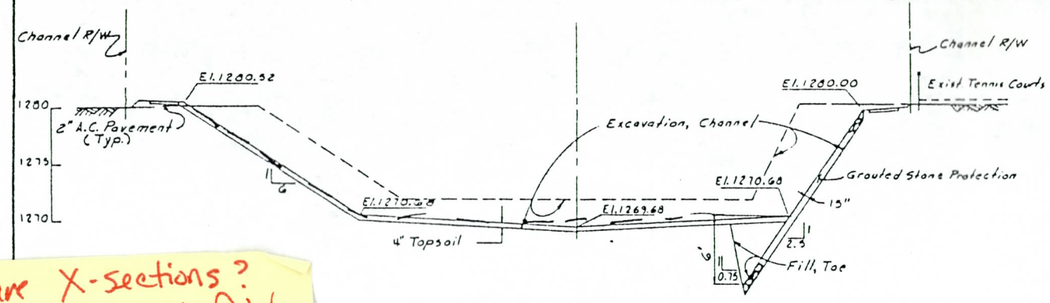
SPEC. NO. DACW09-80-B-0047
DISTRICT FILE NO. 244/120

SHEET 9 OF 18 SHEETS

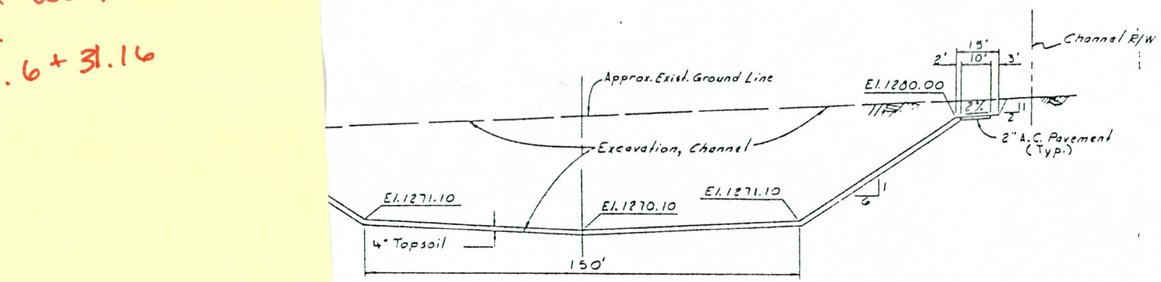
SAFETY PAYS

VALUE ENGINEERING PAYS

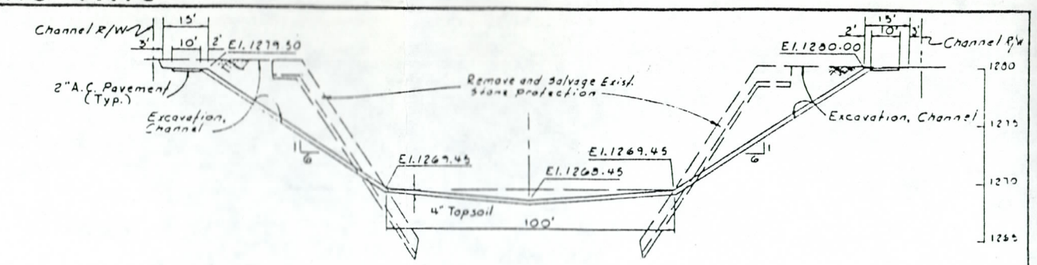
Where are X-sections?
do we want Bank Protection moved.
Stat. 6+31.16



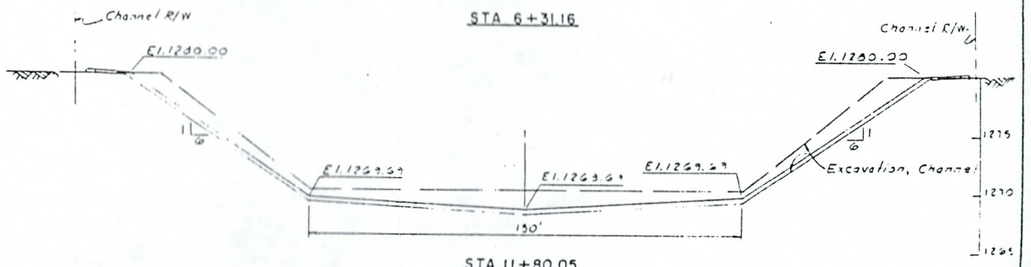
STA. 31+55.07



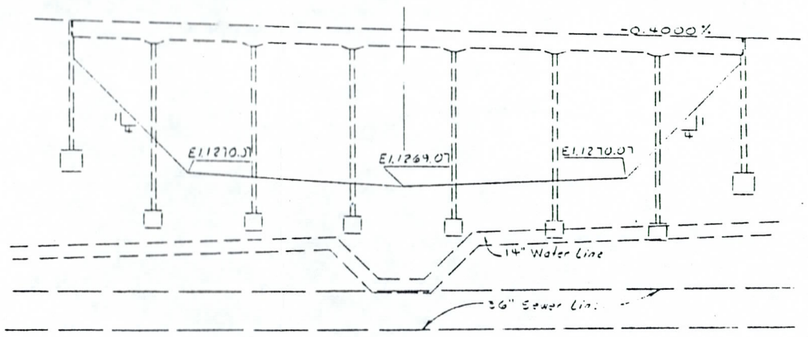
STA. 40+00



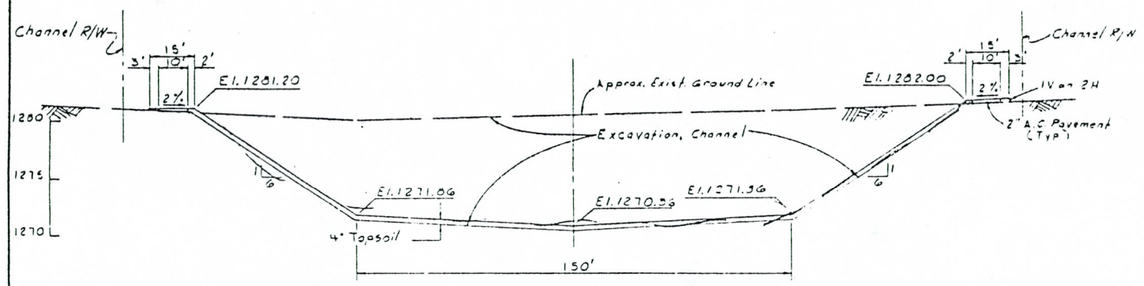
STA. 6+31.16



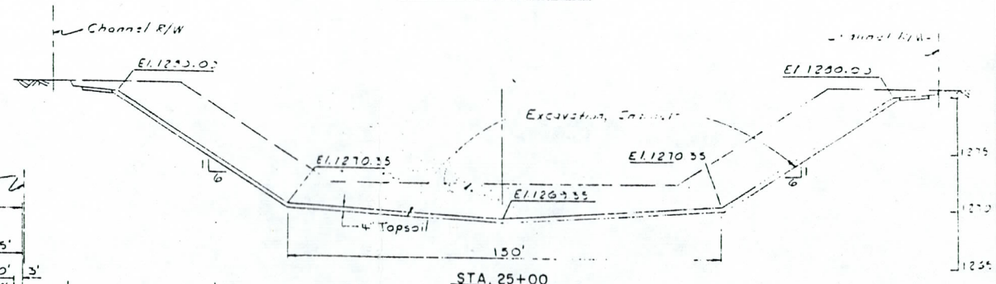
STA. 11+80.05



HAYDEN ROAD BRIDGE



STA. 55+00



STA. 25+00

STA. 65+00

SCALE: 1 IN = 5 FT.

SCALE: 1 IN = 20 FT.

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
REVISIONS			

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

DESIGNED BY:
DRAWN BY:
CHECKED BY: EKK

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
CROSS SECTIONS

EXHIBIT 14
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SUBMITTED BY:
DATE APPROVED: AUG. '80

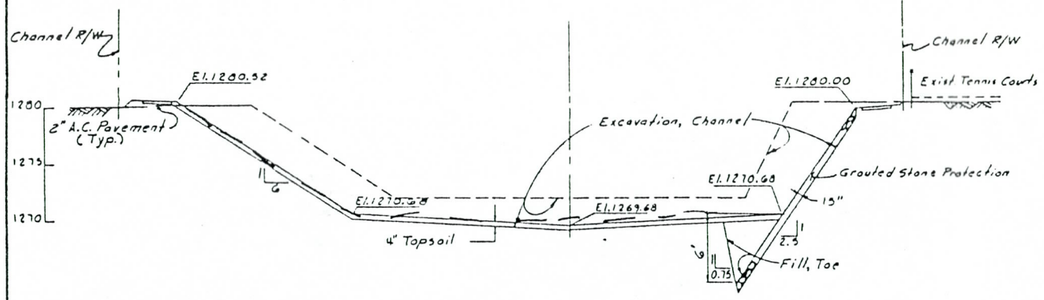
SPEC. NO. DACW09-80-B-0047
DISTRICT FILE NO. 244/121

SHEET 10 OF 19 SHEETS

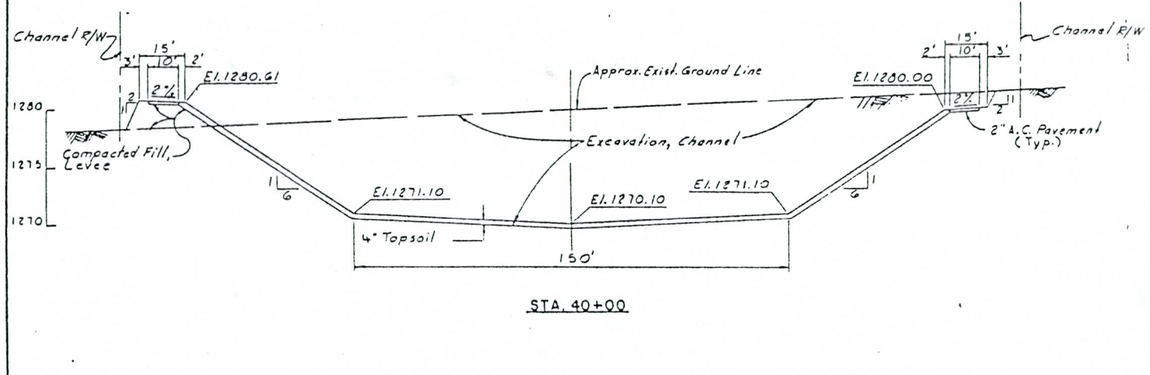
ENVIRONMENTAL ENHANCEMENT THRU ENGINEERI

SAFETY PAYS

ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING



STA. 31+55.07



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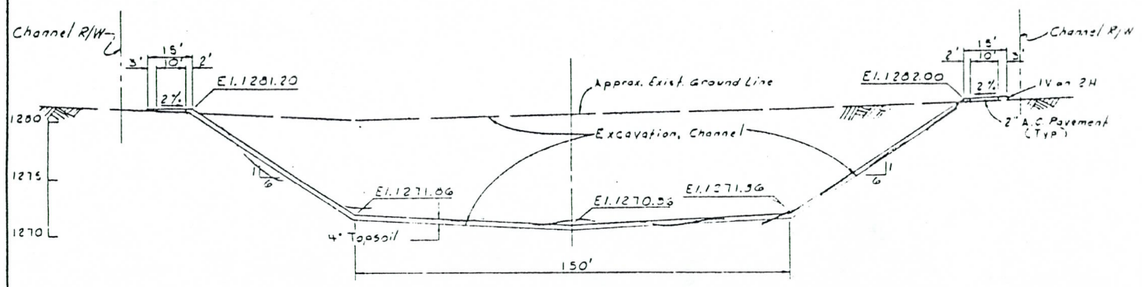
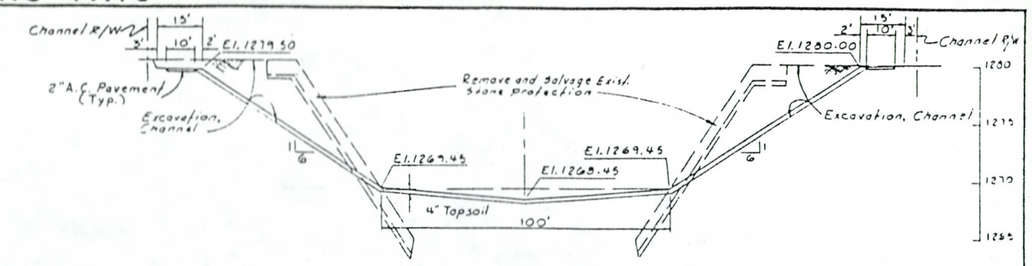
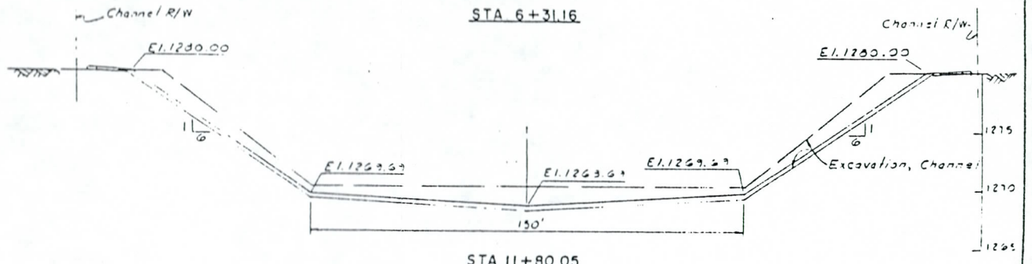


STA. 55+00

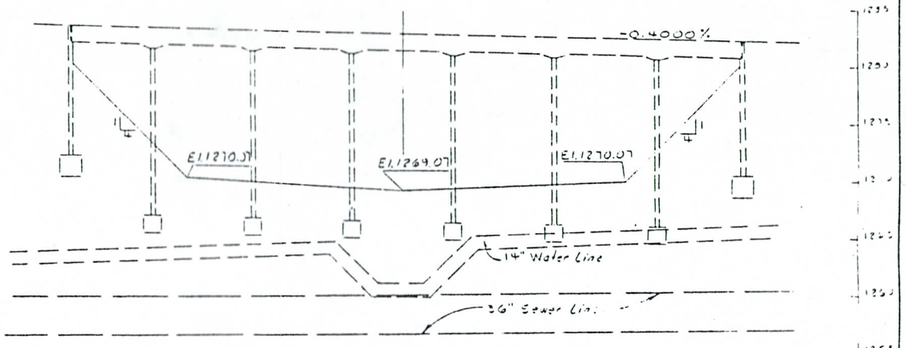
STA. 65+00



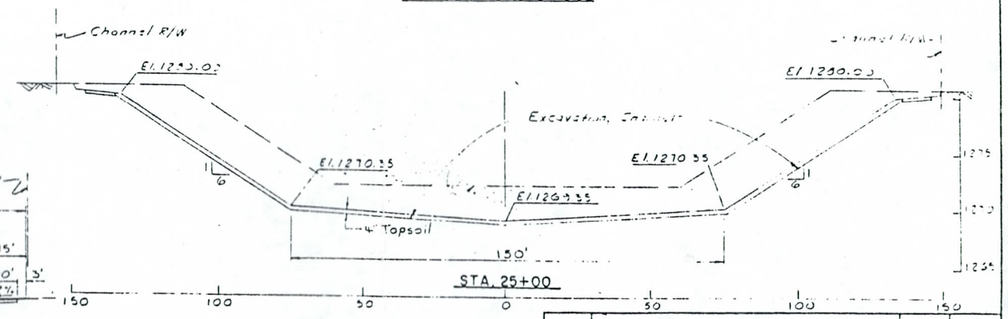
STA 6+31.16



STA. 11+80.05



HAYDEN ROAD BRIDGE



STA. 25+00

STA/NO.	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

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

DESIGNED BY: [illegible]
DRAWN BY:
CHECKED BY: EXX

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
CROSS SECTIONS

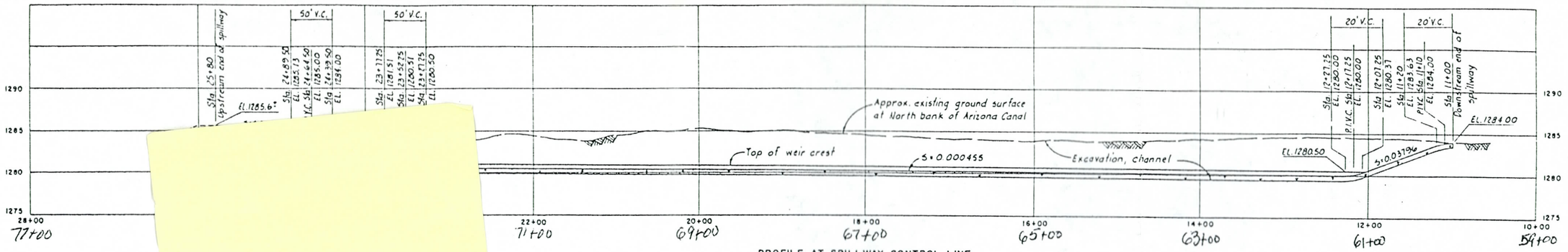
SCALE: 1 IN = 5 FT.
SCALE: 1 IN = 20 FT.

EXHIBIT 14
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SUBMITTED BY: [illegible]
DATE APPROVED: AUG '80
SPEC. NO. DACW09-80-B-0047
DISTRICT FILE NO. 244/121
SHEET 10 OF 19 SHEETS

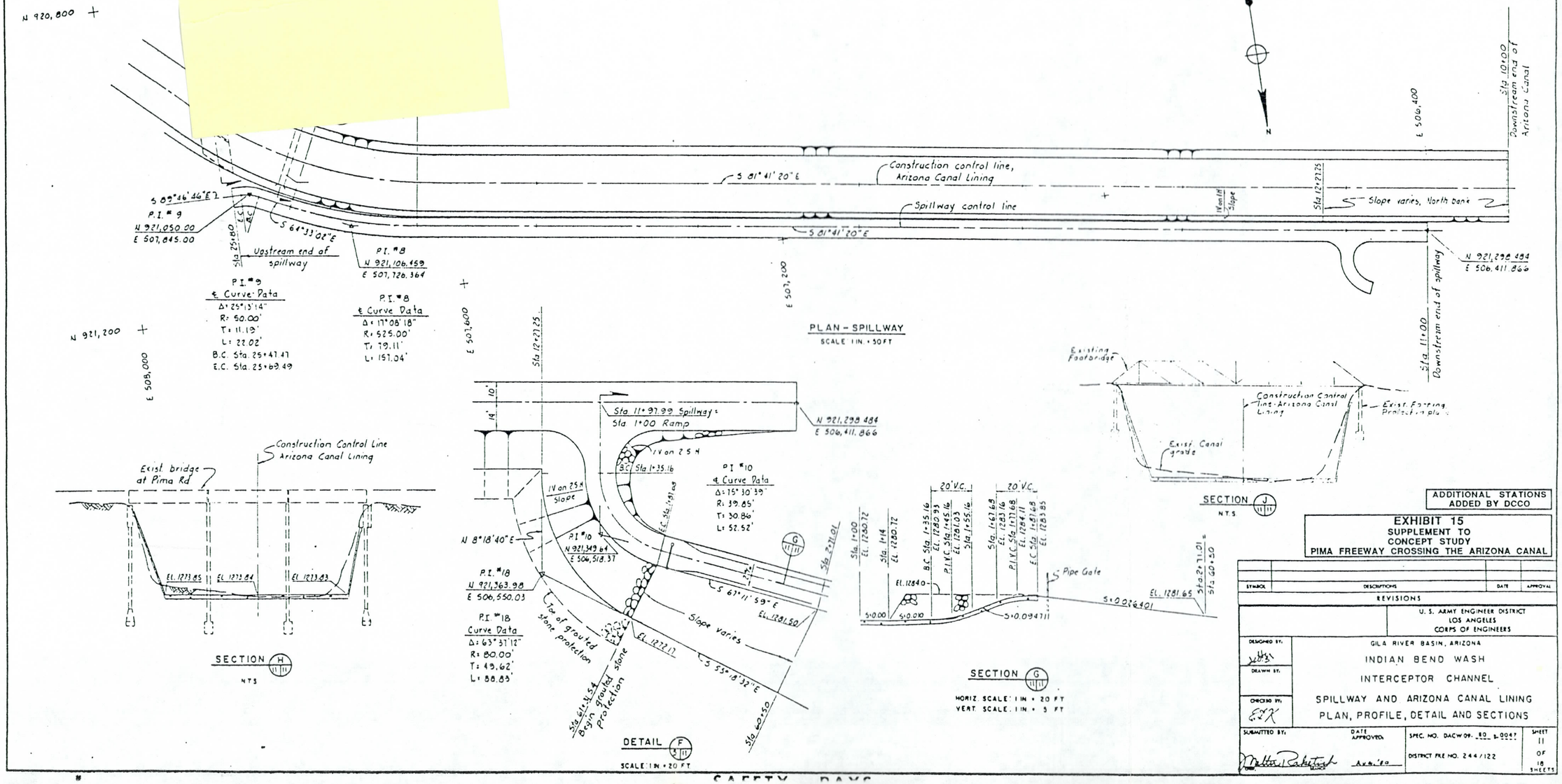
ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING

Excavated Channel



PROFILE AT SPILLWAY CONTROL LINE

HORIZ. SCALE: 1 IN. = 50 FT
VERT. SCALE: 1 IN. = 5 FT



PLAN – SPILLWAY

SCALE 1 IN. = 50 FT

SECTION H

N.T.S.

DETAIL F

SCALE: 1 IN. = 20 FT

SECTION G

HORIZ. SCALE: 1 IN. = 20 FT
VERT. SCALE: 1 IN. = 5 FT

SECTION J

N.T.S.

ADDITIONAL STATIONS ADDED BY DCCO

EXHIBIT 15
SUPPLEMENT TO CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

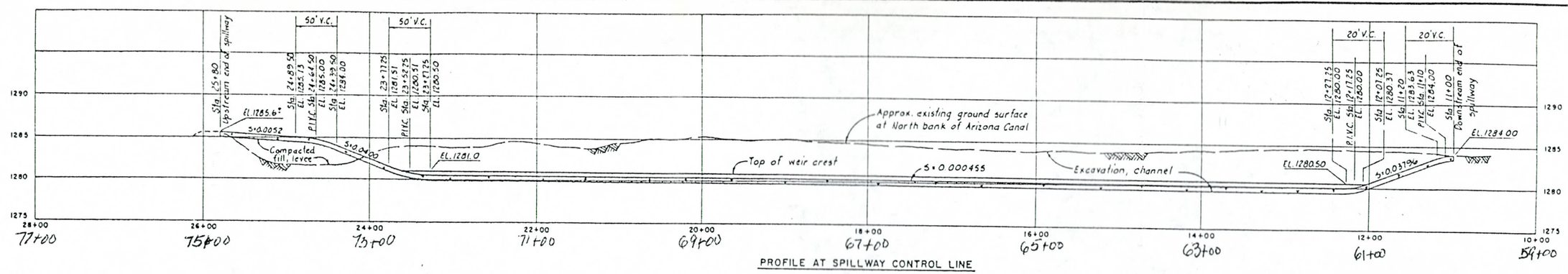
U. S. ARMY ENGINEER DISTRICT
LOS ANGELES
CORPS OF ENGINEERS

DESIGNED BY:
DRAWN BY:
CHECKED BY:

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
SPILLWAY AND ARIZONA CANAL LINING
PLAN, PROFILE, DETAIL AND SECTIONS

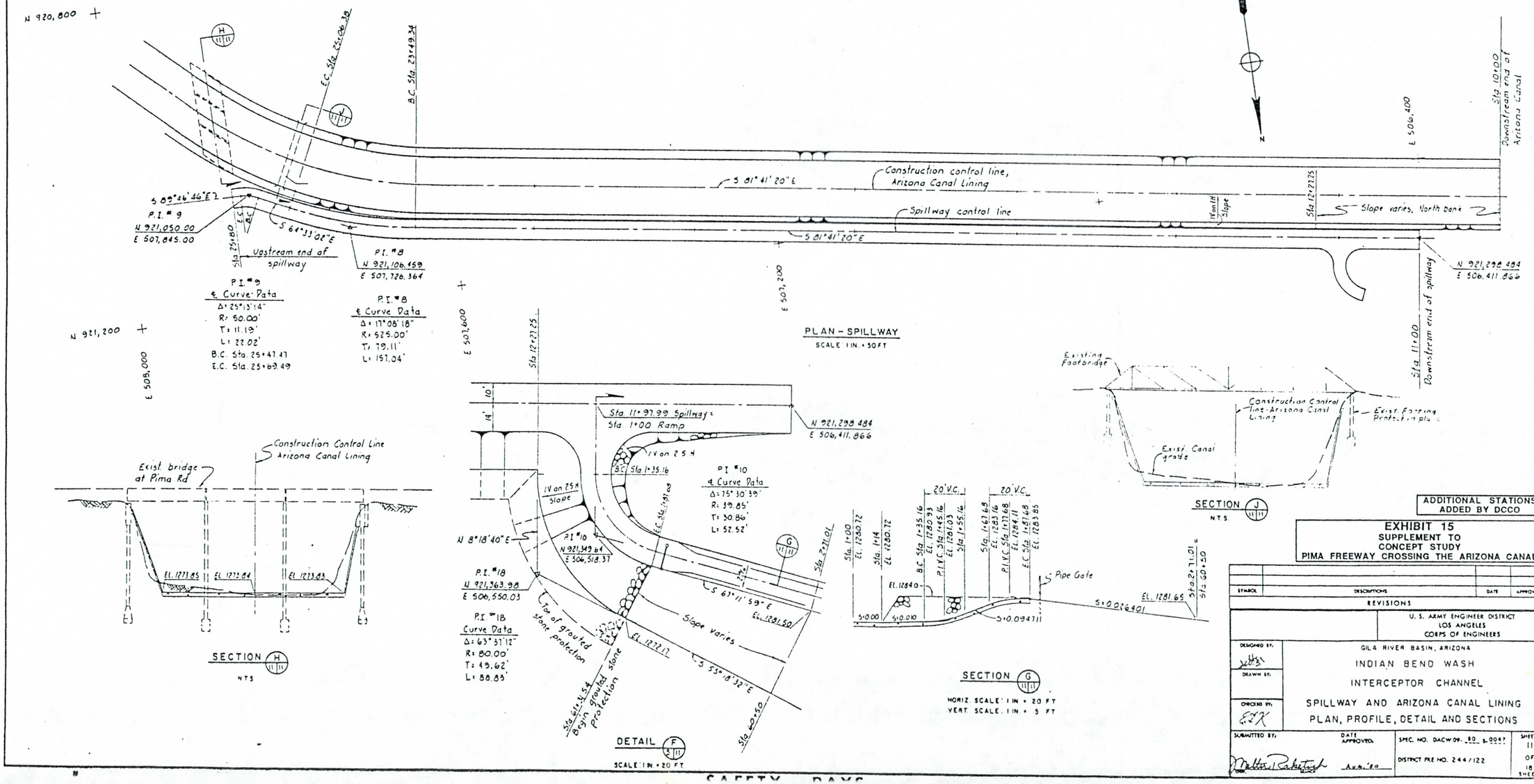
SUBMITTED BY:
DATE APPROVED: Aug. '60
SPEC. NO. DACW09-60-B-0047
DISTRICT FILE NO. 244/122
SHEET 11 OF 18 SHEETS

VALUE ENGINEERING PAYS



PROFILE AT SPILLWAY CONTROL LINE

HORIZ. SCALE: 1 IN. = 50 FT
VERT. SCALE: 1 IN. = 5 FT



ADDITIONAL STATIONS ADDED BY DCCO

EXHIBIT 15
SUPPLEMENT TO CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

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

DESIGNED BY:
DRAWN BY:
CHECKED BY:

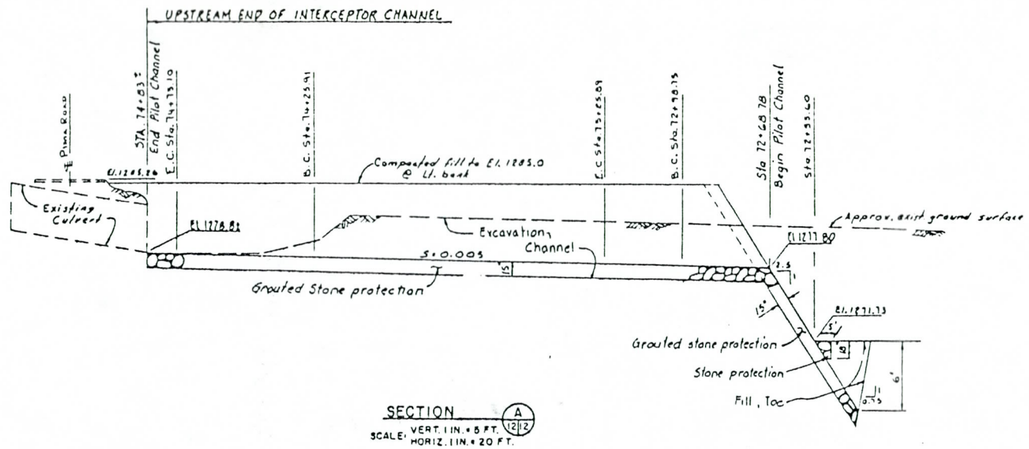
GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
SPILLWAY AND ARIZONA CANAL LINING
PLAN, PROFILE, DETAIL AND SECTIONS

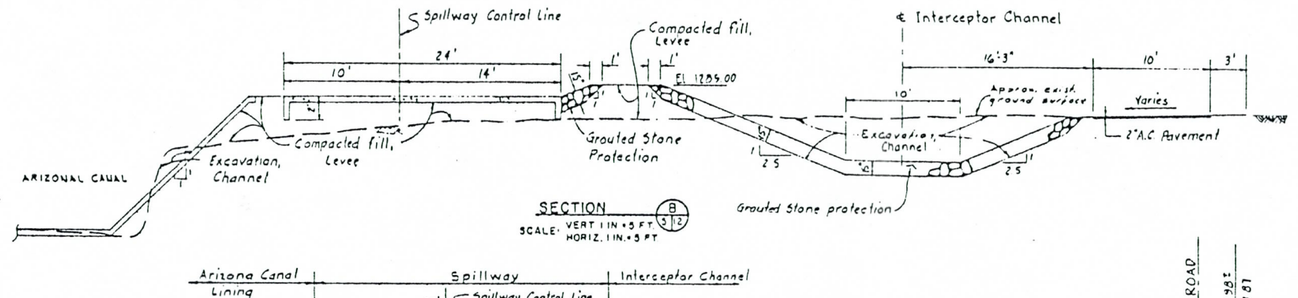
SUBMITTED BY: Walter Baketarich, CHIEF
DATE APPROVED: Aug '80
SPEC. NO. DACW09-80-B-0047
DISTRICT FILE NO. 244/122
SHEET 11 OF 18 SHEETS

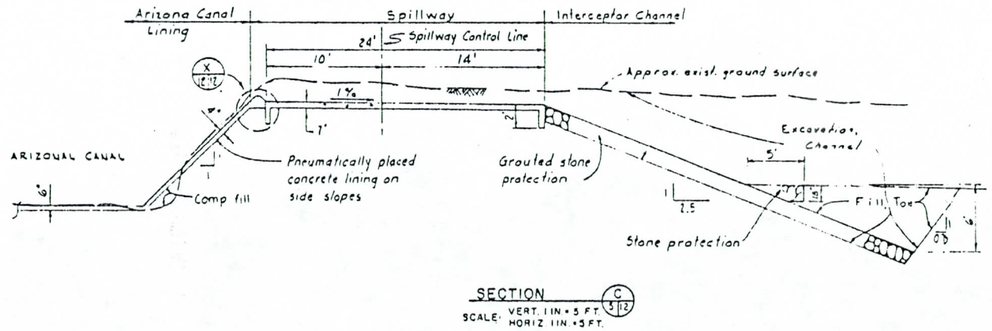
ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING

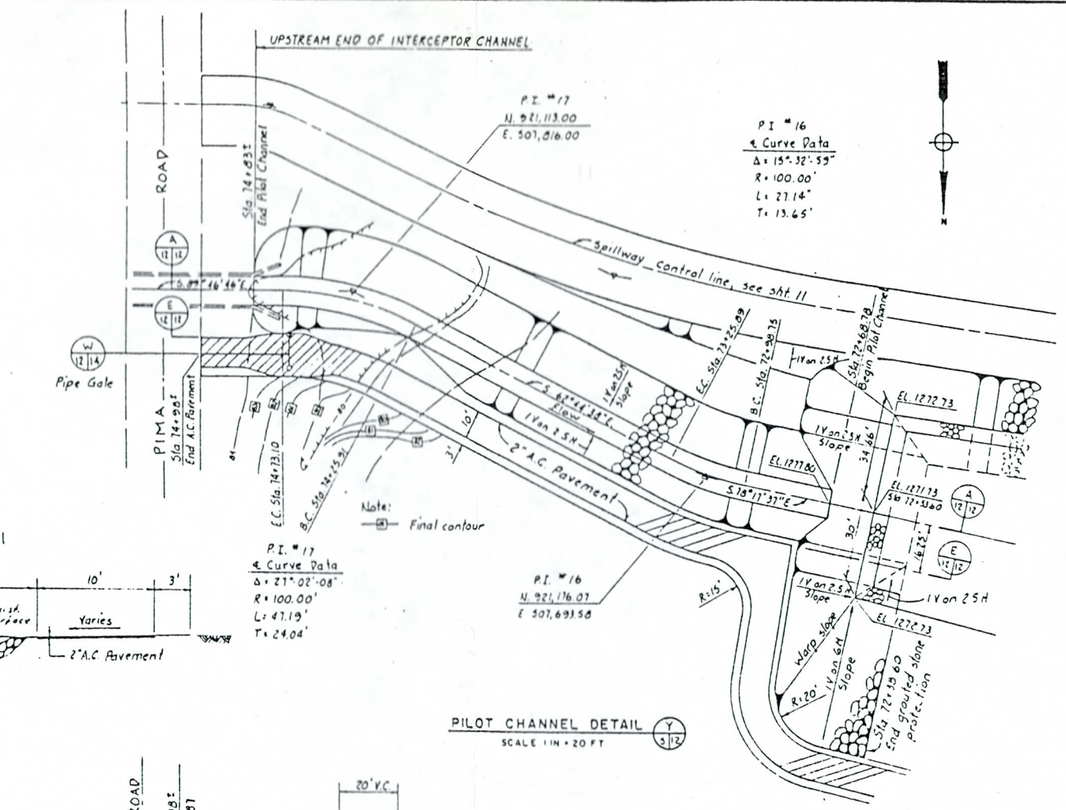
SAFETY DAYS

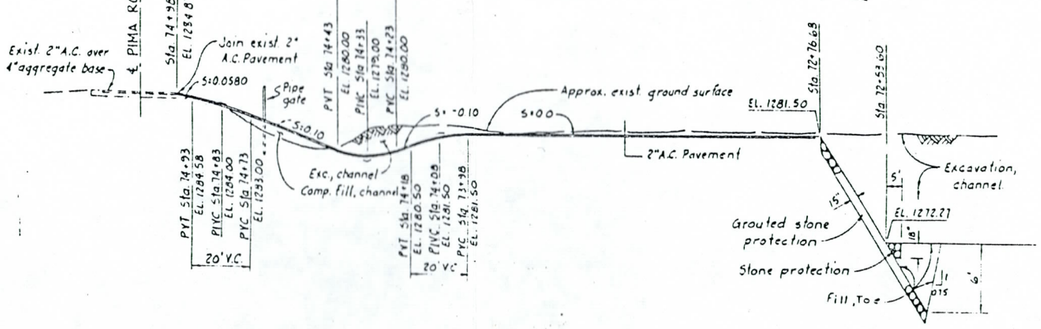
ENVIRONMENTAL ENHANCEMENT INCLUDED THRU ENGINEERING

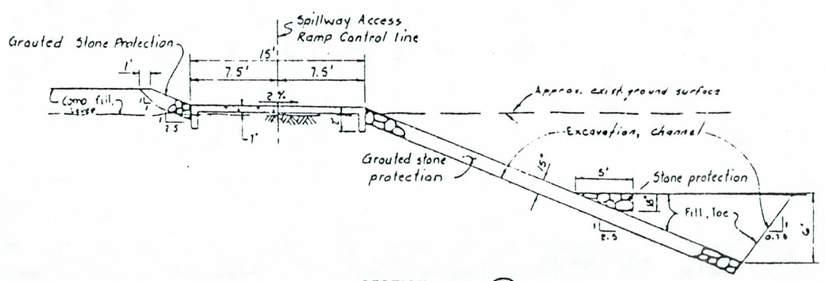


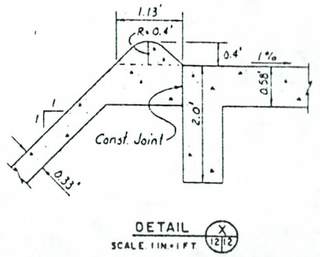












SECTION
SCALE VERT 1 IN. = 5 FT. HORIZ 1 IN. = 20 FT.

GRAPHIC SCALES

SCALE 1 IN. = 1 FT.

SCALE 1 IN. = 5 FT.

SCALE 1 IN. = 20 FT.

EXHIBIT 16
SUPPLEMENT TO CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

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

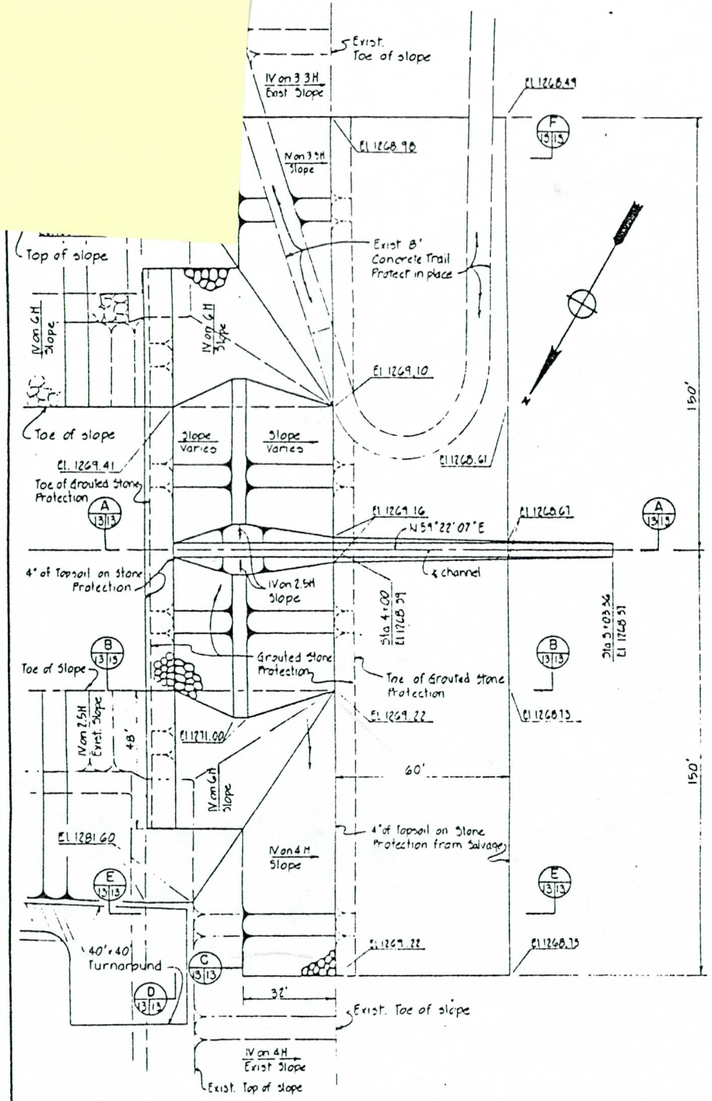
DESIGNED BY: LLS
DRAWN BY: R.W.S.
CHECKED BY: E.J.K.

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
SPILLWAY AND PILOT CHANNEL
SECTIONS AND DETAILS

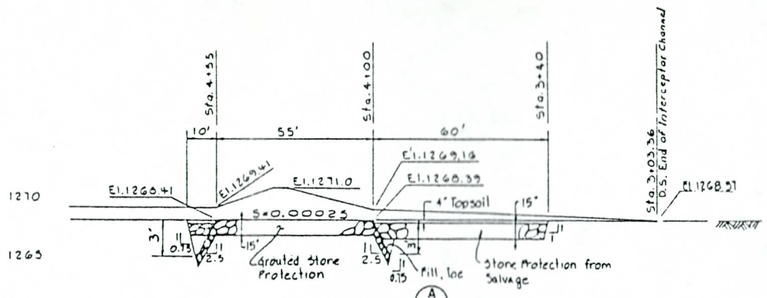
SUBMITTED BY: Chief, Design Branch
DATE APPROVED: Aug '80
SPEC. NO. DACW09-80-B-0047
DISTRICT FILE NO. 244/123
SHEET 12 OF 18 SHEETS

Removal of buried bank protection?

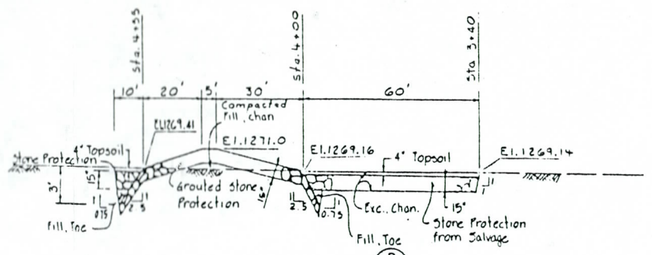
ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING



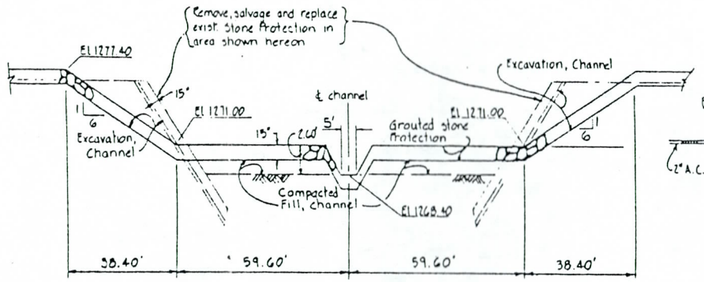
PLAN
SCALE: 1 IN = 20 FT.



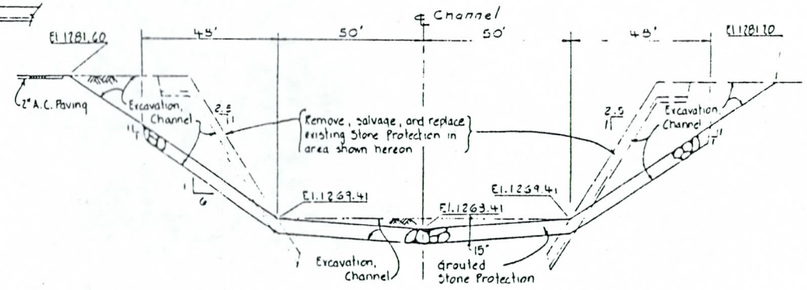
SECTION A 13/13
SCALE: VERT. 1 IN. = 5 FT. HORIZ. 1 IN. = 20 FT.



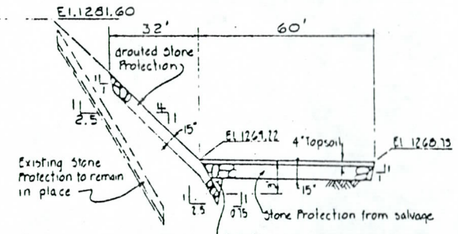
SECTION B 13/13
SCALE: VERT. 1 IN. = 5 FT. HORIZ. 1 IN. = 20 FT.



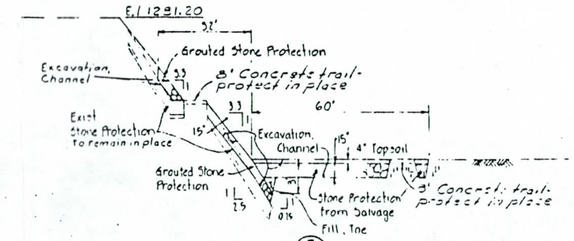
SECTION C 13/13
SCALE: VERT. 1 IN. = 5 FT. HORIZ. 1 IN. = 20 FT.



SECTION D 13/13
SCALE: VERT. 1 IN. = 5 FT. HORIZ. 1 IN. = 20 FT.



SECTION E 13/13
SCALE: VERT. 1 IN. = 5 FT. HORIZ. 1 IN. = 20 FT.



SECTION F 13/13
SCALE: VERT. 1 IN. = 5 FT. HORIZ. 1 IN. = 20 FT.

EXHIBIT 17
SUPPLEMENT TO CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

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

DESIGNED BY:
DRAWN BY:
CHECKED BY:
SUBMITTED BY:
DATE APPROVED:

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
OUTLET STRUCTURE
PLAN AND SECTIONS

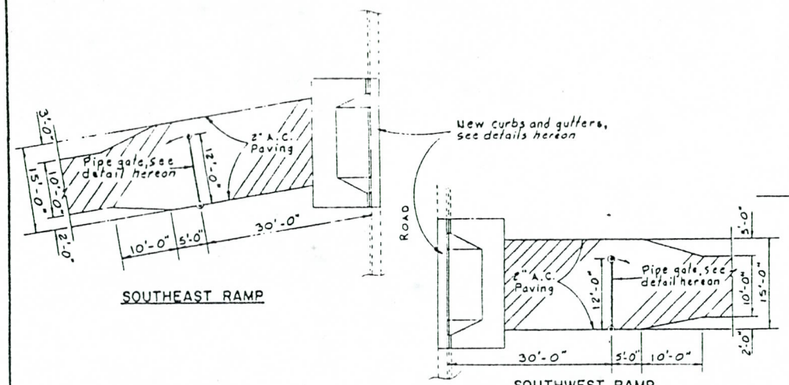
SPEC. NO. DACW09-80-B-0047
DISTRICT FILE NO. 244/124
SHEET 13 OF 18 SHEETS

GRAPHIC SCALES

10 0 10 20 30 40 50
SCALE 1" = 20'

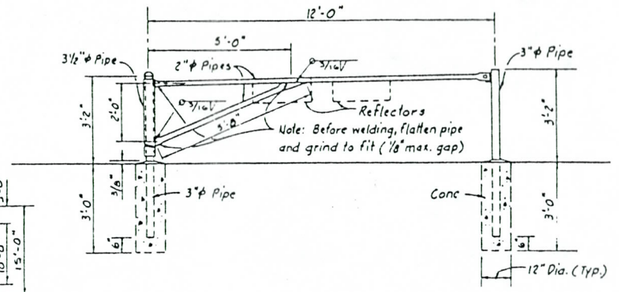
50 0 50 100 150
SCALE 1" = 50'

ENVIRONMENTAL
ENGINEERING
THRU ENGINEERING

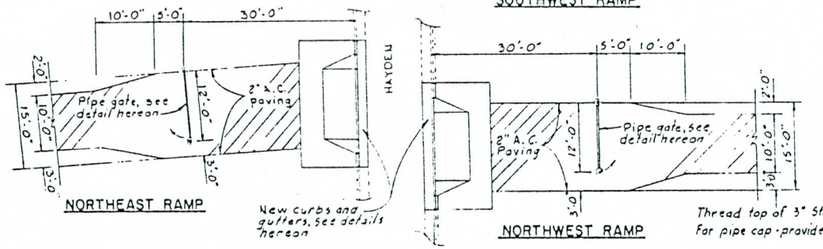


SOUTHEAST RAMP

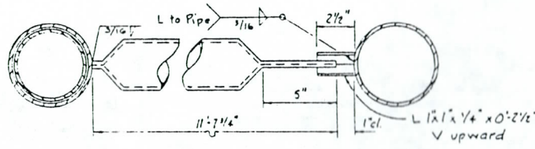
SOUTHWEST RAMP

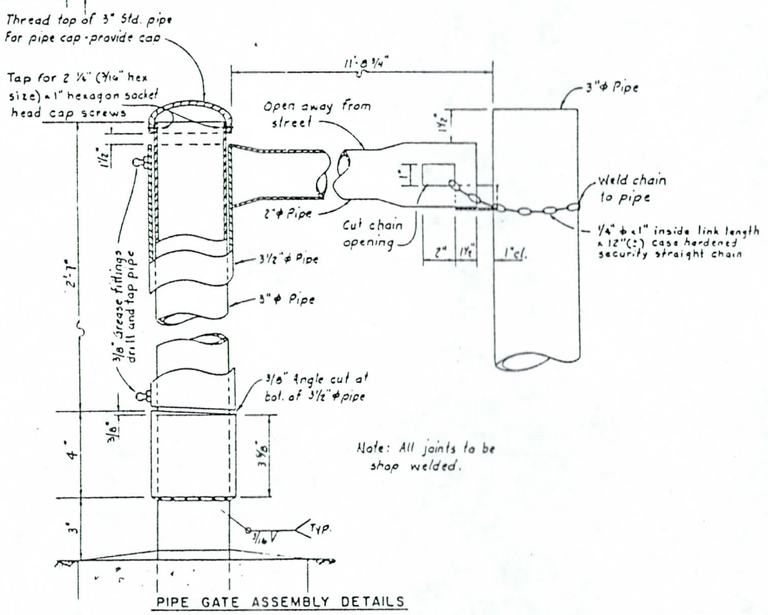


FRONT VIEW

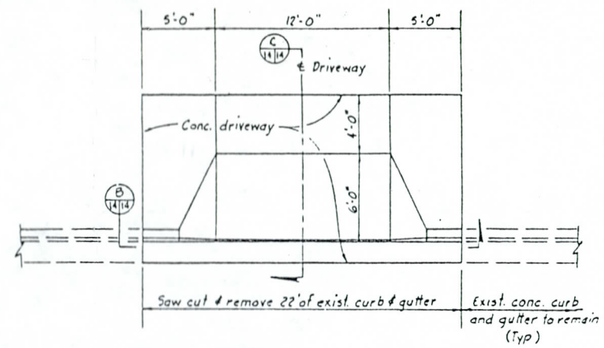


PIPE GATE AND RAMP DETAILS AT HAYDEN ROAD
SCALE: 1 IN = 10 FEET

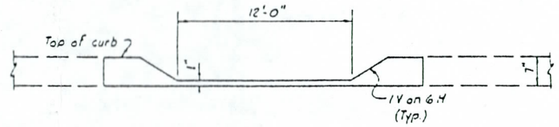




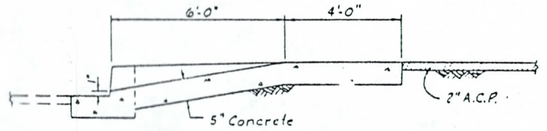
PIPE GATE ASSEMBLY DETAILS



PLAN

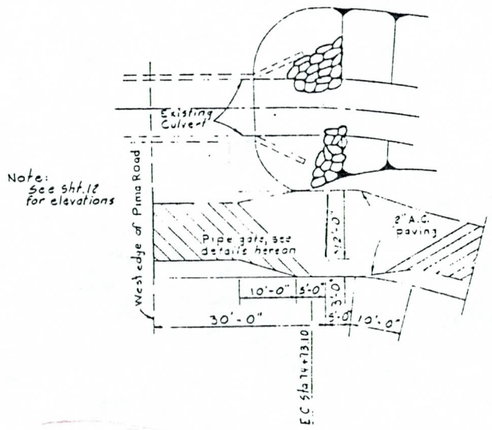


SECTION B 14/14



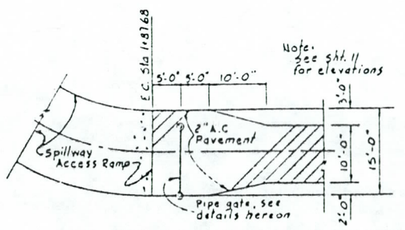
SECTION C 14/14

DRIVEWAY DETAILS AT HAYDEN ROAD Z 8/14
NOT TO SCALE



PIPE GATE AND RAMP DETAIL AT PIMA ROAD
SCALE 1 IN = 10 FEET

PIPE GATE DETAILS W 5/14
NOT TO SCALE



PIPE GATE AND RAMP DETAIL AT SPILLWAY
SCALE: 1 IN = 10 FEET

EXHIBIT 18
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

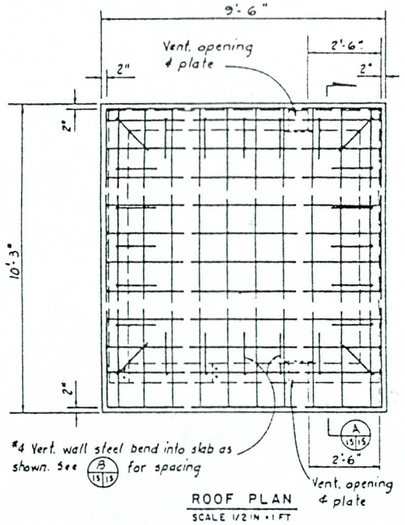
U. S. ARMY ENGINEER DISTRICT
LOS ANGELES
CORPS OF ENGINEERS

DESIGNED BY:
DRAWN BY:
CHECKED BY:

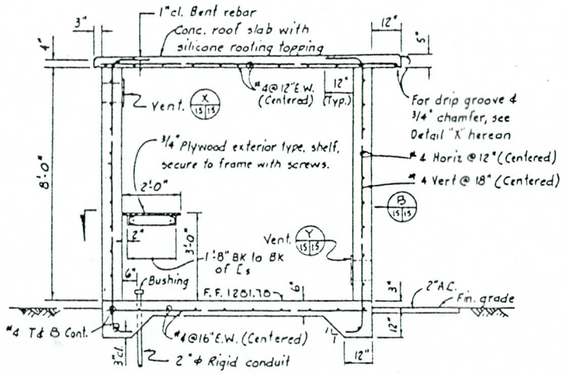
GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
PIPE GATE AND DRIVEWAY DETAILS

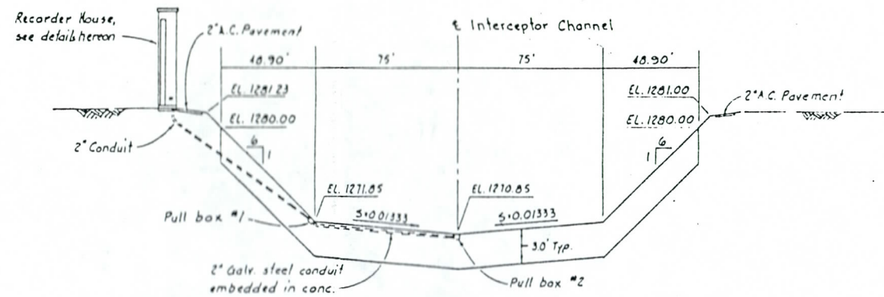
SUBMITTED BY: Walter Babitzke, Chief, Design Branch
DATE APPROVED: Aug. '70
SPEC. NO. DACW09-[illegible]-9027
DISTRICT FILE NO. 244/125
SHEET 14 OF 18 SHEETS

SAFETY DAYS

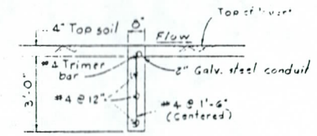


ROOF PLAN
SCALE 1/2 IN = 1 FT



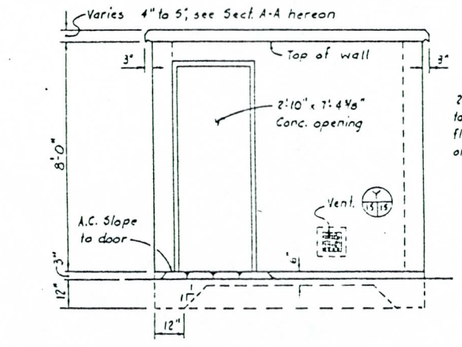


PROFILE OF WEIR
HORIZ. SCALE 1 IN = 30 FT
VERT. SCALE 1 IN = 3 FT

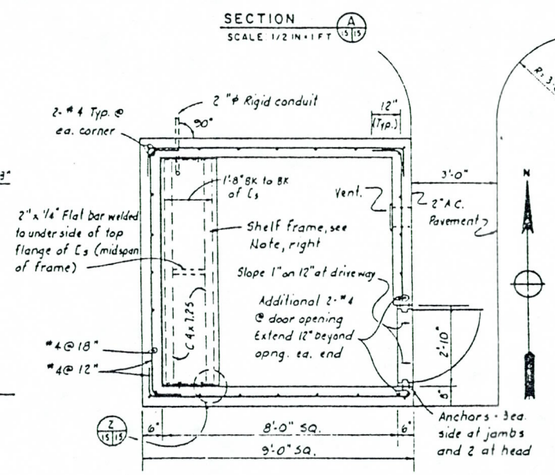


TYPICAL WEIR SECTION
SCALE: 1/2 IN. = 1 FT.

WEIR DETAILS 3/6 15

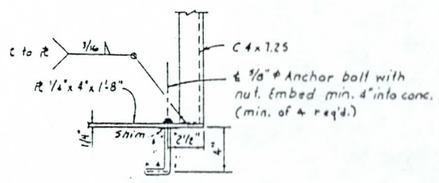


FRONT ELEVATION
SCALE: 1/2 IN = 1 FT



SECTION B 15/15
SCALE: 1/2 IN = 1 FT.

Note: 7'-11 1/2" x 1'-8" Shelf frame shall be shop fabricated; bolted and shimmed to conc. walls as indicated.



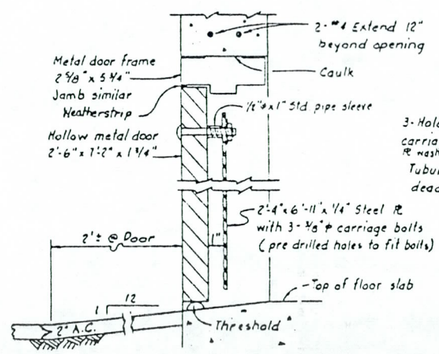
DETAIL 2 15/15
(TYPICAL AT 4 CORNERS)
SCALE: 3 IN. = 1 FT.

TYPICAL WEIR SECTION
SCALE: 1/2 IN. = 1 FT.

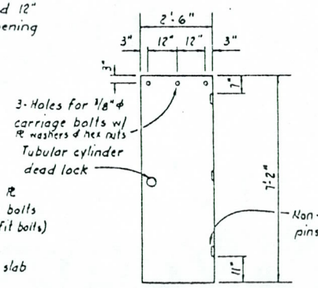
WEIR DETAILS 3/6 15

Conduit and Pull Box Notes:

1. All bends in 2" ϕ steel conduit shall have a min. 12" radius. Conduit shall be installed on a continuous downward slope from recorder house to pull box #1. Where conduit is not embedded in concrete, trench shall be 12" min. depth.
2. Cast iron pull boxes shall be 8" long x 6" wide x 6" deep and galvanized with waterproof cover.

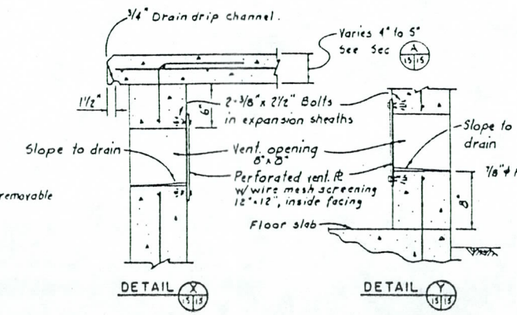


SECTION THRU DOOR
SCALE: 3 IN. = 1 FT.



DOOR ELEVATION
SCALE: 1/2 IN. = 1 FT.

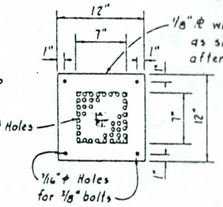
DOOR DETAILS



DETAIL X 15/15

DETAIL Y 15/15

VENTILATOR DETAILS
SCALE: 1 1/2 IN. = 1 FT.



VENTILATOR PLATE

RECORDER HOUSE DETAILS 2 6 15

GRAPHIC SCALES

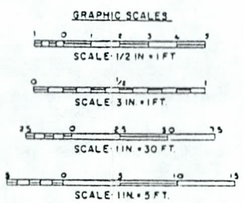


EXHIBIT 19
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

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

DESIGNED BY:
DRAWN BY:
CHECKED BY:

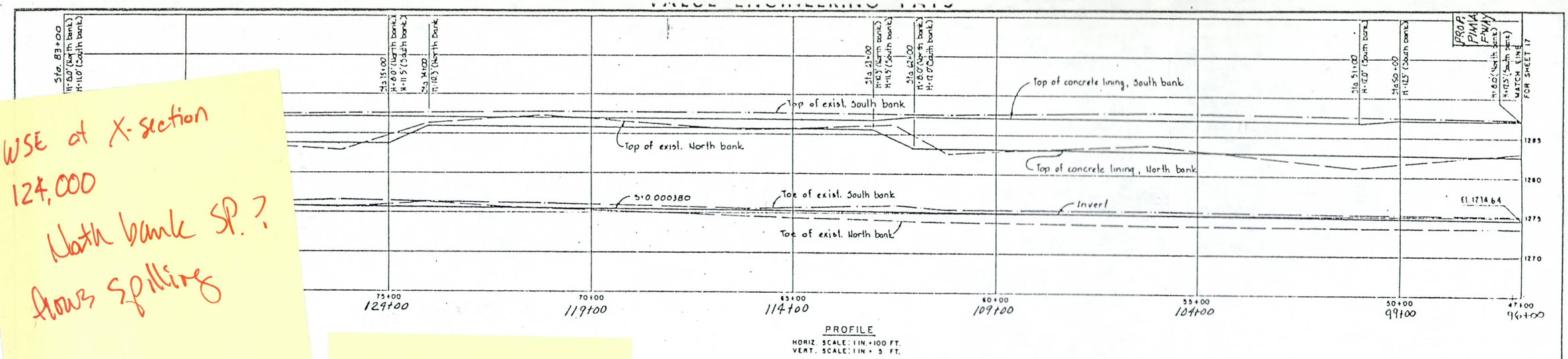
GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
RECORDER HOUSE AND
GAGING STATION DETAILS

SUBMITTED BY:
DATE APPROVED:
SPEC. NO. DACW09-80-B-0047
DISTRICT FILE NO. 244/126
SHEET 15 OF 18 SHEETS

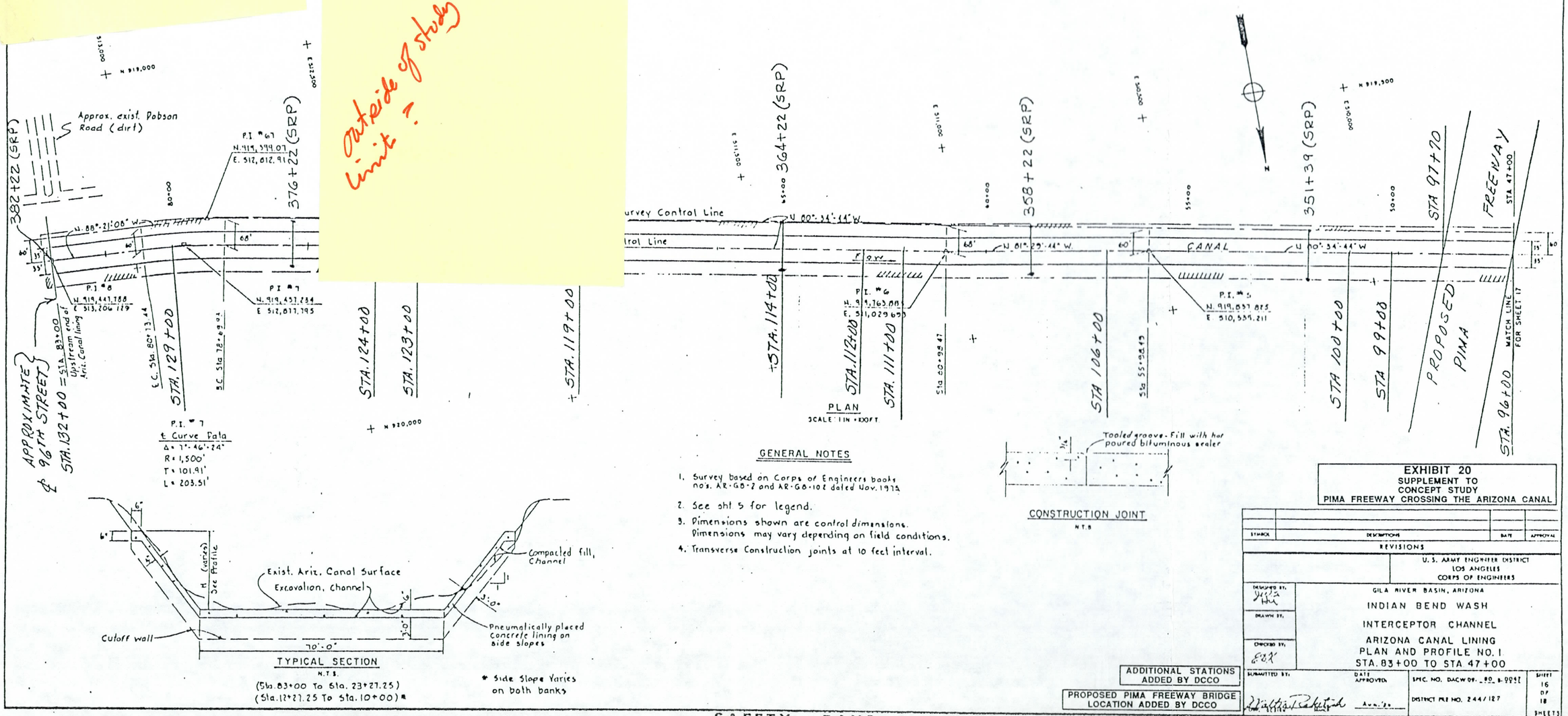
ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING

WSE at X-section
124,000
North bank SP.?
flows spilling

outside of study limit ?



PROFILE
HORIZ. SCALE: 1 IN. = 100 FT.
VERT. SCALE: 1 IN. = 5 FT.



P.I. #7
℄ Curve Data
Δ = 7°-46'-24"
R = 1,500'
T = 101.91'
L = 203.51'

PLAN
SCALE: 1 IN. = 100 FT.

TYPICAL SECTION
N.T.S.
(Sta. 83+00 To Sta. 23+27.25)
(Sta. 12+27.25 To Sta. 10+00)

* Side Slope Varies on both banks

CONSTRUCTION JOINT
N.T.S.

GENERAL NOTES

1. Survey based on Corps of Engineers books nos. AR-GB-2 and AR-GB-102 dated Nov. 1975
2. See sht 5 for legend.
3. Dimensions shown are control dimensions. Dimensions may vary depending on field conditions.
4. Transverse Construction joints at 10 feet interval.

ADDITIONAL STATIONS ADDED BY DCCO

PROPOSED PIMA FREEWAY BRIDGE LOCATION ADDED BY DCCO

EXHIBIT 20
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTIONS	DATE	APPROVAL
	REVISIONS		

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

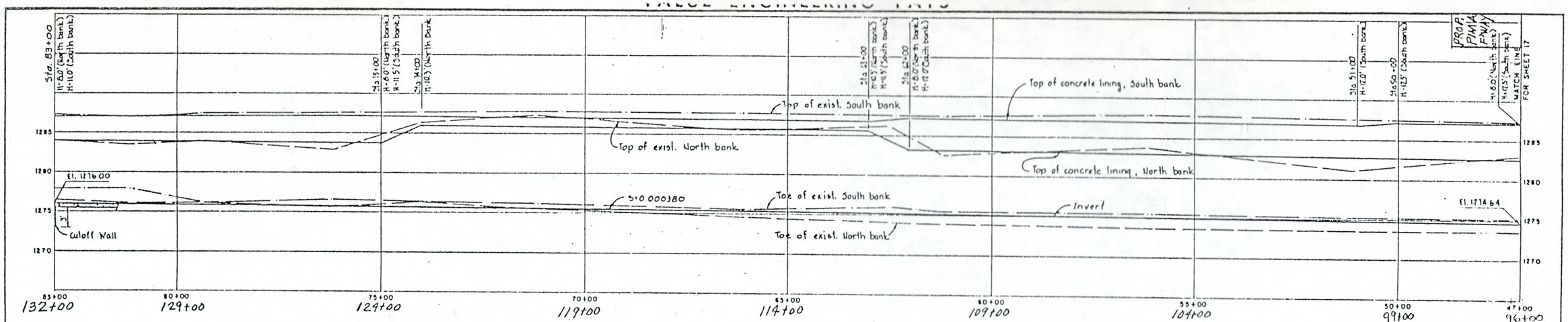
DESIGNED BY: [illegible]
DRAWN BY:
CHECKED BY: [illegible]

GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
ARIZONA CANAL LINING
PLAN AND PROFILE NO. 1
STA. 83+00 TO STA 47+00

SUBMITTED BY: [illegible]
DATE APPROVED: Aug. 20
SPEC. NO. DACW09-80-B-0052
DISTRICT FILE NO. 244/127
SHEET 16 OF 18 SHEETS

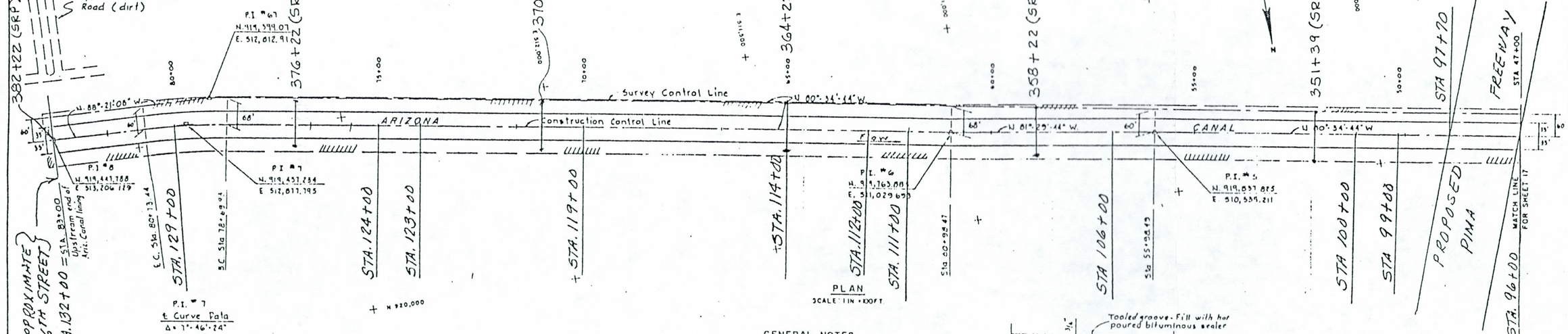
SAFETY PAYS

ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING



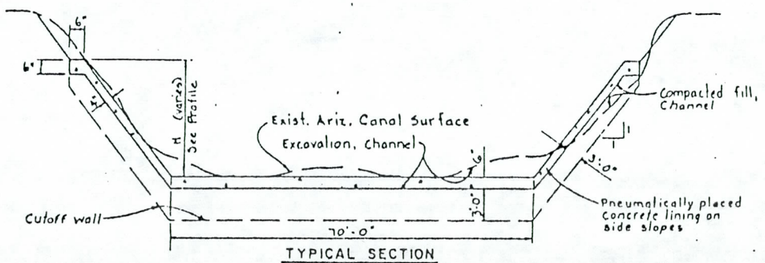
PROFILE

HORIZ. SCALE: 1 IN. = 100 FT.
VERT. SCALE: 1 IN. = 5 FT.



PLAN

SCALE: 1 IN. = 100 FT.



TYPICAL SECTION

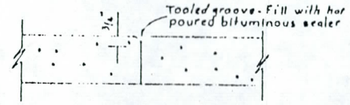
N.T.S.

(Sta. 83+00 To Sta. 23+27.25)
(Sta. 12+27.25 To Sta. 10+00) *

* Side Slope Varies on both banks

GENERAL NOTES

1. Survey based on Corps of Engineers books nos. AR-GB-2 and AR-GB-10E dated Nov. 1979
2. See sht 5 for legend.
3. Dimensions shown are control dimensions. Dimensions may vary depending on field conditions.
4. Transverse Construction joints at 10 feet interval.



CONSTRUCTION JOINT

N.T.S.

ADDITIONAL STATIONS ADDED BY DCCO

PROPOSED PIMA FREEWAY BRIDGE LOCATION ADDED BY DCCO

EXHIBIT 20
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

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

DESIGNED BY: [illegible]
DRAWN BY:
CHECKED BY: [illegible]

GILA RIVER BASIN, ARIZONA

INDIAN BEND WASH

INTERCEPTOR CHANNEL

ARIZONA CANAL LINING

PLAN AND PROFILE NO. 1

STA. 83+00 TO STA 47+00

SUBMITTED BY: [illegible]
DATE APPROVED: Aug. '84

SPEC. NO. DACW09-_80_-B-0002
DISTRICT FILE NO. 244/127

SHEET 16 OF 18 SHEETS

SAFETY DAYS

ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING

MATCH LINE FOR SHEET 16

Sta 46+00 (North bank) H=12.5'
Sta 46+00 (South bank) H=12.5'
Sta 44+00 (South bank) H=12.5'
Sta 42+00 (South bank) H=11.5'
Sta 38+00 (North bank) H=9.5'
Sta 37+00 (North bank) H=11.0'
Sta 29+00 (South bank) H=11.5'
Sta 28+00 (Both banks) H=11.0'
STR. 75° Sta. 26+12.55 PIMA ROAD
Sta. 24+64.50 (South bank) H=11.0'
P.I.V.C. Sta. 23+27.25 H=6.87' (North bank)
B.C. Sta. 23+27.25
Sta. 12+27.25 P.I.V.C. Sta. 12+27.25 H=6.87' (North bank)
P.I.V.C. Sta. 11+10 H=6.18' (North bank)
Sta. 10+00 H=10.30' (North bank) H=11.0' (South bank)

Top of concrete lining, South bank
Top of exist. South bank
Top of exist. North bank
Top of concrete lining, North bank
Top of concrete lining, South bank
Top of concrete lining, North bank
1286.0
1284.0
EL. 1274.64
Invert
S=0.000380
Toe of exist. South bank
Toe of exist. North bank
EL. 1273.73
S=0.000455
EL. 1273.23
EL. 1273.20
S=0.000150
Grade Change
Grade Change
Cutoff wall

1285
1280
1275
1270

47+00 96+00
45+00 94+00
40+00 89+00
35+00 84+00
30+00 79+00
25+00 74+00
20+00 69+00
15+00 64+00
10+00 59+00

PROFILE

HORIZ. SCALE: 1 IN. = 100 FT.
VERT. SCALE: 1 IN. = 5 FT.

STA 59+00.(-) = STA 100+00.(-) Downstream end of Arizona Canal lining

346+22 (SRP)
341+89 (SRP)
340+22 (SRP)
334+22 (SRP)
328+14 (SRP)
STA. 175+32

P.I. #6 N 970,032.99 E. 508,945.44
P.I. #5 N 970,233.33 E. 500,546.59
P.I. #4 N 970,091.714 E. 509,005.092
P.I. #3 N 970,206.172 E. 508,579.461
P.I. #2 N 971,044.272 E. 501,785.406
P.I. #1 N 971,260.996 E 506,305.256
P.I. #7 N 971,006.91 E. 501,632.59
P.I. #8 N 970,896.60 E 501,455.43

N. 80°-34'-48" W.
N. 65°-33'-34" W.
N. 46°-10'-35" W.
N. 81°-41'-20" W.
N. 63°-40'-04" W.

Survey Control Line
Construction Control Line
ARIZONA CANAL
Flow
Interceptor Channel
Existing Footbridge (Protect in place)
Existing Pemassing bridge (Protect in place)
Exist. water meter in conc. box (protect in place)
Exist. 8" water line (City of Scottsdale) (protect in place)
Contractor's Work Area
Side Slope varies on both banks
Join exist. Arit Canal lining

STA. 96+00
STA. 95+00
STA. 91+00
STA. 87+00
STA. 86+00
STA. 81+00
STA 77+72
STA 76+60

P.I. #4 Curve Data
Δ = 14°-41'-10"
R = 700'
T = 90.21'
L = 179.42'

P.I. #3 Curve Data
Δ = 19°-42'-55"
R = 1,000'
T = 173.78'
L = 344.12'

P.I. #2 Curve Data
Δ = 35°-30'-45"
R = 526.54'
T = 168.61'
L = 326.35'

E. 509,500
E. 509,000
E. 508,500
E. 501,000
E. 501,500
E. 506,000
E. 506,500
N. 921,000
N. 921,500

PLAN
SCALE: 1 IN. = 100 FT.

Arizona Canal Spillway Lining
6"
6"
4"
H (varies) See Profile
Exist. Ariz. Canal Surface
Pneumatically placed concrete lining on side slopes
70'
6'
1
1

TYPICAL SECTION
N.T.S.
(Sta 23+27.25 To Sta. 12+27.25)

ADDITIONAL STATIONS ADDED BY DCCO

EXHIBIT 21
SUPPLEMENT TO CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

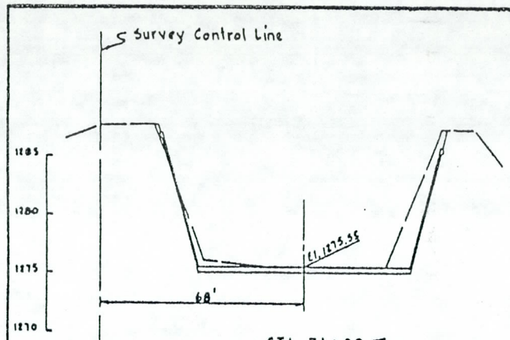
SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

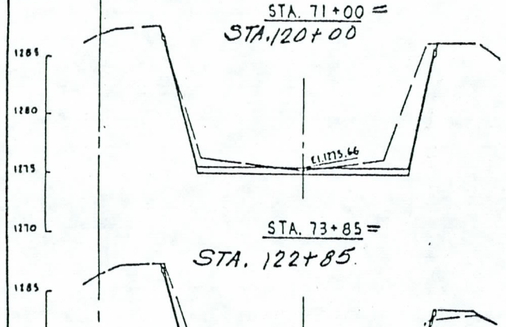
U. S. ARMY ENGINEER DISTRICT
LOS ANGELES
CORPS OF ENGINEERS

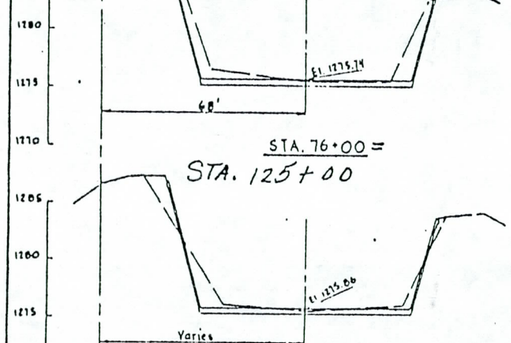
DESIGNED BY: J.C.S. Hen
DRAWN BY:
CHECKED BY: RJK

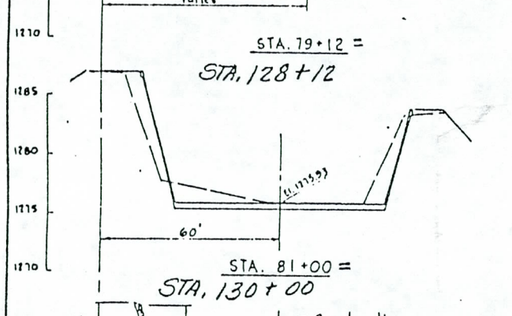
GILA RIVER BASIN, ARIZONA
INDIAN BEND WASH
INTERCEPTOR CHANNEL
ARIZONA CANAL LINING
PLAN AND PROFILE NO. 2
STA. 47+00 TO STA. 10+00

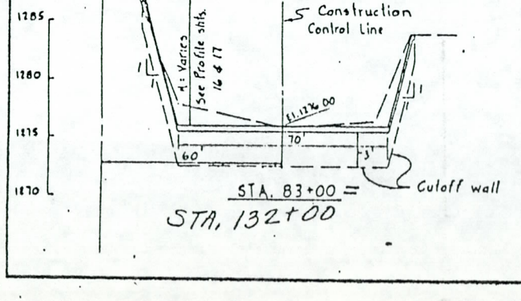
SUBMITTED BY: Walter Rabitzsch, Asst. Dist. Engr.
DATE APPROVED:
SPEC. NO. DACW 09-_-R-_____
DISTRICT FILE NO. 244/128
SHEET 17 OF 18 SHEETS

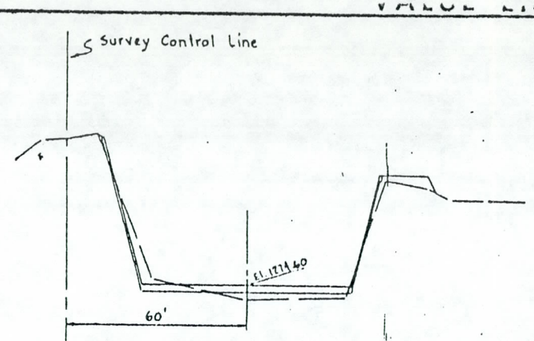


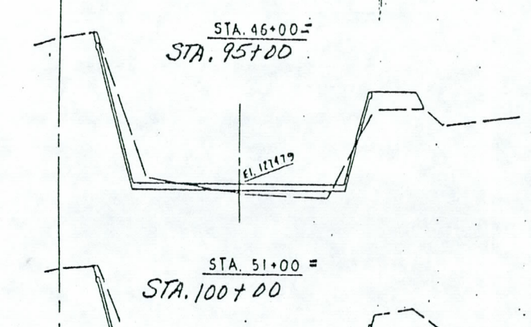


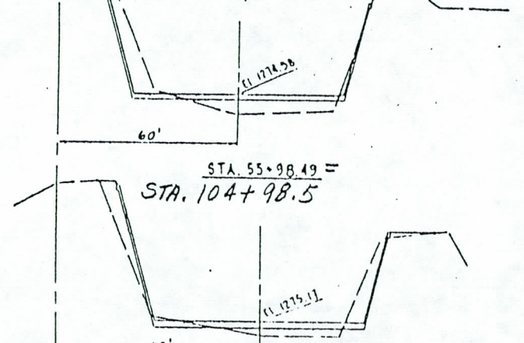


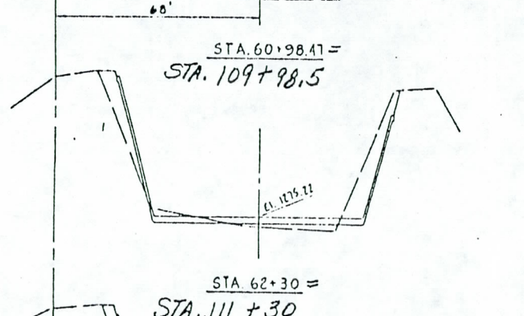


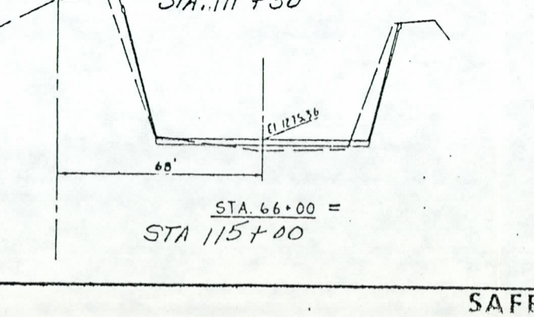


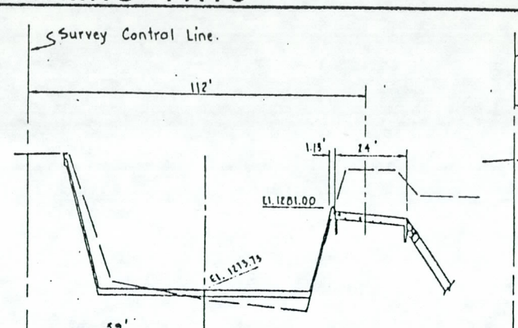


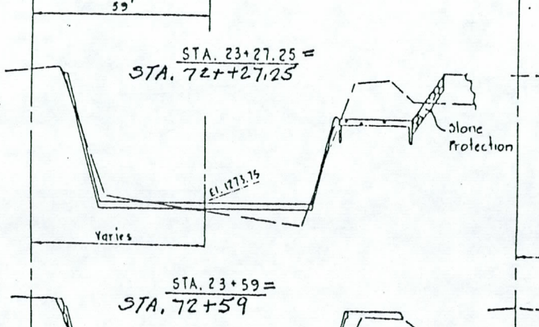


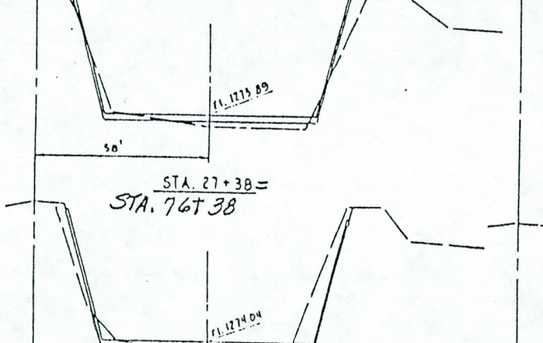


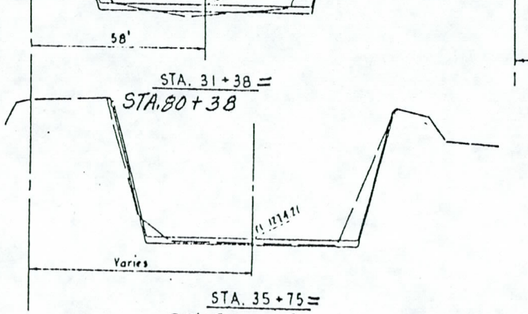


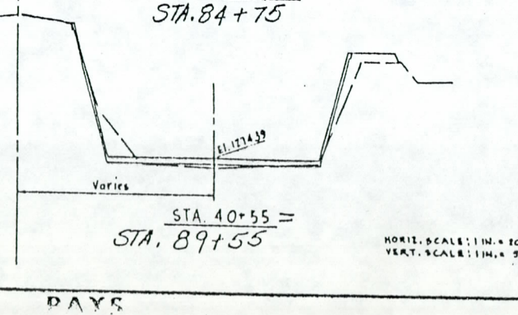


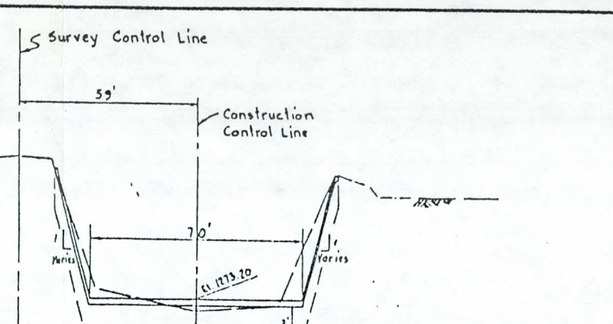


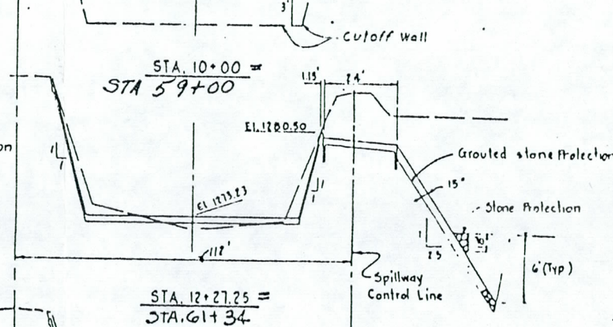


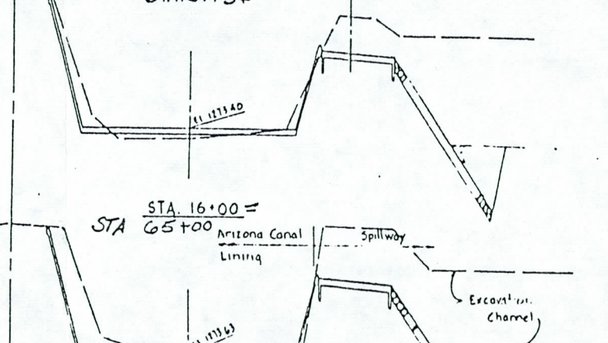


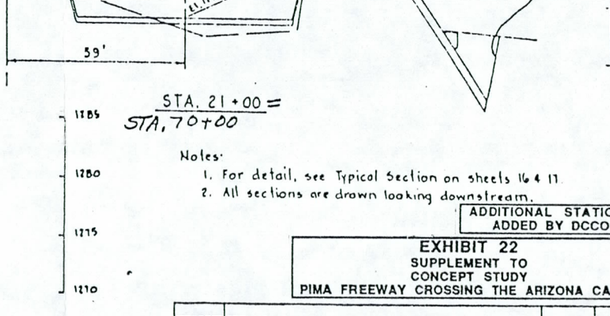


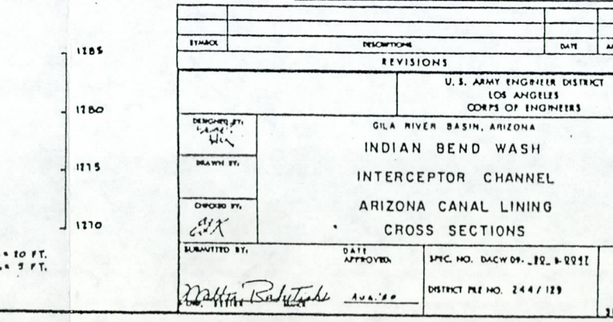












HORIZ. SCALE: 1 IN. = 50 FT.
VERT. SCALE: 1 IN. = 5 FT.

Notes:
1. For detail, see Typical Section on sheets 16 & 17
2. All sections are drawn looking downstream.

ADDITIONAL STATIONS ADDED BY DCCO

EXHIBIT 22
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

SYMBOL	DESCRIPTION	DATE	APPROVAL
	REVISIONS		

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

DESIGNED BY:
DRAWN BY:
CHECKED BY:

GILA RIVER BASIN, ARIZONA

INDIAN BEND WASH
INTERCEPTOR CHANNEL
ARIZONA CANAL LINING
CROSS SECTIONS

SUBMITTED BY: DATE APPROVED: Aug. '80

SPEC. NO. DACW09-_80_-B-0091
DISTRICT FILE NO. 244/129

SHEET 15 OF 18 SHEETS

ENVIRONMENTAL ENHANCEMENT THRU ENGINEERING

ARIZONA CANAL CROSSING

HYDROGRAPH (per Ward)

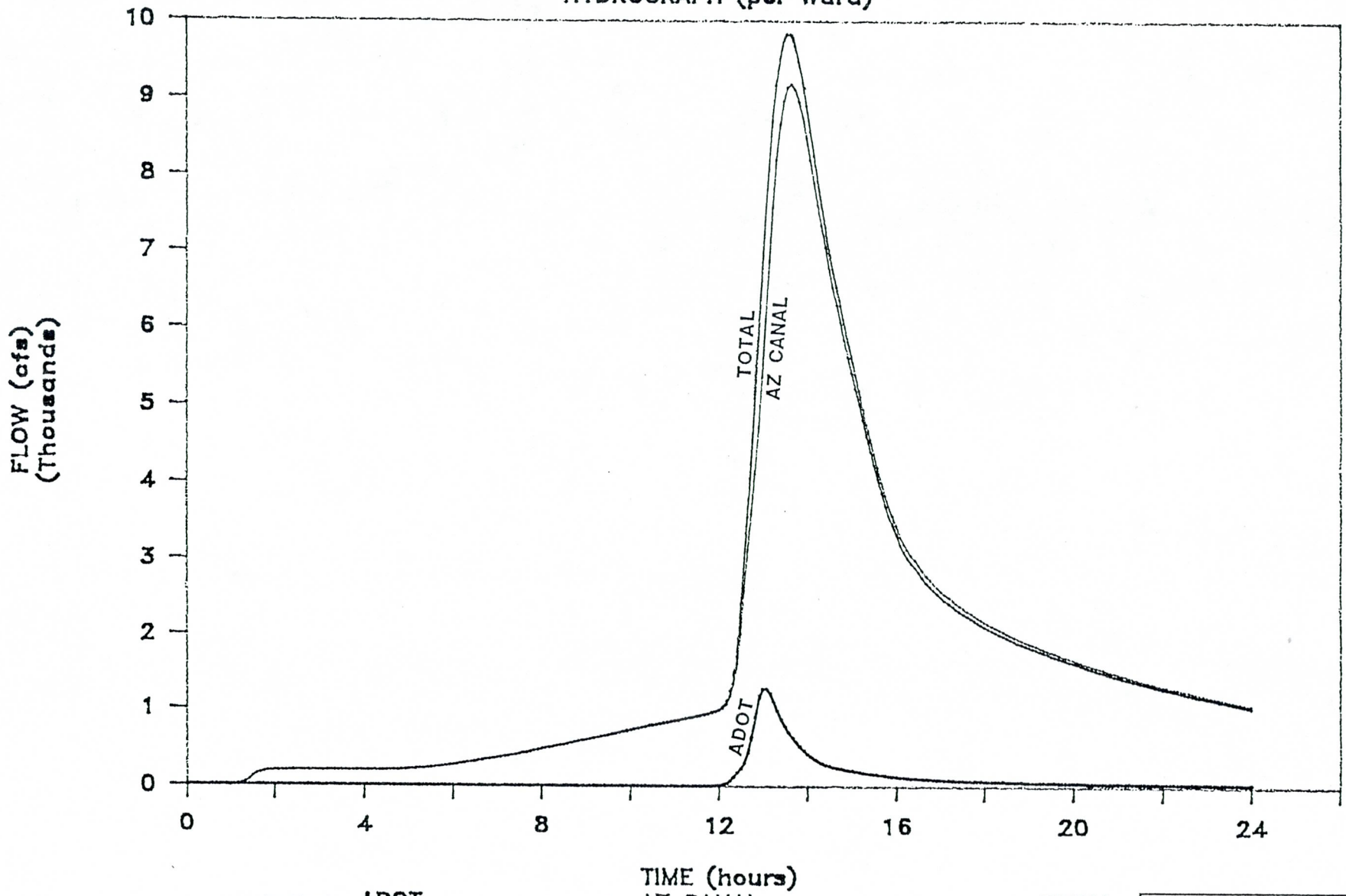


EXHIBIT 23
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

ARIZONA CANAL CROSSING

HYDOLOGY COMPARISION

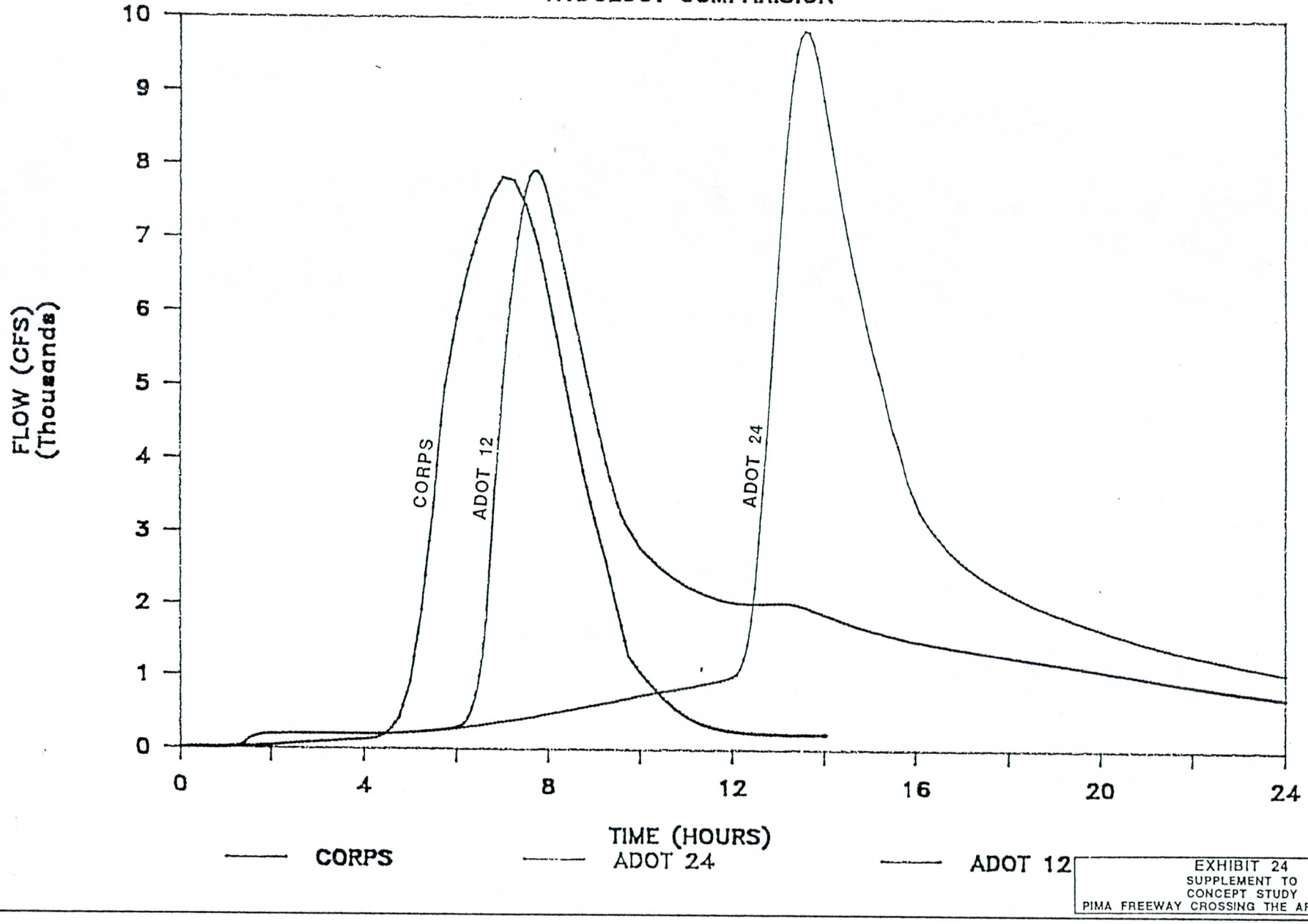
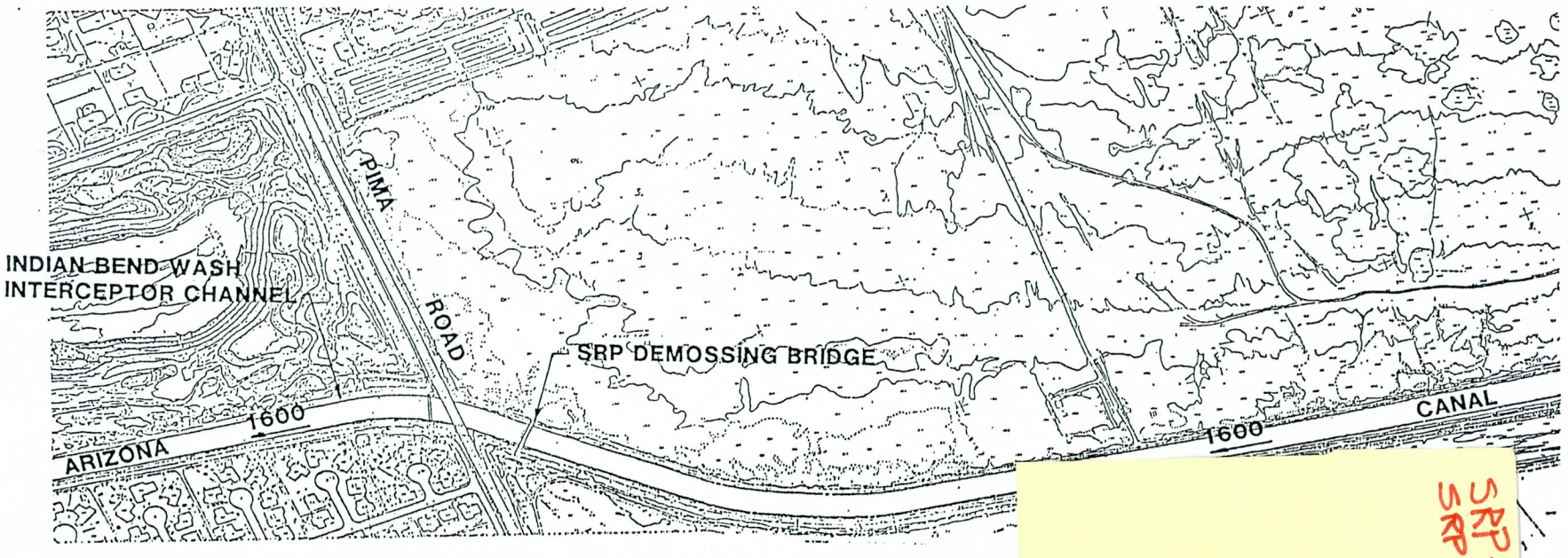


EXHIBIT 24
SUPPLEMENT TO
CONCEPT STUDY
PIMA FREEWAY CROSSING THE ARIZONA CANAL

AUGUST 1990

LIST OF APPENDICES

APPENDIX	TYPE	OPTION	COMPUTER FILE NAME	MODEL DESCRIPTION	BOUNDARIES MAIN	BOUNDARIES DOWNSTREAM	BOUNDARIES UPSTREAM	DATUM	PROFILE(S)	DESCRIPTION	FLOW (CFS)	EVALUATION
A	HEC-2 MODEL	NONE	ARIZONA.IN	SRP SUPPLIED MODEL ARIZONA CANAL (UNLINED)	ARIZONA CANAL (UNLINED)	INDIAN BEND WASH RADIAL GATES	EVERGREEN WASTE GATES	SRP	PROFILE 1	SRP OPERATING CONDITIONS	Q=1600	SRP DATA
B	HEC-2 MODEL	SPLIT FLOW SIDE WEIR	APDNXBR.IN	COE SPILLWAY MODEL	ARIZONA CANAL (LINED)	SPILLWAY D/S	SPILLWAY U/S	COE	PROFILE 1 PROFILE 2	AS-BUILT ADOT DESIGN	Q=7100 Q=5150	COE DESIGN FLOW ADOT DESIGN FLOW
C	HEC-2 MODEL	NONE	APDNXCR.IN	COE DESIGN WITH FLOWS FROM SPILLWAY MODEL (APPENDIX B)	ARIZONA CANAL (LINED)	INDIAN BEND WASH RADIAL GATES	96TH STREET/ DOBSON ROAD	COE	PROFILE 1	AS-BUILT	Q=2500 Q=7100 Q=8000	COE DESIGN (ARIZONA CANAL ONLY)
D	HEC-2 MODEL	NONE	APDNXDR.IN	COE DESIGN WITH FLOWS FROM SPILLWAY MODEL (APPENDIX B)	INDIAN BEND WASH INTERCEPTOR CHANNEL	INDIAN BEND WASH RADIAL OUTLET	96TH STREET/ DOBSON ROAD	COE	PROFILE 1	AS-BUILT	Q=5500 THRU Q=1510	COE DESIGN (IBW INTERCEPTOR CHANNEL ONLY)
E	HEC-2 MODEL	SPLIT FLOW SIDE WEIR	APDNXER.IN	PROPOSED ARIZONA CANAL SPILLWAY	ARIZONA CANAL (LINED)	PROPOSED SPILLWAY D/S	PROPOSED PIMA FREEWAY	COE	PROFILE 1	ADOT DESIGN	Q=6250	ADOT DESIGN OF PROPOSED ARIZONA CANAL SPILLWAY FLOWS
F	HEC-2 MODEL	CHANNEL IMPROVEMENT	APDNXFR.IN	ADOT ARIZONA CANAL INTERCEPTOR CHANNEL (LINED)	ADOT ARIZONA CANAL INTERCEPTOR CHANNEL	WEST OF PIMA ROAD	96TH STREET/ DOBSON ROAD	COE	PROFILE 1	ADOT DESIGN	Q=5500 Q=2850 Q=1750	ADOT DESIGN OF PROPOSED ARIZONA CANAL INTERCEPTOR CHANNEL
G	HEC-2 MODEL	NONE	APDNXGR.IN	ARIZONA CANAL (LINED) FLOWS	ARIZONA CANAL (LINED)	INDIAN BEND WASH RADIAL GATES	96TH STREET/ DOBSON ROAD	COE	PROFILE 1 PROFILE 2	SRP OPERATING CONDITION ADOT DESIGN	Q=1600 Q=2500 THRU Q=6250	ARIZONA CANAL ONLY FOR SRP OPERATING FLOW AND ADOT DESIGN FLOWS
H	HEC-2 MODEL	CHANNEL IMPROVEMENT	APDNXHR.IN	ADOT ARIZONA CANAL INTERCEPTOR CHANNEL OTHER FLOWS	ADOT ARIZONA CANAL INTERCEPTOR CHANNEL	PIMA ROAD	PIMA FREEWAY	COE	PROFILE 1 PROFILE 2 PROFILE 3	ADOT DESIGN (1.2) DESIGN (1.23) DESIGN	Q=8000 Q=9600 Q=9830	ADOT CHECK FLOWS COMPARISON
I	HEC-2 MODEL	NONE	APDNXIR.IN	FLOOD PLAIN MODEL	ARIZONA CANAL (LINED)	INDIAN BEND WASH RADIAL GATES	96TH STREET/ DOBSON ROAD	COE	PROFILE 1	ADOT DESIGN	Q=2500 THRU Q=8000	FLOODPLAIN ANALYSIS FOR DESIGN FLOW

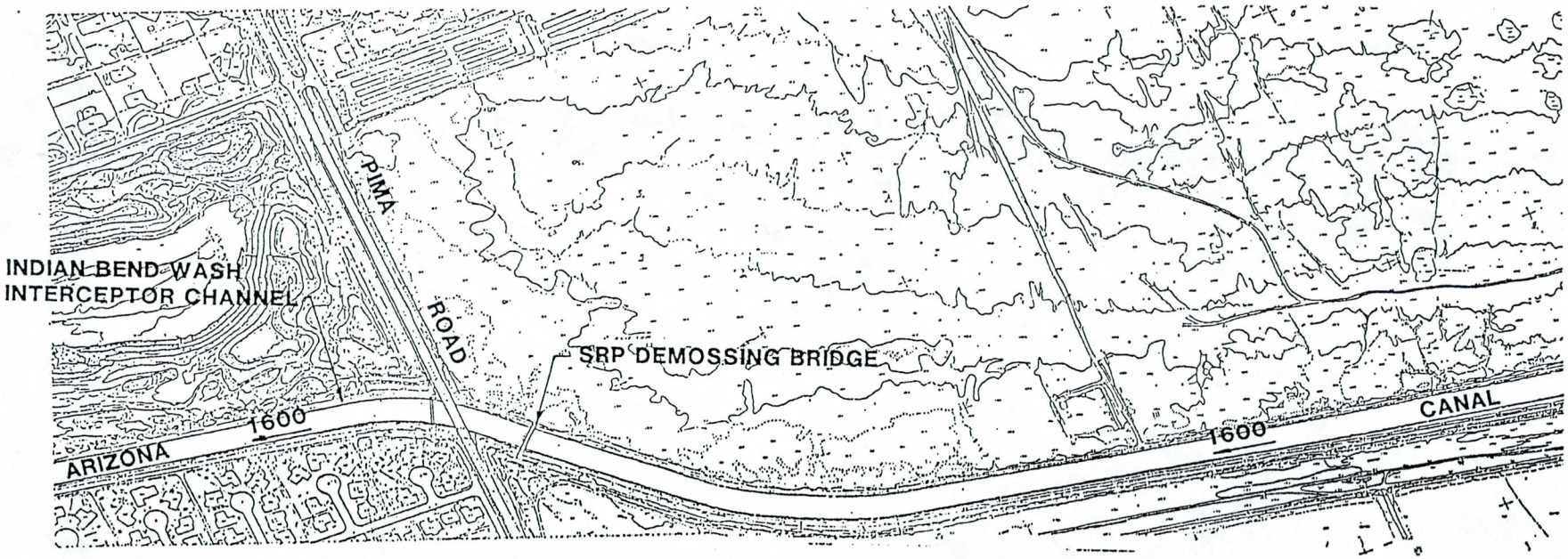


SRP - Supplied model
SRP Operating Conditions

PERATING FLOW

ONS

ARIZONA CANAL (UNLINED)



LEGEND

1600 FLOW,CFS,SRP OPERATING FLOW

——— FLOW PATH

APPENDIX A

HEC-2 COMPUTER MODEL
SRP SUPPLIED MODEL
SRP OPERATING CONDITIONS
ARIZONA CANAL (UNLINED)

```
**************************************************
*  WATER SURFACE PROFILES                        *
*  VERSION OF SEPTEMBER 1988                     *
*                                                *
*                                                *
*  RUN DATE     7/18/90    TIME    14:35:50      *
**************************************************
```


```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  THE HYDROLOGIC ENGINEERING CENTER   *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616             *
*  (916) 756-1104                      *
****************************************
```


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

END OF BANNER

THIS RUN EXECUTED 7/18/90 14:35:50

****
HEC2 RELEASE DATED SEPT 88

****

```
T1       ARIZONA CANAL LAT 1.9 TO EVGN
T2      NORMAL FLOW @ NORMAL FOREBAY
T3

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0        2                                                          284.18

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      1         0        -1


NC    0.022     0.022     0.020
QT        1      1600
          INDIAN BEND SYPHON RADIAL GATES - OUTLET FOR SCOTTSDALE WTP
X1    25870         4        20        76         1         1         1
GR   287.38        20    277.38        20    277.38        76    287.38        76

          INLET  INDIAN BEND SYPHON U/S
X1    25884         0         0         0        14        14        14

NC    0.022     0.020     0.020
X1    25896         6         8        88        12        12        12
GR   287.38         0    287.38         8    275.28        20    275.28        76    287.38        88
GR   287.38        96

X1    26441         4         0        96       545       545       545
X2              285.77
GR   287.40         0    274.80        12    275.20        85    286.80        96

X1    27041         4         0      96.5       600       600       600
X2              285.77
GR   287.80         0    274.90        13    275.20        84    287.30      96.5

NC                                     0.3       0.5
          HAYDEN BRIDGE D/S
X1    27076         8       7.5      93.8        35        35        35
X2                                  289.18    290.18
GR   289.18       7.5    277.18        15    277.18        50    289.18        50    289.18      51.3
GR   277.18      51.3    277.18      86.3    289.18      93.8
```

HAYDEN BRIDGE U/S

X1	27165	8	7.5	93.8	89	89	89			
X2				289.30	290.30					
GR	289.30	7.5	276.84	15	276.84	50	289.30	50	289.30	51.3
GR	276.84	51.3	276.84	86.3	289.30	93.8				
NC	0.022	0.022	0.020	0.1	0.3					
X1	27240	7	0	97	75	75	75			
X2		282.5								
GR	289.6	0	282.5	9	277	15	277.2	50	277.8	84
GR	282.5	90	287.2	97						
X1	27765	7	0	93	525	525	525			
X2		282.9								
GR	289.3	0	282.9	7	277.1	18	277.3	48	277.5	79
GR	282.9	87	287.6	93						
X1	28365	7	0	94	600	600	600			
X2		283.1								
GR	288.9	0	283.1	7	278.3	15	277.3	47	276.9	78
GR	283.1	88	287	94						
X1	28965	7	0	87	600	600	600			
X2		283.5								
GR	289.1	0	283.5	6	277.9	15	276.8	43	277.4	72
GR	283.5	80	286.7	87						
X1	29565	7	0	93	600	600	600			
X2		283.7								
GR	288.8	0	283.7	7	277	16	276.9	45	277.7	74
GR	283.7	84	289.3	93						
X1	30165	7	0	90	600	600	600			
X2		283.7								
GR	288.4	0	283.7	6	278.3	15	276.5	45	277.7	75
GR	283.7	80	288.2	90						
X1	30765	7	0	93	600	600	600			
X2		284								
GR	289.8	0	284	6	278.7	14	278	45	278.2	76
GR	284	83	289.9	93						

PIMA INTERCEPTOR SPILLWAY D/S END

X1	31036	4	0	93	271	271	271			
GR	290.3	0	278.70	14	278.30	77	289.42	93		
X1	31143	4	0	93	107	107	107			
GR	290.49	0	278.60	14	278.40	78	285.79	93		

X1	31164	4	0	94	21	21	21			
GR	290.53	0	278.60	14	278.60	79	285.42	94		
X1	31365	7	0	94	201	201	201			
X2		284.2								
GR	290.9	0	284.2	7	278.5	16	278.2	48	278.8	80
GR	284.2	85	285.5	94						
X1	31965	7	0	93	600	600	600			
X2		284.4								
GR	290.8	0	284.4	8	279.1	16	277.6	45	277.7	74
GR	284.4	80	285.8	93						
X1	32288	4	0	93	323	323	323			
GR	290.4	0	279.20	16	278.77	75	285.93	93		
X1	32313	4	0	94	25	25	25			
GR	290.24	0	279.25	16	278.85	77	286.93	94		
X1	32375	4	0	95	62	62	62			
GR	290.13	0	279.30	15	279.06	78	289.42	95		
	PIMA INTERCEPTOR SPILLWAY U/S END									
X1	32425	4	0	96	50	50	50			
GR	290.05	0	279.50	15	279.23	80	290.55	96		
	FOOT BRIDGE D/S									
X1	32532	4	2	97	107	107	107			
X2				289.88	290.88					
GR	289.88	2	279.58	15	279.58	83	289.88	97		
	FOOT BRIDGE U/S									
X1	32538	0	0	0	6	6	6			
X2				289.88	290.88					
X1	32565	7	0	100	27	27	27			
X2		284.9								
GR	291.2	0	284.9	9	279.2	16	278.6	48	278	81
GR	284.9	91	290.2	100						
X1	32570	4	0	100	5	5	5			
GR	291.20	0	279.40	15.7	279.40	83.8	290.20	100		
NC				0.3	0.5					
	PIMA ROAD BRIDGE D/S									
X1	32590	12	6.2	93.8	20	20	20			
X2				289.80	290.80					
GR	289.80	6.2	279.40	15.7	279.40	34	289.80	34	289.80	35.3
GR	279.40	35.3	279.40	65	289.80	65	289.80	66.3	279.40	66.3
GR	279.40	83.8	289.80	93.8						

PIMA ROAD BRIDGE U/S

X1	32622	12	6.2	93.8	33	33	33			
X2				290.20	291.20					
GR	290.20	6.2	279.60	15.7	279.60	34	290.20	34	290.20	35.3
GR	279.60	35.3	279.60	65	290.20	65	290.20	66.3	279.60	66.3
GR	279.60	83.8	290.20	93.8						
NC				0.1	0.3					
X1	32642	4	0	100	20	20	20			
GR	291.28	0	279.60	15.7	279.60	83.8	290.34	100		
X1	32647	9	0	100	5	5	5			
X2		284.24								
GR	291.28	0	284.24	8	281.80	10	280.30	14	279.27	46
GR	278.70	78	281.80	84	284.24	87	290.34	100		

DEMOSSING BRIDGE D/S

X1	32802	8	5	96	155	155	155			
X2				287.65	288.65					
GR	287.65	5	279.11	5	279.11	50	287.65	50	287.65	51
GR	279.11	51	279.11	96	287.65	96				

DEMOSSING BRIDGE U/S

X1	32814	0	0	0	12	12	12			
X2				287.65	288.65					
X1	33422	9	0	92	608	608	608			
X2		284.24								
GR	291.59	0	284.24	8	281.64	10	280.10	16	278.80	46
GR	279.35	76	280.50	80	284.24	82	291.15	92		
X1	34022	9	0	95	600	600	600			
X2		284.25								
GR	291.53	0	284.25	8	281.90	15	279.78	19	279.10	50
GR	279.87	82	281	86	284.25	88	288.50	95		
X1	34189	9	0	95	167	167	167			
GR	291.53	0	284.25	8	281.90	15	279.78	19	279.10	50
GR	279.87	82	281	86	284.25	88	285.47	95		
X1	34622	9	0	95	433	433	433			
GR	292.83	0	284.25	9	282.30	12	280.72	21	279.05	51
GR	279.60	82	282.15	86	284.25	87	289.33	95		
X1	35139	9	0	90	517	517	517			
GR	293.28	0	284.60	11	281.70	13	280.20	19	279.20	49
GR	279.84	79	281.35	83	284.60	86	287.66	90		

X1	35222	9	0	90	83	83	83			
X2		284.60								
GR	293.28	0	284.60	11	281.70	13	280.20	19	279.20	49
GR	279.84	79	281.35	83	284.60	86	287.66	90		
X1	35822	7	0	90	600	600	600			
GR	293.41	0	282.10	12	280.95	19	280	49	280	80
GR	282.25	84	288.30	90						
X1	36017	7	0	90	195	195	195			
GR	293.41	0	282.10	12	280.95	19	280	49	280	80
GR	282.25	84	286.90	90						
X1	36422	9	0	95	405	405	405			
X2		284.90								
GR	293.50	0	284.90	9	283	12	281.55	19	280.10	49
GR	280.30	78	281.90	82	284.90	86	291.95	95		
X1	37022	9	0	95	600	600	600			
X2		285.37								
GR	293.68	0	285.37	10	282.37	13	281.42	19	280.70	49
GR	281.30	78	284	84	285.37	86	293.36	95		
X1	37547	7	0	87	525	525	525			
GR	293.72	0	283	11	282.08	16	281.35	45	281.64	74
GR	283.70	81	286.64	87						
X1	37622	7	0	87	75	75	75			
GR	293.72	0	283	11	282.08	16	281.35	45	281.64	74
GR	283.70	81	289.78	87						
X1	38167	7	0	90	545	545	545			
GR	293.16	0	284.42	5.5	283.12	8	281.92	38	282	77
GR	282.47	80	287.75	90						
X1	38222	7	0	90	55	55	55			
GR	293.16	0	284.42	5.5	283.12	8	281.92	38	282	77
GR	282.47	80	288.14	90						
X1	38822	8	0	92	600	600	600			
GR	293.16	0	285.30	6	286	7	282.87	16	281	40
GR	281	67	284.80	75	292.24	92				
X1	39422	9	0	89	600	600	600			
X2		285.70								
GR	294.27	0	285.70	9.5	284.51	11.5	283.14	15	281.73	41
GR	282.25	67	283.76	77	285.70	80	293.67	89		

X1	40022	6	0	89	600	600	600			
GR	293.78	0	285.86	11	282.66	42	281.73	66	283.84	81
GR	288.27	89								
X1	40037	8	0	89	15	15	15			
X2		286								
GR	293.78	0	286	7	285.86	11	282.66	42	281.73	66
GR	283.84	81	286	85	288.27	89				
X1	40622	8	0	86	585	585	585			
X2		286.07								
GR	295	0	286.07	7	284.60	13	282.50	39	282.40	67
GR	283.65	75	286.07	79	291.87	86				
X1	41222	8	0	88	600	600	600			
X2		286.07								
GR	294.38	0	286.07	7	284.45	10	283.64	42	282.87	70
GR	284	76	286.07	83	289.32	88				
X1	41253	6	0	88	31	31	31			
GR	294.38	0	284.45	10	283.64	42	282.87	70	284	76
GR	288.83	88								
X1	41822	8	0	87	569	569	569			
X2		286.85								
GR	294.57	0	286.85	8	284.7	14	283.17	42	283.72	66
GR	284.37	73	286.85	78	291.47	87				
X1	42422	8	0	89	600	600	600			
X2		286.85								
GR	295.27	0	286.85	7	284.38	14	283.20	44	283.28	66
GR	285	71	286.85	76	293.51	89				
X1	43022	9	0	92	600	600	600			
X2		287.25								
GR	295.50	0	287.25	7	286.04	9	284.90	15	284.35	46
GR	283.85	74	285.30	80	287.25	84	294.25	92		
X1	43622	9	0	89	600	600	600			
X2		287.25								
GR	295.05	0	287.25	6	287	7	285.10	13	283.85	41
GR	283.50	71	285.15	75	287.25	79	294.40	89		
X1	43847	7	0	89	225	225	225			
GR	295.05	0	287	7	285.10	13	283.85	41	283.50	71
GR	285.15	75	289.50	89						
X1	43947	9	0	88	100	100	100			
X2		289								
GR	295.23	0	289	8	286.10	11	285.40	14	284.60	40
GR	284.20	69	285.60	75	289	80	293.85	88		

X1	44027	4	0	88	80	80	80			
GR	295.23	0	283.30	13	283.30	67	293.85	88		
NC				0.3	0.5					
	ALMA SCHOOL BRIDGE D/S									
X1	44047	12	5	82	20	20	20			
X2				292.90	293.90					
GR	292.90	5	283.30	13	283.30	26	292.90	26	292.90	27
GR	283.30	27	283.30	62	292.90	62	292.90	63	283.30	63
GR	283.30	67	292.90	82						
	ALMA SCHOOL BRIDGE U/S									
X1	44087	0	0	0	40	40	40			
X2				292.90	293.90					
NC				0.1	0.3					
X1	44107	4	0	87	20	20	20			
GR	295.90	0	283.30	13	283.30	67	293.40	87		
X1	44640	6	0	87	533	533	533			
X2		290.40								
GR	295.90	0	290.40	7	285.10	12	284.40	70	290.40	81
GR	293.40	87								
X1	45240	6	0	89	600	600	600			
X2		289.50								
GR	296.20	0	289.50	10	285.00	21	284.70	73	289.80	83
GR	294.10	89								
X1	45540	6	0	87	600	600	600			
X2		290.50								
GR	296.80	0	290.50	6	285.00	13	285.40	73	290.50	84
GR	294.70	87								
X1	46440	6	0	92	600	600	600			
X2		291.60								
GR	297.40	0	291.60	8	286.30	17	285.30	74	291.60	83
GR	296.40	92								
X1	47040	6	0	93	600	600	600			
X2		290.50								
GR	297.30	0	290.50	3	286.60	11	285.90	75	290.50	87
GR	295.00	93								
X1	47640	6	0	91	600	600	600			
X2		290.20								
GR	297.00	0	290.20	10	286.00	21	286.00	76	290.20	84
GR	295.10	91								

X1	48240	6	0	95	600	600	600			
X2		290.00								
GR	297.80	0	290.00	8	286.50	19	286.40	79	290.00	86
GR	297.30	95								
X1	48840	6	0	92	600	600	600			
X2		291.90								
GR	298.60	0	291.90	10	287.40	17	286.50	76	291.90	84
GR	297.70	92								
X1	49440	6	0	94	600	600	600			
X2		292.20								
GR	298.70	0	292.20	9	287.90	15	287.50	75	292.20	84
GR	298.10	94								
X1	50040	6	0	95	600	600	600			
X2		291.40								
GR	299.10	0	291.40	6	288.50	12	288.20	74	291.40	84
GR	298.90	95								
X1	50640	6	0	91	600	600	600			
X2		293.60								
GR	299.30	0	293.60	7	288.80	12	288.00	75	293.60	83
GR	298.70	91								
X1	51240	6	0	95	600	600	600			
X2		293.80								
GR	299.30	0	293.80	8	289.30	12	289.00	78	293.80	83
GR	299.00	95								
X1	51840	6	0	94	600	600	600			
X2		293.40								
GR	299.60	0	293.40	5	289.00	10	288.80	77	293.40	84
GR	300.10	94								
X1	52440	6	0	91	600	600	600			
X2		293.30								
GR	300.10	0	293.30	6	289.50	12	289.20	74	293.30	81
GR	300.30	91								
X1	53040	6	0	95	600	600	600			
X2		295.10								
GR	300.00	0	295.10	7	289.70	14	288.50	76	295.10	83
GR	299.50	95								
X1	53640	6	0	90	600	600	600			
X2		292.90								
GR	300.40	0	292.90	7	289.10	16	288.70	76	292.90	83
GR	299.40	90								

X1	54240	6	0	90	600	600	600			
X2		295.80								
GR	300.60	0	295.80	7	289.30	17	288.90	76	295.80	84
GR	298.90	90								
X1	54840	6	0	97	600	600	600			
X2		293.10								
GR	300.70	0	293.10	6	289.30	16	289.40	75	293.10	81
GR	298.80	97								
X1	55440	6	0	93	600	600	600			
X2		295.60								
GR	301.40	0	295.60	8	290.10	15	291.80	81	295.60	87
GR	299.60	93								
X1	56040	6	0	92	600	600	600			
X2		294.90								
GR	301.30	0	294.90	8	289.80	14	289.40	72	294.90	85
GR	300.10	92								
	MEASURING BRIDGE									
X1	56640	6	0	95	600	600	600			
X2		294.00								
GR	301.50	0	294.00	10	289.60	20	289.20	72	294.00	83
GR	300.10	95								
X1	57240	6	0	90	600	600	600			
X2		295.20								
GR	301.30	0	295.20	8	289.70	22	289.20	76	295.20	85
GR	299.90	90								
X1	57840	6	0	96	600	600	600			
X2		296.00								
GR	301.40	0	296.00	7	291.00	15	289.60	79	296.00	92
GR	300.50	96								
X1	58440	6	0	95	600	600	600			
X2		296.30								
GR	301.60	0	296.30	8	291.60	17	291.80	76	296.30	91
GR	299.50	95								
	FOOT BRIDGE D/S									
X1	58793	0	0	0	353	353	353			
X2				298.90	299.90					
	FOOT BRIDGE U/S									
X1	58797	0	0	0	4	4	4			
X2				298.90	299.90					

X1	59023	20	0	84	226	226	226			
GR	300.16	0	291.13	0	291.16	16	300.16	16	300.16	17
GR	291.13	17	291.13	33	300.16	33	300.16	34	291.13	34
GR	291.13	50	300.16	50	300.16	51	291.13	51	291.13	67
GR	300.16	67	300.16	68	291.13	68	291.13	84	300.16	84

EVERGREEN RADIAL GATES

X1	59040	0	0	0	17	17	17

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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

#SECNO 25870.000
INDIAN BEND SYPHON RADIAL GATES - OUTLET FOR SCOTTSDALE WTP

25870.00	6.80	284.18	.00	284.18	284.45	.27	.00	.00	287.38
1600.	0.	1600.	0.	0.	381.	0.	0.	0.	287.38
.00	.00	4.20	.00	.000	.020	.000	.000	277.38	20.00
.000332	1.	1.	1.	0	0	0	.00	56.00	76.00

#SECNO 25884.000
INLET INDIAN BEND SYPHON U/S

25884.00	6.80	284.18	.00	.00	284.46	.27	.00	.00	287.38
1600.	0.	1600.	0.	0.	381.	0.	0.	0.	287.38
.00	.00	4.20	.00	.000	.020	.000	.000	277.38	20.00
.000331	14.	14.	14.	0	0	0	.00	56.00	76.00

#SECNO 25896.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

25896.00	9.07	284.35	.00	.00	284.46	.11	.00	.00	287.38
1600.	0.	1600.	0.	0.	589.	0.	0.	0.	287.38
.00	.00	2.72	.00	.000	.020	.000	.000	275.28	11.01
.000096	12.	12.	12.	2	0	0	.00	73.98	84.99

#SECNO 26441.000

26441.00	9.63	284.43	.00	285.77	284.50	.07	.04	.00	287.40
1600.	0.	1600.	0.	0.	773.	0.	9.	1.	286.80
.08	.00	2.07	.00	.000	.020	.000	.000	274.80	2.83
.000050	545.	545.	545.	2	0	0	.00	90.93	93.75

#SECNO 27041.000

27041.00	9.56	284.46	.00	285.77	284.53	.07	.03	.00	287.80
1600.	0.	1600.	0.	0.	759.	0.	19.	2.	287.30
.15	.00	2.11	.00	.000	.020	.000	.000	274.90	3.36
.000052	600.	600.	600.	1	0	0	.00	90.21	93.57

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

CCHV= .300 CEHV= .500
#SECNO 27076.000

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 290.18 MAX ELLC= 289.18

HAYDEN BRIDGE D/S

27076.00	7.25	284.43	.00	.00	284.56	.14	.00	.03	289.18
1600.	0.	1600.	0.	0.	540.	0.	20.	2.	289.18
.16	.00	2.96	.00	.000	.020	.000	.000	277.18	10.47
.000171	35.	35.	35.	2	0	0	.00	79.06	90.83

#SECNO 27165.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 290.30 MAX ELLC= 289.30

HAYDEN BRIDGE U/S

27165.00	7.62	284.46	.00	.00	284.58	.12	.01	.00	289.30
1600.	0.	1600.	0.	0.	568.	0.	21.	3.	289.30
.17	.00	2.82	.00	.000	.020	.000	.000	276.84	10.41
.000147	89.	89.	89.	2	0	0	.00	79.17	90.89

CCHV= .100 CEHV= .300
#SECNO 27240.000

27240.00	7.47	284.47	.00	282.50	284.60	.13	.01	.00	289.60
1600.	0.	1600.	0.	0.	555.	0.	22.	3.	287.20
.17	.00	2.88	.00	.000	.020	.000	.000	277.00	6.50
.000136	75.	75.	75.	0	0	0	.00	86.44	92.94

#SECNO 27765.000

27765.00	7.43	284.53	.00	282.90	284.67	.14	.08	.00	289.30
1600.	0.	1600.	0.	0.	529.	0.	28.	4.	287.60
.22	.00	3.02	.00	.000	.020	.000	.000	277.10	5.21
.000152	525.	525.	525.	0	0	0	.00	83.89	89.09

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 28365.000									
28365.00	7.73	284.63	.00	283.10	284.77	.14	.09	.00	288.90
1600.	0.	1600.	0.	0.	532.	0.	36.	5.	287.00
.28	.00	3.01	.00	.000	.020	.000	.000	276.90	5.17
.000152	600.	600.	600.	0	0	0	.00	85.17	90.34
#SECNO 28965.000									
28965.00	7.91	284.71	.00	283.50	284.87	.16	.10	.01	289.10
1600.	0.	1600.	0.	0.	500.	0.	43.	6.	286.70
.33	.00	3.20	.00	.000	.020	.000	.000	276.80	4.70
.000168	600.	600.	600.	0	0	0	.00	77.96	82.66
#SECNO 29565.000									
29565.00	7.92	284.82	.00	283.70	284.96	.14	.09	.00	288.80
1600.	0.	1600.	0.	0.	529.	0.	50.	7.	289.30
.38	.00	3.02	.00	.000	.020	.000	.000	276.90	5.47
.000145	600.	600.	600.	1	0	0	.00	80.31	85.79
#SECNO 30165.000									
30165.00	8.40	284.90	.00	283.70	285.05	.15	.09	.00	288.40
1600.	0.	1600.	0.	0.	519.	0.	57.	8.	288.20
.44	.00	3.08	.00	.000	.020	.000	.000	276.50	4.45
.000150	600.	600.	600.	0	0	0	.00	78.25	82.70
#SECNO 30765.000									
30765.00	6.99	284.99	.00	284.00	285.16	.17	.10	.01	289.80
1600.	0.	1600.	0.	0.	477.	0.	64.	9.	289.90
.49	.00	3.35	.00	.000	.020	.000	.000	278.00	4.97
.000201	600.	600.	600.	0	0	0	.00	79.71	84.68
#SECNO 31036.000									
PIMA INTERCEPTOR SPILLWAY D/S END									
31036.00	6.74	285.04	.00	.00	285.22	.18	.06	.00	290.30
1600.	0.	1600.	0.	0.	469.	0.	67.	10.	289.42
.51	.00	3.41	.00	.000	.020	.000	.000	278.30	6.35
.000216	271.	271.	271.	0	0	0	.00	80.34	86.69

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 31143.000									
31143.00	6.68	285.08	.00	.00	285.25	.17	.02	.00	290.49
1600.	0.	1600.	0.	0.	490.	0.	68.	10.	285.79
.52	.00	3.26	.00	.000	.020	.000	.000	278.40	6.38
.000198	107.	107.	107.	1	0	0	.00	85.16	91.54
#SECNO 31164.000									
31164.00	6.49	285.09	.00	.00	285.25	.16	.00	.00	290.53
1600.	0.	1600.	0.	0.	492.	0.	68.	10.	285.42
.52	.00	3.25	.00	.000	.020	.000	.000	278.60	6.39
.000200	21.	21.	21.	0	0	0	.00	86.87	93.26
#SECNO 31365.000									
31365.00	6.92	285.12	.00	284.20	285.29	.17	.04	.00	290.90
1600.	0.	1600.	0.	0.	484.	0.	71.	10.	285.50
.54	.00	3.30	.00	.000	.020	.000	.000	278.20	6.03
.000209	201.	201.	201.	0	0	0	.00	85.38	91.41
#SECNO 31965.000									
31965.00	7.64	285.24	.00	284.40	285.42	.17	.12	.00	290.80
1600.	0.	1600.	0.	0.	477.	0.	77.	12.	285.80
.59	.00	3.35	.00	.000	.020	.000	.000	277.60	6.94
.000207	600.	600.	600.	0	0	0	.00	80.92	87.86
#SECNO 32288.000									
32288.00	6.54	285.31	.00	.00	285.50	.19	.07	.01	290.40
1600.	0.	1600.	0.	0.	454.	0.	81.	12.	285.93
.61	.00	3.53	.00	.000	.020	.000	.000	278.77	7.27
.000250	323.	323.	323.	0	0	0	.00	84.18	91.45
#SECNO 32313.000									
32313.00	6.46	285.31	.00	.00	285.50	.19	.01	.00	290.24
1600.	0.	1600.	0.	0.	453.	0.	81.	12.	286.93
.62	.00	3.54	.00	.000	.020	.000	.000	278.85	7.18
.000250	25.	25.	25.	0	0	0	.00	83.42	90.59

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 32375.000									
32375.00	6.26	285.32	.00	.00	285.52	.20	.02	.00	290.13
1600.	0.	1600.	0.	0.	445.	0.	82.	12.	289.42
.62	.00	3.60	.00	.000	.020	.000	.000	279.06	6.65
.000260	62.	62.	62.	0	0	0	.00	81.63	88.28
*SECNO 32425.000									
PIMA INTERCEPTOR SPILLWAY U/S END									
32425.00	6.10	285.33	.00	.00	285.54	.21	.01	.00	290.05
1600.	0.	1600.	0.	0.	439.	0.	82.	12.	290.55
.62	.00	3.65	.00	.000	.020	.000	.000	279.23	6.70
.000273	50.	50.	50.	0	0	0	.00	81.92	88.63
*SECNO 32532.000									
3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 290.88 MAX ELLC= 289.88									
FOOT BRIDGE D/S									
32532.00	5.78	285.36	.00	.00	285.57	.21	.03	.00	289.88
1600.	0.	1600.	0.	0.	437.	0.	83.	13.	289.88
.63	.00	3.66	.00	.000	.020	.000	.000	279.58	7.71
.000283	107.	107.	107.	0	0	0	.00	83.15	90.86
*SECNO 32538.000									
3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 290.88 MAX ELLC= 289.88									
FOOT BRIDGE U/S									
32538.00	5.78	285.36	.00	.00	285.57	.21	.00	.00	289.88
1600.	0.	1600.	0.	0.	437.	0.	83.	13.	289.88
.63	.00	3.66	.00	.000	.020	.000	.000	279.58	7.70
.000283	6.	6.	6.	0	0	0	.00	83.15	90.86
*SECNO 32565.000									
32565.00	7.43	285.43	.00	284.90	285.58	.15	.01	.01	291.20
1600.	0.	1600.	0.	0.	508.	0.	84.	13.	290.20
.63	.00	3.15	.00	.000	.020	.000	.000	278.00	8.25
.000174	27.	27.	27.	2	0	0	.00	83.65	91.89

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 32570.000									
32570.00	6.00	285.40	.00	.00	285.59	.19	.00	.01	291.20
1600.	0.	1600.	0.	0.	460.	0.	84.	13.	290.20
.64	.00	3.48	.00	.000	.020	.000	.000	279.40	7.71
.000245	5.	5.	5.	2	0	0	.00	85.09	92.81

CCHV= .300 CEHV= .500
#SECNO 32590.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 290.80 MAX ELLC= 289.80

PIMA ROAD BRIDGE D/S

32590.00	6.00	285.40	.00	.00	285.61	.22	.01	.02	289.80
1600.	0.	1600.	0.	0.	427.	0.	84.	13.	289.80
.64	.00	3.75	.00	.000	.020	.000	.000	279.40	10.22
.000397	20.	20.	20.	1	0	0	.00	76.75	89.57

#SECNO 32622.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 291.20 MAX ELLC= 290.20

PIMA ROAD BRIDGE U/S

32622.00	5.80	285.40	.00	.00	285.64	.23	.01	.01	290.20
1600.	0.	1600.	0.	0.	411.	0.	84.	13.	290.20
.64	.00	3.89	.00	.000	.020	.000	.000	279.60	10.50
.000441	33.	33.	33.	0	0	0	.00	76.18	89.28

CCHV= .100 CEHV= .300
#SECNO 32642.000

32642.00	5.85	285.45	.00	.00	285.65	.20	.01	.00	291.28
1600.	0.	1600.	0.	0.	447.	0.	84.	13.	290.34
.64	.00	3.58	.00	.000	.020	.000	.000	279.60	7.84
.000268	20.	20.	20.	2	0	0	.00	84.78	92.62

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 32647.000

32647.00	6.75	285.45	.00	284.24	285.65	.20	.00	.00	291.28
1600.	0.	1600.	0.	0.	451.	0.	84.	13.	290.34
.64	.00	3.54	.00	.000	.020	.000	.000	278.70	6.63
.000252	5.	5.	5.	0	0	0	.00	82.95	89.58

#SECNO 32802.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 288.65 MAX ELLC= 287.65

DEMOSSING BRIDGE D/S

32802.00	6.46	285.57	.00	.00	285.69	.12	.03	.01	287.65
1600.	0.	1600.	0.	0.	581.	0.	86.	13.	287.65
.66	.00	2.75	.00	.000	.020	.000	.000	279.11	5.00
.000160	155.	155.	155.	2	0	0	.00	90.00	96.00

#SECNO 32814.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 288.65 MAX ELLC= 287.65

DEMOSSING BRIDGE U/S

32814.00	6.46	285.57	.00	.00	285.69	.12	.00	.00	287.65
1600.	0.	1600.	0.	0.	581.	0.	86.	13.	287.65
.66	.00	2.75	.00	.000	.020	.000	.000	279.11	5.00
.000160	12.	12.	12.	0	0	0	.00	90.00	96.00

#SECNO 33422.000

33422.00	6.83	285.63	.00	284.24	285.83	.20	.12	.02	291.59
1600.	0.	1600.	0.	0.	448.	0.	94.	14.	291.15
.71	.00	3.57	.00	.000	.020	.000	.000	278.80	6.48
.000242	608.	608.	608.	2	0	0	.00	77.53	84.01

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 34022.000									
34022.00	6.69	285.79	.00	284.25	285.97	.18	.14	.00	291.53
1600.	0.	1600.	0.	0.	469.	0.	100.	15.	288.50
.75	.00	3.41	.00	.000	.020	.000	.000	279.10	6.31
.000228	600.	600.	600.	2	0	0	.00	84.23	90.54
*SECNO 34189.000									
3280 CROSS SECTION	34189.00	EXTENDED		.36 FEET					
34189.00	6.74	285.84	.00	.00	286.01	.17	.04	.00	291.53
1600.	0.	1600.	0.	0.	477.	0.	102.	16.	285.47
.77	.00	3.36	.00	.000	.020	.000	.000	279.10	6.26
.000230	167.	167.	167.	0	0	0	.00	88.74	95.00
*SECNO 34622.000									
34622.00	6.88	285.93	.00	.00	286.12	.19	.10	.00	292.83
1600.	0.	1600.	0.	0.	461.	0.	106.	17.	289.33
.80	.00	3.47	.00	.000	.020	.000	.000	279.05	7.23
.000234	433.	433.	433.	0	0	0	.00	82.42	89.65
*SECNO 35139.000									
35139.00	6.85	286.05	.00	.00	286.24	.19	.12	.00	293.28
1600.	0.	1600.	0.	0.	456.	0.	112.	18.	287.66
.84	.00	3.51	.00	.000	.020	.000	.000	279.20	9.16
.000230	517.	517.	517.	0	0	0	.00	78.73	87.89
*SECNO 35222.000									
35222.00	6.87	286.07	.00	284.60	286.26	.19	.02	.00	293.28
1600.	0.	1600.	0.	0.	458.	0.	113.	18.	287.66
.85	.00	3.50	.00	.000	.020	.000	.000	279.20	9.14
.000228	83.	83.	83.	0	0	0	.00	78.77	87.92
*SECNO 35822.000									
35822.00	6.20	286.20	.00	.00	286.41	.21	.15	.01	293.41
1600.	0.	1600.	0.	0.	434.	0.	119.	19.	288.30
.90	.00	3.69	.00	.000	.020	.000	.000	280.00	7.65
.000277	600.	600.	600.	0	0	0	.00	80.27	87.92

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 36017.000									
36017.00	6.26	286.26	.00	.00	286.47	.20	.05	.00	293.41
1600.	0.	1600.	0.	0.	441.	0.	121.	19.	286.90
.91	.00	3.63	.00	.000	.020	.000	.000	280.00	7.59
.000268	195.	195.	195.	1	0	0	.00	81.58	89.17
*SECNO 36422.000									
36422.00	6.26	286.36	.00	284.90	286.59	.23	.12	.01	293.50
1600.	0.	1600.	0.	0.	417.	0.	125.	20.	291.95
.94	.00	3.84	.00	.000	.020	.000	.000	280.10	7.46
.000313	405.	405.	405.	0	0	0	.00	80.42	87.88
*SECNO 37022.000									
37022.00	5.85	286.55	.00	285.37	286.81	.26	.21	.01	293.68
1600.	0.	1600.	0.	0.	389.	0.	130.	21.	293.36
.98	.00	4.11	.00	.000	.020	.000	.000	280.70	8.60
.000383	600.	600.	600.	0	0	0	.00	78.72	87.31
*SECNO 37547.000									
3280 CROSS SECTION 37547.00 EXTENDED .10 FEET									
37547.00	5.39	286.74	.00	.00	287.05	.30	.23	.01	293.72
1600.	0.	1600.	0.	0.	364.	0.	135.	22.	286.64
1.01	.00	4.40	.00	.000	.020	.000	.000	281.35	7.17
.000485	525.	525.	525.	1	0	0	.00	79.83	87.00
*SECNO 37622.000									
37622.00	5.43	286.78	.00	.00	287.08	.30	.04	.00	293.72
1600.	0.	1600.	0.	0.	362.	0.	135.	22.	289.78
1.02	.00	4.42	.00	.000	.020	.000	.000	281.35	7.12
.000474	75.	75.	75.	0	0	0	.00	76.91	84.04
*SECNO 38167.000									
38167.00	5.14	287.06	.00	.00	287.34	.28	.25	.00	293.16
1600.	0.	1600.	0.	0.	380.	0.	140.	23.	287.75
1.05	.00	4.21	.00	.000	.020	.000	.000	281.92	3.84
.000455	545.	545.	545.	2	0	0	.00	84.86	88.70

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 38222.000									
38222.00	5.17	287.09	.00	.00	287.36	.27	.02	.00	293.16
1600.	0.	1600.	0.	0.	381.	0.	141.	23.	288.14
1.06	.00	4.20	.00	.000	.020	.000	.000	281.92	3.82
.000449	55.	55.	55.	0	0	0	.00	84.32	88.15
*SECNO 38822.000									
38822.00	6.34	287.34	.00	.00	287.63	.28	.26	.00	293.16
1600.	0.	1600.	0.	0.	374.	0.	146.	24.	292.24
1.10	.00	4.28	.00	.000	.020	.000	.000	281.00	4.43
.000421	600.	600.	600.	1	0	0	.00	76.40	80.83
*SECNO 39422.000									
39422.00	5.86	287.59	.00	285.70	287.90	.31	.27	.01	294.27
1600.	0.	1600.	0.	0.	357.	0.	151.	25.	293.67
1.13	.00	4.49	.00	.000	.020	.000	.000	281.73	7.40
.000476	600.	600.	600.	1	0	0	.00	74.75	82.14
*SECNO 40022.000									
40022.00	6.16	287.89	.00	.00	288.23	.34	.32	.01	293.78
1600.	0.	1600.	0.	0.	343.	0.	156.	26.	288.27
1.17	.00	4.66	.00	.000	.020	.000	.000	281.73	8.18
.000584	600.	600.	600.	2	0	0	.00	80.13	88.31
*SECNO 40037.000									
40037.00	6.18	287.91	.00	286.00	288.24	.32	.01	.00	293.78
1600.	0.	1600.	0.	0.	352.	0.	156.	27.	288.27
1.17	.00	4.55	.00	.000	.020	.000	.000	281.73	5.29
.000568	15.	15.	15.	1	0	0	.00	83.07	88.36
*SECNO 40622.000									
40622.00	5.84	288.24	.00	286.07	288.54	.30	.30	.00	295.00
1600.	0.	1600.	0.	0.	362.	0.	161.	28.	291.87
1.21	.00	4.42	.00	.000	.020	.000	.000	282.40	5.30
.000468	585.	585.	585.	1	0	0	.00	76.33	81.62

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 41222.000									
41222.00	5.66	288.53	.00	286.07	288.83	.30	.29	.00	294.38
1600.	0.	1600.	0.	0.	364.	0.	166.	29.	289.32
1.24	.00	4.40	.00	.000	.020	.000	.000	282.87	4.92
.000500	600.	600.	600.	1	0	0	.00	81.88	86.80
*SECNO 41253.000									
41253.00	5.67	288.54	.00	.00	288.85	.31	.02	.00	294.38
1600.	0.	1600.	0.	0.	357.	0.	166.	29.	288.83
1.25	.00	4.48	.00	.000	.020	.000	.000	282.87	5.88
.000530	31.	31.	31.	0	0	0	.00	81.41	87.29
*SECNO 41822.000									
41822.00	5.66	288.83	.00	286.85	289.17	.34	.31	.01	294.57
1600.	0.	1600.	0.	0.	340.	0.	170.	30.	291.47
1.28	.00	4.70	.00	.000	.020	.000	.000	283.17	5.95
.000565	569.	569.	569.	0	0	0	.00	75.91	81.86
*SECNO 42422.000									
42422.00	5.98	289.18	.00	286.85	289.47	.30	.30	.00	295.27
1600.	0.	1600.	0.	0.	366.	0.	175.	31.	293.51
1.32	.00	4.37	.00	.000	.020	.000	.000	283.20	5.07
.000442	600.	600.	600.	2	0	0	.00	75.48	80.54
*SECNO 43022.000									
43022.00	5.61	289.46	.00	287.25	289.74	.28	.27	.00	295.50
1600.	0.	1600.	0.	0.	377.	0.	180.	32.	294.25
1.36	.00	4.24	.00	.000	.020	.000	.000	283.85	5.12
.000442	600.	600.	600.	1	0	0	.00	81.42	86.54
*SECNO 43622.000									
43622.00	6.23	289.73	.00	287.25	289.98	.25	.24	.00	295.05
1600.	0.	1600.	0.	0.	396.	0.	186.	33.	294.40
1.40	.00	4.04	.00	.000	.020	.000	.000	283.50	4.10
.000361	600.	600.	600.	0	0	0	.00	78.37	82.46

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 43847.000
3280 CROSS SECTION 43847.00 EXTENDED .33 FEET

43847.00	6.33	289.83	.00	.00	290.06	.23	.08	.00	295.05
1600.	0.	1600.	0.	0.	417.	0.	188.	33.	289.50
1.42	.00	3.83	.00	.000	.020	.000	.000	283.50	4.54
.000331	225.	225.	225.	1	0	0	.00	84.46	89.00

*SECNO 43947.000

43947.00	5.60	289.80	.00	289.00	290.14	.34	.04	.03	295.23
1600.	0.	1600.	0.	0.	343.	0.	189.	34.	293.85
1.42	.00	4.66	.00	.000	.020	.000	.000	284.20	6.97
.000540	100.	100.	100.	2	0	0	.00	74.34	81.32

*SECNO 44027.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

44027.00	6.66	289.96	.00	.00	290.18	.22	.03	.01	295.23
1600.	0.	1600.	0.	0.	428.	0.	189.	34.	293.85
1.43	.00	3.74	.00	.000	.020	.000	.000	283.30	5.74
.000265	80.	80.	80.	2	0	0	.00	74.52	80.26

CCHV= .300 CEHV= .500
*SECNO 44047.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 293.90 MAX ELLC= 292.90

ALMA SCHOOL BRIDGE D/S

44047.00	6.65	289.95	.00	.00	290.20	.25	.01	.02	292.90
1600.	0.	1600.	0.	0.	399.	0.	190.	34.	292.90
1.43	.00	4.01	.00	.000	.020	.000	.000	283.30	7.45
.000456	20.	20.	20.	1	0	0	.00	67.96	77.41

*SECNO 44087.000

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

3265 DIVIDED FLOW

3370 NORMAL BRIDGE. NRD= 0 MIN ELTRD= 293.90 MAX ELLC= 292.90

ALMA SCHOOL BRIDGE U/S

44087.00	6.67	289.97	.00	.00	290.22	.25	.02	.00	292.90
1600.	0.	1600.	0.	0.	400.	0.	190.	34.	292.90
1.43	.00	4.00	.00	.000	.020	.000	.000	283.30	7.44
.000455	40.	40.	40.	0	0	0	.00	67.97	77.42

CCHV= .100 CEHV= .300

*SECNO 44107.000

44107.00	6.71	290.01	.00	.00	290.23	.21	.01	.00	295.90
1600.	0.	1600.	0.	0.	431.	0.	190.	34.	293.40
1.43	.00	3.72	.00	.000	.020	.000	.000	283.30	6.07
.000259	20.	20.	20.	2	0	0	.00	74.23	80.30

*SECNO 44640.000

44640.00	5.73	290.13	.00	290.40	290.44	.32	.18	.03	295.90
1600.	0.	1600.	0.	0.	354.	0.	195.	35.	293.40
1.47	.00	4.52	.00	.000	.020	.000	.000	284.40	7.26
.000484	533.	533.	533.	2	0	0	.00	73.24	80.50

*SECNO 45240.000

45240.00	5.72	290.42	.00	289.50	290.73	.31	.29	.00	296.20
1600.	0.	1600.	0.	0.	357.	0.	200.	36.	294.10
1.50	.00	4.48	.00	.000	.020	.000	.000	284.70	8.63
.000477	600.	600.	600.	2	0	0	.00	75.24	83.87

*SECNO 45540.000

45540.00	5.73	290.73	.00	290.50	291.00	.27	.26	.00	296.80
1600.	0.	1600.	0.	0.	382.	0.	205.	37.	294.70
1.54	.00	4.18	.00	.000	.020	.000	.000	285.00	5.79
.000404	600.	600.	600.	1	0	0	.00	78.36	84.16

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 46440.000

46440.00	5.66	290.96	.00	291.60	291.31	.35	.29	.02	297.40
1600.	0.	1600.	0.	0.	335.	0.	210.	38.	296.40
1.58	.00	4.77	.00	.000	.020	.000	.000	285.30	9.09
.000571	600.	600.	600.	2	0	0	.00	72.99	82.08

*SECNO 47040.000

47040.00	5.45	291.35	.00	290.50	291.62	.27	.30	.01	297.30
1600.	0.	1600.	0.	0.	387.	0.	215.	39.	295.00
1.62	.00	4.13	.00	.000	.020	.000	.000	285.90	2.62
.000429	600.	600.	600.	2	0	0	.00	85.51	88.13

*SECNO 47640.000

47640.00	5.59	291.59	.00	290.20	291.87	.28	.25	.00	297.00
1600.	0.	1600.	0.	0.	377.	0.	220.	40.	295.10
1.66	.00	4.25	.00	.000	.020	.000	.000	286.00	7.95
.000418	600.	600.	600.	2	0	0	.00	78.04	85.99

*SECNO 48240.000

48240.00	5.46	291.86	.00	290.00	292.12	.26	.24	.00	297.80
1600.	0.	1600.	0.	0.	393.	0.	225.	41.	297.30
1.70	.00	4.07	.00	.000	.020	.000	.000	286.40	6.10
.000389	600.	600.	600.	1	0	0	.00	82.19	88.29

*SECNO 48840.000

48840.00	5.58	292.08	.00	291.90	292.42	.34	.27	.02	298.60
1600.	0.	1600.	0.	0.	343.	0.	230.	42.	297.70
1.73	.00	4.67	.00	.000	.020	.000	.000	286.50	9.73
.000545	600.	600.	600.	2	0	0	.00	74.51	84.25

*SECNO 49440.000

49440.00	4.91	292.41	.00	292.20	292.80	.39	.37	.01	298.70
1600.	0.	1600.	0.	0.	320.	0.	235.	43.	298.10
1.77	.00	5.00	.00	.000	.020	.000	.000	287.50	8.71
.000694	600.	600.	600.	2	0	0	.00	75.65	84.36

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 50040.000									
50040.00	4.65	292.85	.00	291.40	293.22	.37	.41	.00	299.10
1600.	0.	1600.	0.	0.	329.	0.	239.	44.	298.90
1.80	.00	4.86	.00	.000	.020	.000	.000	288.20	4.87
.000688	600.	600.	600.	2	0	0	.00	81.25	86.13
*SECNO 50640.000									
50640.00	5.25	293.25	.00	293.60	293.60	.35	.38	.00	299.30
1600.	0.	1600.	0.	0.	336.	0.	244.	45.	298.70
1.84	.00	4.76	.00	.000	.020	.000	.000	288.00	7.36
.000592	600.	600.	600.	1	0	0	.00	75.15	82.51
*SECNO 51240.000									
51240.00	4.61	293.61	.00	293.80	294.01	.40	.40	.02	299.30
1600.	0.	1600.	0.	0.	314.	0.	249.	46.	299.00
1.87	.00	5.10	.00	.000	.020	.000	.000	289.00	8.17
.000743	600.	600.	600.	2	0	0	.00	74.63	82.80
*SECNO 51840.000									
51840.00	5.28	294.08	.00	293.40	294.35	.27	.33	.01	299.60
1600.	0.	1600.	0.	0.	383.	0.	253.	48.	300.10
1.91	.00	4.18	.00	.000	.020	.000	.000	288.80	4.45
.000419	600.	600.	600.	2	0	0	.00	80.57	85.02
*SECNO 52440.000									
52440.00	5.13	294.33	.00	293.30	294.65	.33	.28	.02	300.10
1600.	0.	1600.	0.	0.	349.	0.	258.	49.	300.30
1.95	.00	4.59	.00	.000	.020	.000	.000	289.20	5.09
.000538	600.	600.	600.	2	0	0	.00	77.37	82.47
*SECNO 53040.000									
53040.00	6.16	294.66	.00	295.10	294.93	.27	.27	.01	300.00
1600.	0.	1600.	0.	0.	381.	0.	263.	50.	299.50
1.98	.00	4.20	.00	.000	.020	.000	.000	288.50	7.57
.000394	600.	600.	600.	2	0	0	.00	74.96	82.53

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 53640.000									
53640.00	6.22	294.92	.00	292.90	295.14	.21	.20	.01	300.40
1600.	0.	1600.	0.	0.	430.	0.	269.	51.	299.40
2.03	.00	3.72	.00	.000	.020	.000	.000	288.70	5.10
.000282	600.	600.	600.	1	0	0	.00	80.08	85.19
#SECNO 54240.000									
54240.00	6.18	295.08	.00	295.80	295.33	.25	.18	.01	300.60
1600.	0.	1600.	0.	0.	401.	0.	275.	52.	298.90
2.07	.00	3.99	.00	.000	.020	.000	.000	288.90	8.10
.000331	600.	600.	600.	2	0	0	.00	75.07	83.17
#SECNO 54840.000									
54840.00	6.00	295.30	.00	293.10	295.52	.22	.19	.00	300.70
1600.	0.	1600.	0.	0.	425.	0.	280.	53.	298.80
2.12	.00	3.76	.00	.000	.020	.000	.000	289.30	4.26
.000305	600.	600.	600.	2	0	0	.00	82.93	87.19
#SECNO 55440.000									
3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE									
55440.00	5.36	295.46	.00	295.60	295.83	.37	.26	.05	301.40
1600.	0.	1600.	0.	0.	327.	0.	286.	54.	299.60
2.15	.00	4.90	.00	.000	.020	.000	.000	290.10	8.18
.000684	600.	600.	600.	2	0	0	.00	78.60	86.78
#SECNO 56040.000									
3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE									
56040.00	6.48	295.88	.00	294.90	296.09	.21	.24	.02	301.30
1600.	0.	1600.	0.	0.	435.	0.	291.	55.	300.10
2.20	.00	3.67	.00	.000	.020	.000	.000	289.40	6.77
.000269	600.	600.	600.	2	0	0	.00	79.55	86.32
#SECNO 56640.000									
MEASURING BRIDGE									

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
56640.00	6.85	296.05	.00	294.00	296.25	.20	.16	.00	301.50
1600.	0.	1600.	0.	0.	444.	0.	297.	56.	300.10
2.24	.00	3.60	.00	.000	.020	.000	.000	289.20	7.27
.000251	600.	600.	600.	2	0	0	.00	79.76	87.03

#SECNO 57240.000

57240.00	7.00	296.20	.00	295.20	296.40	.19	.14	.00	301.30
1600.	0.	1600.	0.	0.	455.	0.	303.	57.	299.90
2.29	.00	3.52	.00	.000	.020	.000	.000	289.20	6.68
.000232	600.	600.	600.	0	0	0	.00	79.39	86.07

#SECNO 57840.000

57840.00	6.75	296.35	.00	296.00	296.54	.19	.15	.00	301.40
1600.	0.	1600.	0.	0.	456.	0.	309.	58.	300.50
2.34	.00	3.51	.00	.000	.020	.000	.000	289.60	6.55
.000252	600.	600.	600.	0	0	0	.00	85.76	92.31

#SECNO 58440.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

58440.00	4.87	296.47	.00	296.30	296.81	.34	.23	.05	301.60
1600.	0.	1600.	0.	0.	341.	0.	315.	60.	299.50
2.37	.00	4.70	.00	.000	.020	.000	.000	291.60	7.74
.000632	600.	600.	600.	2	0	0	.00	83.47	91.21

#SECNO 58793.000

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 299.90 MAX ELLC= 298.90

FOOT BRIDGE D/S

58793.00	5.12	296.72	.00	.00	297.02	.30	.20	.00	301.60
1600.	0.	1600.	0.	0.	361.	0.	318.	60.	299.50
2.39	.00	4.43	.00	.000	.020	.000	.000	291.60	7.37
.000527	353.	353.	353.	2	0	0	.00	84.15	91.52

#SECNO 58797.000

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

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 299.90 MAX ELLC= 298.90

FOOT BRIDGE U/S

58797.00	5.12	296.72	.00	.00	297.02	.30	.00	.00	301.60
1600.	0.	1600.	0.	0.	361.	0.	318.	60.	299.50
2.39	.00	4.43	.00	.000	.020	.000	.000	291.60	7.37
.000526	4.	4.	4.	0	0	0	.00	84.15	91.52

#SECNO 59023.000

3265 DIVIDED FLOW

59023.00	5.83	296.96	.00	.00	297.14	.18	.11	.01	300.16
1600.	0.	1600.	0.	0.	466.	0.	320.	61.	300.16
2.41	.00	3.43	.00	.000	.020	.000	.000	291.13	.00
.000422	226.	226.	226.	2	0	0	.00	80.00	84.00

#SECNO 59040.000

3265 DIVIDED FLOW

EVERGREEN RADIAL GATES

59040.00	5.84	296.97	.00	.00	297.15	.18	.01	.00	300.16
1600.	0.	1600.	0.	0.	467.	0.	320.	61.	300.16
2.41	.00	3.43	.00	.000	.020	.000	.000	291.13	.00
.000421	17.	17.	17.	0	0	0	.00	80.00	84.00

THIS RUN EXECUTED 7/18/90 14:36: 0

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HEC2 RELEASE DATED SEPT 88

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

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	25870.000	.00	.00	.00	277.38	1600.00	284.18	.00	284.45	3.32	4.20	380.80	878.55
	25884.000	14.00	.00	.00	277.38	1600.00	284.18	.00	284.46	3.31	4.20	381.06	879.47
*	25896.000	12.00	.00	.00	275.28	1600.00	284.35	.00	284.46	.96	2.72	589.23	1636.52
	26441.000	545.00	.00	.00	274.80	1600.00	284.43	.00	284.50	.50	2.07	773.03	2260.42
	27041.000	600.00	.00	.00	274.90	1600.00	284.46	.00	284.53	.52	2.11	759.08	2209.48
*	27076.000	35.00	290.18	289.18	277.18	1600.00	284.43	.00	284.56	1.71	2.96	540.25	1223.01
	27165.000	89.00	290.30	289.30	276.84	1600.00	284.46	.00	284.58	1.47	2.82	568.34	1318.45
	27240.000	75.00	.00	.00	277.00	1600.00	284.47	.00	284.60	1.36	2.88	554.67	1370.36
	27765.000	525.00	.00	.00	277.10	1600.00	284.53	.00	284.67	1.52	3.02	529.44	1299.54
	28365.000	600.00	.00	.00	276.90	1600.00	284.63	.00	284.77	1.52	3.01	532.02	1299.31
	28965.000	600.00	.00	.00	276.80	1600.00	284.71	.00	284.87	1.68	3.20	499.81	1235.24
	29565.000	600.00	.00	.00	276.90	1600.00	284.82	.00	284.96	1.45	3.02	528.94	1330.87
	30165.000	600.00	.00	.00	276.50	1600.00	284.90	.00	285.05	1.50	3.08	518.68	1304.31
	30765.000	600.00	.00	.00	278.00	1600.00	284.99	.00	285.16	2.01	3.35	477.34	1128.78
	31036.000	271.00	.00	.00	278.30	1600.00	285.04	.00	285.22	2.16	3.41	468.72	1089.30
	31143.000	107.00	.00	.00	278.40	1600.00	285.08	.00	285.25	1.98	3.26	490.44	1136.10
	31164.000	21.00	.00	.00	278.60	1600.00	285.09	.00	285.25	2.00	3.25	492.45	1130.61

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
31365.000	201.00	.00	.00	278.20	1600.00	285.12	.00	285.29	2.09	3.30	484.43	1106.84
31965.000	600.00	.00	.00	277.60	1600.00	285.24	.00	285.42	2.07	3.35	477.21	1112.35
32288.000	323.00	.00	.00	278.77	1600.00	285.31	.00	285.50	2.50	3.53	453.77	1011.25
32313.000	25.00	.00	.00	278.85	1600.00	285.31	.00	285.50	2.50	3.54	452.56	1011.45
32375.000	62.00	.00	.00	279.06	1600.00	285.32	.00	285.52	2.60	3.60	444.57	992.73
32425.000	50.00	.00	.00	279.23	1600.00	285.33	.00	285.54	2.73	3.65	438.54	967.53
32532.000	107.00	290.88	289.88	279.58	1600.00	285.36	.00	285.57	2.83	3.66	436.79	951.16
32538.000	6.00	290.88	289.88	279.58	1600.00	285.36	.00	285.57	2.83	3.66	436.93	951.64
32565.000	27.00	.00	.00	278.00	1600.00	285.43	.00	285.58	1.74	3.15	507.89	1212.90
32570.000	5.00	.00	.00	279.40	1600.00	285.40	.00	285.59	2.45	3.48	459.91	1022.05
32590.000	20.00	290.80	289.80	279.40	1600.00	285.40	.00	285.61	3.97	3.75	426.90	803.12
32622.000	33.00	291.20	290.20	279.60	1600.00	285.40	.00	285.64	4.41	3.89	411.29	761.79
32642.000	20.00	.00	.00	279.60	1600.00	285.45	.00	285.65	2.68	3.58	446.94	977.70
32647.000	5.00	.00	.00	278.70	1600.00	285.45	.00	285.65	2.52	3.54	451.40	1007.21
32802.000	155.00	288.65	287.65	279.11	1600.00	285.57	.00	285.69	1.60	2.75	581.27	1265.95
32814.000	12.00	288.65	287.65	279.11	1600.00	285.57	.00	285.69	1.60	2.75	581.49	1266.67
33422.000	608.00	.00	.00	278.80	1600.00	285.63	.00	285.83	2.42	3.57	447.96	1028.95
34022.000	600.00	.00	.00	279.10	1600.00	285.79	.00	285.97	2.28	3.41	468.57	1060.36
34189.000	167.00	.00	.00	279.10	1600.00	285.84	.00	286.01	2.30	3.36	476.61	1054.83
34622.000	433.00	.00	.00	279.05	1600.00	285.93	.00	286.12	2.34	3.47	460.98	1045.65
35139.000	517.00	.00	.00	279.20	1600.00	286.05	.00	286.24	2.30	3.51	456.45	1055.39
35222.000	83.00	.00	.00	279.20	1600.00	286.07	.00	286.26	2.28	3.50	457.75	1059.97
35822.000	600.00	.00	.00	280.00	1600.00	286.20	.00	286.41	2.77	3.69	433.91	961.54
36017.000	195.00	.00	.00	280.00	1600.00	286.26	.00	286.47	2.68	3.63	440.52	977.98
36422.000	405.00	.00	.00	280.10	1600.00	286.36	.00	286.59	3.13	3.84	416.82	904.19
37022.000	600.00	.00	.00	280.70	1600.00	286.55	.00	286.81	3.83	4.11	389.28	817.57

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	37547.000	525.00	.00	.00	281.35	1600.00	286.74	.00	287.05	4.85	4.40	363.62	726.17
	37622.000	75.00	.00	.00	281.35	1600.00	286.78	.00	287.08	4.74	4.42	361.90	734.74
	38167.000	545.00	.00	.00	281.92	1600.00	287.06	.00	287.34	4.55	4.21	380.17	750.23
	38222.000	55.00	.00	.00	281.92	1600.00	287.09	.00	287.36	4.49	4.20	380.96	755.35
	38822.000	600.00	.00	.00	281.00	1600.00	287.34	.00	287.63	4.21	4.28	374.07	779.66
	39422.000	600.00	.00	.00	281.73	1600.00	287.59	.00	287.90	4.76	4.49	356.74	733.45
	40022.000	600.00	.00	.00	281.73	1600.00	287.89	.00	288.23	5.84	4.66	343.39	662.04
	40037.000	15.00	.00	.00	281.73	1600.00	287.91	.00	288.24	5.68	4.55	351.53	671.39
	40622.000	585.00	.00	.00	282.40	1600.00	288.24	.00	288.54	4.68	4.42	361.70	739.76
	41222.000	600.00	.00	.00	282.87	1600.00	288.53	.00	288.83	5.00	4.40	363.92	715.27
	41253.000	31.00	.00	.00	282.87	1600.00	288.54	.00	288.85	5.30	4.48	356.85	694.91
	41822.000	569.00	.00	.00	283.17	1600.00	288.83	.00	289.17	5.65	4.70	340.09	673.17
	42422.000	600.00	.00	.00	283.20	1600.00	289.18	.00	289.47	4.42	4.37	366.12	761.39
	43022.000	600.00	.00	.00	283.85	1600.00	289.46	.00	289.74	4.42	4.24	377.26	760.89
	43622.000	600.00	.00	.00	283.50	1600.00	289.73	.00	289.98	3.61	4.04	395.56	842.01
	43847.000	225.00	.00	.00	283.50	1600.00	289.83	.00	290.06	3.31	3.83	417.49	879.97
	43947.000	100.00	.00	.00	284.20	1600.00	289.80	.00	290.14	5.40	4.66	343.06	688.31
*	44027.000	80.00	.00	.00	283.30	1600.00	289.96	.00	290.18	2.65	3.74	428.04	983.74
	44047.000	20.00	293.90	292.90	283.30	1600.00	289.95	.00	290.20	4.56	4.01	399.50	749.02
	44087.000	40.00	293.90	292.90	283.30	1600.00	289.97	.00	290.22	4.55	4.00	399.88	750.01
	44107.000	20.00	.00	.00	283.30	1600.00	290.01	.00	290.23	2.59	3.72	430.52	994.45
	44640.000	533.00	.00	.00	284.40	1600.00	290.13	.00	290.44	4.84	4.52	353.85	727.53
	45240.000	600.00	.00	.00	284.70	1600.00	290.42	.00	290.73	4.77	4.48	357.11	732.68
	45540.000	600.00	.00	.00	285.00	1600.00	290.73	.00	291.00	4.04	4.18	382.40	795.71
	46440.000	600.00	.00	.00	285.30	1600.00	290.96	.00	291.31	5.71	4.77	335.23	669.65
	47040.000	600.00	.00	.00	285.90	1600.00	291.35	.00	291.62	4.29	4.13	387.27	772.15

	SECND	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	47640.000	600.00	.00	.00	286.00	1600.00	291.59	.00	291.87	4.18	4.25	376.88	782.27
	48240.000	600.00	.00	.00	286.40	1600.00	291.86	.00	292.12	3.89	4.07	393.40	811.71
	48840.000	600.00	.00	.00	286.50	1600.00	292.08	.00	292.42	5.45	4.67	342.63	685.18
	49440.000	600.00	.00	.00	287.50	1600.00	292.41	.00	292.80	6.94	5.00	319.95	607.56
	50040.000	600.00	.00	.00	288.20	1600.00	292.85	.00	293.22	6.88	4.86	329.19	610.07
	50640.000	600.00	.00	.00	288.00	1600.00	293.25	.00	293.60	5.92	4.76	335.98	657.50
	51240.000	600.00	.00	.00	289.00	1600.00	293.61	.00	294.01	7.43	5.10	313.52	586.83
	51840.000	600.00	.00	.00	288.80	1600.00	294.08	.00	294.35	4.19	4.18	383.06	781.86
	52440.000	600.00	.00	.00	289.20	1600.00	294.33	.00	294.65	5.38	4.59	348.93	689.94
	53040.000	600.00	.00	.00	288.50	1600.00	294.66	.00	294.93	3.94	4.20	380.74	806.44
	53640.000	600.00	.00	.00	288.70	1600.00	294.92	.00	295.14	2.82	3.72	430.31	952.44
	54240.000	600.00	.00	.00	288.90	1600.00	295.08	.00	295.33	3.31	3.99	400.94	879.21
	54840.000	600.00	.00	.00	289.30	1600.00	295.30	.00	295.52	3.05	3.76	425.43	916.87
*	55440.000	600.00	.00	.00	290.10	1600.00	295.46	.00	295.83	6.84	4.90	326.54	611.87
*	56040.000	600.00	.00	.00	289.40	1600.00	295.88	.00	296.09	2.69	3.67	435.45	975.22
	56640.000	600.00	.00	.00	289.20	1600.00	296.05	.00	296.25	2.51	3.60	444.06	1010.43
	57240.000	600.00	.00	.00	289.20	1600.00	296.20	.00	296.40	2.32	3.52	454.52	1049.42
	57840.000	600.00	.00	.00	289.60	1600.00	296.35	.00	296.54	2.52	3.51	456.12	1007.64
*	58440.000	600.00	.00	.00	291.60	1600.00	296.47	.00	296.81	6.32	4.70	340.53	636.27
	58793.000	353.00	299.90	298.90	291.60	1600.00	296.72	.00	297.02	5.27	4.43	361.09	697.01
	58797.000	4.00	299.90	298.90	291.60	1600.00	296.72	.00	297.02	5.26	4.43	361.27	697.55
	59023.000	226.00	.00	.00	291.13	1600.00	296.96	.00	297.14	4.22	3.43	466.04	778.50
	59040.000	17.00	.00	.00	291.13	1600.00	296.97	.00	297.15	4.21	3.43	466.68	779.97

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	25870.000	1600.00	284.18	.00	.00	.00	56.00	.00
	25884.000	1600.00	284.18	.00	.01	.00	56.00	14.00
*	25896.000	1600.00	284.35	.00	.16	.00	73.98	12.00
	26441.000	1600.00	284.43	.00	.08	-1.34	90.93	545.00
	27041.000	1600.00	284.46	.00	.03	-1.31	90.21	600.00
*	27076.000	1600.00	284.43	.00	-.03	.00	79.06	35.00
	27165.000	1600.00	284.46	.00	.03	.00	79.17	89.00
	27240.000	1600.00	284.47	.00	.01	1.97	86.44	75.00
	27765.000	1600.00	284.53	.00	.07	1.63	83.89	525.00
	28365.000	1600.00	284.63	.00	.09	1.53	85.17	600.00
	28965.000	1600.00	284.71	.00	.08	1.21	77.96	600.00
	29565.000	1600.00	284.82	.00	.11	1.12	80.31	600.00
	30165.000	1600.00	284.90	.00	.08	1.20	78.25	600.00
	30765.000	1600.00	284.99	.00	.09	.99	79.71	600.00
	31036.000	1600.00	285.04	.00	.05	.00	80.34	271.00
	31143.000	1600.00	285.08	.00	.04	.00	85.16	107.00
	31164.000	1600.00	285.09	.00	.01	.00	86.87	21.00
	31365.000	1600.00	285.12	.00	.04	.92	85.38	201.00
	31965.000	1600.00	285.24	.00	.12	.84	80.92	600.00
	32288.000	1600.00	285.31	.00	.06	.00	84.18	323.00
	32313.000	1600.00	285.31	.00	.01	.00	83.42	25.00
	32375.000	1600.00	285.32	.00	.01	.00	81.63	62.00
	32425.000	1600.00	285.33	.00	.01	.00	81.92	50.00
	32532.000	1600.00	285.36	.00	.03	.00	83.15	107.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
32538.000	1600.00	285.36	.00	.00	.00	83.15	6.00
32565.000	1600.00	285.43	.00	.07	.53	83.65	27.00
32570.000	1600.00	285.40	.00	-.02	.00	85.09	5.00
32590.000	1600.00	285.40	.00	-.01	.00	76.75	20.00
32622.000	1600.00	285.40	.00	.01	.00	76.18	33.00
32642.000	1600.00	285.45	.00	.05	.00	84.78	20.00
32647.000	1600.00	285.45	.00	.01	1.21	82.95	5.00
32802.000	1600.00	285.57	.00	.12	.00	90.00	155.00
32814.000	1600.00	285.57	.00	.00	.00	90.00	12.00
33422.000	1600.00	285.63	.00	.06	1.39	77.53	608.00
34022.000	1600.00	285.79	.00	.16	1.54	84.23	600.00
34189.000	1600.00	285.84	.00	.04	.00	88.74	167.00
34622.000	1600.00	285.93	.00	.09	.00	82.42	433.00
35139.000	1600.00	286.05	.00	.12	.00	78.73	517.00
35222.000	1600.00	286.07	.00	.02	1.47	78.77	83.00
35822.000	1600.00	286.20	.00	.14	.00	80.27	600.00
36017.000	1600.00	286.26	.00	.06	.00	81.58	195.00
36422.000	1600.00	286.36	.00	.10	1.46	80.42	405.00
37022.000	1600.00	286.55	.00	.18	1.18	78.72	600.00
37547.000	1600.00	286.74	.00	.20	.00	79.83	525.00
37622.000	1600.00	286.78	.00	.03	.00	76.91	75.00
38167.000	1600.00	287.06	.00	.28	.00	84.86	545.00
38222.000	1600.00	287.09	.00	.03	.00	84.32	55.00
38822.000	1600.00	287.34	.00	.25	.00	76.40	600.00
39422.000	1600.00	287.59	.00	.25	1.89	74.75	600.00
40022.000	1600.00	287.89	.00	.30	.00	80.13	600.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
40037.000	1600.00	287.91	.00	.03	1.91	83.07	15.00
40622.000	1600.00	288.24	.00	.32	2.17	76.33	585.00
41222.000	1600.00	288.53	.00	.29	2.46	81.88	600.00
41253.000	1600.00	288.54	.00	.01	.00	81.41	31.00
41822.000	1600.00	288.83	.00	.29	1.98	75.91	569.00
42422.000	1600.00	289.18	.00	.35	2.33	75.48	600.00
43022.000	1600.00	289.46	.00	.28	2.21	81.42	600.00
43622.000	1600.00	289.73	.00	.27	2.48	78.37	600.00
43847.000	1600.00	289.83	.00	.11	.00	84.46	225.00
43947.000	1600.00	289.80	.00	-.04	.80	74.34	100.00
* 44027.000	1600.00	289.96	.00	.16	.00	74.52	80.00
44047.000	1600.00	289.95	.00	-.01	.00	67.96	20.00
44087.000	1600.00	289.97	.00	.02	.00	67.97	40.00
44107.000	1600.00	290.01	.00	.04	.00	74.23	20.00
44640.000	1600.00	290.13	.00	.11	-.27	73.24	533.00
45240.000	1600.00	290.42	.00	.29	.92	75.24	600.00
45540.000	1600.00	290.73	.00	.31	.23	78.36	600.00
46440.000	1600.00	290.96	.00	.23	-.64	72.99	600.00
47040.000	1600.00	291.35	.00	.39	.85	85.51	600.00
47640.000	1600.00	291.59	.00	.24	1.39	78.04	600.00
48240.000	1600.00	291.86	.00	.27	1.86	82.19	600.00
48840.000	1600.00	292.08	.00	.22	.18	74.51	600.00
49440.000	1600.00	292.41	.00	.33	.21	75.65	600.00
50040.000	1600.00	292.85	.00	.44	1.45	81.25	600.00
50640.000	1600.00	293.25	.00	.40	-.35	75.15	600.00
51240.000	1600.00	293.61	.00	.36	-.19	74.63	600.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	51840.000	1600.00	294.08	.00	.47	.68	80.57	600.00
	52440.000	1600.00	294.33	.00	.24	1.03	77.37	600.00
	53040.000	1600.00	294.66	.00	.33	-.44	74.96	600.00
	53640.000	1600.00	294.92	.00	.26	2.02	80.08	600.00
	54240.000	1600.00	295.08	.00	.16	-.72	75.07	600.00
	54840.000	1600.00	295.30	.00	.22	2.20	82.93	600.00
*	55440.000	1600.00	295.46	.00	.16	-.14	78.60	600.00
*	56040.000	1600.00	295.88	.00	.42	.98	79.55	600.00
	56640.000	1600.00	296.05	.00	.16	2.05	79.76	600.00
	57240.000	1600.00	296.20	.00	.15	1.00	79.39	600.00
	57840.000	1600.00	296.35	.00	.15	.35	85.76	600.00
*	58440.000	1600.00	296.47	.00	.12	.17	83.47	600.00
	58793.000	1600.00	296.72	.00	.25	.00	84.15	353.00
	58797.000	1600.00	296.72	.00	.00	.00	84.15	4.00
	59023.000	1600.00	296.96	.00	.24	.00	80.00	226.00
	59040.000	1600.00	296.97	.00	.01	.00	80.00	17.00

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 25896.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

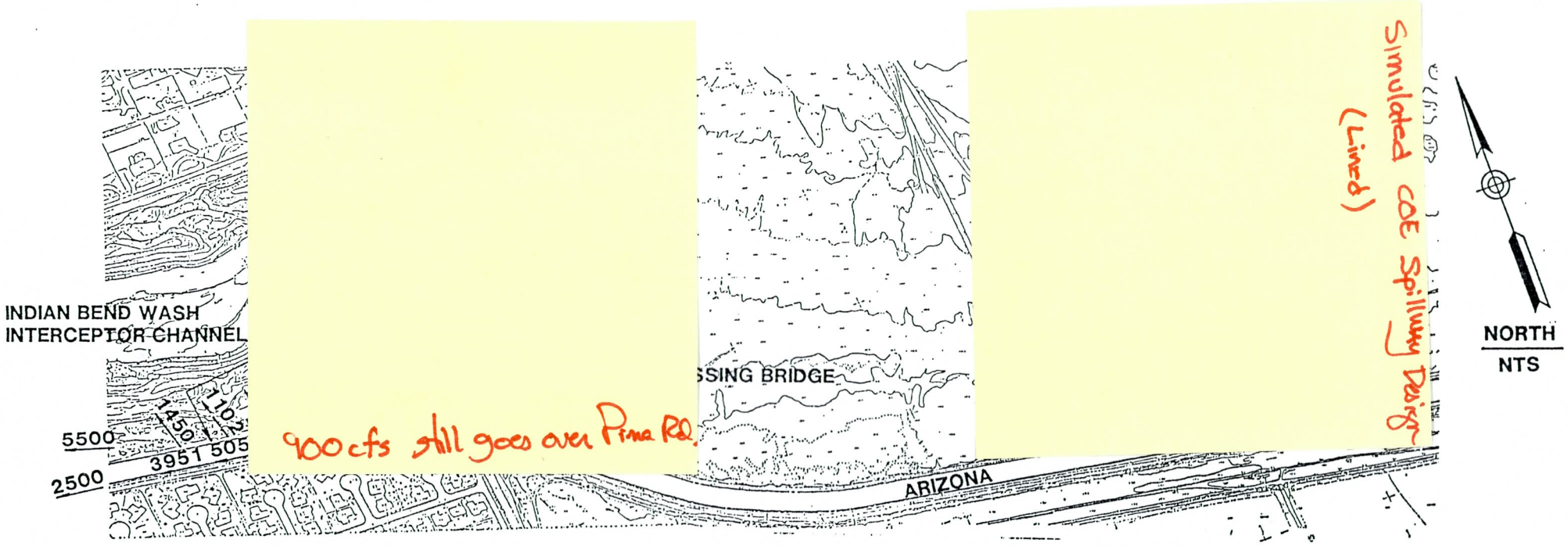
WARNING SECNO= 27076.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 44027.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 55440.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 56040.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 58440.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE



PROFILE I (SPLIT FLOW SIDE WEIR OPTION)

ARIZONA CANAL (LINED)

Q:7100 CFS THRU PIMA ROAD BRIDGE

Q:2500 CFS ARIZONA CANAL (LINED) DOWNSTREAM

LEGEND

7100 FLOW,CFS,COE DESIGN

—— FLOW PATH , CHANNEL

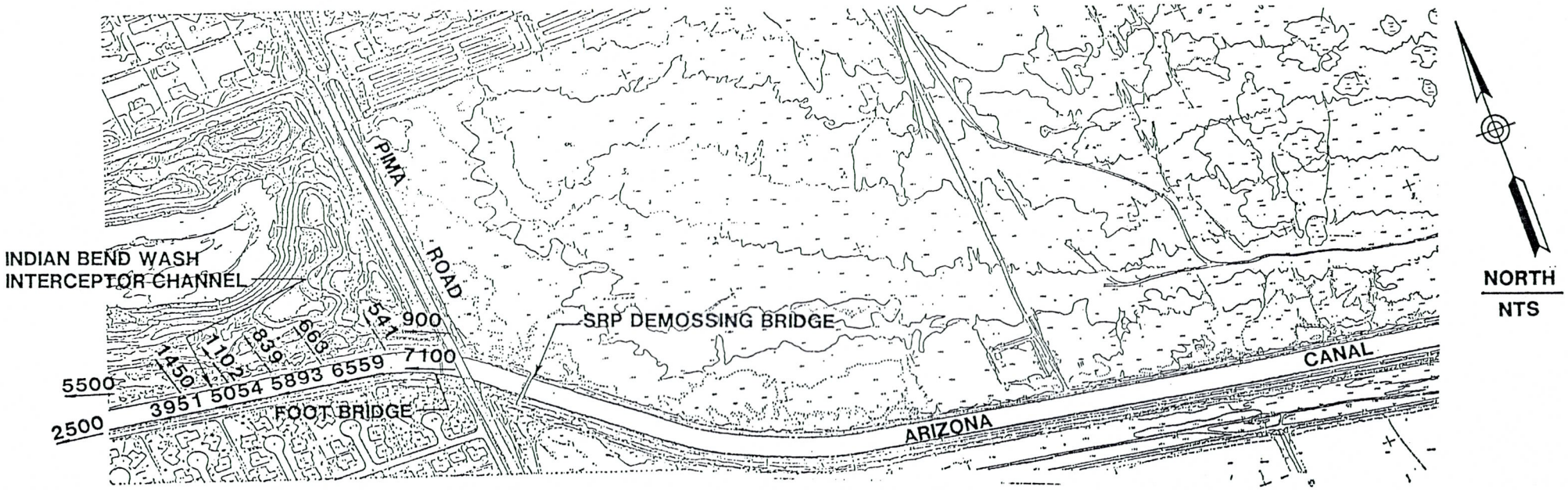
– – – FLOW SPLIT , COE SPILLWAY

APPENDIX B

HEC-2 COMPUTER MODEL

SIMULATED COE SPILLWAY DESIGN

ARIZONA CANAL (LINED)



PROFILE I (SPLIT FLOW SIDE WEIR OPTION)

ARIZONA CANAL (LINED)

Q:7100 CFS THRU PIMA ROAD BRIDGE

Q:2500 CFS ARIZONA CANAL (LINED) DOWNSTREAM

LEGEND

7100 FLOW,CFS,COE DESIGN

—— FLOW PATH , CHANNEL

– – – FLOW SPLIT , COE SPILLWAY

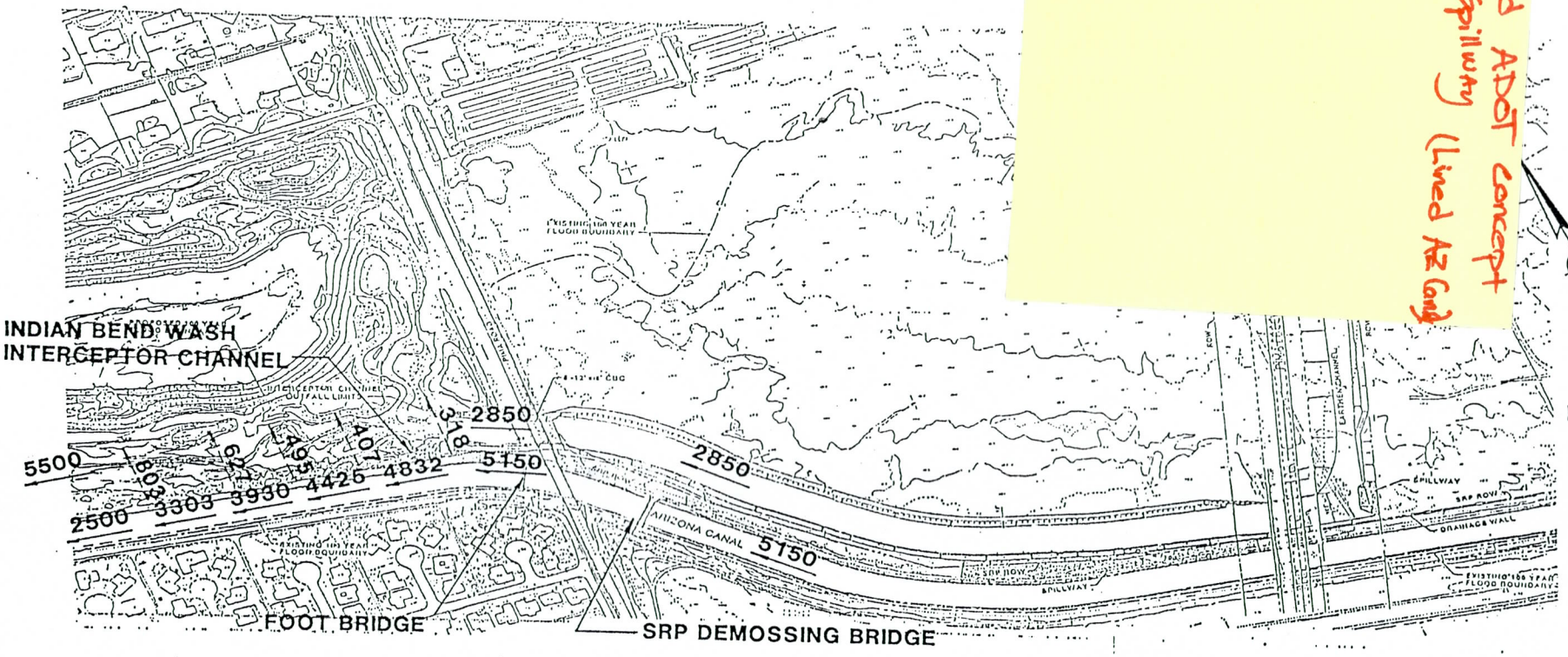
APPENDIX B

HEC-2 COMPUTER MODEL

SIMULATED COE SPILLWAY DESIGN

ARIZONA CANAL (LINED)

Simulated ADOT concept
COE - Spillway (Lined AZ Canal)



LEGEND

5150	FLOW,CFS,ADOT CONCEPT
——→	FLOW PATH
- - - →	FLOW SPLIT,COE SPILLWAY

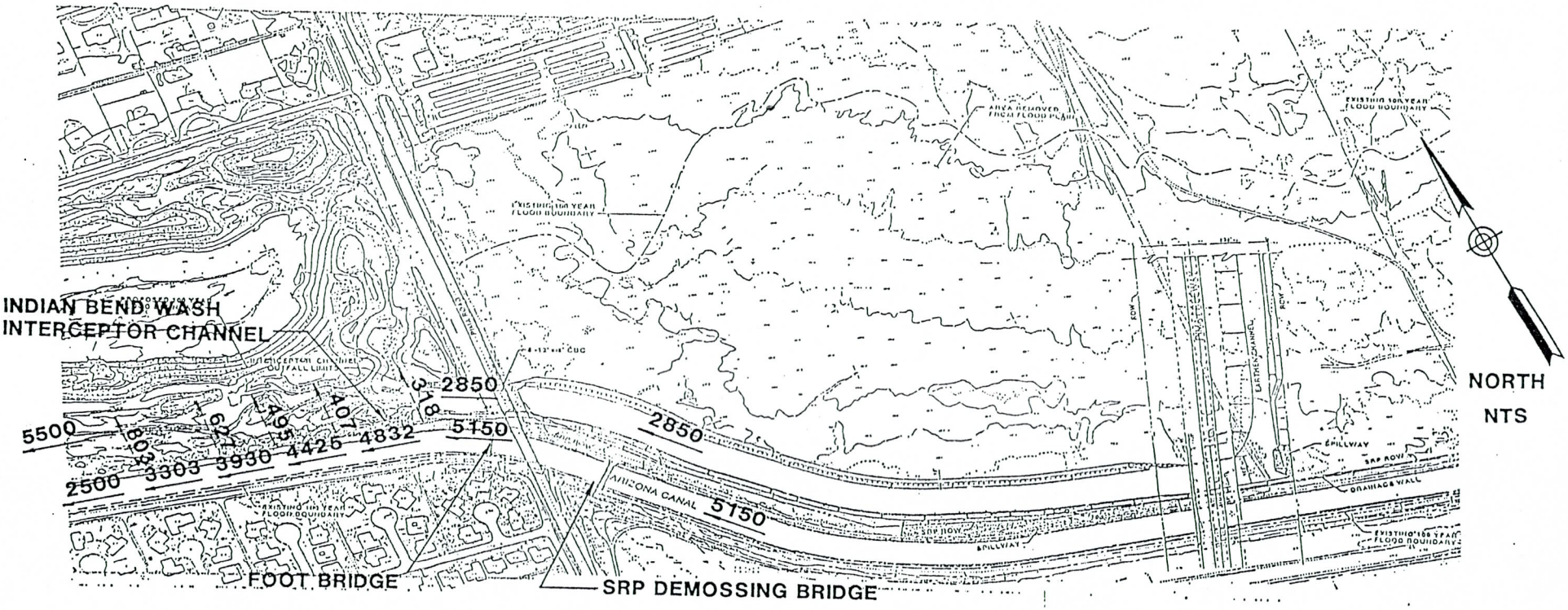
PROFILE 2 (SPLIT FLOW SIDE WEIR OPTION)

ARIZONA CANAL (LINED)
Q:5150 CFS THRU PIMA ROAD BRIDGE
Q:2500 CFS ARIZONA CANAL (LINED) DOWNSTREAM

ADOT INTERCEPTOR CHANNEL
Q:2850 CFS THRU BOX CULVERTS
Q:5500 CFS COE INTERCEPTOR CHANNEL DOWNSTREAM

APPENDIX B (PROFILE 2)

HEC-2 COMPUTER MODEL
SIMULATED ADOT CONCEPT
COE SPILLWAY
ARIZONA CANAL (LINED)



LEGEND

5150	FLOW,CFS,ADOT CONCEPT
——→	FLOW PATH
- - - →	FLOW SPLIT,COE SPILLWAY

PROFILE 2 (SPLIT FLOW SIDE WEIR OPTION)

ARIZONA CANAL (LINED)
Q:5150 CFS THRU PIMA ROAD BRIDGE
Q:2500 CFS ARIZONA CANAL (LINED) DOWNSTREAM

ADOT INTERCEPTOR CHANNEL
Q:2850 CFS THRU BOX CULVERTS
Q:5500 CFS COE INTERCEPTOR CHANNEL DOWNSTREAM

APPENDIX B (PROFILE 2)

HEC-2 COMPUTER MODEL
SIMULATED ADOT CONCEPT
COE SPILLWAY
ARIZONA CANAL (LINED)

```
**********************************************************
*  WATER SURFACE PROFILES                                *
*  VERSION OF SEPTEMBER 1988                             *
*                                                        *
*                                                        *
*  RUN DATE     8/21/90   TIME   14:22:45                *
**********************************************************
```


```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  THE HYDROLOGIC ENGINEERING CENTER   *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616             *
*  (916) 756-1104                      *
****************************************
```


```
X     X  XXXXXXXX   XXXXX              XXXXX
X     X  X         X     X            X     X
X     X  X         X                        X
XXXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X         X                   X
X     X  X         X     X             X
X     X  XXXXXXXX   XXXXX              XXXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 8/21/90 14:22:45

****
HEC2 RELEASE DATED SEPT 88

****

****
* F I N A L *
****

* * * * * * * * * * * * * * * * * * * *
* A P P E N D I X B *
* * * * * * * * * * * * * * * * * * * *

THIS FILE IS NAMED: APNDXBR.IN

THIS MODEL IS FOR COE SPILLWAY ONLY

DATUM IS CORPS OF ENGINEERS (COE)

FROM COE DESIGN MEMO NO. 4, PAGE V-6.

SIDE-SPILLWAY

SIDE-SPILLWAY		ARIZONA CANAL		SIDE-SPILLWAY DISCHARGES	
DISTANCE FROM D/S END OF WEIR, FT.	WEIR CREST ELEVATION (S=0.00044) FT.	W.S ELEV. FT.	DISCHARGE CFS	Q CFS	TOTAL Q CFS
0	1280.50	1282.30	2500	0	0
220	1280.60	1282.10	3930	1430	1430
440	1280.69	1281.94	5000	1070	2500
660	1280.79	1281.89	5800	800	3300
880	1280.89	1281.85	6490	690	3990
1100	1280.98	1281.91	7100	610	4600

STARTING WATER SURFACE ELEVATION IS FROM THE ABOVE CHART
AT DISTANCE = 0

CROSS-SECTION NO. 6117.0 IS DISTANCE = 0 IN ABOVE CHART

SPLIT FLOW OPTION WEIR METHOD TO DETERMINE FLOWS
OVER THE ARIZONA CANAL NORTH BANK COE SPILLWAY
INTO COE IBW INTERCEPTOR CHANNEL

PROFILE 1 COE DESIGN FLOW Q = 7100 CFS

PROFILE 2 ADOT DESIGN FLOW Q = 5150 CFS

SPLIT FLOW BEING PERFORMED

SF SPLIT FLOW FOR COE SPILLWAY

```
TW      SPILLWAY SECTION U/S END
WS    2   6997.   7217.     -1.     3.0
WC        1281.0    220.  1281.0

TW      SPILLWAY CONTINUED
WS    2   6777.   6997.     -1.     3.0
WC        1280.8    220.  1280.9

TW      SPILLWAY CONTINUED
WS    2   6557.   6777.     -1.     3.0
WC        1280.7    220.  1280.8

TW      SPILLWAY CONTINUED
WS    2   6337.   6557.     -1.     3.0
WC        1280.6    220.  1280.7

TW      SPILLWAY SECTION D/S END
WS    2   6117.   6337.     -1.     3.0
WC        1280.5    220.  1280.6
```

T1 ARIZONA CANAL AT COE SPILLWAY
T2 CORP
T3 ARI

Extended cross section
Right Bank. (Spillway!)

J1	ICHECK					HVINS	Q	WSEL	FQ	
	0							1282.3		
J2	NPROF					ALLDC	IBW	CHNIM	ITRACE	
	1									
NC	0.(									
QT										
X1	6117.0	5	0	88.3	0	0	0			
X3	10									
GR	1284.2	0	1273.2	11	1273.2	81	1280.5	88.3	1279.5	113.7
X1	6337.0	5	0	88.3	220	220	220			
X3	10									
GR	1284.2	0	1273.3	11	1273.3	81	1280.6	88.3	1279.6	113.7
X1	6557.0	5	0	88.3	220	220	220			
X3	10									
GR	1284.5	0	1273.4	11	1273.4	81	1280.7	88.3	1279.7	113.7
X1	6777.0	5	0	88.3	220	220	220			
X3	10									
GR	1284.5	0	1273.5	11	1273.5	81	1280.8	88.3	1279.8	113.5
X1	6997.0	5	0	88.6	220	220	220			
X3	10									
GR	1285.0	0	1273.6	11.3	1273.6	81.3	1280.9	88.6	1279.9	113.5

END COE SPILLWAY UPSTREAM

X1	7217.0	5	0	88.6	220	220	220			
X3	10									
GR	1285.0	0	1273.7	11.3	1273.7	81.3	1281.0	88.6	1280.0	113.8
X1	7329.0	5	0	92.3	112	112	112			
X3	10									
GR	1285.0	0	1273.7	11.3	1273.8	81.3	1284.0	92.3	1284.8	115

```
T1      ARIZONA CANAL AT COE SPILLWAY
T2      CORPS OF ENGINEERS DATUM
T3      ARIZONA CANAL EXISTING

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        0         2                                                           1282.3

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

        1         0        -1

NC    0.030     0.030     0.018        .1        .3
QT        2      7100      5150
```

BEGIN COE SPILLWAY DOWNSTREAM

```
X1    6117.0         5         0      88.3         0         0         0
X3        10
GR    1284.2         0    1273.2        11    1273.2        81    1280.5      88.3    1279.5     113.7

X1    6337.0         5         0      88.3       220       220       220
X3        10
GR    1284.2         0    1273.3        11    1273.3        81    1280.6      88.3    1279.6     113.7

X1    6557.0         5         0      88.3       220       220       220
X3        10
GR    1284.5         0    1273.4        11    1273.4        81    1280.7      88.3    1279.7     113.7

X1    6777.0         5         0      88.3       220       220       220
X3        10
GR    1284.5         0    1273.5        11    1273.5        81    1280.8      88.3    1279.8     113.5

X1    6997.0         5         0      88.6       220       220       220
X3        10
GR    1285.0         0    1273.6      11.3    1273.6      81.3    1280.9      88.6    1279.9     113.5
```

END COE SPILLWAY UPSTREAM

```
X1    7217.0         5         0      88.6       220       220       220
X3        10
GR    1285.0         0    1273.7      11.3    1273.7      81.3    1281.0      88.6    1280.0     113.8

X1    7329.0         5         0      92.3       112       112       112
X3        10
GR    1285.0         0    1273.7      11.3    1273.8      81.3    1284.0      92.3    1284.8       115
```

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

*PROF 1

CCHV= .100 CEHV= .300
*SECNO 6117.000
3280 CROSS SECTION 6117.00 EXTENDED 2.80 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.20 ELREA= 1280.50

6117.00	9.10	1282.30	.00	1282.30	1282.48	.18	.00	.00	1284.20
2527.	0.	2477.	50.	0.	718.	58.	0.	0.	1280.50
.00	.00	3.45	.86	.000	.018	.030	.000	1273.20	1.90
.000115	0.	0.	0.	0	0	0	.00	111.80	113.70

*SECNO 6337.000
3280 CROSS SECTION 6337.00 EXTENDED 2.54 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.20 ELREA= 1280.60

6337.00	8.84	1282.14	.00	.00	1282.61	.48	.04	.09	1284.20
3951.	0.	3883.	68.	0.	696.	52.	4.	1.	1280.60
.01	.00	5.58	1.32	.000	.018	.030	.000	1273.30	2.08
.000311	220.	220.	220.	2	0	0	.00	111.62	113.70

*SECNO 6557.000
3280 CROSS SECTION 6557.00 EXTENDED 2.28 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.50 ELREA= 1280.70

6557.00	8.58	1281.98	.00	.00	1282.82	.84	.09	.11	1284.50
5054.	0.	4980.	74.	0.	673.	45.	8.	1.	1280.70
.02	.00	7.40	1.64	.000	.018	.030	.000	1273.40	2.50
.000569	220.	220.	220.	2	0	0	.00	111.20	113.70

*SECNO 6777.000
3280 CROSS SECTION 6777.00 EXTENDED 2.07 FEET

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.50 ELREA= 1280.80

6777.00	8.37	1281.87	.00	.00	1283.08	1.21	.15	.11	1284.50
5893.	0.	5820.	73.	0.	656.	40.	11.	2.	1280.80
.03	.00	8.86	1.85	.000	.018	.030	.000	1273.50	2.63
.000845	220.	220.	220.	2	0	0	.00	110.87	113.50

#SECNO 6997.000
3280 CROSS SECTION 6997.00 EXTENDED 1.94 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1280.90

6997.00	8.24	1281.84	.00	.00	1283.40	1.56	.21	.10	1285.00
6559.	0.	6487.	72.	0.	644.	36.	15.	2.	1280.90
.03	.00	10.07	2.00	.000	.018	.030	.000	1273.60	3.13
.001110	220.	220.	220.	2	0	0	.00	110.37	113.50

#SECNO 7217.000
3280 CROSS SECTION 7217.00 EXTENDED 1.91 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1281.00

7217.00	8.21	1281.91	.00	.00	1283.75	1.84	.27	.08	1285.00
7100.	0.	7024.	76.	0.	642.	36.	18.	3.	1281.00
.04	.00	10.95	2.15	.000	.018	.030	.000	1273.70	3.09
.001318	220.	220.	220.	2	0	0	.00	110.71	113.80

#SECNO 7329.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1284.00

7329.00	8.37	1282.07	.00	.00	1283.90	1.83	.15	.00	1285.00
7100.	0.	7100.	0.	0.	654.	0.	20.	3.	1284.00
.04	.00	10.86	.00	.000	.018	.000	.000	1273.70	2.94
.001303	112.	112.	112.	2	0	0	.00	87.28	90.21

TW SPILLWAY SECTION U/S END

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
541.31	540.14	.22	541.31	540.14	.22	9	1281.840	1281.909	6997.000	7217.000

TW SPILLWAY CONTINUED

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
665.52	666.28	.11	1206.83	1206.42	.03	9	1281.872	1281.840	6777.000	6997.000

TW SPILLWAY CONTINUED

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
838.81	840.96	.26	2045.64	2047.38	.08	9	1281.978	1281.872	6557.000	6777.000

TW SPILLWAY CONTINUED

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1103.18	1103.52	.03	3148.83	3150.90	.07	9	1282.138	1281.978	6337.000	6557.000

TW SPILLWAY SECTION D/S END

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1423.95	1424.10	.01	4572.78	4575.00	.05	9	1282.300	1282.138	6117.000	6337.000

```
T1      ARIZONA CANAL AT COE SPILLWAY
T2      CORPS OF ENGINEERS DATUM
T3      ARIZONA CANAL DESIGN FLOW Q = 5150 CFS

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        0         3                                                           1281.72

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       15         0        -1
```

SECNO DEPTH CWSEL CRIWS WSELK EG HV HL QLOSS BANK ELEV
Q AROB VOL TWA LEFT/RIGHT
T XNR WTN ELMIN SSTA
S ICONT CORAR TOPWID ENDST

Extended X-Section - Right Bank = Spillway

#PRO

CCHV=
#SECN
3280

3495 84.20 ELREA= 1280.50

611 .21 .00 .00 1284.20
2 44. 0. 0. 1280.50
.00 .00 3.70 .81 .000 .018 .030 .000 1273.20 2.48
.000144 0. 0. 0. 0 0 0 .00 111.22 113.70

#SECNO 6337.000
3280 CROSS SECTION 6337.00 EXTENDED 2.04 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.20 ELREA= 1280.60

6337.00 8.34 1281.64 .00 .00 1282.03 .38 .04 .05 1284.20
3303. 0. 3263. 40. 0. 653. 39. 4. 1. 1280.60
.01 .00 4.99 1.03 .000 .018 .030 .000 1273.30 2.58
.000269 220. 220. 220. 2 0 0 .00 111.12 113.70

#SECNO 6557.000
3280 CROSS SECTION 6557.00 EXTENDED 1.89 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.50 ELREA= 1280.70

6557.00 8.19 1281.59 .00 .00 1282.15 .57 .07 .06 1284.50
3930. 0. 3888. 42. 0. 639. 35. 7. 1. 1280.70
.02 .00 6.08 1.19 .000 .018 .030 .000 1273.40 2.89
.000408 220. 220. 220. 2 0 0 .00 110.81 113.70

#SECNO 6777.000
3280 CROSS SECTION 6777.00 EXTENDED 1.77 FEET

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

#PROF 2

CCHV= .100 CEHV= .300
#SECNO 6117.000
3280 CROSS SECTION 6117.00 EXTENDED 2.22 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.20 ELREA= 1280.50

6117.00	8.52	1281.72	.00	1281.72	1281.93	.21	.00	.00	1284.20
2508.	0.	2473.	35.	0.	668.	44.	0.	0.	1280.50
.00	.00	3.70	.81	.000	.018	.030	.000	1273.20	2.48
.000144	0.	0.	0.	0	0	0	.00	111.22	113.70

#SECNO 6337.000
3280 CROSS SECTION 6337.00 EXTENDED 2.04 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.20 ELREA= 1280.60

6337.00	8.34	1281.64	.00	.00	1282.03	.38	.04	.05	1284.20
3303.	0.	3263.	40.	0.	653.	39.	4.	1.	1280.60
.01	.00	4.99	1.03	.000	.018	.030	.000	1273.30	2.58
.000269	220.	220.	220.	2	0	0	.00	111.12	113.70

#SECNO 6557.000
3280 CROSS SECTION 6557.00 EXTENDED 1.89 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.50 ELREA= 1280.70

6557.00	8.19	1281.59	.00	.00	1282.15	.57	.07	.06	1284.50
3930.	0.	3888.	42.	0.	639.	35.	7.	1.	1280.70
.02	.00	6.08	1.19	.000	.018	.030	.000	1273.40	2.89
.000408	220.	220.	220.	2	0	0	.00	110.81	113.70

#SECNO 6777.000
3280 CROSS SECTION 6777.00 EXTENDED 1.77 FEET

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.50 ELREA= 1280.80

6777.00	8.07	1281.57	.00	.00	1282.31	.75	.10	.05	1284.50
4426.	0.	4384.	41.	0.	629.	32.	10.	2.	1280.80
.03	.00	6.97	1.29	.000	.018	.030	.000	1273.50	2.93
.000546	220.	220.	220.	2	0	0	.00	110.57	113.50

#SECNO 6997.000
3280 CROSS SECTION 6997.00 EXTENDED 1.68 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1280.90

6997.00	7.98	1281.58	.00	.00	1282.50	.91	.13	.05	1285.00
4832.	0.	4791.	41.	0.	622.	29.	14.	2.	1280.90
.04	.00	7.70	1.38	.000	.018	.030	.000	1273.60	3.39
.000677	220.	220.	220.	2	0	0	.00	110.11	113.50

#SECNO 7217.000
3280 CROSS SECTION 7217.00 EXTENDED 1.65 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1281.00

7217.00	7.95	1281.65	.00	.00	1282.70	1.05	.16	.04	1285.00
5150.	0.	5108.	42.	0.	619.	29.	17.	3.	1281.00
.05	.00	8.25	1.45	.000	.018	.030	.000	1273.70	3.35
.000780	220.	220.	220.	2	0	0	.00	110.45	113.80

#SECNO 7329.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1284.00

7329.00	8.03	1281.73	.00	.00	1282.79	1.05	.09	.00	1285.00
5150.	0.	5150.	0.	0.	625.	0.	19.	3.	1284.00
.05	.00	8.24	.00	.000	.018	.000	.000	1273.70	3.27
.000786	112.	112.	112.	2	0	0	.00	86.59	89.85

TW SPILLWAY SECTION U/S END

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSND	USSND
317.92	319.09	.37	317.92	319.09	.37	7	1281.583	1281.649	6997.000	7217.000

TW SPILLWAY CONTINUED

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSND	USSND
406.51	406.80	.07	724.43	725.89	.20	7	1281.566	1281.583	6777.000	6997.000

TW SPILLWAY CONTINUED

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSND	USSND
495.57	495.73	.03	1220.00	1221.62	.13	7	1281.586	1281.566	6557.000	6777.000

TW SPILLWAY CONTINUED

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSND	USSND
626.86	625.84	.16	1846.85	1847.46	.03	7	1281.643	1281.586	6337.000	6557.000

TW SPILLWAY SECTION D/S END

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSND	USSND
795.34	794.95	.05	2642.19	2642.41	.01	7	1281.720	1281.643	6117.000	6337.000

THIS RUN EXECUTED 8/21/90 14:22:51

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HEC2 RELEASE DATED SEPT 88

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

ARIZONA CANAL EXISTING

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
6117.000	.00	.00	.00	1273.20	2527.22	1282.30	.00	1282.48	1.15	3.45	776.62	2360.46
6117.000	.00	.00	.00	1273.20	2507.81	1281.72	.00	1281.93	1.44	3.70	711.94	2093.04
6337.000	220.00	.00	.00	1273.30	3951.17	1282.14	.00	1282.61	3.11	5.58	747.76	2239.00
6337.000	220.00	.00	.00	1273.30	3303.15	1281.64	.00	1282.03	2.69	4.99	692.60	2015.27
6557.000	220.00	.00	.00	1273.40	5054.35	1281.98	.00	1282.82	5.69	7.40	718.13	2118.50
6557.000	220.00	.00	.00	1273.40	3930.00	1281.59	.00	1282.15	4.08	6.08	674.61	1945.25
6777.000	220.00	.00	.00	1273.50	5893.17	1281.87	.00	1283.08	8.45	8.88	695.24	2027.24
6777.000	220.00	.00	.00	1273.50	4425.57	1281.57	.00	1282.31	5.46	6.97	661.25	1893.79
6997.000	220.00	.00	.00	1273.60	6558.69	1281.84	.00	1283.40	11.10	10.07	679.92	1968.41
6997.000	220.00	.00	.00	1273.60	4832.08	1281.58	.00	1282.50	6.77	7.70	651.43	1857.48
7217.000	220.00	.00	.00	1273.70	7100.00	1281.91	.00	1283.75	13.18	10.95	677.12	1955.60
7217.000	220.00	.00	.00	1273.70	5150.00	1281.65	.00	1282.70	7.80	8.25	648.36	1844.20
7329.000	112.00	.00	.00	1273.70	7100.00	1282.07	.00	1283.90	13.03	10.86	653.82	1967.16
7329.000	112.00	.00	.00	1273.70	5150.00	1281.73	.00	1282.79	7.86	8.24	624.94	1836.96

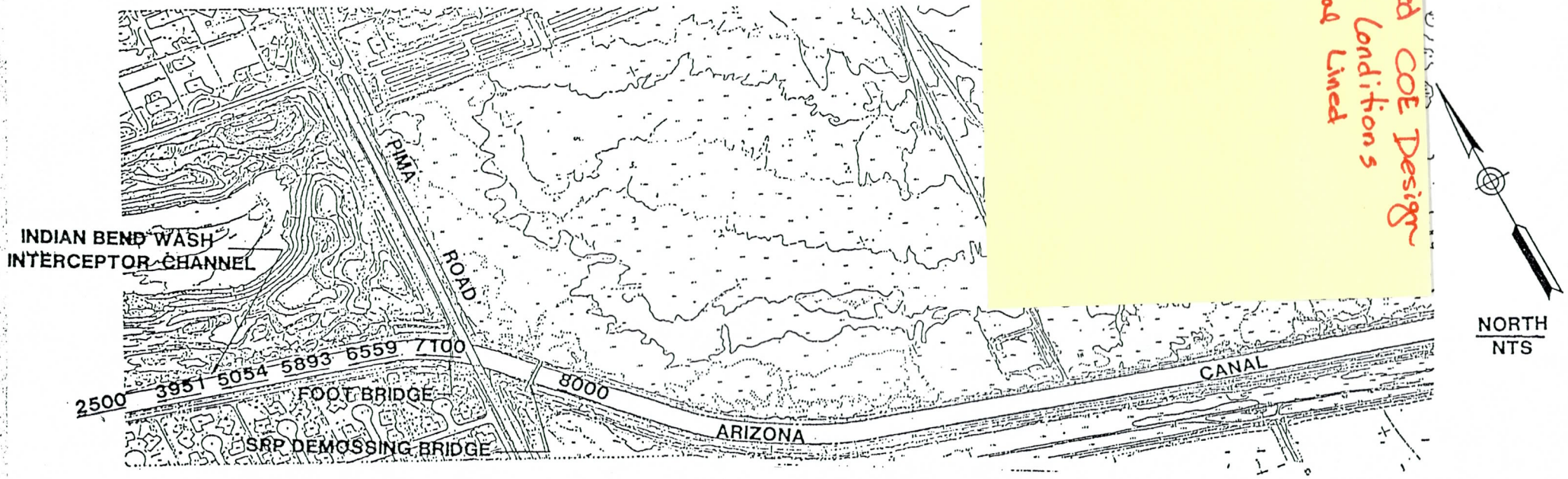
ARIZONA CANAL EXISTING

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
6117.000	2527.22	1282.30	.00	.00	.00	111.80	.00
6117.000	2507.81	1281.72	-.58	.00	.00	111.22	.00
6337.000	3951.17	1282.14	.00	-.16	.00	111.62	220.00
6337.000	3303.15	1281.64	-.49	-.08	.00	111.12	220.00
6557.000	5054.35	1281.98	.00	-.16	.00	111.20	220.00
6557.000	3930.00	1281.59	-.39	-.06	.00	110.81	220.00
6777.000	5893.17	1281.87	.00	-.11	.00	110.87	220.00
6777.000	4425.57	1281.57	-.31	-.02	.00	110.57	220.00
6997.000	6558.69	1281.84	.00	-.03	.00	110.37	220.00
6997.000	4832.08	1281.58	-.26	.02	.00	110.11	220.00
7217.000	7100.00	1281.91	.00	.07	.00	110.71	220.00
7217.000	5150.00	1281.65	-.26	.07	.00	110.45	220.00
7329.000	7100.00	1282.07	.00	.16	.00	87.28	112.00
7329.000	5150.00	1281.73	-.34	.08	.00	86.59	112.00

SUMMARY OF ERRORS AND SPECIAL NOTES

Simulated COE Design
As-Built Conditions
AZ Canal Lined



LEGEND

7100 FLOW , CFS , COE DESIGN

—— FLOW PATH

PROFILE I

ARIZONA CANAL (LINED)

Q:8000 CFS UPSTREAM OF PIMA ROAD BRIDGE

Q:7100 CFS THRU PIMA ROAD BRIDGE

Q:2500 CFS DOWNSTREAM OF COE SPILLWAY

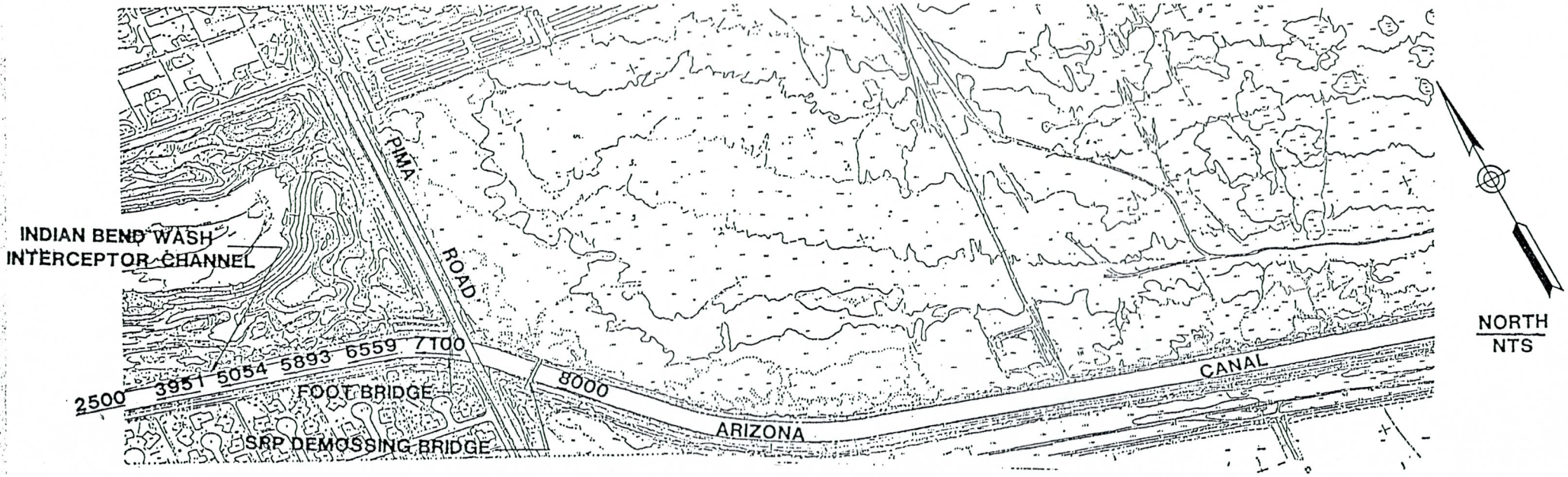
APPENDIX C

HEC-2 COMPUTER MODEL

SIMULATED COE DESIGN

AS-BUILT CONDITIONS

ARIZONA CANAL (LINED) ONLY



LEGEND

7100 FLOW , CFS , COE DESIGN

—— FLOW PATH

PROFILE I

ARIZONA CANAL (LINED)

Q:8000 CFS UPSTREAM OF PIMA ROAD BRIDGE

Q:7100 CFS THRU PIMA ROAD BRIDGE

Q:2500 CFS DOWNSTREAM OF COE SPILLWAY

APPENDIX C

HEC-2 COMPUTER MODEL

SIMULATED COE DESIGN

AS-BUILT CONDITIONS

ARIZONA CANAL (LINED) ONLY

```
**************************************************
*  WATER SURFACE PROFILES                        *
*  VERSION OF SEPTEMBER 1988                     *
*                                                *
*                                                *
*  RUN DATE     9/ 5/90   TIME   15:24:34        *
**************************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  THE HYDROLOGIC ENGINEERING CENTER   *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616             *
*  (916) 756-1104                      *
****************************************
```

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

END OF BANNER

THIS RUN EXECUTED 9/ 5/90 15:24:34

****
HEC2 RELEASE DATED SEPT 88

****

****
* F I N A L *
****

* * * * * * * * * * * * * * * * * * *
* A P P E N D I X C *
* * * * * * * * * * * * * * * * * * *

THIS FILE IS NAMED: APNDXCR.IN

THIS MODEL IS FOR THE COE DESIGN CONDITIONS

DATUM IS CORPS OF ENGINEERS (COE)

NO AS-BUILT SURVEY AVAILABLE
CROSS-SECTION DATA IS FROM COE PLANS
AND ADOT AERIAL TOPO PLANS

-------- USE FOR ARIZONA CANAL ONLY ---------

THE STARTING WATER SURFACE ELEVATION IS FROM COE DESIGN MEMO 4, PAGE V-3
WATER SURFACE ELEVATION AT 1,280.5 FEET FOR Q = 2,500 CFS AT
THE ARIZONA CANAL SIPHON RADIAL GATES (CLOSED).

APPENDIX B DATA USED FOR THE COE SPILLWAY

T1 EXISTING CONDITIONS Q = 2500 CFS TO Q = 8000 CFS
T2 CORPS OF ENGINEERS DATUM
T3 ARIZONA CANAL ONLY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2							1280.50	

Hayden Rd - check Bridge info

Normal Bridge Portion

J2	NPRO					ALLDC	IBW	CHNIM	ITRACE	
	1									
NC	0.									
QT										
NH										
X1	591.2	9	20	76.001	0	0	0			
X3	10									
GR	1281.4	20	1271.4	20.001	1271.4	76	1281.4	76.001	1279.9	276
GR	1269.9	336	1268.9	386	1269.9	436	1280.4	496		
NH	2	0.018	76.001	0.030	496					
X1	605.2				14	14	14			
X3	10									
NH	2	0.018	90	0.030	510					
X1	631.2	9	0	90	26	26	26			
X3	10									
GR	1281.4	0	1271.4	10	1271.4	80	1281.4	90	1281.4	110
GR	1279.5	290	1269.5	350	1269.5	450	1280.0	510		
NH	2	0.018	90	0.030	516					
X1	1000.0	9	0	90	369	369	369			
X3	10									
GR	1281.4	0	1271.5	10	1271.5	80	1281.4	90	1280.0	246
GR	1269.7	306	1268.7	381	1269.7	456	1280.0	516		
NH	2	0.018	90	0.030	516					
X1	1200.0	0	0	0	200	200	200			
X3	10									
NH	2	0.018	90	0.030	510					
X1	1600.0	8	0	90	400	400	400			
X3	10									
GR	1281.7	0	1271.6	10	1271.6	80	1281.7	90	1280.0	260
GR	1269.9	300	1269.9	450	1280.0	510				

HAYDEN BRIDGE DOWNSTREAM

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	1	0	-1								
NC	0.030	0.030	0.018	.1	.3						
QT	1	2500									

ARIZONA CANAL INDIAN BEND WASH RADIAL GATES

NH	2	0.018	76.001	0.030	496					
X1	591.2	9	20	76.001	0	0	0			
X3	10									
GR	1281.4	20	1271.4	20.001	1271.4	76	1281.4	76.001	1279.9	276
GR	1269.9	336	1268.9	386	1269.9	436	1280.4	496		
NH	2	0.018	76.001	0.030	496					
X1	605.2				14	14	14			
X3	10									
NH	2	0.018	90	0.030	510					
X1	631.2	9	0	90	26	26	26			
X3	10									
GR	1281.4	0	1271.4	10	1271.4	80	1281.4	90	1281.4	110
GR	1279.5	290	1269.5	350	1269.5	450	1280.0	510		
NH	2	0.018	90	0.030	516					
X1	1000.0	9	0	90	369	369	369			
X3	10									
GR	1281.4	0	1271.5	10	1271.5	80	1281.4	90	1280.0	246
GR	1269.7	306	1268.7	381	1269.7	456	1280.0	516		
NH	2	0.018	90	0.030	516					
X1	1200.0	0	0	0	200	200	200			
X3	10									
NH	2	0.018	90	0.030	510					
X1	1600.0	8	0	90	400	400	400			
X3	10									
GR	1281.7	0	1271.6	10	1271.6	80	1281.7	90	1280.0	260
GR	1269.9	300	1269.9	450	1280.0	510				

HAYDEN BRIDGE DOWNSTREAM

NC	0	0	0	.3	.5					
NH	2	0.018	93.8	0.030	494					
X1	1895.0	39	7.5	93.8	295	295	295			
X2				1283.3	1284.3					
X3	10									
GR	1283.2	7.5	1271.7	15	1271.7	50	1283.2	50.001	1283.2	51.3
GR	1271.7	51.301	1271.7	86.3	1283.3	93.8	1283.2	274	1280.2	274.001
GR	1274.2	301	1283.3	301.001	1283.3	303	1274.0	303.001	1270.1	313
GR	1270.0	333	1283.3	333.001	1283.3	335	1270.0	335.001	1270.0	368
GR	1283.3	368.001	1283.3	370	1269.5	370.001	1269.1	389	1269.5	407
GR	1283.3	407.001	1283.3	409	1269.5	409.001	1270.0	430	1283.3	430.001
GR	1283.3	432	1270.1	432.001	1270.1	455	1274.0	465	1283.3	465.001
GR	1283.3	467	1274.2	467.001	1283.0	493.999	1283.3	494		

HAYDEN BRIDGE UPSTREAM

NH	2	0.018	93.8	0.030	494					
X1	1985.0	0	0	0	90	90	90			
X2				1283.3	1284.3					
X3	10									
NC				.1	.3					
NH	2	0.018	92	0.030	519					
X1	2500.0	9	0	92	515	515	515			
X3	10									
GR	1283.3	0	1271.9	11.4	1271.9	81.4	1283.3	92	1280.0	253
GR	1270.4	311	1269.4	386	1270.4	461	1280.0	519		
NH	2	0.018	91	0.030	498					
X1	2900.0	9	0	91	400	400	400			
X3	10									
GR	1282.9	0	1272.0	10.9	1272.0	80	1282.9	91	1280.0	249
GR	1270.6	307	1269.6	382	1270.6	440	1280.0	498		
NH	2	0.018	91	0.030	476.3					
X1	3155.1	9	0	91	255	255	255			
X3	10									
GR	1282.9	0	1272.1	10	1272.1	80	1282.9	91	1280.5	243
GR	1270.7	303	1269.7	378	1270.7	453	1280.0	476.3		
NH	2	0.018	92	0.030	511					
X1	3365.0	9	0	92	210	210	210			
X3	10									
GR	1282.9	0	1272.2	11	1272.2	81	1282.9	92	1280.5	243
GR	1270.8	303	1269.8	378	1270.8	453	1280.0	511		

```
NH      2     0.018      92     0.030     498
X1   4000.0       9       0        92     635     635     635
X3     10
GR   1283.1       0  1272.4        11  1272.4      81  1283.1      92  1280.6     237
GR   1271.1     294  1270.1       369  1271.1     444  1280.0     498

NH      2     0.018      90     0.030     530
X1   4350.0       9       0        90     350     350     350
X3     10
GR   1282.8       0  1272.5        10  1272.5      80  1282.8      90  1280.7     263
GR   1271.3     319  1270.3       394  1271.3     469  1281.5     530

NH      2     0.018      90     0.030     480
X1   4800.0       9       0        90     450     450     450
X3     10
GR   1282.4       0  1272.7        10  1272.7      80  1282.4      90  1280.9     230
GR   1271.5     277  1270.5       352  1271.5     427  1280.9     480

NH      2     0.018      90     0.030     494
X1   5300.0       9       0        90     500     500     500
X3     10
GR   1283.1       0  1272.9        11  1272.9      81  1283.1      90  1281.0     233
GR   1271.8     287  1270.8       362  1271.8     437  1281.5     494

NH      2     0.018      92     0.030     480
X1   5850.0       9       0        92     550     550     550
X3     10
GR   1283.8       0  1273.1        11  1273.1      81  1283.8      92  1281.4     223
GR   1272.0     273  1271.0       348  1272.0     423  1281.5     480

NH      2     0.018      90     0.030   486.8
X1   5900.0       9       0        90      50      50      50
X3     10
GR   1284.2       0  1273.2        11  1273.2      80  1284.0      90  1281.4   226.6
GR   1272.0     283  1271.0       358  1272.0     433  1281.5   486.8

NH      2     0.018      90     0.030   486.8
X1   6010.0       0       0         0     110     110     110
X3     10

        BEGIN COE SPILLWAY DOWNSTREAM

QT      1      2500
NH      2     0.018    88.3     0.030     395
X1   6117.0       9       0      88.3     107     107     107
X3     10
GR   1284.2       0  1273.2        11  1273.2      81  1280.5    88.3  1279.5   113.7
GR   1272.6     146  1271.6       266  1272.6     341  1281.5     395
```

```
QT       1      3951
NH       2     0.018      88.3     0.030       304
X1  6337.0         9         0      88.3       220       220       220
X3      10
GR  1284.5         0    1273.3        11    1273.3        81    1280.6      88.3    1279.6     113.7
GR  1272.2       134    1271.2       189    1272.2       244    1280.5       304

QT       1      5054
NH       2     0.018      88.3     0.030       336
X1  6557.0         9         0      88.3       220       220       220
X3      10
GR  1284.5         0    1273.4        11    1273.4        81    1280.7      88.3    1279.9     115.4
GR  1272.4       134    1271.4       215    1272.4       280    1281.7       336

QT       1      5893
NH       2     0.018      88.3     0.030       304
X1  6777.0         9         0      88.3       220       220       220
X3      10
GR  1284.5         0    1273.5        11    1273.5        81    1280.8      88.3    1280.6     113.5
GR  1272.2       134    1271.2       189    1272.2       244    1280.5       304

QT       1      6558
NH       2     0.018      88.8     0.030       260
X1  6997.0         9         0      88.8       220       220       220
X3      10
GR  1285.0         0    1273.6      11.3    1273.6      81.3    1280.9      88.8    1280.8     113.8
GR  1272.7     141.8    1271.7     176.5    1272.7     206.5    1280.5       260

        END COE SPILLWAY UPSTREAM


QT       1      7100
NH       2     0.018      89.6     0.030       260
X1  7217.0         9         0      89.6       220       220       220
X3      10
GR  1285.0         0    1273.7      11.3    1273.7      81.3    1281.0      89.6    1280.0     113.8
GR  1272.7     141.8    1271.7     176.5    1272.7     206.5    1280.5       260

NC   0.030     0.030     0.018        .1        .3
X1  7329.0        12         0      88.6       112       112       112
X3      10
GR  1285.0         0    1273.7      11.3    1273.7      81.3    1284.0      88.6    1280.8     113.8
GR  1278.7     133.8    1277.8     158.8    1279.8     168.8    1281.5       179    1282.5       210
GR  1283.0       424    1284.0       500

X1  7431.0        12         0      92.3       180       180       180
X3      10
GR  1285.0         0    1273.7      11.8    1273.7      81.3    1284.7      92.3    1284.5     117.5
GR  1285.0     127.5    1278.3     142.5    1278.3     152.5    1285.0       168    1285.5       210
GR  1284.5       400    1285.0       520
```

```
X1   7452.0      10        0      92.3      161       161       161
X2                                1283.9    1284.9
X3       10
GR   1285.0       0    1273.7      11.8    1273.7      81.3    1284.7      92.3    1284.5     117.5
GR   1285.0     127.5  1278.3     142.5    1278.3     152.5    1285.0      168     1285.0     196

X1   7458.0       0        0          0         6         6         6
X2                                1283.9    1284.9
X3       10
```

PIMA ROAD DOWNSTREAM

```
NC                                  .3        .5
X1   7499.0      10        0        92        80        80        80
X3       10
GR   1285.0       0    1273.8      11.2    1273.8      81.2    1284.0      92      1284.0     118
GR   1285.1     128    1278.3     145      1278.5     155      1285.0      170     1285.0     200

SB      1.25     1.88      2.5                 70         2       800       1.0     1273.8     1273.8
```

PIMA ROAD UPSTREAM

```
X1   7532.0                                  33        33        33
X2                             1    1284.0    1286.0                                          15
X3       10
BT       4      .001    1286.0    1286.0         1    1286.0    1284.0      90      1286.0     1284.0
BT      91    1286.0    1286.0

NC       0         0         0        .1        .3
QT       1      8000
X1   7680.0      11        0        92.2      148       148       148
X3       10
GR   1285.0       0    1273.9      11.2    1273.9      81.2    1285.0      92.2    1284.8     116.4
GR   1285.0     126.0  1280.5     137.0    1282.0     332.0    1283.0      937     1284.0     1000
GR   1285.0     1285
```

SRP DEMOSSING BRIDGE DOWNSTREAM

```
NC       0         0         0        .3        .5
X1   7760.0      11        0        92        80        80        80
X3       10
GR   1285.0       0    1274.0      11      1274.0      81      1285.0      92      1283.5     122
GR   1284.0     126    1280.5     137      1282.0     332      1283.0      937     1284.0     1000
GR   1285.0     1290
```

SRP DEMOSSING BRIDGE UPSTREAM

X1	7772.0	16	0	1200	12	12	12			
X3	10									
BT	4	0.3	1284.7	1284.7	3.6	1284.7	1281.7	88.7	1284.7	1281.7
BT	91.7	1284.7	1284.7							
GR	1285.0	0	1284.7	0.3	1281.7	3.6	1274.0	11	1274.0	81
GR	1281.7	88.7	1284.7	91.7	1284.9	91.9	1283.5	122	1284.0	126
GR	1280.1	160	1280.3	290	1282.0	670	1283.0	800	1284.0	920
GR	1285.0	1200								
NC			0.018	.1	.3					
X1	8100.0	12	0	92.5	328	328	328			
X3	10									
GR	1285.5	0	1274.0	11.5	1274.0	81.5	1285.0	92.5	1285.0	122
GR	1280.7	126	1280.8	320	1281.0	402	1282.0	647	1283.0	950
GR	1284.0	1250	1285.0	1520						

BEGIN AZ CNL SPILLWAY # 1 (SRP) DOWNSTREAM NORTH BANK

X1	8600.0	12	0	92	500	500	500			
X3	10									
GR	1286.0	0	1274.5	12.5	1274.5	82.5	1284.0	92.0	1281.1	117
GR	1280.8	250	1281.0	380	1282.0	580	1283.0	956	1284.0	1200
GR	1285.0	1400	1286.0	1700						
X1	8700.0	12	0	92	100	100	100			
X3	10									
GR	1286.0	0	1274.5	12.5	1274.5	82.5	1284.0	92.0	1281.1	117
GR	1280.8	250	1281.0	380	1282.0	580	1283.0	956	1284.0	1200
GR	1285.0	1400	1286.0	1700						
X1	8920.0	12	0	92	220	220	220			
X3	10									
GR	1287.1	0	1274.6	12.5	1274.6	82.5	1284.1	92.0	1281.2	117
GR	1280.9	250	1281.0	380	1282.0	580	1283.0	956	1284.0	1200
GR	1285.0	1400	1286.0	1700						
X1	9140.0	0	0	0	220	220	220			
X3	10									
X1	9360.0	11	0	92	220	220	220			
X3	10									
GR	1287.0	0	1274.5	12.5	1274.5	82.5	1284.0	92.0	1283.6	116
GR	1281.5	400	1282.0	480	1283.0	760	1284.0	1030	1285.0	1250
GR	1286.0	1490								

```
X1   9460.0       0       0       0     100     100     100
X3        10

X1   9600.0      11       0    90.5     140     140     140
X3        10
GR   1287.1       0  1274.6    12.5  1274.6    82.5  1282.5    90.5  1280.3     100
GR   1281.0     350  1282.0     470  1283.0     690  1284.0    1070  1285.0    1270
GR   1286.0    1450

X1   9770.0       0       0       0     170     170     170
X3        10

X1   9800.0      11       0      90      30      30      30
X3        10
GR   1287.0       0  1274.7    12.5  1274.7    82.0  1282.5      90  1280.3     100
GR   1281.1     360  1282.0     480  1283.0     680  1284.0    1060  1285.0    1200
GR   1286.0    1500

X1   9885.0      12       0      90      85      85      85
X3        10
GR   1287.0       0  1274.7    12.5  1274.7    82.0  1282.5      90  1280.3     125
GR   1281.5     200  1281.0     350  1282.0     400  1283.0     600  1284.0     750
GR   1285.0    1200  1286.0    1220

X1   9900.0      11       0      90      39      39      39
X3        10
GR   1286.8       0  1274.8      12  1274.8      82  1282.5      90  1280.3     150
GR   1281.5     210  1282.0     400  1283.0     600  1284.0     750  1285.0    1060
GR   1286.0    1220

X1   10000.       0       0       0     100     100     100
X3        10

NH        2   0.018      90   0.030    1550
X1   10600.      11       0      90     600     600     600
X3        10
GR   1287.0       0  1275.0      12  1275.0      82  1283.0      90  1283.2     100
GR   1282.0     260  1283.0     590  1284.0     840  1285.0    1120  1286.0    1380
GR   1286.9    1550

NH        2   0.018      90   0.030    1550
X1   11100.      12       0      90     500     500     500
X3        10
GR   1287.2       0  1275.2      12  1275.2      82  1283.2      90  1283.2     100
GR   1281.3     190  1282.0     230  1283.0     590  1284.0     850  1285.0    1190
GR   1286.0    1380  1287.0    1550
```

END ARIZONA CANAL SPILLWAY # 1 (SRP)
UPSTREAM NORTH BANK

NH	2	0.018	90.8	0.030	1550					
X1	11200.	12	0	90.8	100	100	100			
X3	10									
GR	1286.7	0	1275.2	11.5	1275.2	81.5	1285.5	90.8	1283.2	100
GR	1282.0	190	1282.0	230	1283.0	590	1284.0	850	1285.0	1190
GR	1286.0	1380	1287.0	1550						
NH	2	0.018	90.8	0.030	1500					
X1	11400.	11	0	90.8	200	200	200			
X3	10									
GR	1286.8	0	1275.3	11.5	1275.3	81.5	1285.6	90.8	1283.2	100
GR	1282.0	230	1283.0	590	1284.0	850	1285.0	1190	1286.0	1380
GR	1287.0	1500								
NH	2	0.018	90.8	0.030	1500					
X1	11900.	11	0	90.8	500	500	500			
X3	10									
GR	1287.0	0	1275.5	11.5	1275.5	81.5	1285.8	90.8	1283.2	100
GR	1282.0	230	1283.0	590	1284.0	850	1285.0	1190	1286.0	1380
GR	1287.0	1500								

BEGIN ARIZONA CANAL SPILLWAY # 2 (SRP)
DOWNSTREAM NORTH BANK

NH	2	0.018	90.8	0.030	1680					
X1	12300.	12	0	90.8	400	400	400			
X3	10									
GR	1287.1	0	1275.6	11.5	1275.6	81.5	1285.9	90.8	1283.2	100
GR	1282.0	230	1283.0	590	1284.0	850	1285.0	1190	1286.0	1380
GR	1287.0	1500	1288.0	1680						
NH	2	0.018	89.5	0.030	1680					
X1	12400.	11	0	89.5	100	100	100			
X3	10									
GR	1287.2	0	1275.7	11.5	1275.7	81.5	1283.7	89.5	1283.3	100
GR	1282.0	230	1283.0	590	1284.0	850	1285.0	1190	1286.0	1380
GR	1287.0	1680								
NH	2	0.018	89.5	0.030	1500					
X1	12900.	12	0	89.5	500	500	500			
X3	10									
GR	1287.4	0	1275.9	11.5	1275.9	81.5	1283.9	89.5	1283.4	100
GR	1282.2	230	1283.0	590	1284.0	850	1285.0	1190	1285.5	1270
GR	1286.0	1380	1287.0	1500						

96TH STREET/DOBSON ROAD EXTENDED
END COE AS-BUILT PLANS

```
NH       2      0.018        89      0.030       1680
X1   13200.        12         0         89        300        300        300
X3      10
GR   1287.0         0    1276.0         11     1276.0         81     1284.0         89     1283.5        100
GR   1282.3       230    1283.0        590     1284.0        850     1285.0       1190     1286.0       1380
GR   1287.0      1500    1287.5       1680

NH       2      0.018        89      0.030       1680
X1   13600.        12         0         89        400        400        400
X3      10
GR   1287.0         0    1276.2         11     1276.2         81     1284.2         89     1283.7        100
GR   1282.2       230    1283.0        590     1284.0        850     1285.0       1190     1286.0       1380
GR   1287.0      1500    1288.0       1680
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END ARIZONA CANAL SPILLWAY # 2 (SRP) (ESTIMATED)
UPSTREAM NORTH BANK

```
NH       2      0.018        92      0.030       1680
X1   13700.        12         0         92        100        100        100
X3      10
GR   1287.1         0    1276.2         11     1276.2         81     1287.2         92     1283.6        100
GR   1282.2       230    1283.0        590     1284.0        850     1285.0       1190     1286.0       1380
GR   1287.0      1500    1288.7       1680

NH       2      0.018        92      0.030       1680
X1   13800.         0         0          0        100        100        100
X3      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

#PROF 1

CCHV= .100 CEHV= .300
1490 NH CARD USED
#SECNO 591.200
3280 CROSS SECTION 591.20 EXTENDED .10 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

591.20	9.10	1280.50	.00	1280.50	1280.87	.37	.00	.00	1281.40
2500.	0.	2500.	0.	0.	510.	0.	0.	0.	1281.40
.00	.00	4.91	.00	.000	.018	.000	.000	1271.40	20.00
.000270	0.	0.	0.	0	0	0	.00	56.00	76.00

1490 NH CARD USED
#SECNO 605.200
3280 CROSS SECTION 605.20 EXTENDED .10 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

605.20	9.10	1280.50	.00	.00	1280.88	.37	.00	.00	1281.40
2500.	0.	2500.	0.	0.	510.	0.	0.	0.	1281.40
.00	.00	4.90	.00	.000	.018	.000	.000	1271.40	20.00
.000270	14.	14.	14.	0	0	0	.00	56.00	76.00

1490 NH CARD USED
#SECNO 631.200
3280 CROSS SECTION 631.20 EXTENDED .72 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

631.20	9.32	1280.72	.00	.00	1280.90	.18	.00	.02	1281.40
2500.	0.	2500.	0.	0.	740.	0.	1.	0.	1281.40
.00	.00	3.38	.00	.000	.018	.000	.000	1271.40	.68
.000111	26.	26.	26.	2	0	0	.00	88.65	89.32

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

1490 NH CARD USED
#SECNO 1000.000
3280 CROSS SECTION 1000.00 EXTENDED .76 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

1000.00	9.26	1280.76	.00	.00	1280.94	.18	.04	.00	1281.40
2500.	0.	2500.	0.	0.	735.	0.	7.	1.	1281.40
.03	.00	3.40	.00	.000	.018	.000	.000	1271.50	.64
.000113	369.	369.	369.	2	0	0	.00	88.71	89.36

1490 NH CARD USED
#SECNO 1200.000
3280 CROSS SECTION 1200.00 EXTENDED .79 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

1200.00	9.29	1280.79	.00	.00	1280.97	.18	.02	.00	1281.40
2500.	0.	2500.	0.	0.	737.	0.	10.	1.	1281.40
.05	.00	3.39	.00	.000	.018	.000	.000	1271.50	.62
.000112	200.	200.	200.	0	0	0	.00	88.76	89.38

1490 NH CARD USED
#SECNO 1600.000
3280 CROSS SECTION 1600.00 EXTENDED .83 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.70 ELREA= 1281.70

1600.00	9.23	1280.83	.00	.00	1281.01	.18	.05	.00	1281.70
2500.	0.	2500.	0.	0.	731.	0.	17.	2.	1281.70
.08	.00	3.42	.00	.000	.018	.000	.000	1271.60	.86
.000115	400.	400.	400.	0	0	0	.00	88.28	89.14

CCHV= .300 CEHV= .500
1490 NH CARD USED
#SECNO 1895.000

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

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.30 MAX ELLC= 1283.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1283.30

1895.00	9.16	1280.86	.00	.00	1281.06	.20	.04	.01	1283.20
2500.	0.	2500.	0.	0.	696.	0.	22.	3.	1283.30
.10	.00	3.59	.00	.000	.018	.000	.000	1271.70	9.02
.000162	295.	295.	295.	0	0	0	.00	81.90	92.22

1490 NH CARD USED
#SECNO 1985.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.30 MAX ELLC= 1283.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1283.30

1985.00	9.18	1280.88	.00	.00	1281.08	.20	.01	.00	1283.20
2500.	0.	2500.	0.	0.	697.	0.	23.	3.	1283.30
.11	.00	3.59	.00	.000	.018	.000	.000	1271.70	9.02
.000162	90.	90.	90.	0	0	0	.00	81.91	92.23

CCHV= .100 CEHV= .300
1490 NH CARD USED
#SECNO 2500.000
3280 CROSS SECTION 2500.00 EXTENDED .96 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.30 ELREA= 1283.30

2500.00	9.06	1280.96	.00	.00	1281.15	.19	.07	.00	1283.30
2500.	0.	2500.	0.	0.	713.	0.	32.	4.	1283.30
.15	.00	3.50	.00	.000	.018	.000	.000	1271.90	2.34
.000123	515.	515.	515.	0	0	0	.00	87.48	89.82

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

1490 NH CARD USED
#SECNO 2900.000
3280 CROSS SECTION 2900.00 EXTENDED 1.01 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1282.90

2900.00	9.00	1281.00	.00	.00	1281.20	.20	.05	.00	1282.90
2500.	0.	2500.	0.	0.	704.	0.	38.	5.	1282.90
.18	.00	3.55	.00	.000	.018	.000	.000	1272.00	1.89
.000127	400.	400.	400.	1	0	0	.00	87.20	89.09

1490 NH CARD USED
#SECNO 3155.100
3280 CROSS SECTION 3155.10 EXTENDED 1.04 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1282.90

3155.10	8.94	1281.04	.00	.00	1281.23	.20	.03	.00	1282.90
2500.	0.	2500.	0.	0.	703.	0.	42.	5.	1282.90
.20	.00	3.56	.00	.000	.018	.000	.000	1272.10	1.73
.000128	255.	255.	255.	0	0	0	.00	87.38	89.10

1490 NH CARD USED
#SECNO 3365.000
3280 CROSS SECTION 3365.00 EXTENDED 1.06 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1282.90

3365.00	8.86	1281.06	.00	.00	1281.26	.20	.03	.00	1282.90
2500.	0.	2500.	0.	0.	701.	0.	46.	6.	1282.90
.22	.00	3.57	.00	.000	.018	.000	.000	1272.20	1.89
.000131	210.	210.	210.	0	0	0	.00	88.22	90.11

1490 NH CARD USED
#SECNO 4000.000
3280 CROSS SECTION 4000.00 EXTENDED 1.15 FEET

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.10 ELREA= 1283.10

4000.00	8.74	1281.14	.00	.00	1281.35	.20	.08	.00	1283.10
2500.	0.	2500.	0.	0.	691.	0.	56.	7.	1283.10
.27	.00	3.62	.00	.000	.018	.000	.000	1272.40	2.01
.000137	635.	635.	635.	0	0	0	.00	87.98	89.99

1490 NH CARD USED
#SECNO 4350.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.80 ELREA= 1282.80

4350.00	8.69	1281.19	.00	.00	1281.40	.21	.05	.00	1282.80
2500.	0.	2500.	0.	0.	682.	0.	61.	8.	1282.80
.30	.00	3.67	.00	.000	.018	.000	.000	1272.50	1.56
.000141	350.	350.	350.	0	0	0	.00	86.88	88.44

1490 NH CARD USED
#SECNO 4800.000
3280 CROSS SECTION 4800.00 EXTENDED .35 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.40 ELREA= 1282.40

4800.00	8.55	1281.25	.00	.00	1281.46	.21	.06	.00	1282.40
2500.	0.	2500.	0.	0.	674.	0.	68.	8.	1282.40
.33	.00	3.71	.00	.000	.018	.000	.000	1272.70	1.18
.000147	450.	450.	450.	0	0	0	.00	87.63	88.82

1490 NH CARD USED
#SECNO 5300.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.10 ELREA= 1283.10

5300.00	8.42	1281.32	.00	.00	1281.54	.22	.08	.00	1283.10
2500.	0.	2500.	0.	0.	659.	0.	76.	9.	1283.10
.37	.00	3.79	.00	.000	.018	.000	.000	1272.90	1.92
.000156	500.	500.	500.	0	0	0	.00	86.51	88.43

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

1490 NH CARD USED
#SECNO 5850.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.80 ELREA= 1283.80

5850.00	8.30	1281.40	.00	.00	1281.63	.23	.09	.00	1283.80
2500.	0.	2500.	0.	0.	652.	0.	84.	10.	1283.80
.41	.00	3.83	.00	.000	.018	.000	.000	1273.10	2.46
.000163	550.	550.	550.	0	0	0	.00	87.07	89.54

1490 NH CARD USED
#SECNO 5900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1284.00

5900.00	8.20	1281.40	.00	.00	1281.64	.24	.01	.00	1284.20
2500.	0.	2500.	0.	0.	631.	0.	85.	11.	1284.00
.41	.00	3.96	.00	.000	.018	.000	.000	1273.20	2.79
.000176	50.	50.	50.	1	0	0	.00	84.80	87.60

1490 NH CARD USED
#SECNO 6010.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1284.00

6010.00	8.22	1281.42	.00	.00	1281.66	.24	.02	.00	1284.20
2500.	0.	2500.	0.	0.	632.	0.	86.	11.	1284.00
.42	.00	3.95	.00	.000	.018	.000	.000	1273.20	2.78
.000175	110.	110.	110.	0	0	0	.00	84.83	87.61

1490 NH CARD USED
#SECNO 6117.000
3280 CROSS SECTION 6117.00 EXTENDED .18 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1280.50

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
6117.00	8.48	1281.68	.00	.00	1281.69	.01	.00	.02	1284.20
2500.	0.	745.	1755.	0.	665.	2342.	91.	11.	1280.50
.45	.00	1.12	.75	.000	.018	.030	.000	1273.20	2.52
.000013	107.	107.	107.	2	0	0	.00	392.48	395.00

1490 NH CARD USED
#SECNO 6337.000
3280 CROSS SECTION 6337.00 EXTENDED 1.15 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.50 ELREA= 1280.60

6337.00	8.35	1281.65	.00	.00	1281.71	.06	.01	.01	1284.50
3951.	0.	1521.	2430.	0.	653.	1570.	104.	13.	1280.60
.48	.00	2.33	1.55	.000	.018	.030	.000	1273.30	2.79
.000058	220.	220.	220.	2	0	0	.00	301.21	304.00

1490 NH CARD USED
#SECNO 6557.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.50 ELREA= 1280.70

6557.00	8.26	1281.66	.00	.00	1281.73	.07	.02	.01	1284.50
5054.	0.	1732.	3322.	0.	646.	1823.	116.	15.	1280.70
.51	.00	2.68	1.82	.000	.018	.030	.000	1273.40	2.81
.000078	220.	220.	220.	0	0	0	.00	332.96	335.77

1490 NH CARD USED
#SECNO 6777.000
3280 CROSS SECTION 6777.00 EXTENDED 1.14 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.50 ELREA= 1280.80

6777.00	8.14	1281.64	.00	.00	1281.77	.13	.02	.02	1284.50
5893.	0.	2228.	3665.	0.	636.	1542.	128.	16.	1280.80
.54	.00	3.50	2.38	.000	.018	.030	.000	1273.50	2.86
.000136	220.	220.	220.	2	0	0	.00	301.14	304.00

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

1490 NH CARD USED
#SECNO 6997.000
3280 CROSS SECTION 6997.00 EXTENDED 1.07 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1280.90

6997.00	7.97	1281.57	.00	.00	1281.86	.29	.04	.05	1285.00
6558.	0.	3223.	3335.	0.	622.	1026.	137.	18.	1280.90
.55	.00	5.18	3.25	.000	.018	.030	.000	1273.60	3.40
.000307	220.	220.	220.	2	0	0	.00	256.60	260.00

1490 NH CARD USED
#SECNO 7217.000
3280 CROSS SECTION 7217.00 EXTENDED 1.12 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1281.00

7217.00	7.92	1281.62	.00	.00	1281.95	.33	.07	.01	1285.00
7100.	0.	3428.	3672.	0.	621.	1053.	146.	19.	1281.00
.56	.00	5.52	3.49	.000	.018	.030	.000	1273.70	3.38
.000351	220.	220.	220.	0	0	0	.00	256.62	260.00

CCHV= .100 CEHV= .300
#SECNO 7329.000

3301 HV CHANGED MORE THAN HVINS

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.00

7329.00	6.65	1280.35	1280.35	.00	1283.44	3.09	.09	.83	1285.00
7100.	0.	7100.	0.	0.	503.	0.	149.	19.	1284.00
.57	.00	14.11	.00	.000	.018	.000	.000	1273.70	4.65
.002839	112.	112.	112.	20	11	0	.00	81.36	86.01

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 7431.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7431.00	8.36	1282.06	.00	.00	1283.90	1.84	.33	.12	1285.00
7100.	0.	7100.	0.	0.	652.	0.	151.	20.	1284.70
.57	.00	10.89	.00	.000	.018	.000	.000	1273.70	3.08
.001305	180.	180.	180.	4	0	0	.00	86.57	89.65

#SECNO 7452.000

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.90 MAX ELLC= 1283.90

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7452.00	8.75	1282.45	.00	.00	1284.11	1.66	.19	.02	1285.00
7100.	0.	7100.	0.	0.	686.	0.	153.	20.	1284.70
.57	.00	10.34	.00	.000	.018	.000	.000	1273.70	2.66
.001117	161.	161.	161.	2	0	0	.00	87.39	90.05

#SECNO 7458.000

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.90 MAX ELLC= 1283.90

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7458.00	8.76	1282.46	.00	.00	1284.12	1.66	.01	.00	1285.00
7100.	0.	7100.	0.	0.	687.	0.	154.	20.	1284.70
.57	.00	10.33	.00	.000	.018	.000	.000	1273.70	2.66
.001113	6.	6.	6.	0	0	0	.00	87.40	90.06

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

CCHV= .300 CEHV= .500
*SECNO 7499.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.00

7499.00	8.80	1282.60	.00	.00	1284.22	1.62	.09	.01	1285.00
7100.	0.	7100.	0.	0.	696.	0.	155.	20.	1284.00
.58	.00	10.20	.00	.000	.018	.000	.000	1273.80	2.40
.001077	80.	80.	80.	2	0	0	.00	88.12	90.52

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.88	2.50	.00	70.00	2.00	800.00	1.00	1273.80	1273.80

*SECNO 7532.000
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1284.90	1284.37	.25	0.	7100.	800.	798.	1284.00	1286.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.00

7532.00	9.84	1283.64	.00	.00	1284.90	1.26	.68	.00	1285.00
7100.	0.	7100.	0.	0.	789.	0.	155.	20.	1284.00
.58	.00	9.00	.00	.000	.018	.000	.000	1273.80	1.36
.000740	33.	33.	33.	4	0	0	.00	90.26	91.62

FLOW DISTRIBUTION FOR SECNO= 7532.00 CWSEL= 1283.64

STA= 1. 92.
PER Q= 100.0
AREA= 788.6
VEL= 9.0
DEPTH= 8.7

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

CCHV= .100 CEHV= .300
#SECNO 7680.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7680.00	9.55	1283.45	.00	.00	1285.17	1.72	.13	.14	1285.00
8000.	0.	8000.	0.	0.	760.	0.	158.	21.	1285.00
.58	.00	10.53	.00	.000	.018	.000	.000	1273.90	1.56
.001045	148.	148.	148.	2	0	0	.00	89.11	90.67

CCHV= .300 CEHV= .500
#SECNO 7760.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7760.00	9.53	1283.53	.00	.00	1285.26	1.73	.08	.01	1285.00
8000.	0.	8000.	0.	0.	757.	0.	159.	21.	1285.00
.58	.00	10.57	.00	.000	.018	.000	.000	1274.00	1.48
.001057	80.	80.	80.	0	0	0	.00	89.04	90.52

#SECNO 7772.000
3280 CROSS SECTION 7772.00 EXTENDED .71 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 1284.70 MAX ELLC= 1284.70

7772.00	11.72	1285.72	.00	.00	1285.77	.05	.00	.50	1285.00
8000.	0.	8000.	0.	0.	4342.	0.	160.	21.	1285.00
.59	.00	1.84	.00	.000	.018	.000	.000	1274.00	.00
.000108	12.	12.	12.	3	0	0	-264.75	1200.00	1200.00

CCHV= .100 CEHV= .300
#SECNO 8100.000

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

3280 CROSS SECTION 8100.00 EXTENDED .73 FEET

8100.00	11.73	1285.73	.00	.00	1285.81	.08	.03	.01	1285.50
8000.	0.	3259.	4741.	0.	958.	4406.	197.	31.	1285.00
.63	.00	3.40	1.08	.000	.018	.030	.000	1274.00	.00
.000086	328.	328.	328.	2	0	0	.00	1520.00	1520.00

#SECNO 8600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.00 ELREA= 1284.00

8600.00	11.27	1285.77	.00	.00	1285.85	.09	.04	.00	1286.00
8000.	0.	3199.	4801.	0.	920.	4341.	258.	49.	1284.00
.70	.00	3.48	1.11	.000	.018	.030	.000	1274.50	.25
.000092	500.	500.	500.	0	0	0	.00	1631.93	1632.18

#SECNO 8700.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.00 ELREA= 1284.00

8700.00	11.28	1285.78	.00	.00	1285.86	.09	.01	.00	1286.00
8000.	0.	3197.	4803.	0.	921.	4346.	270.	53.	1284.00
.71	.00	3.47	1.11	.000	.018	.030	.000	1274.50	.24
.000092	100.	100.	100.	0	0	0	.00	1632.89	1633.13

#SECNO 8920.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1284.10

8920.00	11.20	1285.80	.00	.00	1285.88	.09	.02	.00	1287.10
8000.	0.	3164.	4836.	0.	908.	4355.	296.	61.	1284.10
.74	.00	3.49	1.11	.000	.018	.030	.000	1274.60	1.30
.000093	220.	220.	220.	0	0	0	.00	1638.02	1639.32

#SECNO 9140.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1284.10

9140.00	11.22	1285.82	.00	.00	1285.90	.08	.02	.00	1287.10
8000.	0.	3151.	4849.	0.	910.	4387.	323.	70.	1284.10
.77	.00	3.46	1.11	.000	.018	.030	.000	1274.60	1.28
.000092	220.	220.	220.	0	0	0	.00	1644.23	1645.51

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 9360.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1284.00

9360.00	11.29	1285.79	.00	.00	1285.96	.17	.03	.03	1287.00
8000.	0.	4100.	3900.	0.	916.	3183.	347.	77.	1284.00
.79	.00	4.48	1.23	.000	.018	.030	.000	1274.50	1.21
.000152	220.	220.	220.	2	0	0	.00	1437.25	1438.47

#SECNO 9460.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1284.00

9460.00	11.30	1285.80	.00	.00	1285.97	.17	.02	.00	1287.00
8000.	0.	4089.	3911.	0.	917.	3199.	356.	81.	1284.00
.80	.00	4.46	1.22	.000	.018	.030	.000	1274.50	1.20
.000151	100.	100.	100.	0	0	0	.00	1440.16	1441.37

#SECNO 9600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1282.50

9600.00	11.29	1285.89	.00	.00	1286.00	.10	.02	.01	1287.10
8000.	0.	3396.	4604.	0.	913.	3885.	370.	85.	1282.50
.82	.00	3.72	1.19	.000	.018	.030	.000	1274.60	1.21
.000102	140.	140.	140.	2	0	0	.00	1429.28	1430.49

#SECNO 9770.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1282.50

9770.00	11.31	1285.91	.00	.00	1286.01	.10	.02	.00	1287.10
8000.	0.	3383.	4617.	0.	915.	3914.	389.	91.	1282.50
.84	.00	3.70	1.18	.000	.018	.030	.000	1274.60	1.19
.000101	170.	170.	170.	0	0	0	.00	1433.15	1434.33

#SECNO 9800.000

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1282.50

9800.00	11.21	1285.91	.00	.00	1286.02	.10	.00	.00	1287.00
8000.	0.	3377.	4623.	0.	902.	3847.	392.	92.	1282.50
.84	.00	3.75	1.20	.000	.018	.030	.000	1274.70	1.10
.000105	30.	30.	30.	0	0	0	.00	1472.93	1474.04

#SECNO 9885.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1282.50

9885.00	11.19	1285.89	.00	.00	1286.04	.16	.01	.02	1287.00
8000.	0.	3896.	4104.	0.	899.	3113.	401.	95.	1282.50
.85	.00	4.33	1.32	.000	.018	.030	.000	1274.70	1.13
.000141	85.	85.	85.	2	0	0	.00	1216.60	1217.73

#SECNO 9900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.80 ELREA= 1282.50

9900.00	11.08	1285.88	.00	.00	1286.05	.18	.01	.01	1286.80
8000.	0.	4066.	3934.	0.	895.	2880.	405.	96.	1282.50
.86	.00	4.54	1.37	.000	.018	.030	.000	1274.80	.92
.000156	39.	39.	39.	1	0	0	.00	1200.59	1201.50

#SECNO 10000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.80 ELREA= 1282.50

10000.00	11.09	1285.89	.00	.00	1286.07	.18	.02	.00	1286.80
8000.	0.	4061.	3939.	0.	896.	2888.	413.	98.	1282.50
.87	.00	4.53	1.36	.000	.018	.030	.000	1274.80	.91
.000155	100.	100.	100.	0	0	0	.00	1201.81	1202.71

1490 NH CARD USED
#SECNO 10600.000

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1283.00

10600.00	10.97	1285.97	.00	.00	1286.18	.20	.10	.01	1287.00
8000.	0.	4257.	3743.	0.	885.	2878.	465.	116.	1283.00
.92	.00	4.81	1.30	.000	.018	.030	.000	1275.00	1.02
.000178	600.	600.	600.	1	0	0	.00	1374.00	1375.02

1490 NH CARD USED
#SECNO 11100.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.20 ELREA= 1283.20

11100.00	10.90	1286.10	.00	.00	1286.26	.17	.08	.00	1287.20
8000.	0.	3948.	4052.	0.	877.	3180.	510.	132.	1283.20
.97	.00	4.50	1.27	.000	.018	.030	.000	1275.20	1.10
.000157	500.	500.	500.	2	0	0	.00	1395.35	1396.46

1490 NH CARD USED
#SECNO 11200.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.70 ELREA= 1285.50

11200.00	10.91	1286.11	.00	.00	1286.28	.17	.02	.00	1286.70
8000.	0.	3961.	4039.	0.	877.	3143.	519.	135.	1285.50
.98	.00	4.52	1.28	.000	.018	.030	.000	1275.20	.59
.000164	100.	100.	100.	0	0	0	.00	1398.69	1399.28

1490 NH CARD USED
#SECNO 11400.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.80 ELREA= 1285.60

11400.00	10.85	1286.15	.00	.00	1286.31	.17	.03	.00	1286.80
8000.	0.	3934.	4066.	0.	871.	3158.	538.	142.	1285.60
1.00	.00	4.52	1.29	.000	.018	.030	.000	1275.30	.66
.000165	200.	200.	200.	0	0	0	.00	1396.57	1397.23

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

1490 NH CARD USED
#SECNO 11900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1285.80

11900.00	10.74	1286.24	.00	.00	1286.40	.16	.08	.00	1287.00
8000.	0.	3793.	4207.	0.	861.	3275.	585.	158.	1285.80
1.05	.00	4.41	1.28	.000	.018	.030	.000	1275.50	.77
.000159	500.	500.	500.	1	0	0	.00	1407.27	1408.04

1490 NH CARD USED
#SECNO 12300.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1285.90

12300.00	10.71	1286.31	.00	.00	1286.46	.15	.06	.00	1287.10
8000.	0.	3702.	4298.	0.	858.	3369.	623.	171.	1285.90
1.09	.00	4.31	1.28	.000	.018	.030	.000	1275.60	.79
.000153	400.	400.	400.	0	0	0	.00	1415.83	1416.62

1490 NH CARD USED
#SECNO 12400.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.20 ELREA= 1283.70

12400.00	10.63	1286.33	.00	.00	1286.48	.15	.02	.00	1287.20
8000.	0.	3689.	4311.	0.	854.	3417.	633.	174.	1283.70
1.10	.00	4.32	1.26	.000	.018	.030	.000	1275.70	.87
.000150	100.	100.	100.	0	0	0	.00	1477.68	1478.55

1490 NH CARD USED
#SECNO 12900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.40 ELREA= 1283.90

12900.00	10.51	1286.41	.00	.00	1286.55	.14	.08	.00	1287.40
8000.	0.	3630.	4370.	0.	842.	3443.	682.	191.	1283.90
1.15	.00	4.31	1.27	.000	.018	.030	.000	1275.90	1.00
.000151	500.	500.	500.	0	0	0	.00	1427.46	1428.46

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

1490 NH CARD USED
#SECNO 13200.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1284.00

13200.00	10.45	1286.45	.00	.00	1286.60	.14	.05	.00	1287.00
8000.	0.	3592.	4408.	0.	838.	3483.	712.	201.	1284.00
1.18	.00	4.29	1.27	.000	.018	.030	.000	1276.00	.55
.000150	300.	300.	300.	0	0	0	.00	1433.59	1434.14

1490 NH CARD USED
#SECNO 13600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1284.20

13600.00	10.32	1286.52	.00	.00	1286.66	.13	.06	.00	1287.00
8000.	0.	3468.	4532.	0.	827.	3578.	752.	214.	1284.20
1.23	.00	4.20	1.27	.000	.018	.030	.000	1276.20	.49
.000146	400.	400.	400.	0	0	0	.00	1441.22	1441.71

1490 NH CARD USED
#SECNO 13700.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1287.20

13700.00	9.11	1285.31	.00	.00	1287.22	1.91	.03	.53	1287.10
8000.	0.	8000.	0.	0.	721.	0.	758.	216.	1287.20
1.23	.00	11.09	.00	.000	.018	.000	.000	1276.20	1.80
.001223	100.	100.	100.	3	0	0	.00	88.31	90.11

1490 NH CARD USED
#SECNO 13800.000

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1287.20

13800.00	9.34	1285.54	.00	.00	1287.35	1.81	.12	.01	1287.10
8000.	0.	8000.	0.	0.	742.	0.	759.	216.	1287.20
1.23	.00	10.78	.00	.000	.018	.000	.000	1276.20	1.57
.001124	100.	100.	100.	2	0	0	.00	88.78	90.35

THIS RUN EXECUTED 9/ 5/90 15:24:44

****
HEC2 RELEASE DATED SEPT 88

****

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

ARIZONA CANAL ONLY

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	591.200	.00	.00	.00	1271.40	2500.00	1280.50	.00	1280.87	2.70	4.91	509.60	1520.16
	605.200	14.00	.00	.00	1271.40	2500.00	1280.50	.00	1280.88	2.70	4.90	509.81	1521.11
*	631.200	26.00	.00	.00	1271.40	2500.00	1280.72	.00	1280.90	1.11	3.38	739.63	2375.89
	1000.000	369.00	.00	.00	1271.50	2500.00	1280.76	.00	1280.94	1.13	3.40	735.14	2352.54
	1200.000	200.00	.00	.00	1271.50	2500.00	1280.79	.00	1280.97	1.12	3.39	737.12	2362.09
	1600.000	400.00	.00	.00	1271.60	2500.00	1280.83	.00	1281.01	1.15	3.42	730.65	2334.33
	1895.000	295.00	1284.30	1283.30	1271.70	2500.00	1280.86	.00	1281.06	1.62	3.59	696.00	1963.59
	1985.000	90.00	1284.30	1283.30	1271.70	2500.00	1280.88	.00	1281.08	1.62	3.59	696.79	1966.80
	2500.000	515.00	.00	.00	1271.90	2500.00	1280.96	.00	1281.15	1.23	3.50	713.34	2255.47
	2900.000	400.00	.00	.00	1272.00	2500.00	1281.00	.00	1281.20	1.27	3.55	704.15	2215.63
	3155.100	255.00	.00	.00	1272.10	2500.00	1281.04	.00	1281.23	1.28	3.56	703.22	2206.19
	3365.000	210.00	.00	.00	1272.20	2500.00	1281.06	.00	1281.26	1.31	3.57	701.24	2188.35
	4000.000	635.00	.00	.00	1272.40	2500.00	1281.14	.00	1281.35	1.37	3.62	690.81	2139.44
	4350.000	350.00	.00	.00	1272.50	2500.00	1281.19	.00	1281.40	1.41	3.67	681.67	2105.19
	4800.000	450.00	.00	.00	1272.70	2500.00	1281.25	.00	1281.46	1.47	3.71	673.96	2060.73
	5300.000	500.00	.00	.00	1272.90	2500.00	1281.32	.00	1281.54	1.56	3.79	659.09	1998.82
	5850.000	550.00	.00	.00	1273.10	2500.00	1281.40	.00	1281.63	1.63	3.83	652.05	1960.62

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	5900.000	50.00	.00	.00	1273.20	2500.00	1281.40	.00	1281.64	1.76	3.96	631.08	1883.90
	6010.000	110.00	.00	.00	1273.20	2500.00	1281.42	.00	1281.66	1.75	3.95	632.22	1889.06
*	6117.000	107.00	.00	.00	1273.20	2500.00	1281.68	.00	1281.69	.13	1.12	3006.91	6869.99
	6337.000	220.00	.00	.00	1273.30	3951.00	1281.65	.00	1281.71	.58	2.33	2223.05	5177.89
	6557.000	220.00	.00	.00	1273.40	5054.00	1281.66	.00	1281.73	.78	2.68	2468.95	5706.10
	6777.000	220.00	.00	.00	1273.50	5893.00	1281.64	.00	1281.77	1.36	3.50	2178.44	5045.04
	6997.000	220.00	.00	.00	1273.60	6558.00	1281.57	.00	1281.86	3.07	5.18	1647.78	3745.33
	7217.000	220.00	.00	.00	1273.70	7100.00	1281.62	.00	1281.95	3.51	5.52	1674.52	3790.15
*	7329.000	112.00	.00	.00	1273.70	7100.00	1280.35	1280.35	1283.44	28.39	14.11	503.12	1332.64
*	7431.000	180.00	.00	.00	1273.70	7100.00	1282.06	.00	1283.90	13.05	10.89	651.78	1965.23
	7452.000	161.00	1284.90	1283.90	1273.70	7100.00	1282.45	.00	1284.11	11.17	10.34	686.35	2124.81
	7458.000	6.00	1284.90	1283.90	1273.70	7100.00	1282.46	.00	1284.12	11.13	10.33	686.99	2127.80
	7499.000	80.00	.00	.00	1273.80	7100.00	1282.60	.00	1284.22	10.77	10.20	695.98	2163.38
	7532.000	33.00	1286.00	1284.00	1273.80	7100.00	1283.64	.00	1284.90	7.40	9.00	788.61	2610.11
	7680.000	148.00	.00	.00	1273.90	8000.00	1283.45	.00	1285.17	10.45	10.53	759.98	2474.78
	7760.000	80.00	.00	.00	1274.00	8000.00	1283.53	.00	1285.26	10.57	10.57	757.18	2461.13
*	7772.000	12.00	1284.70	1284.70	1274.00	8000.00	1285.72	.00	1285.77	1.08	1.84	4342.06	7705.14
	8100.000	328.00	.00	.00	1274.00	8000.00	1285.73	.00	1285.81	.86	3.40	5363.81	8640.49
	8600.000	500.00	.00	.00	1274.50	8000.00	1285.77	.00	1285.85	.92	3.48	5261.26	8337.54
	8700.000	100.00	.00	.00	1274.50	8000.00	1285.78	.00	1285.86	.92	3.47	5266.44	8346.85
	8920.000	220.00	.00	.00	1274.60	8000.00	1285.80	.00	1285.88	.93	3.49	5263.28	8287.04
	9140.000	220.00	.00	.00	1274.60	8000.00	1285.82	.00	1285.90	.92	3.46	5297.13	8347.71
	9360.000	220.00	.00	.00	1274.50	8000.00	1285.79	.00	1285.96	1.52	4.48	4098.69	6483.32
	9460.000	100.00	.00	.00	1274.50	8000.00	1285.80	.00	1285.97	1.51	4.46	4116.08	6512.47
	9600.000	140.00	.00	.00	1274.60	8000.00	1285.89	.00	1286.00	1.02	3.72	4797.78	7902.03
	9770.000	170.00	.00	.00	1274.60	8000.00	1285.91	.00	1286.01	1.01	3.70	4828.35	7959.05

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	9800.000	30.00	.00	.00	1274.70	8000.00	1285.91	.00	1286.02	1.05	3.75	4748.83	7815.02
	9885.000	85.00	.00	.00	1274.70	8000.00	1285.89	.00	1286.04	1.41	4.33	4012.18	6746.23
	9900.000	39.00	.00	.00	1274.80	8000.00	1285.88	.00	1286.05	1.56	4.54	3775.15	6407.77
	10000.000	100.00	.00	.00	1274.80	8000.00	1285.89	.00	1286.07	1.55	4.53	3784.24	6424.11
	10600.000	600.00	.00	.00	1275.00	8000.00	1285.97	.00	1286.18	1.78	4.81	3763.12	6000.25
	11100.000	500.00	.00	.00	1275.20	8000.00	1286.10	.00	1286.26	1.57	4.50	4057.50	6383.54
	11200.000	100.00	.00	.00	1275.20	8000.00	1286.11	.00	1286.28	1.64	4.52	4020.57	6248.19
	11400.000	200.00	.00	.00	1275.30	8000.00	1286.15	.00	1286.31	1.65	4.52	4028.82	6220.84
	11900.000	500.00	.00	.00	1275.50	8000.00	1286.24	.00	1286.40	1.59	4.41	4136.18	6337.23
	12300.000	400.00	.00	.00	1275.60	8000.00	1286.31	.00	1286.46	1.53	4.31	4227.69	6462.61
	12400.000	100.00	.00	.00	1275.70	8000.00	1286.33	.00	1286.48	1.50	4.32	4270.36	6541.90
	12900.000	500.00	.00	.00	1275.90	8000.00	1286.41	.00	1286.55	1.51	4.31	4285.54	6514.83
	13200.000	300.00	.00	.00	1276.00	8000.00	1286.45	.00	1286.60	1.50	4.29	4321.22	6525.83
	13600.000	400.00	.00	.00	1276.20	8000.00	1286.52	.00	1286.66	1.46	4.20	4404.57	6612.91
*	13700.000	100.00	.00	.00	1276.20	8000.00	1285.31	.00	1287.22	12.23	11.09	721.43	2287.74
	13800.000	100.00	.00	.00	1276.20	8000.00	1285.54	.00	1287.35	11.24	10.78	741.92	2386.19

ARIZONA CANAL ONLY

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	591.200	2500.00	1280.50	.00	.00	.00	56.00	.00
	605.200	2500.00	1280.50	.00	.00	.00	56.00	14.00
*	631.200	2500.00	1280.72	.00	.22	.00	88.65	26.00
	1000.000	2500.00	1280.76	.00	.04	.00	88.71	369.00
	1200.000	2500.00	1280.79	.00	.02	.00	88.76	200.00
	1600.000	2500.00	1280.83	.00	.04	.00	88.28	400.00
	1895.000	2500.00	1280.86	.00	.03	.00	81.90	295.00
	1985.000	2500.00	1280.88	.00	.02	.00	81.91	90.00
	2500.000	2500.00	1280.96	.00	.08	.00	87.48	515.00
	2900.000	2500.00	1281.00	.00	.05	.00	87.20	400.00
	3155.100	2500.00	1281.04	.00	.03	.00	87.38	255.00
	3365.000	2500.00	1281.06	.00	.03	.00	88.22	210.00
	4000.000	2500.00	1281.14	.00	.08	.00	87.98	635.00
	4350.000	2500.00	1281.19	.00	.04	.00	86.88	350.00
	4800.000	2500.00	1281.25	.00	.06	.00	87.63	450.00
	5300.000	2500.00	1281.32	.00	.07	.00	86.51	500.00
	5850.000	2500.00	1281.40	.00	.08	.00	87.07	550.00
	5900.000	2500.00	1281.40	.00	-.00	.00	84.80	50.00
	6010.000	2500.00	1281.42	.00	.02	.00	84.83	110.00
*	6117.000	2500.00	1281.68	.00	.26	.00	392.48	107.00
	6337.000	3951.00	1281.65	.00	-.02	.00	301.21	220.00
	6557.000	5054.00	1281.66	.00	.00	.00	332.96	220.00
	6777.000	5893.00	1281.64	.00	-.02	.00	301.14	220.00
	6997.000	6558.00	1281.57	.00	-.07	.00	256.60	220.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	7217.000	7100.00	1281.62	.00	.05	.00	256.62	220.00
*	7329.000	7100.00	1280.35	.00	-1.27	.00	81.36	112.00
*	7431.000	7100.00	1282.06	.00	1.71	.00	86.57	180.00
	7452.000	7100.00	1282.45	.00	.39	.00	87.39	161.00
	7458.000	7100.00	1282.46	.00	.01	.00	87.40	6.00
	7499.000	7100.00	1282.60	.00	.14	.00	88.12	80.00
	7532.000	7100.00	1283.64	.00	1.04	.00	90.26	33.00
	7680.000	8000.00	1283.45	.00	-.19	.00	89.11	148.00
	7760.000	8000.00	1283.53	.00	.08	.00	89.04	80.00
*	7772.000	8000.00	1285.72	.00	2.19	.00	1200.00	12.00
	8100.000	8000.00	1285.73	.00	.01	.00	1520.00	328.00
	8600.000	8000.00	1285.77	.00	.04	.00	1631.93	500.00
	8700.000	8000.00	1285.78	.00	.01	.00	1632.89	100.00
	8920.000	8000.00	1285.80	.00	.02	.00	1638.02	220.00
	9140.000	8000.00	1285.82	.00	.02	.00	1644.23	220.00
	9360.000	8000.00	1285.79	.00	-.03	.00	1437.25	220.00
	9460.000	8000.00	1285.80	.00	.02	.00	1440.16	100.00
	9600.000	8000.00	1285.89	.00	.09	.00	1429.28	140.00
	9770.000	8000.00	1285.91	.00	.02	.00	1433.15	170.00
	9800.000	8000.00	1285.91	.00	.00	.00	1472.93	30.00
	9885.000	8000.00	1285.89	.00	-.03	.00	1216.60	85.00
	9900.000	8000.00	1285.88	.00	-.01	.00	1200.59	39.00
	10000.000	8000.00	1285.89	.00	.02	.00	1201.81	100.00
	10600.000	8000.00	1285.97	.00	.08	.00	1374.00	600.00
	11100.000	8000.00	1286.10	.00	.12	.00	1395.35	500.00
	11200.000	8000.00	1286.11	.00	.01	.00	1398.69	100.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	11400.000	8000.00	1286.15	.00	.03	.00	1396.57	200.00
	11900.000	8000.00	1286.24	.00	.09	.00	1407.27	500.00
	12300.000	8000.00	1286.31	.00	.07	.00	1415.83	400.00
	12400.000	8000.00	1286.33	.00	.02	.00	1477.68	100.00
	12900.000	8000.00	1286.41	.00	.08	.00	1427.46	500.00
	13200.000	8000.00	1286.45	.00	.05	.00	1433.59	300.00
	13600.000	8000.00	1286.52	.00	.07	.00	1441.22	400.00
*	13700.000	8000.00	1285.31	.00	-1.21	.00	88.31	100.00
	13800.000	8000.00	1285.54	.00	.23	.00	88.78	100.00

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 631.200 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

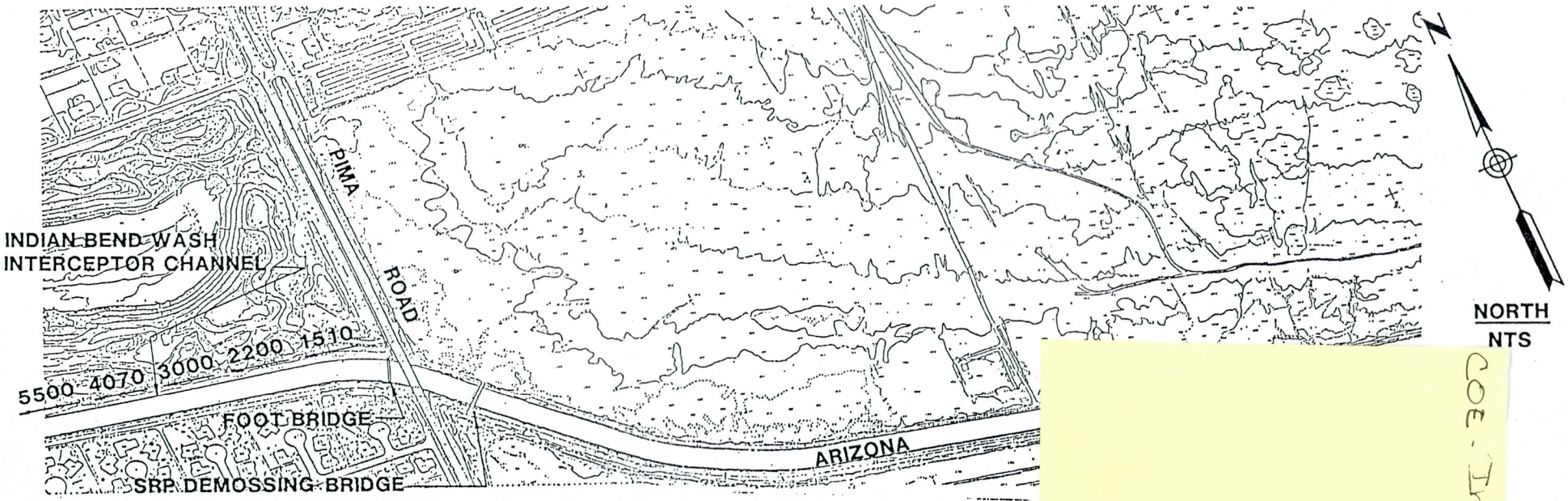
WARNING SECNO= 6117.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 7329.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 7329.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 7329.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 7431.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 7772.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 13700.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE



LEG

5500

COE - Interceptor Channel

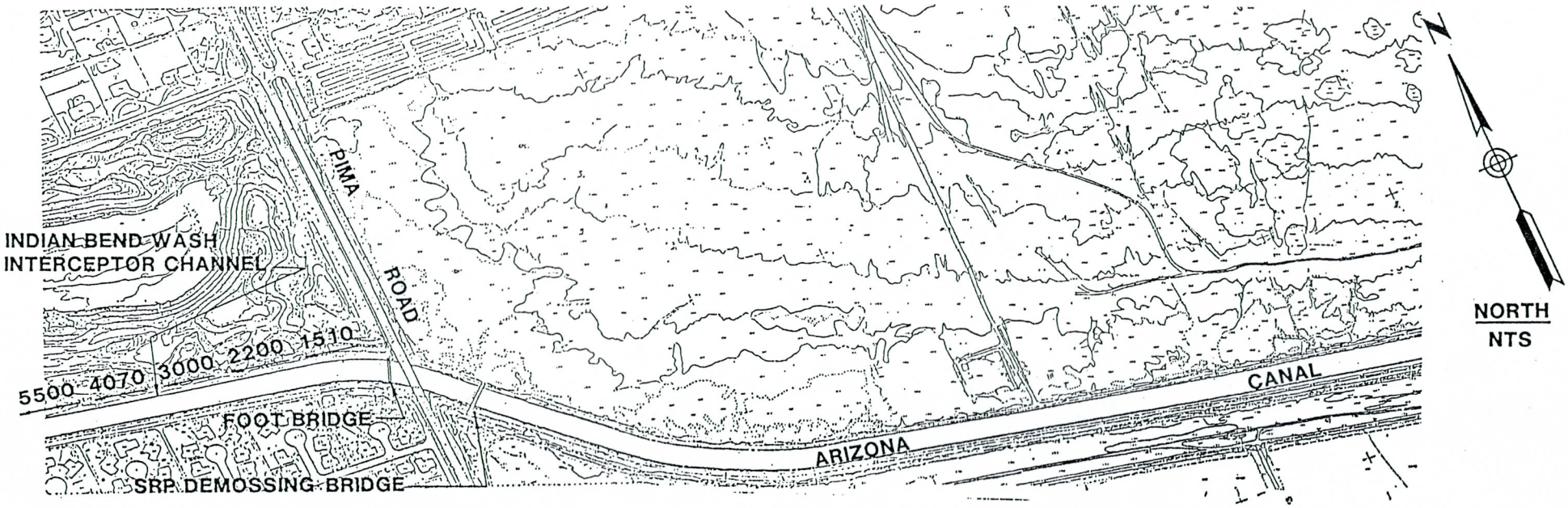
PROFILE I

Q:5500 CFS DOWNSTREAM OF SPILLWAY

Q:1510 CFS UPSTREAM OF SPILLWAY

APP

HEC-2 COMPUTER MODEL
SIMULATED COE DESIGN
AS-BUILT CONDITIONS
INDIAN BEND WASH
INTERCEPTOR CHANNEL ONLY



LEGEND

5500 FLOW, CFS, COE DESIGN

——— FLOW PATH

PROFILE I

Q:5500 CFS DOWNSTREAM OF SPILLWAY

Q:1510 CFS UPSTREAM OF SPILLWAY

APPENDIX D

HEC-2 COMPUTER MODEL
SIMULATED COE DESIGN
AS-BUILT CONDITIONS
INDIAN BEND WASH
INTERCEPTOR CHANNEL ONLY

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**********************************************************
*  WATER SURFACE PROFILES                                *
*  VERSION OF SEPTEMBER 1988                             *
*                                                        *
*                                                        *
*  RUN DATE     8/ 3/90   TIME   10:28: 1                *
**********************************************************
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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                      *
****************************************
```

```
X     X  XXXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                   X
X     X  X        X     X             X
X     X  XXXXXXXX   XXXXX             XXXXXXXX
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END OF BANNER

COE design criteria

THIS RUN EXECUTED 8/ 3/90 10:28: 1

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HEC2 RELEASE DATED SEPT 88

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****
* F I N A L *
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* * * * * * * * * * * * * * * * * *
* A P P E N D I X D *
* * * * * * * * * * * * * * * * * *

THIS FILE IS NAMED: APNDXDR.IN

THIS MODEL IS FOR COE DESIGN CONDITIONS

DATUM IS CORPS OF ENGINEERS (COE)

-------- USE FOR COE IBW INTERCEPTOR CHANNEL ONLY --------

SIDE SPILLWAY FLOWS FROM ARIZONA CANAL INTO IBW INTERCEPTOR CHANNEL

DISTANCE FROM D/S END OF WEIR. FT.	ARIZONA CANAL DISCHARGE CFS	FLOW OVER SIDE SPILLWAY CFS	IBW INT CHANNEL DISCHARGE CFS	FLOW OVER PIMA RD. CFS
		0		
0	2500		5500	---
		1430		
220	3930		4070	---
		1070		
440	5000		3000	---
		800		
660	5800		2200	---
		690		
880	6490		1510	---
		610		900
1100	7100	0	0	900

STARTING WATER SURFACE ELEVATION 1276.50 IS FROM THE
COE DESIGN MEMO NO. 4, PAGE V-5

CROSS-SECTION 6117.0 IS DISTANCE = 0 IN ABOVE CHART

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T1      EXISTING CONDITIONS  Q = 5500 CFS  TO  Q = 1510 CFS
T2      CORPS OF ENGINEERS DATUM
T3      ARIZONA CANAL ONLY

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0        2                                                          1276.50

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      1         0        -1

NC    0.030     0.030     0.030      .1        .3
QT        1      5500
NH        2     0.018    76.001    0.030      496

          COE IBW INTERCEPTOR CHANNEL OUTLET

X1    591.2         9    76.001      496         0         0         0
X3       10
GR   1281.4        20    1271.4   20.001    1271.4        76    1281.4    76.001    1279.9       276
GR   1269.9       336    1268.9      386    1269.9       436    1280.4       496

NH        2     0.018    76.001    0.030      496
X1    605.2                                   14        14        14
X3       10

NH        3     0.030         8    0.018      100     0.030       510
X1    631.2        10       100      510       26        26        26
X3       10
GR   1281.4         0    1281.4         8    1271.4        20    1271.4        90    1281.4       100
GR   1281.4       110    1279.5       290    1269.5       350    1269.5       450    1280.0       510

NH        2     0.018        90    0.030      516
X1   1000.0         9       246      516       369       369       369
X3       10
GR   1281.4         0    1271.5        10    1271.5        80    1280.0        90    1280.0       246
GR   1269.7       306    1268.7       381    1269.7       456    1280.0       516

NH        2     0.018        90    0.030      516
X1   1200.0         0         0         0       200       200       200
X3       10
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NH      2     0.018       90      0.030      510
X1   1600.0       8      260        510      400       400       400
X3     10
GR   1281.7       0   1271.6         10   1271.6        80    1281.2        90    1280.0       260
GR   1269.9     300   1269.9        450   1280.0       510

NC      0       0        0         .3         .5
NH      2   0.018     93.8      0.030      494

        HAYDEN BRIDGE DOWNSTREAM

X1   1895.0      39      274        494      295       295       295
X2                               1283.3   1284.3
X3     10
GR   1283.2     7.5   1271.7         15   1271.7        50    1283.2    50.001    1283.2      51.3
GR   1271.7  51.301   1271.7       86.3   1283.3      93.8    1283.2       274    1280.2   274.001
GR   1274.2     301   1283.3    301.001   1283.3       303    1274.0   303.001    1270.1       313
GR   1270.0     333   1283.3    333.001   1283.3       335    1270.0   335.001    1270.0       368
GR   1283.3 368.001   1283.3        370   1269.5   370.001    1269.1       389    1269.5       407
GR   1283.3 407.001   1283.3        409   1269.5   409.001    1270.0       430    1283.3   430.001
GR   1283.3     432   1270.1    432.001   1270.1       455    1274.0       465    1283.3   465.001
GR   1283.3     467   1274.2    467.001   1283.0   493.999    1283.3       494

NH      2   0.018     93.8      0.030      494

        HAYDEN BRIDGE UPSTREAM

X1   1985.0       0        0          0       90        90        90
X2                               1283.3   1284.3
X3     10

NC                               .1         .3
NH      2   0.018       91      0.030      519
X1   2500.0       9      253        519      515       515       515
X3     10
GR   1283.3       0   1271.9        11.4   1271.9      81.4    1281.6        91    1280.0       253
GR   1270.4     311   1269.4         386   1270.4       461    1280.0       519

NH      2   0.018       90      0.030      498
X1   2900.0       9      249        498      400       400       400
X3     10
GR   1282.9       0   1272.0        10.9   1272.0        81    1281.0        90    1280.0       249
GR   1270.6     307   1269.6         382   1270.6       440    1280.0       498    1270.6
```

NH	2	0.018	91	0.030	476.3					
X1	3155.1	9	243	476.3	255	255	255			
X3	10									
GR	1282.9	0	1272.1	10	1272.1	80	1281.6	91	1280.5	243
GR	1270.7	303	1269.7	378	1270.7	453	1280.0	476.3		
NH	2	0.018	92	0.030	511					
X1	3365.0	9	243	511	210	210	210			
X3	10									
GR	1282.9	0	1272.2	11	1272.2	81	1281.6	92	1280.5	243
GR	1270.8	303	1269.8	378	1270.8	453	1280.0	511		
NH	2	0.018	89	0.030	498					
X1	4000.0	9	237	498	635	635	635			
X3	10									
GR	1283.1	0	1272.4	11	1272.4	81	1280.7	89	1280.6	237
GR	1271.1	294	1270.1	369	1271.1	444	1280.0	498		
NH	2	0.018	93	0.030	530					
X1	4350.0	9	263	530	350	350	350			
X3	10									
GR	1282.8	0	1272.5	10	1272.5	80	1283.3	93	1280.7	263
GR	1271.3	319	1270.3	394	1271.3	469	1281.5	530		
NH	2	0.018	95	0.030	480					
X1	4800.0	9	95	480	450	450	450			
X3	10									
GR	1282.4	0	1272.7	10	1272.7	80	1282.2	95	1280.9	230
GR	1271.5	277	1270.5	352	1271.5	427	1280.9	480		
NH	2	0.018	91	0.030	494					
X1	5300.0	9	233	494	500	500	500			
X3	10									
GR	1283.1	0	1272.9	11	1272.9	81	1283.1	91	1281.0	233
GR	1271.8	287	1270.8	362	1271.8	437	1281.5	494		
NH	2	0.018	91	0.030	480					
X1	5850.0	9	223	480	550	550	550			
X3	10									
GR	1283.8	0	1273.1	11	1273.1	81	1283.9	91	1281.4	223
GR	1272.0	273	1271.0	348	1272.0	423	1281.5	480		
NH	2	0.018	92	0.030	486.8					
X1	5900.0	9	226.6	486.8	50	50	50			
X3	10									
GR	1284.2	0	1273.2	11	1273.2	81	1284.0	92	1281.4	226.6
GR	1272.0	283	1271.0	358	1272.0	433	1281.5	486.8		

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X1   6010.0        0        0        0      110      110      110
X3        10

NH        2    0.018       88    0.030      395

          BEGIN COE SPILLWAY DOWNSTREAM

X1   6117.0        9      126      395      107      107      107
X3        10
GR   1284.2        0   1273.2       11   1273.2       81   1280.5       88   1279.5      126
GR   1272.6      146   1271.6      266   1272.6      341   1281.5      395

QT        1     5500
NH        2    0.018     88.3    0.030      304

          BEGIN COE SPILLWAY CREST DOWNSTREAM

X1   6337.0        9     88.3      304      220      220      220
X3        10
GR   1284.5        0   1273.3       11   1273.3       81   1280.8     88.3   1279.6      111
GR   1272.2      134   1271.2      189   1272.2      244   1280.5      304

QT        1     4070
NH        2    0.018     90.0    0.030      336
X1   6557.0        9     90.0      336      220      220      220
X3        10
GR   1284.5        0   1273.4       12   1273.4       82   1280.7       90   1279.9    115.4
GR   1272.4      134   1271.4      215   1272.4      280   1281.7      336

QT        1     3000
NH        2    0.018     88.3    0.030      304
X1   6777.0        9     88.3      304      220      220      220
X3        10
GR   1284.5        0   1273.5       11   1273.5       81   1280.8     88.3   1280.6    113.5
GR   1272.2      134   1271.2      189   1272.2      244   1280.5      304

QT        1     2200
NH        2    0.018     88.8    0.030      260
X1   6997.0        9     88.8      260      220      220      220
X3        10
GR   1285.0        0   1273.6     11.3   1273.6     81.3   1281.0     88.8   1280.8    113.8
GR   1272.7    141.8   1271.7    176.5   1272.7    206.5   1280.5      260

QT        1     1510
NH        2    0.018     89.6    0.030      260

          END COE SPILLWAY CREST UPSTREAM
          END OF KNOWN COE FLOWS
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X1	7217.0	9	89.6	260	220	220	220			
X3	10									
GR	1285.0	0	1273.7	11.3	1273.7	81.3	1281.0	89.6	1280.0	113.8
GR	1272.7	141.8	1271.7	176.5	1272.7	206.5	1280.5	260		

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

#PROF 1

CCHV= .100 CEHV= .300
1490 NH CARD USED
#SECNO 591.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1281.40 ELREA= 1280.40

591.20	7.60	1276.50	.00	1276.50	1277.00	.50	.00	.00	1281.40
5500.	0.	5500.	0.	0.	965.	0.	0.	0.	1280.40
.00	.00	5.70	.00	.000	.030	.000	.000	1268.90	296.40
.001394	0.	0.	0.	0	0	0	.00	177.31	473.71

1490 NH CARD USED
#SECNO 605.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1281.40 ELREA= 1280.40

605.20	7.62	1276.52	.00	.00	1277.02	.50	.02	.00	1281.40
5500.	0.	5500.	0.	0.	969.	0.	0.	0.	1280.40
.00	.00	5.68	.00	.000	.030	.000	.000	1268.90	296.28
.001380	14.	14.	14.	0	0	0	.00	177.54	473.83

1490 NH CARD USED
#SECNO 631.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1281.40 ELREA= 1280.00

631.20	7.10	1276.60	.00	.00	1277.06	.47	.03	.00	1281.40
5500.	0.	5500.	0.	0.	1005.	0.	1.	0.	1280.00
.00	.00	5.47	.00	.000	.030	.000	.000	1269.50	307.42
.001273	26.	26.	26.	2	0	0	.00	183.13	490.55

1490 NH CARD USED
#SECNO 1000.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1280.00 ELREA= 1280.00

1000.00	8.45	1277.15	.00	.00	1277.35	.20	.26	.03	1280.00
5500.	0.	5500.	0.	0.	1515.	0.	12.	2.	1280.00
.03	.00	3.63	.00	.000	.030	.000	.000	1268.70	262.62
.000455	369.	369.	369.	2	0	0	.00	236.76	499.38

1490 NH CARD USED
#SECNO 1200.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1280.00 ELREA= 1280.00

1200.00	8.54	1277.24	.00	.00	1277.44	.20	.09	.00	1280.00
5500.	0.	5500.	0.	0.	1538.	0.	19.	3.	1280.00
.05	.00	3.58	.00	.000	.030	.000	.000	1268.70	262.06
.000436	200.	200.	200.	2	0	0	.00	237.87	499.94

1490 NH CARD USED
#SECNO 1600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1280.00 ELREA= 1280.00

1600.00	7.51	1277.41	.00	.00	1277.65	.24	.19	.01	1280.00
5500.	0.	5500.	0.	0.	1407.	0.	32.	5.	1280.00
.07	.00	3.91	.00	.000	.030	.000	.000	1269.90	270.24
.000544	400.	400.	400.	1	0	0	.00	224.41	494.64

CCHV= .300 CEHV= .500
1490 NH CARD USED
#SECNO 1895.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.30 MAX ELLC= 1283.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1283.30

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1895.00	8.49	1277.59	.00	.00	1277.91	.33	.22	.04	1283.20
5500.	0.	5500.	0.	0.	1199.	0.	41.	7.	1283.30
.09	.00	4.59	.00	.000	.030	.000	.000	1269.10	285.76
.001107	295.	295.	295.	2	0	0	.00	179.63	477.39

1490 NH CARD USED
#SECNO 1985.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.30 MAX ELLC= 1283.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1283.30

1985.00	8.60	1277.70	.00	.00	1278.01	.32	.10	.00	1283.20
5500.	0.	5500.	0.	0.	1219.	0.	43.	7.	1283.30
.10	.00	4.51	.00	.000	.030	.000	.000	1269.10	285.26
.001060	90.	90.	90.	2	0	0	.00	180.47	477.73

CCHV= .100 CEHV= .300
1490 NH CARD USED
#SECNO 2500.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1280.00 ELREA= 1280.00

2500.00	8.76	1278.16	.00	.00	1278.34	.18	.31	.01	1280.00
5500.	0.	5500.	0.	0.	1602.	0.	60.	9.	1280.00
.14	.00	3.43	.00	.000	.030	.000	.000	1269.40	264.13
.000393	515.	515.	515.	2	0	0	.00	243.73	507.87

1490 NH CARD USED
#SECNO 2900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1280.00 ELREA= 1280.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2900.00	8.71	1278.31	.00	.00	1278.53	.22	.18	.01	1280.00
5500.	0.	5500.	0.	0.	1458.	0.	74.	12.	1280.00
.17	.00	3.77	.00	.000	.030	.000	.000	1269.60	259.45
.000493	400.	400.	400.	2	0	0	.00	228.10	487.55

1490 NH CARD USED
#SECNO 3155.100

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1280.50 ELREA= 1280.00

3155.10	8.73	1278.43	.00	.00	1278.65	.21	.12	.00	1280.50
5500.	0.	5500.	0.	0.	1491.	0.	83.	13.	1280.00
.19	.00	3.69	.00	.000	.030	.000	.000	1269.70	255.70
.000429	255.	255.	255.	1	0	0	.00	216.66	472.36

1490 NH CARD USED
#SECNO 3365.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1280.50 ELREA= 1280.00

3365.00	8.75	1278.55	.00	.00	1278.73	.18	.09	.00	1280.50
5500.	0.	5500.	0.	0.	1613.	0.	90.	14.	1280.00
.21	.00	3.41	.00	.000	.030	.000	.000	1269.80	255.04
.000390	210.	210.	210.	2	0	0	.00	246.84	501.88

1490 NH CARD USED
#SECNO 4000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1280.60 ELREA= 1280.00

4000.00	8.70	1278.80	.00	.00	1278.99	.19	.25	.00	1280.60
5500.	0.	5500.	0.	0.	1589.	0.	114.	18.	1280.00
.26	.00	3.46	.00	.000	.030	.000	.000	1270.10	247.76
.000402	635.	635.	635.	1	0	0	.00	243.01	490.76

1490 NH CARD USED
#SECNO 4350.000

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1280.70 ELREA= 1281.50

4350.00	8.64	1278.94	.00	.00	1279.13	.19	.14	.00	1280.70
5500.	0.	5500.	0.	0.	1569.	0.	126.	20.	1281.50
.28	.00	3.50	.00	.000	.030	.000	.000	1270.30	273.49
.000415	350.	350.	350.	0	0	0	.00	241.20	514.69

1490 NH CARD USED
#SECNO 4800.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.20 ELREA= 1280.90

4800.00	8.62	1279.12	.00	.00	1279.32	.20	.19	.00	1282.20
5500.	0.	5500.	0.	0.	1528.	0.	142.	22.	1280.90
.32	.00	3.60	.00	.000	.030	.000	.000	1270.50	238.88
.000429	450.	450.	450.	0	0	0	.00	231.11	469.99

1490 NH CARD USED
#SECNO 5300.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.00 ELREA= 1281.50

5300.00	8.54	1279.34	.00	.00	1279.54	.20	.22	.00	1281.00
5500.	0.	5500.	0.	0.	1538.	0.	160.	25.	1281.50
.36	.00	3.57	.00	.000	.030	.000	.000	1270.80	242.78
.000437	500.	500.	500.	0	0	0	.00	238.49	481.27

1490 NH CARD USED
#SECNO 5850.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.50

5850.00	8.58	1279.58	.00	.00	1279.78	.20	.24	.00	1281.40
5500.	0.	5500.	0.	0.	1537.	0.	179.	28.	1281.50
.40	.00	3.58	.00	.000	.030	.000	.000	1271.00	232.68
.000432	550.	550.	550.	0	0	0	.00	235.81	468.49

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

1490 NH CARD USED
*SECNO 5900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1281.40 ELREA= 1281.50

5900.00	8.61	1279.61	.00	.00	1279.80	.19	.02	.00	1281.40
5500.	0.	5500.	0.	0.	1553.	0.	181.	28.	1281.50
.40	.00	3.54	.00	.000	.030	.000	.000	1271.00	237.38
.000424	50.	50.	50.	0	0	0	.00	238.68	476.06

*SECNO 6010.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1281.40 ELREA= 1281.50

6010.00	8.66	1279.66	.00	.00	1279.85	.19	.05	.00	1281.40
5500.	0.	5500.	0.	0.	1565.	0.	185.	29.	1281.50
.41	.00	3.51	.00	.000	.030	.000	.000	1271.00	237.08
.000415	110.	110.	110.	0	0	0	.00	239.27	476.35

1490 NH CARD USED
*SECNO 6117.000

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1279.50 ELREA= 1281.50

6117.00	8.17	1279.77	.00	.00	1279.88	.11	.03	.01	1279.50
5500.	1737.	3763.	0.	504.	1727.	0.	190.	29.	1281.50
.42	3.45	2.18	.00	.018	.030	.000	.000	1271.60	4.43
.000155	107.	107.	107.	2	0	0	.00	351.79	384.52

1490 NH CARD USED
*SECNO 6337.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1280.80 ELREA= 1280.50

6337.00	8.47	1279.67	.00	.00	1280.02	.35	.07	.07	1280.80
5500.	0.	5500.	0.	0.	1166.	0.	198.	31.	1280.50
.44	.00	4.72	.00	.000	.030	.000	.000	1271.20	109.60
.000808	220.	220.	220.	2	0	0	.00	188.43	298.03

1490 NH CARD USED
#SECNO 6557.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1280.70 ELREA= 1281.70

6557.00	8.62	1280.02	.00	.00	1280.14	.13	.10	.02	1280.70
4070.	0.	4070.	0.	0.	1432.	0.	205.	32.	1281.70
.46	.00	2.84	.00	.000	.030	.000	.000	1271.40	111.68
.000265	220.	220.	220.	2	0	0	.00	214.19	325.87

1490 NH CARD USED
#SECNO 6777.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1280.80 ELREA= 1280.50

6777.00	8.91	1280.11	.00	.00	1280.20	.09	.05	.00	1280.80
3000.	0.	3000.	0.	0.	1227.	0.	212.	33.	1280.50
.48	.00	2.45	.00	.000	.030	.000	.000	1271.20	114.71
.000201	220.	220.	220.	2	0	0	.00	186.44	301.15

1490 NH CARD USED
#SECNO 6997.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.00 ELREA= 1280.50

6997.00	8.44	1280.14	.00	.00	1280.26	.12	.05	.01	1281.00
2200.	0.	2200.	0.	0.	800.	0.	217.	33.	1280.50
.51	.00	2.75	.00	.000	.030	.000	.000	1271.70	116.05
.000310	220.	220.	220.	1	0	0	.00	141.54	257.59

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

1490 NH CARD USED
*SECNO 7217.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.00 ELREA= 1280.50

7217.00	8.56	1280.26	.00	.00	1280.31	.05	.05	.01	1281.00
1510.	0.	1510.	0.	0.	828.	0.	221.	34.	1280.50
.54	.00	1.82	.00	.000	.030	.000	.000	1271.70	107.49
.000142	220.	220.	220.	2	0	0	.00	150.87	258.36

THIS RUN EXECUTED 8/ 3/90 10:28: 5

****
HEC2 RELEASE DATED SEPT 88

****

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

ARIZONA CANAL ONLY

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	591.200	.00	.00	.00	1268.90	5500.00	1276.50	.00	1277.00	13.94	5.70	965.13	1473.05
	605.200	14.00	.00	.00	1268.90	5500.00	1276.52	.00	1277.02	13.80	5.68	968.60	1480.59
	631.200	26.00	.00	.00	1269.50	5500.00	1276.60	.00	1277.06	12.73	5.47	1004.67	1541.30
*	1000.000	369.00	.00	.00	1268.70	5500.00	1277.15	.00	1277.35	4.55	3.63	1515.08	2577.59
	1200.000	200.00	.00	.00	1268.70	5500.00	1277.24	.00	1277.44	4.36	3.58	1537.76	2633.90
	1600.000	400.00	.00	.00	1269.90	5500.00	1277.41	.00	1277.65	5.44	3.91	1406.83	2358.47
	1895.000	295.00	1284.30	1283.30	1269.10	5500.00	1277.59	.00	1277.91	11.07	4.59	1198.56	1652.77
	1985.000	90.00	1284.30	1283.30	1269.10	5500.00	1277.70	.00	1278.01	10.60	4.51	1218.61	1689.47
*	2500.000	515.00	.00	.00	1269.40	5500.00	1278.16	.00	1278.34	3.93	3.43	1602.16	2775.22
	2900.000	400.00	.00	.00	1269.60	5500.00	1278.31	.00	1278.53	4.93	3.77	1457.84	2478.01
	3155.100	255.00	.00	.00	1269.70	5500.00	1278.43	.00	1278.65	4.29	3.69	1491.44	2656.18
	3365.000	210.00	.00	.00	1269.80	5500.00	1278.55	.00	1278.73	3.90	3.41	1613.43	2784.67
	4000.000	635.00	.00	.00	1270.10	5500.00	1278.80	.00	1278.99	4.02	3.46	1589.48	2744.19
	4350.000	350.00	.00	.00	1270.30	5500.00	1278.94	.00	1279.13	4.15	3.50	1569.29	2699.65
	4800.000	450.00	.00	.00	1270.50	5500.00	1279.12	.00	1279.32	4.29	3.60	1527.81	2654.81
	5300.000	500.00	.00	.00	1270.80	5500.00	1279.34	.00	1279.54	4.37	3.57	1538.47	2631.45
	5850.000	550.00	.00	.00	1271.00	5500.00	1279.58	.00	1279.78	4.32	3.58	1537.37	2647.69

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	5900.000	50.00	.00	.00	1271.00	5500.00	1279.61	.00	1279.80	4.24	3.54	1552.55	2670.22
	6010.000	110.00	.00	.00	1271.00	5500.00	1279.66	.00	1279.85	4.15	3.51	1564.75	2700.74
*	6117.000	107.00	.00	.00	1271.60	5500.00	1279.77	.00	1279.88	1.55	2.18	2230.79	4414.67
*	6337.000	220.00	.00	.00	1271.20	5500.00	1279.67	.00	1280.02	8.08	4.72	1165.90	1934.94
	6557.000	220.00	.00	.00	1271.40	4070.00	1280.02	.00	1280.14	2.65	2.84	1431.95	2501.01
	6777.000	220.00	.00	.00	1271.20	3000.00	1280.11	.00	1280.20	2.01	2.45	1226.78	2117.88
*	6997.000	220.00	.00	.00	1271.70	2200.00	1280.14	.00	1280.26	3.10	2.75	800.49	1249.17
	7217.000	220.00	.00	.00	1271.70	1510.00	1280.26	.00	1280.31	1.42	1.82	827.92	1267.44

ARIZONA CANAL ONLY

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	591.200	5500.00	1276.50	.00	.00	.00	177.31	.00
	605.200	5500.00	1276.52	.00	.02	.00	177.54	14.00
	631.200	5500.00	1276.60	.00	.07	.00	183.13	26.00
*	1000.000	5500.00	1277.15	.00	.55	.00	236.76	369.00
	1200.000	5500.00	1277.24	.00	.10	.00	237.87	200.00
	1600.000	5500.00	1277.41	.00	.17	.00	224.41	400.00
	1895.000	5500.00	1277.59	.00	.18	.00	179.63	295.00
	1985.000	5500.00	1277.70	.00	.11	.00	180.47	90.00
*	2500.000	5500.00	1278.16	.00	.46	.00	243.73	515.00
	2900.000	5500.00	1278.31	.00	.15	.00	228.10	400.00
	3155.100	5500.00	1278.43	.00	.13	.00	216.66	255.00
	3365.000	5500.00	1278.55	.00	.12	.00	246.84	210.00
	4000.000	5500.00	1278.80	.00	.25	.00	243.01	635.00
	4350.000	5500.00	1278.94	.00	.14	.00	241.20	350.00
	4800.000	5500.00	1279.12	.00	.18	.00	231.11	450.00
	5300.000	5500.00	1279.34	.00	.22	.00	238.49	500.00
	5850.000	5500.00	1279.58	.00	.24	.00	235.81	550.00
	5900.000	5500.00	1279.61	.00	.03	.00	238.68	50.00
	6010.000	5500.00	1279.66	.00	.05	.00	239.27	110.00
*	6117.000	5500.00	1279.77	.00	.12	.00	351.79	107.00
*	6337.000	5500.00	1279.67	.00	-.10	.00	188.43	220.00
	6557.000	4070.00	1280.02	.00	.34	.00	214.19	220.00
	6777.000	3000.00	1280.11	.00	.09	.00	186.44	220.00
*	6997.000	2200.00	1280.14	.00	.04	.00	141.54	220.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
7217.000	1510.00	1280.26	.00	.12	.00	150.87	220.00

SUMMARY OF ERRORS AND SPECIAL NOTES

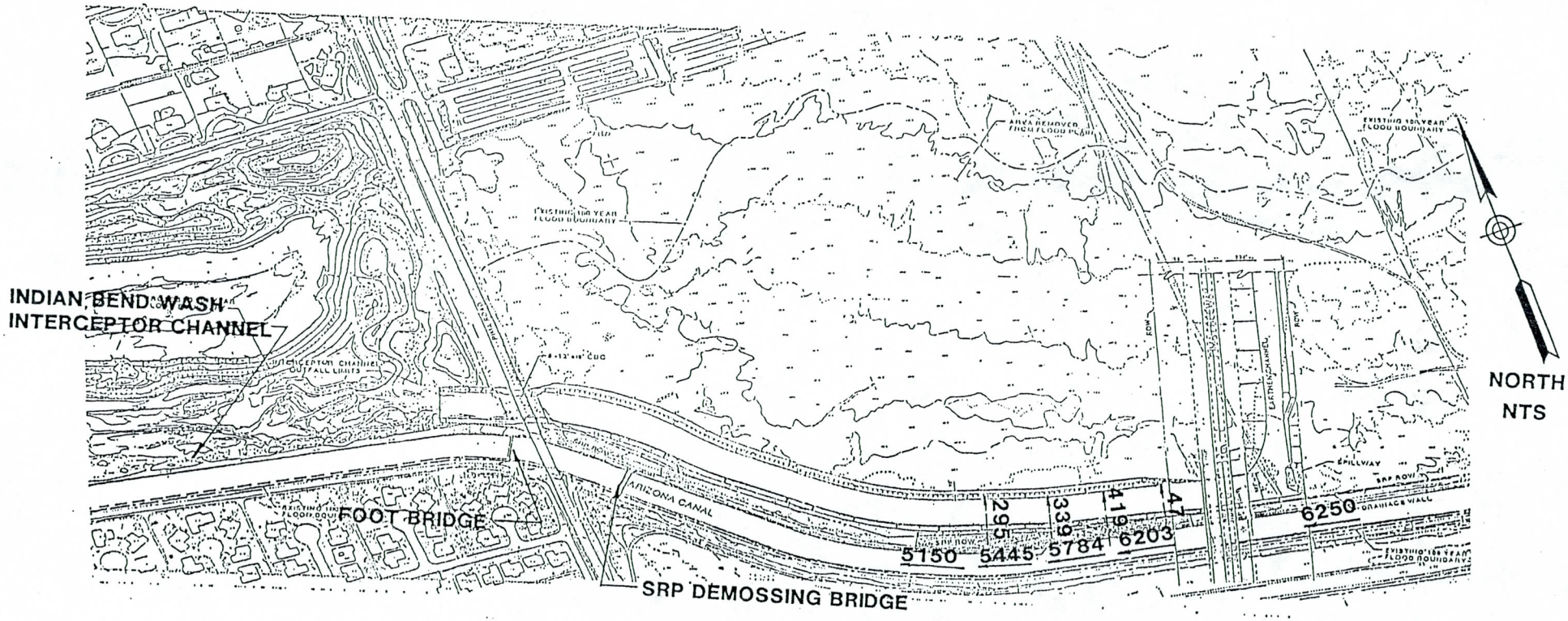
WARNING SECNO= 1000.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 2500.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 6117.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 6337.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 6997.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE



PROFILE I (SPLIT FLOW SIDE WEIR OPTION)

Q:6250 CFS UPSTREAM OF PIMA FREEWAY
Q:5150 CFS UPSTREAM OF PIMA ROAD

LEGEND

6250 FLOW,CFS,ADOT CONCEPT
——— FLOW PATH
←– – – FLOW SPLIT,ARIZONA CANAL SPILLWAY

APPENDIX E

HEC-2 COMPUTER MODEL
SIMULATED ADOT CONCEPT
ARIZONA CANAL SPILLWAY

```
*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*                                                     *
*                                                     *
*  RUN DATE     8/ 2/90   TIME   15:13:43             *
*******************************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  THE HYDROLOGIC ENGINEERING CENTER   *
*  609 SECOND STREET. SUITE D          *
*  DAVIS. CALIFORNIA 95616             *
*  (916) 756-1104                      *
****************************************
```

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

END OF BANNER

THIS RUN EXECUTED 8/ 2/90 15:13:43

Proposed AZ Canal Spillway ADOT

```
##########################################
  HEC2 RELEASE DATED SEPT 88

##########################################################


              ######################
              #  F I N A L  #
              ######################


   ################################################
   #        A P P E N D I X    E                  #
   ################################################

        THIS FILE IS NAMED: APNDXER.IN


        THIS MODEL IS FOR PROPOSED ARIZONA CANAL SPILLWAY (ADOT)

        DATUM IS CORPS OF ENGINEERS (COE)

        ------- ARIZONA CANAL ONLY --------



SPLIT FLOW BEING PERFORMED


SF      PROPOSED ARIZONA CANAL SPILLWAY


TW      NORTH BANK U/S END OF PROPOSED SPILLWAY
WS     2  9360.0  9460.0      -1     3.0
WC        1282.5     100  1284.0

TW      NORTH BANK U/S SPILLWAY CREST
WS     2  9140.0  9360.0      -1     3.0
WC        1282.5     220  1282.5

TW      NORTH BANK SPILLWAY
WS     2  8920.0  9140.0      -1     3.0
WC        1282.5     220  1282.5

TW      NORTH BANK D/S SPILLWAY CREST
WS     2  8700.0  8920.0      -1     3.0
WC        1282.5     220  1282.5
```

THIS RUN EXECUTED 8/ 2/90 15:13:43

```
**************************************************
 HEC2 RELEASE DATED SEPT 88

**************************************************


            **********************
            *  F I N A L  *
            **********************


  ************************************************
  *        A P P E N D I X    E                  *
  ************************************************

      THIS FILE IS NAMED: APNDXER.IN


      THIS MODEL IS FOR PROPOSED ARIZONA CANAL SPILLWAY (ADOT)

      DATUM IS CORPS OF ENGINEERS (COE)

      ------- ARIZONA CANAL ONLY --------



SPLIT FLOW BEING PERFORMED

SF      PROPOSED ARIZONA CANAL SPILLWAY

TW      NORTH BANK U/S END OF PROPOSED SPILLWAY
WS    2  9360.0  9460.0     -1     3.0
WC       1282.5     100  1284.0

TW      NORTH BANK U/S SPILLWAY CREST
WS    2  9140.0  9360.0     -1     3.0
WC       1282.5     220  1282.5

TW      NORTH BANK SPILLWAY
WS    2  8920.0  9140.0     -1     3.0
WC       1282.5     220  1282.5

TW      NORTH BANK D/S SPILLWAY CREST
WS    2  8700.0  8920.0     -1     3.0
WC       1282.5     220  1282.5
```

```
TW      NORTH BANK D/S END OF PROPOSED SPILLWAY
WS     2  8600.0  8700.0      -1     3.0
WC        1282.5     100  1284.0
```

XC - Spillway

```
T1      ARIZONA CANAL SPILLWAY
T2      CORPS OF ENGINEERS DATUM
T3      ARIZONA CANAL PROPOSED CONCEPT

J1  ICHECK    INQ       NINV      IDIR      STRT                                EL      FQ

        0       2                                                             .02

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC         NIM     ITRACE

        1       0        -1

NC    0.030     0.030     0.018       .1        .3
QT        1      6250

          BEGIN PROPOSED SPILLWAY

X1   8600.0        13         0      92.5         0         0         0
X3       10
GR   1285.7         0    1274.2      11.5    1274.2      81.5    1285.2      92.5    1285.0       116
GR   1280.8       126    1280.9       320    1281.0       402    1282.0       650    1283.0       896
GR   1284.0      1200    1285.0      1600    1285.5      1680

X1   8700.0        12         0        91       100       100       100
X3       10
GR   1285.8         0    1274.3      11.5    1274.3      81.5    1283.8      91.0    1281.1       117
GR   1280.8       250    1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR   1285.0      1400    1286.0      1700

X1   8920.0        12         0        91       220       220       220
X3       10
GR   1286.0         0    1274.4      11.5    1274.4      81.5    1283.9      91.0    1281.2       117
GR   1280.9       250    1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR   1285.0      1400    1286.0      1700

X1   9140.0        12         0        92       220       220       220
X3       10
GR   1286.0         0    1274.5      12.5    1274.5      82.5    1284.0      92.0    1282.0       117
GR   1280.9       250    1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR   1285.0      1230    1286.0      1600

X1   9360.0        11         0        92       220       220       220
X3       10
GR   1287.0         0    1274.6      12.5    1274.6      82.5    1284.0      92.0    1283.6       116
GR   1281.5       400    1282.0       480    1283.0       760    1284.0      1030    1285.0      1250
GR   1286.0      1490

          END PROPOSED SPILLWAY
```

```
T1      ARIZONA CANAL SPILLWAY
T2      CORPS OF ENGINEERS DATUM
T3      ARIZONA CANAL PROPOSED CONCEPT

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        0         2                                                           1283.02

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

        1         0        -1

NC    0.030     0.030     0.018       .1        .3
QT        1      6250

          BEGIN PROPOSED SPILLWAY

X1   8600.0        13         0      92.5         0         0         0
X3       10
GR   1285.7         0    1274.2      11.5    1274.2      81.5    1285.2      92.5    1285.0       116
GR   1280.8       126    1280.9       320    1281.0       402    1282.0       650    1283.0       896
GR   1284.0      1200    1285.0      1600    1285.5      1680

X1   8700.0        12         0        91       100       100       100
X3       10
GR   1285.8         0    1274.3      11.5    1274.3      81.5    1283.8      91.0    1281.1       117
GR   1280.8       250    1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR   1285.0      1400    1286.0      1700

X1   8920.0        12         0        91       220       220       220
X3       10
GR   1286.0         0    1274.4      11.5    1274.4      81.5    1283.9      91.0    1281.2       117
GR   1280.9       250    1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR   1285.0      1400    1286.0      1700

X1   9140.0        12         0        92       220       220       220
X3       10
GR   1286.0         0    1274.5      12.5    1274.5      82.5    1284.0      92.0    1282.0       117
GR   1280.9       250    1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR   1285.0      1230    1286.0      1600

X1   9360.0        11         0        92       220       220       220
X3       10
GR   1287.0         0    1274.6      12.5    1274.6      82.5    1284.0      92.0    1283.6       116
GR   1281.5       400    1282.0       480    1283.0       760    1284.0      1030    1285.0      1250
GR   1286.0      1490

          END PROPOSED SPILLWAY
```

```
X1   9460.0        0        0        0      100      100      100
X3     10
```

PROPOSED PIMA FREEWAY DOWNSTREAM

```
X1   9600.0       12        0     90.5      140      140      140
X3     10
GR   1287.1        0   1274.6     12.5   1274.6     82.5   1282.5     90.5   1280.3      100
GR   1281.5      220   1281.0      350   1282.0      470   1283.0      690   1284.0     1070
GR   1285.0     1270   1286.0     1450
```

PROPOSED PIMA FREEWAY UPSTREAM

```
X1   9770.0        0        0        0      170      170      170
X3     10

X1   9900.0       11        0       90      130      130      130
X3     10
GR   1286.8        0   1274.8       12   1274.8       82   1282.5       90   1280.3      150
GR   1281.5      210   1282.0      400   1283.0      600   1284.0      750   1285.0     1050
GR   1286.0     1220

X1   10000.        0        0        0      100      100      100
X3     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

#PROF 1

CCHV= .100 CEHV= .300
#SECNO 8600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.70 ELREA= 1285.20

8600.00	8.82	1283.02	.00	1283.02	1283.87	.85	.00	.00	1285.70
5147.	0.	5147.	0.	0.	695.	0.	0.	0.	1285.20
.00	.00	7.40	.00	.000	.018	.000	.000	1274.20	2.68
.000566	0.	0.	0.	0	0	0	.00	87.64	90.32

#SECNO 8700.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.80 ELREA= 1283.80

8700.00	8.77	1283.07	.00	.00	1283.93	.87	.06	.01	1285.80
5163.	0.	5163.	0.	0.	690.	0.	2.	0.	1283.80
.00	.00	7.48	.00	.000	.018	.000	.000	1274.30	2.73
.000581	100.	100.	100.	2	0	0	.00	87.53	90.27

#SECNO 8920.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1286.00 ELREA= 1283.90

8920.00	8.72	1283.12	.00	.00	1284.11	.98	.14	.03	1286.00
5464.	0.	5464.	0.	0.	686.	0.	5.	1.	1283.90
.01	.00	7.96	.00	.000	.018	.000	.000	1274.40	2.85
.000663	220.	220.	220.	2	0	0	.00	87.37	90.22

#SECNO 9140.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1286.00 ELREA= 1284.00

9140.00	8.69	1283.19	.00	.00	1284.30	1.11	.16	.04	1286.00
5813.	0.	5813.	0.	0.	687.	0.	9.	1.	1284.00
.02	.00	8.46	.00	.000	.018	.000	.000	1274.50	3.06
.000753	220.	220.	220.	2	0	0	.00	88.13	91.19

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 9360.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1284.00

9360.00	8.64	1283.24	.00	.00	1284.53	1.29	.18	.05	1287.00
6210.	0.	6210.	0.	0.	680.	0.	12.	2.	1284.00
.03	.00	9.13	.00	.000	.018	.000	.000	1274.60	3.79
.000881	220.	220.	220.	2	0	0	.00	87.44	91.23

#SECNO 9460.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1284.00

9460.00	8.74	1283.34	.00	.00	1284.62	1.28	.09	.00	1287.00
6250.	0.	6250.	0.	0.	689.	0.	14.	2.	1284.00
.03	.00	9.08	.00	.000	.018	.000	.000	1274.60	3.69
.000860	100.	100.	100.	2	0	0	.00	87.64	91.33

#SECNO 9600.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.10 ELREA= 1282.50

9600.00	9.99	1284.59	.00	.00	1284.78	.19	.05	.11	1287.10
6250.	0.	3582.	2668.	0.	797.	2184.	19.	4.	1282.50
.04	.00	4.49	1.22	.000	.018	.030	.000	1274.60	2.51
.000175	140.	140.	140.	4	0	0	.00	1184.97	1187.48

#SECNO 9770.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.10 ELREA= 1282.50

9770.00	10.02	1284.62	.00	.00	1284.81	.18	.03	.00	1287.10
6250.	0.	3555.	2695.	0.	800.	2223.	31.	8.	1282.50
.06	.00	4.44	1.21	.000	.018	.030	.000	1274.60	2.48
.000170	170.	170.	170.	2	0	0	.00	1192.16	1194.63

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 9900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.80 ELREA= 1282.50

9900.00	9.78	1284.58	.00	.00	1284.86	.28	.03	.03	1286.80
6250.	0.	4043.	2207.	0.	780.	1580.	39.	12.	1282.50
.07	.00	5.18	1.40	.000	.018	.030	.000	1274.80	2.22
.000238	130.	130.	130.	2	0	0	.00	922.61	924.83

#SECNO 10000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.80 ELREA= 1282.50

10000.00	9.81	1284.61	.00	.00	1284.89	.27	.02	.00	1286.80
6250.	0.	4022.	2228.	0.	783.	1604.	45.	14.	1282.50
.07	.00	5.14	1.39	.000	.018	.030	.000	1274.80	2.19
.000233	100.	100.	100.	2	0	0	.00	931.10	933.29

TW NORTH BANK U/S END OF PROPOSED SPILLWAY

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
40.30	40.25	.12	40.30	40.25	.12	7	1283.238	1283.342	9360.000	9460.000

TW NORTH BANK U/S SPILLWAY CREST

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
397.04	396.97	.02	437.34	437.22	.03	7	1283.187	1283.238	9140.000	9360.000

TW NORTH BANK SPILLWAY

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
348.87	348.93	.02	786.21	786.15	.01	7	1283.121	1283.187	8920.000	9140.000

TW NORTH BANK D/S SPILLWAY CREST

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
301.08	301.39	.10	1087.29	1087.54	.02	7	1283.065	1283.121	8700.000	8920.000

TW NORTH BANK D/S END OF PROPOSED SPILLWAY

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
16.08	16.08	.01	1103.38	1103.62	.02	7	1283.020	1283.065	8600.000	8700.000

THIS RUN EXECUTED 8/ 2/90 15:13:47

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HEC2 RELEASE DATED SEPT 88

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

ARIZONA CANAL PROPOSED C

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	8600.000	.00	.00	.00	1274.20	5146.62	1283.02	.00	1283.87	5.66	7.40	695.20	2164.23
	8700.000	100.00	.00	.00	1274.30	5162.71	1283.07	.00	1283.93	5.81	7.48	690.38	2141.61
	8920.000	220.00	.00	.00	1274.40	5463.79	1283.12	.00	1284.11	6.63	7.96	686.18	2122.63
	9140.000	220.00	.00	.00	1274.50	5812.66	1283.19	.00	1284.30	7.53	8.46	686.81	2118.40
	9360.000	220.00	.00	.00	1274.60	6209.70	1283.24	.00	1284.53	8.81	9.13	680.01	2091.86
	9460.000	100.00	.00	.00	1274.60	6250.00	1283.34	.00	1284.62	8.60	9.08	688.57	2131.76
*	9600.000	140.00	.00	.00	1274.60	6250.00	1284.59	.00	1284.78	1.75	4.49	2981.35	4731.14
	9770.000	170.00	.00	.00	1274.60	6250.00	1284.62	.00	1284.81	1.70	4.44	3023.87	4797.22
	9900.000	130.00	.00	.00	1274.80	6250.00	1284.58	.00	1284.86	2.38	5.18	2360.17	4054.39
	10000.000	100.00	.00	.00	1274.80	6250.00	1284.61	.00	1284.89	2.33	5.14	2386.30	4095.62

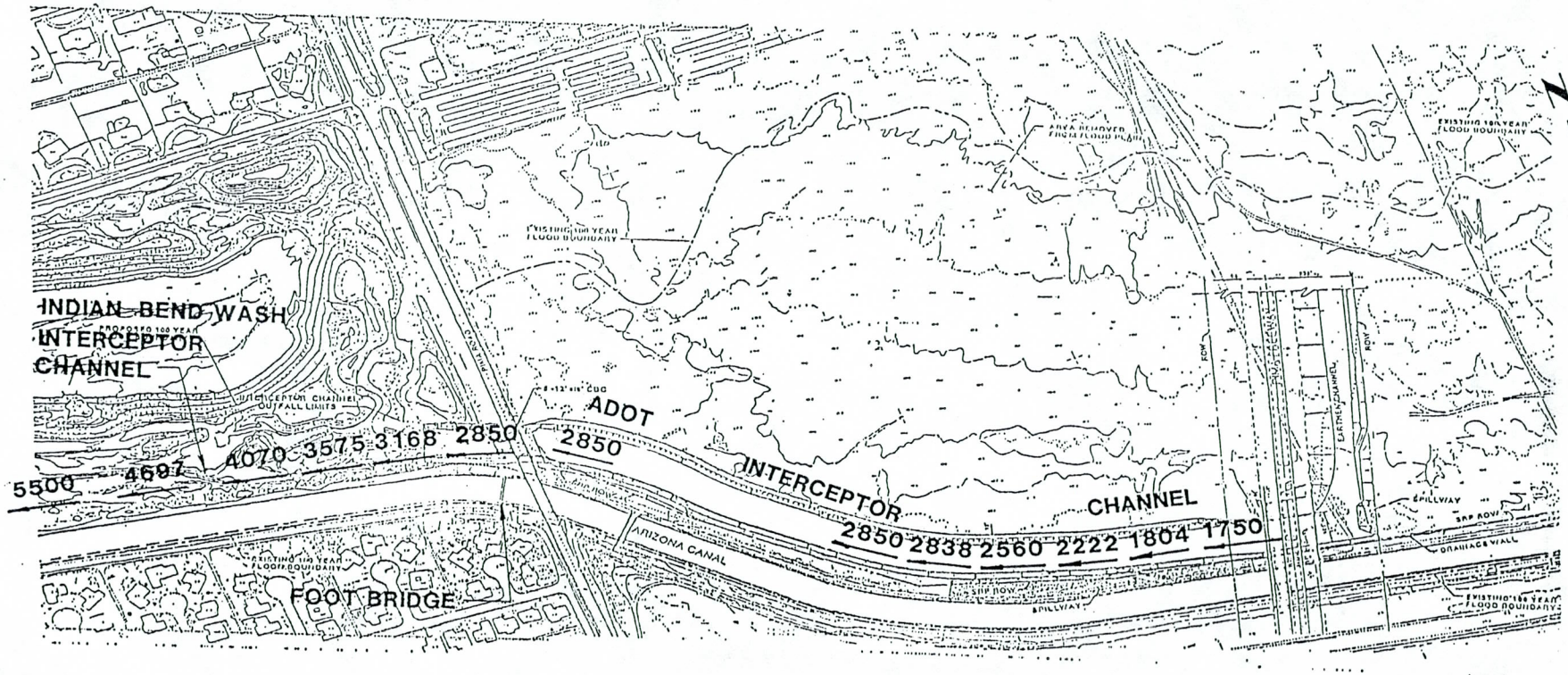
ARIZONA CANAL PROPOSED C

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	8600.000	5146.62	1283.02	.00	.00	.00	87.64	.00
	8700.000	5162.71	1283.07	.00	.05	.00	87.53	100.00
	8920.000	5463.79	1283.12	.00	.06	.00	87.37	220.00
	9140.000	5812.66	1283.19	.00	.07	.00	88.13	220.00
	9360.000	6209.70	1283.24	.00	.05	.00	87.44	220.00
	9460.000	6250.00	1283.34	.00	.10	.00	87.64	100.00
*	9600.000	6250.00	1284.59	.00	1.25	.00	1184.97	140.00
	9770.000	6250.00	1284.62	.00	.04	.00	1192.16	170.00
	9900.000	6250.00	1284.58	.00	-.04	.00	922.61	130.00
	10000.000	6250.00	1284.61	.00	.03	.00	931.10	100.00

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 9600.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE



PROFILE I

Q:1750 CFS AT PIMA FREEWAY

Q:1804 CFS THRU Q:2838 CFS,FLOWS FROM ARIZONA CANAL SPILLWAY (SEE APPENDIX E)

Q:2850 CFS DISCHARGE FROM 6-12'x8' CBC (PIMA ROAD)

Q:3168 CFS THRU Q:4697 CFS,FLOWS FROM COE SPILLWAY (SEE APPENDIX B)

Q:5500 CFS DOWNSTREAM OF COE SPILLWAY

LEGEND

2850 FLOW,CFS,ADOT CONCEPT

← FLOW PATH

APPENDIX F

HEC-2 COMPUTER MODEL
SIMULATED ADOT CONCEPT
ADOT INTERCEPTOR CHANNEL (LINED)

```
*********************************************************
*  WATER SURFACE PROFILES                               *
*  VERSION OF SEPTEMBER 1988                            *
*                                                       *
*                                                       *
*  RUN DATE     8/ 3/90   TIME   10:45: 5               *
*********************************************************
```

```
*****************************************
*  U.S. ARMY CORPS OF ENGINEERS         *
*  THE HYDROLOGIC ENGINEERING CENTER    *
*  609 SECOND STREET, SUITE D           *
*  DAVIS, CALIFORNIA 95616              *
*  (916) 756-1104                       *
*****************************************
```

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

END OF BANNER

THIS RUN EXECUTED 8/ 3/90 10:45: 5

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HEC2 RELEASE DATED SEPT 88

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* F I N A L *
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* * * * * * * * * * * * * * * * * * * *
* A P P E N D I X F *
* * * * * * * * * * * * * * * * * * * *

THIS FILE IS NAMED: APNDXFR.IN

THIS MODEL IS FOR (ADOT) DESIGN CONDITIONS

DATUM IS CORPS OF ENGINEERS (COE)

-------- DO NOT USE FOR ARIZONA CANAL ---------

THIS MODEL FOR IBW INTERCEPTOR CHANNEL (COE)
AND THE PROPOSED ARIZONA CANAL INTERCEPTOR CHANNEL (ADOT)

POINT OF BEGINNING IS AT SECTION 5900.0 AS EXISTING CONDITIONS
ARE NOT KNOWN WEST OF SECTION 5900.0

THE STARTING WATER SURFACE ELEVATION IS 1279.61 FROM APPENDIX D
SECTION 5900.0

PROFILE 1 Q = 5500 CFS AT INDIAN BEND WASH OUTLET
FLOWS FROM HEC-2 MODEL APPENDIX B

STA	DISTANCE FEET	ACCUM DISTANCE FEET	AZ CANAL FLOW CFS	PROPOSED SPILLWAY DISCHARGE CFS	COE IBW INT.CHAN FLOW CFS
6117.0	0	0	2500	0	5500
6337.0	220	220	3303	803	4697
6557.0	220	440	3930	627	4070
6777.0	220	660	4475	495	3575
6997.0	220	880	4832	407	3138

```
      7217.0     220    1100        5150        318        2850



T1      DESIGN CONDITIONS
T2      CORPS OF ENGINEERS DATUM
T3      ARIZONA CANAL INTERCEPTOR CHANNEL

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0        2                                                          1279.61

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       1        0        -1                                                 7

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     120       150

NC    0.030     0.030     0.030       .1         .3
QT       1      5500
NH       2     0.018      91.8     0.030      486.8
X1  5900.0        10      91.8     486.8          0         0         0
X3      10
GR  1284.2         0    1273.2        11    1273.2        81    1284.0      91.8    1281.4     226.6
GR  1272.0       283    1271.0       358    1272.0       433    1266.5       450    1281.5     486.8

NH       2     0.018      91.8     0.030        703
X1  6010.0        13      91.8       703        110       110       110
X3      10
GR  1284.2         0    1273.2        11    1273.2        81    1284.0      91.8    1280.0       154
GR  1278.0       220    1275.0       285    1272.0       335    1270.0       398    1267.0       460
GR  1273.0       502    1275.0       523    1285.0       703

QT       1      5500
NH       2     0.018      88.3     0.030        703


          BEGIN COE SPILLWAY DOWNSTREAM


X1  6117.0        13      88.3       703        107       107       107
X3      10
GR  1284.2         0    1273.2        11    1273.2        81    1280.5      88.3    1279.5       126
GR  1278.0       190    1275.0       317    1273.0       353    1270.0       380    1269.4       400
GR  1273.0       460    1275.0       523    1285.0       703
```

```
QT       1      4697
NH       2     0.018      88.3     0.030       457
X1  6337.0       27      88.3       457       220       220       220
X3      10
GR  1284.5        0    1273.3        11    1273.3        81    1280.8      88.3    1279.6       111
GR  1272.2      134    1271.2       189    1272.2       244    1280.5       304    1269.5       354
GR  1270.0      356    1270.0       373    1271.0       386    1272.0       390    1273.0       395
GR  1274.0      400    1275.0       402    1276.0       406    1277.0       411    1278.0       415
GR  1279.0      419    1280.0       424    1281.0       432    1282.0       440    1283.0       450
GR  1284.0      453    1285.0       457

QT       1      4070
NH       2     0.018      90.0     0.030       484
X1  6557.0       28        90       484       220       220       220
X3      10
GR  1284.5        0    1273.4        12    1273.4        82    1280.7        90    1279.9      115.4
GR  1272.4      134    1271.4       215    1269.6       252    1270.0       306    1271.0       311
GR  1272.0      316    1271.0       321    1274.0       325    1274.0       351    1273.0       354
GR  1272.0      357    1271.0       361    1270.0       366    1271.0       400    1273.0       413
GR  1274.0      418    1275.0       421    1278.0       434    1280.0       443    1281.0       447
GR  1283.0      456    1285.0       464    1290.0       484

QT       1      3575
NH       2     0.018      88.3     0.030       484
X1  6777.0       19      88.3       484       220       220       220
X3      10
GR  1284.5        0    1273.5        11    1273.5        81    1280.8      88.3    1280.6      113.5
GR  1272.2      134    1272.0       220    1270.0       238    1270.0       331    1269.7       378
GR  1269.7      378    1270.0       389    1272.0       417    1274.0       425    1275.0       429
GR  1278.0      440    1282.0       451    1285.0       461    1290.0       484

QT       1      3168
NH       2     0.018      88.8     0.030       829
X1  6997.0       19      88.8       829       220       220       220
X3      10
GR  1285.0        0    1273.6      11.3    1273.6      81.3    1281.0      88.8    1280.8      113.8
GR  1272.7    141.8    1272.0       202    1271.0       210    1270.0       274    1269.8       302
GR  1269.8      309    1270.0       381    1270.0       626    1271.0       640    1273.0       654
GR  1276.0      681    1279.0       709    1281.0       781    1285.0       829

NC  0.030     0.030     0.030        .3        .5
QT       1      2850


        END COE SPILLWAY UPSTREAM


X1  7217.0       30      89.6       938       220       220       220
CI      200  1270.2     0.030       2.0       4.0                 -80
X3      10
GR  1285.0        0    1273.7      11.3    1273.7      81.3    1281.0      89.6    1280.0      113.8
GR  1281.0      143    1283.0       148    1284.0       151    1282.0       180    1280.0       185
GR  1278.0      190    1278.0       200    1280.0       205    1282.0       215    1284.0       225
```

```
GR  1283.0      249  1282.0      335  1286.0      350  1288.0      355  1290.0      364
GR  1287.0      407  1284.0      414  1280.0      454  1277.0      518  1278.0      540
GR  1280.0      590  1276.0      640  1272.0      808  1276.0      910  1280.0      938

X1  7329.0       12    88.6     1226      112      112      112
CI     200
X3      10
GR  1285.0        0  1273.7     11.3  1273.7     81.3  1284.0     88.6  1284.2     113.8
GR  1284.0      134  1284.0      147  1283.0      166  1272.4      178  1272.4      231
GR  1281.0      361  1282.0     1226

X1  7431.0       12    117.5     1220      102      102      102
CI     200   1270.9                      2.0
X3      10
GR  1285.0        0  1273.7     11.8  1273.7     81.3  1284.7     92.3  1284.5     117.5
GR  1285.0    127.5  1284.3      146  1283.0      170  1272.5      180  1272.5      230
GR  1281.0      365  1282.0     1220

NC                                .3       .5
```

PIMA ROAD DOWNSTREAM

```
X1  7499.0       38      117      200       18       18       18
CI     160   1271.0                                      .01
X3      10
GR  1285.0        0  1273.8     11.2  1273.8     30.5  1284.0   30.501  1284.0      31.8
GR  1273.8   31.801  1273.8     61.5  1284.0   61.501  1284.0     62.8  1273.8    62.801
GR  1273.8     81.3  1285.0       92  1284.8      117  1271.0  117.001  1271.0       129
GR  1279.0  129.001  1279.0      130  1271.0  130.001  1271.0      142  1279.0    142.001
GR  1279.0      143  1271.0  143.001  1271.0      155  1279.0  155.001  1279.0       156
GR  1271.0  156.001  1271.0      168  1279.0  168.001  1279.0      169  1271.0    169.001
GR  1271.0      181  1279.0  181.001  1279.0      182  1271.0  182.001  1271.0       194
GR  1279.0  194.001  1279.0      195  1284.0      200

NC                    0.013
SB     1.25     1.88     2.5                   77        5      576           1271.2   1271.0
```

PIMA ROAD UPSTREAM

```
X1  7532.0                                      80       80       80
X2                        1  1279.0     1286.0
X3      10
BT       4      110  1286.0     1286.0      111     1286.0   1279.0      198  1286.0   1279.0
BT     199   1286.0  1286.0
```

```
NC       0         0         0        .1        .3
X1    7692.0        11     116.4      1285       140       140       140
CI       220    1271.2     0.018         2         2                 100
X3        10
GR    1285.0         0    1273.9      11.2    1273.9      81.2    1285.0      92.2    1284.8     116.4
GR    1285.0     126.0    1280.5     137.0    1282.0     332.0    1283.0       937    1284.0      1000
GR    1285.0      1285

X1    7772.0        11       122      1285        80        80        80
CI       250     .0010
X3        10
GR    1285.0         0    1274.0        11    1274.0        81    1285.0        92    1283.5       122
GR    1284.0       126    1280.5       137    1282.0       332    1283.0       937    1284.0      1000
GR    1285.0      1285

X1    8100.0        12       122      1520       350       350       350
CI
X3        10
GR    1285.5         0    1274.1      11.5    1274.1      81.5    1285.0      92.5    1285.0       122
GR    1280.7       126    1280.8       320    1281.0       402    1282.0       647    1283.0       950
GR    1284.0      1250    1285.0      1520

      BEGIN ARIZONA CANAL SPILLWAY  # 1 (SRP) DOWNSTREAM NORTH BANK
      BEGIN PROPOSED SPILLWAY (ADOT)

X1    8600.0        13       116      1680       500       500       500
CI
X3        10
GR    1285.2         0    1274.2      11.5    1274.2      81.5    1285.2      92.5    1285.0       116
GR    1280.8       126    1280.9       320    1281.0       402    1282.0       650    1283.0       896
GR    1284.0      1200    1285.0      1600    1285.5      1680

X1    8700.0        13       116      1570       100       100       100
CI
X3        10
GR    1285.8         0    1274.3      11.5    1274.3      81.5    1283.8      90.5    1283.6       116
GR    1281.4       120    1281.0     352.0    1281.5       470    1282.0       652    1283.0       872
GR    1284.0      1200    1285.0      1570    1285.5      1680

QT        1      2838
X1    8920.0        12        92      1700       220       220       220
CI
X3        10
GR    1286.0         0    1274.4      12.5    1274.4      82.5    1284.1      92.0    1281.2       117
GR    1280.9       250    1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR    1285.0      1400    1286.0      1700
```

```
GT       1      2560
X1  9140.0        12        92      1700       220       220       220
CI
X3      10
GR  1286.0         0    1274.5      12.5    1274.5      82.5    1284.1      92.0    1282.0       117
GR  1280.9       250    1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR  1285.0      1200    1286.0      1700

GT       1      2222
X1  9360.0        11        92      1490       220       220       220
CI
X3      10
GR  1287.0         0    1274.6      12.5    1274.6      82.5    1284.0      92.0    1283.6       116
GR  1281.5       400    1282.0       480    1283.0       760    1284.0      1030    1285.0      1250
GR  1286.0      1490

GT       1      1804
```

END PROPOSED SPILLWAY (ADOT)

BEGIN DRAINAGE WALL DOWNSTREAM

```
X1  9460.0         0         0         0       100       100       100
CI
X3      10                                                      1287.0    1285.0

GT       1      1750
```

PROPOSED PIMA FREEWAY DOWNSTREAM

```
X1  9600.0        12      90.5       220       140       140       140
CI                                          0.001
X3      10                   0    1286.0       290    1290.0    1287.1    1285.0
GR  1287.1         0    1274.6      12.5    1274.6      82.5    1282.5      90.5    1280.3       100
GR  1281.5       220    1282.0       340    1282.0       470    1283.0       690    1284.0      1070
GR  1285.0      1270    1286.0      1450
```

PROPOSED PIMA FREEWAY UPSTREAM

```
X1  9770.0         0         0         0       170       170       170
CI
X3      10                   0    1285.0       310    1290.0    1287.1    1285.0
```

```
X1   9800.0      14       90      1800       30       30       30
CI
X3      10                                                   1287.0    1285.0
GR   1287.0       0   1274.7      12.5   1274.7     82.0   1282.5      90   1280.3      100
GR   1273.5     180   1273.5       280   1274.3      330   1275.1     450   1277.1     1000
GR   1279.0    1500   1280.0      1670   1281.0     1720   1286.0    1800

X1   9885.0      12       90      1220       85       85       85
CI    200    1280.0    0.018     0.001    0.001                 115
X3      10                                                   1287.0    1285.0
GR   1287.0       0   1274.7      12.5   1274.7     82.0   1282.5      90   1280.3      125
GR   1281.5     200   1281.0       350   1282.0      400   1283.0     600   1284.0      750
GR   1285.0    1200   1286.0      1220

QT       1    8000
X1   9900.0      11       90      1220       39       39       39
CI    250      .01      .01       .01      .01                  .01
X3      10                                                   1286.8    1285.0
GR   1286.8       0   1274.8        12   1274.8       82   1282.5      90   1280.3      150
GR   1281.5     210   1282.0       400   1283.0      600   1284.0     750   1285.0     1060
GR   1286.0    1220

X1   10000.       0        0         0      100      100      100
X3      10                                                   1286.8    1285.0

NH       2   0.018       90     0.030     1550
X1   10600.      11       90      1550      600      600      600
X3      10                                                   1287.0    1285.0
GR   1287.0       0   1275.0        12   1275.0       82   1283.0      90   1283.2      100
GR   1282.0     260   1283.0       590   1284.0      840   1285.0    1120   1286.0     1380
GR   1286.9    1550

NH       2   0.018       90     0.030     1550
X1   11100.      12       90      1550      500      500      500
X3      10                                                   1287.2    1285.0
GR   1287.2       0   1275.2        12   1275.2       82   1283.2      90   1283.2      100
GR   1281.3     190   1282.0       230   1283.0      590   1284.0     850   1285.0     1190
GR   1286.0    1380   1287.0      1550

NH       2   0.018     90.8     0.030     1550

        END ARIZONA CANAL SPILLWAY # 1 (SRP) UPSTREAM NORTH BANK

X1   11200.      12     90.8      1550      100      100      100
X3      10                                                   1286.7    1285.0
GR   1286.7       0   1275.2      11.5   1275.2     81.5   1285.5    90.8   1283.2      100
GR   1282.0     190   1282.0       230   1283.0      590   1284.0     850   1285.0     1190
GR   1286.0    1380   1287.0      1550
```

```
NH       2     0.018      90.8     0.030      1500
X1   11400.        11      90.8      1500       200       200       200
X3      10
GR   1286.8         0    1275.3      11.5    1275.3      81.5    1285.6      90.8    1283.2       100
GR   1282.0       230    1283.0       590    1284.0       850    1285.0      1190    1286.0      1380
GR   1287.0      1500

NH       2     0.018      90.8     0.030      1500
X1   11900.        11      90.8      1500       500       500       500
X3      10
GR   1287.0         0    1275.5      11.5    1275.5      81.5    1285.8      90.8    1283.2       100
GR   1282.0       230    1283.0       590    1284.0       850    1285.0      1190    1286.0      1380
GR   1287.0      1500

NH       2     0.018      90.8     0.030      1680

          BEGIN ARIZONA CANAL SPILLWAY # 2 (SRP) DOWNSTREAM NORTH BANK

X1   12300.        12      90.8      1680       400       400       400
X3      10
GR   1287.1         0    1275.6      11.5    1275.6      81.5    1285.9      90.8    1283.2       100
GR   1282.0       230    1283.0       590    1284.0       850    1285.0      1190    1286.0      1380
GR   1287.0      1500    1288.0      1680

NH       2     0.018      89.5     0.030      1680
X1   12400.        11      89.5      1680       100       100       100
X3      10
GR   1287.2         0    1275.7      11.5    1275.7      81.5    1283.7      89.5    1283.3       100
GR   1282.0       230    1283.0       590    1284.0       850    1285.0      1190    1286.0      1380
GR   1287.0      1680

NH       2     0.018      89.5     0.030      1500
X1   12900.        12      89.5      1500       500       500       500
X3      10
GR   1287.4         0    1275.9      11.5    1275.9      81.5    1283.9      89.5    1283.4       100
GR   1282.2       230    1283.0       590    1284.0       850    1285.0      1190    1285.5      1270
GR   1286.0      1380    1287.0      1500

NH       2     0.018         89     0.030      1680

          C/L DOBSON ROAD EXTENDED & 96TH STREET EXTENDED
             END COE AS-BUILT PLANS

X1   13200.        12         89      1680       300       300       300
X3      10
GR   1297.0         0    1276.0        11    1276.0        81    1284.0         89    1283.5       100
GR   1282.3       230    1283.0       590    1284.0       850    1285.0      1190    1286.0      1380
GR   1287.0      1500    1287.5      1680
```

```
NH       2     0.018        89      0.030       1680
X1   13600.        12        89       1680        400        400        400
X3      10
GR  1287.0         0    1276.2         11     1276.2         81     1284.2         89     1283.7        100
GR  1282.2       230    1283.0        590     1284.0        850     1285.0       1190     1286.0       1380
GR  1287.0      1500    1288.0       1680

NH       2     0.018        92      0.030       1680

        END ARIZONA CANAL SPILLWAY # 2 (SRP) UPSTREAM NORTH BANK (ESTIMATED)

X1   13700.        12        92       1680        100        100        100
X3      10
GR  1287.1         0    1276.2         11     1276.2         81     1287.2         92     1283.6        100
GR  1282.2       230    1283.0        590     1284.0        850     1285.0       1190     1286.0       1380
GR  1287.0      1500    1288.7       1680

X1   13800.         0         0          0        100        100        100
X3      10
```

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

#PROF 1

CCHV= .100 CEHV= .300
1490 NH CARD USED
#SECNO 5900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.00 ELREA= 1281.50

5900.00	13.11	1279.61	.00	1279.61	1279.76	.15	.00	.00	1284.00
5500.	0.	5500.	0.	0.	1777.	0.	0.	0.	1281.50
.00	.00	3.09	.00	.000	.030	.000	.000	1266.50	237.34
.000284	0.	0.	0.	0	0	0	.00	244.82	482.16

1490 NH CARD USED
#SECNO 6010.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.00 ELREA= 1285.00

6010.00	12.72	1279.72	.00	.00	1279.79	.07	.03	.01	1284.00
5500.	0.	5500.	0.	0.	2542.	0.	5.	1.	1285.00
.01	.00	2.16	.00	.000	.030	.000	.000	1267.00	163.29
.000187	110.	110.	110.	2	0	0	.00	444.65	607.94

1490 NH CARD USED
#SECNO 6117.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1280.50 ELREA= 1285.00

6117.00	10.33	1279.73	.00	.00	1279.83	.10	.03	.01	1280.50
5500.	0.	5500.	0.	0.	2180.	0.	11.	2.	1285.00
.03	.00	2.52	.00	.000	.030	.000	.000	1269.40	117.12
.000356	107.	107.	107.	1	0	0	.00	491.12	608.24

1490 NH CARD USED
#SECNO 6337.000

3265 DIVIDED FLOW

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1280.80 ELREA= 1285.00

6337.00	10.29	1279.79	.00	.00	1279.89	.10	.06	.00	1280.80
4697.	0.	4697.	0.	0.	1896.	0.	22.	4.	1285.00
.05	.00	2.48	.00	.000	.030	.000	.000	1269.50	107.46
.000225	220.	220.	220.	0	0	0	.00	307.08	422.93

1490 NH CARD USED
#SECNO 6557.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1280.70 ELREA= 1290.00

6557.00	10.28	1279.88	.00	.00	1279.92	.04	.03	.01	1280.70
4070.	0.	4070.	0.	0.	2564.	0.	33.	6.	1290.00
.09	.00	1.59	.00	.000	.030	.000	.000	1269.60	115.45
.000067	220.	220.	220.	2	0	0	.00	327.02	442.47

1490 NH CARD USED
#SECNO 6777.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1280.80 ELREA= 1290.00

6777.00	10.21	1279.91	.00	.00	1279.93	.03	.01	.00	1280.80
3575.	0.	3575.	0.	0.	2780.	0.	46.	7.	1290.00
.14	.00	1.29	.00	.000	.030	.000	.000	1269.70	115.18
.000040	220.	220.	220.	0	0	0	.00	330.09	445.26

1490 NH CARD USED
#SECNO 6997.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1281.00 ELREA= 1285.00

6997.00	10.13	1279.93	.00	.00	1279.94	.01	.00	.00	1281.00
3168.	0.	3168.	0.	0.	5195.	0.	66.	10.	1285.00
.24	.00	.61	.00	.000	.030	.000	.000	1269.80	116.82
.000009	220.	220.	220.	1	0	0	.00	625.53	742.35

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

CCHV= .300 CEHV= .500
#SECNO 7217.000
CHIMP CLSTA= 200.00 CELCH= 1270.20 BW= 80.00 STCHL= 89.60 STCHR= 938.00
EXCAVATION DATA
AEX= -596.4SQ-FT VEXR= .0K#CU-YD VEXT= .0K#CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1281.00 ELREA= 1280.00

7217.00	9.68	1279.88	.00	.00	1280.00	.11	.01	.05	1281.00
2850.	0.	2850.	0.	0.	1056.	0.	82.	12.	1280.00
.26	.00	2.70	.00	.000	.030	.000	.000	1270.20	140.63
.000204	220.	220.	220.	2	0	0	.00	138.11	278.74

#SECNO 7329.000
CHIMP CLSTA= 200.00 CELCH= 1270.20 BW= 80.00 STCHL= 88.60 STCHR= 1226.00
EXCAVATION DATA
AEX= -266.5SQ-FT VEXR= -1.8K#CU-YD VEXT= -1.8K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.00 ELREA= 1282.00

7329.00	9.71	1279.91	.00	.00	1280.02	.11	.02	.00	1284.00
2850.	0.	2850.	0.	0.	1059.	0.	85.	12.	1282.00
.27	.00	2.69	.00	.000	.030	.000	.000	1270.20	140.60
.000202	112.	112.	112.	1	0	0	.00	138.21	278.81

#SECNO 7431.000
CHIMP CLSTA= 200.00 CELCH= 1270.90 BW= 80.00 STCHL= 117.50 STCHR= 1220.00
EXCAVATION DATA
AEX= -452.2SQ-FT VEXR= -1.4K#CU-YD VEXT= -3.1K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.50 ELREA= 1282.00

7431.00	9.01	1279.91	.00	.00	1280.07	.16	.02	.02	1284.50
2850.	0.	2850.	0.	0.	883.	0.	87.	12.	1282.00
.28	.00	3.23	.00	.000	.030	.000	.000	1270.90	141.98
.000298	102.	102.	102.	2	0	0	.00	116.03	258.02

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

CCHV= .300 CEHV= .500
#SECND 7499.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.80 ELREA= 1284.00

7499.00	8.85	1279.85	.00	.00	1280.15	.31	.01	.07	1284.80
2850.	0.	2850.	0.	0.	642.	0.	88.	12.	1284.00
.28	.00	4.44	.00	.000	.030	.000	.000	1271.00	117.00
.001428	18.	18.	18.	2	0	0	.00	78.85	195.85

SPECIAL BRIDGE

SB	XK	XKOR	CQFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.88	2.50	.00	77.00	5.00	576.00	.00	1271.20	1271.00

#SECND 7532.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1280.56	1280.20	.05	0.	2850.	576.	562.	1279.00	1286.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.80 ELREA= 1284.00

7532.00	9.29	1280.29	.00	.00	1280.56	.28	.41	.00	1284.80
2850.	0.	2850.	0.	0.	677.	0.	89.	12.	1284.00
.29	.00	4.21	.00	.000	.013	.000	.000	1271.00	117.00
.000227	80.	80.	80.	2	0	0	.00	79.29	196.29

CCHV= .100 CEHV= .300
#SECND 7692.000
CHIMP CLSTA= 220.00 CELCH= 1271.20 BW= 100.00 STCHL= 116.40 STCHR= 1285.00

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

EXCAVATION DATA
AEX= 1192.0SQ-FT VEXR= 1.9K#CU-YD VEXT= -1.2K#CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.80 ELREA= 1285.00

7692.00	9.29	1280.49	.00	.00	1280.59	.10	.02	.02	1284.80
2850.	0.	2850.	0.	0.	1102.	0.	92.	13.	1285.00
.30	.00	2.59	.00	.000	.018	.000	.000	1271.20	151.42
.000064	140.	140.	140.	2	0	0	.00	137.16	288.58

#SECNO 7772.000
CHIMP CLSTA= 250.00 CELCH= 1271.28 BW= 100.00 STCHL= 122.00 STCHR= 1285.00
EXCAVATION DATA
AEX= 1213.1SQ-FT VEXR= 3.6K#CU-YD VEXT= 2.3K#CU-YD

3265 DIVIDED FLOW

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1283.50 ELREA= 1285.00

7772.00	9.21	1280.49	.00	.00	1280.60	.11	.01	.00	1283.50
2850.	0.	2850.	0.	0.	1092.	0.	94.	13.	1285.00
.31	.00	2.61	.00	.000	.018	.000	.000	1271.28	137.00
.000065	80.	80.	80.	0	0	0	.00	137.01	318.44

#SECNO 8100.000
CHIMP CLSTA= 250.00 CELCH= 1271.63 BW= 100.00 STCHL= 122.00 STCHR= 1520.00
EXCAVATION DATA
AEX= 1080.3SQ-FT VEXR= 14.9K#CU-YD VEXT= 17.2K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.00

8100.00	8.98	1280.51	.00	.00	1280.63	.12	.02	.00	1285.00
2850.	0.	2850.	0.	0.	1047.	0.	102.	14.	1285.00
.35	.00	2.72	.00	.000	.018	.000	.000	1271.63	182.23
.000074	350.	350.	350.	0	0	0	.00	135.54	317.77

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 8600.000
CHIMP CLSTA= 250.00 CELCH= 1272.13 BW= 100.00 STCHL= 116.00 STCHR= 1680.00
EXCAVATION DATA
AEX= 1026.0SQ-FT VEXR= 19.5K*CU-YD VEXT= 36.7K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.50

8600.00	8.41	1280.54	.00	.00	1280.67	.13	.04	.00	1285.00
2850.	0.	2850.	0.	0.	983.	0.	114.	16.	1285.50
.39	.00	2.90	.00	.000	.018	.000	.000	1272.13	183.17
.000090	500.	500.	500.	0	0	0	.00	133.66	316.83

*SECNO 8700.000
CHIMP CLSTA= 250.00 CELCH= 1272.23 BW= 100.00 STCHL= 116.00 STCHR= 1570.00
EXCAVATION DATA
AEX= 1054.7SQ-FT VEXR= 3.9K*CU-YD VEXT= 40.6K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1283.60 ELREA= 1285.00

8700.00	8.32	1280.55	.00	.00	1280.68	.13	.01	.00	1283.60
2850.	0.	2850.	0.	0.	970.	0.	116.	16.	1285.00
.40	.00	2.94	.00	.000	.018	.000	.000	1272.23	183.36
.000093	100.	100.	100.	0	0	0	.00	133.28	316.64

*SECNO 8920.000
CHIMP CLSTA= 250.00 CELCH= 1272.45 BW= 100.00 STCHL= 92.00 STCHR= 1700.00
EXCAVATION DATA
AEX= 994.6SQ-FT VEXR= 8.3K*CU-YD VEXT= 48.9K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.10 ELREA= 1286.00

8920.00	8.11	1280.56	.00	.00	1280.70	.14	.02	.00	1284.10
2838.	0.	2838.	0.	0.	944.	0.	121.	17.	1286.00
.42	.00	3.01	.00	.000	.018	.000	.000	1272.45	183.76
.000101	220.	220.	220.	0	0	0	.00	132.47	316.24

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 9140.000
CHIMP CLSTA= 250.00 CELCH= 1272.67 BW= 100.00 STCHL= 92.00 STCHR= 1700.00
EXCAVATION DATA
AEX= 978.8SQ-FT VEXR= 8.0K#CU-YD VEXT= 56.9K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.10 ELREA= 1286.00

9140.00	7.94	1280.61	.00	.00	1280.73	.12	.02	.00	1284.10
2560.	0.	2560.	0.	0.	920.	0.	126.	17.	1286.00
.45	.00	2.78	.00	.000	.018	.000	.000	1272.67	184.12
.000088	220.	220.	220.	2	0	0	.00	131.75	315.88

#SECNO 9360.000
CHIMP CLSTA= 250.00 CELCH= 1272.89 BW= 100.00 STCHL= 92.00 STCHR= 1490.00
EXCAVATION DATA
AEX= 1161.4SQ-FT VEXR= 8.7K#CU-YD VEXT= 65.7K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.00 ELREA= 1286.00

9360.00	7.76	1280.65	.00	.00	1280.75	.10	.02	.00	1284.00
2222.	0.	2222.	0.	0.	897.	0.	130.	18.	1286.00
.47	.00	2.48	.00	.000	.018	.000	.000	1272.89	184.47
.000072	220.	220.	220.	2	0	0	.00	131.05	315.53

#SECNO 9460.000
CHIMP CLSTA= 250.00 CELCH= 1272.99 BW= 100.00 STCHL= 92.00 STCHR= 1490.00
EXCAVATION DATA
AEX= 1147.5SQ-FT VEXR= 4.3K#CU-YD VEXT= 69.9K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1285.00

9460.00	7.70	1280.69	.00	.00	1280.76	.06	.01	.00	1284.00
1804.	0.	1804.	0.	0.	889.	0.	132.	18.	1286.00
.48	.00	2.03	.00	.000	.018	.000	.000	1272.99	184.59
.000049	100.	100.	100.	2	0	0	.00	130.81	315.41

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 9600.000
CHIMP CLSTA= 250.00 CELCH= 1273.13 BW= 100.00 STCHL= 90.50 STCHR= 300.02
EXCAVATION DATA
AEX= 995.8SQ-FT VEXR= 5.6K*CU-YD VEXT= 75.5K*CU-YD

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= .0 290.0 TYPE= 1 TARGET= 289.999
ELENCL= 1286.00 ELENCR= 1290.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.10 ELREA= 1285.00

9600.00	7.57	1280.70	.00	.00	1280.77	.07	.01	.00	1282.50
1750.	0.	1750.	0.	0.	823.	0.	135.	19.	1290.00
.50	.00	2.13	.00	.000	.018	.000	.000	1273.13	98.27
.000079	140.	140.	140.	0	0	0	.00	157.04	300.01

#SECNO 9770.000
CHIMP CLSTA= 250.00 CELCH= 1273.30 BW= 100.00 STCHL= 90.50 STCHR= 300.01
EXCAVATION DATA
AEX= 894.1SQ-FT VEXR= 5.9K*CU-YD VEXT= 81.4K*CU-YD

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= .0 310.0 TYPE= 1 TARGET= 309.999
ELENCL= 1285.00 ELENCR= 1290.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.10 ELREA= 1285.00

9770.00	7.41	1280.71	.00	.00	1280.78	.07	.01	.00	1282.50
1750.	0.	1750.	0.	0.	804.	0.	138.	19.	1281.83
.52	.00	2.18	.00	.000	.018	.000	.000	1273.30	98.24
.000085	170.	170.	170.	0	0	0	.00	157.40	300.01

#SECNO 9800.000
CHIMP CLSTA= 250.00 CELCH= 1273.33 BW= 100.00 STCHL= 90.00 STCHR= 1800.00

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

EXCAVATION DATA
AEX= 20.3SQ-FT VEXR= .5K$CU-YD VEXT= 82.0K$CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1285.00

9800.00	7.46	1280.79	.00	.00	1280.79	.00	.00	.01	1282.50
1750.	0.	1750.	0.	0.	6318.	0.	141.	20.	1286.00
.55	.00	.28	.00	.000	.018	.000	.000	1273.33	97.78
.000002	30.	30.	30.	2	0	0	.00	1611.65	1709.43

$SECNO 9885.000
CHIMP CLSTA= 200.00 CELCH= 1280.00 BW= 115.00 STCHL= 90.00 STCHR= 1220.00
EXCAVATION DATA
AEX= 140.5SQ-FT VEXR= .3K$CU-YD VEXT= 82.2K$CU-YD

3301 HV CHANGED MORE THAN HVINS

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1285.00

9885.00	1.71	1281.71	1281.71	.00	1282.24	.54	.00	.16	1282.50
1750.	0.	1750.	0.	0.	297.	0.	147.	22.	1286.00
.56	.00	5.88	.00	.000	.018	.000	.000	1280.00	102.64
.004786	85.	85.	85.	20	17	0	.00	282.65	385.28

$SECNO 9900.000
3685 20 TRIALS ATTEMPTED WSEL.CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1286.80 ELREA= 1285.00

9900.00	3.58	1283.88	1283.88	.00	1284.75	.87	.17	.10	1282.50
8000.	0.	8000.	0.	0.	1069.	0.	148.	22.	1286.00
.56	.00	7.48	.00	.000	.018	.000	.000	1280.30	90.00
.004165	39.	39.	39.	20	20	0	.00	642.71	732.71

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 10000.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.80 ELREA= 1285.00

10000.00	4.37	1284.67	.00	.00	1285.03	.36	.23	.05	1282.50
8000.	0.	8000.	0.	0.	1655.	0.	151.	24.	1286.00
.56	.00	4.83	.00	.000	.018	.000	.000	1280.30	90.00
.001449	100.	100.	100.	3	0	0	.00	867.22	957.22

1490 NH CARD USED
#SECNO 10600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1285.00

10600.00	3.77	1285.77	.00	.00	1285.91	.15	.86	.02	1283.00
8000.	0.	8000.	0.	0.	2602.	0.	180.	38.	1286.90
.62	.00	3.07	.00	.000	.030	.000	.000	1282.00	90.00
.001415	600.	600.	600.	2	0	0	.00	1227.89	1317.89

1490 NH CARD USED
#SECNO 11100.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.20 ELREA= 1285.00

11100.00	4.99	1286.29	.00	.00	1286.37	.08	.45	.01	1283.20
8000.	0.	8000.	0.	0.	3434.	0.	215.	53.	1287.00
.68	.00	2.33	.00	.000	.030	.000	.000	1281.30	90.00
.000630	500.	500.	500.	2	0	0	.00	1339.04	1429.04

1490 NH CARD USED

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

#SECNO 11200.000

3495 OVERBANK AREA ASSUMED I 00

11200.00	4.35	1286.35						00	1285.50
8000.	0.	8000.						6.	1287.00
.69	.00	2.31						.00	90.80
.000619	100.	100						.30	1440.10

1490 NH CARD USED
#SECNO 11400.000

3302 WARNING: CONVEYANCE

8,000 ok?

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.60 ELREA= 1287.00

11400.00	11.04	1286.34	.00	.00	1286.52	.18	.05	.03	1285.60
8000.	4141.	3859.	0.	888.	3413.	0.	241.	63.	1287.00
.71	4.66	1.13	.00	.018	.030	.000	.000	1275.30	.46
.000148	200.	200.	200.	2	0	0	.00	1419.94	1420.40

1490 NH CARD USED
#SECNO 11900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.80 ELREA= 1287.00

11900.00	10.92	1286.42	.00	.00	1286.59	.17	.07	.00	1285.80
8000.	4005.	3995.	0.	878.	3527.	0.	291.	79.	1287.00
.76	4.56	1.13	.00	.018	.030	.000	.000	1275.50	.58
.000144	500.	500.	500.	2	0	0	.00	1430.21	1430.79

1490 NH CARD USED
#SECNO 12300.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.90 ELREA= 1288.00

12300.00	10.89	1286.49	.00	.00	1286.65	.16	.06	.00	1285.90
8000.	3926.	4074.	0.	874.	3605.	0.	331.	92.	1288.00
.80	4.49	1.13	.00	.018	.030	.000	.000	1275.60	.62
.000140	400.	400.	400.	0	0	0	.00	1437.15	1437.77

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 11200.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1286.70 ELREA= 1285.00

11200.00	4.35	1286.35	.00	.00	1286.44	.09	.06	.00	1285.50
8000.	0.	8000.	0.	0.	3463.	0.	223.	56.	1287.00
.69	.00	2.31	.00	.000	.030	.000	.000	1282.00	90.80
.000619	100.	100.	100.	2	0	0	.00	1349.30	1440.10

1490 NH CARD USED
#SECNO 11400.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.60 ELREA= 1287.00

11400.00	11.04	1286.34	.00	.00	1286.52	.18	.05	.03	1285.60
8000.	4141.	3859.	0.	888.	3413.	0.	241.	63.	1287.00
.71	4.66	1.13	.00	.018	.030	.000	.000	1275.30	.46
.000148	200.	200.	200.	2	0	0	.00	1419.94	1420.40

1490 NH CARD USED
#SECNO 11900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.80 ELREA= 1287.00

11900.00	10.92	1286.42	.00	.00	1286.59	.17	.07	.00	1285.80
8000.	4005.	3995.	0.	878.	3527.	0.	291.	79.	1287.00
.76	4.56	1.13	.00	.018	.030	.000	.000	1275.50	.58
.000144	500.	500.	500.	2	0	0	.00	1430.21	1430.79

1490 NH CARD USED
#SECNO 12300.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.90 ELREA= 1288.00

12300.00	10.89	1286.49	.00	.00	1286.65	.16	.06	.00	1285.90
8000.	3926.	4074.	0.	874.	3605.	0.	331.	92.	1288.00
.80	4.49	1.13	.00	.018	.030	.000	.000	1275.60	.62
.000140	400.	400.	400.	0	0	0	.00	1437.15	1437.77

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

1490 NH CARD USED
#SECNO 12400.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1283.70 ELREA= 1287.00

12400.00	10.80	1286.50	.00	.00	1286.67	.17	.01	.00	1283.70
8000.	3950.	4050.	0.	869.	3663.	0.	342.	96.	1287.00
.81	4.55	1.11	.00	.018	.030	.000	.000	1275.70	.70
.000144	100.	100.	100.	0	0	0	.00	1530.11	1530.81

1490 NH CARD USED
#SECNO 12900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1283.90 ELREA= 1287.00

12900.00	10.68	1286.58	.00	.00	1286.74	.16	.07	.00	1283.90
8000.	3820.	4180.	0.	858.	3676.	0.	394.	113.	1287.00
.86	4.45	1.14	.00	.018	.030	.000	.000	1275.90	.82
.000140	500.	500.	500.	1	0	0	.00	1448.32	1449.14

1490 NH CARD USED
#SECNO 13200.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.00 ELREA= 1287.50

13200.00	10.63	1286.63	.00	.00	1286.78	.15	.04	.00	1284.00
8000.	3771.	4229.	0.	853.	3719.	0.	425.	123.	1287.50
.89	4.42	1.14	.00	.018	.030	.000	.000	1276.00	.38
.000139	300.	300.	300.	0	0	0	.00	1454.58	1454.96

1490 NH CARD USED
#SECNO 13600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.20 ELREA= 1288.00

13600.00	10.49	1286.69	.00	.00	1286.84	.14	.05	.00	1284.20
8000.	3654.	4346.	0.	842.	3809.	0.	467.	136.	1288.00
.93	4.34	1.14	.00	.018	.030	.000	.000	1276.20	.32
.000136	400.	400.	400.	0	0	0	.00	1461.75	1462.08

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	GLOB	GCH	GROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1490 NH CARD USED
#SECNO 13700.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.20 ELREA= 1288.70

13700.00	4.60	1286.80	.00	.00	1286.87	.06	.02	.01	1287.20
8000.	0.	8000.	0.	0.	3963.	0.	477.	139.	1288.70
.95	.00	2.02	.00	.000	.030	.000	.000	1282.20	92.88
.000409	100.	100.	100.	2	0	0	.00	1383.73	1476.61

#SECNO 13800.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.20 ELREA= 1288.70

13800.00	4.65	1286.85	.00	.00	1286.91	.06	.04	.00	1287.20
8000.	0.	8000.	0.	0.	4010.	0.	486.	142.	1288.70
.96	.00	2.00	.00	.000	.030	.000	.000	1282.20	92.80
.000394	100.	100.	100.	1	0	0	.00	1387.89	1480.69

THIS RUN EXECUTED 8/ 3/90 10:45:13

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HEC2 RELEASE DATED SEPT 88

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

ARIZONA CANAL INTERCEPTO

SUMMARY PRINTOUT TABLE 120

	SECNO	CWSEL	EG	VCH	10*KS	DEPTH	TOPWID	CLSTA	BW	STCHL	XLBEL	STCHR	RBEL
	5900.000	1279.61	1279.76	3.09	2.84	13.11	244.82	.00	.01	91.80	1284.00	486.80	1281.50
	6010.000	1279.72	1279.79	2.16	1.87	12.72	444.65	.00	.01	91.80	1284.00	703.00	1285.00
	6117.000	1279.73	1279.83	2.52	3.56	10.33	491.12	.00	.01	88.30	1280.50	703.00	1285.00
	6337.000	1279.79	1279.89	2.48	2.25	10.29	307.08	.00	.01	88.30	1280.80	457.00	1285.00
*	6557.000	1279.88	1279.92	1.59	.67	10.28	327.02	.00	.01	90.00	1280.70	484.00	1290.00
	6777.000	1279.91	1279.93	1.29	.40	10.21	330.09	.00	.01	88.30	1280.80	484.00	1290.00
*	6997.000	1279.93	1279.94	.61	.09	10.13	625.53	.00	.01	88.80	1281.00	829.00	1285.00
*	7217.000	1279.88	1280.00	2.70	2.04	9.68	138.11	200.00	80.00	89.60	1281.00	938.00	1280.00
	7329.000	1279.91	1280.02	2.69	2.02	9.71	138.21	200.00	80.00	88.60	1284.00	1226.00	1282.00
	7431.000	1279.91	1280.07	3.23	2.98	9.01	116.03	200.00	80.00	117.50	1284.50	1220.00	1282.00
*	7499.000	1279.85	1280.15	4.44	14.28	8.85	78.85	.00	.01	117.00	1284.80	200.00	1284.00
*	7532.000	1280.29	1280.56	4.21	2.27	9.29	79.29	.00	.01	117.00	1284.80	200.00	1284.00
*	7692.000	1280.49	1280.59	2.59	.64	9.29	137.16	220.00	100.00	116.40	1284.80	1285.00	1285.00
	7772.000	1280.49	1280.60	2.61	.65	9.21	137.01	250.00	100.00	122.00	1283.50	1285.00	1285.00
	8100.000	1280.51	1280.63	2.72	.74	8.88	135.54	250.00	100.00	122.00	1285.00	1520.00	1285.00
	8600.000	1280.54	1280.67	2.90	.90	8.41	133.66	250.00	100.00	116.00	1285.00	1680.00	1285.50
	8700.000	1280.55	1280.68	2.94	.93	8.32	133.28	250.00	100.00	116.00	1283.60	1570.00	1285.00

	SECNO	CWSEL	EG	VCH	10*KS	DEPTH	TOPWID	CLSTA	BW	STCHL	XLBEL	STCHR	RBEL
	8920.000	1280.56	1280.70	3.01	1.01	8.11	132.47	250.00	100.00	92.00	1284.10	1700.00	1286.00
	9140.000	1280.61	1280.73	2.78	.88	7.94	131.75	250.00	100.00	92.00	1284.10	1700.00	1286.00
	9360.000	1280.65	1280.75	2.48	.72	7.76	131.05	250.00	100.00	92.00	1284.00	1490.00	1286.00
	9460.000	1280.69	1280.76	2.03	.49	7.70	130.81	250.00	100.00	92.00	1284.00	1490.00	1286.00
	9600.000	1280.70	1280.77	2.13	.79	7.57	157.04	250.00	100.00	90.50	1282.50	300.02	1290.00
	9770.000	1280.71	1280.78	2.18	.85	7.41	157.40	250.00	100.00	90.50	1282.50	300.01	1281.83
*	9800.000	1280.79	1280.79	.28	.02	7.46	1611.65	250.00	100.00	90.00	1282.50	1800.00	1286.00
*	9885.000	1281.71	1282.24	5.88	47.86	1.71	282.65	200.00	115.00	90.00	1282.50	1220.00	1286.00
*	9900.000	1283.88	1284.75	7.48	41.65	3.58	642.71	.00	.01	90.00	1282.50	1220.00	1286.00
*	10000.000	1284.67	1285.03	4.83	14.49	4.37	867.22	.00	.01	90.00	1282.50	1220.00	1286.00
	10600.000	1285.77	1285.91	3.07	14.15	3.77	1227.89	.00	.01	90.00	1283.00	1550.00	1286.90
*	11100.000	1286.29	1286.37	2.33	6.30	4.99	1339.04	.00	.01	90.00	1283.20	1550.00	1287.00
	11200.000	1286.35	1286.44	2.31	6.19	4.35	1349.30	.00	.01	90.80	1285.50	1550.00	1287.00
*	11400.000	1286.34	1286.52	1.13	1.48	11.04	1419.94	.00	.01	90.80	1285.60	1500.00	1287.00
	11900.000	1286.42	1286.59	1.13	1.44	10.92	1430.21	.00	.01	90.80	1285.80	1500.00	1287.00
	12300.000	1286.49	1286.65	1.13	1.40	10.89	1437.15	.00	.01	90.80	1285.90	1680.00	1288.00
	12400.000	1286.50	1286.67	1.11	1.44	10.80	1530.11	.00	.01	89.50	1283.70	1680.00	1287.00
	12900.000	1286.58	1286.74	1.14	1.40	10.68	1448.32	.00	.01	89.50	1283.90	1500.00	1287.00
	13200.000	1286.63	1286.78	1.14	1.39	10.63	1454.58	.00	.01	89.00	1284.00	1680.00	1287.50
	13600.000	1286.69	1286.84	1.14	1.36	10.49	1461.75	.00	.01	89.00	1284.20	1680.00	1288.00
*	13700.000	1286.80	1286.87	2.02	4.09	4.60	1383.73	.00	.01	92.00	1287.20	1680.00	1288.70
	13800.000	1286.85	1286.91	2.00	3.94	4.65	1387.89	.00	.01	92.00	1287.20	1680.00	1288.70

ARIZONA CANAL INTERCEPTO

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	5900.000	.00	.00	.00	1266.50	5500.00	1279.61	.00	1279.76	2.84	3.09	1777.18	3264.32
	6010.000	110.00	.00	.00	1267.00	5500.00	1279.72	.00	1279.79	1.87	2.16	2542.37	4021.26
	6117.000	107.00	.00	.00	1269.40	5500.00	1279.73	.00	1279.83	3.56	2.52	2179.91	2914.26
	6337.000	220.00	.00	.00	1269.50	4697.00	1279.79	.00	1279.89	2.25	2.48	1896.07	3133.84
*	6557.000	220.00	.00	.00	1269.60	4070.00	1279.88	.00	1279.92	.67	1.59	2563.67	4967.96
	6777.000	220.00	.00	.00	1269.70	3575.00	1279.91	.00	1279.93	.40	1.29	2779.72	5667.43
*	6997.000	220.00	.00	.00	1269.80	3168.00	1279.93	.00	1279.94	.09	.61	5195.31	10536.66
*	7217.000	220.00	.00	.00	1270.20	2850.00	1279.88	.00	1280.00	2.04	2.70	1056.16	1997.37
	7329.000	112.00	.00	.00	1270.20	2850.00	1279.91	.00	1280.02	2.02	2.69	1058.58	2003.97
	7431.000	102.00	.00	.00	1270.90	2850.00	1279.91	.00	1280.07	2.98	3.23	882.95	1652.00
*	7499.000	18.00	.00	.00	1271.00	2850.00	1279.85	.00	1280.15	14.28	4.44	642.37	754.22
*	7532.000	80.00	1286.00	1279.00	1271.00	2850.00	1280.29	.00	1280.56	2.27	4.21	677.17	1892.89
*	7692.000	140.00	.00	.00	1271.20	2850.00	1280.49	.00	1280.59	.64	2.59	1101.51	3571.35
	7772.000	80.00	.00	.00	1271.28	2850.00	1280.49	.00	1280.60	.65	2.61	1092.16	3523.88
	8100.000	350.00	.00	.00	1271.63	2850.00	1280.51	.00	1280.63	.74	2.72	1046.54	3307.39
	8600.000	500.00	.00	.00	1272.13	2850.00	1280.54	.00	1280.67	.90	2.90	983.29	3011.29
	8700.000	100.00	.00	.00	1272.23	2850.00	1280.55	.00	1280.68	.93	2.94	970.37	2951.83
	8920.000	220.00	.00	.00	1272.45	2838.00	1280.56	.00	1280.70	1.01	3.01	943.63	2829.86
	9140.000	220.00	.00	.00	1272.67	2560.00	1280.61	.00	1280.73	.88	2.78	919.77	2722.41
	9360.000	220.00	.00	.00	1272.89	2222.00	1280.65	.00	1280.75	.72	2.48	896.79	2620.06
	9460.000	100.00	.00	.00	1272.99	1804.00	1280.69	.00	1280.76	.49	2.03	889.04	2585.81
	9600.000	140.00	.00	.00	1273.13	1750.00	1280.70	.00	1280.77	.79	2.13	822.95	1971.92
	9770.000	170.00	.00	.00	1273.30	1750.00	1280.71	.00	1280.78	.85	2.18	804.43	1897.30
*	9800.000	30.00	.00	.00	1273.33	1750.00	1280.79	.00	1280.79	.02	.28	6318.41	12964.96

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	9885.000	85.00	.00	.00	1280.00	1750.00	1281.71	1281.71	1282.24	47.86	5.88	297.49	252.96
*	9900.000	39.00	.00	.00	1280.30	8000.00	1283.88	1283.88	1284.75	41.65	7.48	1069.44	1239.68
*	10000.000	100.00	.00	.00	1280.30	8000.00	1284.67	.00	1285.03	14.49	4.83	1654.94	2101.93
	10600.000	600.00	.00	.00	1282.00	8000.00	1285.77	.00	1285.91	14.15	3.07	2602.25	2126.74
*	11100.000	500.00	.00	.00	1281.30	8000.00	1286.29	.00	1286.37	6.30	2.33	3433.68	3186.45
	11200.000	100.00	.00	.00	1282.00	8000.00	1286.35	.00	1286.44	6.19	2.31	3462.56	3214.43
*	11400.000	200.00	.00	.00	1275.30	8000.00	1286.34	.00	1286.52	1.48	1.13	4300.77	6567.61
	11900.000	500.00	.00	.00	1275.50	8000.00	1286.42	.00	1286.59	1.44	1.13	4405.14	6668.57
	12300.000	400.00	.00	.00	1275.60	8000.00	1286.49	.00	1286.65	1.40	1.13	4479.14	6757.53
	12400.000	100.00	.00	.00	1275.70	8000.00	1286.50	.00	1286.67	1.44	1.11	4532.33	6676.32
	12900.000	500.00	.00	.00	1275.90	8000.00	1286.58	.00	1286.74	1.40	1.14	4533.38	6763.05
	13200.000	300.00	.00	.00	1276.00	8000.00	1286.63	.00	1286.78	1.39	1.14	4571.71	6793.86
	13600.000	400.00	.00	.00	1276.20	8000.00	1286.69	.00	1286.84	1.36	1.14	4650.85	6857.17
*	13700.000	100.00	.00	.00	1282.20	8000.00	1286.80	.00	1286.87	4.09	2.02	3962.78	3957.29
	13800.000	100.00	.00	.00	1282.20	8000.00	1286.85	.00	1286.91	3.94	2.00	4009.98	4028.08

ARIZONA CANAL INTERCEPTO

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	5900.000	5500.00	1279.61	.00	.00	.00	244.82	.00
	6010.000	5500.00	1279.72	.00	.11	.00	444.65	110.00
	6117.000	5500.00	1279.73	.00	.01	.00	491.12	107.00
	6337.000	4697.00	1279.79	.00	.07	.00	307.08	220.00
*	6557.000	4070.00	1279.88	.00	.09	.00	327.02	220.00
	6777.000	3575.00	1279.91	.00	.03	.00	330.09	220.00
*	6997.000	3168.00	1279.93	.00	.03	.00	625.53	220.00
*	7217.000	2850.00	1279.88	.00	-.05	.00	138.11	220.00
	7329.000	2850.00	1279.91	.00	.02	.00	138.21	112.00
	7431.000	2850.00	1279.91	.00	.00	.00	116.03	102.00
*	7499.000	2850.00	1279.85	.00	-.06	.00	78.85	18.00
*	7532.000	2850.00	1280.29	.00	.44	.00	79.29	80.00
*	7692.000	2850.00	1280.49	.00	.20	.00	137.16	140.00
	7772.000	2850.00	1280.49	.00	.00	.00	137.01	80.00
	8100.000	2850.00	1280.51	.00	.02	.00	135.54	350.00
	8600.000	2850.00	1280.54	.00	.03	.00	133.66	500.00
	8700.000	2850.00	1280.55	.00	.01	.00	133.28	100.00
	8920.000	2838.00	1280.56	.00	.02	.00	132.47	220.00
	9140.000	2560.00	1280.61	.00	.04	.00	131.75	220.00
	9360.000	2222.00	1280.65	.00	.05	.00	131.05	220.00
	9460.000	1804.00	1280.69	.00	.04	.00	130.81	100.00
	9600.000	1750.00	1280.70	.00	.00	.00	157.04	140.00
	9770.000	1750.00	1280.71	.00	.01	.00	157.40	170.00
*	9800.000	1750.00	1280.79	.00	.08	.00	1611.65	30.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	9885.000	1750.00	1281.71	.00	.92	.00	282.65	85.00
*	9900.000	8000.00	1283.88	.00	2.18	.00	642.71	39.00
*	10000.000	8000.00	1284.67	.00	.79	.00	867.22	100.00
	10600.000	8000.00	1285.77	.00	1.10	.00	1227.89	600.00
*	11100.000	8000.00	1286.29	.00	.52	.00	1339.04	500.00
	11200.000	8000.00	1286.35	.00	.06	.00	1349.30	100.00
*	11400.000	8000.00	1286.34	.00	-.02	.00	1419.94	200.00
	11900.000	8000.00	1286.42	.00	.09	.00	1430.21	500.00
	12300.000	8000.00	1286.49	.00	.07	.00	1437.15	400.00
	12400.000	8000.00	1286.50	.00	.01	.00	1530.11	100.00
	12900.000	8000.00	1286.58	.00	.08	.00	1448.32	500.00
	13200.000	8000.00	1286.63	.00	.05	.00	1454.58	300.00
	13600.000	8000.00	1286.69	.00	.06	.00	1461.75	400.00
*	13700.000	8000.00	1286.80	.00	.11	.00	1383.73	100.00
	13800.000	8000.00	1286.85	.00	.04	.00	1387.89	100.00

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 6557.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 6997.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 7217.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 7499.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 7532.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 7692.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 9800.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 9885.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 9885.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 9885.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

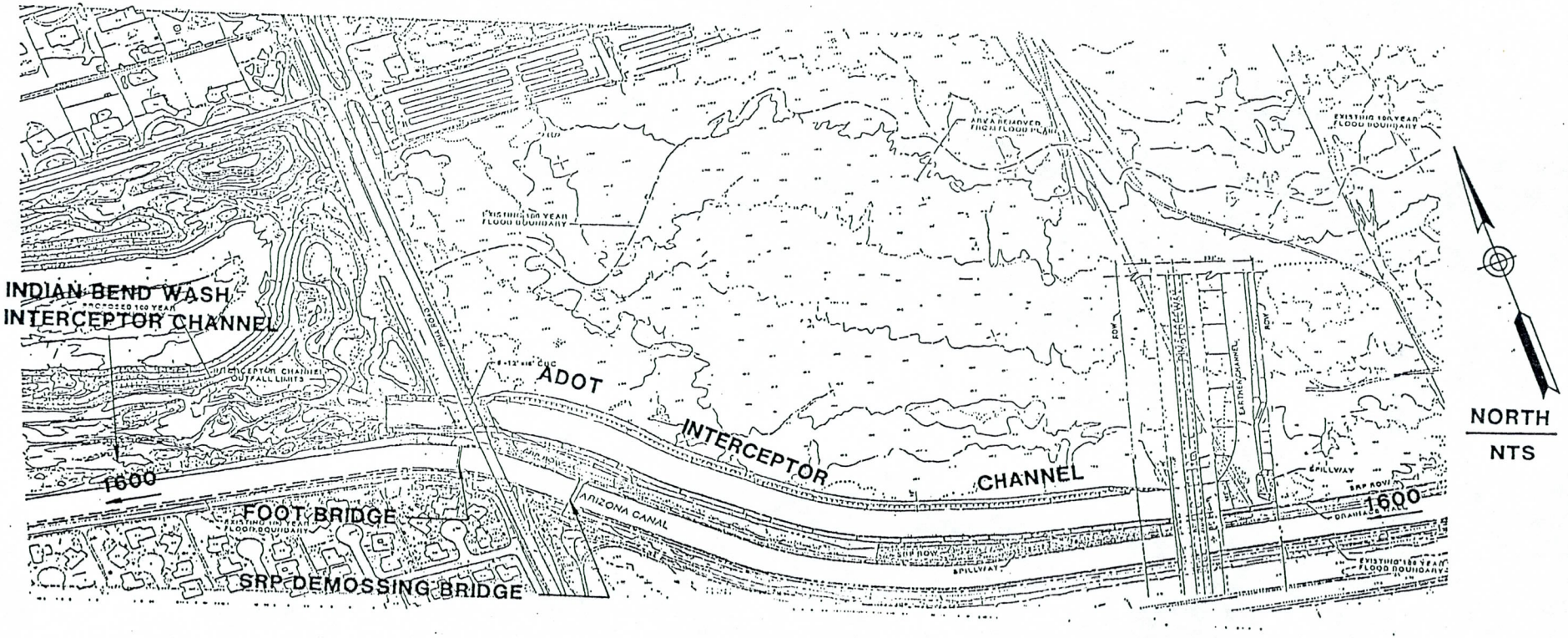
CAUTION SECNO= 9900.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 9900.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 9900.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 10000.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 11100.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 11400.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 13700.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE



PROFILE I

Q:1600 CFS,SRP OPERATING FLOW

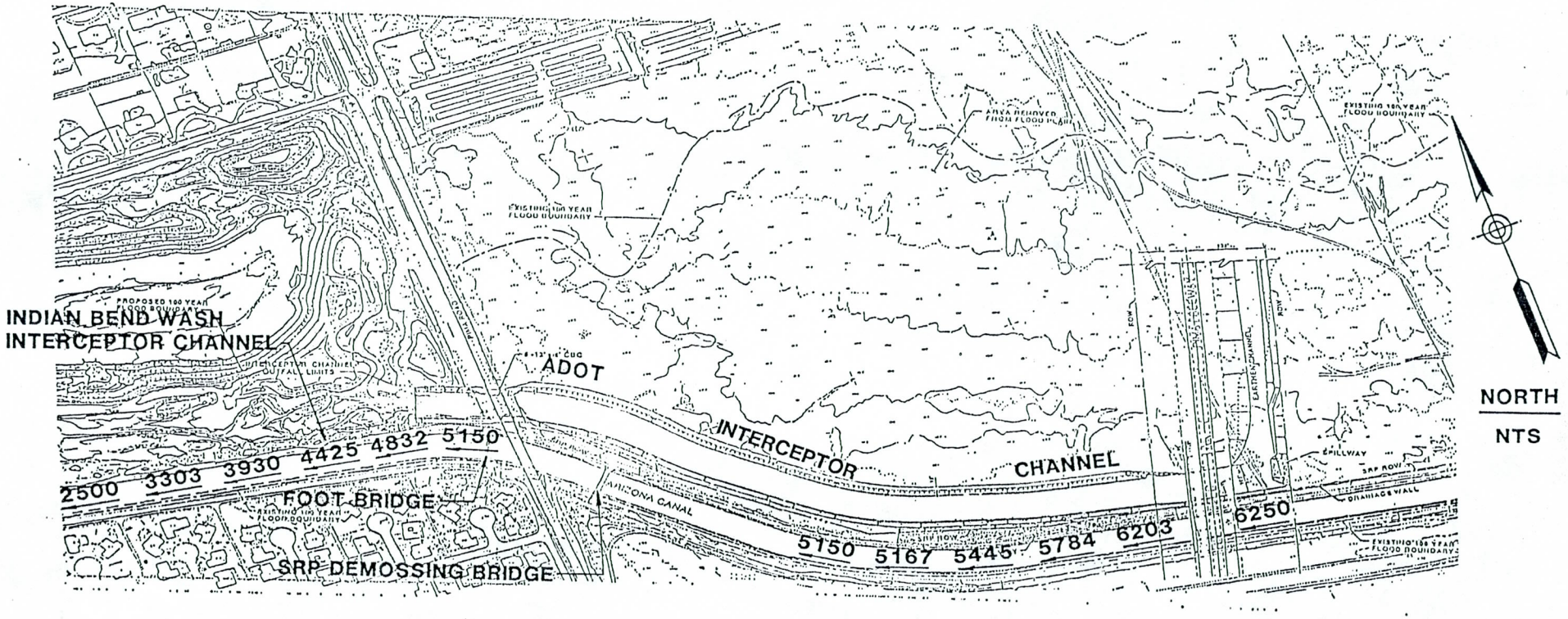
LEGEND

1600 FLOW,CFS,SRP OPERATING FLOW

—— FLOW PATH

APPENDIX G (PROFILE I)

HEC-2 COMPUTER MODEL
SIMULATED SRP OPERATIONS
ARIZONA CANAL (LINED)



PROFILE 2

Q:2500 CFS THRU Q:5150 CFS } DOWNSTREAM OF PIMA ROAD

Q:5150 CFS THRU Q:6250 CFS } UPSTREAM OF PIMA ROAD

LEGEND

5150 FLOW,CFS,ADOT CONCEPT

FLOW PATH

APPENDIX G (PROFILE 2)

HEC-2 COMPUTER MODEL

SIMULATED ADOT CONCEPT

ARIZONA CANAL (LINED)

```
**************************************************
*  WATER SURFACE PROFILES                        *
*  VERSION OF SEPTEMBER 1988                     *
*                                                *
*                                                *
*  RUN DATE     8/29/90    TIME   16:27:57       *
**************************************************
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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                      *
****************************************
```


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

END OF BANNER

THIS RUN EXECUTED 8/29/90 16:27:57

****
HEC2 RELEASE DATED SEPT 88

****

****
* F I N A L *
****

* * * * * * * * * * * * * * * * *
* A P P E N D I X G *
* * * * * * * * * * * * * * * * *

THIS FILE IS NAMED: APNDXGR.IN

THIS MODEL IS FOR DESIGN EVALUATION

DATUM IS CORPS OF ENGINEERS (COE)

------- ARIZONA CANAL ONLY ---------

CHANNEL IMPROVEMENT (CI) CARDS ARE NOT USED FOR THIS MODEL

PROFILE 1 Q = 1600 CFS SRP OPERATING FLOW

PROFILE 2 Q = 2500 CFS ADOT DESIGN FLOWS FOR ARIZONA
THRU CANAL ONLY
Q = 6250 CFS

T1 ARIZONA CANAL AND SPILLWAYS
T2 CORPS OF ENGINEERS DATUM
T3 ARIZONA CANAL SRP OPERATING CONDITIONS

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2							1280.5	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	-1							15

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

	120	150			
NC	0.030	0.030	0.018	.1	.3
QT	2	1600	2500		

SRP INDIAN BEND SIPHON RADIAL GATES ARIZONA CANAL DOWNSTREAM

X1	591.2	4	20	76.001	0	0	0	
X3	10							
GR	1281.4	20	1271.4	20.001	1271.4	76	1281.4	76.001

SRP INDIAN BEND SIPHON RADIAL GATES ARIZONA CANAL UPSTREAM

X1	605.2				14	14	14	
X3	10							
X1	631.2	4	0	90	26	26	26	
X3	10							
GR	1281.4	0	1271.4	10	1271.4	80	1281.4	90
X1	1000.0	4	0	90	369	369	369	
X3	10							
GR	1281.4	0	1271.5	10	1271.5	80	1281.4	90
X1	1200.0	4	0	90	200	200	200	
X3	10							
GR	1281.4	0	1271.5	10	1271.5	80	1281.4	90
X1	1600.0	4	0	90	400	400	400	
X3	10							
GR	1281.7	0	1271.6	10	1271.6	80	1281.2	90

HAYDEN BRIDGE DOWNSTREAM

NC	0	0	0	.3	.5					
X1	1895.0	8	7.5	93.8	295	295	295			
X2				1283.3	1284.3					
X3	10									
GR	1283.2	7.5	1271.7	15	1271.7	50	1283.2	50.001	1283.2	51.3
GR	1271.7	51.301	1271.7	86.3	1283.3	93.8				

HAYDEN BRIDGE UPSTREAM

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X1   1985.0        0        0        0       90       90       90
X2                                 1283.3   1284.3
X3        10

NC                                    .1       .3
X1   2500.0        4        0       91      515      515      515
X3        10
GR   1283.3        0   1271.9     11.4   1271.9     81.4   1281.6       91

X1   2900.0        4        0       89      400      400      400
X3        10
GR   1282.9        0   1272.0     10.9   1272.0       80   1281.0       89

X1   3155.1        4        0       91      255      255      255
X3        10
GR   1282.9        0   1272.1       10   1272.1       80   1281.6       91

X1   3365.0        4        0       92      210      210      210
X3        10
GR   1282.9        0   1272.2       11   1272.2       81   1281.6       92

X1   4000.0        4        0       91      635      635      635
X3        10
GR   1283.1        0   1272.4       11   1272.4       81   1282.7       91

X1   4350.0        4        0       93      350      350      350
X3        10
GR   1282.8        0   1272.5       10   1272.5       80   1283.3       93

X1   4800.0        4        0       95      450      450      450
X3        10
GR   1282.4        0   1272.7       10   1272.7       80   1282.2       95

X1   5300.0        4        0       91      500      500      500
X3        10
GR   1283.1        0   1272.9       11   1272.9       81   1283.1       91

X1   5850.0        4        0       91      550      550      550
X3        10
GR   1283.8        0   1273.1       11   1273.1       81   1283.9       91

X1   5900.0        5        0     91.8       50       50       50
X3        10
GR   1284.2        0   1273.2       11   1273.2       81   1284.0     91.8   1281.4   226.6

X1   6010.0        0        0        0      110      110      110
X3        10

        BEGIN COE SPILLWAY DOWNSTREAM
```

QT	2	1600	2500							
X1	6117.0	5	0	88.3	107	107	107			
X3	10									
GR	1284.2	0	1273.2	11	1273.2	81	1280.5	88.3	1279.5	111
QT	2	1600	3303							
X1	6337.0	5	0	88.3	220	220	220			
X3	10									
GR	1284.2	0	1273.3	11	1273.3	81	1280.6	88.3	1279.6	111
QT	2	1600	3930							
X1	6557.0	5	0	88.3	220	220	220			
X3	10									
GR	1284.5	0	1273.4	11	1273.4	81	1280.7	88.3	1279.7	115.4
QT	2	1600	4425							
X1	6777.0	5	0	88.3	220	220	220			
X3	10									
GR	1284.5	0	1273.5	11	1273.5	81	1280.8	88.3	1279.8	113.5
QT	2	1600	4832							
X1	6997.0	5	0	88.6	220	220	220			
X3	10									
GR	1285.0	0	1273.6	11.3	1273.6	81.3	1280.9	88.6	1279.9	113.5

END COE SPILLWAY UPSTREAM

QT	2	1600	5150							
X1	7217.0	5	0	88.6	220	220	220			
X3	10									
GR	1285.0	0	1273.7	11.3	1273.7	81.3	1281.0	88.6	1280.0	113.8
X1	7329.0	5	0	92.3	112	112	112			
X3	10									
GR	1285.0	0	1273.7	11.3	1273.7	81.3	1284.0	92.3	1284.8	115
X1	7431.0	10	0	92.3	180	180	180			
X3	10									
GR	1285.0	0	1273.7	11.3	1273.7	81.3	1284.7	92.3	1284.5	117.5
GR	1285.0	127.5	1278.3	142.5	1278.3	152.5	1285.0	168	1285.2	210

FOOT BRIDGE DOWNSTREAM

```
X1   7452.0      10        0      92.3      161       161       161
CI    156      1270.2    0.030       2        2                  80
X2                                1283.9    1284.9
X3      10
GR   1285.0       0      1273.7     11.8     1273.7     81.3     1284.7     92.3     1284.5     117.5
GR   1285.0     127.5    1278.3     142.5    1278.3     152.5    1285.0     168      1285.0     196
```

FOOT BRIDGE UPSTREAM

```
X1   7458.0       0         0         0         6         6         6
CI     .01       .01       .01       .01       .01                 .01
X2                                  1283.9    1284.9
X3      10
```

PIMA ROAD DOWNSTREAM

```
NC    0.030     0.030     0.018      .3        .5
QT        2      1600      5150
X1   7499.0       37        0       92        80        80        80
X2                                  1284.0    1286.0
X3      10
GR   1285.0       0      1273.8     11.2     1273.8     30.5     1284.0     30.501   1284.0     31.8
GR   1273.8    31.801    1273.8     61.5     1284.0     61.501   1284.0     62.8     1273.8     62.801
GR   1273.8     81.3     1285.0     92       1279.0     117      1271.0     117.001  1271.0     129
GR   1279.0    129.001   1279.0     130      1271.0     130.001  1271.0     142      1279.0     142.001
GR   1279.0     143      1271.0     143.001  1271.0     155      1279.0     155.001  1279.0     156
GR   1271.0    156.001   1271.0     168      1279.0     168.001  1279.0     169      1271.0     169.001
GR   1271.0     181      1279.0     181.001  1279.0     182      1271.0     182.001  1271.0     194
GR   1279.0    194.001   1279.0     195
```

PIMA ROAD UPSTREAM

```
X1   7532.0       0         0         0         33        33        33
X2                                  1284.0    1286.0
X3      10

NC        0         0         0        .1        .3
QT        2      1600      5150
X1   7680.0       11        0       92.2      148       148       148
CI    220      1271.2    0.018       2        2                  100
X3      10
GR   1285.0       0      1273.9     11.2     1273.9     81.2     1285.0     92.2     1284.8     116.4
GR   1285.0     126.0    1280.5     137.0    1282.0     650.0    1283.0     750      1284.0     900
GR   1285.0      1285
```

SRP DEMOSSING BRIDGE DOWNSTREAM

NC	0	0	0	.3	.5					
X1	7760.0	11	0	92	80	80	80			
CI	250	0.001								
X3	10									
GR	1285.0	0	1274.0	11	1274.0	81	1285.0	92	1283.5	122
GR	1284.0	126	1280.5	137	1282.0	332	1283.0	937	1284.0	1000
GR	1285.0	1290								

SRP DEMOSSING BRIDGE UPSTREAM

X1	7772.0	16	0	91.7	12	12	12			
CI										
X3	10									
BT	4	0.3	1284.7	1284.7	3.6	1284.7	1281.7	88.7	1284.7	1281.7
BT	91.7	1284.7	1284.7							
GR	1285.0	0	1284.7	0.3	1281.7	3.6	1274.0	11	1274.0	81
GR	1281.7	88.7	1284.7	91.7	1284.9	91.9	1283.5	122	1284.0	126
GR	1280.1	160	1280.3	290	1282.0	670	1283.0	800	1284.0	920
GR	1285.0	1200								
NC	0	0	0	.1	.3					
X1	8100.0	12	0	92.5	328	328	328			
CI										
X3	10									
GR	1285.6	0	1274.1	11.5	1274.1	81.5	1285.0	92.5	1285.0	122
GR	1282.6	130	1281.3	220	1281.6	330	1282.0	450	1283.0	950
GR	1284.0	1250	1285.0	1520						

BEGIN ARIZONA CANAL SPILLWAY # 1 NORTH BANK

X1	8600.0	13	0	92.5	500	500	500			
CI										
X3	10									
GR	1285.7	0	1274.2	11.5	1274.2	81.5	1285.2	92.5	1285.0	116
GR	1280.8	126	1280.9	320	1281.0	402	1282.0	450	1283.0	896
GR	1284.0	1200	1285.0	1600	1285.5	1680				

```
QT       2      1600      5164
X1    8700.0      13         0        91       100       100       100
CI
X3      10
GR    1285.8       0    1274.3      11.5    1274.3      81.5    1283.8        91    1283.6       116
GR    1281.4     120    1281.0     352.0    1281.5       470    1282.0       652    1283.0       872
GR    1284.0    1200    1285.0      1540    1285.5      1680

QT       2      1600      5465
X1    8920.0      12         0        91       220       220       220
X3      10
GR    1286.0       0    1274.4      11.5    1274.4      81.5    1283.9        91    1281.2       117
GR    1280.9     250    1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR    1285.0    1400    1286.0      1700

QT       2      1600      5813
X1    9140.0      12         0        92       220       220       220
CI
X3      10
GR    1286.0       0    1274.5      12.5    1274.5      82.5    1284.0      92.0    1281.2       117
GR    1280.9     250    1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR    1285.0    1400    1286.0      1700

QT       2      1600      6210
X1    9360.0      11         0        92       220       220       220
CI
X3      10
GR    1287.0       0    1274.6      12.5    1274.6      82.5    1284.0      92.0    1283.6       116
GR    1281.5     400    1282.0       480    1283.0       760    1284.0      1030    1285.0      1250
GR    1286.0    1490

QT       2      1600      6250
X1    9460.0       0         0         0       100       100       100
CI
X3      10

        PROPOSED PIMA FREEWAY BRIDGE DOWNSTREAM


X1    9600.0      12         0      90.5       140       140       140
CI
X3      10
GR    1287.1       0    1274.6      12.5    1274.6      82.5    1282.5      90.5    1280.3       100
GR    1281.5     220    1281.0       350    1282.0       470    1283.0       690    1284.0      1070
GR    1285.0    1270    1286.0      1450

        PROPOSED PIMA FREEWAY BRIDGE UPSTREAM
```

```
X1   9770.0        0        0        0      170      170      170
CI
X3        10

X1   9900.0       11        0       90      130      130      130
CI     0.01     0.01     0.01     0.01     0.01                0.01
X3        10
GR   1286.8        0   1274.8       12   1274.8       82   1282.5       90   1280.3      150
GR   1281.5      210   1282.0      400   1283.0      600   1284.0      750   1285.0     1050
GR   1286.0     1220

X1   10000.        0        0        0      100      100      100
X3        10

NH        2    0.018       90    0.030     1550
X1   10600.       11        0       90      600      600      600
X3        10
GR   1287.0        0   1275.0       12   1275.0       82   1283.0       90   1283.2      100
GR   1282.0      260   1283.0      590   1284.0      840   1285.0     1120   1286.0     1380
GR   1286.9     1550

NH        2    0.018       90    0.030     1550
X1   11100.       12        0       90      500      500      500
X3        10
GR   1287.2        0   1275.2       12   1275.2       82   1283.2       90   1283.2      100
GR   1281.3      190   1282.0      230   1283.0      590   1284.0      850   1285.0     1190
GR   1286.0     1380   1287.0     1550
```

END ARIZONA SPILLWAY # 1 UPSTREAM NORTH BANK

```
NH        2    0.018     90.8    0.030     1550
X1   11200.       12        0     90.8      100      100      100
X3        10
GR   1286.7        0   1275.2     11.5   1275.2     81.5   1285.5     90.8   1283.2      100
GR   1281.3      190   1282.0      230   1283.0      590   1284.0      850   1285.0     1190
GR   1286.0     1380   1287.0     1550

NH        2    0.018     90.8    0.030     1500
X1   11400.       11        0     90.8      200      200      200
X3        10
GR   1286.8        0   1275.3     11.5   1275.3     81.5   1285.6     90.8   1283.2      100
GR   1282.0      230   1283.0      590   1284.0      850   1285.0     1190   1286.0     1380
GR   1287.0     1500

NH        2    0.018     90.8    0.030     1500
X1   11900.       11        0     90.8      500      500      500
X3        10
GR   1287.0        0   1275.5     11.5   1275.5     81.5   1285.8     90.8   1283.2      100
GR   1282.0      230   1283.0      590   1284.0      850   1285.0     1190   1286.0     1380
GR   1287.0     1500
```

BEGIN ARIZONA CANAL SPILLWAY # 2 DOWNSTREAM NORTH BANK

NH	2	0.018	90.8	0.030	1680					
X1	12300.	12	0	90.8	400	400	400			
X3	10									
GR	1287.1	0	1275.6	11.5	1275.6	81.5	1285.9	90.8	1283.2	100
GR	1282.0	230	1283.0	590	1284.0	850	1285.0	1190	1286.0	1380
GR	1287.0	1500	1288.0	1680						
NH	2	0.018	89.5	0.030	1680					
X1	12400.	11	0	89.5	100	100	100			
X3	10									
GR	1287.2	0	1275.7	11.5	1275.7	81.5	1283.7	89.5	1283.3	100
GR	1282.0	230	1283.0	590	1284.0	850	1285.0	1190	1286.0	1380
GR	1287.0	1680								
NH	2	0.018	89.5	0.030	1500					
X1	12900.	12	0	89.5	500	500	500			
X3	10									
GR	1287.4	0	1275.9	11.5	1275.9	81.5	1283.9	89.5	1283.4	100
GR	1282.2	230	1283.0	590	1284.0	850	1285.0	1190	1285.5	1270
GR	1286.0	1380	1287.0	1500						

CENTERLINE OF DOBSON ROAD EXTENDED AND 96TH STREET EXTENDED

NH	2	0.018	89	0.030	1680					
X1	13200.	12	0	89	300	300	300			
X3	10									
GR	1287.0	0	1276.0	11	1276.0	81	1284.0	89	1283.5	100
GR	1282.3	230	1283.0	590	1284.0	850	1285.0	1190	1286.0	1380
GR	1287.0	1500	1287.5	1680						
NH	2	0.018	89	0.030	1680					
X1	13600.	12	0	89	400	400	400			
X3	10									
GR	1287.0	0	1276.2	11	1276.2	81	1284.2	89	1283.7	100
GR	1282.2	230	1283.0	590	1284.0	850	1285.0	1190	1286.0	1380
GR	1287.0	1500	1288.0	1680						

END ARIZONA CANAL SPILLWAY # 2 DOWNSTREAM NORTH BANK (ESTIMATED)

```
NH       2     0.018        92     0.030      1680
X1   13700.        12         0        92       100       100       100
X3      10
GR  1287.1         0    1276.2        11    1276.2        81    1287.2        92    1283.6       100
GR  1282.2       230    1283.0       590    1284.0       850    1285.0      1190    1286.0      1380
GR  1287.0      1500    1288.7      1680

X1   13800.         0         0         0       100       100       100
X3      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

#PROF 1

CCHV= .100 CEHV= .300
#SECNO 591.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1281.40 ELREA= 1281.40

591.20	9.10	1280.50	.00	1280.50	1280.65	.15	.00	.00	1281.40
1600.	0.	1600.	0.	0.	510.	0.	0.	0.	1281.40
.00	.00	3.14	.00	.000	.018	.000	.000	1271.40	20.00
.000111	0.	0.	0.	0	0	0	.00	56.00	76.00

FLOW DISTRIBUTION FOR SECNO= 591.20 CWSEL= 1280.50

STA= 20. 76.
PER Q= 100.0
AREA= 509.6
VEL= 3.1
DEPTH= 9.1

#SECNO 605.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1281.40 ELREA= 1281.40

605.20	9.10	1280.50	.00	.00	1280.65	.15	.00	.00	1281.40
1600.	0.	1600.	0.	0.	510.	0.	0.	0.	1281.40
.00	.00	3.14	.00	.000	.018	.000	.000	1271.40	20.00
.000111	14.	14.	14.	0	0	0	.00	56.00	76.00

FLOW DISTRIBUTION FOR SECNO= 605.20 CWSEL= 1280.50

STA= 20. 76.
PER Q= 100.0
AREA= 509.7
VEL= 3.1
DEPTH= 9.1

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

#SECNO 631.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

631.20	9.19	1280.59	.00	.00	1280.66	.08	.00	.01	1281.40
1600.	0.	1600.	0.	0.	728.	0.	1.	0.	1281.40
.00	.00	2.20	.00	.000	.018	.000	.000	1271.40	.81
.000048	26.	26.	26.	2	0	0	.00	88.38	89.19

FLOW DISTRIBUTION FOR SECNO= 631.20 CWSEL= 1280.59

STA=	1.	90.
PER Q=	100.0	
AREA=	727.7	
VEL=	2.2	
DEPTH=	8.2	

#SECNO 1000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

1000.00	9.11	1280.61	.00	.00	1280.68	.08	.02	.00	1281.40
1600.	0.	1600.	0.	0.	722.	0.	7.	1.	1281.40
.05	.00	2.22	.00	.000	.018	.000	.000	1271.50	.80
.000049	369.	369.	369.	1	0	0	.00	88.41	89.20

FLOW DISTRIBUTION FOR SECNO= 1000.00 CWSEL= 1280.61

STA=	1.	90.
PER Q=	100.0	
AREA=	721.7	
VEL=	2.2	
DEPTH=	8.2	

#SECNO 1200.000

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

1200.00	9.12	1280.62	.00	.00	1280.69	.08	.01	.00	1281.40
1600.	0.	1600.	0.	0.	722.	0.	10.	1.	1281.40
.08	.00	2.22	.00	.000	.018	.000	.000	1271.50	.79
.000049	200.	200.	200.	0	0	0	.00	88.42	89.21

FLOW DISTRIBUTION FOR SECNO= 1200.00 CWSEL= 1280.62

STA= 1. 90.
PER Q= 100.0
AREA= 722.0
VEL= 2.2
DEPTH= 8.2

*SECNO 1600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.70 ELREA= 1281.20

1600.00	9.03	1280.63	.00	.00	1280.71	.08	.02	.00	1281.70
1600.	0.	1600.	0.	0.	715.	0.	17.	2.	1281.20
.13	.00	2.24	.00	.000	.018	.000	.000	1271.60	1.05
.000050	400.	400.	400.	0	0	0	.00	88.36	89.41

FLOW DISTRIBUTION FOR SECNO= 1600.00 CWSEL= 1280.63

STA= 1. 90.
PER Q= 100.0
AREA= 715.4
VEL= 2.2
DEPTH= 8.1

CCHV= .300 CEHV= .500
*SECNO 1895.000

3265 DIVIDED FLOW

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

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.30 MAX ELLC= 1283.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1283.30

1895.00	8.95	1280.65	.00	.00	1280.73	.09	.02	.00	1283.20
1600.	0.	1600.	0.	0.	678.	0.	21.	3.	1283.30
.16	.00	2.36	.00	.000	.018	.000	.000	1271.70	9.16
.000071	295.	295.	295.	0	0	0	.00	81.62	92.09

FLOW DISTRIBUTION FOR SECNO= 1895.00 CWSEL= 1280.65

STA=	9.	94.
PER Q=	100.0	
AREA=	678.5	
VEL=	2.4	
DEPTH=	8.3	

*SECNO 1985.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.30 MAX ELLC= 1283.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1283.30

1985.00	8.95	1280.65	.00	.00	1280.74	.09	.01	.00	1283.20
1600.	0.	1600.	0.	0.	679.	0.	23.	3.	1283.30
.17	.00	2.36	.00	.000	.018	.000	.000	1271.70	9.16
.000071	90.	90.	90.	0	0	0	.00	81.63	92.09

FLOW DISTRIBUTION FOR SECNO= 1985.00 CWSEL= 1280.65

STA=	9.	94.
PER Q=	100.0	
AREA=	678.8	
VEL=	2.4	
DEPTH=	8.3	

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

CCHV= .100 CEHV= .300
*SECNO 2500.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.30 ELREA= 1281.60

2500.00	8.79	1280.69	.00	.00	1280.77	.08	.03	.00	1283.30
1600.	0.	1600.	0.	0.	692.	0.	31.	4.	1281.60
.23	.00	2.31	.00	.000	.018	.000	.000	1271.90	2.61
.000055	515.	515.	515.	0	0	0	.00	87.49	90.10

FLOW DISTRIBUTION FOR SECNO= 2500.00 CWSEL= 1280.69

STA= 3. 91.
PER Q= 100.0
AREA= 692.3
VEL= 2.3
DEPTH= 7.9

*SECNO 2900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1281.00

2900.00	8.71	1280.71	.00	.00	1280.80	.09	.02	.00	1282.90
1600.	0.	1600.	0.	0.	678.	0.	37.	5.	1281.00
.28	.00	2.36	.00	.000	.018	.000	.000	1272.00	2.18
.000058	400.	400.	400.	0	0	0	.00	86.53	88.72

FLOW DISTRIBUTION FOR SECNO= 2900.00 CWSEL= 1280.71

STA= 2. 89.
PER Q= 100.0
AREA= 678.2
VEL= 2.4
DEPTH= 7.8

*SECNO 3155.100

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1281.60

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3155.10	8.63	1280.73	.00	.00	1280.81	.09	.01	.00	1282.90
1600.	0.	1600.	0.	0.	681.	0.	41.	5.	1281.60
.31	.00	2.35	.00	.000	.018	.000	.000	1272.10	2.01
.000058	255.	255.	255.	0	0	0	.00	87.97	89.99

FLOW DISTRIBUTION FOR SECNO= 3155.10 CWSEL= 1280.73

STA= 2. 91.
PER Q= 100.0
AREA= 681.3
VEL= 2.3
DEPTH= 7.7

#SECNO 3365.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1281.60

3365.00	8.54	1280.74	.00	.00	1280.82	.09	.01	.00	1282.90
1600.	0.	1600.	0.	0.	678.	0.	44.	6.	1281.60
.33	.00	2.36	.00	.000	.018	.000	.000	1272.20	2.22
.000060	210.	210.	210.	0	0	0	.00	88.77	90.99

FLOW DISTRIBUTION FOR SECNO= 3365.00 CWSEL= 1280.74

STA= 2. 92.
PER Q= 100.0
AREA= 677.9
VEL= 2.4
DEPTH= 7.6

#SECNO 4000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.10 ELREA= 1282.70

4000.00	8.37	1280.77	.00	.00	1280.87	.09	.04	.00	1283.10
1600.	0.	1600.	0.	0.	656.	0.	54.	7.	1282.70
.41	.00	2.44	.00	.000	.018	.000	.000	1272.40	2.39
.000065	635.	635.	635.	0	0	0	.00	86.74	89.13

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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= 4000.00 CWSEL= 1280.77

STA= 2. 91.
PER Q= 100.0
AREA= 656.4
VEL= 2.4
DEPTH= 7.6

*SECNO 4350.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.80 ELREA= 1283.30

4350.00	8.30	1280.80	.00	.00	1280.89	.09	.02	.00	1282.80
1600.	0.	1600.	0.	0.	656.	0.	59.	7.	1283.30
.45	.00	2.44	.00	.000	.018	.000	.000	1272.50	1.95
.000066	350.	350.	350.	0	0	0	.00	88.04	89.99

FLOW DISTRIBUTION FOR SECNO= 4350.00 CWSEL= 1280.80

STA= 2. 93.
PER Q= 100.0
AREA= 655.5
VEL= 2.4
DEPTH= 7.4

*SECNO 4800.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.40 ELREA= 1282.20

4800.00	8.13	1280.83	.00	.00	1280.92	.09	.03	.00	1282.40
1600.	0.	1600.	0.	0.	655.	0.	66.	8.	1282.20
.50	.00	2.44	.00	.000	.018	.000	.000	1272.70	1.62
.000068	450.	450.	450.	0	0	0	.00	91.21	92.83

FLOW DISTRIBUTION FOR SECNO= 4800.00 CWSEL= 1280.83

STA= 2. 95.
PER Q= 100.0
AREA= 655.0
VEL= 2.4
DEPTH= 7.2

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 5300.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.10 ELREA= 1283.10

5300.00	7.96	1280.86	.00	.00	1280.96	.10	.04	.00	1283.10
1600.	0.	1600.	0.	0.	622.	0.	73.	9.	1283.10
.55	.00	2.57	.00	.000	.018	.000	.000	1272.90	2.42
.000077	500.	500.	500.	0	0	0	.00	86.39	88.80

FLOW DISTRIBUTION FOR SECNO= 5300.00 CWSEL= 1280.86

STA= 2. 91.
PER Q= 100.0
AREA= 622.5
VEL= 2.6
DEPTH= 7.2

#SECNO 5850.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.80 ELREA= 1283.90

5850.00	7.80	1280.90	.00	.00	1281.00	.11	.04	.00	1283.80
1600.	0.	1600.	0.	0.	605.	0.	81.	11.	1283.90
.61	.00	2.64	.00	.000	.018	.000	.000	1273.10	2.99
.000083	550.	550.	550.	0	0	0	.00	85.23	88.22

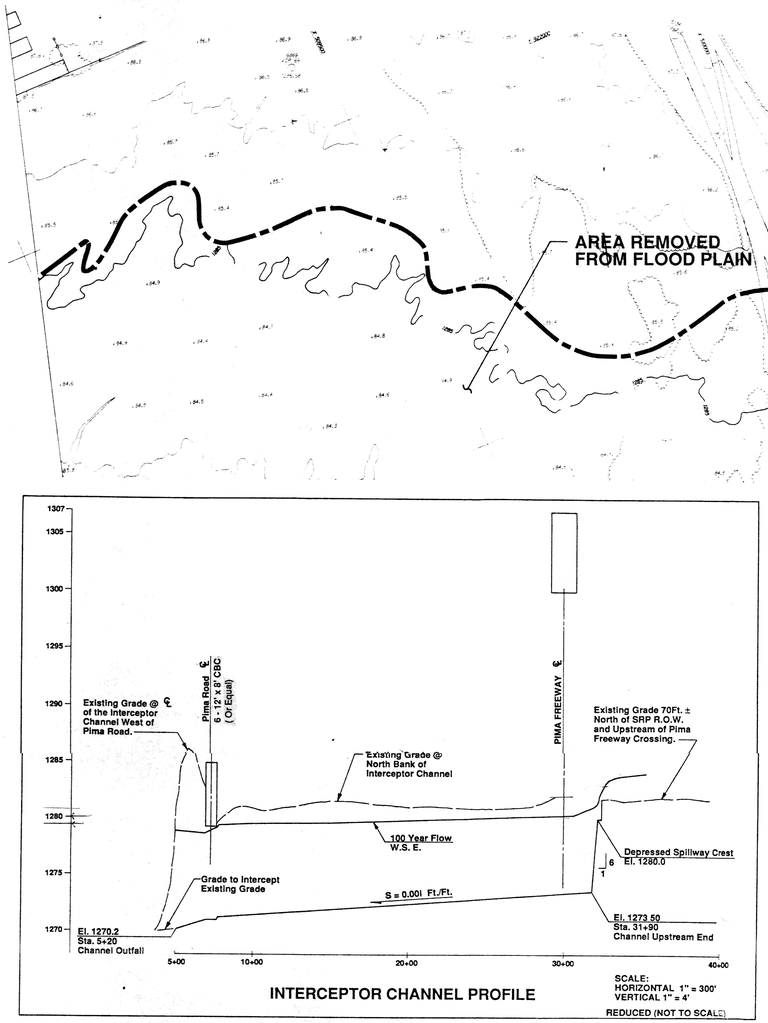
FLOW DISTRIBUTION FOR SECNO= 5850.00 CWSEL= 1280.90

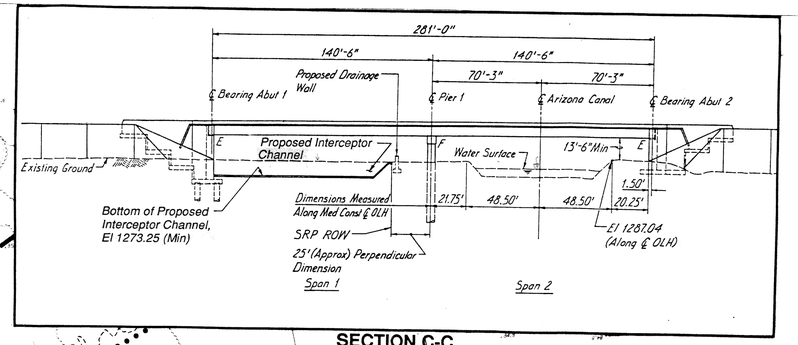
STA= 3. 91.
PER Q= 100.0
AREA= 605.1
VEL= 2.6
DEPTH= 7.1

#SECNO 5900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1284.00

5900.00	7.70	1280.90	.00	.00	1281.01	.11	.00	.00	1284.20
1600.	0.	1600.	0.	0.	598.	0.	82.	11.	1284.00
.62	.00	2.67	.00	.000	.018	.000	.000	1273.20	3.30
.000086	50.	50.	50.	0	0	0	.00	85.40	88.70





SECTION C-C
LOOKING UPSTREAM

AREA REMOVED FROM FLOOD PLAIN

EXISTING 100 YEAR FLOOD BOUNDARY

PROPOSED 100 YEAR FLOOD BOUNDARY

9600 9770 9800 9885 9900 10000 10600

11100 11200

165' 235'

ROW ROW

PIMA FREEWAY

Q_{100} = 1271cfs

EARTHEN CHANNEL

C C

105'

SPILLWAY

SRP ROW

DRAINAGE WALL
Q_{100} = 6250cfs

EXISTING 100 YEAR FLOOD BOUNDARY

SCALE: 1' =100'

8600 8700 8920 9140 9360 9460

SEE FIGURE 1

MATCH LINE

DRAINAGE EASEMENT

15'

100'

Q_{100} = 2850cfs

INTERCEPTOR CHANNEL

Q_{100} = 1750 cfs

Q_{100} = 1100cfs

SRP ROW

SPILLWAY

ARIZONA CANAL

Q_{100} = 5150cfs

CONCEPT STUDY

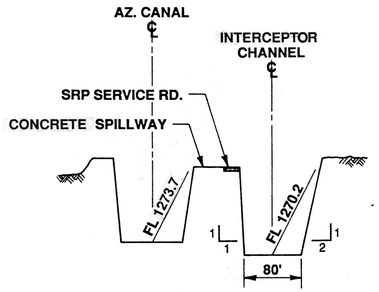
Arizona Canal Crossing Pima Freeway

INTERCEPTOR CHANNEL LAYOUT

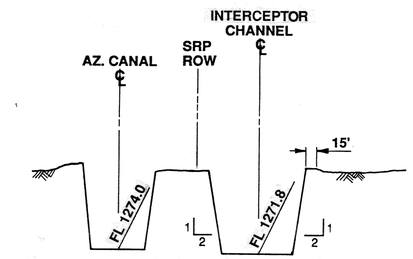
FIGURE 2

DeLeuw, Cather & Company

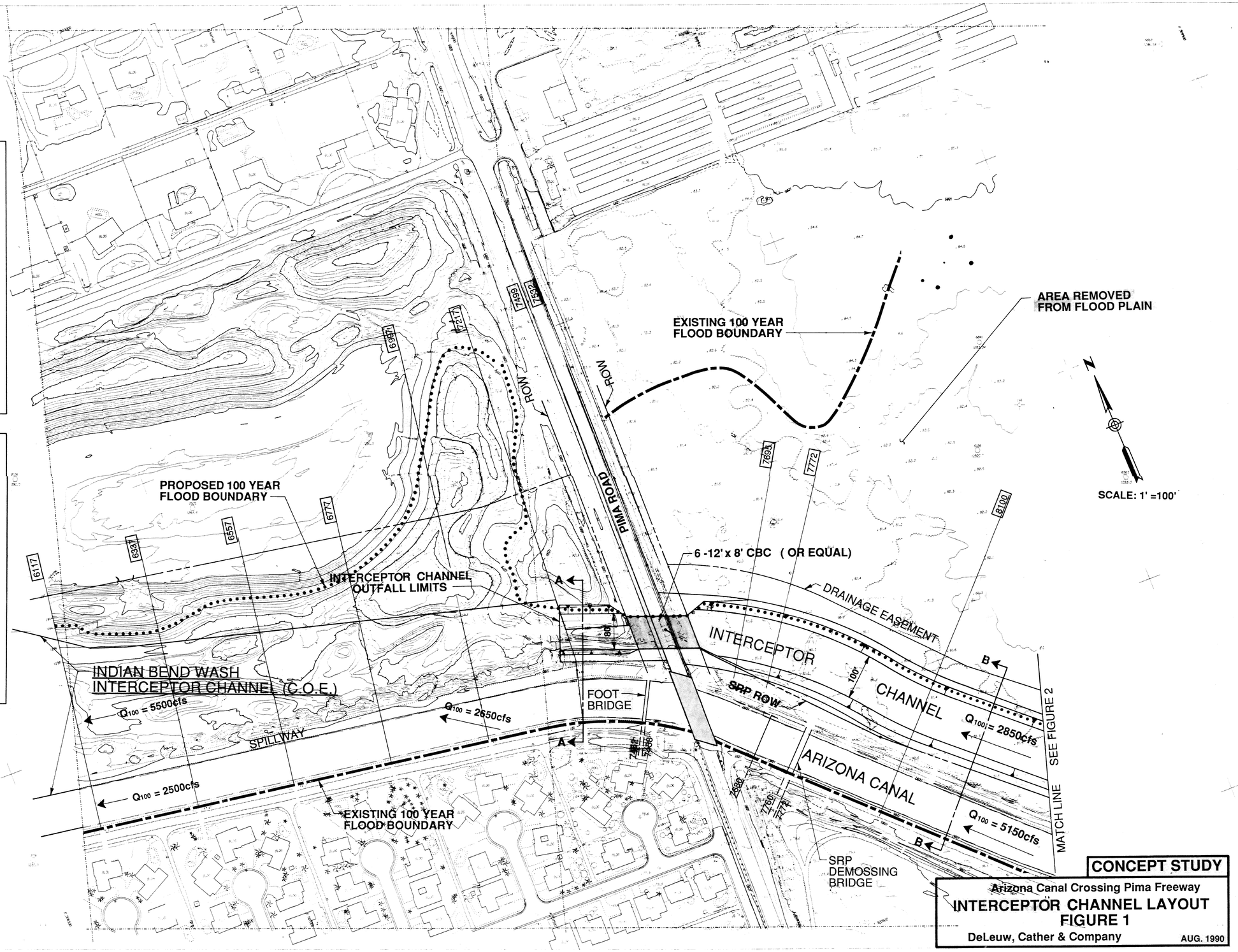
AUG. 1990



SECTION A-A
LOOKING DOWNSTREAM



SECTION B-B
LOOKING DOWNSTREAM



CONCEPT STUDY

Arizona Canal Crossing Pima Freeway

INTERCEPTOR CHANNEL LAYOUT
FIGURE 1

DeLeuw, Cather & Company AUG. 1990

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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= 5900.00 CWSEL= 1280.90

STA= 3. 92.
PER Q= 100.0
AREA= 598.3
VEL= 2.7
DEPTH= 7.0

*SECNO 6010.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1

6010.00	7.71	1280.91	.00	.00	1281.02	.11	.01	
1600.	0.	1600.	0.	0.	599.	0.	83.	
.63	.00	2.67	.00	.000	.018	.000	.000	1
.000086	110.	110.	110.	0	0	0	.00	

FLOW DISTRIBUTION FOR SECNO= 6010.00 CWSEL= 1280.91

STA= 3. 92.
PER Q= 100.0
AREA= 598.9
VEL= 2.7
DEPTH= 7.0

*SECNO 6117.000
3280 CROSS SECTION 6117.00 EXTENDED 1.42 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1280.50

6117.00	7.72	1280.92	.00	.00	1281.03	.11	.01	.00	1284.20
1600.	0.	1591.	9.	0.	600.	21.	85.	11.	1280.50
.64	.00	2.65	.41	.000	.018	.030	.000	1273.20	3.28
.000084	107.	107.	107.	0	0	0	.00	107.72	111.00

FLOW DISTRIBUTION FOR SECNO= 6117.00 CWSEL= 1280.92

model starts 591. → ↓ 6117 ↓ 1200 topo

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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= 5900.00 CWSEL= 1280.90

STA= 3. 92.
PER Q= 100.0
AREA= 598.3
VEL= 2.7
DEPTH= 7.0

*SECNO 6010.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1284.00

6010.00	7.71	1280.91	.00	.00	1281.02	.11	.01	.00	1284.20
1600.	0.	1600.	0.	0.	599.	0.	83.	11.	1284.00
.63	.00	2.67	.00	.000	.018	.000	.000	1273.20	3.29
.000086	110.	110.	110.	0	0	0	.00	85.42	88.71

FLOW DISTRIBUTION FOR SECNO= 6010.00 CWSEL= 1280.91

STA= 3. 92.
PER Q= 100.0
AREA= 598.9
VEL= 2.7
DEPTH= 7.0

*SECNO 6117.000
3280 CROSS SECTION 6117.00 EXTENDED 1.42 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1280.50

6117.00	7.72	1280.92	.00	.00	1281.03	.11	.01	.00	1284.20
1600.	0.	1591.	9.	0.	600.	21.	85.	11.	1280.50
.64	.00	2.65	.41	.000	.018	.030	.000	1273.20	3.28
.000084	107.	107.	107.	0	0	0	.00	107.72	111.00

FLOW DISTRIBUTION FOR SECNO= 6117.00 CWSEL= 1280.92

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

STA= 3. 88. 111.
PER Q= 99.5 .5
AREA= 599.7 20.8
VEL= 2.7 .4
DEPTH= 7.1 .9

#SECNO 6337.000
3280 CROSS SECTION 6337.00 EXTENDED 1.34 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1280.60

6337.00	7.64	1280.94	.00	.00	1281.05	.11	.02	.00	1284.20
1600.	0.	1592.	8.	0.	593.	19.	88.	12.	1280.60
.66	.00	2.68	.40	.000	.018	.030	.000	1273.30	3.29
.000087	220.	220.	220.	0	0	0	.00	107.71	111.00

FLOW DISTRIBUTION FOR SECNO= 6337.00 CWSEL= 1280.94

STA= 3. 88. 111.
PER Q= 99.5 .5
AREA= 593.2 19.0
VEL= 2.7 .4
DEPTH= 7.0 .8

#SECNO 6557.000
3280 CROSS SECTION 6557.00 EXTENDED 1.26 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.50 ELREA= 1280.70

6557.00	7.55	1280.95	.00	.00	1281.07	.11	.02	.00	1284.50
1600.	0.	1592.	8.	0.	586.	20.	91.	12.	1280.70
.68	.00	2.72	.38	.000	.018	.030	.000	1273.40	3.51
.000091	220.	220.	220.	0	0	0	.00	111.89	115.40

FLOW DISTRIBUTION FOR SECNO= 6557.00 CWSEL= 1280.95

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

STA= 4. 88. 115.
PER Q= 99.5 .5
AREA= 585.7 20.5
VEL= 2.7 .4
DEPTH= 6.9 .8

*SECNO 6777.000
3280 CROSS SECTION 6777.00 EXTENDED 1.17 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.50 ELREA= 1280.80

6777.00	7.47	1280.97	.00	.00	1281.09	.12	.02	.00	1284.50
1600.	0.	1594.	6.	0.	579.	17.	94.	13.	1280.80
.71	.00	2.75	.36	.000	.018	.030	.000	1273.50	3.53
.000094	220.	220.	220.	0	0	0	.00	109.97	113.50

FLOW DISTRIBUTION FOR SECNO= 6777.00 CWSEL= 1280.97

STA= 4. 88. 114.
PER Q= 99.6 .4
AREA= 579.0 17.0
VEL= 2.8 .4
DEPTH= 6.8 .7

*SECNO 6997.000
3280 CROSS SECTION 6997.00 EXTENDED 1.09 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1280.90

6997.00	7.39	1280.99	.00	.00	1281.11	.12	.02	.00	1285.00
1600.	0.	1595.	5.	0.	572.	15.	97.	13.	1280.90
.73	.00	2.79	.34	.000	.018	.030	.000	1273.60	3.97
.000098	220.	220.	220.	0	0	0	.00	109.53	113.50

FLOW DISTRIBUTION FOR SECNO= 6997.00 CWSEL= 1280.99

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

STA= 4. 89. 114.
PER Q= 99.7 .3
AREA= 571.9 14.7
VEL= 2.8 .3
DEPTH= 6.8 .6

*SECNO 7217.000
3280 CROSS SECTION 7217.00 EXTENDED 1.01 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1281.00

7217.00	7.31	1281.01	.00	.00	1281.13	.12	.02	.00	1285.00
1600.	0.	1596.	4.	0.	565.	13.	100.	14.	1281.00
.75	.00	2.82	.31	.000	.018	.030	.000	1273.70	3.99
.000102	220.	220.	220.	0	0	0	.00	109.81	113.80

FLOW DISTRIBUTION FOR SECNO= 7217.00 CWSEL= 1281.01

STA= 4. 89. 114.
PER Q= 99.7 .3
AREA= 565.3 12.9
VEL= 2.8 .3
DEPTH= 6.7 .5

*SECNO 7329.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.00

7329.00	7.32	1281.02	.00	.00	1281.15	.12	.01	.00	1285.00
1600.	0.	1600.	0.	0.	568.	0.	102.	14.	1284.00
.76	.00	2.82	.00	.000	.018	.000	.000	1273.70	3.98
.000101	112.	112.	112.	0	0	0	.00	85.14	89.12

FLOW DISTRIBUTION FOR SECNO= 7329.00 CWSEL= 1281.02

STA= 4. 92.
PER Q= 100.0
AREA= 568.0
VEL= 2.8
DEPTH= 6.7

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 7431.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7431.00	7.34	1281.04	.00	.00	1281.16	.12	.02	.00	1285.00
1600.	0.	1600.	0.	0.	568.	0.	104.	14.	1284.70
.78	.00	2.82	.00	.000	.018	.000	.000	1273.70	3.96
.000101	180.	180.	180.	0	0	0	.00	84.68	88.64

FLOW DISTRIBUTION FOR SECNO= 7431.00 CWSEL= 1281.04

STA= 4. 92.
PER Q= 100.0
AREA= 567.8
VEL= 2.8
DEPTH= 6.7

#SECNO 7452.000

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.90 MAX ELLC= 1283.90

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7452.00	7.36	1281.06	.00	.00	1281.18	.12	.02	.00	1285.00
1600.	0.	1600.	0.	0.	567.	0.	106.	15.	1284.70
.79	.00	2.82	.00	.000	.018	.000	.000	1273.70	4.12
.000101	161.	161.	161.	0	0	0	.00	84.54	88.66

FLOW DISTRIBUTION FOR SECNO= 7452.00 CWSEL= 1281.06

STA= 4. 92.
PER Q= 100.0
AREA= 566.6
VEL= 2.8
DEPTH= 6.7

#SECNO 7458.000

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

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.90 MAX ELLC= 1283.90

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7458.00	7.36	1281.06	.00	.00	1281.18	.12	.00	.00	1285.00
1600.	0.	1600.	0.	0.	567.	0.	106.	15.	1284.70
.79	.00	2.82	.00	.000	.018	.000	.000	1273.70	4.12
.000101	6.	6.	6.	0	0	0	.00	84.54	88.66

FLOW DISTRIBUTION FOR SECNO= 7458.00 CWSEL= 1281.06

STA= 4. 92.
PER Q= 100.0
AREA= 566.7
VEL= 2.8
DEPTH= 6.7

CCHV= .300 CEHV= .500
*SECNO 7499.000

3265 DIVIDED FLOW

3280 CROSS SECTION 7499.00 EXTENDED 2.07 FEET

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1286.00 MAX ELLC= 1284.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7499.00	7.26	1281.06	.00	.00	1281.20	.14	.01	.01	1285.00
1600.	0.	1600.	0.	0.	542.	0.	107.	15.	1285.00
.80	.00	2.95	.00	.000	.018	.000	.000	1273.80	3.93
.000165	80.	80.	80.	0	0	0	.00	81.71	88.24

FLOW DISTRIBUTION FOR SECNO= 7499.00 CWSEL= 1281.06

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	GLOB	GCH	GROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 4. 92.
PER Q= 100.0
AREA= 542.0
VEL= 3.0
DEPTH= 6.6

#SECNO 7532.000

3265 DIVIDED FLOW

3280 CROSS SECTION 7532.00 EXTENDED 2.07 FEET

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1286.00 MAX ELLC= 1284.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7532.00	7.27	1281.07	.00	.00	1281.20	.14	.01	.00	1285.00
1600.	0.	1600.	0.	0.	542.	0.	107.	15.	1285.00
.81	.00	2.95	.00	.000	.018	.000	.000	1273.80	3.93
.000165	33.	33.	33.	0	0	0	.00	81.71	88.24

FLOW DISTRIBUTION FOR SECNO= 7532.00 CWSEL= 1281.07

STA= 4. 92.
PER Q= 100.0
AREA= 542.1
VEL= 3.0
DEPTH= 6.6

CCHV= .100 CEHV= .300
#SECNO 7680.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7680.00	7.19	1281.09	.00	.00	1281.22	.13	.02	.00	1285.00
1600.	0.	1600.	0.	0.	555.	0.	109.	15.	1285.00
.82	.00	2.88	.00	.000	.018	.000	.000	1273.90	3.94
.000108	148.	148.	148.	0	0	0	.00	84.38	88.33

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

FLOW DISTRIBUTION FOR SECNO= 7680.00 CWSEL= 1281.09

STA= 4. 92.
PER Q= 100.0
AREA= 555.1
VEL= 2.9
DEPTH= 6.6

CCHV= .300 CEHV= .500
#SECNO 7760.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7760.00	7.10	1281.10	.00	.00	1281.23	.13	.01	.00	1285.00
1600.	0.	1600.	0.	0.	548.	0.	110.	15.	1285.00
.83	.00	2.92	.00	.000	.018	.000	.000	1274.00	3.90
.000113	80.	80.	80.	0	0	0	.00	84.21	88.10

FLOW DISTRIBUTION FOR SECNO= 7760.00 CWSEL= 1281.10

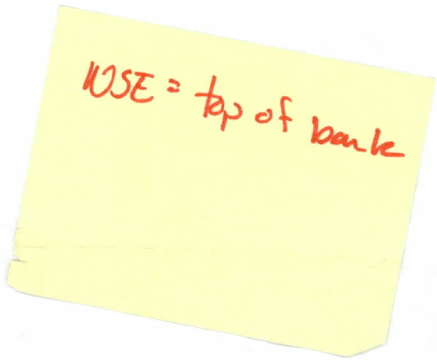
STA= 4. 92.
PER Q= 100.0
AREA= 547.8
VEL= 2.9
DEPTH= 6.5

#SECNO 7772.000

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 1284.70 MAX ELLC= 1284.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7772.00	7.10	1281.10	.00	.00	1281.24	.13	.00	.00	1285.00
1600.	0.	1600.	0.	0.	547.	0.	111.	15.	1284.70
.83	.00	2.93	.00	.000	.018	.000	.000	1274.00	4.17
.000113	12.	12.	12.	0	0	0	.00	83.93	88.10



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

FLOW DISTRIBUTION FOR SECNO= 7680.00 CWSEL= 1281.09

STA= 4. 92.
PER Q= 100.0
AREA= 555.1
VEL= 2.9
DEPTH= 6.6

CCHV= .300 CEHV= .500
#SECNO 7760.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7760.00	7.10	1281.10	.00	.00	1281.23	.13	.01	.00	1285.00
1600.	0.	1600.	0.	0.	548.	0.	110.	15.	1285.00
.83	.00	2.92	.00	.000	.018	.000	.000	1274.00	3.90
.000113	80.	80.	80.	0	0	0	.00	84.21	88.10

FLOW DISTRIBUTION FOR SECNO= 7760.00 CWSEL= 1281.10

STA= 4. 92.
PER Q= 100.0
AREA= 547.8
VEL= 2.9
DEPTH= 6.5

#SECNO 7772.000

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 1284.70 MAX ELLC= 1284.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7772.00	7.10	1281.10	.00	.00	1281.24	.13	.00	.00	1285.00
1600.	0.	1600.	0.	0.	547.	0.	111.	15.	1284.70
.83	.00	2.93	.00	.000	.018	.000	.000	1274.00	4.17
.000113	12.	12.	12.	0	0	0	.00	83.93	88.10

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

FLOW DISTRIBUTION FOR SECNO= 7772.00 CWSEL= 1281.10

STA= 4. 92.
PER Q= 100.0
AREA= 546.6
VEL= 2.9
DEPTH= 6.5

CCHV= .100 CEHV= .300
*SECNO 8100.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.60 ELREA= 1285.00

8100.00	7.04	1281.14	.00	.00	1281.27	.14	.04	.00	1285.60
1600.	0.	1600.	0.	0.	543.	0.	115.	16.	1285.00
.86	.00	2.95	.00	.000	.018	.000	.000	1274.10	4.46
.000116	328.	328.	328.	0	0	0	.00	84.14	88.60

FLOW DISTRIBUTION FOR SECNO= 8100.00 CWSEL= 1281.14

STA= 4. 93.
PER Q= 100.0
AREA= 542.5
VEL= 2.9
DEPTH= 6.4

*SECNO 8600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.70 ELREA= 1285.20

8600.00	7.00	1281.20	.00	.00	1281.33	.14	.06	.00	1285.70
1600.	0.	1600.	0.	0.	539.	0.	121.	17.	1285.20
.91	.00	2.97	.00	.000	.018	.000	.000	1274.20	4.50
.000119	500.	500.	500.	0	0	0	.00	83.99	88.50

FLOW DISTRIBUTION FOR SECNO= 8600.00 CWSEL= 1281.20

STA= 5. 93.
PER Q= 100.0
AREA= 538.6
VEL= 3.0
DEPTH= 6.4

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 8700.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.80 ELREA= 1283.80

8700.00	6.91	1281.21	.00	.00	1281.35	.14	.01	.00	1285.80
1600.	0.	1600.	0.	0.	531.	0.	122.	17.	1283.80
.91	.00	3.01	.00	.000	.018	.000	.000	1274.30	4.59
.000124	100.	100.	100.	0	0	0	.00	83.81	88.41

FLOW DISTRIBUTION FOR SECNO= 8700.00 CWSEL= 1281.21

STA= 5. 91.
PER Q= 100.0
AREA= 531.2
VEL= 3.0
DEPTH= 6.3

#SECNO 8920.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.00 ELREA= 1283.90

8920.00	6.83	1281.23	.00	.00	1281.37	.14	.03	.00	1286.00
1600.	0.	1600.	0.	0.	525.	0.	125.	18.	1283.90
.93	.00	3.05	.00	.000	.018	.000	.000	1274.40	4.73
.000129	220.	220.	220.	0	0	0	.00	83.60	88.33

FLOW DISTRIBUTION FOR SECNO= 8920.00 CWSEL= 1281.23

STA= 5. 91.
PER Q= 100.0
AREA= 524.7
VEL= 3.0
DEPTH= 6.3

#SECNO 9140.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.00 ELREA= 1284.00

9140.00	6.76	1281.26	.00	.00	1281.40	.15	.03	.00	1286.00
1600.	0.	1600.	0.	0.	521.	0.	127.	18.	1284.00
.95	.00	3.07	.00	.000	.018	.000	.000	1274.50	5.15
.000132	220.	220.	220.	0	0	0	.00	84.10	89.26

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

FLOW DISTRIBUTION FOR SECNO= 12900.00 CWSEL= 1281.84

STA= 6. 90.
PER Q= 100.0
AREA= 451.5
VEL= 3.5
DEPTH= 5.5

1490 NH CARD USED
*SECNO 13200.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1284.00

13200.00	5.90	1281.90	.00	.00	1282.10	.20	.06	.00	1287.00
1600.	0.	1600.	0.	0.	448.	0.	172.	26.	1284.00
1.29	.00	3.57	.00	.000	.018	.000	.000	1276.00	5.10
.000209	300.	300.	300.	0	0	0	.00	81.81	86.90

FLOW DISTRIBUTION FOR SECNO= 13200.00 CWSEL= 1281.90

STA= 5. 89.
PER Q= 100.0
AREA= 448.1
VEL= 3.6
DEPTH= 5.5

1490 NH CARD USED
*SECNO 13600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1284.20

13600.00	5.78	1281.98	.00	.00	1282.19	.21	.09	.00	1287.00
1600.	0.	1600.	0.	0.	439.	0.	176.	27.	1284.20
1.32	.00	3.65	.00	.000	.018	.000	.000	1276.20	5.11
.000223	400.	400.	400.	0	0	0	.00	81.68	86.79

FLOW DISTRIBUTION FOR SECNO= 13600.00 CWSEL= 1281.98

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

STA= 5. 89.
PER Q= 100.0
AREA= 438.9
VEL= 3.6
DEPTH= 5.4

1490 NH CARD USED
#SECNO 13700.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1287.20

13700.00	5.81	1282.01	.00	.00	1282.21	.21	.02	.00	1287.10
1600.	0.	1600.	0.	0.	440.	0.	177.	27.	1287.20
1.33	.00	3.63	.00	.000	.018	.000	.000	1276.20	5.14
.000221	100.	100.	100.	0	0	0	.00	81.67	86.81

FLOW DISTRIBUTION FOR SECNO= 13700.00 CWSEL= 1282.01

STA= 5. 92.
PER Q= 100.0
AREA= 440.3
VEL= 3.6
DEPTH= 5.4

#SECNO 13800.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1287.20

13800.00	5.83	1282.03	.00	.00	1282.24	.20	.02	.00	1287.10
1600.	0.	1600.	0.	0.	442.	0.	178.	27.	1287.20
1.34	.00	3.62	.00	.000	.018	.000	.000	1276.20	5.12
.000218	100.	100.	100.	0	0	0	.00	81.71	86.83

FLOW DISTRIBUTION FOR SECNO= 13800.00 CWSEL= 1282.03

STA= 5. 92.
PER Q= 100.0
AREA= 442.3
VEL= 3.6
DEPTH= 5.4

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T1      ARIZONA CANAL AND SPILLWAYS
T2      CORPS OF ENGINEERS DATUM
T3      ADOT INTERCEPTOR CHANNEL CONCEPT

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        0         3                                                           1280.5

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       15         0        -1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

#PROF 2

CCHV= .100 CEHV= .300
#SECNO 591.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

591.20	9.10	1280.50	.00	1280.50	1280.87	.37	.00	.00	1281.40
2500.	0.	2500.	0.	0.	510.	0.	0.	0.	1281.40
.00	.00	4.91	.00	.000	.018	.000	.000	1271.40	20.00
.000270	0.	0.	0.	0	0	0	.00	56.00	76.00

#SECNO 605.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

605.20	9.10	1280.50	.00	.00	1280.88	.37	.00	.00	1281.40
2500.	0.	2500.	0.	0.	510.	0.	0.	0.	1281.40
.00	.00	4.90	.00	.000	.018	.000	.000	1271.40	20.00
.000270	14.	14.	14.	0	0	0	.00	56.00	76.00

#SECNO 631.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

631.20	9.32	1280.72	.00	.00	1280.90	.18	.00	.02	1281.40
2500.	0.	2500.	0.	0.	740.	0.	1.	0.	1281.40
.00	.00	3.38	.00	.000	.018	.000	.000	1271.40	.68
.000111	26.	26.	26.	2	0	0	.00	88.65	89.32

#SECNO 1000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

1000.00	9.26	1280.76	.00	.00	1280.94	.18	.04	.00	1281.40
2500.	0.	2500.	0.	0.	735.	0.	7.	1.	1281.40
.03	.00	3.40	.00	.000	.018	.000	.000	1271.50	.64
.000113	369.	369.	369.	2	0	0	.00	88.71	89.36

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 1200.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

1200.00	9.29	1280.79	.00	.00	1280.97	.18	.02	.00	1281.40
2500.	0.	2500.	0.	0.	737.	0.	10.	1.	1281.40
.05	.00	3.39	.00	.000	.018	.000	.000	1271.50	.62
.000112	200.	200.	200.	0	0	0	.00	88.76	89.38

#SECNO 1600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.70 ELREA= 1281.20

1600.00	9.23	1280.83	.00	.00	1281.01	.18	.05	.00	1281.70
2500.	0.	2500.	0.	0.	733.	0.	17.	2.	1281.20
.08	.00	3.41	.00	.000	.018	.000	.000	1271.60	.86
.000114	400.	400.	400.	0	0	0	.00	88.76	89.62

CCHV= .300 CEHV= .500
#SECNO 1895.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.30 MAX ELLC= 1283.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1283.30

1895.00	9.16	1280.86	.00	.00	1281.06	.20	.04	.01	1283.20
2500.	0.	2500.	0.	0.	696.	0.	22.	3.	1283.30
.10	.00	3.59	.00	.000	.018	.000	.000	1271.70	9.02
.000162	295.	295.	295.	0	0	0	.00	81.90	92.23

#SECNO 1985.000

3265 DIVIDED FLOW

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

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.30 MAX ELLC= 1283.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1283.30

1985.00	9.18	1280.88	.00	.00	1281.08	.20	.01	.00	1283.20
2500.	0.	2500.	0.	0.	697.	0.	23.	3.	1283.30
.11	.00	3.59	.00	.000	.018	.000	.000	1271.70	9.02
.000162	90.	90.	90.	0	0	0	.00	81.91	92.23

CCHV= .100 CEHV= .300
*SECNO 2500.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.30 ELREA= 1281.60

2500.00	9.06	1280.96	.00	.00	1281.15	.19	.07	.00	1283.30
2500.	0.	2500.	0.	0.	716.	0.	32.	4.	1281.60
.15	.00	3.49	.00	.000	.018	.000	.000	1271.90	2.34
.000122	515.	515.	515.	0	0	0	.00	88.03	90.37

*SECNO 2900.000
3280 CROSS SECTION 2900.00 EXTENDED .01 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1281.00

2900.00	9.00	1281.00	.00	.00	1281.20	.20	.05	.00	1282.90
2500.	0.	2500.	0.	0.	704.	0.	38.	5.	1281.00
.18	.00	3.55	.00	.000	.018	.000	.000	1272.00	1.89
.000127	400.	400.	400.	1	0	0	.00	87.11	89.00

*SECNO 3155.100

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1281.60

3155.10	8.94	1281.04	.00	.00	1281.23	.19	.03	.00	1282.90
2500.	0.	2500.	0.	0.	709.	0.	42.	5.	1281.60
.20	.00	3.53	.00	.000	.018	.000	.000	1272.10	1.73
.000127	255.	255.	255.	0	0	0	.00	88.62	90.35

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 3365.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1281.60

3365.00	8.87	1281.07	.00	.00	1281.26	.19	.03	.00	1282.90
2500.	0.	2500.	0.	0.	707.	0.	46.	6.	1281.60
.22	.00	3.54	.00	.000	.018	.000	.000	1272.20	1.88
.000129	210.	210.	210.	0	0	0	.00	89.49	91.38

#SECNO 4000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.10 ELREA= 1282.70

4000.00	8.74	1281.14	.00	.00	1281.35	.20	.08	.00	1283.10
2500.	0.	2500.	0.	0.	689.	0.	56.	7.	1282.70
.27	.00	3.63	.00	.000	.018	.000	.000	1272.40	2.01
.000137	635.	635.	635.	0	0	0	.00	87.49	89.49

#SECNO 4350.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.80 ELREA= 1283.30

4350.00	8.69	1281.19	.00	.00	1281.40	.20	.05	.00	1282.80
2500.	0.	2500.	0.	0.	690.	0.	61.	8.	1283.30
.30	.00	3.62	.00	.000	.018	.000	.000	1272.50	1.56
.000138	350.	350.	350.	0	0	0	.00	88.90	90.46

#SECNO 4800.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.40 ELREA= 1282.20

4800.00	8.56	1281.26	.00	.00	1281.46	.20	.06	.00	1282.40
2500.	0.	2500.	0.	0.	694.	0.	68.	8.	1282.20
.33	.00	3.60	.00	.000	.018	.000	.000	1272.70	1.18
.000140	450.	450.	450.	0	0	0	.00	92.33	93.51

#SECNO 5300.000

Extended cross section??

```
   SECNO    DEPTH    CWS                                    LOSS   BANK ELEV
   Q        QLOB     QCH                                    WA   LEFT/RIGHT
   TIME     VLOB     VCH                                    LMIN      SSTA
   SLOPE    XLOBL    XLCH                                   OPWID     ENDST


3495 OVERBANK AREA ASSUMED                                        3.10

  5300.00     8.42  1281.3                                      .01  1283.10
    2500.        0.    2500.                                    10.   1283.10
      .37      .00     3.77                                     .90     1.91
  .000155     500.     500.                                     35    89.26


#SECNO 5850.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1283.80 ELREA=      1283.90

  5850.00     8.30  1281.40      .00      .00  1281.63      .23      .09      .00  1283.80
    2500.        0.    2500.        0.       0.     648.       0.      85.      11.   1283.90
      .41      .00     3.86      .00     .000     .018     .000     .000  1273.10     2.47
  .000164     550.     550.     550.        0        0        0      .00   86.22    88.68


#SECNO 5900.000
3280 CROSS SECTION   5900.00 EXTENDED       .01 FEET


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1284.20 ELREA=      1284.00

  5900.00     8.20  1281.40      .00      .00  1281.64      .24      .01      .00  1284.20
    2500.        0.    2500.        0.       0.     642.       0.      85.      11.   1284.00
      .41      .00     3.90      .00     .000     .018     .000     .000  1273.20     2.79
  .000170      50.      50.      50.        0        0        0      .00   86.41    89.21


#SECNO 6010.000
3280 CROSS SECTION   6010.00 EXTENDED       .02 FEET


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1284.20 ELREA=      1284.00

  6010.00     8.22  1281.42      .00      .00  1281.66      .23      .02      .00  1284.20
    2500.        0.    2500.        0.       0.     643.       0.      87.      11.   1284.00
      .42      .00     3.89      .00     .000     .018     .000     .000  1273.20     2.78
  .000169     110.     110.     110.        0        0        0      .00   86.44    89.22
```

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.10 ELREA= 1283.10

5300.00	8.42	1281.32	.00	.00	1281.54	.22	.07	.01	1283.10
2500.	0.	2500.	0.	0.	663.	0.	76.	10.	1283.10
.37	.00	3.77	.00	.000	.018	.000	.000	1272.90	1.91
.000155	500.	500.	500.	0	0	0	.00	87.35	89.26

#SECNO 5850.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.80 ELREA= 1283.90

5850.00	8.30	1281.40	.00	.00	1281.63	.23	.09	.00	1283.80
2500.	0.	2500.	0.	0.	648.	0.	85.	11.	1283.90
.41	.00	3.86	.00	.000	.018	.000	.000	1273.10	2.47
.000164	550.	550.	550.	0	0	0	.00	86.22	88.68

#SECNO 5900.000
3280 CROSS SECTION 5900.00 EXTENDED .01 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1284.00

5900.00	8.20	1281.40	.00	.00	1281.64	.24	.01	.00	1284.20
2500.	0.	2500.	0.	0.	642.	0.	85.	11.	1284.00
.41	.00	3.90	.00	.000	.018	.000	.000	1273.20	2.79
.000170	50.	50.	50.	0	0	0	.00	86.41	89.21

#SECNO 6010.000
3280 CROSS SECTION 6010.00 EXTENDED .02 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1284.00

6010.00	8.22	1281.42	.00	.00	1281.66	.23	.02	.00	1284.20
2500.	0.	2500.	0.	0.	643.	0.	87.	11.	1284.00
.42	.00	3.89	.00	.000	.018	.000	.000	1273.20	2.78
.000169	110.	110.	110.	0	0	0	.00	86.44	89.22

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 6117.000
3280 CROSS SECTION 6117.00 EXTENDED 1.94 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1280.50

6117.00	8.25	1281.45	.00	.00	1281.68	.23	.02	.00	1284.20
2500.	0.	2475.	25.	0.	644.	33.	89.	11.	1280.50
.43	.00	3.84	.76	.000	.018	.030	.000	1273.20	2.76
.000161	107.	107.	107.	0	0	0	.00	108.24	111.00

#SECNO 6337.000
3280 CROSS SECTION 6337.00 EXTENDED 1.77 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1280.60

6337.00	8.07	1281.37	.00	.00	1281.78	.42	.05	.06	1284.20
3303.	0.	3275.	28.	0.	630.	29.	92.	12.	1280.60
.44	.00	5.20	.96	.000	.018	.030	.000	1273.30	2.86
.000304	220.	220.	220.	2	0	0	.00	108.14	111.00

#SECNO 6557.000
3280 CROSS SECTION 6557.00 EXTENDED 1.61 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.50 ELREA= 1280.70

6557.00	7.91	1281.31	.00	.00	1281.93	.62	.08	.06	1284.50
3930.	0.	3897.	33.	0.	616.	30.	95.	12.	1280.70
.45	.00	6.33	1.10	.000	.018	.030	.000	1273.40	3.16
.000462	220.	220.	220.	2	0	0	.00	112.24	115.40

#SECNO 6777.000
3280 CROSS SECTION 6777.00 EXTENDED 1.49 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.50 ELREA= 1280.80

6777.00	7.79	1281.29	.00	.00	1282.10	.81	.12	.06	1284.50
4425.	0.	4396.	29.	0.	606.	25.	98.	13.	1280.80
.46	.00	7.25	1.18	.000	.018	.030	.000	1273.50	3.21
.000619	220.	220.	220.	2	0	0	.00	110.29	113.50

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 6997.000
3280 CROSS SECTION 6997.00 EXTENDED 1.42 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1280.90

6997.00	7.72	1281.32	.00	.00	1282.31	.99	.15	.05	1285.00
4832.	0.	4804.	28.	0.	599.	23.	102.	13.	1280.90
.46	.00	8.01	1.25	.000	.018	.030	.000	1273.60	3.65
.000765	220.	220.	220.	2	0	0	.00	109.85	113.50

#SECNO 7217.000
3280 CROSS SECTION 7217.00 EXTENDED 1.40 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1281.00

7217.00	7.70	1281.40	.00	.00	1282.53	1.13	.18	.04	1285.00
5150.	0.	5120.	30.	0.	598.	23.	105.	14.	1281.00
.47	.00	8.56	1.32	.000	.018	.030	.000	1273.70	3.60
.000876	220.	220.	220.	2	0	0	.00	110.20	113.80

#SECNO 7329.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.00

7329.00	7.83	1281.53	.00	.00	1282.63	1.10	.10	.00	1285.00
5150.	0.	5150.	0.	0.	611.	0.	106.	14.	1284.00
.48	.00	8.43	.00	.000	.018	.000	.000	1273.70	3.47
.000840	112.	112.	112.	2	0	0	.00	86.19	89.66

#SECNO 7431.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7431.00	8.03	1281.73	.00	.00	1282.78	1.05	.15	.01	1285.00
5150.	0.	5150.	0.	0.	627.	0.	109.	15.	1284.70
.48	.00	8.22	.00	.000	.018	.000	.000	1273.70	3.27
.000775	180.	180.	180.	2	0	0	.00	86.06	89.33

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

#SECNO 7452.000

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.90 MAX ELLC= 1283.90

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7452.00	8.19	1281.89	.00	.00	1282.91	1.01	.12	.00	1285.00
5150.	0.	5150.	0.	0.	638.	0.	111.	15.	1284.70
.49	.00	8.07	.00	.000	.018	.000	.000	1273.70	3.24
.000732	161.	161.	161.	2	0	0	.00	86.25	89.49

#SECNO 7458.000

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.90 MAX ELLC= 1283.90

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7458.00	8.20	1281.90	.00	.00	1282.91	1.01	.00	.00	1285.00
5150.	0.	5150.	0.	0.	638.	0.	111.	15.	1284.70
.49	.00	8.07	.00	.000	.018	.000	.000	1273.70	3.24
.000731	6.	6.	6.	0	0	0	.00	86.26	89.50

CCHV= .300 CEHV= .500
#SECNO 7499.000

3265 DIVIDED FLOW

3280 CROSS SECTION 7499.00 EXTENDED 2.93 FEET

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1286.00 MAX ELLC= 1284.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7499.00	8.13	1281.93	.00	.00	1283.03	1.09	.07	.04	1285.00
5150.	0.	5150.	0.	0.	614.	0.	112.	15.	1285.00
.49	.00	8.39	.00	.000	.018	.000	.000	1273.80	3.07
.001210	80.	80.	80.	2	0	0	.00	83.40	89.07

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

#SECNO 7532.000

3265 DIVIDED FLOW

3280 CROSS SECTION 7532.00 EXTENDED 3.00 FEET

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1286.00 MAX ELLC= 1284.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7532.00	8.20	1282.00	.00	.00	1283.07	1.08	.04	.01	1285.00
5150.	0.	5150.	0.	0.	619.	0.	113.	15.	1285.00
.49	.00	8.32	.00	.000	.018	.000	.000	1273.80	3.00
.001181	33.	33.	33.	2	0	0	.00	83.53	89.13

CCHV= .100 CEHV= .300
#SECNO 7680.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7680.00	8.35	1282.25	.00	.00	1283.21	.96	.13	.01	1285.00
5150.	0.	5150.	0.	0.	654.	0.	115.	15.	1285.00
.50	.00	7.87	.00	.000	.018	.000	.000	1273.90	2.77
.000680	148.	148.	148.	2	0	0	.00	86.70	89.48

CCHV= .300 CEHV= .500
#SECNO 7760.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7760.00	8.30	1282.30	.00	.00	1283.27	.98	.05	.01	1285.00
5150.	0.	5150.	0.	0.	650.	0.	116.	16.	1285.00
.50	.00	7.93	.00	.000	.018	.000	.000	1274.00	2.70
.000695	80.	80.	80.	2	0	0	.00	86.60	89.30

#SECNO 7772.000

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

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 1284.70 MAX ELLC= 1284.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7772.00	8.22	1282.22	.00	.00	1283.38	1.16	.01	.09	1285.00
5150.	0.	5150.	0.	0.	597.	0.	116.	16.	1284.70
.50	.00	8.62	.00	.000	.018	.000	.000	1274.00	3.03
.002151	12.	12.	12.	2	0	0	-44.74	86.20	89.22

CCHV= .100 CEHV= .300
#SECNO 8100.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.60 ELREA= 1285.00

8100.00	8.77	1282.87	.00	.00	1283.73	.86	.33	.03	1285.60
5150.	0.	5150.	0.	0.	692.	0.	121.	16.	1285.00
.51	.00	7.45	.00	.000	.018	.000	.000	1274.10	2.73
.000576	328.	328.	328.	2	0	0	.00	87.63	90.35

#SECNO 8600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.70 ELREA= 1285.20

8600.00	9.00	1283.20	.00	.00	1284.02	.81	.28	.00	1285.70
5150.	0.	5150.	0.	0.	711.	0.	129.	17.	1285.20
.53	.00	7.24	.00	.000	.018	.000	.000	1274.20	2.50
.000528	500.	500.	500.	2	0	0	.00	88.01	90.50

#SECNO 8700.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.80 ELREA= 1283.80

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
8700.00	8.94	1283.24	.00	.00	1284.07	.83	.05	.00	1285.80
5164.	0.	5164.	0.	0.	707.	0.	131.	17.	1283.80
.53	.00	7.31	.00	.000	.018	.000	.000	1274.30	2.55
.000542	100.	100.	100.	1	0	0	.00	87.90	90.45

#SECNO 8920.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.00 ELREA= 1283.90

8920.00	8.89	1283.29	.00	.00	1284.24	.94	.13	.03	1286.00
5465.	0.	5465.	0.	0.	701.	0.	135.	18.	1283.90
.54	.00	7.79	.00	.000	.018	.000	.000	1274.40	2.68
.000621	220.	220.	220.	2	0	0	.00	87.71	90.39

#SECNO 9140.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.00 ELREA= 1284.00

9140.00	8.85	1283.35	.00	.00	1284.42	1.07	.15	.04	1286.00
5813.	0.	5813.	0.	0.	701.	0.	138.	18.	1284.00
.55	.00	8.29	.00	.000	.018	.000	.000	1274.50	2.88
.000707	220.	220.	220.	2	0	0	.00	88.47	91.35

#SECNO 9360.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1284.00

9360.00	8.80	1283.40	.00	.00	1284.64	1.24	.17	.05	1287.00
6210.	0.	6210.	0.	0.	694.	0.	142.	19.	1284.00
.56	.00	8.95	.00	.000	.018	.000	.000	1274.60	3.63
.000829	220.	220.	220.	2	0	0	.00	87.76	91.39

#SECNO 9460.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1284.00

9460.00	8.89	1283.49	.00	.00	1284.72	1.23	.08	.00	1287.00
6250.	0.	6250.	0.	0.	701.	0.	143.	19.	1284.00
.56	.00	8.91	.00	.000	.018	.000	.000	1274.60	3.55
.000814	100.	100.	100.	1	0	0	.00	87.93	91.47

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 9600.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1282.50

9600.00	10.10	1284.70	.00	.00	1284.87	.17	.04	.11	1287.10
6250.	0.	3502.	2748.	0.	807.	2301.	149.	21.	1282.50
.57	.00	4.34	1.19	.000	.018	.030	.000	1274.60	2.41
.000161	140.	140.	140.	3	0	0	.00	1206.12	1208.53

#SECNO 9770.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1282.50

9770.00	10.13	1284.73	.00	.00	1284.90	.17	.03	.00	1287.10
6250.	0.	3473.	2777.	0.	810.	2344.	162.	26.	1282.50
.59	.00	4.29	1.18	.000	.018	.030	.000	1274.60	2.37
.000156	170.	170.	170.	2	0	0	.00	1213.97	1216.34

#SECNO 9900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.80 ELREA= 1282.50

9900.00	9.89	1284.69	.00	.00	1284.95	.26	.02	.03	1286.80
6250.	0.	3963.	2287.	0.	790.	1673.	170.	29.	1282.50
.60	.00	5.02	1.37	.000	.018	.030	.000	1274.80	2.11
.000220	130.	130.	130.	2	0	0	.00	955.57	957.68

#SECNO 10000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.80 ELREA= 1282.50

10000.00	9.92	1284.72	.00	.00	1284.97	.26	.02	.00	1286.80
6250.	0.	3950.	2300.	0.	791.	1690.	176.	31.	1282.50
.61	.00	4.99	1.36	.000	.018	.030	.000	1274.80	2.09
.000217	100.	100.	100.	0	0	0	.00	961.23	963.32

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

1490 NH CARD USED
#SECNO 10600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1283.00

10600.00	9.81	1284.81	.00	.00	1285.14	.33	.14	.02	1287.00
6250.	0.	4303.	1947.	0.	781.	1551.	209.	45.	1283.00
.65	.00	5.51	1.25	.000	.018	.030	.000	1275.00	2.19
.000269	600.	600.	600.	2	0	0	.00	1064.25	1066.44

1490 NH CARD USED
#SECNO 11100.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.20 ELREA= 1283.20

11100.00	9.81	1285.01	.00	.00	1285.27	.26	.12	.01	1287.20
6250.	0.	3932.	2318.	0.	782.	1876.	237.	58.	1283.20
.68	.00	5.03	1.24	.000	.018	.030	.000	1275.20	2.18
.000224	500.	500.	500.	2	0	0	.00	1190.67	1192.85

1490 NH CARD USED
#SECNO 11200.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.70 ELREA= 1285.50

11200.00	9.23	1284.43	.00	.00	1285.57	1.15	.04	.27	1286.70
6250.	0.	6250.	0.	0.	728.	0.	241.	60.	1285.50
.69	.00	8.59	.00	.000	.018	.000	.000	1275.20	2.27
.000722	100.	100.	100.	2	0	0	.00	87.57	89.84

1490 NH CARD USED
#SECNO 11400.000

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.80 ELREA= 1285.60

11400.00	9.29	1284.59	.00	.00	1285.72	1.13	.14	.00	1286.80
6250.	0.	6250.	0.	0.	732.	0.	245.	60.	1285.60
.69	.00	8.54	.00	.000	.018	.000	.000	1275.30	2.21
.000709	200.	200.	200.	2	0	0	.00	87.67	89.88

1490 NH CARD USED
#SECNO 11900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1285.80

11900.00	9.49	1284.99	.00	.00	1286.07	1.08	.34	.01	1287.00
6250.	0.	6250.	0.	0.	750.	0.	253.	61.	1285.80
.71	.00	8.34	.00	.000	.018	.000	.000	1275.50	2.01
.000660	500.	500.	500.	2	0	0	.00	88.05	90.07

1490 NH CARD USED
#SECNO 12300.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1285.90

12300.00	9.70	1285.30	.00	.00	1286.33	1.03	.25	.01	1287.10
6250.	0.	6250.	0.	0.	768.	0.	260.	62.	1285.90
.72	.00	8.13	.00	.000	.018	.000	.000	1275.60	1.80
.000613	400.	400.	400.	2	0	0	.00	88.46	90.26

1490 NH CARD USED
#SECNO 12400.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.20 ELREA= 1283.70

12400.00	10.65	1286.35	.00	.00	1286.44	.09	.02	.09	1287.20
6250.	0.	2869.	3381.	0.	855.	3446.	266.	64.	1283.70
.74	.00	3.35	.98	.000	.018	.030	.000	1275.70	.85
.000090	100.	100.	100.	3	0	0	.00	1483.92	1484.77

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

1490 NH CARD USED
#SECNO 12900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.40 ELREA= 1283.90

12900.00	10.50	1286.40	.00	.00	1286.48	.09	.05	.00	1287.40
6250.	0.	2841.	3409.	0.	842.	3432.	315.	80.	1283.90
.80	.00	3.37	.99	.000	.018	.030	.000	1275.90	1.00
.000093	500.	500.	500.	2	0	0	.00	1426.46	1427.46

1490 NH CARD USED
#SECNO 13200.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1284.00

13200.00	10.42	1286.42	.00	.00	1286.51	.09	.03	.00	1287.00
6250.	0.	2824.	3426.	0.	835.	3445.	345.	90.	1284.00
.84	.00	3.38	.99	.000	.018	.030	.000	1276.00	.58
.000094	300.	300.	300.	0	0	0	.00	1430.17	1430.74

1490 NH CARD USED
#SECNO 13600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1284.20

13600.00	10.27	1286.47	.00	.00	1286.55	.08	.04	.00	1287.00
6250.	0.	2741.	3509.	0.	822.	3506.	384.	103.	1284.20
.90	.00	3.34	1.00	.000	.018	.030	.000	1276.20	.55
.000093	400.	400.	400.	0	0	0	.00	1434.75	1435.30

1490 NH CARD USED
#SECNO 13700.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1287.20

13700.00	9.62	1285.82	.00	.00	1286.85	1.03	.02	.28	1287.10
6250.	0.	6250.	0.	0.	767.	0.	390.	105.	1287.20
.90	.00	8.15	.00	.000	.018	.000	.000	1276.20	1.28
.000621	100.	100.	100.	2	0	0	.00	89.34	90.63

#SECNO 13800.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1287.20

13800.00	9.70	1285.90	.00	.00	1286.92	1.01	.06	.00	1287.10
6250.	0.	6250.	0.	0.	774.	0.	392.	105.	1287.20
.91	.00	8.08	.00	.000	.018	.000	.000	1276.20	1.21
.000605	100.	100.	100.	2	0	0	.00	89.50	90.70

THIS RUN EXECUTED 8/29/90 16:28:13

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HEC2 RELEASE DATED SEPT 88

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

ARIZONA CANAL SRP OPERAT

SUMMARY PRINTOUT TABLE 120

	SECNO	CWSEL	EG	VCH	10*KS	DEPTH	TOPWID	CLSTA	BW	STCHL	XLBEL	STCHR	RBEL
	591.200	1280.50	1280.65	3.14	1.11	9.10	56.00	.00	.01	20.00	1281.40	76.00	1281.40
	591.200	1280.50	1280.87	4.91	2.70	9.10	56.00	.00	.01	20.00	1281.40	76.00	1281.40
	605.200	1280.50	1280.65	3.14	1.11	9.10	56.00	.00	.01	20.00	1281.40	76.00	1281.40
	605.200	1280.50	1280.88	4.90	2.70	9.10	56.00	.00	.01	20.00	1281.40	76.00	1281.40
*	631.200	1280.59	1280.66	2.20	.48	9.19	88.38	.00	.01	.00	1281.40	90.00	1281.40
*	631.200	1280.72	1280.90	3.38	1.11	9.32	88.65	.00	.01	.00	1281.40	90.00	1281.40
	1000.000	1280.61	1280.68	2.22	.49	9.11	88.41	.00	.01	.00	1281.40	90.00	1281.40
	1000.000	1280.76	1280.94	3.40	1.13	9.26	88.71	.00	.01	.00	1281.40	90.00	1281.40
	1200.000	1280.62	1280.69	2.22	.49	9.12	88.42	.00	.01	.00	1281.40	90.00	1281.40
	1200.000	1280.79	1280.97	3.39	1.12	9.29	88.76	.00	.01	.00	1281.40	90.00	1281.40
	1600.000	1280.63	1280.71	2.24	.50	9.03	88.36	.00	.01	.00	1281.70	90.00	1281.20
	1600.000	1280.83	1281.01	3.41	1.14	9.23	88.76	.00	.01	.00	1281.70	90.00	1281.20
	1895.000	1280.65	1280.73	2.36	.71	8.95	81.62	.00	.01	7.50	1283.20	93.80	1283.30
	1895.000	1280.86	1281.06	3.59	1.62	9.16	81.90	.00	.01	7.50	1283.20	93.80	1283.30
	1985.000	1280.65	1280.74	2.36	.71	8.95	81.63	.00	.01	7.50	1283.20	93.80	1283.30
	1985.000	1280.88	1281.08	3.59	1.62	9.18	81.91	.00	.01	7.50	1283.20	93.80	1283.30
	2500.000	1280.69	1280.77	2.31	.55	8.79	87.49	.00	.01	.00	1283.30	91.00	1281.60
	2500.000	1280.96	1281.15	3.49	1.22	9.06	88.03	.00	.01	.00	1283.30	91.00	1281.60
	2900.000	1280.71	1280.80	2.36	.58	8.71	86.53	.00	.01	.00	1282.90	89.00	1281.00
	2900.000	1281.00	1281.20	3.55	1.27	9.00	87.11	.00	.01	.00	1282.90	89.00	1281.00
	3155.100	1280.73	1280.81	2.35	.58	8.63	87.97	.00	.01	.00	1282.90	91.00	1281.60
	3155.100	1281.04	1281.23	3.53	1.27	8.94	88.62	.00	.01	.00	1282.90	91.00	1281.60

SECNO	CWSEL	EG	VCH	10*KS	DEPTH	TOPWID	CLSTA	BW	STCHL	XLBEL	STCHR	RBEL
3365.000	1280.74	1280.82	2.36	.60	8.54	88.77	.00	.01	.00	1282.90	92.00	1281.60
3365.000	1281.07	1281.26	3.54	1.29	8.87	89.49	.00	.01	.00	1282.90	92.00	1281.60
4000.000	1280.77	1280.87	2.44	.65	8.37	86.74	.00	.01	.00	1283.10	91.00	1282.70
4000.000	1281.14	1281.35	3.63	1.37	8.74	87.49	.00	.01	.00	1283.10	91.00	1282.70
4350.000	1280.80	1280.89	2.44	.66	8.30	88.04	.00	.01	.00	1282.80	93.00	1283.30
4350.000	1281.19	1281.40	3.62	1.38	8.69	88.90	.00	.01	.00	1282.80	93.00	1283.30
4800.000	1280.83	1280.92	2.44	.68	8.13	91.21	.00	.01	.00	1282.40	95.00	1282.20
4800.000	1281.26	1281.46	3.60	1.40	8.56	92.33	.00	.01	.00	1282.40	95.00	1282.20
5300.000	1280.86	1280.96	2.57	.77	7.96	86.39	.00	.01	.00	1283.10	91.00	1283.10
5300.000	1281.32	1281.54	3.77	1.55	8.42	87.35	.00	.01	.00	1283.10	91.00	1283.10
5850.000	1280.90	1281.00	2.64	.83	7.80	85.23	.00	.01	.00	1283.80	91.00	1283.90
5850.000	1281.40	1281.63	3.86	1.64	8.30	86.22	.00	.01	.00	1283.80	91.00	1283.90
5900.000	1280.90	1281.01	2.67	.86	7.70	85.40	.00	.01	.00	1284.20	91.80	1284.00
5900.000	1281.40	1281.64	3.90	1.70	8.20	86.41	.00	.01	.00	1284.20	91.80	1284.00
6010.000	1280.91	1281.02	2.67	.86	7.71	85.42	.00	.01	.00	1284.20	91.80	1284.00
6010.000	1281.42	1281.66	3.89	1.69	8.22	86.44	.00	.01	.00	1284.20	91.80	1284.00
6117.000	1280.92	1281.03	2.65	.84	7.72	107.72	.00	.01	.00	1284.20	88.30	1280.50
6117.000	1281.45	1281.68	3.84	1.61	8.25	108.24	.00	.01	.00	1284.20	88.30	1280.50
6337.000	1280.94	1281.05	2.68	.87	7.64	107.71	.00	.01	.00	1284.20	88.30	1280.60
6337.000	1281.37	1281.78	5.20	3.04	8.07	108.14	.00	.01	.00	1284.20	88.30	1280.60
6557.000	1280.95	1281.07	2.72	.91	7.55	111.89	.00	.01	.00	1284.50	88.30	1280.70
6557.000	1281.31	1281.93	6.33	4.62	7.91	112.24	.00	.01	.00	1284.50	88.30	1280.70
6777.000	1280.97	1281.09	2.75	.94	7.47	109.97	.00	.01	.00	1284.50	88.30	1280.80
6777.000	1281.29	1282.10	7.25	6.19	7.79	110.29	.00	.01	.00	1284.50	88.30	1280.80
6997.000	1280.99	1281.11	2.79	.98	7.39	109.53	.00	.01	.00	1285.00	88.60	1280.90
6997.000	1281.32	1282.31	8.01	7.65	7.72	109.85	.00	.01	.00	1285.00	88.60	1280.90
7217.000	1281.01	1281.13	2.82	1.02	7.31	109.81	.00	.01	.00	1285.00	88.60	1281.00
7217.000	1281.40	1282.53	8.56	8.76	7.70	110.20	.00	.01	.00	1285.00	88.60	1281.00
7329.000	1281.02	1281.15	2.82	1.01	7.32	85.14	.00	.01	.00	1285.00	92.30	1284.00
7329.000	1281.53	1282.63	8.43	8.40	7.83	86.19	.00	.01	.00	1285.00	92.30	1284.00
7431.000	1281.04	1281.16	2.82	1.01	7.34	84.68	.00	.01	.00	1285.00	92.30	1284.70
7431.000	1281.73	1282.78	8.22	7.75	8.03	86.06	.00	.01	.00	1285.00	92.30	1284.70
7452.000	1281.06	1281.18	2.82	1.01	7.36	84.54	.00	.01	.00	1285.00	92.30	1284.70
7452.000	1281.89	1282.91	8.07	7.32	8.19	86.25	.00	.01	.00	1285.00	92.30	1284.70

	SECNO	CWSEL	EG	VCH	10*KS	DEPTH	TOPWID	CLSTA	BW	STCHL	XLBEL	STCHR	RBEL
	7458.000	1281.06	1281.18	2.82	1.01	7.36	84.54	.00	.01	.00	1285.00	92.30	1284.70
	7458.000	1281.90	1282.91	8.07	7.31	8.20	86.26	.00	.01	.00	1285.00	92.30	1284.70
	7499.000	1281.06	1281.20	2.95	1.65	7.26	81.71	.00	.01	.00	1285.00	92.00	1285.00
	7499.000	1281.93	1283.03	8.39	12.10	8.13	83.40	.00	.01	.00	1285.00	92.00	1285.00
	7532.000	1281.07	1281.20	2.95	1.65	7.27	81.71	.00	.01	.00	1285.00	92.00	1285.00
	7532.000	1282.00	1283.07	8.32	11.81	8.20	83.53	.00	.01	.00	1285.00	92.00	1285.00
	7680.000	1281.09	1281.22	2.88	1.08	7.19	84.38	.00	.01	.00	1285.00	92.20	1285.00
	7680.000	1282.25	1283.21	7.87	6.80	8.35	86.70	.00	.01	.00	1285.00	92.20	1285.00
	7760.000	1281.10	1281.23	2.92	1.13	7.10	84.21	.00	.01	.00	1285.00	92.00	1285.00
	7760.000	1282.30	1283.27	7.93	6.95	8.30	86.60	.00	.01	.00	1285.00	92.00	1285.00
	7772.000	1281.10	1281.24	2.93	1.13	7.10	83.93	.00	.01	.00	1285.00	91.70	1284.70
*	7772.000	1282.22	1283.38	8.62	21.51	8.22	86.20	.00	.01	.00	1285.00	91.70	1284.70
	8100.000	1281.14	1281.27	2.95	1.16	7.04	84.14	.00	.01	.00	1285.60	92.50	1285.00
*	8100.000	1282.87	1283.73	7.45	5.76	8.77	87.63	.00	.01	.00	1285.60	92.50	1285.00
	8600.000	1281.20	1281.33	2.97	1.19	7.00	83.99	.00	.01	.00	1285.70	92.50	1285.20
	8600.000	1283.20	1284.02	7.24	5.28	9.00	88.01	.00	.01	.00	1285.70	92.50	1285.20
	8700.000	1281.21	1281.35	3.01	1.24	6.91	83.81	.00	.01	.00	1285.80	91.00	1283.80
	8700.000	1283.24	1284.07	7.31	5.42	8.94	87.90	.00	.01	.00	1285.80	91.00	1283.80
	8920.000	1281.23	1281.37	3.05	1.29	6.83	83.60	.00	.01	.00	1286.00	91.00	1283.90
	8920.000	1283.29	1284.24	7.79	6.21	8.89	87.71	.00	.01	.00	1286.00	91.00	1283.90
	9140.000	1281.26	1281.40	3.07	1.32	6.76	84.10	.00	.01	.00	1286.00	92.00	1284.00
	9140.000	1283.35	1284.42	8.29	7.07	8.85	88.47	.00	.01	.00	1286.00	92.00	1284.00
	9360.000	1281.28	1281.44	3.12	1.38	6.68	83.50	.00	.01	.00	1287.00	92.00	1284.00
	9360.000	1283.40	1284.64	8.95	8.29	8.80	87.76	.00	.01	.00	1287.00	92.00	1284.00
	9460.000	1281.30	1281.45	3.11	1.37	6.70	83.52	.00	.01	.00	1287.00	92.00	1284.00
	9460.000	1283.49	1284.72	8.91	8.14	8.89	87.93	.00	.01	.00	1287.00	92.00	1284.00
	9600.000	1281.32	1281.47	3.10	1.36	6.72	83.52	.00	.01	.00	1287.10	90.50	1282.50
*	9600.000	1284.70	1284.87	4.34	1.61	10.10	1206.12	.00	.01	.00	1287.10	90.50	1282.50
	9770.000	1281.34	1281.49	3.09	1.34	6.74	83.57	.00	.01	.00	1287.10	90.50	1282.50
	9770.000	1284.73	1284.90	4.29	1.56	10.13	1213.97	.00	.01	.00	1287.10	90.50	1282.50
	9900.000	1281.35	1281.51	3.18	1.47	6.55	83.38	.00	.01	.00	1286.80	90.00	1282.50
	9900.000	1284.69	1284.95	5.02	2.20	9.89	955.57	.00	.01	.00	1286.80	90.00	1282.50
	10000.000	1281.37	1281.53	3.18	1.46	6.57	83.39	.00	.01	.00	1286.80	90.00	1282.50
	10000.000	1284.72	1284.97	4.99	2.17	9.92	961.23	.00	.01	.00	1286.80	90.00	1282.50

	SECNO	CWSEL	EG	VCH	10*KS	DEPTH	TOPWID	CLSTA	BW	STCHL	XLBEL	STCHR	RBEL
	10600.000	1281.46	1281.62	3.24	1.55	6.46	82.92	.00	.01	.00	1287.00	90.00	1283.00
	10600.000	1284.81	1285.14	5.51	2.69	9.81	1064.25	.00	.01	.00	1287.00	90.00	1283.00
	11100.000	1281.53	1281.70	3.31	1.66	6.33	82.66	.00	.01	.00	1287.20	90.00	1283.20
	11100.000	1285.01	1285.27	5.03	2.24	9.81	1190.67	.00	.01	.00	1287.20	90.00	1283.20
	11200.000	1281.55	1281.72	3.32	1.66	6.35	82.08	.00	.01	.00	1286.70	90.80	1285.50
*	11200.000	1284.43	1285.57	8.59	7.22	9.23	87.57	.00	.01	.00	1286.70	90.80	1285.50
	11400.000	1281.58	1281.75	3.35	1.71	6.28	81.95	.00	.01	.00	1286.80	90.80	1285.60
	11400.000	1284.59	1285.72	8.54	7.09	9.29	87.67	.00	.01	.00	1286.80	90.80	1285.60
	11900.000	1281.66	1281.84	3.42	1.83	6.16	81.73	.00	.01	.00	1287.00	90.80	1285.80
	11900.000	1284.99	1286.07	8.34	6.60	9.49	88.05	.00	.01	.00	1287.00	90.80	1285.80
	12300.000	1281.73	1281.92	3.44	1.86	6.13	81.67	.00	.01	.00	1287.10	90.80	1285.90
	12300.000	1285.30	1286.33	8.13	6.13	9.70	88.46	.00	.01	.00	1287.10	90.80	1285.90
	12400.000	1281.75	1281.94	3.48	1.93	6.05	82.10	.00	.01	.00	1287.20	89.50	1283.70
*	12400.000	1286.35	1286.44	3.35	.90	10.65	1483.92	.00	.01	.00	1287.20	89.50	1283.70
	12900.000	1281.84	1282.04	3.54	2.05	5.94	81.89	.00	.01	.00	1287.40	89.50	1283.90
	12900.000	1286.40	1286.48	3.37	.93	10.50	1426.46	.00	.01	.00	1287.40	89.50	1283.90
	13200.000	1281.90	1282.10	3.57	2.09	5.90	81.81	.00	.01	.00	1287.00	89.00	1284.00
	13200.000	1286.42	1286.51	3.38	.94	10.42	1430.17	.00	.01	.00	1287.00	89.00	1284.00
	13600.000	1281.98	1282.19	3.65	2.23	5.78	81.68	.00	.01	.00	1287.00	89.00	1284.20
	13600.000	1286.47	1286.55	3.34	.93	10.27	1434.75	.00	.01	.00	1287.00	89.00	1284.20
	13700.000	1282.01	1282.21	3.63	2.21	5.81	81.67	.00	.01	.00	1287.10	92.00	1287.20
*	13700.000	1285.82	1286.85	8.15	6.21	9.62	89.34	.00	.01	.00	1287.10	92.00	1287.20
	13800.000	1282.03	1282.24	3.62	2.18	5.83	81.71	.00	.01	.00	1287.10	92.00	1287.20
	13800.000	1285.90	1286.92	8.08	6.05	9.70	89.50	.00	.01	.00	1287.10	92.00	1287.20

ARIZONA CANAL SRP OPERAT

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	591.200	.00	.00	.00	1271.40	1600.00	1280.50	.00	1280.65	1.11	3.14	509.60	1520.16
	591.200	.00	.00	.00	1271.40	2500.00	1280.50	.00	1280.87	2.70	4.91	509.60	1520.16
	605.200	14.00	.00	.00	1271.40	1600.00	1280.50	.00	1280.65	1.11	3.14	509.69	1520.55
	605.200	14.00	.00	.00	1271.40	2500.00	1280.50	.00	1280.88	2.70	4.90	509.81	1521.11
#	631.200	26.00	.00	.00	1271.40	1600.00	1280.59	.00	1280.66	.48	2.20	727.69	2318.44
#	631.200	26.00	.00	.00	1271.40	2500.00	1280.72	.00	1280.90	1.11	3.38	739.63	2375.89
	1000.000	369.00	.00	.00	1271.50	1600.00	1280.61	.00	1280.68	.49	2.22	721.73	2288.30
	1000.000	369.00	.00	.00	1271.50	2500.00	1280.76	.00	1280.94	1.13	3.40	735.14	2352.54
	1200.000	200.00	.00	.00	1271.50	1600.00	1280.62	.00	1280.69	.49	2.22	722.05	2289.79
	1200.000	200.00	.00	.00	1271.50	2500.00	1280.79	.00	1280.97	1.12	3.39	737.12	2362.09
	1600.000	400.00	.00	.00	1271.60	1600.00	1280.63	.00	1280.71	.50	2.24	715.42	2257.28
	1600.000	400.00	.00	.00	1271.60	2500.00	1280.83	.00	1281.01	1.14	3.41	732.85	2340.53
	1895.000	295.00	1284.30	1283.30	1271.70	1600.00	1280.65	.00	1280.73	.71	2.36	678.48	1892.69
	1895.000	295.00	1284.30	1283.30	1271.70	2500.00	1280.86	.00	1281.06	1.62	3.59	696.05	1963.79
	1985.000	90.00	1284.30	1283.30	1271.70	1600.00	1280.65	.00	1280.74	.71	2.36	678.81	1894.01
	1985.000	90.00	1284.30	1283.30	1271.70	2500.00	1280.88	.00	1281.08	1.62	3.59	696.79	1966.80
	2500.000	515.00	.00	.00	1271.90	1600.00	1280.69	.00	1280.77	.55	2.31	692.28	2151.28
	2500.000	515.00	.00	.00	1271.90	2500.00	1280.96	.00	1281.15	1.22	3.49	715.80	2262.48
	2900.000	400.00	.00	.00	1272.00	1600.00	1280.71	.00	1280.80	.58	2.36	678.24	2094.55
	2900.000	400.00	.00	.00	1272.00	2500.00	1281.00	.00	1281.20	1.27	3.55	703.82	2214.86
	3155.100	255.00	.00	.00	1272.10	1600.00	1280.73	.00	1280.81	.58	2.35	681.29	2092.48
	3155.100	255.00	.00	.00	1272.10	2500.00	1281.04	.00	1281.23	1.27	3.53	708.79	2221.09
	3365.000	210.00	.00	.00	1272.20	1600.00	1280.74	.00	1280.82	.60	2.36	677.86	2068.56
	3365.000	210.00	.00	.00	1272.20	2500.00	1281.07	.00	1281.26	1.29	3.54	707.11	2204.49
	4000.000	635.00	.00	.00	1272.40	1600.00	1280.77	.00	1280.87	.65	2.44	656.44	1984.47
	4000.000	635.00	.00	.00	1272.40	2500.00	1281.14	.00	1281.35	1.37	3.63	688.81	2134.30
	4350.000	350.00	.00	.00	1272.50	1600.00	1280.80	.00	1280.89	.66	2.44	655.53	1967.91
	4350.000	350.00	.00	.00	1272.50	2500.00	1281.19	.00	1281.40	1.38	3.62	690.41	2128.05
	4800.000	450.00	.00	.00	1272.70	1600.00	1280.83	.00	1280.92	.68	2.44	655.02	1933.91
	4800.000	450.00	.00	.00	1272.70	2500.00	1281.26	.00	1281.46	1.40	3.60	694.33	2110.66
	5300.000	500.00	.00	.00	1272.90	1600.00	1280.86	.00	1280.96	.77	2.57	622.47	1827.13
	5300.000	500.00	.00	.00	1272.90	2500.00	1281.32	.00	1281.54	1.55	3.77	663.04	2010.54

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
5850.000	550.00	.00	.00	1273.10	1600.00	1280.90	.00	1281.00	.83	2.64	605.11	1756.24
5850.000	550.00	.00	.00	1273.10	2500.00	1281.40	.00	1281.63	1.64	3.86	648.22	1949.84
5900.000	50.00	.00	.00	1273.20	1600.00	1280.90	.00	1281.01	.86	2.67	598.29	1723.69
5900.000	50.00	.00	.00	1273.20	2500.00	1281.40	.00	1281.64	1.70	3.90	641.79	1917.74
6010.000	110.00	.00	.00	1273.20	1600.00	1280.91	.00	1281.02	.86	2.67	598.94	1726.57
6010.000	110.00	.00	.00	1273.20	2500.00	1281.42	.00	1281.66	1.69	3.89	643.15	1923.86
6117.000	107.00	.00	.00	1273.20	1600.00	1280.92	.00	1281.03	.84	2.65	620.50	1746.57
6117.000	107.00	.00	.00	1273.20	2500.00	1281.45	.00	1281.68	1.61	3.84	677.09	1967.35
6337.000	220.00	.00	.00	1273.30	1600.00	1280.94	.00	1281.05	.87	2.68	612.24	1714.96
6337.000	220.00	.00	.00	1273.30	3303.00	1281.37	.00	1281.78	3.04	5.20	658.47	1893.05
6557.000	220.00	.00	.00	1273.40	1600.00	1280.95	.00	1281.07	.91	2.72	606.12	1681.58
6557.000	220.00	.00	.00	1273.40	3930.00	1281.31	.00	1281.93	4.62	6.33	645.79	1827.84
6777.000	220.00	.00	.00	1273.50	1600.00	1280.97	.00	1281.09	.94	2.75	595.94	1648.81
6777.000	220.00	.00	.00	1273.50	4425.00	1281.29	.00	1282.10	6.19	7.25	630.95	1778.19
6997.000	220.00	.00	.00	1273.60	1600.00	1280.99	.00	1281.11	.98	2.79	586.61	1615.98
6997.000	220.00	.00	.00	1273.60	4832.00	1281.32	.00	1282.31	7.65	8.01	622.24	1746.81
7217.000	220.00	.00	.00	1273.70	1600.00	1281.01	.00	1281.13	1.02	2.82	578.22	1585.11
7217.000	220.00	.00	.00	1273.70	5150.00	1281.40	.00	1282.53	8.76	8.56	620.82	1740.27
7329.000	112.00	.00	.00	1273.70	1600.00	1281.02	.00	1281.15	1.01	2.82	568.00	1588.93
7329.000	112.00	.00	.00	1273.70	5150.00	1281.53	.00	1282.63	8.40	8.43	611.24	1776.76
7431.000	180.00	.00	.00	1273.70	1600.00	1281.04	.00	1281.16	1.01	2.82	567.76	1591.36
7431.000	180.00	.00	.00	1273.70	5150.00	1281.73	.00	1282.78	7.75	8.22	626.75	1849.94
7452.000	161.00	1284.90	1283.90	1273.70	1600.00	1281.06	.00	1281.18	1.01	2.82	566.65	1588.78
7452.000	161.00	1284.90	1283.90	1273.70	5150.00	1281.89	.00	1282.91	7.32	8.07	638.07	1902.98
7458.000	6.00	1284.90	1283.90	1273.70	1600.00	1281.06	.00	1281.18	1.01	2.82	566.67	1588.87
7458.000	6.00	1284.90	1283.90	1273.70	5150.00	1281.90	.00	1282.91	7.31	8.07	638.47	1904.79
7499.000	80.00	1286.00	1284.00	1273.80	1600.00	1281.06	.00	1281.20	1.65	2.95	542.02	1244.39
7499.000	80.00	1286.00	1284.00	1273.80	5150.00	1281.93	.00	1283.03	12.10	8.39	613.51	1480.50
7532.000	33.00	1286.00	1284.00	1273.80	1600.00	1281.07	.00	1281.20	1.65	2.95	542.09	1244.62
7532.000	33.00	1286.00	1284.00	1273.80	5150.00	1282.00	.00	1283.07	11.81	8.32	618.86	1498.57
7680.000	148.00	.00	.00	1273.90	1600.00	1281.09	.00	1281.22	1.08	2.88	555.15	1537.66
7680.000	148.00	.00	.00	1273.90	5150.00	1282.25	.00	1283.21	6.80	7.87	654.25	1974.43
7760.000	80.00	.00	.00	1274.00	1600.00	1281.10	.00	1281.23	1.13	2.92	547.82	1506.72
7760.000	80.00	.00	.00	1274.00	5150.00	1282.30	.00	1283.27	6.95	7.93	649.79	1954.06

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	7772.000	12.00	1284.70	1284.70	1274.00	1600.00	1281.10	.00	1281.24	1.13	2.93	546.63	1503.51
*	7772.000	12.00	1284.70	1284.70	1274.00	5150.00	1282.22	.00	1283.38	21.51	8.62	597.13	1110.30
	8100.000	328.00	.00	.00	1274.10	1600.00	1281.14	.00	1281.27	1.16	2.95	542.52	1484.04
*	8100.000	328.00	.00	.00	1274.10	5150.00	1282.87	.00	1283.73	5.76	7.45	691.53	2146.33
	8600.000	500.00	.00	.00	1274.20	1600.00	1281.20	.00	1281.33	1.19	2.97	538.64	1468.24
	8600.000	500.00	.00	.00	1274.20	5150.00	1283.20	.00	1284.02	5.28	7.24	711.30	2240.27
	8700.000	100.00	.00	.00	1274.30	1600.00	1281.21	.00	1281.35	1.24	3.01	531.23	1437.37
	8700.000	100.00	.00	.00	1274.30	5164.00	1283.24	.00	1284.07	5.42	7.31	706.66	2218.28
	8920.000	220.00	.00	.00	1274.40	1600.00	1281.23	.00	1281.37	1.29	3.05	524.70	1410.73
	8920.000	220.00	.00	.00	1274.40	5465.00	1283.29	.00	1284.24	6.21	7.79	701.17	2193.02
	9140.000	220.00	.00	.00	1274.50	1600.00	1281.26	.00	1281.40	1.32	3.07	520.73	1390.33
	9140.000	220.00	.00	.00	1274.50	5813.00	1283.35	.00	1284.42	7.07	8.29	701.38	2186.49
	9360.000	220.00	.00	.00	1274.60	1600.00	1281.28	.00	1281.44	1.38	3.12	513.16	1362.29
	9360.000	220.00	.00	.00	1274.60	6210.00	1283.40	.00	1284.64	8.29	8.95	693.81	2156.32
	9460.000	100.00	.00	.00	1274.60	1600.00	1281.30	.00	1281.45	1.37	3.11	514.12	1366.20
	9460.000	100.00	.00	.00	1274.60	6250.00	1283.49	.00	1284.72	8.14	8.91	701.19	2191.00
	9600.000	140.00	.00	.00	1274.60	1600.00	1281.32	.00	1281.47	1.36	3.10	515.67	1372.77
*	9600.000	140.00	.00	.00	1274.60	6250.00	1284.70	.00	1284.87	1.61	4.34	3107.16	4927.64
	9770.000	170.00	.00	.00	1274.60	1600.00	1281.34	.00	1281.49	1.34	3.09	517.67	1380.94
	9770.000	170.00	.00	.00	1274.60	6250.00	1284.73	.00	1284.90	1.56	4.29	3154.42	5002.19
	9900.000	130.00	.00	.00	1274.80	1600.00	1281.35	.00	1281.51	1.47	3.18	503.11	1320.68
	9900.000	130.00	.00	.00	1274.80	6250.00	1284.69	.00	1284.95	2.20	5.02	2462.99	4216.59
	10000.000	100.00	.00	.00	1274.80	1600.00	1281.37	.00	1281.53	1.46	3.18	503.82	1323.56
	10000.000	100.00	.00	.00	1274.80	6250.00	1284.72	.00	1284.97	2.17	4.99	2481.01	4245.00
	10600.000	600.00	.00	.00	1275.00	1600.00	1281.46	.00	1281.62	1.55	3.24	493.77	1284.63
	10600.000	600.00	.00	.00	1275.00	6250.00	1284.81	.00	1285.14	2.69	5.51	2332.29	3811.06
	11100.000	500.00	.00	.00	1275.20	1600.00	1281.53	.00	1281.70	1.66	3.31	483.28	1242.83
	11100.000	500.00	.00	.00	1275.20	6250.00	1285.01	.00	1285.27	2.24	5.03	2657.78	4175.51
	11200.000	100.00	.00	.00	1275.20	1600.00	1281.55	.00	1281.72	1.66	3.32	482.63	1243.66
*	11200.000	100.00	.00	.00	1275.20	6250.00	1284.43	.00	1285.57	7.22	8.59	727.59	2325.84
	11400.000	200.00	.00	.00	1275.30	1600.00	1281.58	.00	1281.75	1.71	3.35	477.16	1221.95
	11400.000	200.00	.00	.00	1275.30	6250.00	1284.59	.00	1285.72	7.09	8.54	731.99	2347.04
	11900.000	500.00	.00	.00	1275.50	1600.00	1281.66	.00	1281.84	1.83	3.42	467.52	1184.02
	11900.000	500.00	.00	.00	1275.50	6250.00	1284.99	.00	1286.07	6.60	8.34	749.77	2433.37

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	12300.000	400.00	.00	.00	1275.60	1600.00	1281.73	.00	1281.92	1.86	3.44	465.05	1174.39
	12300.000	400.00	.00	.00	1275.60	6250.00	1285.30	.00	1286.33	6.13	8.13	768.39	2524.72
	12400.000	100.00	.00	.00	1275.70	1600.00	1281.75	.00	1281.94	1.93	3.48	460.30	1152.82
*	12400.000	100.00	.00	.00	1275.70	6250.00	1286.35	.00	1286.44	.90	3.35	4301.09	6593.92
	12900.000	500.00	.00	.00	1275.90	1600.00	1281.84	.00	1282.04	2.05	3.54	451.47	1118.81
	12900.000	500.00	.00	.00	1275.90	6250.00	1286.40	.00	1286.48	.93	3.37	4273.70	6494.08
	13200.000	300.00	.00	.00	1276.00	1600.00	1281.90	.00	1282.10	2.09	3.57	448.11	1105.96
	13200.000	300.00	.00	.00	1276.00	6250.00	1286.42	.00	1286.51	.94	3.38	4280.67	6454.62
	13600.000	400.00	.00	.00	1276.20	1600.00	1281.98	.00	1282.19	2.23	3.65	438.89	1070.38
	13600.000	400.00	.00	.00	1276.20	6250.00	1286.47	.00	1286.55	.93	3.34	4327.68	6476.96
	13700.000	100.00	.00	.00	1276.20	1600.00	1282.01	.00	1282.21	2.21	3.63	440.32	1076.05
*	13700.000	100.00	.00	.00	1276.20	6250.00	1285.82	.00	1286.85	6.21	8.15	767.09	2508.76
	13800.000	100.00	.00	.00	1276.20	1600.00	1282.03	.00	1282.24	2.18	3.62	442.30	1083.57
	13800.000	100.00	.00	.00	1276.20	6250.00	1285.90	.00	1286.92	6.05	8.08	773.80	2541.75

ARIZONA CANAL SRP OPERAT

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	591.200	1600.00	1280.50	.00	.00	.00	56.00	.00
	591.200	2500.00	1280.50	.00	.00	.00	56.00	.00
	605.200	1600.00	1280.50	.00	.00	.00	56.00	14.00
	605.200	2500.00	1280.50	.00	.00	.00	56.00	14.00
‡	631.200	1600.00	1280.59	.00	.09	.00	88.38	26.00
‡	631.200	2500.00	1280.72	.13	.22	.00	88.65	26.00
	1000.000	1600.00	1280.61	.00	.02	.00	88.41	369.00
	1000.000	2500.00	1280.76	.16	.04	.00	88.71	369.00
	1200.000	1600.00	1280.62	.00	.01	.00	88.42	200.00
	1200.000	2500.00	1280.79	.17	.02	.00	88.76	200.00
	1600.000	1600.00	1280.63	.00	.02	.00	88.36	400.00
	1600.000	2500.00	1280.83	.20	.04	.00	88.76	400.00
	1895.000	1600.00	1280.65	.00	.01	.00	81.62	295.00
	1895.000	2500.00	1280.86	.21	.03	.00	81.90	295.00
	1985.000	1600.00	1280.65	.00	.01	.00	81.63	90.00
	1985.000	2500.00	1280.88	.22	.02	.00	81.91	90.00
	2500.000	1600.00	1280.69	.00	.04	.00	87.49	515.00
	2500.000	2500.00	1280.96	.27	.08	.00	88.03	515.00
	2900.000	1600.00	1280.71	.00	.02	.00	86.53	400.00
	2900.000	2500.00	1281.00	.29	.05	.00	87.11	400.00
	3155.100	1600.00	1280.73	.00	.02	.00	87.97	255.00
	3155.100	2500.00	1281.04	.31	.04	.00	88.62	255.00
	3365.000	1600.00	1280.74	.00	.01	.00	88.77	210.00
	3365.000	2500.00	1281.07	.33	.03	.00	89.49	210.00
	4000.000	1600.00	1280.77	.00	.04	.00	86.74	635.00
	4000.000	2500.00	1281.14	.37	.08	.00	87.49	635.00
	4350.000	1600.00	1280.80	.00	.02	.00	88.04	350.00
	4350.000	2500.00	1281.19	.40	.05	.00	88.90	350.00
	4800.000	1600.00	1280.83	.00	.03	.00	91.21	450.00
	4800.000	2500.00	1281.26	.43	.07	.00	92.33	450.00
	5300.000	1600.00	1280.86	.00	.03	.00	86.39	500.00
	5300.000	2500.00	1281.32	.46	.06	.00	87.35	500.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
5850.000	1600.00	1280.90	.00	.04	.00	85.23	550.00
5850.000	2500.00	1281.40	.50	.08	.00	86.22	550.00
5900.000	1600.00	1280.90	.00	.00	.00	85.40	50.00
5900.000	2500.00	1281.40	.51	.01	.00	86.41	50.00
6010.000	1600.00	1280.91	.00	.01	.00	85.42	110.00
6010.000	2500.00	1281.42	.52	.02	.00	86.44	110.00
6117.000	1600.00	1280.92	.00	.01	.00	107.72	107.00
6117.000	2500.00	1281.45	.53	.03	.00	108.24	107.00
6337.000	1600.00	1280.94	.00	.02	.00	107.71	220.00
6337.000	3303.00	1281.37	.43	-.08	.00	108.14	220.00
6557.000	1600.00	1280.95	.00	.02	.00	111.89	220.00
6557.000	3930.00	1281.31	.36	-.06	.00	112.24	220.00
6777.000	1600.00	1280.97	.00	.02	.00	109.97	220.00
6777.000	4425.00	1281.29	.32	-.02	.00	110.29	220.00
6997.000	1600.00	1280.99	.00	.02	.00	109.53	220.00
6997.000	4832.00	1281.32	.33	.03	.00	109.85	220.00
7217.000	1600.00	1281.01	.00	.02	.00	109.81	220.00
7217.000	5150.00	1281.40	.39	.08	.00	110.20	220.00
7329.000	1600.00	1281.02	.00	.01	.00	85.14	112.00
7329.000	5150.00	1281.53	.50	.13	.00	86.19	112.00
7431.000	1600.00	1281.04	.00	.02	.00	84.68	180.00
7431.000	5150.00	1281.73	.69	.20	.00	86.06	180.00
7452.000	1600.00	1281.06	.00	.02	.00	84.54	161.00
7452.000	5150.00	1281.89	.84	.16	.00	86.25	161.00
7458.000	1600.00	1281.06	.00	.00	.00	84.54	6.00
7458.000	5150.00	1281.90	.84	.01	.00	86.26	6.00
7499.000	1600.00	1281.06	.00	.00	.00	81.71	80.00
7499.000	5150.00	1281.93	.87	.03	.00	83.40	80.00
7532.000	1600.00	1281.07	.00	.01	.00	81.71	33.00
7532.000	5150.00	1282.00	.93	.06	.00	83.53	33.00
7680.000	1600.00	1281.09	.00	.03	.00	84.38	148.00
7680.000	5150.00	1282.25	1.16	.25	.00	86.70	148.00
7760.000	1600.00	1281.10	.00	.01	.00	84.21	80.00
7760.000	5150.00	1282.30	1.20	.05	.00	86.60	80.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	7772.000	1600.00	1281.10	.00	.00	.00	83.93	12.00
*	7772.000	5150.00	1282.22	1.12	-.08	.00	86.20	12.00
	8100.000	1600.00	1281.14	.00	.04	.00	84.14	328.00
*	8100.000	5150.00	1282.87	1.74	.65	.00	87.63	328.00
	8600.000	1600.00	1281.20	.00	.06	.00	83.99	500.00
	8600.000	5150.00	1283.20	2.01	.33	.00	88.01	500.00
	8700.000	1600.00	1281.21	.00	.01	.00	83.81	100.00
	8700.000	5164.00	1283.24	2.04	.04	.00	87.90	100.00
	8920.000	1600.00	1281.23	.00	.03	.00	83.60	220.00
	8920.000	5465.00	1283.29	2.06	.05	.00	87.71	220.00
	9140.000	1600.00	1281.26	.00	.03	.00	84.10	220.00
	9140.000	5813.00	1283.35	2.09	.06	.00	88.47	220.00
	9360.000	1600.00	1281.28	.00	.03	.00	83.50	220.00
	9360.000	6210.00	1283.40	2.11	.04	.00	87.76	220.00
	9460.000	1600.00	1281.30	.00	.01	.00	83.52	100.00
	9460.000	6250.00	1283.49	2.19	.09	.00	87.93	100.00
	9600.000	1600.00	1281.32	.00	.02	.00	83.52	140.00
*	9600.000	6250.00	1284.70	3.38	1.21	.00	1206.12	140.00
	9770.000	1600.00	1281.34	.00	.02	.00	83.57	170.00
	9770.000	6250.00	1284.73	3.39	.03	.00	1213.97	170.00
	9900.000	1600.00	1281.35	.00	.01	.00	83.38	130.00
	9900.000	6250.00	1284.69	3.34	-.04	.00	955.57	130.00
	10000.000	1600.00	1281.37	.00	.02	.00	83.39	100.00
	10000.000	6250.00	1284.72	3.35	.03	.00	961.23	100.00
	10600.000	1600.00	1281.46	.00	.09	.00	82.92	600.00
	10600.000	6250.00	1284.81	3.35	.09	.00	1064.25	600.00
	11100.000	1600.00	1281.53	.00	.08	.00	82.66	500.00
	11100.000	6250.00	1285.01	3.48	.21	.00	1190.67	500.00
	11200.000	1600.00	1281.55	.00	.02	.00	82.08	100.00
*	11200.000	6250.00	1284.43	2.88	-.59	.00	87.57	100.00
	11400.000	1600.00	1281.58	.00	.03	.00	81.95	200.00
	11400.000	6250.00	1284.59	3.01	.16	.00	87.67	200.00
	11900.000	1600.00	1281.66	.00	.08	.00	81.73	500.00
	11900.000	6250.00	1284.99	3.33	.40	.00	88.05	500.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	12300.000	1600.00	1281.73	.00	.07	.00	81.67	400.00
	12300.000	6250.00	1285.30	3.56	.31	.00	88.46	400.00
	12400.000	1600.00	1281.75	.00	.02	.00	82.10	100.00
*	12400.000	6250.00	1286.35	4.60	1.05	.00	1483.92	100.00
	12900.000	1600.00	1281.84	.00	.09	.00	81.89	500.00
	12900.000	6250.00	1286.40	4.55	.05	.00	1426.46	500.00
	13200.000	1600.00	1281.90	.00	.06	.00	81.81	300.00
	13200.000	6250.00	1286.42	4.52	.03	.00	1430.17	300.00
	13600.000	1600.00	1281.98	.00	.08	.00	81.68	400.00
	13600.000	6250.00	1286.47	4.48	.04	.00	1434.75	400.00
	13700.000	1600.00	1282.01	.00	.02	.00	81.67	100.00
*	13700.000	6250.00	1285.82	3.81	-.64	.00	89.34	100.00
	13800.000	1600.00	1282.03	.00	.02	.00	81.71	100.00
	13800.000	6250.00	1285.90	3.87	.08	.00	89.50	100.00

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 631.200 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 631.200 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 7772.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

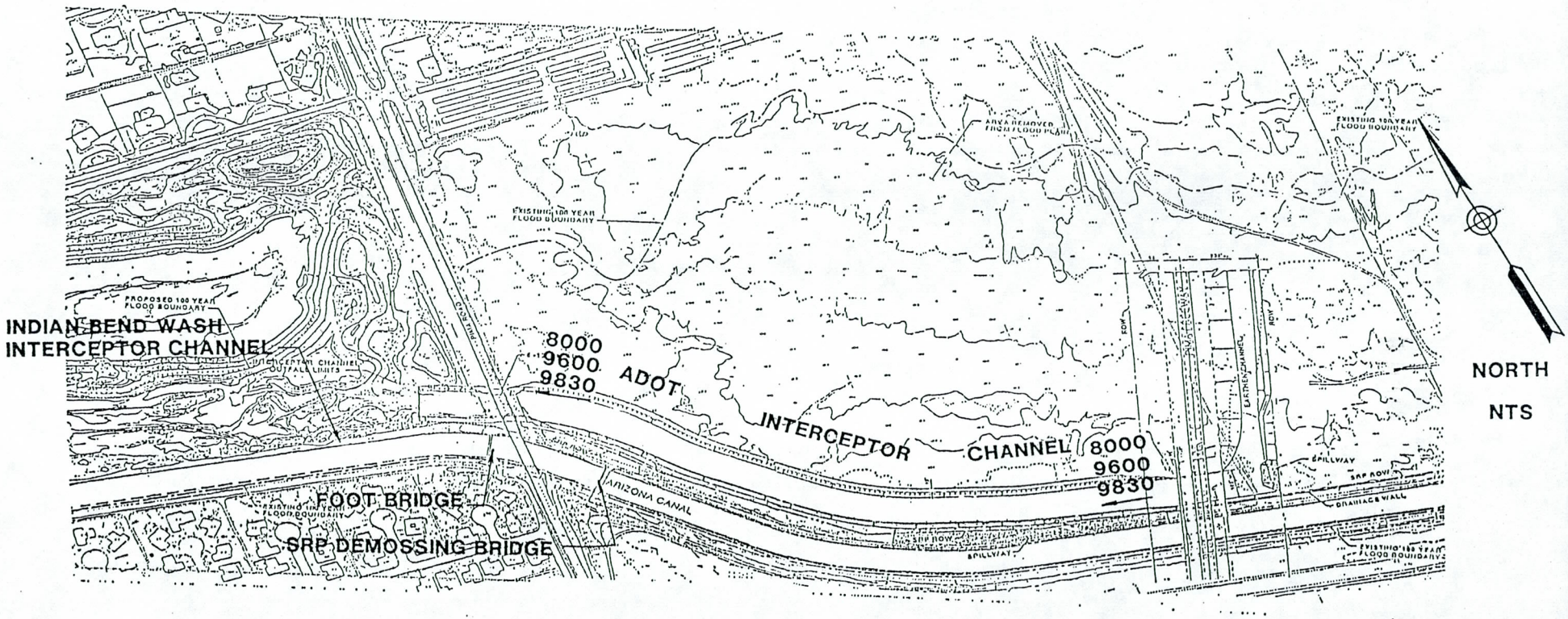
WARNING SECNO= 8100.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 9600.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 11200.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 12400.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 13700.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE



PROFILE I (ADOT DESIGN FLOW)

Q:8000 CFS,EAST OF PIMA ROAD TO PIMA FREEWAY

PROFILE 2 (ADOT (1.2)DESIGN FLOW)

Q:9600 CFS,EAST OF PIMA ROAD TO PIMA FREEWAY

PROFILE 3 (ADOT (1.23)DESIGN FLOW)

Q:9830 CFS ,EAST OF PIMA ROAD TO PIMA FREEWAY

LEGEND

8000 FLOW,CFS
—— FLOW PATH

APPENDIX H (PROFILE 1,2,&3)

HEC-2 COMPUTER MODEL
SIMULATED ADOT CONCEPT
VARIOUS FLOWS COMPARISON
ADOT INTERCEPTOR CHANNEL

```
**********************************************************
*  WATER SURFACE PROFILES                                *
*  VERSION OF SEPTEMBER 1988                             *
*                                                        *
*                                                        *
*  RUN DATE     8/ 3/90   TIME   11:34:54                *
**********************************************************
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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                      *
****************************************
```

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

END OF BANNER

Floodplain between Pima Rd - Pinnacle

J1	ICHECK	INQ	NINV					WSEL	FQ		
	0	2						1282.44			
J2	NPROF	IPLOT	PRFV					CHNIM	ITRACE		
	1	0	-1								
J3	VARIABLE CODES FOR SUMMAR										
	120	150									
NC	0.030	0.030	0								
QT	3	8000									
X1	7680.0	11	92.2	1285	0	0	0				
CI	220	1271.2	0.018	2	2		100				
X3	10										
GR	1285.0	0	1273.9	11.2	1273.9	81.2	1285.0	92.2	1284.8	116.4	
GR	1285.0	126.0	1280.5	137.0	1282.0	332.0	1283.0	937	1284.0	1000	
GR	1285.0	1285									

SRP DEMOSSING BRIDGE DOWNSTREAM

X1	7760.0	11	92	1285	80	80	80				
CI	250	.0010									
X3	10										
GR	1285.0	0	1274.0	11	1274.0	81	1285.0	92	1283.5	122	
GR	1284.0	126	1280.5	137	1282.0	332	1283.0	937	1284.0	1000	
GR	1285.0	1285									

SRP DEMOSSING BRIDGE UPSTREAM

X1	7772.0	16	91.7	1285	12	12	12				
CI											
X3	10										
BT	4	0.3	1284.7	1284.7	3.6	1284.7	1281.7	88.7	1284.7	1281.7	
BT	91.7	1284.7	1284.7								
GR	1285.0	0	1284.7	0.3	1281.7	3.6	1274.1	11	1274.1	81	
GR	1281.7	88.7	1284.7	91.7	1284.9	91.9	1283.5	122	1283.7	124	
GR	1284.0	126	1285.5	137	1285.0	332	1285.0	937	1285.0	1000	
GR	1285.0	1285									

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2							1282.44	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	-1					7		

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

120 150

NC	0.030	0.030	0.018	.1	.3					
QT	3	8000	9600	9830						
X1	7680.0	11	92.2	1285	0	0	0			
CI	220	1271.2	0.018	2	2		100			
X3	10									
GR	1285.0	0	1273.9	11.2	1273.9	81.2	1285.0	92.2	1284.8	116.4
GR	1285.0	126.0	1280.5	137.0	1282.0	332.0	1283.0	937	1284.0	1000
GR	1285.0	1285								

SRP DEMOSSING BRIDGE DOWNSTREAM

X1	7760.0	11	92	1285	80	80	80			
CI	250	.0010								
X3	10									
GR	1285.0	0	1274.0	11	1274.0	81	1285.0	92	1283.5	122
GR	1284.0	126	1280.5	137	1282.0	332	1283.0	937	1284.0	1000
GR	1285.0	1285								

SRP DEMOSSING BRIDGE UPSTREAM

X1	7772.0	16	91.7	1285	12	12	12			
CI										
X3	10									
BT	4	0.3	1284.7	1284.7	3.6	1284.7	1281.7	88.7	1284.7	1281.7
BT	91.7	1284.7	1284.7							
GR	1285.0	0	1284.7	0.3	1281.7	3.6	1274.1	11	1274.1	81
GR	1281.7	88.7	1284.7	91.7	1284.9	91.9	1283.5	122	1283.7	124
GR	1284.0	126	1285.5	137	1285.0	332	1285.0	937	1285.0	1000
GR	1285.0	1285								

X1	8100.0	12	92.5	1520	350	350	350			
CI										
X3	10									
GR	1285.5	0	1274.0	11.5	1274.0	81.5	1285.0	92.5	1285.0	122
GR	1280.7	126	1280.8	320	1281.0	402	1282.0	647	1283.0	950
GR	1284.0	1250	1285.0	1520						
X1	8600.0	13	92.5	1680	500	500	500			
CI										
X3	10									
GR	1285.7	0	1274.2	11.5	1274.2	81.5	1285.2	92.5	1285.0	116
GR	1280.8	126	1280.9	320	1281.0	402	1282.0	650	1283.0	896
GR	1284.0	1200	1285.0	1600	1285.5	1680				
X1	8700.0	13	91	1570	100	100	100			
CI										
X3	10									
GR	1285.8	0	1274.3	11.5	1274.3	81.5	1283.8	91	1283.6	116
GR	1281.4	120	1281.0	352.0	1281.5	470	1282.0	652	1283.0	872
GR	1284.0	1200	1285.0	1570	1285.5	1680				
X1	8920.0	12	91.0	1700	220	220	220			
CI										
X3	10									
GR	1286.0	0	1274.4	11.5	1274.4	81.5	1284.1	91.0	1281.2	117
GR	1280.9	250	1281.0	380	1282.0	580	1283.0	956	1284.0	1200
GR	1285.0	1400	1286.0	1700						
X1	9140.0	12	92.0	1700	220	220	220			
CI										
X3	10									
GR	1286.0	0	1274.5	12.5	1274.5	82.5	1284.1	92.0	1282.0	117
GR	1280.9	250	1281.0	380	1282.0	580	1283.0	956	1284.0	1200
GR	1285.0	1230	1286.0	1700						
X1	9360.0	12	92.0	1650	220	220	220			
CI										
X3	10									
GR	1287.0	0	1274.6	12.5	1274.6	82.5	1284.0	92.0	1282.0	117
GR	1281.0	350	1281.5	380	1282.0	450	1283.0	850	1284.0	1120
GR	1285.0	1250	1286.0	1650						
X1	9500.0	11	92.0	1490	140	140	140			
CI										
X3	10									
GR	1287.0	0	1274.6	12.5	1274.6	82.5	1284.0	92.0	1283.6	116
GR	1281.5	400	1282.0	480	1283.0	760	1284.0	1030	1285.0	1250
GR	1286.0	1490								

PROPOSED PIMA FREEWAY DOWNSTREAM

```
X1   9600.0      12       0      220      100      100      100
CI                                        0.001
X3        10                        0   1286.0      290   1290.0
GR   1287.1       0   1274.6     12.5   1274.6     82.5   1282.5     90.5   1280.3      100
GR   1281.5     220   1282.0      340   1282.0      470   1283.0      690   1284.0     1070
GR   1285.0    1270   1286.0     1450
```

PROPOSED PIMA FREEWAY UPSTREAM

```
X1   9770.0       0        0        0      170      170      170
CI
X3        10                        0   1285.0      310   1290.0

X1   9800.0      14        0     1800       30       30       30
CI
X3        10
GR   1287.0       0   1274.7     12.5   1274.7     82.0   1282.5      90   1280.3      100
GR   1273.5     180   1273.5      280   1274.3      330   1275.1     450   1277.1     1000
GR   1279.0    1500   1280.0     1670   1281.0     1720   1286.0    1800

X1   9885.0      12        0     1220       85       85       85
CI      200  1280.0    0.018    0.001    0.001                 115
X3        10
GR   1287.0       0   1274.7     12.5   1274.7     82.0   1282.5      90   1280.3      125
GR   1281.5     200   1281.0      350   1282.0      400   1283.0     600   1284.0      750
GR   1285.0    1200   1286.0     1220

X1   9900.0      11        0     1220       39       39       39
CI      250     .01      .01      .01      .01                 .01
X3        10
GR   1286.8       0   1274.8       12   1274.8       82   1282.5      90   1280.3      150
GR   1281.5     210   1282.0      400   1283.0      600   1284.0     750   1285.0     1060
GR   1286.0    1220

X1  10000.        0        0        0      100      100      100
X3        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

TW does not match - For FP. ?

*PROF 1

CCHV= .100 CEHV=
*SECNO 7680.000
CHIMP CLSTA= 220.00 C TCHR= 1285.00
EXCAVATION DATA
AEX= 1192.0SQ-FT V

3495 OVERBANK AREA ASSUME 5.00

7680.00	11.24	1282.						.00	1285.00
8000.	0.	800						0.	1285.00
.00	.00	5.						1.20	132.26
.000917	0.	0.	0.	0	0	0	.00	465.91	598.16

*SECNO 7760.000
CHIMP CLSTA= 250.00 CELCH= 1271.28 BW= 100.00 STCHL= 92.00 STCHR= 1285.00
EXCAVATION DATA
AEX= 1213.1SQ-FT VEXR= 3.6K*CU-YD VEXT= 3.6K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.00

7760.00	11.29	1282.57	.00	.00	1282.97	.40	.07	.00	1285.00
8000.	0.	8000.	0.	0.	1574.	0.	3.	1.	1285.00
.00	.00	5.09	.00	.000	.018	.000	.000	1271.28	130.50
.000932	80.	80.	80.	2	0	0	.00	544.32	674.82

*SECNO 7772.000
CHIMP CLSTA= 250.00 CELCH= 1271.29 BW= 100.00 STCHL= 91.70 STCHR= 1285.00
EXCAVATION DATA
AEX= 1779.4SQ-FT VEXR= .7K*CU-YD VEXT= 4.2K*CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3370 NORMAL BRIDGE. NRD= 4 MIN ELTRD= 1284.70 MAX ELLC= 1284.70

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

#PROF 1

CCHV= .100 CEHV= .300
#SECNO 7680.000
CHIMP CLSTA= 220.00 CELCH= 1271.20 BW= 100.00 STCHL= 92.20 STCHR= 1285.00
EXCAVATION DATA
AEX= 1192.0SQ-FT VEXR= .0K#CU-YD VEXT= .0K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.00

7680.00	11.24	1282.44	.00	1282.44	1282.89	.45	.00	.00	1285.00
8000.	0.	8000.	0.	0.	1487.	0.	0.	0.	1285.00
.00	.00	5.38	.00	.000	.018	.000	.000	1271.20	132.26
.000917	0.	0.	0.	0	0	0	.00	465.91	598.16

#SECNO 7760.000
CHIMP CLSTA= 250.00 CELCH= 1271.28 BW= 100.00 STCHL= 92.00 STCHR= 1285.00
EXCAVATION DATA
AEX= 1213.1SQ-FT VEXR= 3.6K#CU-YD VEXT= 3.6K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.00

7760.00	11.29	1282.57	.00	.00	1282.97	.40	.07	.00	1285.00
8000.	0.	8000.	0.	0.	1574.	0.	3.	1.	1285.00
.00	.00	5.08	.00	.000	.018	.000	.000	1271.28	130.50
.000932	80.	80.	80.	2	0	0	.00	544.32	674.82

#SECNO 7772.000
CHIMP CLSTA= 250.00 CELCH= 1271.29 BW= 100.00 STCHL= 91.70 STCHR= 1285.00
EXCAVATION DATA
AEX= 1779.4SQ-FT VEXR= .7K#CU-YD VEXT= 4.2K#CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3370 NORMAL BRIDGE. NRD= 4 MIN ELTRD= 1284.70 MAX ELLC= 1284.70

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.70 ELREA= 1285.00

7772.00	11.19	1282.48	.00	.00	1283.01	.53	.01	.04	1284.70
8000.	0.	8000.	0.	0.	1369.	0.	3.	1.	1285.00
.00	.00	5.84	.00	.000	.018	.000	.000	1271.29	177.62
.000262	12.	12.	12.	2	0	0	.00	144.76	322.38

*SECNO 8100.000
CHIMP CLSTA= 250.00 CELCH= 1271.64 BW= 100.00 STCHL= 92.50 STCHR= 1520.00
EXCAVATION DATA
AEX= 1078.6SQ-FT VEXR= 18.5K*CU-YD VEXT= 22.8K*CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.00

8100.00	11.32	1282.96	.00	.00	1283.17	.21	.13	.03	1285.00
8000.	0.	8000.	0.	0.	2180.	0.	17.	5.	1285.00
.03	.00	3.67	.00	.000	.018	.000	.000	1271.64	123.89
.000537	350.	350.	350.	2	0	0	.00	815.53	939.42

*SECNO 8600.000
CHIMP CLSTA= 250.00 CELCH= 1272.14 BW= 100.00 STCHL= 92.50 STCHR= 1680.00
EXCAVATION DATA
AEX= 1024.4SQ-FT VEXR= 19.5K*CU-YD VEXT= 42.2K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.20 ELREA= 1285.50

8600.00	11.10	1283.24	.00	.00	1283.42	.19	.25	.00	1285.20
8000.	0.	8000.	0.	0.	2303.	0.	43.	14.	1285.50
.07	.00	3.47	.00	.000	.018	.000	.000	1272.14	120.20
.000471	500.	500.	500.	2	0	0	.00	847.94	968.14

*SECNO 8700.000
CHIMP CLSTA= 250.00 CELCH= 1272.24 BW= 100.00 STCHL= 91.00 STCHR= 1570.00

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

EXCAVATION DATA
AEX= 1053.1SQ-FT VEXR= 3.8K*CU-YD VEXT= 46.1K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1283.80 ELREA= 1285.00

8700.00	11.04	1283.28	.00	.00	1283.48	.20	.05	.00	1283.80
8000.	0.	8000.	0.	0.	2248.	0.	48.	16.	1285.00
.08	.00	3.56	.00	.000	.018	.000	.000	1272.24	116.57
.000512	100.	100.	100.	0	0	0	.00	849.76	966.33

*SECNO 8920.000
CHIMP CLSTA= 250.00 CELCH= 1272.46 BW= 100.00 STCHL= 91.00 STCHR= 1700.00
EXCAVATION DATA
AEX= 993.0SQ-FT VEXR= 8.3K*CU-YD VEXT= 54.4K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.10 ELREA= 1286.00

8920.00	10.95	1283.42	.00	.00	1283.59	.17	.11	.00	1284.10
8000.	0.	8000.	0.	0.	2399.	0.	60.	21.	1286.00
.10	.00	3.33	.00	.000	.018	.000	.000	1272.46	97.13
.000484	220.	220.	220.	2	0	0	.00	960.34	1057.48

*SECNO 9140.000
CHIMP CLSTA= 250.00 CELCH= 1272.68 BW= 100.00 STCHL= 92.00 STCHR= 1700.00
EXCAVATION DATA
AEX= 977.2SQ-FT VEXR= 8.0K*CU-YD VEXT= 62.4K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.10 ELREA= 1286.00

9140.00	10.84	1283.53	.00	.00	1283.70	.17	.11	.00	1284.10
8000.	0.	8000.	0.	0.	2426.	0.	72.	26.	1286.00
.12	.00	3.30	.00	.000	.018	.000	.000	1272.68	98.94
.000483	220.	220.	220.	0	0	0	.00	985.29	1084.14

*SECNO 9360.000
CHIMP CLSTA= 250.00 CELCH= 1272.90 BW= 100.00 STCHL= 92.00 STCHR= 1650.00

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

EXCAVATION DATA
AEX= 998.3SQ-FT VEXR= 8.0K*CU-YD VEXT= 70.5K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.00 ELREA= 1286.00

9360.00	10.72	1283.62	.00	.00	1283.82	.20	.12	.01	1284.00
8000.	0.	8000.	0.	0.	2217.	0.	84.	31.	1286.00
.13	.00	3.61	.00	.000	.018	.000	.000	1272.90	96.67
.000597	220.	220.	220.	1	0	0	.00	922.55	1019.21

*SECNO 9500.000
CHIMP CLSTA= 250.00 CELCH= 1273.04 BW= 100.00 STCHL= 92.00 STCHR= 1490.00
EXCAVATION DATA
AEX= 1140.3SQ-FT VEXR= 5.5K*CU-YD VEXT= 76.0K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.00 ELREA= 1286.00

9500.00	10.64	1283.68	.00	.00	1283.93	.24	.09	.01	1284.00
8000.	0.	8000.	0.	0.	2017.	0.	91.	34.	1286.00
.14	.00	3.97	.00	.000	.018	.000	.000	1273.04	110.62
.000718	140.	140.	140.	1	0	0	.00	835.60	946.22

*SECNO 9600.000
CHIMP CLSTA= 250.00 CELCH= 1273.14 BW= 100.00 STCHL= .00 STCHR= 300.02
EXCAVATION DATA
AEX= 994.4SQ-FT VEXR= 4.0K*CU-YD VEXT= 80.0K*CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3470 ENCROACHMENT STATIONS= .0 290.0 TYPE= 1 TARGET= 289.999
ELENCL= 1286.00 ELENCR= 1290.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.10 ELREA= 1290.00

9600.00	10.61	1283.75	.00	.00	1283.96	.21	.03	.00	1287.10
8000.	0.	8000.	0.	0.	2167.	0.	96.	35.	1290.00
.15	.00	3.69	.00	.000	.018	.000	.000	1273.14	3.35
.000154	100.	100.	100.	0	0	0	.00	296.66	300.01

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 9770.000
CHIMP CLSTA= 250.00 CELCH= 1273.31 BW= 100.00 STCHL= .00 STCHR= 300.01
EXCAVATION DATA
AEX= 892.8SQ-FT VEXR= 5.9K#CU-YD VEXT= 85.9K#CU-YD

3470 ENCROACHMENT STATIONS= .0 310.0 TYPE= 1 TARGET= 309.999
ELENCL= 1285.00 ELENCR= 1290.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.10 ELREA= 1281.83

9770.00	10.46	1283.77	.00	.00	1283.99	.21	.03	.00	1287.10
8000.	0.	7984.	16.	0.	2154.	19.	104.	36.	1281.83
.16	.00	3.71	.85	.000	.018	.030	.000	1273.31	3.33
.000155	170.	170.	170.	2	0	0	.00	306.67	310.00

#SECNO 9800.000
CHIMP CLSTA= 250.00 CELCH= 1273.34 BW= 100.00 STCHL= .00 STCHR= 1800.00
EXCAVATION DATA
AEX= 19.1SQ-FT VEXR= .5K#CU-YD VEXT= 86.4K#CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1286.00

9800.00	10.66	1284.00	.00	.00	1284.01	.01	.00	.02	1287.00
8000.	0.	8000.	0.	0.	12350.	0.	109.	37.	1286.00
.18	.00	.65	.00	.000	.018	.000	.000	1273.34	3.05
.000005	30.	30.	30.	2	0	0	.00	1764.95	1768.00

#SECNO 9885.000
CHIMP CLSTA= 200.00 CELCH= 1280.00 BW= 115.00 STCHL= .00 STCHR= 1220.00
EXCAVATION DATA
AEX= 140.5SQ-FT VEXR= .3K#CU-YD VEXT= 86.7K#CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1286.00

9885.00	9.13	1283.83	.00	.00	1284.08	.25	.00	.07	1287.00
8000.	0.	8000.	0.	0.	1985.	0.	123.	39.	1286.00
.18	.00	4.03	.00	.000	.018	.000	.000	1274.70	3.22
.000628	85.	85.	85.	2	0	0	.00	721.33	724.55

#SECNO 9900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1286.80 ELREA= 1286.00

9900.00	9.00	1283.80	.00	.00	1284.14	.33	.03	.02	1286.80
8000.	0.	8000.	0.	0.	1730.	0.	125.	40.	1286.00
.18	.00	4.62	.00	.000	.018	.000	.000	1274.80	3.00
.000983	39.	39.	39.	2	0	0	.00	717.60	720.59

#SECNO 10000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1286.80 ELREA= 1286.00

10000.00	9.13	1283.93	.00	.00	1284.23	.30	.09	.00	1286.80
8000.	0.	8000.	0.	0.	1823.	0.	129.	41.	1286.00
.19	.00	4.39	.00	.000	.018	.000	.000	1274.80	2.87
.000855	100.	100.	100.	2	0	0	.00	736.91	739.78

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T1      DESIGN CONDITIONS  Q = 9600 CFS
T2      CORPS OF ENGINEERS DATUM
T3      ARIZONA CANAL INTERCEPTOR CHANNEL

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        0         3                                                           1282.60

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

        2         0        -1                                                   7
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

#PROF 2

CCHV= .100 CEHV= .300
#SECNO 7680.000
CHIMP CLSTA= 220.00 CELCH= 1271.20 BW= 100.00 STCHL= 92.20 STCHR= 1285.00
EXCAVATION DATA
AEX= 1192.0SQ-FT VEXR= .0K#CU-YD VEXT= .0K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.00

7680.00	11.40	1282.60	.00	1282.60	1283.18	.58	.00	.00	1285.00
9600.	0.	9600.	0.	0.	1570.	0.	0.	0.	1285.00
.00	.00	6.12	.00	.000	.018	.000	.000	1271.20	131.87
.001416	0.	0.	0.	0	0	0	.00	563.12	694.99

#SECNO 7760.000
CHIMP CLSTA= 250.00 CELCH= 1271.28 BW= 100.00 STCHL= 92.00 STCHR= 1285.00
EXCAVATION DATA
AEX= 1213.1SQ-FT VEXR= 3.6K#CU-YD VEXT= 3.6K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.00

7760.00	11.55	1282.83	.00	.00	1283.30	.47	.11	.01	1285.00
9600.	0.	9600.	0.	0.	1738.	0.	3.	1.	1285.00
.00	.00	5.52	.00	.000	.018	.000	.000	1271.28	129.68
.001356	80.	80.	80.	2	0	0	.00	704.15	833.83

#SECNO 7772.000
CHIMP CLSTA= 250.00 CELCH= 1271.29 BW= 100.00 STCHL= 91.70 STCHR= 1285.00
EXCAVATION DATA
AEX= 1779.4SQ-FT VEXR= .7K#CU-YD VEXT= 4.2K#CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3370 NORMAL BRIDGE. NRD= 4 MIN ELTRD= 1284.70 MAX ELLC= 1284.70

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.70 ELREA= 1285.00

7772.00	11.36	1282.65	.00	.00	1283.39	.74	.01	.08	1284.70
9600.	0.	9600.	0.	0.	1394.	0.	3.	1.	1285.00
.00	.00	6.89	.00	.000	.018	.000	.000	1271.29	177.28
.000358	12.	12.	12.	2	0	0	.00	145.44	322.72

#SECND 8100.000
CHIMP CLSTA= 250.00 CELCH= 1271.64 BW= 100.00 STCHL= 92.50 STCHR= 1520.00
EXCAVATION DATA
AEX= 1078.6SQ-FT VEXR= 18.5K$CU-YD VEXT= 22.8K$CU-YD

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.00

8100.00	11.73	1283.37	.00	.00	1283.59	.22	.15	.05	1285.00
9600.	0.	9600.	0.	0.	2548.	0.	19.	6.	1285.00
.03	.00	3.77	.00	.000	.018	.000	.000	1271.64	123.50
.000557	350.	350.	350.	2	0	0	.00	941.56	1065.06

#SECNO 8600.000
CHIMP CLSTA= 250.00 CELCH= 1272.14 BW= 100.00 STCHL= 92.50 STCHR= 1680.00
EXCAVATION DATA
AEX= 1024.4SQ-FT VEXR= 19.5K$CU-YD VEXT= 42.2K$CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.20 ELREA= 1285.50

8600.00	11.52	1283.66	.00	.00	1283.86	.20	.26	.00	1285.20
9600.	0.	9600.	0.	0.	2688.	0.	49.	17.	1285.50
.07	.00	3.57	.00	.000	.018	.000	.000	1272.14	119.19
.000489	500.	500.	500.	2	0	0	.00	977.27	1096.46

#SECNO 8700.000
CHIMP CLSTA= 250.00 CELCH= 1272.24 BW= 100.00 STCHL= 91.00 STCHR= 1570.00

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

EXCAVATION DATA
AEX= 1053.1SQ-FT VEXR= 3.8K*CU-YD VEXT= 46.1K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.80 ELREA= 1285.00

8700.00	11.46	1283.71	.00	.00	1283.91	.21	.05	.00	1283.80
9600.	0.	9600.	0.	0.	2639.	0.	55.	19.	1285.00
.08	.00	3.64	.00	.000	.018	.000	.000	1272.24	102.04
.000539	100.	100.	100.	0	0	0	.00	1003.38	1105.43

*SECNO 8920.000
CHIMP CLSTA= 250.00 CELCH= 1272.46 BW= 100.00 STCHL= 91.00 STCHR= 1700.00
EXCAVATION DATA
AEX= 993.0SQ-FT VEXR= 8.3K*CU-YD VEXT= 54.4K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.10 ELREA= 1286.00

8920.00	11.38	1283.84	.00	.00	1284.02	.18	.11	.00	1284.10
9600.	0.	9600.	0.	0.	2834.	0.	69.	24.	1286.00
.09	.00	3.39	.00	.000	.018	.000	.000	1272.46	93.29
.000461	220.	220.	220.	2	0	0	.00	1068.86	1162.14

*SECNO 9140.000
CHIMP CLSTA= 250.00 CELCH= 1272.68 BW= 100.00 STCHL= 92.00 STCHR= 1700.00
EXCAVATION DATA
AEX= 977.2SQ-FT VEXR= 8.0K*CU-YD VEXT= 62.4K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.10 ELREA= 1286.00

9140.00	11.27	1283.95	.00	.00	1284.12	.17	.10	.00	1284.10
9600.	0.	9600.	0.	0.	2873.	0.	84.	30.	1286.00
.11	.00	3.34	.00	.000	.018	.000	.000	1272.68	93.73
.000455	220.	220.	220.	0	0	0	.00	1095.25	1188.98

*SECNO 9360.000
CHIMP CLSTA= 250.00 CELCH= 1272.90 BW= 100.00 STCHL= 92.00 STCHR= 1650.00

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

EXCAVATION DATA
AEX= 998.3SQ-FT VEXR= 8.0K*CU-YD VEXT= 70.5K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.00 ELREA= 1286.00

9360.00	11.18	1284.08	.00	.00	1284.21	.13	.08	.00	1284.00
9600.	2660.	6940.	0.	754.	2661.	0.	100.	35.	1286.00
.13	3.53	2.61	.00	.030	.018	.000	.000	1272.90	2.95
.000286	220.	220.	220.	2	0	0	.00	1127.08	1130.03

*SECNO 9500.000
CHIMP CLSTA= 250.00 CELCH= 1273.04 BW= 100.00 STCHL= 92.00 STCHR= 1490.00
EXCAVATION DATA
AEX= 1140.3SQ-FT VEXR= 5.5K*CU-YD VEXT= 76.0K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.00 ELREA= 1286.00

9500.00	11.06	1284.10	.00	.00	1284.26	.15	.04	.01	1284.00
9600.	2922.	6678.	0.	756.	2390.	0.	110.	39.	1286.00
.15	3.86	2.79	.00	.030	.018	.000	.000	1273.04	2.92
.000342	140.	140.	140.	2	0	0	.00	1049.80	1052.72

*SECNO 9600.000
CHIMP CLSTA= 250.00 CELCH= 1273.14 BW= 100.00 STCHL= .00 STCHR= 300.02
EXCAVATION DATA
AEX= 994.4SQ-FT VEXR= 4.0K*CU-YD VEXT= 80.0K*CU-YD

3470 ENCROACHMENT STATIONS= .0 290.0 TYPE= 1 TARGET= 289.999
ELENCL= 1286.00 ELENCR= 1290.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.10 ELREA= 1290.00

9600.00	10.90	1284.04	.00	.00	1284.32	.28	.03	.04	1287.10
9600.	0.	9600.	0.	0.	2253.	0.	116.	40.	1290.00
.15	.00	4.26	.00	.000	.018	.000	.000	1273.14	3.06
.000195	100.	100.	100.	2	0	0	.00	296.95	300.01

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 9770.000
CHIMP CLSTA= 250.00 CELCH= 1273.31 BW= 100.00 STCHL= .00 STCHR= 300.01
EXCAVATION DATA
AEX= 892.85Q-FT VEXR= 5.9K#CU-YD VEXT= 85.9K#CU-YD

3470 ENCROACHMENT STATIONS= .0 310.0 TYPE= 1 TARGET= 309.999
ELENCL= 1285.00 ELENCR= 1290.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.10 ELREA= 1281.83

9770.00	10.76	1284.07	.00	.00	1284.35	.28	.03	.00	1287.10
9600.	0.	9577.	23.	0.	2245.	22.	125.	41.	1281.83
.16	.00	4.27	1.03	.000	.018	.030	.000	1273.31	3.02
.000194	170.	170.	170.	1	0	0	.00	306.98	310.00

#SECNO 9800.000
CHIMP CLSTA= 250.00 CELCH= 1273.34 BW= 100.00 STCHL= .00 STCHR= 1800.00
EXCAVATION DATA
AEX= 19.1SQ-FT VEXR= .5K#CU-YD VEXT= 86.4K#CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1286.00

9800.00	11.03	1284.37	.00	.00	1284.38	.01	.00	.03	1287.00
9600.	0.	9600.	0.	0.	13011.	0.	130.	42.	1286.00
.18	.00	.74	.00	.000	.018	.000	.000	1273.34	2.67
.000006	30.	30.	30.	2	0	0	.00	1771.32	1773.98

#SECNO 9885.000
CHIMP CLSTA= 200.00 CELCH= 1280.00 BW= 115.00 STCHL= .00 STCHR= 1220.00
EXCAVATION DATA
AEX= 140.5SQ-FT VEXR= .3K#CU-YD VEXT= 86.7K#CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.00 ELREA= 1286.00

9885.00	9.48	1284.18	.00	.00	1284.47	.28	.00	.08	1287.00
9600.	0.	9600.	0.	0.	2257.	0.	145.	45.	1286.00
.18	.00	4.25	.00	.000	.018	.000	.000	1274.70	2.86
.000711	85.	85.	85.	2	0	0	.00	830.69	833.55

#SECND 9900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.80 ELREA= 1286.00

9900.00	9.36	1284.16	.00	.00	1284.52	.36	.03	.02	1286.80
9600.	0.	9600.	0.	0.	2000.	0.	147.	45.	1286.00
.18	.00	4.80	.00	.000	.018	.000	.000	1274.80	2.64
.001004	39.	39.	39.	2	0	0	.00	798.19	800.82

#SECND 10000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1286.80 ELREA= 1286.00

10000.00	9.50	1284.30	.00	.00	1284.62	.32	.09	.00	1286.80
9600.	0.	9600.	0.	0.	2111.	0.	152.	47.	1286.00
.19	.00	4.55	.00	.000	.018	.000	.000	1274.80	2.50
.000898	100.	100.	100.	2	0	0	.00	840.21	842.71

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T1      DESIGN CONDITIONS  Q = 9830 CFS
T2      CORPS OF ENGINEERS DATUM
T3      ARIZONA CANAL INTERCEPTOR CHANNEL

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        0         4                                                           1282.80

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       15         0        -1                                                    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

#PROF 3

CCHV= .100 CEHV= .300
#SECNO 7680.000
CHIMP CLSTA= 220.00 CELCH= 1271.20 BW= 100.00 STCHL= 92.20 STCHR= 1285.00
EXCAVATION DATA
AEX= 1192.0SQ-FT VEXR= .0K#CU-YD VEXT= .0K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.00

7680.00	11.60	1282.80	.00	1282.80	1283.32	.52	.00	.00	1285.00
9830.	0.	9830.	0.	0.	1694.	0.	0.	0.	1285.00
.00	.00	5.80	.00	.000	.018	.000	.000	1271.20	131.38
.001490	0.	0.	0.	0	0	0	.00	684.65	816.03

#SECNO 7760.000
CHIMP CLSTA= 250.00 CELCH= 1271.28 BW= 100.00 STCHL= 92.00 STCHR= 1285.00
EXCAVATION DATA
AEX= 1213.1SQ-FT VEXR= 3.6K#CU-YD VEXT= 3.6K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.00

7760.00	11.74	1283.02	.00	.00	1283.44	.42	.11	.01	1285.00
9830.	0.	9830.	0.	0.	1887.	0.	3.	1.	1285.00
.00	.00	5.21	.00	.000	.018	.000	.000	1271.28	129.06
.001299	80.	80.	80.	2	0	0	.00	809.54	938.61

#SECNO 7772.000
CHIMP CLSTA= 250.00 CELCH= 1271.29 BW= 100.00 STCHL= 91.70 STCHR= 1285.00
EXCAVATION DATA
AEX= 1779.4SQ-FT VEXR= .7K#CU-YD VEXT= 4.2K#CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3370 NORMAL BRIDGE. NRD= 4 MIN ELTRD= 1284.70 MAX ELLC= 1284.70

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.70 ELREA= 1285.00

7772.00	11.51	1282.80	.00	.00	1283.55	.75	.01	.10	1284.70
9830.	0.	9830.	0.	0.	1416.	0.	4.	2.	1285.00
.00	.00	6.94	.00	.000	.018	.000	.000	1271.29	176.98
.000359	12.	12.	12.	2	0	0	.00	146.04	323.02

#SECNO 8100.000
CHIMP CLSTA= 250.00 CELCH= 1271.64 BW= 100.00 STCHL= 92.50 STCHR= 1520.00
EXCAVATION DATA
AEX= 1078.650-FT VEXR= 18.5K#CU-YD VEXT= 22.8K#CU-YD

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.00 ELREA= 1285.00

8100.00	11.91	1283.55	.00	.00	1283.75	.20	.15	.05	1285.00
9830.	0.	9830.	0.	0.	2706.	0.	20.	6.	1285.00
.03	.00	3.63	.00	.000	.018	.000	.000	1271.64	123.35
.000511	350.	350.	350.	3	0	0	.00	990.97	1114.32

#SECNO 8600.000
CHIMP CLSTA= 250.00 CELCH= 1272.14 BW= 100.00 STCHL= 92.50 STCHR= 1680.00
EXCAVATION DATA
AEX= 1024.450-FT VEXR= 19.5K#CU-YD VEXT= 42.2K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1285.20 ELREA= 1285.50

8600.00	11.67	1283.81	.00	.00	1284.00	.19	.24	.00	1285.20
9830.	0.	9830.	0.	0.	2838.	0.	52.	18.	1285.50
.07	.00	3.46	.00	.000	.018	.000	.000	1272.14	118.84
.000455	500.	500.	500.	2	0	0	.00	1023.09	1141.92

#SECNO 8700.000
CHIMP CLSTA= 250.00 CELCH= 1272.24 BW= 100.00 STCHL= 91.00 STCHR= 1570.00

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

EXCAVATION DATA
AEX= 1053.1SQ-FT VEXR= 3.8K*CU-YD VEXT= 46.1K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1283.80 ELREA= 1285.00

8700.00	11.67	1283.91	.00	.00	1284.04	.12	.03	.01	1283.80
9830.	2601.	7229.	0.	765.	2851.	0.	60.	20.	1285.00
.08	3.40	2.54	.00	.030	.018	.000	.000	1272.24	1.89
.000260	100.	100.	100.	2	0	0	.00	1170.25	1172.13

*SECNO 8920.000
CHIMP CLSTA= 250.00 CELCH= 1272.46 BW= 100.00 STCHL= 91.00 STCHR= 1700.00
EXCAVATION DATA
AEX= 993.0SQ-FT VEXR= 8.3K*CU-YD VEXT= 54.4K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.10 ELREA= 1286.00

8920.00	11.49	1283.95	.00	.00	1284.12	.17	.07	.02	1284.10
9830.	0.	9830.	0.	0.	2950.	0.	76.	26.	1286.00
.10	.00	3.33	.00	.000	.018	.000	.000	1272.46	92.33
.000437	220.	220.	220.	2	0	0	.00	1095.91	1188.23

*SECNO 9140.000
CHIMP CLSTA= 250.00 CELCH= 1272.68 BW= 100.00 STCHL= 92.00 STCHR= 1700.00
EXCAVATION DATA
AEX= 977.2SQ-FT VEXR= 8.0K*CU-YD VEXT= 62.4K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.10 ELREA= 1286.00

9140.00	11.37	1284.05	.00	.00	1284.22	.17	.10	.00	1284.10
9830.	0.	9830.	0.	0.	2979.	0.	91.	31.	1286.00
.12	.00	3.30	.00	.000	.018	.000	.000	1272.68	92.59
.000430	220.	220.	220.	2	0	0	.00	1108.94	1201.52

*SECNO 9360.000
CHIMP CLSTA= 250.00 CELCH= 1272.90 BW= 100.00 STCHL= 92.00 STCHR= 1650.00

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

EXCAVATION DATA
AEX= 998.3SQ-FT VEXR= 8.0K*CU-YD VEXT= 70.5K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.00 ELREA= 1286.00

9360.00	11.27	1284.17	.00	.00	1284.30	.13	.07	.00	1284.00
9830.	2655.	7175.	0.	762.	2759.	0.	108.	37.	1286.00
.14	3.48	2.60	.00	.030	.018	.000	.000	1272.90	2.85
.000275	220.	220.	220.	2	0	0	.00	1139.44	1142.30

*SECNO 9500.000
CHIMP CLSTA= 250.00 CELCH= 1273.04 BW= 100.00 STCHL= 92.00 STCHR= 1490.00
EXCAVATION DATA
AEX= 1140.3SQ-FT VEXR= 5.5K*CU-YD VEXT= 76.0K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.00 ELREA= 1286.00

9500.00	11.15	1284.20	.00	.00	1284.35	.15	.04	.01	1284.00
9830.	2929.	6901.	0.	765.	2480.	0.	118.	41.	1286.00
.15	3.83	2.78	.00	.030	.018	.000	.000	1273.04	2.83
.000332	140.	140.	140.	2	0	0	.00	1070.30	1073.13

*SECNO 9600.000
CHIMP CLSTA= 250.00 CELCH= 1273.14 BW= 100.00 STCHL= .00 STCHR= 300.02
EXCAVATION DATA
AEX= 994.4SQ-FT VEXR= 4.0K*CU-YD VEXT= 80.0K*CU-YD

3470 ENCROACHMENT STATIONS= .0 290.0 TYPE= 1 TARGET= 289.999
ELENCL= 1286.00 ELENCR= 1290.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.10 ELREA= 1290.00

9600.00	10.98	1284.13	.00	.00	1284.41	.29	.03	.04	1287.10
9830.	0.	9830.	0.	0.	2279.	0.	125.	42.	1290.00
.16	.00	4.31	.00	.000	.018	.000	.000	1273.14	2.97
.000197	100.	100.	100.	2	0	0	.00	297.04	300.01

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 9770.000
CHIMP CLSTA= 250.00 CELCH= 1273.31 BW= 100.00 STCHL= .00 STCHR= 300.01
EXCAVATION DATA
AEX= 892.8SQ-FT VEXR= 5.9K#CU-YD VEXT= 85.9K#CU-YD

3470 ENCROACHMENT STATIONS= .0 310.0 TYPE= 1 TARGET= 309.999
ELENCL= 1285.00 ELENCR= 1290.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.10 ELREA= 1281.83

9770.00	10.85	1284.16	.00	.00	1284.45	.29	.03	.00	1287.10
9830.	0.	9806.	24.	0.	2271.	23.	134.	43.	1281.83
.17	.00	4.32	1.06	.000	.018	.030	.000	1273.31	2.93
.000196	170.	170.	170.	1	0	0	.00	307.06	310.00

#SECNO 9800.000
CHIMP CLSTA= 250.00 CELCH= 1273.34 BW= 100.00 STCHL= .00 STCHR= 1800.00
EXCAVATION DATA
AEX= 19.1SQ-FT VEXR= .5K#CU-YD VEXT= 86.4K#CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1286.00

9800.00	11.13	1284.47	.00	.00	1284.48	.01	.00	.03	1287.00
9830.	0.	9830.	0.	0.	13177.	0.	139.	44.	1286.00
.18	.00	.75	.00	.000	.018	.000	.000	1273.34	2.57
.000006	30.	30.	30.	2	0	0	.00	1772.92	1775.49

#SECNO 9885.000
CHIMP CLSTA= 200.00 CELCH= 1280.00 BW= 115.00 STCHL= .00 STCHR= 1220.00
EXCAVATION DATA
AEX= 140.5SQ-FT VEXR= .3K#CU-YD VEXT= 86.7K#CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1287.00 ELREA= 1286.00

9885.00	9.58	1284.28	.00	.00	1284.56	.27	.00	.08	1287.00
9830.	0.	9830.	0.	0.	2341.	0.	154.	47.	1286.00
.19	.00	4.20	.00	.000	.018	.000	.000	1274.70	2.76
.000707	85.	85.	85.	2	0	0	.00	875.40	878.16

#SECNO 9900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1286.80 ELREA= 1286.00

9900.00	9.47	1284.27	.00	.00	1284.61	.35	.03	.02	1286.80
9830.	0.	9830.	0.	0.	2083.	0.	156.	47.	1286.00
.19	.00	4.72	.00	.000	.018	.000	.000	1274.80	2.53
.000968	39.	39.	39.	2	0	0	.00	829.85	832.38

#SECNO 10000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1286.80 ELREA= 1286.00

10000.00	9.59	1284.39	.00	.00	1284.71	.31	.09	.00	1286.80
9830.	0.	9830.	0.	0.	2193.	0.	161.	49.	1286.00
.20	.00	4.48	.00	.000	.018	.000	.000	1274.80	2.41
.000869	100.	100.	100.	2	0	0	.00	869.94	872.34

THIS RUN EXECUTED 8/ 3/90 11:35: 1

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HEC2 RELEASE DATED SEPT 88

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

ARIZONA CANAL INTERCEPTO

SUMMARY PRINTOUT TABLE 120

	SECNO	CWSEL	EG	VCH	10*KS	DEPTH	TOPWID	CLSTA	BW	STCHL	XLBEL	STCHR	RBEL
	7680.000	1282.44	1282.89	5.38	9.17	11.24	465.91	220.00	100.00	92.20	1285.00	1285.00	1285.00
	7680.000	1282.60	1283.18	6.12	14.16	11.40	563.12	220.00	100.00	92.20	1285.00	1285.00	1285.00
	7680.000	1282.80	1283.32	5.80	14.90	11.60	684.65	220.00	100.00	92.20	1285.00	1285.00	1285.00
	7760.000	1282.57	1282.97	5.08	9.32	11.29	544.32	250.00	100.00	92.00	1285.00	1285.00	1285.00
	7760.000	1282.83	1283.30	5.52	13.56	11.55	704.15	250.00	100.00	92.00	1285.00	1285.00	1285.00
	7760.000	1283.02	1283.44	5.21	12.99	11.74	809.54	250.00	100.00	92.00	1285.00	1285.00	1285.00
*	7772.000	1282.48	1283.01	5.84	2.62	11.19	144.76	250.00	100.00	91.70	1284.70	1285.00	1285.00
*	7772.000	1282.65	1283.39	6.89	3.58	11.36	145.44	250.00	100.00	91.70	1284.70	1285.00	1285.00
*	7772.000	1282.80	1283.55	6.94	3.59	11.51	146.04	250.00	100.00	91.70	1284.70	1285.00	1285.00
*	8100.000	1282.96	1283.17	3.67	5.37	11.32	815.53	250.00	100.00	92.50	1285.00	1520.00	1285.00
	8100.000	1283.37	1283.59	3.77	5.57	11.73	941.56	250.00	100.00	92.50	1285.00	1520.00	1285.00
	8100.000	1283.55	1283.75	3.63	5.11	11.91	990.97	250.00	100.00	92.50	1285.00	1520.00	1285.00
	8600.000	1283.24	1283.42	3.47	4.71	11.10	847.94	250.00	100.00	92.50	1285.20	1680.00	1285.50
	8600.000	1283.66	1283.86	3.57	4.89	11.52	977.27	250.00	100.00	92.50	1285.20	1680.00	1285.50
	8600.000	1283.81	1284.00	3.46	4.55	11.67	1023.09	250.00	100.00	92.50	1285.20	1680.00	1285.50
	8700.000	1283.28	1283.48	3.56	5.12	11.04	849.76	250.00	100.00	91.00	1283.80	1570.00	1285.00
	8700.000	1283.71	1283.91	3.64	5.39	11.46	1003.38	250.00	100.00	91.00	1283.80	1570.00	1285.00
	8700.000	1283.91	1284.04	2.54	2.60	11.67	1170.25	250.00	100.00	91.00	1283.80	1570.00	1285.00
	8920.000	1283.42	1283.59	3.33	4.84	10.95	960.34	250.00	100.00	91.00	1284.10	1700.00	1286.00
	8920.000	1283.84	1284.02	3.39	4.61	11.38	1068.86	250.00	100.00	91.00	1284.10	1700.00	1286.00
	8920.000	1283.95	1284.12	3.33	4.37	11.49	1095.91	250.00	100.00	91.00	1284.10	1700.00	1286.00
	9140.000	1283.53	1283.70	3.30	4.83	10.84	985.29	250.00	100.00	92.00	1284.10	1700.00	1286.00
	9140.000	1283.95	1284.12	3.34	4.55	11.27	1095.25	250.00	100.00	92.00	1284.10	1700.00	1286.00
	9140.000	1284.05	1284.22	3.30	4.30	11.37	1108.94	250.00	100.00	92.00	1284.10	1700.00	1286.00

	SECNO	CWSEL	EG	VCH	10*KS	DEPTH	TOPWID	CLSTA	BW	STCHL	XLBEL	STCHR	RBEL
	9360.000	1283.62	1283.82	3.61	5.97	10.72	922.55	250.00	100.00	92.00	1284.00	1650.00	1286.00
	9360.000	1284.08	1284.21	2.61	2.86	11.18	1127.08	250.00	100.00	92.00	1284.00	1650.00	1286.00
	9360.000	1284.17	1284.30	2.60	2.75	11.27	1139.44	250.00	100.00	92.00	1284.00	1650.00	1286.00
	9500.000	1283.68	1283.93	3.97	7.18	10.64	835.60	250.00	100.00	92.00	1284.00	1490.00	1286.00
	9500.000	1284.10	1284.26	2.79	3.42	11.06	1049.80	250.00	100.00	92.00	1284.00	1490.00	1286.00
	9500.000	1284.20	1284.35	2.78	3.32	11.15	1070.30	250.00	100.00	92.00	1284.00	1490.00	1286.00
*	9600.000	1283.75	1283.96	3.69	1.54	10.61	296.66	250.00	100.00	.00	1287.10	300.02	1290.00
	9600.000	1284.04	1284.32	4.26	1.95	10.90	296.95	250.00	100.00	.00	1287.10	300.02	1290.00
	9600.000	1284.13	1284.41	4.31	1.97	10.98	297.04	250.00	100.00	.00	1287.10	300.02	1290.00
	9770.000	1283.77	1283.99	3.71	1.55	10.46	306.67	250.00	100.00	.00	1287.10	300.01	1281.83
	9770.000	1284.07	1284.35	4.27	1.94	10.76	306.98	250.00	100.00	.00	1287.10	300.01	1281.83
	9770.000	1284.16	1284.45	4.32	1.96	10.85	307.06	250.00	100.00	.00	1287.10	300.01	1281.83
*	9800.000	1284.00	1284.01	.65	.05	10.66	1764.95	250.00	100.00	.00	1287.00	1800.00	1286.00
*	9800.000	1284.37	1284.38	.74	.06	11.03	1771.32	250.00	100.00	.00	1287.00	1800.00	1286.00
*	9800.000	1284.47	1284.48	.75	.06	11.13	1772.92	250.00	100.00	.00	1287.00	1800.00	1286.00
*	9885.000	1283.83	1284.08	4.03	6.28	9.13	721.33	200.00	115.00	.00	1287.00	1220.00	1286.00
*	9885.000	1284.18	1284.47	4.25	7.11	9.48	830.69	200.00	115.00	.00	1287.00	1220.00	1286.00
*	9885.000	1284.28	1284.56	4.20	7.07	9.58	875.40	200.00	115.00	.00	1287.00	1220.00	1286.00
	9900.000	1283.80	1284.14	4.62	9.83	9.00	717.60	.00	.01	.00	1286.80	1220.00	1286.00
	9900.000	1284.16	1284.52	4.80	10.04	9.36	798.19	.00	.01	.00	1286.80	1220.00	1286.00
	9900.000	1284.27	1284.61	4.72	9.68	9.47	829.85	.00	.01	.00	1286.80	1220.00	1286.00
	10000.000	1283.93	1284.23	4.39	8.55	9.13	736.91	.00	.01	.00	1286.80	1220.00	1286.00
	10000.000	1284.30	1284.62	4.55	8.98	9.50	840.21	.00	.01	.00	1286.80	1220.00	1286.00
	10000.000	1284.39	1284.71	4.48	8.69	9.59	869.94	.00	.01	.00	1286.80	1220.00	1286.00

ARIZONA CANAL INTERCEPTO

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	7680.000	.00	.00	.00	1271.20	8000.00	1282.44	.00	1282.89	9.17	5.38	1487.16	2642.53
	7680.000	.00	.00	.00	1271.20	9600.00	1282.60	.00	1283.18	14.16	6.12	1569.50	2550.83
	7680.000	.00	.00	.00	1271.20	9830.00	1282.80	.00	1283.32	14.90	5.80	1694.32	2546.46
	7760.000	80.00	.00	.00	1271.28	8000.00	1282.57	.00	1282.97	9.32	5.08	1573.69	2620.38
	7760.000	80.00	.00	.00	1271.28	9600.00	1282.83	.00	1283.30	13.56	5.52	1737.75	2607.31
	7760.000	80.00	.00	.00	1271.28	9830.00	1283.02	.00	1283.44	12.99	5.21	1887.31	2727.90
*	7772.000	12.00	1284.70	1284.70	1271.29	8000.00	1282.48	.00	1283.01	2.62	5.84	1369.49	4938.15
*	7772.000	12.00	1284.70	1284.70	1271.29	9600.00	1282.65	.00	1283.39	3.58	6.89	1394.24	5070.59
*	7772.000	12.00	1284.70	1284.70	1271.29	9830.00	1282.80	.00	1283.55	3.59	6.94	1415.93	5187.47
*	8100.000	350.00	.00	.00	1271.64	8000.00	1282.96	.00	1283.17	5.37	3.67	2180.14	3451.96
	8100.000	350.00	.00	.00	1271.64	9600.00	1283.37	.00	1283.59	5.57	3.77	2547.79	4068.69
	8100.000	350.00	.00	.00	1271.64	9830.00	1283.55	.00	1283.75	5.11	3.63	2706.44	4349.44
	8600.000	500.00	.00	.00	1272.14	8000.00	1283.24	.00	1283.42	4.71	3.47	2302.91	3687.57
	8600.000	500.00	.00	.00	1272.14	9600.00	1283.66	.00	1283.86	4.89	3.57	2688.14	4342.92
	8600.000	500.00	.00	.00	1272.14	9830.00	1283.81	.00	1284.00	4.55	3.46	2837.70	4610.65
	8700.000	100.00	.00	.00	1272.24	8000.00	1283.28	.00	1283.48	5.12	3.56	2247.74	3536.22
	8700.000	100.00	.00	.00	1272.24	9600.00	1283.71	.00	1283.91	5.39	3.64	2638.53	4136.88
	8700.000	100.00	.00	.00	1272.24	9830.00	1283.91	.00	1284.04	2.60	2.54	3616.62	6091.27
	8920.000	220.00	.00	.00	1272.46	8000.00	1283.42	.00	1283.59	4.84	3.33	2398.92	3635.65
	8920.000	220.00	.00	.00	1272.46	9600.00	1283.84	.00	1284.02	4.61	3.39	2834.14	4470.79
	8920.000	220.00	.00	.00	1272.46	9830.00	1283.95	.00	1284.12	4.37	3.33	2949.88	4700.53
	9140.000	220.00	.00	.00	1272.68	8000.00	1283.53	.00	1283.70	4.83	3.30	2425.90	3641.69
	9140.000	220.00	.00	.00	1272.68	9600.00	1283.95	.00	1284.12	4.55	3.34	2872.89	4499.85
	9140.000	220.00	.00	.00	1272.68	9830.00	1284.05	.00	1284.22	4.30	3.30	2978.88	4740.65
	9360.000	220.00	.00	.00	1272.90	8000.00	1283.62	.00	1283.82	5.97	3.61	2216.78	3273.57
	9360.000	220.00	.00	.00	1272.90	9600.00	1284.08	.00	1284.21	2.86	2.61	3414.59	5675.75
	9360.000	220.00	.00	.00	1272.90	9830.00	1284.17	.00	1284.30	2.75	2.60	3521.53	5925.76
	9500.000	140.00	.00	.00	1273.04	8000.00	1283.68	.00	1283.93	7.18	3.97	2016.75	2985.03
	9500.000	140.00	.00	.00	1273.04	9600.00	1284.10	.00	1284.26	3.42	2.79	3146.36	5191.68
	9500.000	140.00	.00	.00	1273.04	9830.00	1284.20	.00	1284.35	3.32	2.78	3244.70	5395.28
*	9600.000	100.00	.00	.00	1273.14	8000.00	1283.75	.00	1283.96	1.54	3.69	2166.95	6451.64
	9600.000	100.00	.00	.00	1273.14	9600.00	1284.04	.00	1284.32	1.95	4.26	2253.40	6876.11
	9600.000	100.00	.00	.00	1273.14	9830.00	1284.13	.00	1284.41	1.97	4.31	2278.85	7002.98
	9770.000	170.00	.00	.00	1273.31	8000.00	1283.77	.00	1283.99	1.55	3.71	2173.52	6430.58
	9770.000	170.00	.00	.00	1273.31	9600.00	1284.07	.00	1284.35	1.94	4.27	2267.71	6886.44
	9770.000	170.00	.00	.00	1273.31	9830.00	1284.16	.00	1284.45	1.96	4.32	2294.02	7015.92

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	ES	10*KS	VCH	AREA	.01K
*	9800.000	30.00	.00	.00	1273.34	8000.00	1284.00	.00	1284.01	.05	.65	12349.78	37186.43
*	9800.000	30.00	.00	.00	1273.34	9600.00	1284.37	.00	1284.38	.06	.74	13010.88	40463.87
*	9800.000	30.00	.00	.00	1273.34	9830.00	1284.47	.00	1284.48	.06	.75	13177.45	41305.56
*	9885.000	85.00	.00	.00	1274.70	8000.00	1283.83	.00	1284.08	6.28	4.03	1985.48	3193.28
*	9885.000	85.00	.00	.00	1274.70	9600.00	1284.18	.00	1284.47	7.11	4.25	2256.50	3600.78
*	9885.000	85.00	.00	.00	1274.70	9830.00	1284.28	.00	1284.56	7.07	4.20	2341.06	3698.22
	9900.000	39.00	.00	.00	1274.80	8000.00	1283.80	.00	1284.14	9.83	4.62	1730.03	2551.69
	9900.000	39.00	.00	.00	1274.80	9600.00	1284.16	.00	1284.52	10.04	4.80	2000.29	3029.02
	9900.000	39.00	.00	.00	1274.80	9830.00	1284.27	.00	1284.61	9.68	4.72	2083.16	3158.67
	10000.000	100.00	.00	.00	1274.80	8000.00	1283.93	.00	1284.23	8.55	4.39	1823.07	2735.92
	10000.000	100.00	.00	.00	1274.80	9600.00	1284.30	.00	1284.62	8.98	4.55	2110.99	3202.89
	10000.000	100.00	.00	.00	1274.80	9830.00	1284.39	.00	1284.71	8.69	4.48	2192.72	3334.57

ARIZONA CANAL INTERCEPTO

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	7680.000	8000.00	1282.44	.00	.00	.00	465.91	.00
	7680.000	9600.00	1282.60	.16	.00	.00	563.12	.00
	7680.000	9830.00	1282.80	.20	.00	.00	684.65	.00
	7760.000	8000.00	1282.57	.00	.13	.00	544.32	80.00
	7760.000	9600.00	1282.83	.26	.23	.00	704.15	80.00
	7760.000	9830.00	1283.02	.19	.22	.00	809.54	80.00
*	7772.000	8000.00	1282.48	.00	-.08	.00	144.76	12.00
*	7772.000	9600.00	1282.65	.17	-.18	.00	145.44	12.00
*	7772.000	9830.00	1282.80	.15	-.22	.00	146.04	12.00
*	8100.000	8000.00	1282.96	.00	.48	.00	815.53	350.00
	8100.000	9600.00	1283.37	.41	.72	.00	941.56	350.00
	8100.000	9830.00	1283.55	.17	.75	.00	990.97	350.00
	8600.000	8000.00	1283.24	.00	.28	.00	847.94	500.00
	8600.000	9600.00	1283.66	.42	.29	.00	977.27	500.00
	8600.000	9830.00	1283.81	.15	.26	.00	1023.09	500.00
	8700.000	8000.00	1283.28	.00	.04	.00	849.76	100.00
	8700.000	9600.00	1283.71	.43	.05	.00	1003.38	100.00
	8700.000	9830.00	1283.91	.21	.11	.00	1170.25	100.00
	8920.000	8000.00	1283.42	.00	.14	.00	960.34	220.00
	8920.000	9600.00	1283.84	.43	.14	.00	1068.86	220.00
	8920.000	9830.00	1283.95	.11	.04	.00	1095.91	220.00
	9140.000	8000.00	1283.53	.00	.11	.00	985.29	220.00
	9140.000	9600.00	1283.95	.42	.11	.00	1095.25	220.00
	9140.000	9830.00	1284.05	.10	.10	.00	1108.94	220.00
	9360.000	8000.00	1283.62	.00	.09	.00	922.55	220.00
	9360.000	9600.00	1284.08	.46	.13	.00	1127.08	220.00
	9360.000	9830.00	1284.17	.09	.12	.00	1139.44	220.00
	9500.000	8000.00	1283.68	.00	.06	.00	835.60	140.00
	9500.000	9600.00	1284.10	.42	.03	.00	1049.80	140.00
	9500.000	9830.00	1284.20	.09	.02	.00	1070.30	140.00
*	9600.000	8000.00	1283.75	.00	.06	.00	296.66	100.00
	9600.000	9600.00	1284.04	.29	-.06	.00	296.95	100.00
	9600.000	9830.00	1284.13	.09	-.07	.00	297.04	100.00
	9770.000	8000.00	1283.77	.00	.03	.00	306.67	170.00
	9770.000	9600.00	1284.07	.30	.03	.00	306.98	170.00
	9770.000	9830.00	1284.16	.09	.03	.00	307.06	170.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	9800.000	8000.00	1284.00	.00	.23	.00	1764.95	30.00
*	9800.000	9600.00	1284.37	.37	.30	.00	1771.32	30.00
*	9800.000	9830.00	1284.47	.09	.31	.00	1772.92	30.00
*	9885.000	8000.00	1283.83	.00	-.17	.00	721.33	85.00
*	9885.000	9600.00	1284.18	.36	-.19	.00	830.69	85.00
*	9885.000	9830.00	1284.28	.10	-.18	.00	875.40	85.00
	9900.000	8000.00	1283.80	.00	-.03	.00	717.60	39.00
	9900.000	9600.00	1284.16	.36	-.02	.00	798.19	39.00
	9900.000	9830.00	1284.27	.10	-.02	.00	829.85	39.00
	10000.000	8000.00	1283.93	.00	.13	.00	736.91	100.00
	10000.000	9600.00	1284.30	.37	.14	.00	840.21	100.00
	10000.000	9830.00	1284.39	.10	.13	.00	869.94	100.00

SUMMARY OF ERRORS AND SPECIAL NOTES

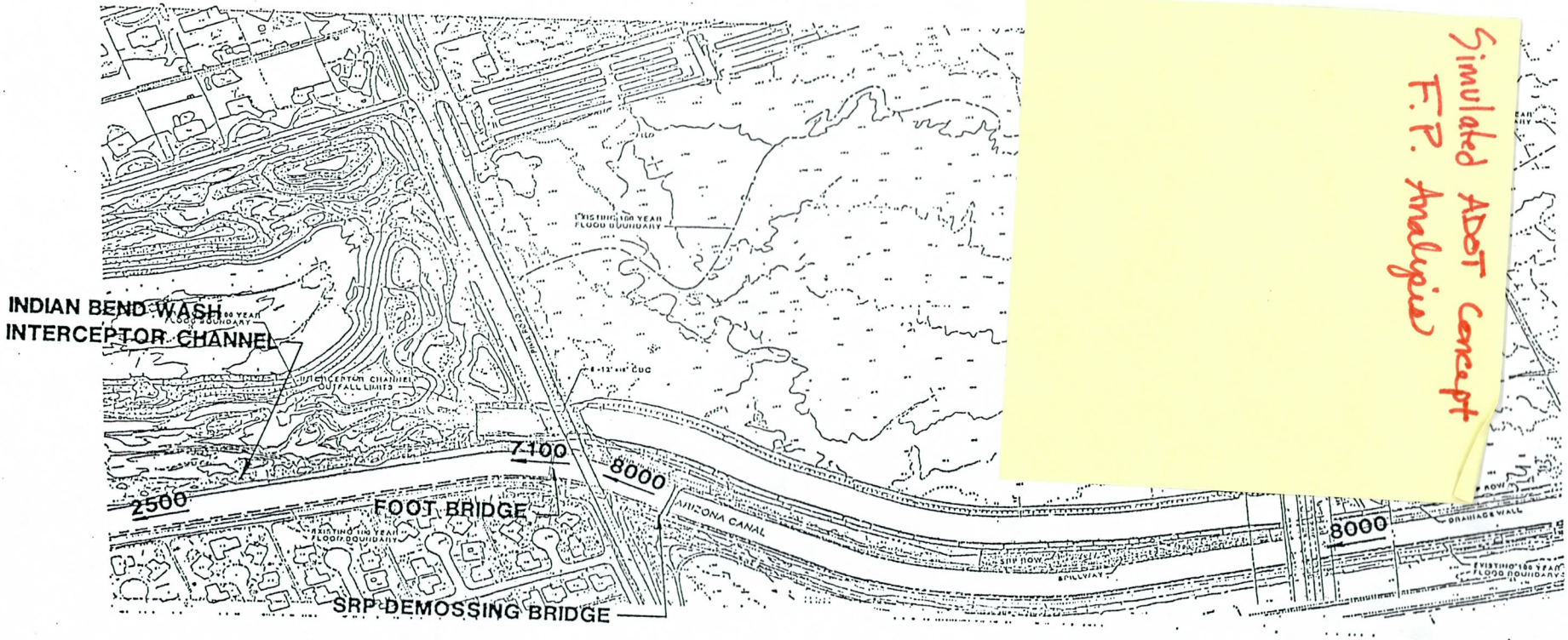
WARNING SECNO= 7772.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 7772.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 7772.000 PROFILE= 3 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 8100.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 9600.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 9800.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 9800.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 9800.000 PROFILE= 3 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 9885.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 9885.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 9885.000 PROFILE= 3 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE



Simulated ADOT Concept
F.P. Analysis

PROFILE I

Q:2500 CFS THRU Q:7100 CFS } DOWNSTREAM OF PIMA ROAD

Q:7100 CFS THRU Q:8000 CFS } UPSTREAM OF PIMA ROAD

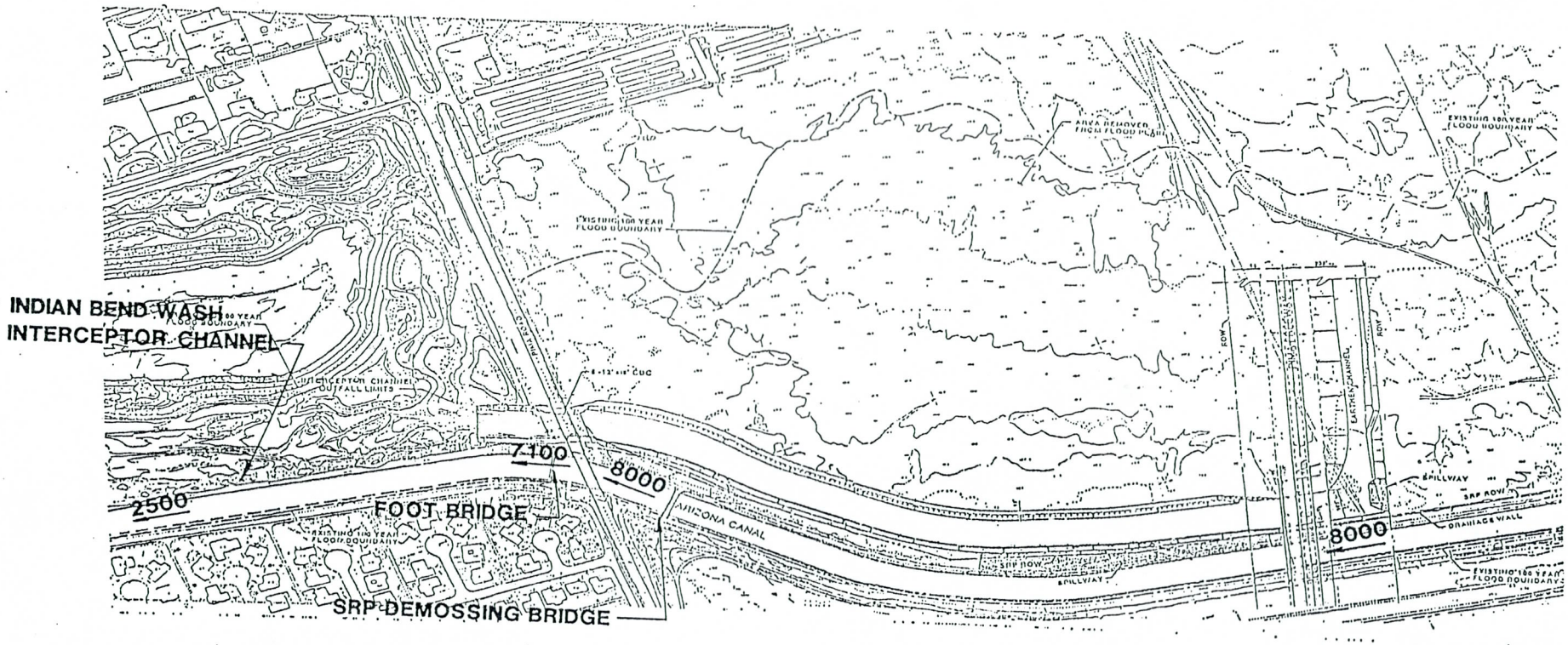
LEGEND

2500 FLOW,CFS

——— FLOW PATH

APPENDIX I

HEC-2 COMPUTER MODEL
SIMULATED ADOT CONCEPT
FLOOD PLAIN ANALYSIS



PROFILE I

Q:2500 CFS THRU Q:7100 CFS } DOWNSTREAM OF PIMA ROAD

Q:7100 CFS THRU Q:8000 CFS } UPSTREAM OF PIMA ROAD

LEGEND

2500 FLOW,CFS

——— FLOW PATH

APPENDIX I

HEC-2 COMPUTER MODEL
SIMULATED ADOT CONCEPT
FLOOD PLAIN ANALYSIS

```
**************************************************
*  WATER SURFACE PROFILES                        *
*  VERSION OF SEPTEMBER 1988                     *
*                                                *
*                                                *
*  RUN DATE     8/30/90    TIME     8:17: 3      *
**************************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  THE HYDROLOGIC ENGINEERING CENTER   *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616             *
*  (916) 756-1104                      *
****************************************
```

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

END OF BANNER

THIS RUN EXECUTED 8/30/90 8:17: 3

****
HEC2 RELEASE DATED SEPT 88

****

****
* F I N A L *
****

* * * * * * * * * * * * * * * * * *
* A P P E N D I X I *
* * * * * * * * * * * * * * * * * *

THIS FILE IS NAMED: APNDXIR.IN

THIS MODEL SIMULATES FLOODPLAIN CONDITIONS WITH DESIGN IN PLACE

DATUM IS CORPS OF ENGINEERS (COE)

THIS MODEL BEGINS AT THE SRP INDIAN BEND SIPHON RADIAL GATES AND CONTINUES FOR ARIZONA CANAL AND AZ CANAL INT CHANNEL (ADOT) AT PIMA ROAD.

T1 DESIGN CONDITIONS
T2 CORPS OF ENGINEERS DATUM
T3 ARIZONA CANAL INTERCEPTOR CHANNEL

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2							1280.5	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	-1					7		15

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

120 150

```
NC    0.030     0.030     0.018        .1        .3
QT        1      2500
```

SRP INDIAN BEND SIPHON RADIAL GATES DOWNSTREAM

```
X1    591.2         4        20    76.001         0         0         0
X3       10
GR   1281.4        20    1271.4    20.001    1271.4        76    1281.4    76.001
```

SRP INDIAN BEND SIPHON RADIAL GATES UPSTREAM

```
X1    605.2                                      14        14        14
X3       10

X1    631.2         4         0        90        26        26        26
X3       10
GR   1281.4         0    1271.4        10    1271.4        80    1281.4        90

X1   1000.0         4         0        90       369       369       369
X3       10
GR   1281.4         0    1271.5        10    1271.5        80    1281.4        90

X1   1200.0         0         0         0       200       200       200
X3       10

X1   1600.0         4         0        90       400       400       400
X3       10
GR   1281.7         0    1271.6        10    1271.6        80    1281.2        90

NC        0         0         0        .3        .5
```

HAYDEN BRIDGE DOWNSTREAM

```
X1   1895.0        39       7.5      93.8       295       295       295
X2                                 1283.3    1284.3
X3       10
GR   1283.2       7.5    1271.7        15    1271.7        50    1283.2    50.001    1283.2      51.3
GR   1271.7    51.301    1271.7      86.3    1283.3      93.8    1283.2       274    1280.2   274.001
GR   1274.2       301    1283.3   301.001    1283.3       303    1274.0   303.001    1270.1       313
GR   1270.0       333    1283.3   333.001    1283.3       335    1270.0   335.001    1270.0       368
GR   1283.3   368.001    1283.3       370    1269.5   370.001    1269.1       389    1269.5       407
GR   1283.3   407.001    1283.3       409    1269.5   409.001    1270.0       430    1283.3   430.001
GR   1283.3       432    1270.1   432.001    1270.1       455    1274.0       465    1283.3   465.001
GR   1283.3       467    1274.2   467.001    1283.0   493.999    1283.3       494
```

HAYDEN BRIDGE UPSTREAM

X1	1985.0	0	0	0	90	90	90			
X2				1283.3	1284.3					
X3	10									
NC				.1	.3					
X1	2500.0	4	0	91	515	515	515			
X3	10									
GR	1283.3	0	1271.9	11.4	1271.9	81.4	1281.6	91		
X1	2900.0	4	0	89	400	400	400			
X3	10									
GR	1282.9	0	1272.0	10.9	1272.0	80	1281.1	89		
X1	3155.1	4	0	91	255	255	255			
X3	10									
GR	1282.9	0	1272.1	10	1272.1	80	1281.6	91		
X1	3365.0	4	0	92	210	210	210			
X3	10									
GR	1282.9	0	1272.2	11	1272.2	81	1281.6	92		
X1	4000.0	4	0	89	635	635	635			
X3	10									
GR	1283.1	0	1272.4	11	1272.4	81	1282.7	89		
X1	4350.0	4	0	93	350	350	350			
X3	10									
GR	1282.8	0	1272.5	10	1272.5	80	1283.3	93		
X1	4800.0	4	0	95	450	450	450			
X3	10									
GR	1282.4	0	1272.7	10	1272.7	80	1282.2	95		
X1	5300.0	4	0	91	500	500	500			
X3	10									
GR	1283.1	0	1272.9	11	1272.9	81	1283.1	91		
X1	5850.0	4	0	91	550	550	550			
X3	10									
GR	1283.8	0	1273.1	11	1273.1	81	1283.9	91		
X1	5900.0	5	0	91.8	50	50	50			
X3	10									
GR	1284.2	0	1273.2	11	1273.2	81	1284.0	91.8	1281.4	226.6

```
X1   6010.0        0        0        0      110      110      110
X3        10
```

BEGIN COE SPILLWAY DOWNSTREAM

```
X1   6117.0        5        0     88.3      107      107      107
X3        10
GR   1284.2        0   1273.2       11   1273.2       81   1280.5     88.3   1279.5      126

QT        1     3303
X1   6337.0        5        0     88.3      220      220      220
X3        10
GR   1284.2        0   1273.3       11   1273.3       81   1280.8     88.3   1279.6      111

QT        1     3930
X1   6557.0        5        0     88.3      220      220      220
X3        10
GR   1284.5        0   1273.4       11   1273.4       81   1280.7     88.3   1279.9      115.4

QT        1     4425
X1   6777.0        5        0     88.3      220      220      220
X3        10
GR   1284.5        0   1273.5       11   1273.5       81   1280.8     88.3   1280.6      113.5

QT        1     4832
X1   6997.0        5        0     88.6      220      220      220
X3        10
GR   1285.0        0   1273.6     11.3   1273.6     81.3   1281.0     88.6   1280.8      113.8

QT        1     5150
```

END COE SPILLWAY UPSTREAM

```
X1   7217.0        5        0     88.6      220      220      220
X3        10
GR   1285.0        0   1273.7     11.3   1273.7     81.3   1281.0     88.6   1280.0      113.8

X1   7329.0        5        0     92.3      112      112      112
X3        10
GR   1285.0        0   1273.7     11.3   1273.7     81.3   1284.0     92.3   1280.8      113.8

X1   7431.0       10        0     92.3      180      180      180
X3        10
GR   1285.0        0   1273.7     11.8   1273.7     81.3   1284.7     92.3   1284.5      117.5
GR   1285.0    127.5   1278.3    142.5   1278.3    152.5   1285.0      168   1285.2      210
```

FOOT BRIDGE DOWNSTREAM

```
X1   7452.0      10        0      92.3      161       161       161
X2                                1283.9    1284.9
X3      10
GR   1285.0       0     1273.7     11.8    1273.7      81.3    1284.7      92.3    1284.5     117.5
GR   1285.0   127.5     1278.3    142.5    1278.3     152.5    1285.0       168    1285.0       196

X1   7458.0       0        0          0         6         6         6
X2                                1283.9    1284.9
X3      10

NC                                   .3        .5
```

PIMA ROAD DOWNSTREAM

```
X1   7499.0      38        0         92        80        80        80
X2                                1284.0    1286.0                                              15
X3      10
GR   1285.0       0     1273.8     11.2    1273.8      30.5    1284.0    30.501    1284.0      31.8
GR   1273.8  31.801     1273.8     61.5    1284.0    61.501    1284.0      62.8    1273.8    62.801
GR   1273.8    81.3     1285.0       92    1284.8       117    1271.0   117.001    1271.0       129
GR   1279.0 129.001     1279.0      130    1271.0   130.001    1271.0       142    1279.0    142.001
GR   1279.0     143     1271.0  143.001    1271.0       155    1279.0   155.001    1279.0       156
GR   1271.0 156.001     1271.0      168    1279.0   168.001    1279.0       169    1271.0    169.001
GR   1271.0     181     1279.0  181.001    1279.0       182    1271.0   182.001    1271.0       194
GR   1279.0 194.001     1279.0      195    1284.0       200
```

PIMA ROAD UPSTREAM

```
X1   7532.0                                  33        33        33
X2                                1284.0    1286.0                                              15
X3      10

NC       0        0        0        .1        .3
GT       1     8000
X1   7680.0       11     92.2     1285       148       148       148
CI    220.0   1271.2    0.018        2         2                 100
X3      10
GR   1285.0        0    1273.9     11.2    1273.9      81.2    1285.0      92.2    1284.8     116.4
GR   1285.0    126.0    1280.5    137.0    1282.0     332.0    1283.0       937    1284.0      1000
GR   1285.0     1285
```

SRP DEMOSSING BRIDGE DOWNSTREAM

```
X1   7760.0      11       92      1285       80       80       80
CI    250      .0010
X3     10
GR   1285.0       0   1274.0        11   1274.0        81   1285.0        92   1283.5       122
GR   1284.0     126   1280.5       137   1282.0       332   1283.0       937   1284.0      1000
GR   1285.0    1285
```

SRP DEMOSSING BRIDGE UPSTREAM

```
X1   7772.0      16     91.9      1285       12       12       12
CI
X3     10
BT      4     0.3   1284.7    1284.7      3.6   1284.7   1281.7     88.7   1284.7   1281.7
BT   91.7  1284.7   1284.7
GR   1285.0       0   1284.7       0.3   1281.7       3.6   1274.0        11   1274.0        81
GR   1281.7    88.7   1284.7      91.7   1284.9      91.9   1283.5       122   1283.7       124
GR   1284.0     126   1285.5       137   1285.0       332   1285.0       937   1285.0      1000
GR   1285.0    1285

X1   8100.0      12     92.5      1520       350      350      350
CI
X3     10
GR   1285.5       0   1274.0        11.5  1274.0        81.5  1285.0        92.5  1285.0       122
GR   1280.7     126   1280.8       320   1281.0       402   1282.0       647   1283.0       950
GR   1284.0    1250   1285.0      1520
```

BEGIN ARIZONA CANAL SPILLWAY DOWNSTREAM NORTH BANK
AND ARIZONA CANAL SPILLWAY (ADOT) DOWNSTREAM NORTH BANK

```
X1   8600.0      13     92.5      1680       500      500      500
CI
X3     10
GR   1285.7       0   1274.2        11.5  1274.2        81.5  1285.2        92.5  1285.0       116
GR   1280.8     126   1280.9       320   1281.0       402   1282.0       650   1283.0       896
GR   1284.0    1200   1285.0      1600   1285.5      1680

X1   8700.0      12       91      1700       100      100      100
CI
X3     10
GR   1285.8       0   1274.3        11.5  1274.3        81.5  1283.8        91.0  1281.1       117
GR   1280.8     250   1281.0       380   1282.0       580   1283.0       956   1284.0      1200
GR   1285.0    1400   1286.0      1700
```

```
X1   8920.0      12       91      1700       220       220       220
CI
X3      10
GR   1286.0       0   1274.4      11.5    1274.4      81.5    1283.9      91.0    1281.2       117
GR   1280.9     250   1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR   1285.0    1400   1286.0      1700

X1   9140.0      12       92      1600       220       220       220
CI
X3      10
GR   1286.0       0   1274.5      12.5    1274.5      82.5    1284.0      92.0    1282.0       117
GR   1280.9     250   1281.0       380    1282.0       580    1283.0       956    1284.0      1200
GR   1285.0    1230   1286.0      1600

X1   9360.0      11       92      1490       220       220       220
CI
X3      10
GR   1287.0       0   1274.6      12.5    1274.6      82.5    1284.0      92.0    1283.6       116
GR   1281.5     400   1282.0       480    1283.0       760    1284.0      1030    1285.0      1250
GR   1286.0    1490

        END PROPOSED SPILLWAY


X1   9460.0       0        0         0        100       100       100
CI
X3      10

        PROPOSED PIMA FREEWAY DOWNSTREAM


X1   9600.0      12     90.5      1450        140       140       140
CI                                          0.001
X3      10                   0    1286.0       290    1290.0
GR   1287.1       0   1274.6      12.5    1274.6      82.5    1282.5      90.5    1280.3       100
GR   1281.5     220   1282.0       340    1282.0       470    1283.0       690    1284.0      1070
GR   1285.0    1270   1286.0      1450

        PROPOSED PIMA FREEWAY UPSTREAM


X1   9770.0       0        0         0        170       170       170
CI
X3      10                   0    1285.0       310    1290.0
```

```
X1   9800.0      14       90      1800       30       30       30
CI
X3      10
GR   1287.0       0   1274.7      12.5   1274.7     82.0   1282.5      90   1280.3     100
GR   1273.5     180   1273.5       280   1274.3      330   1275.1     450   1277.1    1000
GR   1279.0    1500   1280.0      1670   1281.0     1720   1286.0    1800

X1   9885.0      12       90      1220       85       85       85
CI      200  1280.0    0.018     0.001    0.001                 115
X3      10
GR   1287.0       0   1274.7      12.5   1274.7     82.0   1282.5      90   1280.3     125
GR   1281.5     200   1281.0       350   1282.0      400   1283.0     600   1284.0     750
GR   1285.0    1200   1286.0      1220

X1   9900.0      11       90      1220       39       39       39
CI      250     .01      .01       .01      .01                  .01
X3      10
GR   1286.8       0   1274.8        12   1274.8       82   1282.5      90   1280.3     150
GR   1281.5     210   1282.0       400   1283.0      600   1284.0     750   1285.0    1060
GR   1286.0    1220

X1   10000.       0        0         0      100      100      100
X3      10

NH       2   0.018       90     0.030     1550
X1   10600.      11      100      1550      600      600      600
X3      10
GR   1287.0       0   1275.0        12   1275.0       82   1283.0      90   1283.2     100
GR   1282.0     260   1283.0       590   1284.0      840   1285.0    1120   1286.0    1380
GR   1286.9    1550

NH       2   0.018       90     0.030     1550
X1   11100.      12      100      1550      500      500      500
X3      10
GR   1287.2       0   1275.2        12   1275.2       82   1283.2      90   1283.2     100
GR   1281.3     190   1282.0       230   1283.0      590   1284.0     850   1285.0    1190
GR   1286.0    1380   1287.0      1550

NH       2   0.018     90.8     0.030     1550

        END ARIZONA CANAL SPILLWAY # 1 UPSTREAM NORTH BANK

X1   11200.      12     90.8      1550      100      100      100
X3      10
GR   1286.7       0   1275.2      11.5   1275.2     81.5   1285.5     90.8   1283.2     100
GR   1282.0     190   1282.0       230   1283.0      590   1284.0     850   1285.0    1190
GR   1286.0    1380   1287.0      1550
```

```
NH       2     0.018      90.8     0.030      1500
X1   11400.        11      90.8      1500       200       200       200
X3      10
GR    1286.8         0    1275.3      11.5    1275.3      81.5    1285.6      90.8    1283.2       100
GR    1282.0       230    1283.0       590    1284.0       850    1285.0      1190    1286.0      1380
GR    1287.0      1500

NH       2     0.018      90.8     0.030      1500
X1   11900.        11      90.8      1500       500       500       500
X3      10
GR    1287.0         0    1275.5      11.5    1275.5      81.5    1285.8      90.8    1283.2       100
GR    1282.0       230    1283.0       590    1284.0       850    1285.0      1190    1286.0      1380
GR    1287.0      1500

NH       2     0.018      90.8     0.030      1680

        BEGIN ARIZONA CANAL SPILLWAY # 2  DOWNSTREAM NORTH BANK

X1   12300.        12      90.8      1680       400       400       400
X3      10
GR    1287.1         0    1275.6      11.5    1275.6      81.5    1285.9      90.8    1283.2       100
GR    1282.0       230    1283.0       590    1284.0       850    1285.0      1190    1286.0      1380
GR    1287.0      1500    1288.0      1680

NH       2     0.018      89.5     0.030      1680
X1   12400.        11      89.5      1680       100       100       100
X3      10
GR    1287.2         0    1275.7      11.5    1275.7      81.5    1283.7      89.5    1283.3       100
GR    1282.0       230    1283.0       590    1284.0       850    1285.0      1190    1286.0      1380
GR    1287.0      1680

NH       2     0.018      89.5     0.030      1500
X1   12900.        12      89.5      1500       500       500       500
X3      10
GR    1287.4         0    1275.9      11.5    1275.9      81.5    1283.9      89.5    1283.4       100
GR    1282.2       230    1283.0       590    1284.0       850    1285.0      1190    1285.5      1270
GR    1286.0      1380    1287.0      1500

NH       2     0.018         89     0.030      1680

        C/L DOBSON ROAD EXTENDED & 96TH STREET EXTENDED

X1   13200.        12         89      1680       300       300       300
X3      10
GR    1287.0         0    1276.0        11    1276.0        81    1284.0         89    1283.5       100
GR    1282.3       230    1283.0       590    1284.0       850    1285.0      1190    1286.0      1380
GR    1287.0      1500    1287.5      1680
```

```
NH       2     0.018        89      0.030       1680
X1   13600.        12        89       1680        400        400        400
X3      10
GR    1287.0         0    1276.2         11     1276.2         81     1284.2         89     1283.7        100
GR    1282.2       230    1283.0        590     1284.0        850     1285.0       1190     1286.0       1380
GR    1287.0      1500    1288.0       1680

NH       2     0.018        92      0.030       1680

        END ARIZONA CANAL SPILLWAY # 2 UPSTREAM NORTH BANK (ESTIMATED)


X1   13700.        12        92       1680        100        100        100
X3      10
GR    1287.1         0    1276.2         11     1276.2         81     1287.2         92     1283.6        100
GR    1282.2       230    1283.0        590     1284.0        850     1285.0       1190     1286.0       1380
GR    1287.0      1500    1288.7       1680

X1   13800.         0         0          0        100        100        100
X3      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

```
*PROF 1


CCHV=     .100 CEHV=     .300
*SECNO 591.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1281.40 ELREA=      1281.40

   591.20     9.10  1280.50      .00  1280.50  1280.87      .37      .00      .00  1281.40
    2500.       0.    2500.       0.       0.     510.       0.       0.       0.  1281.40
      .00      .00     4.91      .00     .000     .018     .000     .000  1271.40    20.00
  .000270       0.       0.       0.        0        0        0      .00    56.00    76.00


FLOW DISTRIBUTION FOR SECNO=    591.20          CWSEL=   1280.50

STA=      20.      76.
  PER Q=    100.0
   AREA=    509.6
    VEL=      4.9
  DEPTH=      9.1

*SECNO 605.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1281.40 ELREA=      1281.40

   605.20     9.10  1280.50      .00      .00  1280.88      .37      .00      .00  1281.40
    2500.       0.    2500.       0.       0.     510.       0.       0.       0.  1281.40
      .00      .00     4.90      .00     .000     .018     .000     .000  1271.40    20.00
  .000270      14.      14.      14.        0        0        0      .00    56.00    76.00


FLOW DISTRIBUTION FOR SECNO=    605.20          CWSEL=   1280.50

STA=      20.      76.
  PER Q=    100.0
   AREA=    509.8
    VEL=      4.9
  DEPTH=      9.1
```

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

#SECNO 631.200

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

631.20	9.32	1280.72	.00	.00	1280.90	.18	.00	.02	1281.40
2500.	0.	2500.	0.	0.	740.	0.	1.	0.	1281.40
.00	.00	3.38	.00	.000	.018	.000	.000	1271.40	.68
.000111	26.	26.	26.	2	0	0	.00	88.65	89.32

FLOW DISTRIBUTION FOR SECNO= 631.20 CWSEL= 1280.72

STA=	1.	90.
PER Q=	100.0	
AREA=	739.6	
VEL=	3.4	
DEPTH=	8.3	

#SECNO 1000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

1000.00	9.26	1280.76	.00	.00	1280.94	.18	.04	.00	1281.40
2500.	0.	2500.	0.	0.	735.	0.	7.	1.	1281.40
.03	.00	3.40	.00	.000	.018	.000	.000	1271.50	.64
.000113	369.	369.	369.	2	0	0	.00	88.71	89.36

FLOW DISTRIBUTION FOR SECNO= 1000.00 CWSEL= 1280.76

STA=	1.	90.
PER Q=	100.0	
AREA=	735.1	
VEL=	3.4	
DEPTH=	8.3	

#SECNO 1200.000

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.40 ELREA= 1281.40

1200.00	9.29	1280.79	.00	.00	1280.97	.18	.02	.00	1281.40
2500.	0.	2500.	0.	0.	737.	0.	10.	1.	1281.40
.05	.00	3.39	.00	.000	.018	.000	.000	1271.50	.62
.000112	200.	200.	200.	0	0	0	.00	88.76	89.38

FLOW DISTRIBUTION FOR SECNO= 1200.00 CWSEL= 1280.79

STA= 1. 90.
PER Q= 100.0
AREA= 737.1
VEL= 3.4
DEPTH= 8.3

*SECNO 1600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1281.70 ELREA= 1281.20

1600.00	9.23	1280.83	.00	.00	1281.01	.18	.05	.00	1281.70
2500.	0.	2500.	0.	0.	733.	0.	17.	2.	1281.20
.08	.00	3.41	.00	.000	.018	.000	.000	1271.60	.86
.000114	400.	400.	400.	0	0	0	.00	88.76	89.62

FLOW DISTRIBUTION FOR SECNO= 1600.00 CWSEL= 1280.83

STA= 1. 90.
PER Q= 100.0
AREA= 732.9
VEL= 3.4
DEPTH= 8.3

CCHV= .300 CEHV= .500
*SECNO 1895.000

3265 DIVIDED FLOW

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

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.30 MAX ELLC= 1283.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1283.30

1895.00	9.16	1280.86	.00	.00	1281.06	.20	.04	.01	1283.20
2500.	0.	2500.	0.	0.	696.	0.	22.	3.	1283.30
.10	.00	3.59	.00	.000	.018	.000	.000	1271.70	9.02
.000162	295.	295.	295.	0	0	0	.00	81.90	92.23

FLOW DISTRIBUTION FOR SECNO= 1895.00 CWSEL= 1280.86

STA= 9. 94.
PER Q= 100.0
AREA= 696.0
VEL= 3.6
DEPTH= 8.5

*SECNO 1985.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.30 MAX ELLC= 1283.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1283.30

1985.00	9.18	1280.88	.00	.00	1281.08	.20	.01	.00	1283.20
2500.	0.	2500.	0.	0.	697.	0.	23.	3.	1283.30
.11	.00	3.59	.00	.000	.018	.000	.000	1271.70	9.02
.000162	90.	90.	90.	0	0	0	.00	81.91	92.23

FLOW DISTRIBUTION FOR SECNO= 1985.00 CWSEL= 1280.88

STA= 9. 94.
PER Q= 100.0
AREA= 696.8
VEL= 3.6
DEPTH= 8.5

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

CCHV= .100 CEHV= .300
*SECNO 2500.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.30 ELREA= 1281.60

2500.00	9.06	1280.96	.00	.00	1281.15	.19	.07	.00	1283.30
2500.	0.	2500.	0.	0.	716.	0.	32.	4.	1281.60
.15	.00	3.49	.00	.000	.018	.000	.000	1271.90	2.34
.000122	515.	515.	515.	0	0	0	.00	88.03	90.37

FLOW DISTRIBUTION FOR SECNO= 2500.00 CWSEL= 1280.96

STA= 2. 91.
PER Q= 100.0
AREA= 715.8
VEL= 3.5
DEPTH= 8.1

*SECNO 2900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1281.10

2900.00	9.00	1281.00	.00	.00	1281.20	.20	.05	.00	1282.90
2500.	0.	2500.	0.	0.	703.	0.	38.	5.	1281.10
.18	.00	3.55	.00	.000	.018	.000	.000	1272.00	1.89
.000128	400.	400.	400.	1	0	0	.00	87.02	88.91

FLOW DISTRIBUTION FOR SECNO= 2900.00 CWSEL= 1281.00

STA= 2. 89.
PER Q= 100.0
AREA= 703.4
VEL= 3.6
DEPTH= 8.1

*SECNO 3155.100

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1281.60

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3155.10	8.94	1281.04	.00	.00	1281.23	.19	.03	.00	1282.90
2500.	0.	2500.	0.	0.	709.	0.	42.	5.	1281.60
.20	.00	3.53	.00	.000	.018	.000	.000	1272.10	1.73
.000127	255.	255.	255.	0	0	0	.00	88.62	90.35

FLOW DISTRIBUTION FOR SECNO= 3155.10 CWSEL= 1281.04

STA= 2. 91.
PER Q= 100.0
AREA= 708.8
VEL= 3.5
DEPTH= 8.0

*SECNO 3365.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.90 ELREA= 1281.60

3365.00	8.87	1281.07	.00	.00	1281.26	.19	.03	.00	1282.90
2500.	0.	2500.	0.	0.	707.	0.	46.	6.	1281.60
.22	.00	3.54	.00	.000	.018	.000	.000	1272.20	1.88
.000129	210.	210.	210.	0	0	0	.00	89.49	91.38

FLOW DISTRIBUTION FOR SECNO= 3365.00 CWSEL= 1281.07

STA= 2. 92.
PER Q= 100.0
AREA= 707.1
VEL= 3.5
DEPTH= 7.9

*SECNO 4000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.10 ELREA= 1282.70

4000.00	8.74	1281.14	.00	.00	1281.35	.21	.09	.00	1283.10
2500.	0.	2500.	0.	0.	681.	0.	56.	7.	1282.70
.27	.00	3.67	.00	.000	.018	.000	.000	1272.40	2.01
.000140	635.	635.	635.	0	0	0	.00	85.79	87.79

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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= 4000.00 CWSEL= 1281.14

STA= 2. 89.
PER Q= 100.0
AREA= 681.4
VEL= 3.7
DEPTH= 7.9

*SECNO 4350.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.80 ELREA= 1283.30

4350.00	8.70	1281.20	.00	.00	1281.40	.20	.05	.00	1282.80
2500.	0.	2500.	0.	0.	690.	0.	61.	8.	1283.30
.30	.00	3.62	.00	.000	.018	.000	.000	1272.50	1.56
.000138	350.	350.	350.	0	0	0	.00	88.89	90.46

FLOW DISTRIBUTION FOR SECNO= 4350.00 CWSEL= 1281.20

STA= 2. 93.
PER Q= 100.0
AREA= 690.3
VEL= 3.6
DEPTH= 7.8

*SECNO 4800.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.40 ELREA= 1282.20

4800.00	8.56	1281.26	.00	.00	1281.46	.20	.06	.00	1282.40
2500.	0.	2500.	0.	0.	695.	0.	68.	8.	1282.20
.33	.00	3.60	.00	.000	.018	.000	.000	1272.70	1.18
.000140	450.	450.	450.	0	0	0	.00	92.34	93.51

FLOW DISTRIBUTION FOR SECNO= 4800.00 CWSEL= 1281.26

STA= 1. 95.
PER Q= 100.0
AREA= 694.7
VEL= 3.6
DEPTH= 7.5

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1284.00

5900.00	8.21	1281.41	.00	.00	1281.64	.24	.01	.00	1284.20
2500.	0.	2500.	0.	0.	642.	0.	85.	11.	1284.00
.41	.00	3.89	.00	.000	.018	.000	.000	1273.20	2.79
.000170	50.	50.	50.	0	0	0	.00	86.42	89.21

FLOW DISTRIBUTION FOR SECNO= 5900.00 CWSEL= 1281.41

STA= 3. 92.
PER Q= 100.0
AREA= 642.0
VEL= 3.9
DEPTH= 7.4

*SECNO 6010.000
3280 CROSS SECTION 6010.00 EXTENDED .02 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1284.00

6010.00	8.23	1281.43	.00	.00	1281.66	.23	.02	.00	1284.20
2500.	0.	2500.	0.	0.	643.	0.	87.	11.	1284.00
.42	.00	3.89	.00	.000	.018	.000	.000	1273.20	2.78
.000169	110.	110.	110.	0	0	0	.00	86.45	89.22

FLOW DISTRIBUTION FOR SECNO= 6010.00 CWSEL= 1281.43

STA= 3. 92.
PER Q= 100.0
AREA= 643.4
VEL= 3.9
DEPTH= 7.4

*SECNO 6117.000
3280 CROSS SECTION 6117.00 EXTENDED 1.95 FEET

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1280.50

6117.00	8.26	1281.46	.00	.00	1281.68	.22	.02	.00	1284.20
2500.	0.	2458.	42.	0.	645.	55.	88.	11.	1280.50
.43	.00	3.81	.77	.000	.018	.030	.000	1273.20	2.75
.000159	107.	107.	107.	1	0	0	.00	123.25	126.00

FLOW DISTRIBUTION FOR SECNO= 6117.00 CWSEL= 1281.46

STA=	3.	88.	126.
PER Q=	98.3	1.7	
AREA=	645.2	54.7	
VEL=	3.8	.8	
DEPTH=	7.5	1.5	

#SECNO 6337.000
3280 CROSS SECTION 6337.00 EXTENDED 1.77 FEET

Spillway

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1280.80

6337.00	8.07	1281.37	.00	.00	1281.79	.42	.05	.06	1284.20
3303.	0.	3279.	24.	0.	629.	27.	92.	12.	1280.80
.44	.00	5.21	.91	.000	.018	.030	.000	1273.30	2.86
.000306	220.	220.	220.	2	0	0	.00	108.14	111.00

FLOW DISTRIBUTION FOR SECNO= 6337.00 CWSEL= 1281.37

STA=	3.	88.	111.
PER Q=	99.3	.7	
AREA=	629.2	26.5	
VEL=	5.2	.9	
DEPTH=	7.4	1.2	

#SECNO 6557.000
3280 CROSS SECTION 6557.00 EXTENDED 1.41 FEET

TW of OutPut doesn't Match TW on maps.

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   SECNO    DEPT                                    L       OLOSS   BANK ELEV
   Q        QLOB                                    OL      TWA   LEFT/RIGHT
   TIME     VLOB                                    TN      ELMIN      SSTA
   SLOPE    XLOB                                    ORAR    TOPWID     ENDST



3495 OVERBANK AR                                    =      1280.70

  6557.00     7.                                          .08      .06  1284.50
    3930.                                                 95.      12.  1280.70
      .45                                                 .000  1273.40     3.16
  .000463     2                                           .00   112.24   115.40


FLOW DISTRIBUTION FOR SECNO=   6557.00          CWSEL=   1281.31

STA=       3.      88.     115.
  PER Q=     99.3       .7
   AREA=    616.1     27.5
    VEL=      6.3      1.0
  DEPTH=      7.2      1.0

#SECNO 6777.000
3280 CROSS SECTION   6777.00 EXTENDED       .69 FEET


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1284.50 ELREA=      1280.80

  6777.00     7.79  1281.29      .00      .00  1282.11      .82      .12      .06  1284.50
    4425.       0.    4412.      13.       0.     606.      15.      98.      13.  1280.80
      .46      .00     7.28      .86     .000     .018     .030     .000  1273.50     3.21
  .000624     220.     220.     220.        2        0        0      .00   110.29   113.50


FLOW DISTRIBUTION FOR SECNO=   6777.00          CWSEL=   1281.29

STA=       3.      88.     114.
  PER Q=     99.7       .3
   AREA=    605.9     14.9
    VEL=      7.3       .9
  DEPTH=      7.1       .6

#SECNO 6997.000
3280 CROSS SECTION   6997.00 EXTENDED       .51 FEET
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.50 ELREA= 1280.70

6557.00	7.91	1281.31	.00	.00	1281.93	.62	.08	.06	1284.50
3930.	0.	3901.	29.	0.	616.	27.	95.	12.	1280.70
.45	.00	6.33	1.04	.000	.018	.030	.000	1273.40	3.16
.000463	220.	220.	220.	2	0	0	.00	112.24	115.40

FLOW DISTRIBUTION FOR SECNO= 6557.00 CWSEL= 1281.31

STA=	3.	88.	115.
PER Q=	99.3	.7	
AREA=	616.1	27.5	
VEL=	6.3	1.0	
DEPTH=	7.2	1.0	

#SECNO 6777.000
3280 CROSS SECTION 6777.00 EXTENDED .69 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.50 ELREA= 1280.80

6777.00	7.79	1281.29	.00	.00	1282.11	.82	.12	.06	1284.50
4425.	0.	4412.	13.	0.	606.	15.	98.	13.	1280.80
.46	.00	7.28	.86	.000	.018	.030	.000	1273.50	3.21
.000624	220.	220.	220.	2	0	0	.00	110.29	113.50

FLOW DISTRIBUTION FOR SECNO= 6777.00 CWSEL= 1281.29

STA=	3.	88.	114.
PER Q=	99.7	.3	
AREA=	605.9	14.9	
VEL=	7.3	.9	
DEPTH=	7.1	.6	

#SECNO 6997.000
3280 CROSS SECTION 6997.00 EXTENDED .51 FEET

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1281.00

6997.00	7.71	1281.31	.00	.00	1282.32	1.01	.15	.06	1285.00
4832.	0.	4824.	8.	0.	599.	10.	101.	13.	1281.00
.46	.00	8.06	.76	.000	.018	.030	.000	1273.60	3.65
.000775	220.	220.	220.	2	0	0	.00	110.15	113.80

FLOW DISTRIBUTION FOR SECNO= 6997.00 CWSEL= 1281.31

STA=	4.	89.	114.
PER Q=	99.8	.2	
AREA=	598.7	10.4	
VEL=	8.1	.8	
DEPTH=	7.0	.4	

*SECNO 7217.000
3280 CROSS SECTION 7217.00 EXTENDED 1.41 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1281.00

7217.00	7.71	1281.41	.00	.00	1282.54	1.13	.18	.04	1285.00
5150.	0.	5120.	30.	0.	599.	23.	105.	14.	1281.00
.47	.00	8.55	1.32	.000	.018	.030	.000	1273.70	3.59
.000872	220.	220.	220.	2	0	0	.00	110.21	113.80

FLOW DISTRIBUTION FOR SECNO= 7217.00 CWSEL= 1281.41

STA=	4.	89.	114.
PER Q=	99.4	.6	
AREA=	599.0	22.9	
VEL=	8.5	1.3	
DEPTH=	7.0	.9	

*SECNO 7329.000
3280 CROSS SECTION 7329.00 EXTENDED .74 FEET

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.00

7329.00	7.84	1281.54	.00	.00	1282.64	1.10	.10	.00	1285.00
5150.	0.	5150.	0.	0.	612.	0.	106.	14.	1284.00
.47	.00	8.41	.00	.000	.018	.000	.000	1273.70	3.46
.000837	112.	112.	112.	2	0	0	.00	86.20	89.67

FLOW DISTRIBUTION FOR SECNO= 7329.00 CWSEL= 1281.54

STA= 3. 92.
PER Q= 100.0
AREA= 612.0
VEL= 8.4
DEPTH= 7.1

*SECNO 7431.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7431.00	8.03	1281.73	.00	.00	1282.79	1.06	.15	.00	1285.00
5150.	0.	5150.	0.	0.	624.	0.	109.	15.	1284.70
.48	.00	8.26	.00	.000	.018	.000	.000	1273.70	3.42
.000785	180.	180.	180.	2	0	0	.00	85.91	89.33

FLOW DISTRIBUTION FOR SECNO= 7431.00 CWSEL= 1281.73

STA= 3. 92.
PER Q= 100.0
AREA= 623.7
VEL= 8.3
DEPTH= 7.3

*SECNO 7452.000

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.90 MAX ELLC= 1283.90

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7452.00	8.20	1281.90	.00	.00	1282.91	1.01	.12	.00	1285.00
5150.	0.	5150.	0.	0.	639.	0.	111.	15.	1284.70
.49	.00	8.06	.00	.000	.018	.000	.000	1273.70	3.23
.000729	161.	161.	161.	2	0	0	.00	86.27	89.50

FLOW DISTRIBUTION FOR SECNO= 7452.00 CWSEL= 1281.90

STA= 3. 92.
PER Q= 100.0
AREA= 638.9
VEL= 8.1
DEPTH= 7.4

#SECNO 7458.000

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1284.90 MAX ELLC= 1283.90

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1284.70

7458.00	8.21	1281.91	.00	.00	1282.92	1.01	.00	.00	1285.00
5150.	0.	5150.	0.	0.	639.	0.	111.	15.	1284.70
.49	.00	8.06	.00	.000	.018	.000	.000	1273.70	3.23
.000728	6.	6.	6.	0	0	0	.00	86.28	89.51

FLOW DISTRIBUTION FOR SECNO= 7458.00 CWSEL= 1281.91

STA= 3. 92.
PER Q= 100.0
AREA= 639.3
VEL= 8.1
DEPTH= 7.4

CCHV= .300 CEHV= .500
#SECNO 7499.000

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

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1286.00 MAX ELLC= 1284.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7499.00	8.14	1281.94	.00	.00	1283.03	1.09	.07	.04	1285.00
5150.	0.	5150.	0.	0.	614.	0.	112.	15.	1285.00
.49	.00	8.38	.00	.000	.018	.000	.000	1273.80	3.06
.001206	80.	80.	80.	2	0	0	.00	83.42	89.08

FLOW DISTRIBUTION FOR SECNO= 7499.00 CWSEL= 1281.94

STA= 3. 92.
PER Q= 100.0
AREA= 614.3
VEL= 8.4
DEPTH= 7.4

#SECNO 7532.000

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 0 MIN ELTRD= 1286.00 MAX ELLC= 1284.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7532.00	8.20	1282.00	.00	.00	1283.08	1.07	.04	.01	1285.00
5150.	0.	5150.	0.	0.	620.	0.	113.	15.	1285.00
.49	.00	8.31	.00	.000	.018	.000	.000	1273.80	3.00
.001177	33.	33.	33.	2	0	0	.00	83.54	89.14

FLOW DISTRIBUTION FOR SECNO= 7532.00 CWSEL= 1282.00

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

STA= 3. 92.
PER Q= 100.0
AREA= 619.6
VEL= 8.3
DEPTH= 7.4

CCHV= .100 CEHV= .300
*SECNO 7680.000
CHIMP CLSTA= 220.00 CELCH= 1271.20 BW= 100.00 STCHL= 92.20 STCHR= 1285.00
EXCAVATION DATA
AEX= 1192.0SQ-FT VEXR= .0K*CU-YD VEXT= .0K*CU-YD

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7680.00	11.82	1283.02	.00	.00	1283.30	.29	.15	.08	1285.00
8000.	0.	8000.	0.	0.	1855.	0.	117.	17.	1285.00
.50	.00	4.31	.00	.000	.018	.000	.000	1271.20	130.85
.000907	148.	148.	148.	4	0	0	.00	807.09	937.94

FLOW DISTRIBUTION FOR SECNO= 7680.00 CWSEL= 1283.02

STA= 131. 1285.
PER Q= 100.0
AREA= 1855.4
VEL= 4.3
DEPTH= 2.3

*SECNO 7760.000
CHIMP CLSTA= 250.00 CELCH= 1271.28 BW= 100.00 STCHL= 92.00 STCHR= 1285.00
EXCAVATION DATA
AEX= 1213.1SQ-FT VEXR= 3.6K*CU-YD VEXT= 3.6K*CU-YD

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

7760.00	11.83	1283.11	.00	.00	1283.37	.26	.07	.00	1285.00
8000.	0.	8000.	0.	0.	1952.	0.	120.	18.	1285.00
.50	.00	4.10	.00	.000	.018	.000	.000	1271.28	128.81
.000776	80.	80.	80.	1	0	0	.00	814.79	943.61

FLOW DISTRIBUTION FOR SECNO= 7760.00 CWSEL= 1283.11

STA= 129. 1285.
PER Q= 100.0
AREA= 1951.7
VEL= 4.1
DEPTH= 2.4

*SECNO 7772.000
CHIMP CLSTA= 250.00 CELCH= 1271.29 BW= 100.00 STCHL= 91.90 STCHR= 1285.00
EXCAVATION DATA
AEX= 1779.4SQ-FT VEXR= .7K*CU-YD VEXT= 4.2K*CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 1284.70 MAX ELLC= ********

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.90 ELREA= 1285.00

7772.00	11.67	1282.96	.00	.00	1283.44	.48	.00	.07	1284.90
8000.	0.	8000.	0.	0.	1440.	0.	121.	18.	1285.00
.51	.00	5.56	.00	.000	.018	.000	.000	1271.29	176.66
.000226	12.	12.	12.	2	0	0	.00	146.69	323.34

FLOW DISTRIBUTION FOR SECNO= 7772.00 CWSEL= 1282.96

STA= 177. 1285.
PER Q= 100.0
AREA= 1439.7
VEL= 5.6
DEPTH= 9.8

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 8100.000
CHIMP CLSTA= 250.00 CELCH= 1271.64 BW= 100.00 STCHL= 92.50 STCHR= 1520.00
EXCAVATION DATA
AEX= 1078.6SQ-FT VEXR= 18.5K*CU-YD VEXT= 22.8K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.00 ELREA= 1285.00

8100.00	11.79	1283.43	.00	.00	1283.58	.15	.10	.03	1285.00
8000.	0.	8000.	0.	0.	2594.	0.	137.	23.	1285.00
.54	.00	3.08	.00	.000	.018	.000	.000	1271.64	123.46
.000372	350.	350.	350.	2	0	0	.00	956.07	1079.53

FLOW DISTRIBUTION FOR SECNO= 8100.00 CWSEL= 1283.43

STA= 123. 1520.
PER Q= 100.0
AREA= 2593.5
VEL= 3.1
DEPTH= 2.7

*SECNO 8600.000
CHIMP CLSTA= 250.00 CELCH= 1272.14 BW= 100.00 STCHL= 92.50 STCHR= 1680.00
EXCAVATION DATA
AEX= 1024.4SQ-FT VEXR= 19.5K*CU-YD VEXT= 42.2K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.20 ELREA= 1285.50

8600.00	11.47	1283.62	.00	.00	1283.76	.14	.18	.00	1285.20
8000.	0.	8000.	0.	0.	2646.	0.	167.	34.	1285.50
.58	.00	3.02	.00	.000	.018	.000	.000	1272.14	119.29
.000351	500.	500.	500.	2	0	0	.00	964.03	1083.33

FLOW DISTRIBUTION FOR SECNO= 8600.00 CWSEL= 1283.62

STA= 119. 1680.
PER Q= 100.0
AREA= 2646.2
VEL= 3.0
DEPTH= 2.7

Top widths do not match F.P. maps?

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   SECNO    I                                          HL       OLOSS   BANK ELEV
   Q        Q                                          VOL      TWA   LEFT/RIGHT
   TIME     V                                          WTN      ELMIN      SSTA
   SLOPE    X                                          CORAR    TOPWID     ENDST


*SECNO 8700.0
CHIMP CLSTA=                                                  91.00 STCHR=    1700.00
EXCAVATION DAT
AEX=    1010.9                                          .0K*CU-YD


3495 OVERBANK                                          EA=      1286.00

  8700.00    11                                          .04      .00  1283.80
    8000.                                               173.      36.   1286.00
     .59                                                .000  1272.24    92.42
  .000366     1                                         .00   1022.75  1115.17


FLOW DISTRIBUTION FOR SECNO=   8700.00         CWSEL=   1283.66

STA=      92.    1700.
  PER Q=    100.0
   AREA=   2675.1
    VEL=      3.0
  DEPTH=      2.6

*SECNO 8920.000
CHIMP CLSTA=     250.00 CELCH=    1272.46 BW=     100.00 STCHL=      91.00 STCHR=    1700.00
EXCAVATION DATA
AEX=     993.0SQ-FT     VEXR=       8.2K*CU-YD     VEXT=       54.2K*CU-YD


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1283.90 ELREA=      1286.00

  8920.00    11.28  1283.74      .00      .00  1283.87      .13      .08      .00  1283.90
    8000.       0.    8000.       0.       0.    2720.       0.     187.      41.   1286.00
      .61      .00     2.94      .00     .000     .018     .000     .000  1272.46    92.60
  .000355     220.     220.     220.        0        0        0      .00  1042.56  1135.16


FLOW DISTRIBUTION FOR SECNO=   8920.00         CWSEL=   1283.74

STA=      93.    1700.
  PER Q=    100.0
   AREA=   2719.6
    VEL=      2.9
  DEPTH=      2.6
```

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 8700.000
CHIMP CLSTA= 250.00 CELCH= 1272.24 BW= 100.00 STCHL= 91.00 STCHR= 1700.00
EXCAVATION DATA
AEX= 1010.9SQ-FT VEXR= 3.8K#CU-YD VEXT= 46.0K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.80 ELREA= 1286.00

8700.00	11.41	1283.66	.00	.00	1283.79	.14	.04	.00	1283.80
8000.	0.	8000.	0.	0.	2675.	0.	173.	36.	1286.00
.59	.00	2.99	.00	.000	.018	.000	.000	1272.24	92.42
.000366	100.	100.	100.	0	0	0	.00	1022.75	1115.17

FLOW DISTRIBUTION FOR SECNO= 8700.00 CWSEL= 1283.66

STA= 92. 1700.
PER Q= 100.0
AREA= 2675.1
VEL= 3.0
DEPTH= 2.6

#SECNO 8920.000
CHIMP CLSTA= 250.00 CELCH= 1272.46 BW= 100.00 STCHL= 91.00 STCHR= 1700.00
EXCAVATION DATA
AEX= 993.0SQ-FT VEXR= 8.2K#CU-YD VEXT= 54.2K#CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.90 ELREA= 1286.00

8920.00	11.28	1283.74	.00	.00	1283.87	.13	.08	.00	1283.90
8000.	0.	8000.	0.	0.	2720.	0.	187.	41.	1286.00
.61	.00	2.94	.00	.000	.018	.000	.000	1272.46	92.60
.000355	220.	220.	220.	0	0	0	.00	1042.56	1135.16

FLOW DISTRIBUTION FOR SECNO= 8920.00 CWSEL= 1283.74

STA= 93. 1700.
PER Q= 100.0
AREA= 2719.6
VEL= 2.9
DEPTH= 2.6

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 9140.000
CHIMP CLSTA= 250.00 CELCH= 1272.68 BW= 100.00 STCHL= 92.00 STCHR= 1600.00
EXCAVATION DATA
AEX= 977.2SQ-FT VEXR= 8.0K*CU-YD VEXT= 62.2K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.00 ELREA= 1286.00

9140.00	11.14	1283.82	.00	.00	1283.95	.13	.08	.00	1284.00
8000.	0.	8000.	0.	0.	2728.	0.	201.	47.	1286.00
.63	.00	2.93	.00	.000	.018	.000	.000	1272.68	94.26
.000361	220.	220.	220.	0	0	0	.00	1061.60	1155.86

FLOW DISTRIBUTION FOR SECNO= 9140.00 CWSEL= 1283.82

STA= 94. 1600.
PER Q= 100.0
AREA= 2727.6
VEL= 2.9
DEPTH= 2.6

*SECNO 9360.000
CHIMP CLSTA= 250.00 CELCH= 1272.90 BW= 100.00 STCHL= 92.00 STCHR= 1490.00
EXCAVATION DATA
AEX= 1159.8SQ-FT VEXR= 8.7K*CU-YD VEXT= 70.9K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.00 ELREA= 1286.00

9360.00	10.97	1283.87	.00	.00	1284.08	.21	.10	.02	1284.00
8000.	0.	8000.	0.	0.	2191.	0.	213.	51.	1286.00
.65	.00	3.65	.00	.000	.018	.000	.000	1272.90	99.88
.000597	220.	220.	220.	2	0	0	.00	894.66	994.54

FLOW DISTRIBUTION FOR SECNO= 9360.00 CWSEL= 1283.87

STA= 100. 1490.
PER Q= 100.0
AREA= 2191.0
VEL= 3.7
DEPTH= 2.4

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 9460.000
CHIMP CLSTA= 250.00 CELCH= 1273.00 BW= 100.00 STCHL= 92.00 STCHR= 1490.00
EXCAVATION DATA
AEX= 1145.9SQ-FT VEXR= 4.3K*CU-YD VEXT= 75.2K*CU-YD

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1284.00 ELREA= 1286.00

9460.00	10.93	1283.93	.00	.00	1284.13	.20	.06	.00	1284.00
8000.	0.	8000.	0.	0.	2228.	0.	218.	54.	1286.00
.66	.00	3.59	.00	.000	.018	.000	.000	1273.00	96.51
.000580	100.	100.	100.	1	0	0	.00	913.19	1009.70

FLOW DISTRIBUTION FOR SECNO= 9460.00 CWSEL= 1283.93

STA= 97. 1490.
PER Q= 100.0
AREA= 2227.9
VEL= 3.6
DEPTH= 2.4

*SECNO 9600.000
CHIMP CLSTA= 250.00 CELCH= 1273.14 BW= 100.00 STCHL= 90.50 STCHR= 470.00
EXCAVATION DATA
AEX= 994.4SQ-FT VEXR= 5.5K*CU-YD VEXT= 80.7K*CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3470 ENCROACHMENT STATIONS= .0 290.0 TYPE= 1 TARGET= 289.999
ELENCL= 1286.00 ELENCR= 1290.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE. ELLEA= 1282.50 ELREA= 1290.00

9600.00	10.83	1283.97	.00	.00	1284.18	.21	.04	.00	1282.50
8000.	2090.	5910.	0.	743.	1489.	0.	225.	55.	1290.00
.67	2.81	3.97	.00	.030	.018	.000	.000	1273.14	3.13
.000183	140.	140.	140.	2	0	0	.00	296.88	300.01

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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= 9600.00 CWSEL= 1283.97

STA=	3.	13.	83.	91.	470.
PER Q=	.8	24.4	.9	73.9	
AREA=	43.9	655.7	43.3	1489.1	
VEL=	1.5	3.0	1.6	4.0	
DEPTH=	4.7	9.4	5.4	7.1	

*SECNO 9770.000
CHIMP CLSTA= 250.00 CELCH= 1273.31 BW= 100.00 STCHL= 90.50 STCHR= 1450.00
EXCAVATION DATA
AEX= 892.8SQ-FT VEXR= 5.9K*CU-YD VEXT= 86.6K*CU-YD

3470 ENCROACHMENT STATIONS= .0 310.0 TYPE= 1 TARGET= 309.999
ELENCL= 1285.00 ELENCR= 1290.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.50 ELREA= 1290.00

9770.00	10.69	1284.00	.00	.00	1284.21	.21	.03	.00	1282.50	
8000.	2129.	5871.	0.	746.	1498.	0.	234.	57.	1290.00	
.68	2.85	3.92	.00	.030	.018	.000	.000	1273.31	3.10	
.000187	170.	170.	170.	2	0	0	.00	306.90	310.00	

FLOW DISTRIBUTION FOR SECNO= 9770.00 CWSEL= 1284.00

STA=	3.	13.	83.	91.	1450.
PER Q=	.8	24.9	.9	73.4	
AREA=	44.2	658.3	43.6	1498.4	
VEL=	1.5	3.0	1.7	3.9	
DEPTH=	4.7	9.4	5.5	6.8	

*SECNO 9800.000
CHIMP CLSTA= 250.00 CELCH= 1273.34 BW= 100.00 STCHL= 90.00 STCHR= 1800.00
EXCAVATION DATA
AEX= 19.1SQ-FT VEXR= .5K*CU-YD VEXT= 87.2K*CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.50 ELREA= 1286.00

9800.00	10.89	1284.23	.00	.00	1284.23	.01	.00	.02	1282.50
8000.	331.	7669.	0.	753.	11998.	0.	239.	57.	1286.00
.70	.44	.64	.00	.030	.018	.000	.000	1273.34	2.82
.000004	30.	30.	30.	2	0	0	.00	1768.82	1771.63

FLOW DISTRIBUTION FOR SECNO= 9800.00 CWSEL= 1284.23

STA=	3.	13.	82.	90.	1800.
PER Q=	.1	3.9	.1	95.9	
AREA=	46.1	662.1	45.0	11997.7	
VEL=	.2	.5	.3	.6	
DEPTH=	4.8	9.5	5.6	7.1	

*SECNO 9885.000
CHIMP CLSTA= 200.00 CELCH= 1280.00 BW= 115.00 STCHL= 90.00 STCHR= 1220.00
EXCAVATION DATA
AEX= 140.5SQ-FT VEXR= .3K*CU-YD VEXT= 87.4K*CU-YD

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.50 ELREA= 1286.00

9885.00	9.36	1284.06	.00	.00	1284.31	.25	.00	.07	1282.50
8000.	3583.	4417.	0.	739.	1417.	0.	254.	60.	1286.00
.70	4.85	3.12	.00	.030	.018	.000	.000	1274.70	2.99
.000545	85.	85.	85.	2	0	0	.00	773.87	776.86

FLOW DISTRIBUTION FOR SECNO= 9885.00 CWSEL= 1284.06

STA=	3.	13.	82.	90.	1220.
PER Q=	1.4	41.8	1.6	55.2	
AREA=	44.5	650.5	43.7	1416.7	
VEL=	2.6	5.1	2.9	3.1	
DEPTH=	4.7	9.4	5.5	2.1	

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

#SECNO 9900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.50 ELREA= 1286.00

9900.00	9.22	1284.02	.00	.00	1284.36	.35	.03	.03	1282.50
8000.	4174.	3826.	0.	730.	1155.	0.	256.	61.	1286.00
.70	5.71	3.31	.00	.030	.018	.000	.000	1274.80	2.78
.000771	39.	39.	39.	2	0	0	.00	752.14	754.92

FLOW DISTRIBUTION FOR SECNO= 9900.00 CWSEL= 1284.02

STA=	3.	12.	82.	90.	1220.
PER Q=	1.6	48.8	1.8	47.8	
AREA=	42.5	645.1	42.9	1155.0	
VEL=	3.0	6.0	3.4	3.3	
DEPTH=	4.6	9.2	5.4	1.7	

#SECNO 10000.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1282.50 ELREA= 1286.00

10000.00	9.32	1284.12	.00	.00	1284.44	.32	.07	.00	1282.50
8000.	4079.	3921.	0.	740.	1225.	0.	260.	62.	1286.00
.71	5.52	3.20	.00	.030	.018	.000	.000	1274.80	2.68
.000708	100.	100.	100.	2	0	0	.00	784.29	786.97

FLOW DISTRIBUTION FOR SECNO= 10000.00 CWSEL= 1284.12

STA=	3.	12.	82.	90.	1220.
PER Q=	1.6	47.6	1.8	49.0	
AREA=	43.4	652.3	43.8	1225.4	
VEL=	2.9	5.8	3.3	3.2	
DEPTH=	4.7	9.3	5.5	1.8	

1490 NH CARD USED
#SECNO 10600.000

3301 HV CHANGED MORE THAN HVINS

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1286.90

10600.00	8.98	1283.98	1283.74	.00	1285.14	1.16	.45	.25	1283.20
8000.	6743.	1257.	0.	718.	831.	0.	284.	73.	1286.90
.73	9.39	1.51	.00	.018	.030	.000	.000	1275.00	3.02
.000792	600.	600.	600.	6	11	0	.00	832.59	835.61

FLOW DISTRIBUTION FOR SECNO= 10600.00 CWSEL= 1283.98

STA=	3.	12.	82.	90.	100.	840.
PER Q=	2.5	78.9	2.7	.1	15.7	
AREA=	40.3	628.8	39.9	8.8	831.0	
VEL=	5.0	10.0	5.4	1.3	1.5	
DEPTH=	4.5	9.0	5.0	.9	1.1	

1490 NH CARD USED
*SECNO 11100.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.20 ELREA= 1287.00

11100.00	9.74	1284.94	.00	.00	1285.48	.53	.27	.06	1283.20
8000.	5537.	2463.	0.	792.	1770.	0.	308.	85.	1287.00
.76	6.99	1.39	.00	.018	.030	.000	.000	1275.20	2.27
.000402	500.	500.	500.	3	0	0	.00	1165.32	1167.59

FLOW DISTRIBUTION FOR SECNO= 11100.00 CWSEL= 1284.94

STA=	2.	12.	82.	90.	100.	1190.
PER Q=	2.2	64.3	2.4	.3	30.8	
AREA=	47.4	681.4	45.9	17.3	1770.4	
VEL=	3.8	7.5	4.2	1.4	1.4	
DEPTH=	4.9	9.7	5.7	1.7	1.7	

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

1490 NH CARD USED
#SECNO 11200.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.50 ELREA= 1287.00

11200.00	3.39	1285.39	.00	.00	1285.59	.20	.08	.03	1285.50
8000.	0.	8000.	0.	0.	2245.	0.	313.	88.	1287.00
.76	.00	3.56	.00	.000	.030	.000	.000	1282.00	91.24
.002177	100.	100.	100.	3	0	0	.00	1172.91	1264.15

FLOW DISTRIBUTION FOR SECNO= 11200.00 CWSEL= 1285.39

STA= 91. 1380.
PER Q= 100.0
AREA= 2245.4
VEL= 3.6
DEPTH= 1.9

1490 NH CARD USED
#SECNO 11400.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3710 WSEL ASSUMED BASED ON MIN DIFF

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.60 ELREA= 1287.00

11400.00	3.60	1285.60	1285.33	.00	1285.76	.16	.38	.09	1285.60
8000.	0.	8000.	0.	0.	2467.	0.	324.	93.	1287.00
.78	.00	3.24	.00	.000	.030	.000	.000	1282.00	90.81
.001663	200.	200.	200.	20	5	0	.00	1212.53	1303.35

FLOW DISTRIBUTION FOR SECNO= 11400.00 CWSEL= 1285.60

STA= 91. 1380.
PER Q= 100.0
AREA= 2467.1
VEL= 3.2
DEPTH= 2.0

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

1490 NH CARD USED
*SECNO 11900.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3710 WSEL ASSUMED BASED ON MIN DIFF

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.80 ELREA= 1287.00

11900.00	3.80	1285.80	1285.41	.00	1286.09	.28	.24	.72	1285.80
8000.	4571.	3429.	0.	822.	2721.	0.	359.	108.	1287.00
.82	5.56	1.26	.00	.018	.030	.000	.000	1282.00	1.20
.000230	500.	500.	500.	20	8	0	.00	1341.46	1342.66

FLOW DISTRIBUTION FOR SECNO= 11900.00 CWSEL= 1285.80

STA=	1.	12.	82.	91.	1380.
PER Q=	2.0	53.5	1.7	42.9	
AREA=	53.1	721.2	47.9	2721.1	
VEL=	3.0	5.9	2.9	1.3	
DEPTH=	5.2	10.3	5.2	2.2	

1490 NH CARD USED
*SECNO 12300.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.90 ELREA= 1288.00

12300.00	3.92	1285.92	.00	.00	1286.18	.26	.09	.00	1285.90
8000.	4425.	3575.	0.	824.	2870.	0.	392.	120.	1288.00
.85	5.37	1.25	.00	.018	.030	.000	.000	1282.00	1.18
.000214	400.	400.	400.	3	0	0	.00	1363.91	1365.09

FLOW DISTRIBUTION FOR SECNO= 12300.00 CWSEL= 1285.92

STA=	1.	12.	82.	91.	1380.
PER Q=	1.9	51.7	1.7	44.7	
AREA=	53.3	722.5	48.1	2869.7	
VEL=	2.9	5.7	2.8	1.2	
DEPTH=	5.2	10.3	5.2	2.3	

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

1490 NH CARD USED
#SECNO 12400.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.70 ELREA= 1287.00

12400.00	10.25	1285.95	.00	.00	1286.20	.25	.02	.00	1283.70
8000.	4380.	3620.	0.	819.	2904.	0.	400.	123.	1287.00
.86	5.35	1.25	.00	.018	.030	.000	.000	1275.70	1.26
.000212	100.	100.	100.	0	0	0	.00	1367.96	1369.22

FLOW DISTRIBUTION FOR SECNO= 12400.00 CWSEL= 1285.95

STA=	1.	12.	82.	90.	1380.
PER Q=	1.9	50.9	2.0	45.2	
AREA=	52.5	717.0	49.9	2903.8	
VEL=	2.8	5.7	3.2	1.2	
DEPTH=	5.1	10.2	6.2	2.3	

1490 NH CARD USED
#SECNO 12900.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1283.90 ELREA= 1287.00

12900.00	10.17	1286.07	.00	.00	1286.31	.24	.11	.00	1283.90
8000.	4274.	3726.	0.	812.	2990.	0.	444.	139.	1287.00
.90	5.26	1.25	.00	.018	.030	.000	.000	1275.90	1.34
.000208	500.	500.	500.	1	0	0	.00	1385.87	1387.21

FLOW DISTRIBUTION FOR SECNO= 12900.00 CWSEL= 1286.07

STA=	1.	12.	82.	90.	1500.
PER Q=	1.8	49.7	2.0	46.6	
AREA=	51.6	711.2	49.3	2989.9	
VEL=	2.8	5.6	3.2	1.2	
DEPTH=	5.1	10.2	6.2	2.3	

1490 NH CARD USED
#SECNO 13200.000

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.00 ELREA= 1287.50

13200.00	10.14	1286.14	.00	.00	1286.37	.23	.06	.00	1284.00
8000.	4198.	3802.	0.	809.	3058.	0.	470.	149.	1287.50
.92	5.19	1.24	.00	.018	.030	.000	.000	1276.00	.87
.000203	300.	300.	300.	0	0	0	.00	1394.73	1395.60

FLOW DISTRIBUTION FOR SECNO= 13200.00 CWSEL= 1286.14

STA=	1.	11.	81.	89.	1500.
PER Q=	1.8	48.8	1.9	47.5	
AREA=	51.3	709.1	49.0	3057.6	
VEL=	2.8	5.5	3.1	1.2	
DEPTH=	5.1	10.1	6.1	2.3	

1490 NH CARD USED
*SECNO 13600.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1284.20 ELREA= 1288.00

13600.00	10.04	1286.24	.00	.00	1286.45	.21	.08	.00	1284.20
8000.	4014.	3986.	0.	803.	3218.	0.	506.	162.	1288.00
.96	5.00	1.24	.00	.018	.030	.000	.000	1276.20	.77
.000191	400.	400.	400.	2	0	0	.00	1408.62	1409.38

FLOW DISTRIBUTION FOR SECNO= 13600.00 CWSEL= 1286.24

STA=	1.	11.	81.	89.	1500.
PER Q=	1.7	46.6	1.8	49.8	
AREA=	51.4	703.1	48.4	3217.8	
VEL=	2.7	5.3	3.0	1.2	
DEPTH=	5.0	10.0	6.0	2.4	

1490 NH CARD USED
*SECNO 13700.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.20 ELREA= 1288.70

13700.00	4.21	1286.41	.00	.00	1286.50	.08	.03	.01	1287.20
8000.	0.	8000.	0.	0.	3428.	0.	515.	165.	1288.70
.97	.00	2.33	.00	.000	.030	.000	.000	1282.20	93.75
.000632	100.	100.	100.	2	0	0	.00	1335.64	1429.39

FLOW DISTRIBUTION FOR SECNO= 13700.00 CWSEL= 1286.41

STA= 94. 1500.
PER Q= 100.0
AREA= 3427.8
VEL= 2.3
DEPTH= 2.6

#SECNO 13800.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1287.20 ELREA= 1288.70

13800.00	4.28	1286.48	.00	.00	1286.56	.08	.06	.00	1287.20
8000.	0.	8000.	0.	0.	3515.	0.	523.	168.	1288.70
.98	.00	2.28	.00	.000	.030	.000	.000	1282.20	93.61
.000586	100.	100.	100.	2	0	0	.00	1343.57	1437.17

FLOW DISTRIBUTION FOR SECNO= 13800.00 CWSEL= 1286.48

STA= 94. 1500.
PER Q= 100.0
AREA= 3514.7
VEL= 2.3
DEPTH= 2.6

THIS RUN EXECUTED 8/30/90 8:17:16

****
HEC2 RELEASE DATED SEPT 88
****

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

ARIZONA CANAL INTERCEPTO

SUMMARY PRINTOUT TABLE 120

	SECNO	CWSEL	EG	VCH	10*KS	DEPTH	TOPWID	CLSTA	BW	STCHL	XLBEL	STCHR	RBEL
	591.200	1280.50	1280.87	4.91	2.70	9.10	56.00	.00	.01	20.00	1281.40	76.00	1281.40
	605.200	1280.50	1280.88	4.90	2.70	9.10	56.00	.00	.01	20.00	1281.40	76.00	1281.40
*	631.200	1280.72	1280.90	3.38	1.11	9.32	88.65	.00	.01	.00	1281.40	90.00	1281.40
	1000.000	1280.76	1280.94	3.40	1.13	9.26	88.71	.00	.01	.00	1281.40	90.00	1281.40
	1200.000	1280.79	1280.97	3.39	1.12	9.29	88.76	.00	.01	.00	1281.40	90.00	1281.40
	1600.000	1280.83	1281.01	3.41	1.14	9.23	88.76	.00	.01	.00	1281.70	90.00	1281.20
	1895.000	1280.86	1281.06	3.59	1.62	9.16	81.90	.00	.01	7.50	1283.20	93.80	1283.30
	1985.000	1280.88	1281.08	3.59	1.62	9.18	81.91	.00	.01	7.50	1283.20	93.80	1283.30
	2500.000	1280.96	1281.15	3.49	1.22	9.06	88.03	.00	.01	.00	1283.30	91.00	1281.60
	2900.000	1281.00	1281.20	3.55	1.28	9.00	87.02	.00	.01	.00	1282.90	89.00	1281.10
	3155.100	1281.04	1281.23	3.53	1.27	8.94	88.62	.00	.01	.00	1282.90	91.00	1281.60
	3365.000	1281.07	1281.26	3.54	1.29	8.87	89.49	.00	.01	.00	1282.90	92.00	1281.60
	4000.000	1281.14	1281.35	3.67	1.40	8.74	85.79	.00	.01	.00	1283.10	89.00	1282.70
	4350.000	1281.20	1281.40	3.62	1.38	8.70	88.89	.00	.01	.00	1282.80	93.00	1283.30
	4800.000	1281.26	1281.46	3.60	1.40	8.56	92.34	.00	.01	.00	1282.40	95.00	1282.20
	5300.000	1281.32	1281.54	3.77	1.54	8.42	87.36	.00	.01	.00	1283.10	91.00	1283.10
	5850.000	1281.40	1281.63	3.86	1.64	8.30	86.22	.00	.01	.00	1283.80	91.00	1283.90

	SECNO	CWSEL	EG	VCH	10*KS	DEPTH	TOPWID	CLSTA	BW	STCHL	XLBEL	STCHR	RBEL
	5900.000	1281.41	1281.64	3.89	1.70	8.21	86.42	.00	.01	.00	1284.20	91.80	1284.00
	6010.000	1281.43	1281.66	3.89	1.69	8.23	86.45	.00	.01	.00	1284.20	91.80	1284.00
	6117.000	1281.46	1281.68	3.81	1.59	8.26	123.25	.00	.01	.00	1284.20	88.30	1280.50
	6337.000	1281.37	1281.79	5.21	3.06	8.07	108.14	.00	.01	.00	1284.20	88.30	1280.80
	6557.000	1281.31	1281.93	6.33	4.63	7.91	112.24	.00	.01	.00	1284.50	88.30	1280.70
	6777.000	1281.29	1282.11	7.28	6.24	7.79	110.29	.00	.01	.00	1284.50	88.30	1280.80
	6997.000	1281.31	1282.32	8.06	7.75	7.71	110.15	.00	.01	.00	1285.00	88.60	1281.00
	7217.000	1281.41	1282.54	8.55	8.72	7.71	110.21	.00	.01	.00	1285.00	88.60	1281.00
	7329.000	1281.54	1282.64	8.41	8.37	7.84	86.20	.00	.01	.00	1285.00	92.30	1284.00
	7431.000	1281.73	1282.79	8.26	7.85	8.03	85.91	.00	.01	.00	1285.00	92.30	1284.70
	7452.000	1281.90	1282.91	8.06	7.29	8.20	86.27	.00	.01	.00	1285.00	92.30	1284.70
	7458.000	1281.91	1282.92	8.06	7.28	8.21	86.28	.00	.01	.00	1285.00	92.30	1284.70
	7499.000	1281.94	1283.03	8.38	12.06	8.14	83.42	.00	.01	.00	1285.00	92.00	1285.00
	7532.000	1282.00	1283.08	8.31	11.77	8.20	83.54	.00	.01	.00	1285.00	92.00	1285.00
*	7680.000	1283.02	1283.30	4.31	9.07	11.82	807.09	220.00	100.00	92.20	1285.00	1285.00	1285.00
	7760.000	1283.11	1283.37	4.10	7.76	11.83	814.79	250.00	100.00	92.00	1285.00	1285.00	1285.00
*	7772.000	1282.96	1283.44	5.56	2.26	11.67	146.69	250.00	100.00	91.90	1284.90	1285.00	1285.00
	8100.000	1283.43	1283.58	3.08	3.72	11.79	956.07	250.00	100.00	92.50	1285.00	1520.00	1285.00
	8600.000	1283.62	1283.76	3.02	3.51	11.47	964.03	250.00	100.00	92.50	1285.20	1680.00	1285.50
	8700.000	1283.66	1283.79	2.99	3.66	11.41	1022.75	250.00	100.00	91.00	1283.80	1700.00	1286.00
	8920.000	1283.74	1283.87	2.94	3.55	11.28	1042.56	250.00	100.00	91.00	1283.90	1700.00	1286.00
	9140.000	1283.82	1283.95	2.93	3.61	11.14	1061.60	250.00	100.00	92.00	1284.00	1600.00	1286.00
	9360.000	1283.87	1284.08	3.65	5.97	10.97	894.66	250.00	100.00	92.00	1284.00	1490.00	1286.00
	9460.000	1283.93	1284.13	3.59	5.80	10.93	913.19	250.00	100.00	92.00	1284.00	1490.00	1286.00
*	9600.000	1283.97	1284.18	3.97	1.83	10.83	296.88	250.00	100.00	90.50	1282.50	470.00	1290.00
	9770.000	1284.00	1284.21	3.92	1.87	10.69	306.90	250.00	100.00	90.50	1282.50	1450.00	1290.00

	SECNO	CWSEL	EG	VCH	10*KS	DEPTH	TOPWID	CLSTA	BW	STCHL	XLBEL	STCHR	RBEL
*	9800.000	1284.23	1284.23	.64	.04	10.89	1768.82	250.00	100.00	90.00	1282.50	1800.00	1286.00
*	9885.000	1284.06	1284.31	3.12	5.45	9.36	773.87	200.00	115.00	90.00	1282.50	1220.00	1286.00
	9900.000	1284.02	1284.36	3.31	7.71	9.22	752.14	.00	.01	90.00	1282.50	1220.00	1286.00
	10000.000	1284.12	1284.44	3.20	7.08	9.32	784.29	.00	.01	90.00	1282.50	1220.00	1286.00
	10600.000	1283.98	1285.14	1.51	7.92	8.98	832.59	.00	.01	100.00	1283.20	1550.00	1286.90
*	11100.000	1284.94	1285.48	1.39	4.02	9.74	1165.32	.00	.01	100.00	1283.20	1550.00	1287.00
*	11200.000	1285.39	1285.59	3.56	21.77	3.39	1172.91	.00	.01	90.80	1285.50	1550.00	1287.00
*	11400.000	1285.60	1285.76	3.24	16.63	3.60	1212.53	.00	.01	90.80	1285.60	1500.00	1287.00
*	11900.000	1285.80	1286.09	1.26	2.30	3.80	1341.46	.00	.01	90.80	1285.80	1500.00	1287.00
	12300.000	1285.92	1286.18	1.25	2.14	3.92	1363.91	.00	.01	90.80	1285.90	1680.00	1288.00
	12400.000	1285.95	1286.20	1.25	2.12	10.25	1367.96	.00	.01	89.50	1283.70	1680.00	1287.00
	12900.000	1286.07	1286.31	1.25	2.08	10.17	1385.87	.00	.01	89.50	1283.90	1500.00	1287.00
	13200.000	1286.14	1286.37	1.24	2.03	10.14	1394.73	.00	.01	89.00	1284.00	1680.00	1287.50
	13600.000	1286.24	1286.45	1.24	1.91	10.04	1408.62	.00	.01	89.00	1284.20	1680.00	1288.00
*	13700.000	1286.41	1286.50	2.33	6.32	4.21	1335.64	.00	.01	92.00	1287.20	1680.00	1288.70
	13800.000	1286.48	1286.56	2.28	5.86	4.28	1343.57	.00	.01	92.00	1287.20	1680.00	1288.70

ARIZONA CANAL INTERCEPTO

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	591.200	.00	.00	.00	1271.40	2500.00	1280.50	.00	1280.87	2.70	4.91	509.60	1520.16
	605.200	14.00	.00	.00	1271.40	2500.00	1280.50	.00	1280.88	2.70	4.90	509.81	1521.11
*	631.200	26.00	.00	.00	1271.40	2500.00	1280.72	.00	1280.90	1.11	3.38	739.63	2375.89
	1000.000	369.00	.00	.00	1271.50	2500.00	1280.76	.00	1280.94	1.13	3.40	735.14	2352.54
	1200.000	200.00	.00	.00	1271.50	2500.00	1280.79	.00	1280.97	1.12	3.39	737.12	2362.09
	1600.000	400.00	.00	.00	1271.60	2500.00	1280.83	.00	1281.01	1.14	3.41	732.85	2340.53
	1895.000	295.00	1284.30	1283.30	1271.70	2500.00	1280.86	.00	1281.06	1.62	3.59	696.05	1963.79
	1985.000	90.00	1284.30	1283.30	1271.70	2500.00	1280.88	.00	1281.08	1.62	3.59	696.79	1966.80
	2500.000	515.00	.00	.00	1271.90	2500.00	1280.96	.00	1281.15	1.22	3.49	715.80	2262.48
	2900.000	400.00	.00	.00	1272.00	2500.00	1281.00	.00	1281.20	1.28	3.55	703.37	2213.49
	3155.100	255.00	.00	.00	1272.10	2500.00	1281.04	.00	1281.23	1.27	3.53	708.76	2220.99
	3365.000	210.00	.00	.00	1272.20	2500.00	1281.07	.00	1281.26	1.29	3.54	707.11	2204.49
	4000.000	635.00	.00	.00	1272.40	2500.00	1281.14	.00	1281.35	1.40	3.67	681.38	2112.70
	4350.000	350.00	.00	.00	1272.50	2500.00	1281.20	.00	1281.40	1.38	3.62	690.25	2127.30
	4800.000	450.00	.00	.00	1272.70	2500.00	1281.26	.00	1281.46	1.40	3.60	694.66	2112.20
	5300.000	500.00	.00	.00	1272.90	2500.00	1281.32	.00	1281.54	1.54	3.77	663.31	2011.81
	5850.000	550.00	.00	.00	1273.10	2500.00	1281.40	.00	1281.63	1.64	3.86	648.48	1951.00
	5900.000	50.00	.00	.00	1273.20	2500.00	1281.41	.00	1281.64	1.70	3.89	642.05	1918.88
	6010.000	110.00	.00	.00	1273.20	2500.00	1281.43	.00	1281.66	1.69	3.89	643.39	1924.96
	6117.000	107.00	.00	.00	1273.20	2500.00	1281.46	.00	1281.68	1.59	3.81	699.86	1985.21
	6337.000	220.00	.00	.00	1273.30	3303.00	1281.37	.00	1281.79	3.06	5.21	655.79	1886.69
	6557.000	220.00	.00	.00	1273.40	3930.00	1281.31	.00	1281.93	4.63	6.33	643.52	1827.31
	6777.000	220.00	.00	.00	1273.50	4425.00	1281.29	.00	1282.11	6.24	7.28	620.74	1770.96
	6997.000	220.00	.00	.00	1273.60	4832.00	1281.31	.00	1282.32	7.75	8.06	609.16	1735.30

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	7217.000	220.00	.00	.00	1273.70	5150.00	1281.41	.00	1282.54	8.72	8.55	621.93	1744.43
	7329.000	112.00	.00	.00	1273.70	5150.00	1281.54	.00	1282.64	8.37	8.41	612.02	1780.25
	7431.000	180.00	.00	.00	1273.70	5150.00	1281.73	.00	1282.79	7.85	8.26	623.72	1838.51
	7452.000	161.00	1284.90	1283.90	1273.70	5150.00	1281.90	.00	1282.91	7.29	8.06	638.95	1906.97
	7458.000	6.00	1284.90	1283.90	1273.70	5150.00	1281.91	.00	1282.92	7.28	8.06	639.32	1908.64
	7499.000	80.00	1286.00	1284.00	1273.80	5150.00	1281.94	.00	1283.03	12.06	8.38	614.31	1483.21
	7532.000	33.00	1286.00	1284.00	1273.80	5150.00	1282.00	.00	1283.08	11.77	8.31	619.64	1501.19
*	7680.000	148.00	.00	.00	1271.20	8000.00	1283.02	.00	1283.30	9.07	4.31	1855.38	2656.69
	7760.000	80.00	.00	.00	1271.28	8000.00	1283.11	.00	1283.37	7.76	4.10	1951.75	2872.55
*	7772.000	12.00	1284.70	-999999.00	1271.29	8000.00	1282.96	.00	1283.44	2.26	5.56	1439.72	5316.60
	8100.000	350.00	.00	.00	1271.64	8000.00	1283.43	.00	1283.58	3.72	3.08	2593.54	4148.85
	8600.000	500.00	.00	.00	1272.14	8000.00	1283.62	.00	1283.76	3.51	3.02	2646.20	4269.05
	8700.000	100.00	.00	.00	1272.24	8000.00	1283.66	.00	1283.79	3.66	2.99	2675.13	4181.12
	8920.000	220.00	.00	.00	1272.46	8000.00	1283.74	.00	1283.87	3.55	2.94	2719.60	4243.39
	9140.000	220.00	.00	.00	1272.68	8000.00	1283.82	.00	1283.95	3.61	2.93	2727.56	4213.35
	9360.000	220.00	.00	.00	1272.90	8000.00	1283.87	.00	1284.08	5.97	3.65	2190.98	3275.18
	9460.000	100.00	.00	.00	1273.00	8000.00	1283.93	.00	1284.13	5.80	3.59	2227.87	3322.24
*	9600.000	140.00	.00	.00	1273.14	8000.00	1283.97	.00	1284.18	1.83	3.97	2232.05	5911.02
	9770.000	170.00	.00	.00	1273.31	8000.00	1284.00	.00	1284.21	1.87	3.92	2244.56	5842.49
*	9800.000	30.00	.00	.00	1273.34	8000.00	1284.23	.00	1284.23	.04	.64	12750.95	38274.92
*	9885.000	85.00	.00	.00	1274.70	8000.00	1284.06	.00	1284.31	5.45	3.12	2155.44	3425.68
	9900.000	39.00	.00	.00	1274.80	8000.00	1284.02	.00	1284.36	7.71	3.31	1885.51	2881.13
	10000.000	100.00	.00	.00	1274.80	8000.00	1284.12	.00	1284.44	7.08	3.20	1964.94	3006.41
	10600.000	600.00	.00	.00	1275.00	8000.00	1283.98	1283.74	1285.14	7.92	1.51	1548.83	2841.87
*	11100.000	500.00	.00	.00	1275.20	8000.00	1284.94	.00	1285.48	4.02	1.39	2562.37	3991.17
*	11200.000	100.00	.00	.00	1282.00	8000.00	1285.39	.00	1285.59	21.77	3.56	2245.45	1714.61

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	11400.000	200.00	.00	.00	1282.00	8000.00	1285.60	1285.33	1285.76	16.63	3.24	2467.07	1961.87
*	11900.000	500.00	.00	.00	1282.00	8000.00	1285.80	1285.41	1286.09	2.30	1.26	3543.35	5275.04
	12300.000	400.00	.00	.00	1282.00	8000.00	1285.92	.00	1286.18	2.14	1.25	3693.61	5464.79
	12400.000	100.00	.00	.00	1275.70	8000.00	1285.95	.00	1286.20	2.12	1.25	3723.24	5489.04
	12900.000	500.00	.00	.00	1275.90	8000.00	1286.07	.00	1286.31	2.08	1.25	3802.00	5546.46
	13200.000	300.00	.00	.00	1276.00	8000.00	1286.14	.00	1286.37	2.03	1.24	3867.04	5617.27
	13600.000	400.00	.00	.00	1276.20	8000.00	1286.24	.00	1286.45	1.91	1.24	4020.68	5793.62
*	13700.000	100.00	.00	.00	1282.20	8000.00	1286.41	.00	1286.50	6.32	2.33	3427.84	3181.88
	13800.000	100.00	.00	.00	1282.20	8000.00	1286.48	.00	1286.56	5.86	2.28	3514.67	3304.28

ARIZONA CANAL INTERCEPTO

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	591.200	2500.00	1280.50	.00	.00	.00	56.00	.00
	605.200	2500.00	1280.50	.00	.00	.00	56.00	14.00
*	631.200	2500.00	1280.72	.00	.22	.00	88.65	26.00
	1000.000	2500.00	1280.76	.00	.04	.00	88.71	369.00
	1200.000	2500.00	1280.79	.00	.02	.00	88.76	200.00
	1600.000	2500.00	1280.83	.00	.04	.00	88.76	400.00
	1895.000	2500.00	1280.86	.00	.03	.00	81.90	295.00
	1985.000	2500.00	1280.88	.00	.02	.00	81.91	90.00
	2500.000	2500.00	1280.96	.00	.08	.00	88.03	515.00
	2900.000	2500.00	1281.00	.00	.05	.00	87.02	400.00
	3155.100	2500.00	1281.04	.00	.04	.00	88.62	255.00
	3365.000	2500.00	1281.07	.00	.03	.00	89.49	210.00
	4000.000	2500.00	1281.14	.00	.07	.00	85.79	635.00
	4350.000	2500.00	1281.20	.00	.05	.00	88.89	350.00
	4800.000	2500.00	1281.26	.00	.07	.00	92.34	450.00
	5300.000	2500.00	1281.32	.00	.06	.00	87.36	500.00
	5850.000	2500.00	1281.40	.00	.08	.00	86.22	550.00
	5900.000	2500.00	1281.41	.00	.01	.00	86.42	50.00
	6010.000	2500.00	1281.43	.00	.02	.00	86.45	110.00
	6117.000	2500.00	1281.46	.00	.03	.00	123.25	107.00
	6337.000	3303.00	1281.37	.00	-.09	.00	108.14	220.00
	6557.000	3930.00	1281.31	.00	-.06	.00	112.24	220.00
	6777.000	4425.00	1281.29	.00	-.02	.00	110.29	220.00
	6997.000	4832.00	1281.31	.00	.02	.00	110.15	220.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	7217.000	5150.00	1281.41	.00	.10	.00	110.21	220.00
	7329.000	5150.00	1281.54	.00	.13	.00	86.20	112.00
	7431.000	5150.00	1281.73	.00	.19	.00	85.91	180.00
	7452.000	5150.00	1281.90	.00	.18	.00	86.27	161.00
	7458.000	5150.00	1281.91	.00	.01	.00	86.28	6.00
	7499.000	5150.00	1281.94	.00	.03	.00	83.42	80.00
	7532.000	5150.00	1282.00	.00	.06	.00	83.54	33.00
*	7680.000	8000.00	1283.02	.00	1.01	.00	807.09	148.00
	7760.000	8000.00	1283.11	.00	.10	.00	814.79	80.00
*	7772.000	8000.00	1282.96	.00	-.15	.00	146.69	12.00
	8100.000	8000.00	1283.43	.00	.46	.00	956.07	350.00
	8600.000	8000.00	1283.62	.00	.19	.00	964.03	500.00
	8700.000	8000.00	1283.66	.00	.04	.00	1022.75	100.00
	8920.000	8000.00	1283.74	.00	.08	.00	1042.56	220.00
	9140.000	8000.00	1283.82	.00	.08	.00	1061.60	220.00
	9360.000	8000.00	1283.87	.00	.05	.00	894.66	220.00
	9460.000	8000.00	1283.93	.00	.07	.00	913.19	100.00
*	9600.000	8000.00	1283.97	.00	.03	.00	296.88	140.00
	9770.000	8000.00	1284.00	.00	.04	.00	306.90	170.00
*	9800.000	8000.00	1284.23	.00	.22	.00	1768.82	30.00
*	9885.000	8000.00	1284.06	.00	-.17	.00	773.87	85.00
	9900.000	8000.00	1284.02	.00	-.04	.00	752.14	39.00
	10000.000	8000.00	1284.12	.00	.10	.00	784.29	100.00
	10600.000	8000.00	1283.98	.00	-.14	.00	832.59	600.00
*	11100.000	8000.00	1284.94	.00	.96	.00	1165.32	500.00
*	11200.000	8000.00	1285.39	.00	.45	.00	1172.91	100.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	11400.000	8000.00	1285.60	.00	.20	.00	1212.53	200.00
*	11900.000	8000.00	1285.80	.00	.21	.00	1341.46	500.00
	12300.000	8000.00	1285.92	.00	.12	.00	1363.91	400.00
	12400.000	8000.00	1285.95	.00	.03	.00	1367.96	100.00
	12900.000	8000.00	1286.07	.00	.12	.00	1385.87	500.00
	13200.000	8000.00	1286.14	.00	.07	.00	1394.73	300.00
	13600.000	8000.00	1286.24	.00	.10	.00	1408.62	400.00
*	13700.000	8000.00	1286.41	.00	.17	.00	1335.64	100.00
	13800.000	8000.00	1286.48	.00	.07	.00	1343.57	100.00

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 631.200 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 7680.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 7772.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 9600.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 9800.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 9885.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 11100.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 11200.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 11400.000 PROFILE= 1 WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO= 11400.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 11900.000 PROFILE= 1 WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO= 11900.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 13700.000 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE