

APPENDIX I

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1	ID SNOWDEN ENGINEERING, INC.
2	ID MUSTANG BAYOU WATERSHED, 100-YR. HYDROGRAPH FOR EXISTING CONDITION
3	ID BRAZORIA COUNTY, C&R DIST. 3, MASTER DRAINAGE STUDY
4	ID FILE NAME: MBEX100
	*DIAGRAM
5	IT 15 200
6	IO 5 0
	* ***** MUSTANG BAYOU IN FORT BEND COUNTY *****
7	KK SUB1 MUSTANG BAYOU AT B.R.A. CANAL
8	KM RUNOFF FROM SUBAREA 1
9	KO
10	BA .62
11	PH 1 .9 2.01 4.55 6.05 6.85 8.4 10.45 12.5
12	LE .3 1. 1.3 .55 3.5
13	UC 1.5 11.9
14	KK 42000 MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH
15	KM ROUTE FLOWS FROM SUBAREA 1 TO SUBAREA 2
16	KO
17	RS 3 FLOW -1
18	SV 0 17 27 36 43 54
19	SQ 0 94 188 282 376 470
20	SE 66.80 70.88 72.81 74.20 74.76 75.21
21	KK SUB2 MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH
22	KM RUNOFF FROM SUBAREA 2
23	KO
24	BA .27 0
25	PH 1 .9 2.01 4.55 6.05 6.85 8.4 10.45 12.5
26	LE .3 1. 1.3 .55 3.5
27	UC .8 2.1
28	KK 42000 MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH
29	KM COMBINE HYDRS FROM SUBAREA 1 & SUBAREA 2
30	KO
31	HC 2
32	KK 36700 MUSTANG BAYOU AT RELIEF CHANNEL
33	KM ROUTE HYDRO FROM SUBAREAS 1&2 TO SUBAREA 3
34	KO
35	RS 8 FLOW -1
36	SV 0 28 45 62 72 83
37	SQ 0 94 188 282 376 470

38 SE 66.30 70.76 72.70 74.08 74.59 75.00

39 KK SUB3 MUSTANG BAYOU AT RELIEF CHANNEL

40 KM RUNOFF FROM SUBAREA 3

41 KO

42 BA .18 0

43 PH 1 .9 2.01 4.55 6.05 6.85 8.4 10.45 12.5

44 LE .3 1. 1.3 .55

45 UC 1.3 5.2

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

46 KK SUB4 MUSTANG BAYOU AT RELIEF CHANNEL

47 KM RUNOFF FROM SUBAREA 4

48 KO

49 BA .37 0

50 PH 1 .9 2.01 4.55 6.05 6.85 8.4 10.45 12.5

51 LE .3 1. 1.3 .55 1.8

52 UC 1.2 6.4

53 KK 36700 MUSTANG BAYOU AT RELIEF CHANNEL

54 KM COMBINE HYDROS FROM SUBAREAS 1&2 WITH SUBAREA 3 & SUBAREA 4

55 KO

56 HC 3

57 KK 36700 MUSTANG BAYOU AT RELIEF CHANNEL

58 KM SUBTRACT FLOW WHICH GOES DOWN RELIEF CHANNEL

59 KO

60 DT DIVERT

61 DI 0 80 164 165 300 500 700

62 DB 0 0 0 164 299 499 699

63 KK 32820 MUSTANG BAYOU AT QUAIL GLEN DITCH

64 KM ROUTE FLOWS FROM SUBAREAS 1-4 TO SUBAREAS 6,7,&8

65 KO

66 RS 7 FLOW -1

67 SV 0 15 28 63 87 107

68 SQ 0 162 324 485 647 809

69 SE 65.56 70.58 72.51 73.91 74.41 74.80

70 KK SUB5 QUAIL GLEN DITCH AT B.R.A. CANAL

71 KM RUNOFF FROM SUBAREA 5

72 KO

73 BA .25 0

74 PH 1 .9 2.01 4.55 6.05 6.85 8.4 10.45 12.5

75 LE .3 1. 1.3 .55 35

76 UC .4 1.6

77 KK 32820 MUSTANG BAYOU AT QUAIL GLEN DITCH

78 KM ROUTE FLOWS FROM SUBAREA 5 TO SUBAREAS 6,7,&8

79 KO

80 RS 2 FLOW -1

81 RC .07 .04 .07 3500 .0006

82 RX 0 1 100 130 140 170 270 271

83 RY 78.00 77.00 77.00 67.50 67.50 76.00 77.00 78.00

84 KK SUB6 MUSTANG BAYOU AT QUAIL GLEN DITCH

85 KM RUNOFF FROM SUBAREA 6

86 KO

87 BA .07 0

88 PH 1 .9 2.01 4.55 6.05 6.85 8.4 10.45 12.5

89 LE .3 1. 1.3 .55

90 UC .6 6.3

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

91 KK SUB7 MUSTANG BAYOU AT QUAIL GLEN DITCH  
 92 KM RUNOFF FROM SUBAREA 7  
 93 KO  
 94 BA .36 0  
 95 PH 1 .9 2.01 4.55 6.05 6.85 8.4 10.45 12.5  
 96 LE .3 1. 1.3 .55  
 97 UC 2.1 9.9

98 KK SUB8 MUSTANG BAYOU AT QUAIL GLEN DITCH  
 99 KM RUNOFF FROM SUBAREA 8  
 100 KO  
 101 BA .24 0  
 102 PH 1 .9 2.01 4.55 6.05 6.85 8.4 10.45 12.5  
 103 LE .3 1. 1.3 .55  
 104 UC 1.2 8.

105 KK 32820 MUSTANG BAYOU AT QUAIL GLEN DITCH  
 106 KM COMBINE HYDROS FROM SUBAREAS 1-4 WITH SUBAREAS 5,6,7,&8  
 107 KO  
 108 HC 5

109 KK 31600 MUSTANG BAYOU AT MISSOURI CITY E.T.J.  
 110 KM ROUTE FLOWS TO SUBAREA 9  
 111 KO  
 112 RS 1 FLOW -1  
 113 SV 0 4 7 16 22 27  
 114 SR 0 178 356 534 712 890  
 115 SE 65.30 70.37 72.27 73.72 74.18 74.53

116 KK SUB9 MUSTANG BAYOU AT MISSOURI CITY E.T.J.  
 117 KM RUNOFF FROM SUBAREA 9  
 118 KO  
 119 BA .21 0  
 120 PH 1 .9 2.01 4.55 6.05 6.85 8.4 10.45 12.5  
 121 LE .3 1. 1.3 .55  
 122 UC .5 7.3

123 KK 31600 MUSTANG BAYOU AT MISSOURI CITY E.T.J.  
 124 KM COMBINE HYDROS FROM SUBAREAS 1-8 WITH SUBAREA 9  
 125 KO  
 126 HC 2

127 KK 9T09A  
 128 KM ROUTE FLOW TO 9A  
 129 KO  
 130 RS 9.6 FLOW -1  
 131 SV 0 104 252 403 569  
 132 SR 0 200 400 600 800  
 133 SE 62.2 69.3 70.0 70.7 71.3  
 HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

134 KK 9A MUSTANG BAYOU AT 2.5 MILE DOWNSTREAM FROM MISSOURI CITY ETJ  
 135 KM RUNOFF FROM SUBAREA 9A  
 136 KO  
 137 BA 1.3  
 138 PH 1 0 .9 2.01 4.55 6.05 6.85 8.4 10.45 12.5  
 139 LE .5 0 3 .6 1.0  
 140 UC 2.46 12.99

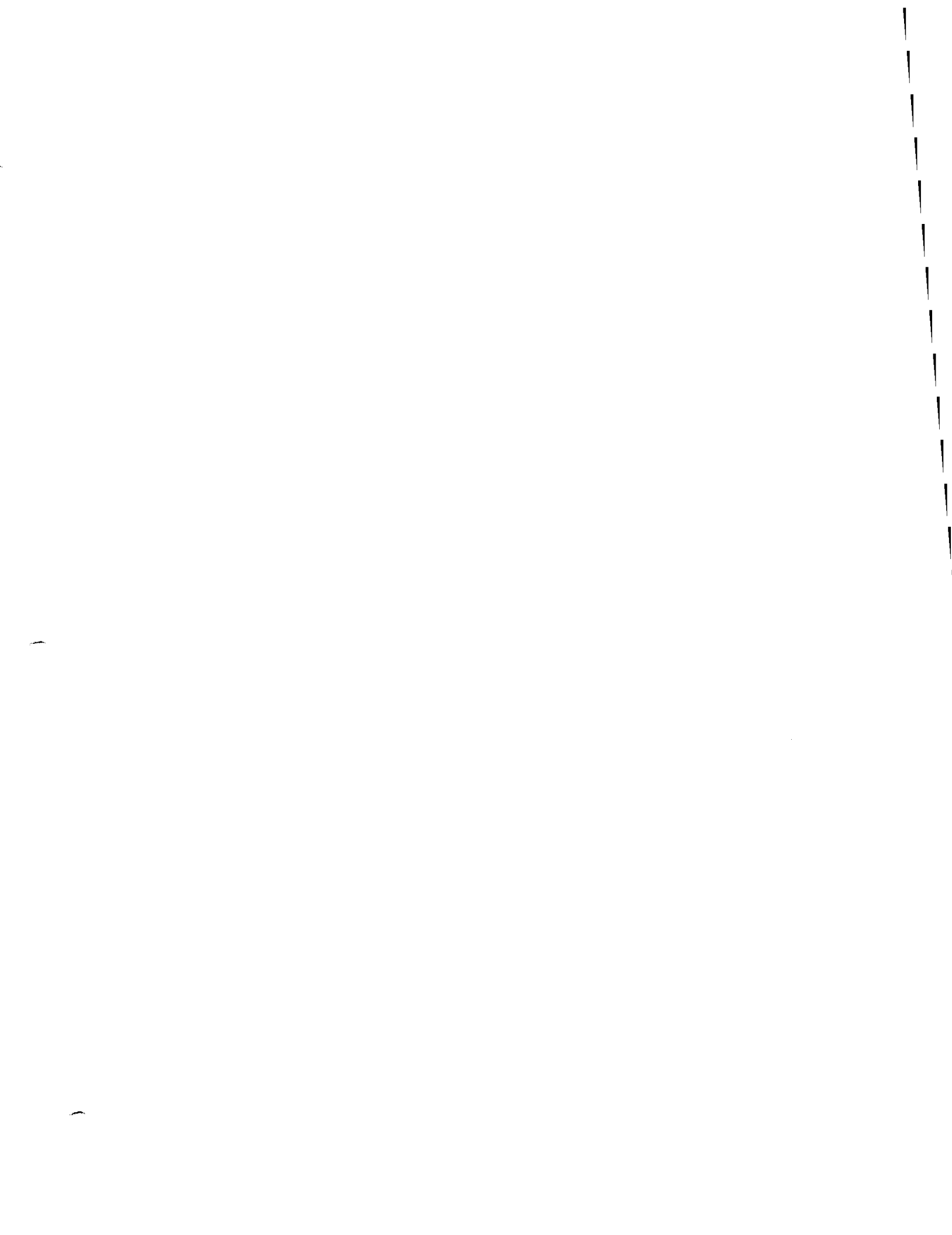
141	KK	9A										
142	KM		COMBINE HYDROS AT 9A									
143	KO											
144	HC	2										
145	KK	9Ato9B										
146	KM		ROUTE FLOW TO 9B									
147	KO											
148	RS	8.9	FLOW	-1								
149	SV	0	85	110	308	687						
150	SQ	0	200	400	600	800						
151	SE	61.2	67	67.6	68.5	69.3						
152	KK	9B	MUSTANG BAYOU AT M.P.R.R.									
153	KM		RUNOFF FROM SUBAREA 9B									
154	KO											
155	BA	1.93										
156	PH	1	0	.9	2.01	4.55	6.05	6.85	8.4	10.45	12.5	
157	LE	.5	0	3	.6	2						
158	UC	2.65	15.71									
159	KK	9B										
160	KM		COMBINE HYDROS AT 9B									
161	KO											
162	HC	2										
163	KK	9Bto10										
164	KM		ROUTE FLOWS TO 10									
165	KO											
166	RS	2.2	FLOW	-1								
167	SV	0	14	22	37	63						
168	SQ	0	200	400	600	800						
169	SE	59	63.6	65.2	66.5	67.3						
170	KK	SUB10										
171	KM		RUNOFF FROM SUBAREA 10									
172	KO											
173	BA	1.11										
174	PH	1	0	0.9	2.01	4.55	6.05	6.85	8.4	10.45	12.5	
175	LE	.5	0	3	.6	6						
176	UC	0.96	5.01									

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

177	KK	SUB10										
178	KM		COMBINE HYDROS AT 10									
179	KO											
180	HC	2										
	*		***** MUSTANG BAYOU IN BRAZORIA COUNTY *****									
181	KK	10T01										
182	KM		ROUTE FLOW TO 1									
183	KO											
184	RS	17	FLOW	-1								
185	SV		236	686	2063	4657						
186	SQ		500	1000	2000	4000						
187	SE	52.9	61.3	62.5	63.7	65.2						
188	KK	SUB1	BRAZORIA COUNTY, STATE HWY 288									
189	KM		RUNOFF FROM SUBAREA 1									
190	KO											
191	BA	4.14										
192	PH	1		.92	2.03	4.65	6.25	7.15	8.75	10.8	13.0	







299 HC 2  
 \* \*\*\*\*\* DITCH M-1 \*\*\*\*\*  
 300 KK SUB1 DITCH M-1 AT WEST DUMBLE  
 301 KM RUNOFF FROM SUBAREA 1  
 302 KO  
 303 BA .14  
 304 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 305 LU .8 .08 17.5  
 306 UC .51 2.37

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

307 KK 1T02  
 308 KM ROUTE FLOWS FROM 1 TO 2  
 309 KO  
 310 RS 1.5 FLOW -1  
 311 SV 0 33 258 247 567 845 1130  
 312 SQ 250 500 1000 2000 3000 4000 0  
 313 SE 29.6 34.62 37.17 37.92 38.41 39.76 40.11 0

314 KK SUB2 DITCH M-1 AT JOHNSON ST.  
 315 KM RUNOFF FROM SUBAREA 2  
 316 KO  
 317 BA 1.02  
 318 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 319 LU .6 .06 32.5  
 320 UC 1.1 2.92

321 KK SUB2  
 322 KM COMBINE HYDROS AT 2  
 323 HC 2

324 KK 2T03  
 325 KM ROUTE FLOWS FROM 2 TO 3  
 326 KO  
 327 RS 2.8 FLOW -1  
 328 SV 0 19 36 229 516 687 870  
 329 SQ 250 500 1000 2000 3000 4000 0 0  
 330 SE 23.4 29.52 31.43 33.35 34.43 34.94 35.3 0 0

331 KK SUB3 DITCH M-1 AT HWY 35  
 332 KM RUNOFF FROM SUBAREA 3  
 333 KO  
 334 BA .68  
 335 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 336 LU .7 .07 20  
 337 UC 1.53 3.42

338 KK SUB3  
 339 KM COMBINE HYDROS AT 3  
 340 HC 2

341 KK 3T04  
 342 KM ROUTE FLOWS FROM 3 TO 4  
 343 KO  
 344 RS 2.7 FLOW -1  
 345 SV 0 33 60 145 466 2133 2400  
 346 SQ 250 500 1000 2000 3000 4000 0  
 347 SE 18.3 24.6 27.41 29.12 30.45 34.09 34.35 0

348 KK SUB4 DITCH M-1 AT PIPELINE CROSSING  
 349 KM RUNOFF FROM SUBAREA 4



351	BA	1.74								
352	PH	1	.92	2.03	4.65	6.25	7.15	8.75	10.8	13
353	LU	.9	.09	8.6						

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

354	UC	2.36	6.28							
355	KK	SUB4								
356	KM	COMBINE HYDROS AT 4								
357	HC	2								
358	KK	4T05								
359	KM	ROUTE FLOWS FROM 4 TO 5								
360	KO									
361	RS	5.8	FLOW	-1						
362	SV	0	36	56	137	630	2513	2695		
363	SQ		250	500	1000	2000	3000	4000	0	
364	SE	12.6	23.42	26.08	27.04	27.72	29.02	29.87	0	
365	KK	SUB5 DITCH M-1 AT BRISCO CANAL								
366	KM	RUNOFF FROM SUBAREA 5								
367	KO									
368	BA	2.18								
369	PH	1	.92	2.03	4.65	6.25	7.15	8.75	10.8	13
370	LU	1.	.1	4.5						
371	UC	3.22	7.79							
372	KK	SUB5								
373	KM	COMBINE HYDROS AT 5								
374	HC	2								
375	KK	5T06								
376	KM	ROUTE FLOWS FROM 5 TO 6								
377	KO									
378	RS	8.9	FLOW	-1						
379	SV	0	21	41	174	418	1370	1930		
380	SQ		250	500	1000	2000	3000	4000	0	
381	SE	13.6	20.75	22.85	25.56	26.01	27.2	29.11	0	
382	KK	SUB6 DITCH M-1 AT MPRR								
383	KM	RUNOFF FROM SUBAREA 6								
384	KO									
385	BA	.38								
386	PH	1	.92	2.03	4.65	6.25	7.15	8.75	10.8	13
387	LU	1	.1	1						
388	UC	1.87	7.62							
389	KK	SUB6								
390	KM	COMBINE HYDROS AT 6								
391	HC	2								
392	KK	SUB6								
393	KM	SUBTRACT FLOW WHICH GOES TO NEW BAYOU								
394	KO									
395	DT	DIVT								
396	DI	0	1000	2000	3000	0				
397	DQ	0	400	800	1200	0				

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

398	KK	6T07	0							
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400	KU									
401	RS	21.3	FLOW	-1						
402	SV	0	42	72	143	647	1662	3414		
403	SQ		250	500	1000	2000	3000	4000	0	
404	SE	6.1	12.43	15	18.46	23.88	26.48	28.54	0	

405 KK SUB7 DITCH M-1 AT CONFLUENCE W/MUSTANG BAYOU  
 406 KM RUNOFF FROM SUBAREA 7  
 407 KO  
 408 BA 1.65  
 409 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 410 LU 1 .1 1  
 411 UC 1.9 8.71

412 KK SUB7  
 413 KM COMBINE HYDROS AT 7  
 414 HC 2  
 \* \*\*\*\*\* MUSTANG BAYOU AT DOWNSTREAM OF DITCH M-1 \*\*\*\*\*

415 KK SUB7  
 416 KM COMBINE HYDROS AT 7  
 417 HC 2

418 KK 7T08  
 419 KM ROUTE FLOWS FROM 7 TO 8  
 420 KO  
 421 RS 9.2 FLOW -1  
 422 SV 177 288 455 1072 1898 2633  
 423 SQ 500 1000 2000 4000 6000 8000  
 424 SE 1 8.4 11.2 13.8 15.4 16.3 16.9

425 KK SUB8 MUSTANG BAYOU AT CONFLUENCE W/PERSIMMON BAYOU  
 426 KM RUNOFF FROM SUBAREA 8  
 427 KO  
 428 BA 3.63  
 429 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 430 LU 1 .1 1  
 431 UC 4.01 29.34

432 KK SUB8  
 433 KM COMBINE HYDROS AT 8  
 434 HC 2

435 KK 8T09  
 436 KM ROUTE FLOWS FROM 8 TO 9  
 437 KO  
 438 RS 6.1 FLOW -1  
 439 SV 141 231 424 801 1191 1563  
 440 SQ 500 1000 2000 4000 6000 8000  
 441 SE 0 7.5 10.4 12.4 13.4 14.2 14.7

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

442 KK SUB9 MUSTANG BAYOU AT CONFLUENCE W/NEW BAYOU  
 443 KM RUNOFF FROM SUBAREA 9  
 444 KO  
 445 BA 1.98  
 446 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 447 LU 1 .1 1  
 448 UC 2.69 12.08

449 KK SUB9  
 450 KM COMBINE HYDROS AT 9

\* \*\*\*\*\* DITCH C-1 \*\*\*\*\*

452 KK SUB1DITCH C-1 AT COUNTY RD 1128  
 453 KM RUNOFF FROM SUBAREA 1  
 454 KO  
 455 BA 1.0  
 456 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 457 LU 1 .1 1  
 458 UC 1.5 7.88

459 KK 1T02  
 460 KM ROUTE FLOWS FROM 1 TO 2  
 461 KO 0  
 462 RS 13.3 FLOW -1  
 463 SV 0 332 458 789 898 999 1092  
 464 SQ 0 500 1000 2000 3000 4000 5000  
 465 SE 44.2 50.4 51.63 52.26 54 54.03 54.1

466 KK SUB2DITCH C-1 AT M.P.R.R.  
 467 KM RUNOFF FROM SUBAREA 2  
 468 KO  
 469 BA 1.12  
 470 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 471 LU .9 .09 8.4  
 472 UC 1.32 8.38

473 KK SUB2  
 474 KM COMBINE HYDROS AT 2  
 475 HC 2

476 KK 2T03  
 477 KM ROUTE FLOWS FROM 2 TO 3  
 478 KO  
 479 RS 7.5 FLOW -1  
 480 SV 0 103 267 898 1530 2288 2510  
 481 SQ 0 500 1000 2000 3000 4000 5000  
 482 SE 32.5 39.56 42.89 45.28 46.76 47.55 47.6

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

483 KK SUB3DITCH C-1 AT DIRT RD  
 484 KM RUNOFF FROM SUBAREA 3  
 485 KO  
 486 BA 3.37  
 487 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 488 LU .9 .09 5.4  
 489 UC 3.06 9.33

490 KK SUB3  
 491 KM COMBINE HYDROS AT 3  
 492 HC 2

493 KK 3T04  
 494 KM ROUTE FLOWS FROM 3 TO 4  
 495 KO  
 496 RS 4.4 FLOW -1  
 497 SV 0 72 115 554 877 1329 2012  
 498 SQ 500 1000 2000 3000 4000 5000  
 499 SE 26.5 35.97 39.31 40.81 41.01 41.24 41.38

500 KK SUB4DITCH C-1 AT HERRING RD  
 501 KM RUNOFF FROM SUBAREA 4  
 502 KO

504	PH	1		.92	2.03	4.65	6.25	7.15	8.75	10.8	13
505	LU	.9	.09	5							
506	UC	3.36	10.92								
507	KK	SUB4									
508	KM	COMBINE HYDRDS AT 4									
509	HC	2									
510	KK	4T05									
511	KM	ROUTE FLOWS FROM 4 TO 5									
512	KD										
513	RS	3.6	FLOW	-1							
514	SV	0	58	117	732	755	1034	1346			
515	SQ		500	1000	2000	3000	4000	5000			
516	SE	23.5	32.12	35.42	36.3	36.37	36.44	36.5			
517	KK	SUB5DITCH C-1 AT COUNTY RD 1462									
518	KM	RUNOFF FROM SUBAREA 5									
519	KD										
520	BA	2.68									
521	PH	1		.92	2.03	4.65	6.25	7.15	8.75	10.8	13
522	LU	1.	.1	4.8							
523	UC	3.1	10.09								
524	KK	SUB5									
525	KM	COMBINE HYDRDS AT 5									
526	HC	2									

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

527	KK	5T06									
528	KM	ROUTE FLOWS FROM 5 TO 6									
529	KD										
530	RS	6.5	FLOW	-1							
531	SV	0	30	50	306	630	850	938			
532	SQ		500	1000	2000	3000	4000	5000			
533	SE	18.1	27.45	30.79	33.9	34.36	34.78	35.2			
534	KK	SUB6DITCH C-1 AT HWY 35									
535	KM	RUNOFF FROM SUBAREA 6									
536	KD										
537	BA	.88									
538	PH	1		.92	2.03	4.65	6.25	7.15	8.75	10.8	13
539	LU	1	.1	1							
540	UC	2.47	10.75								
541	KK	SUB6									
542	KM	COMBINE HYDRDS AT 6									
543	HC	2									
544	KK	6T07									
545	KM	ROUTE FLOWS FROM 6 TO 7									
546	KD										
547	RS	2.2	FLOW	-1							
548	SV	0	62	103	484	1032	1432	1693			
549	SQ		500	1000	2000	3000	4000	5000			
550	SE	13.6	22.01	25.25	29.19	30.31	30.86	31.28			
551	KK	SUB7DITCH C-1 AT BRISCO CANAL									
552	KM	RUNOFF FROM SUBAREA 7									
553	KD										
554	BA	2.64									
555	PH	1		.92	2.03	4.65	6.25	7.15	8.75	10.8	13

557 UC 2.4 11.08

558 KK SUB7  
 559 KM COMBINE HYDROS AT 7  
 560 HC 2

561 KK 7T08  
 562 KM ROUTE FLOWS FROM 7 TO 8  
 563 KO

564 RS	3.0	FLOW	-1						
565 SV	0	43	76	133	336	492	628		
566 SQ		500	1000	2000	3000	4000	5000		
567 SE	5.9	19.04	22.51	26.3	26.88	27.24	27.41		

568 KK SUBDDITCH C-1 AT CONFLUENCE W/NEW BAYOU  
 569 KM RUNOFF FROM SUBAREA 8  
 570 KO  
 571 BA 2.27  
 572 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 573 LU 1 .1 1

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

574 UC 2.55 16.67

575 KK SUB8  
 576 KM COMBINE HYDROS AT 8  
 577 HC 2

578 KK SUB8  
 579 KM SUBTRACT FLOWS WHICH GO BACK TO DITCH C-1  
 580 KO  
 581 DT DIV  
 582 DI 0 1000 2000 3000 4000  
 583 DQ 0 900 1800 2700 3600  
 \* \*\*\*\*\* NEW BAYOU \*\*\*\*\*

584 KK DIVTDITCH M-1 DIVERSION  
 585 KM RETRIEVE HYDROGRAPH  
 586 DR DIVT

587 KK SUB1 NEW BAYOU AT M.P.R.R.  
 588 KM RUNOFF FROM SUBAREA 1  
 589 KO  
 590 BA 1.5  
 591 PH 1 0 0.92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 592 LU 1 0.1 1  
 593 UC 1.98 15.7

594 KK SUB1  
 595 KM COMBINE HYDROS AT 1  
 596 HC 2

597 KK SUB1  
 598 KM COMBINE HYDROS AT 1  
 599 HC 2

600 KK 1T02  
 601 KM ROUTE FLOW TO 2  
 602 KO

603 RS	6.1	FLOW	-1						
604 SV	0	61	100	348	697	1187			
605 SQ		250	500	1000	2000	3000	0	0	
606 SE	7.0	13.94	16.26	17.68	18.72	19.63	0	0	

607	KK	SUB2 NEW BAYOU AT BRISCO CANAL										
608	KM	RUNOFF FROM SUBAREA 2										
609	KO											
610	BA	2.4										
611	PH	1	0	0.92	2.03	4.65	6.25	7.15	8.75	10.8	13	
612	LU	1	.1	1								
613	UC	2.48	14.02									

HEC-1 INPUT

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

614	KK	SUB2										
615	KM	COMBINE HYDROS AT 2										
616	HC	2	0									
617	KK	2T03										
618	KM	ROUTE FLOW TO 3										
619	KO											
620	RS	3.9	FLOW	-1								
621	SV	0	34	55	200	661	1334					
622	SQ		250	500	1000	2000	3000	0	0			
623	SE	3.1	10.47	12.6	14.8	15.9	16.66	0	0			
624	KK	SUB3 NEW BAYOU AT M.P.R.R.										
625	KM	RUNOFF FROM SUBAREA 3										
626	KO											
627	BA	1.59										
628	PH	1	0	.92	2.03	4.65	6.25	7.15	8.75	10.8	13	
629	LU	1	.1	1								
630	UC	2.81	9.93									

631	KK	SUB3										
632	KM	COMBINE HYDROS AT 3										
633	HC	2										
634	KK	3T04										
635	KM	ROUTE FLOW TO 4										
636	KO											
637	RS	4.7	FLOW	-1								
638	SV	0	20	33	66	401	880					
639	SQ		250	500	1000	2000	3000	0	0			
640	SE	1.	7.11	9.38	11.9	13.76	14.47	0	0			

641	KK	SUB4 NEW BAYOU AT M.P.R.R.										
642	KM	RUNOFF FROM SUBAREA 4										
643	KO											
644	BA	1.61										
645	PH	1	0	.92	2.03	4.65	6.25	7.15	8.75	10.8	13	
646	LU	1	.1	1								
647	UC	2.28	9.06									

648	KK	SUB4										
649	KM	COMBINE HYDROS AT 4										
650	HC	2										
651	KK	4T05										
652	KM	ROUTE FLOW TO 5										
653	KO											
654	RS	5.0	FLOW	-1								
655	SV	0	26	48	81	311	612					
656	SQ		250	500	1000	2000	3000	0	0			
657	SE	-2.5	4.72	7.25	9.42	11.58	12.5	0	0			

HEC-1 INPUT

PAGE 16

658	KK	SUB5 NEW BAYOU AT THE CONFLUENCE W/MUSTANG BAYOU										
659	KM	RUNOFF FROM SUBAREA 5										
660	KO											
661	BA	1.44										
662	PH	1	0	.92	2.03	4.65	6.25	7.15	8.75	10.8	13	
663	LU	1.0	0.1	1								
664	UC	2.74	14.42									
665	KK	SUB5										
666	KM	COMBINE HYDROS AT 5										
667	KO											
668	HC	2										
	*	***** MUSTANG BAYOU AT DOWNSTREAM OF NEW BAYOU *****										
669	KK	SUB9										
670	KM	COMBINE HYDROS AT 9										
671	KO											
672	HC	2										
673	KK	9T010										
674	KM	ROUTE FLOWS TO 10										
675	KO											
676	RS	7.3	FLOW	-1								
677	SV		139	228	639	1209	1660	2168				
678	SB		500	1000	2000	4000	6000	8000				
679	SE	0	6.8	9.4	11.0	11.9	12.6	13.1				
680	KK	SUB10 MUSTANG BAYOU AT CONFLUENCE W/PERSIMMONS BAYOU										
681	KM	RUNOFF FROM SUBAREA 10										
682	KO											
683	BA	4.08										
684	PH	1	0	.92	2.03	4.65	6.25	7.15	8.75	10.8	13	
685	LU	1	.1	3								
686	UC	1.0	17.02									
687	KK	SUB10										
688	KM	COMBINE HYDROS AT 10										
689	HC	2										
690	ZZ											

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT	(V) ROUTING	(---)) DIVERSION OR PUMP FLOW
LINE		
NO.	(.) CONNECTOR	(<---) RETURN OF DIVERTED OR PUMPED FLOW
7	SUB1	
	V	
	V	
14	42000	
	.	
	.	
21	.	SUB2
	.	.
	.	.
28	42000.....	
	V	
	V	
32	36700	
	.	
	.	
39	.	SUB3
	.	.

```

96      .      .      SUB4
      .      .      .
      .      .      .
53  36700.....
      .
      .
60  .-----> DIVERT
57  36700
      v
      v
63  32820
      .
      .
70      .      SUB5
      .      v
      .      v
77      .      32820
      .      .
      .      .
84      .      .      SUB6
      .      .      .
      .      .      .
91      .      .      .      SUB7
      .      .      .      .
      .      .      .      .
98      .      .      .      .      SUB8
      .      .      .      .      .
      .      .      .      .      .
105  32820.....
      v
      v
109  31600
      .
      .
116      .      SUB9
      .      .
      .      .
123  31600.....
      v
      v
127  9T09A
      .
      .
134      .      9A
      .      .
      .      .
141  9A.....
      v
      v
145  9Ato9B
      .
      .
152      .      9B
      .      .
      .      .
159  9B.....
      v
      v
163  9Bto10
      .
      .
170      .      SUB10
      .      .
      .      .
177  SUB10.....

```



V  
181 10T01  
.  
.  
188 . SUB1  
.  
.  
195 SUB1.....  
V  
V  
198 1T02  
.  
.  
205 . SUB2  
.  
.  
212 SUB2.....  
V  
V  
215 2T03  
.  
.  
222 . SUB3  
.  
.  
229 SUB3.....  
V  
V  
232 3T04  
.  
.  
239 . SUB4  
.  
.  
246 SUB4.....  
V  
V  
249 4T05  
.  
.  
256 . SUB5  
.  
.  
263 SUB5.....  
V  
V  
266 5T06  
.  
.  
273 . SUB6  
.  
.  
280 SUB6.....  
V  
V  
283 6T07  
.  
.  
290 . SUB7  
.  
.  
297 SUB7.....  
.  
.  
300 . SUB1

307 . . . . . V  
1T02  
.  
.  
314 . . . . . SUB2  
.  
.  
321 . . . . . SUB2.....  
V  
V  
324 . . . . . 2T03  
.  
.  
331 . . . . . SUB3  
.  
.  
338 . . . . . SUB3.....  
V  
V  
341 . . . . . 3T04  
.  
.  
348 . . . . . SUB4  
.  
.  
355 . . . . . SUB4.....  
V  
V  
358 . . . . . 4T05  
.  
.  
365 . . . . . SUB5  
.  
.  
372 . . . . . SUB5.....  
V  
V  
375 . . . . . 5T06  
.  
.  
382 . . . . . SUB6  
.  
.  
389 . . . . . SUB6.....  
.  
.  
395 . . . . . -----> DIVT  
392 . . . . . SUB6  
V  
V  
398 . . . . . 6T07  
.  
.  
405 . . . . . SUB7  
.  
.  
412 . . . . . SUB7.....  
.  
.  
415 . . . . . SUB7.....  
V  
V  
418 . . . . . 7T08  
.  
.

.  
.  
432 SUB8.....  
V  
V  
435 8T09  
.  
.  
442 SUB9  
.  
.  
449 SUB9.....  
.  
.  
452 SUB1  
V  
V  
459 1T02  
.  
.  
466 SUB2  
.  
.  
473 SUB2.....  
V  
V  
476 2T03  
.  
.  
483 SUB3  
.  
.  
490 SUB3.....  
V  
V  
493 3T04  
.  
.  
500 SUB4  
.  
.  
507 SUB4.....  
V  
V  
510 4T05  
.  
.  
517 SUB5  
.  
.  
524 SUB5.....  
V  
V  
527 5T06  
.  
.  
534 SUB6  
.  
.  
541 SUB6.....  
V  
V  
544 6T07  
.  
.  
.

```

558 . SUB7.....
      . v
      . v
561 . 7T08
      .
      .
568 . SUB8
      .
      .
575 . SUB8.....
      .
      .
581 . -----> DIV
578 . SUB8
      .
      .
586 . .<----- DIVT
584 . DIVT
      .
      .
587 . SUB1
      .
      .
594 . SUB1.....
      .
      .
597 . SUB1.....
      .
      .
      .
      .
600 . 1T02
      .
      .
607 . SUB2
      .
      .
614 . SUB2.....
      .
      .
      .
617 . 2T03
      .
      .
624 . SUB3
      .
      .
631 . SUB3.....
      .
      .
      .
634 . 3T04
      .
      .
641 . SUB4
      .
      .
648 . SUB4.....
      .
      .
      .
651 . 4T05
      .
      .
658 . SUB5
      .
      .
665 . SUB5.....

```

```

669 SUB9.....
      V
      V
673 9T010
      .
      .
680 . SUB10
      .
      .
687 SUB10.....

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

\*\*\*\*

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985  
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

\*\*\*\*

SNOWDEN ENGINEERING, INC.  
 MUSTANG BAYOU WATERSHED, 100-YR. HYDROGRAPH FOR EXISTING CONDITION  
 BRAZORIA COUNTY, C&R DIST. 3, MASTER DRAINAGE STUDY  
 FILE NAME: MBEX100

```

6 IO OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE

```

```

IT HYDROGRAPH TIME DATA
      NMIN      15 MINUTES IN COMPUTATION INTERVAL
      IDATE      1 0 STARTING DATE
      ITIME      0000 STARTING TIME
      NQ         200 NUMBER OF HYDROGRAPH ORDINATES
      NDDATE     3 0 ENDING DATE
      NDTIME     0145 ENDING TIME

      COMPUTATION INTERVAL .25 HOURS
      TOTAL TIME BASE 49.75 HOURS

```

ENGLISH UNITS

\*\*\* \*\* \*\* \*\* \*\*

```

*****
*          *
7 KK * SUB1 * MUSTANG BAYOU AT B.R.A. CANAL
*          *
*****

```

```

9 KO OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE

```

\*\*\* \*\* \*\* \*\*~

```
* *
14 KK * 42000 * MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH
* *
*****
```

```
16 KO OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
* *
21 KK * SUB2 * MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH
* *
*****
```

```
23 KO OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
* *
28 KK * 42000 * MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH
* *
*****
```

```
30 KO OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

```
*****
* *
32 KK * 36700 * MUSTANG BAYOU AT RELIEF CHANNEL
* *
*****
```

```
34 KO OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

```
*****
* *

```

\* \*  
\*\*\*\*\*

41 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\*        \*  
\*        \*  
\*\*\*\*\*

46 KK            \*        SUB4        \*        MUSTANG BAYOU AT RELIEF CHANNEL

48 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
\*        \*  
\*        \*  
\*\*\*\*\*

53 KK            \*        36700        \*        MUSTANG BAYOU AT RELIEF CHANNEL

55 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
\*        \*  
\*        \*  
\*\*\*\*\*

57 KK            \*        36700        \*        MUSTANG BAYOU AT RELIEF CHANNEL

59 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
\*        \*  
\*        \*  
\*\*\*\*\*

63 KK            \*        32820        \*        MUSTANG BAYOU AT QUAIL GLEN DITCH

65 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
70 KK    \*    SUB5   \*    QUAIL GLEN DITCH AT B.R.A. CANAL  
\*            \*  
\*\*\*\*\*

72 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
77 KK    \*    32820   \*    MUSTANG BAYOU AT QUAIL GLEN DITCH  
\*            \*  
\*\*\*\*\*

79 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
84 KK    \*    SUB6   \*    MUSTANG BAYOU AT QUAIL GLEN DITCH  
\*            \*  
\*\*\*\*\*

86 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
91 KK    \*    SUB7   \*    MUSTANG BAYOU AT QUAIL GLEN DITCH  
\*            \*  
\*\*\*\*\*



IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

98 KK \* SUB8 \* MUSTANG BAYOU AT QUAIL GLEN DITCH  
\* \*  
\*\*\*\*\*

100 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

105 KK \* 32820 \* MUSTANG BAYOU AT QUAIL GLEN DITCH  
\* \*  
\*\*\*\*\*

107 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

109 KK \* 31600 \* MUSTANG BAYOU AT MISSOURI CITY E.T.J.  
\* \*  
\*\*\*\*\*

111 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

116 KK \* SUB9 \* MUSTANG BAYOU AT MISSOURI CITY E.T.J.  
\* \*  
\*\*\*\*\*

118 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

```

*****
*           *
123 KK * 31600 * MUSTANG BAYOU AT MISSOURI CITY E.T.J.
*           *
*****
    
```

```

125 KO      OUTPUT CONTROL VARIABLES
            IPRNT      5 PRINT CONTROL
            IPLOT      0 PLOT CONTROL
            QSCAL      0. HYDROGRAPH PLOT SCALE
    
```

\*\*\* \*\* \*\* \*\*~

```

*****
*           *
127 KK * 9T09A *
*           *
*****
    
```

```

129 KO      OUTPUT CONTROL VARIABLES
            IPRNT      5 PRINT CONTROL
            IPLOT      0 PLOT CONTROL
            QSCAL      0. HYDROGRAPH PLOT SCALE
    
```

\*\*\* \*\* \*\* \*\*~

```

*****
*           *
134 KK * 9A * MUSTANG BAYOU AT 2.5 MILE DOWNSTREAM FROM MISSOURI CITY ETJ
*           *
*****
    
```

```

136 KO      OUTPUT CONTROL VARIABLES
            IPRNT      5 PRINT CONTROL
            IPLOT      0 PLOT CONTROL
            QSCAL      0. HYDROGRAPH PLOT SCALE
    
```

\*\*\* \*\* \*\* \*\*~

```

*****
*           *
141 KK * 9A *
*           *
*****
    
```

```

143 KO      OUTPUT CONTROL VARIABLES
            IPRNT      5 PRINT CONTROL
            IPLOT      0 PLOT CONTROL
            QSCAL      0. HYDROGRAPH PLOT SCALE
    
```

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* 9Ato9B \*  
\* \*  
\*\*\*\*\*

145 KK

147 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* 9B \* MUSTANG BAYOU AT M.P.R.R.  
\* \*  
\*\*\*\*\*

152 KK

154 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* 9B \*  
\* \*  
\*\*\*\*\*

159 KK

161 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* 9Bto10 \*  
\* \*  
\*\*\*\*\*

163 KK

165 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

170 KK

\* \*  
\* SUB10 \*  
\* \*

\*\*\*\*\*

172 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

177 KK

\* \*  
\* SUB10 \*  
\* \*

\*\*\*\*\*

179 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

181 KK

\* \*  
\* 10T01 \*  
\* \*

\*\*\*\*\*

183 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

188 KK

\* \* BRAZORIA COUNTY, STATE HWY 288  
\* SUB1 \*  
\* \*

\*\*\*\*\*

190 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

```
*****
*           *
198 KK      *   1T02 *
*           *
*****
```

```
200 KO      OUTPUT CONTROL VARIABLES
              IPRNT      5 PRINT CONTROL
              IPLOT      0 PLOT CONTROL
              BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
*           *
205 KK      *   SUB2 *   COUNTY ROUTE 1128
*           *
*****
```

```
207 KO      OUTPUT CONTROL VARIABLES
              IPRNT      5 PRINT CONTROL
              IPLOT      0 PLOT CONTROL
              BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

```
*****
*           *
215 KK      *   2T03 *
*           *
*****
```

```
217 KO      OUTPUT CONTROL VARIABLES
              IPRNT      5 PRINT CONTROL
              IPLOT      0 PLOT CONTROL
              BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

```
*****
*           *
222 KK      *   SUB3 *   NEAR HWY 6
*           *
*****
```

```
224 KO      OUTPUT CONTROL VARIABLES
              IPRNT      5 PRINT CONTROL
              IPLOT      0 PLOT CONTROL
              BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

-----

232 KK \* 3704 \*  
\* \*  
\*\*\*\*\*

234 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
239 KK \* SUB4 \* M.P.R.R.  
\* \*  
\*\*\*\*\*

241 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
249 KK \* 4705 \*  
\* \*  
\*\*\*\*\*

251 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
256 KK \* SUB5 \* HWY 35  
\* \*  
\*\*\*\*\*

258 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
259 KK \* \*  
\* \*

+ +  
\*\*\*\*\*

268 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*  
+ +  
\*        \*  
\*        \*  
\*\*\*\*\*

273 KK            \*        SUB6        \*        COUNTY ROUTE 160

275 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*  
+ +  
\*        \*  
\*        \*  
\*\*\*\*\*

283 KK            \*        6T07        \*

285 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*  
+ +  
\*        \*  
\*        \*  
\*\*\*\*\*

290 KK            \*        SUB7        \*        UPSTREAM FROM CONFLUENCE W/DITCH M-1

292 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*  
+ +  
\*        \*  
\*        \*  
\*\*\*\*\*

300 KK            \*        SUB1        \*        DITCH M-1 AT WEST DUMBLE

302 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
307 KK   \*    1T02 \*  
\*            \*  
\*\*\*\*\*

309 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
314 KK   \*    SUB2 \*        DITCH M-1 AT JOHNSON ST.  
\*            \*  
\*\*\*\*\*

316 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
324 KK   \*    2T03 \*  
\*            \*  
\*\*\*\*\*

326 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
331 KK   \*    SUB3 \*        DITCH M-1 AT HWY 35  
\*            \*  
\*\*\*\*\*



IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
341 KK \* 3T04 \*  
\* \*  
\*\*\*\*\*

343 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
348 KK \* SUB4 \* DITCH M-1 AT PIPELINE CROSSING  
\* \*  
\*\*\*\*\*

350 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
358 KK \* 4T05 \*  
\* \*  
\*\*\*\*\*

360 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
365 KK \* SUB5 \* DITCH M-1 AT BRISCO CANAL  
\* \*  
\*\*\*\*\*

367 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL

\*\*\* \*\* \*\* \*\* \*\*

```

*****
*           *
375 KK *     5T06 *
*           *
*****

```

```

377 KQ      OUTPUT CONTROL VARIABLES
          IPRNT          5 PRINT CONTROL
          IPLOT          0 PLOT CONTROL
          QSCAL          0. HYDROGRAPH PLOT SCALE

```

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 250. TO 500.  
 THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
 THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\* \*\*

```

*****
*           *
382 KK *     SUB6 *     DITCH M-1 AT MPRR
*           *
*****

```

```

384 KQ      OUTPUT CONTROL VARIABLES
          IPRNT          5 PRINT CONTROL
          IPLOT          0 PLOT CONTROL
          QSCAL          0. HYDROGRAPH PLOT SCALE

```

\*\*\* \*\* \*\* \*\*~

```

*****
*           *
392 KK *     SUB6 *
*           *
*****

```

```

394 KQ      OUTPUT CONTROL VARIABLES
          IPRNT          5 PRINT CONTROL
          IPLOT          0 PLOT CONTROL
          QSCAL          0. HYDROGRAPH PLOT SCALE

```

\*\*\* \*\* \*\* \*\*~

```

*****
*           *
398 KK *     6T07 *           0
*           *
*****

```

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 1000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\*

\*\*\*\*\*

405 KK \* SUB7 \* DITCH M-1 AT CONFLUENCE W/MUSTANG BAYOU  
\* \*  
\*\*\*\*\*

407 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

418 KK \* 7T08 \*  
\* \*  
\*\*\*\*\*

420 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

425 KK \* SUB8 \* MUSTANG BAYOU AT CONFLUENCE W/PERSIMMON BAYOU  
\* \*  
\*\*\*\*\*

427 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

435 KK \* 8T09 \*  
\* \*  
\*\*\*\*\*

437 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
442 KK    \*        SUB9   \*        MUSTANG BAYOU AT CONFLUENCE W/NEW BAYOU  
\*            \*  
\*\*\*\*\*

444 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
452 KK    \*        SUB1   \*        DITCH C-1 AT COUNTY RD 1128  
\*            \*  
\*\*\*\*\*

454 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*

\*\*\*\*\*  
\*            \*  
459 KK    \*        1T02   \*  
\*            \*  
\*\*\*\*\*

461 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2000. TO 5000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\* \*

\*\*\*\*\*  
\*            \*  
466 KK    \*        SUB1   \*        DITCH C-1 AT COUNTY RD 1128  
\*            \*  
\*\*\*\*\*

\* \*  
\*\*\*\*\*

468 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLDT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

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\* \*  
\* \*  
\*\*\*\*\*

476 KK            \*        2T03    \*

478 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLDT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

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\* \*  
\* \*  
\*\*\*\*\*

483 KK            \*        SUB3    \*        DITCH C-1 AT DIRT RD

485 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLDT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

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\* \*  
\* \*  
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493 KK            \*        3T04    \*

495 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLDT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

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\* \*  
\* \*  
\*\*\*\*\*

500 KK            \*        SUB4    \*        DITCH C-1 AT HERRING RD

502 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
510 KK \* 4705 \*  
\* \*  
\*\*\*\*\*

512 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2000. TO 3000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
517 KK \* SUB5 \* DITCH C-1 AT COUNTY RD 1462  
\* \*  
\*\*\*\*\*

519 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
527 KK \* 5706 \*  
\* \*  
\*\*\*\*\*

529 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 1000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\*~

```
* *
566 KK * SUB8 * DITCH 3-1 AT CONFLUENCE W/NEW BAYOU
* *
*****
```

```
570 KO OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
* *
578 KK * SUB8 *
* *
*****
```

```
580 KO OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
* *
587 KK * SUB1 * NEW BAYOU AT M.P.R.R.
* *
*****
```

```
589 KO OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

```
*****
* *
600 KK * 1T02 *
* *
*****
```

```
602 KO OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

```
*****
* *
607 KK * SUB8 * NEW BAYOU AT BRIDGE CANAL
* *
*****
```

\*\*\*\*\*

534 KK

\* SUB6 \* DITCH C-1 AT HWY 35  
\* \*  
\*\*\*\*\*

536 KD

OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

544 KK

\* 6T07 \*  
\* \*  
\*\*\*\*\*

546 KD

OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

551 KK

\* SUB7 \* DITCH C-1 AT BRISCO CANAL  
\* \*  
\*\*\*\*\*

553 KD

OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

561 KK

\* 7T08 \*  
\* \*  
\*\*\*\*\*

563 KD

OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*



+ +  
\*\*\*\*\*

509 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
617 KK       \*        2T03   \*  
\*            \*  
\*\*\*\*\*

519 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
624 KK       \*        SUB3   \*        NEW BAYOU AT M.P.R.R.  
\*            \*  
\*\*\*\*\*

525 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
634 KK       \*        3T04   \*  
\*            \*  
\*\*\*\*\*

636 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
641 KK       \*        SUB4   \*        NEW BAYOU AT M.P.R.R.  
\*            \*  
\*\*\*\*\*

643 K0            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
651 KK    \*        4T05 \*  
\*            \*  
\*\*\*\*\*

653 K0            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
658 KK    \*        SUB5 \*        NEW BAYOU AT THE CONFLUENCE W/MUSTANG BAYOU  
\*            \*  
\*\*\*\*\*

660 K0            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
665 KK    \*        SUB5 \*  
\*            \*  
\*\*\*\*\*

667 K0            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
669 KK    \*        SUB9 \*  
\*            \*  
\*\*\*\*\*

671 K0            OUTPUT CONTROL VARIABLES



+	3 COMBINED AT	36700	612.	15.25	522.	284.	156.	1.44		
	DIVERSION TO									
+	DIVERT		611.	28.25	521.	243.	117.	1.44		
	HYDROGRAPH AT									
+		36700	161.	28.25	124.	65.	39.	1.44		
	ROUTED TO									
+		32820	143.	30.25	121.	64.	38.	1.44		
+									70.00	30.25
	HYDROGRAPH AT									
+		SUB5	361.	12.75	183.	65.	32.	.25		
	ROUTED TO									
+		32820	341.	13.25	182.	65.	32.	.25		
+									73.22	13.25
	HYDROGRAPH AT									
+		SUB6	36.	13.25	30.	15.	7.	.07		
	HYDROGRAPH AT									
+		SUB7	128.	14.75	116.	69.	38.	.36		
	HYDROGRAPH AT									
+		SUB8	102.	13.75	90.	48.	26.	.24		
	5 COMBINED AT									
+		32820	654.	13.25	431.	229.	140.	2.36		
	ROUTED TO									
+		31600	593.	13.75	431.	229.	140.	2.36		
+									73.87	13.75
	HYDROGRAPH AT									
+		SUB9	97.	13.25	83.	43.	22.	.21		
	2 COMBINED AT									
+		31600	690.	13.75	514.	272.	163.	2.57		
	ROUTED TO									
+		9T09A	434.	23.50	410.	266.	156.	2.57		
+									70.12	23.50
	HYDROGRAPH AT									
+		9A	330.	15.25	310.	205.	116.	1.30		
	2 COMBINED AT									
+		9A	664.	22.75	639.	460.	272.	3.87		
	ROUTED TO									
+		9Ato9B	575.	34.00	562.	452.	260.	3.87		
+									68.39	34.00
	HYDROGRAPH AT									
+		9B	418.	15.50	400.	284.	166.	1.93		
	2 COMBINED AT									
+		9B	807.	17.25	777.	713.	425.	5.80		
	ROUTED TO									
+		9Bto10	779.	20.25	763.	711.	422.	5.80		

+	HYDROGRAPH AT	SUB10	527.	13.50	495.	219.	109.	1.11		
+	2 COMBINED AT	SUB10	1080.	18.50	1031.	975.	531.	5.91		
+	ROUTED TO	10T01	995.	30.75	978.	950.	501.	6.91	62.49	30.75
+	HYDROGRAPH AT	SUB1	965.	16.50	941.	723.	441.	4.14		
+	2 COMBINED AT	SUB1	1522.	28.00	1505.	1435.	942.	11.05		
+	ROUTED TO	1T02	1509.	34.50	1592.	1420.	775.	11.05	55.07	34.50
+	HYDROGRAPH AT	SUB2	1456.	17.00	1404.	1043.	523.	5.60		
+	2 COMBINED AT	SUB2	2437.	26.25	2398.	2125.	1398.	16.65		
+	ROUTED TO	2T03	2379.	33.25	2363.	2112.	1214.	16.65	52.72	33.25
+	HYDROGRAPH AT	SUB3	1704.	16.50	1512.	1107.	636.	5.26		
+	2 COMBINED AT	SUB3	3096.	31.25	3042.	2760.	1850.	21.91		
+	ROUTED TO	3T04	2959.	45.25	2939.	2320.	1204.	21.91	46.62	45.25
+	HYDROGRAPH AT	SUB4	1475.	16.75	1430.	1081.	654.	5.75		
+	2 COMBINED AT	SUB4	3374.	43.25	3354.	2951.	1858.	27.66		
+	ROUTED TO	4T05	3283.	49.75	3148.	2384.	1392.	27.66	39.90	49.75
+	HYDROGRAPH AT	SUB5	2769.	14.00	2143.	969.	486.	3.11		
+	2 COMBINED AT	SUB5	3283.	49.75	3148.	2454.	1878.	30.77		
+	ROUTED TO	5T06	3172.	49.75	2954.	2316.	1725.	30.77	32.87	49.75
+	HYDROGRAPH AT	SUB6	1275.	15.00	1179.	738.	413.	2.90		
+	2 COMBINED AT	SUB6	2800.	17.50	2592.	2828.	2128.	22.57		



+	HYDROGRAPH AT	SUB6	1379.	36.50	1349.	993.	503.	5.14		
+	ROUTED TO	6T07	1352.	34.75	1315.	993.	508.	6.14	20.37	34.75
+	HYDROGRAPH AT	SUB7	796.	14.50	713.	401.	214.	1.55		
+	2 COMBINED AT	SUB7	1601.	19.00	1543.	1389.	721.	7.79		
+	2 COMBINED AT	SUB7	5754.	24.50	5583.	4492.	2882.	43.89		
+	ROUTED TO	7T08	5602.	29.50	5477.	4474.	2715.	43.89	16.12	29.50
+	HYDROGRAPH AT	SUB8	632.	18.25	623.	518.	329.	3.63		
+	2 COMBINED AT	SUB8	6088.	29.50	5960.	4952.	3046.	47.52		
+	ROUTED TO	8T09	6048.	31.75	5929.	4942.	2906.	47.52	14.21	31.75
+	HYDROGRAPH AT	SUB9	730.	15.50	682.	440.	246.	1.98		
+	2 COMBINED AT	SUB9	6300.	31.50	6180.	5228.	3152.	49.50		
+	HYDROGRAPH AT	SUB1	525.	14.25	462.	248.	130.	1.00		
+	ROUTED TO	1T02	427.	24.00	402.	245.	128.	1.00	49.43	24.00
+	HYDROGRAPH AT	SUB2	572.	14.00	510.	284.	152.	1.12		
+	2 COMBINED AT	SUB2	708.	22.75	677.	507.	280.	2.12		
+	ROUTED TO	2T03	686.	26.50	663.	504.	278.	2.12	40.80	26.50
+	HYDROGRAPH AT	SUB3	1538.	15.50	1395.	826.	447.	3.37		
+	2 COMBINED AT	SUB3	1993.	16.25	1878.	1318.	725.	5.49		
+	ROUTED TO	3T04	1759.	23.00	1718.	1313.	721.	5.49	40.45	23.00
+	HYDROGRAPH AT	SUB4	1501.	15.25	1387.	875.	495.	3.72		

+	2 COMBINED AT	SUB4	2857.	21.00	2797.	2180.	1206.	9.22		
	ROUTED TO									
+		4T05	2931.	20.00	2751.	2101.	1200.	9.22		
+									36.37	20.00
	HYDROGRAPH AT									
+		SUB5	1139.	15.50	1042.	532.	345.	2.68		
	2 COMBINED AT									
+		SUB5	3936.	20.00	3489.	2545.	1545.	11.90		
	ROUTED TO									
+		5T06	3542.	24.50	3357.	2626.	1540.	11.90		
+									34.59	24.50
	HYDROGRAPH AT									
+		SUB6	358.	15.00	330.	203.	112.	.88		
	2 COMBINED AT									
+		SUB6	3744.	24.50	3539.	2779.	1552.	12.79		
	ROUTED TO									
+		6T07	3172.	31.00	3116.	2683.	1639.	12.78		
+									30.40	31.00
	HYDROGRAPH AT									
+		SUB7	1085.	15.00	1008.	539.	358.	2.64		
	2 COMBINED AT									
+		SUB7	3551.	30.25	3489.	3054.	1997.	15.42		
	ROUTED TO									
+		7T08	3525.	32.00	3469.	3045.	1982.	15.42		
+									27.07	32.00
	HYDROGRAPH AT									
+		SUB8	642.	15.75	618.	445.	263.	2.27		
	2 COMBINED AT									
+		SUB8	3830.	31.75	3773.	3359.	2245.	17.69		
	DIVERSION TO									
+		DIV	3447.	31.75	3395.	3023.	2020.	17.69		
	HYDROGRAPH AT									
+		SUB9	383.	31.75	377.	336.	224.	17.69		
	HYDROGRAPH AT									
+		DIVT	920.	30.50	899.	662.	339.	.00		
	HYDROGRAPH AT									
+		SUB1	448.	15.25	430.	302.	177.	1.50		
	2 COMBINED AT									
+		SUB1	1257.	19.00	1223.	963.	516.	1.50		
	2 COMBINED AT									
+		SUB1	1537.	19.25	1516.	1273.	740.	19.19		
	ROUTED TO									
+		1T02	1507.	32.75	1500.	1254.	727.	19.19		
+									18.21	32.75



+	HYDROGRAPH AT									
+		SUB2	784.	15.50	744.	505.	290.	2.40		
+	2 COMBINED AT									
+		SUB2	2034.	23.50	1995.	1696.	1017.	21.59		
+	ROUTED TO									
+		2T03	1910.	30.75	1900.	1651.	1006.	21.59		
+									15.90	30.75
+	HYDROGRAPH AT									
+		SUB3	685.	15.25	624.	374.	203.	1.59		
+	2 COMBINED AT									
+		SUB3	2131.	29.00	2111.	1899.	1209.	23.18		
+	ROUTED TO									
+		3T04	2087.	35.00	2075.	1881.	1200.	23.18		
+									13.82	35.00
+	HYDROGRAPH AT									
+		SUB4	750.	14.75	675.	388.	208.	1.61		
+	2 COMBINED AT									
+		SUB4	2216.	32.75	2210.	2089.	1408.	24.79		
+	ROUTED TO									
+		4T05	2210.	36.25	2202.	2064.	1386.	24.79		
+									11.77	36.25
+	HYDROGRAPH AT									
+		SUB5	460.	15.50	437.	300.	173.	1.44		
+	2 COMBINED AT									
+		SUB5	2363.	33.75	2356.	2291.	1559.	26.23		
+	2 COMBINED AT									
+		SUB9	8649.	31.75	8526.	7519.	4711.	75.73		
+	ROUTED TO									
+		9T010	8592.	34.75	8483.	7498.	4391.	75.73		
+									13.25	34.75
+	HYDROGRAPH AT									
+		SUB10	1138.	14.75	1100.	795.	473.	4.08		
+	2 COMBINED AT									
+		SUB10	9039.	34.50	8932.	8001.	4864.	79.81		

\*\*\* NORMAL END OF HEC-1 \*\*\*

APPENDIX I (CONT.)

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

LINE	ID.....	1.....	2.....	3.....	4.....	5.....	6.....	7.....	8.....	9.....	10
1	ID	SNOWDEN ENGINEERING, INC.									
2	ID	MUSTANG BAYOU WATERSHED, 25-YR. HYDROGRAPH FOR EXISTING CONDITION									
3	ID	BRAZORIA COUNTY, C&R DIST. 3, MASTER DRAINAGE STUDY									
4	ID	FILE NAME: MBEX25									
	*DIAGRAM										
5	IT	15				200					
6	IO	5	0								
	*	***** MUSTANG BAYOU IN FORT BEND COUNTY *****									
7	KK	SUB1 MUSTANG BAYOU AT B.R.A. CANAL									
8	KM	RUNOFF FROM SUBAREA 1									
9	KO										
10	BA	.52									
11	PH	4		.77	1.7	3.72	4.85	5.45	6.7	8.2	9.6
12	LE	.3	1.	1.3	.55	3.5					
13	UC	1.5	11.9								
14	KK	42000 MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH									
15	KM	ROUTE FLOWS FROM SUBAREA 1 TO SUBAREA 2									
16	KO										
17	RS	3	FLOW	-1							
18	SV	0	17	27	36	43	54				
19	SQ	0	94	188	292	376	470				
20	SE	66.80	70.88	72.81	74.20	74.76	75.21				
21	KK	SUB2 MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH									
22	KM	RUNOFF FROM SUBAREA 2									
23	KO										
24	BA	.27	0								
25	PH	4		.77	1.7	3.72	4.85	5.45	6.7	8.2	9.6
26	LE	.3	1.	1.3	.55	3.5					
27	UC	.8	2.1								
28	KK	42000 MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH									
29	KM	COMBINE HYDROS FROM SUBAREA 1 & SUBAREA 2									
30	KO										
31	HC	2									
32	KK	36700 MUSTANG BAYOU AT RELIEF CHANNEL									
33	KM	ROUTE HYDRO FROM SUBAREAS 1&2 TO SUBAREA 3									
34	KO										
35	RS	8	FLOW	-1							
36	SV	0	28	45	62	72	83				
37	SQ	0	96	191	287	382	478				
38	SE	66.30	70.76	72.70	74.08	74.59	75.00				

39	KK	SUB3 MUSTANG BAYOU AT RELIEF CHANNEL									
40	KM	RUNOFF FROM SUBAREA 3									
41	KO										
42	BA	.18	0								
43	PH	4		.77	1.7	3.72	4.95	5.45	6.7	8.2	9.6
44	LE	.3	1.	1.3	.55						
45	UC	1.3	5.2								

HEC-1 INPUT

PAGE 2

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

46	KK	SUB4 MUSTANG BAYOU AT RELIEF CHANNEL									
47	KM	RUNOFF FROM SUBAREA 4									
48	KO										
49	BA	.37	0								
50	PH	4		.77	1.7	3.72	4.85	5.45	6.7	8.2	9.6
51	LE	.3	1.	1.3	.55	1.8					
52	UC	1.2	6.4								

53	KK	36700 MUSTANG BAYOU AT RELIEF CHANNEL									
54	KM	COMBINE HYDROS FROM SUBAREAS 1&2 WITH SUBAREA 3 & SUBAREA 4									
55	KO										
56	HC	3									

57	KK	36700 MUSTANG BAYOU AT RELIEF CHANNEL									
58	KM	SUBTRACT FLOW WHICH GOES DOWN RELIEF CHANNEL									
59	KO										
60	DT	DIVERT									
61	DI	0	80	164	165	300	500	700			
62	DQ	0	0	0	164	299	499	699			

63	KK	32820 MUSTANG BAYOU AT QUAIL GLEN DITCH									
64	KM	ROUTE FLOWS FROM SUBAREAS 1-4 TO SUBAREAS 6,7,&8									
65	KO										
66	RS	7	FLOW	-1							
67	SV	0	15	28	63	87	197				
68	SQ	0	162	324	485	647	809				
69	SE	65.56	70.58	72.51	73.91	74.41	74.80				

70	KK	SUB5 QUAIL GLEN DITCH AT B.R.A. CANAL									
71	KM	RUNOFF FROM SUBAREA 5									
72	KO										
73	BA	.25	0								
74	PH	4		.77	1.7	3.72	4.85	5.45	6.7	8.2	9.6
75	LE	.3	1.	1.3	.55	35					
76	UC	.4	1.6								

77	KK	32820 MUSTANG BAYOU AT QUAIL GLEN DITCH									
78	KM	ROUTE FLOWS FROM SUBAREA 5 TO SUBAREAS 6,7,&8									
79	KO										
80	RS	2	FLOW	-1							
81	RC	.07	.04	.07	3500	.0006					
82	RX	0	1	100	130	140	170	270	271		
83	RY	78.00	77.00	77.00	67.50	67.50	76.00	77.00	78.00		

84	KK	SUB6 MUSTANG BAYOU AT QUAIL GLEN DITCH									
85	KM	RUNOFF FROM SUBAREA 6									
86	KO										
87	BA	.07	0								
88	PH	4		.77	1.7	3.72	4.85	5.45	6.7	8.2	9.6
89	LE	.3	1.	1.3	.55						
90	UC	.6	6.3								

HEC-1 INPUT

PAGE 3

91 KK SUB7 MUSTANG BAYOU AT QUAIL GLEN DITCH  
 92 KM RUNOFF FROM SUBAREA 7  
 93 KO  
 94 BA .36 0  
 95 PH 4 .77 1.7 3.72 4.85 5.45 6.7 8.2 9.6  
 96 LE .3 1. 1.3 .55  
 97 UC 2.1 9.9

98 KK SUB8 MUSTANG BAYOU AT QUAIL GLEN DITCH  
 99 KM RUNOFF FROM SUBAREA 8  
 100 KO  
 101 BA .24 0  
 102 PH 4 .77 1.7 3.72 4.85 5.45 6.7 8.2 9.6  
 103 LE .3 1. 1.3 .55  
 104 UC 1.2 8.

105 KK 32820 MUSTANG BAYOU AT QUAIL GLEN DITCH  
 106 KM COMBINE HYDROS FROM SUBAREAS 1-4 WITH SUBAREAS 5,6,7,&8  
 107 KO  
 108 HC 5

109 KK 31600 MUSTANG BAYOU AT MISSOURI CITY E.T.J.  
 110 KM ROUTE FLOWS TO SUBAREA 9  
 111 KO  
 112 RS 1 FLOW -1  
 113 SV 0 4 7 16 22 27  
 114 SQ 0 178 356 534 712 890  
 115 SE 65.30 70.37 72.27 73.72 74.18 74.53

116 KK SUB9 MUSTANG BAYOU AT MISSOURI CITY E.T.J.  
 117 KM RUNOFF FROM SUBAREA 9  
 118 KO  
 119 BA .21 0  
 120 PH 4 .77 1.7 3.72 4.85 5.45 6.7 8.2 9.6  
 121 LE .3 1. 1.3 .55  
 122 UC .5 7.3

123 KK 31600 MUSTANG BAYOU AT MISSOURI CITY E.T.J.  
 124 KM COMBINE HYDROS FROM SUBAREAS 1-8 WITH SUBAREA 9  
 125 KO  
 126 HC 2

127 KK 9T09A  
 128 KM ROUTE FLOW TO 9A  
 129 KO  
 130 RS 9.6 FLOW -1  
 131 SV 0 104 252 403 569  
 132 SQ 0 200 400 600 800  
 133 SE 62.2 69.3 70.0 70.7 71.3  
 HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

134 KK 9A MUSTANG BAYOU AT 2.5 MILE DOWNSTREAM FROM MISSOURI CITY ETJ  
 135 KM RUNOFF FROM SUBAREA 9A  
 136 KO  
 137 BA 1.3  
 138 PH 4 0 .77 1.7 3.72 4.85 5.45 6.7 8.2 9.6  
 139 LE .5 0 3 .6 1.0  
 140 UC 2.46 12.99

141 KK 9A

```

142 KC
144 HC      2

145 KK 9Ato9B
146 KM      ROUTE FLOW TO 9B
147 KO
148 RS      8.9   FLOW      -1
149 SV      0     85     110     308     687
150 SQ      0     200    400     600     800
151 SE      61.2   67     67.6    68.5    69.3

152 KK      9B MUSTANG BAYOU AT M.P.R.R.
153 KM      RUNOFF FROM SUBAREA 9B
154 KO
155 BA      1.23
156 PH      4     0     .77    1.7    3.72   4.85   5.45   6.7    8.2    9.6
157 LE      .5    0     3     .6     2
158 UC      2.65  15.71

159 KK      9B
160 KM      COMBINE HYDROS AT 9B
161 KO
162 HC      2

163 KK 9Bto10
164 KM      ROUTE FLOWS TO 10
165 KO
166 RS      2.2   FLOW      -1
167 SV      0     14     22     37     63
168 SQ      0     200    400     600     800
169 SE      59    63.6   65.2   66.5   67.3

170 KK SUB10
171 KM      RUNOFF FROM SUBAREA 10
172 KO
173 BA      1.11
174 PH      4     0     .77    1.7    3.72   4.85   5.45   6.7    8.2    9.6
175 LE      .5    0     3     .6     6
176 UC      0.96  5.01

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HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

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177 KK SUB10
178 KM      COMBINE HYDROS AT 10
179 KO
180 HC      2
*      ***** MUSTANG BAYOU IN BRAZORIA COUNTY *****

181 KK 10TO1
182 KM      ROUTE FLOW TO 1
183 KO
184 RS      17   FLOW      -1
185 SV      236   686   2063   4657
186 SQ      500   1000  2000   4000
187 SE      52.9  61.3  62.5   63.7   65.2

188 KK SUB1 BRAZORIA COUNTY, STATE HWY 288
189 KM      RUNOFF FROM SUBAREA 1
190 KO
191 BA      4.14
192 PH      4     .79   1.72   3.85   4.95   5.55   6.9    8.3    10
193 LU      1     0.1   1
194 UC      3.19  20.82

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300	KK	SUB1 DITCH M-1 AT WEST DUMBLE									
301	KM	RUNOFF FROM SUBAREA 1									
302	KO										
303	BA	.14									
304	PH	4	.79	1.72	3.85	4.95	5.55	6.9	8.3	10	
305	LU	.3	.08	17.5							
306	UC	.51	2.37								

HEC-1 INPUT

LINE TO.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

307	KK	1T02									
308	KM	ROUTE FLOWS FROM 1 TO 2									
309	KO										
310	RS	1.5	FLOW	-1							
311	SV	0	33	258	247	567	845	1130			
312	SQ		250	500	1000	2000	3000	4000	0		
313	SE	29.6	34.62	37.17	37.92	38.41	39.76	40.11	0		

314	KK	SUB2 DITCH M-1 AT JOHNSON ST.									
315	KM	RUNOFF FROM SUBAREA 2									
316	KO										
317	BA	1.02									
318	PH	4	.79	1.72	3.85	4.95	5.55	6.9	8.3	10	
319	LU	.6	.06	32.5							
320	UC	1.1	2.92								

321	KK	SUB2									
322	KM	COMBINE HYDROS AT 2									
323	HC	2									

324	KK	2T03									
325	KM	ROUTE FLOWS FROM 2 TO 3									
326	KO										
327	RS	2.8	FLOW	-1							
328	SV	0	19	36	229	516	687	870			
329	SQ		250	500	1000	2000	3000	4000	0	0	
330	SE	23.4	29.52	31.43	33.35	34.43	34.94	35.3	0	0	

331	KK	SUB3 DITCH M-1 AT HWY 35									
332	KM	RUNOFF FROM SUBAREA 3									
333	KO										
334	BA	.68									
335	PH	4	.79	1.72	3.85	4.95	5.55	6.9	8.3	10	
336	LU	.7	.07	20							
337	UC	1.53	3.42								

338	KK	SUB3									
339	KM	COMBINE HYDROS AT 3									
340	HC	2									

341	KK	3T04									
342	KM	ROUTE FLOWS FROM 3 TO 4									
343	KO										
344	RS	2.7	FLOW	-1							
345	SV	0	33	60	145	466	2133	2400			
346	SQ		250	500	1000	2000	3000	4000	0		
347	SE	18.3	24.6	27.41	29.12	30.45	34.09	34.35	0		

348	KK	SUB4 DITCH M-1 AT PIPELINE CROSSING									
349	KM	RUNOFF FROM SUBAREA 4									
350	KO										
351	RA	1.74									





LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

354 UC 2.36 5.28

355 KK SUB4

356 KM COMBINE HYDROS AT 4

357 HC 2

358 KK 4T05

359 KM ROUTE FLOWS FROM 4 TO 5

360 KO

361 RS 5.8 FLOW -1

362 SV 0 36 56 137 630 2513 2695

363 SQ 250 500 1000 2000 3000 4000 0

364 SE 12.6 23.42 26.08 27.04 27.72 29.02 29.87 0

365 KK SUB5 DITCH M-1 AT BRISCO CANAL

366 KM RUNOFF FROM SUBAREA 5

367 KO

368 BA 2.18

369 PH 4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10

370 LU 1. .1 4.5

371 UC 3.22 7.79

372 KK SUB5

373 KM COMBINE HYDROS AT 5

374 HC 2

375 KK 5T06

376 KM ROUTE FLOWS FROM 5 TO 6

377 KO

378 RS 8.9 FLOW -1

379 SV 0 21 41 174 418 1370 1930

380 SQ 250 500 1000 2000 3000 4000 0

381 SE 13.6 20.75 22.85 25.56 26.01 27.2 29.11 0

382 KK SUB6 DITCH M-1 AT MPRR

383 KM RUNOFF FROM SUBAREA 6

384 KO

385 BA 0.38

386 PH 4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10

387 LU 1 .1 1

388 UC 1.97 7.62

389 KK SUB6

390 KM COMBINE HYDROS AT 6

391 HC 2

392 KK SUB6

393 KM SUBTRACT FLOWS WHICH GO TO NEW BAYOU

394 KO

395 DT DIVT

396 DI 0 1000 2000 3000

397 DR 0 400 800 1200

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

398 KK 6T07

399 KM ROUTE FLOWS FROM 6 TO 7

400 KO

402	SV	0	42	72	143	647	1662	3413		
403	SQ		250	500	1000	2000	3000	4000	9	
404	SE	6.1	12.43	15	18.46	23.88	26.48	28.54	0	
405	KK	SUB7 DITCH M-1 AT CONFLUENCE W/MUSTANG BAYOU								
406	KM	RUNOFF FROM SUBAREA 7								
407	KO									
408	BA	1.65								
409	PH	4		.79	1.72	3.85	4.95	5.55	6.9	8.3 10
410	LU	1	.1	1						
411	UC	1.9	3.71							
412	KK	SUB7								
413	KM	COMBINE HYDROS AT 7								
414	HC	2								
	*	***** MUSTANG BAYOU AT DOWNSTREAM OF DITCH M-1 *****								
415	KK	SUB7								
416	KM	COMBINE HYDROS AT 7								
417	HC	2								
418	KK	7T08								
419	KM	ROUTE FLOWS FROM 7 TO 8								
420	KO									
421	RS	9.2	FLOW	-1						
422	SV		177	288	455	1072	1898	2633		
423	SQ		500	1000	2000	4000	6000	8000		
424	SE	1	8.4	11.2	13.8	15.4	16.3	16.9		
425	KK	SUB8 MUSTANG BAYOU AT CONFLUENCE W/PERSIMMON BAYOU								
426	KM	RUNOFF FROM SUBAREA 8								
427	KO									
428	BA	3.63								
429	PH	4		.79	1.72	3.85	4.95	5.55	6.9	8.3 10
430	LU	1	.1	1						
431	UC	4.01	29.34							
432	KK	SUB8								
433	KM	COMBINE HYDROS AT 8								
434	HC	2								
435	KK	8T09								
436	KM	ROUTE FLOWS FROM 8 TO 9								
437	KO									
438	RS	6.1	FLOW	-1						
439	SV		141	231	424	801	1191	1563		
440	SQ		500	1000	2000	4000	6000	8000		
441	SE	0	7.5	10.4	12.4	13.4	14.2	14.7		

HEC-1 INPUT

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

442	KK	SUB9 MUSTANG BAYOU AT CONFLUENCE W/NEW BAYOU								
443	KM	RUNOFF FROM SUBAREA 9								
444	KO									
445	BA	1.98								
446	PH	4		.79	1.72	3.85	4.95	5.55	6.9	8.3 10
447	LU	1	.1	1						
448	UC	2.69	12.08							
449	KK	SUB9								
450	KM	COMBINE HYDROS AT 9								
451	HC	2								
	*	***** DITCH C-1 *****								

452 KK SUB1DITCH C-1 AT COUNTY RD 1128  
 453 KM RUNOFF FROM SUBAREA 1  
 454 KO  
 455 BA 1.0  
 456 PH 4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 457 LU 1 .1 1  
 458 UC 1.5 7.88

459 KK 1T02  
 460 KM ROUTE FLOWS FROM 1 TO 2  
 461 KO  
 462 RS 13.3 FLOW -1  
 463 SV 0 332 458 789 898 999 1092  
 464 SQ 0 500 1000 2000 3000 4000 5000  
 465 SE 44.2 50.4 51.63 52.26 54 54.03 54.1

466 KK SUB2DITCH C-1 AT M.P.R.R.  
 467 KM RUNOFF FROM SUBAREA 2  
 468 KO  
 469 BA 1.12  
 470 PH 4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 471 LU .9 .09 8.4  
 472 UC 1.32 8.38

473 KK SUB2  
 474 KM COMBINE HYDRS AT 2  
 475 HC 2

476 KK 2T03  
 477 KM ROUTE FLOWS FROM 2 TO 3  
 478 KO  
 479 RS 7.5 FLOW -1  
 480 SV 0 102 267 898 1530 2288 2510  
 481 SQ 0 500 1000 2000 3000 4000 5000  
 482 SE 32.5 39.56 42.89 45.28 46.76 47.55 47.6

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

483 KK SUB3DITCH C-1 AT DIRT RD  
 484 KO  
 485 BA 3.37  
 486 PH 4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 487 LU .9 .09 5.4  
 488 UC 3.06 9.33

489 KK SUB3  
 490 KM COMBINE HYDRS AT 3  
 491 HC 2

492 KK 3T04  
 493 KM ROUTE FLOWS FROM 3 TO 4  
 494 KO  
 495 RS 4.4 FLOW -1  
 496 SV 72 115 554 877 1329 2012  
 497 SQ 500 1000 2000 3000 4000 5000  
 498 SE 26.5 35.97 39.31 40.81 41.01 41.24 41.38

499 KK SUB4DITCH C-1 AT HERRING RD  
 500 KM RUNOFF FROM SUBAREA 4  
 501 KO  
 502 BA 3.73  
 503 PH 4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 504 LU .9 .09 5

506 KK SUB4  
 507 KM COMBINE HYDROS AT 4  
 508 HC 2

509 KK 4705  
 510 KM ROUTE FLOWS FROM 4 TO 5  
 511 KO  
 512 RS 3.6 FLOW -1  
 513 SV 0 58 117 732 755 1034 1346  
 514 SQ 500 1000 2000 3000 4000 5000  
 515 SE 23.5 32.12 35.42 36.3 36.37 36.44 36.5

516 KK SUBSDITCH C-1 AT COUNTY RD 1462  
 517 KM RUNOFF FROM SUBAREA 5  
 518 KO  
 519 BA 2.68  
 520 PH 4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 521 LU 1 .1 4.8  
 522 UC 3.1 10.09

523 KK SUB5  
 524 KM COMBINE HYDROS AT 5  
 525 HC 2

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

526 KK 5706  
 527 KM ROUTE FLOWS FROM 5 TO 6  
 528 KO  
 529 RS 6.5 FLOW -1  
 530 SV 0 30 50 306 630 850 938  
 531 SQ 500 1000 2000 3000 4000 5000  
 532 SE 18.1 27.45 30.79 33.9 34.36 34.78 35.2

533 KK SUB6DITCH C-1 AT HWY 35  
 534 KM 0 RUNOFF FROM SUBAREA 6  
 535 KO  
 536 BA .88  
 537 PH 4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 538 LU 1 .1 1  
 539 UC 2.47 10.75

540 KK SUB6  
 541 KM COMBINE HYDROS AT 6  
 542 HC 2

543 KK 6707  
 544 KM ROUTE FLOWS FROM 6 TO 7  
 545 KO  
 546 RS 2.2 FLOW -1  
 547 SV 0 62 103 484 1032 1432 1693  
 548 SQ 500 1000 2000 3000 4000 5000  
 549 SE 13.6 22.01 25.25 29.19 30.31 30.86 31.28

550 KK SUB7DITCH C-1 AT BRISCO CANAL  
 551 KM RUNOFF FROM SUBAREA 7  
 552 KO  
 553 BA 2.64  
 554 PH 4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 555 LU .8 .08 13  
 556 UC 2.4 11.08

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558 KM COMBINE HYDROS AT 7
559 HC 2

360 KK 7T08
561 KM ROUTE FLOWS FROM 7 TO 8
562 KO
563 RS 3.0 FLOW -1
564 SV 0 43 76 133 336 492 628
565 SQ 0 500 1000 2000 3000 4000 5000
566 SE 5.9 19.04 22.51 26.3 26.88 27.24 27.41

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567 KK SUBDITCH C-1 AT CONFLUENCE W/NEW BAYOU
568 KM RUNOFF FROM SUBAREA 8
569 KO
570 BA 2.27
571 PH 4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10
572 LU 1 .1 1

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HEC-1 INPUT

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LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

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573 UC 2.55 16.67

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574 KK SUB8
575 KM COMBINE HYDROS AT 8
576 HC 2

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577 KK SUB8
578 KM SUBTRACT FLOWS WHICH GO BACK TO DITCH C-1
579 KO
580 DT DIV
581 DI 0 1000 2000 3000 4000
582 DQ 0 900 1800 2700 3600
* ***** NEW BAYOU *****

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583 KK DIVT DITCH M-1 DIVERSION
584 KM RETRIEVE HYDROGRAPH
585 DR DIVT

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```

586 KK SUB1 NEW BAYOU AT M.P.R.R.
587 KM RUNOFF FROM SUBAREA 1
588 KO
589 BA 1.5
590 PH 4 0 .79 1.72 3.85 4.95 5.55 6.9 8.3 10
591 LU 1 0.1 1
592 UC 1.98 15.7

```

```

593 KK SUB1
594 KM COMBINE HYDROS AT 1
595 HC 2

```

```

596 KK SUB1
597 KM COMBINE HYDROS AT 1
598 HC 2

```

```

599 KK 1T02
600 KM ROUTE FLOW TO 2
601 KO
602 RS 6.1 FLOW -1
603 SV 0 61 100 348 697 1187
604 SQ 0 250 500 1000 2000 3000 0 0
605 SE 7.0 13.94 16.26 17.68 18.72 19.63 0 0

```

```

606 KK SUB2 NEW BAYOU AT BRISCO CANAL
607 KM RUNOFF FROM SUBAREA 2

```

609	BA	2.4									
610	PH	4	0	.79	1.72	3.85	4.95	5.55	6.9	8.3	10
611	LU	1	.1	1							
612	UC	2.48	14.02								

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

613	KK	SUB2									
614	KM	COMBINE HYDROS AT 2									
615	HC	2	0								
616	KK	2T03									
617	KM	ROUTE FLOW TO 3									
618	KO										
619	RS	3.9	FLOW	-1							
620	SV	0	34	55	200	661	1334				
621	SQ		250	500	1000	2000	3000	0	0		
622	SE	3.1	10.47	12.6	14.8	15.9	16.66	0	0		

623	KK	SUB3 NEW BAYOU AT M.P.R.R.									
624	KM	RUNOFF FROM SUBAREA 3									
625	KO										
626	BA	1.59									
627	PH	4	0	.79	1.72	3.85	4.95	5.55	6.9	8.3	10
628	LU	1	.1	1							
629	UC	2.81	9.93								

630	KK	SUB3									
631	KM	COMBINE HYDROS AT 3									
632	HC	2									

633	KK	3T04									
634	KM	ROUTE FLOW TO 4									
635	KO										
636	RS	4.7	FLOW	-1							
637	SV	0	20	33	66	401	880				
638	SQ		250	500	1000	2000	3000	0	0		
639	SE	1.	7.11	9.38	11.9	13.76	14.47	0	0		

640	KK	SUB4 NEW BAYOU AT M.P.R.R.									
641	KM	RUNOFF FROM SUBAREA 4									
642	KO										
643	BA	1.61									
644	PH	4	0	.79	1.72	3.85	4.95	5.55	6.9	8.3	10
645	LU	1	.1	1							
646	UC	2.28	9.06								

647	KK	SUB4									
648	KM	COMBINE HYDROS AT 4									
649	HC	2									

650	KK	4T05									
651	KM	ROUTE FLOW TO 5									
652	KO										
653	RS	5.0	FLOW	-1							
654	SV	0	26	48	81	311	612				
655	SQ		250	500	1000	2000	3000	0	0		
656	SE	-2.5	4.72	7.25	9.42	11.58	12.5	0	0		

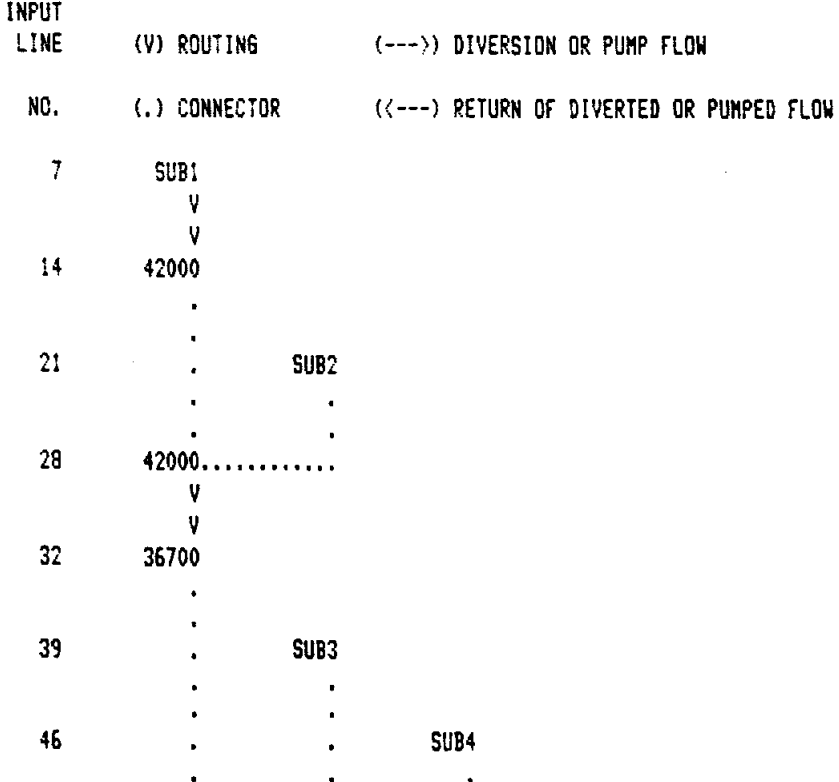
HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

558	KM	RUNOFF FROM SUBAREA 5									
559	KO										
660	BA	1.44									
661	PH	4	0	.79	1.72	2.85	4.95	5.55	6.9	8.3	10
662	LU	1.0	0.1	1							
563	UC	2.74	14.42								
664	KK	SUB5									
555	KM	COMBINE HYDROS AT 5									
666	KO										
557	HC	2									
	*	***** MUSTANG BAYOU AT DOWNSTREAM OF NEW BAYOU *****									
668	KK	SUB9									
669	KM	COMBINE HYDROS AT 9									
670	KO										
671	HC	2									
672	KK	9T010									
673	KM	ROUTE FLOWS TO 10									
674	KO										
675	RS	7.3	FLOW	-1							
676	SV		139	228	639	1209	1660	2168			
677	SB		500	1000	2000	4000	6000	8000			
678	SE	0	6.8	9.4	11.0	11.9	12.6	13.1			
679	KK	SUB10 MUSTANG BAYOU AT CONFLUENCE W/PERSIMMONS BAYOU									
680	KM	RUNOFF FROM SUBAREA 10									
681	KO										
682	BA	4.08									
683	PH	4	0	.79	1.72	2.85	4.95	5.55	6.9	8.3	10
684	LU	1	.1	3							
685	UC	1.0	17.02								
686	KK	SUB10									
687	KM	COMBINE HYDROS AT 10									
688	HC	2									
689	ZZ										

1

SCHEMATIC DIAGRAM OF STREAM NETWORK



```

53 36700.....
.
.
60 .-----> DIVERT
57 36700
.
.
63 32820
.
.
70 . SUB5
.
.
77 . 32820
.
.
84 . SUB6
.
.
91 . SUB7
.
.
98 . SUB8
.
.
105 32820.....
.
.
109 31600
.
.
116 . SUB9
.
.
123 31600.....
.
.
127 9T09A
.
.
134 . 9A
.
.
141 9A.....
.
.
145 9Ato9B
.
.
152 . 9B
.
.
159 9B.....
.
.
163 9Bto10
.
.
170 . SUB10
.
.
177 SUB10.....
.
.
181 10T01

```



188 . SUB1  
.  
195 SUB1.....  
V  
V  
198 1T02  
.  
205 . SUB2  
.  
212 SUB2.....  
V  
V  
215 2T03  
.  
222 . SUB3  
.  
229 SUB3.....  
V  
V  
232 3T04  
.  
239 . SUB4  
.  
246 SUB4.....  
V  
V  
249 4T05  
.  
256 . SUB5  
.  
263 SUB5.....  
V  
V  
266 5T06  
.  
273 . SUB6  
.  
280 SUB6.....  
V  
V  
283 6T07  
.  
290 . SUB7  
.  
297 SUB7.....  
.  
300 . SUB1  
V  
V  
307 . 1T02

314 . . . . . SUB2  
. . . . .  
321 . . . . . SUB2.....  
    V  
    V  
324 . . . . . 2T03  
. . . . .  
331 . . . . . SUB3  
. . . . .  
338 . . . . . SUB3.....  
    V  
    V  
341 . . . . . 3T04  
. . . . .  
348 . . . . . SUB4  
. . . . .  
355 . . . . . SUB4.....  
    V  
    V  
358 . . . . . 4T05  
. . . . .  
365 . . . . . SUB5  
. . . . .  
372 . . . . . SUB5.....  
    V  
    V  
375 . . . . . 5T06  
. . . . .  
382 . . . . . SUB6  
. . . . .  
389 . . . . . SUB6.....  
. . . . .  
395 . . . . . -----> DIVT  
392 . . . . . SUB6  
    V  
    V  
398 . . . . . 6T07  
. . . . .  
405 . . . . . SUB7  
. . . . .  
412 . . . . . SUB7.....  
. . . . .  
415 . . . . . SUB7.....  
    V  
    V  
418 . . . . . 7T08  
. . . . .  
425 . . . . . SUB8  
. . . . .

432	SUB0.....	
	V	
	V	
435	8T09	
	.	
442		SUB9
	.	.
	.	.
449	SUB9.....	
	.	
452		SUB1
	.	.
	V	
	V	
459	1T02	
	.	
	.	
466		SUB2
	.	.
	.	.
473	SUB2.....	
	.	
	V	
	V	
476	2T03	
	.	
	.	
483		SUB3
	.	.
	.	.
489	SUB3.....	
	.	
	V	
	V	
492	3T04	
	.	
	.	
499		SUB4
	.	.
	.	.
506	SUB4.....	
	.	
	V	
	V	
509	4T05	
	.	
	.	
516		SUB5
	.	.
	.	.
523	SUB5.....	
	.	
	V	
	V	
526	5T06	
	.	
	.	
533		SUB6
	.	.
	.	.
540	SUB6.....	
	.	
	V	
	V	
543	6T07	
	.	
	.	
550		SUB7
	.	.
	.	.

```

.....
V
V
560 7T08
.
.
567 . SUB8
.
.
574 SUB8.....
.
.
580 .-----> DIV
577 SUB8
.
.
585 . <----- DIVT
583 . DIVT
.
.
586 . SUB1
.
.
593 . SUB1.....
.
.
596 SUB1.....
V
V
599 1T02
.
.
606 . SUB2
.
.
613 SUB2.....
V
V
616 2T03
.
.
623 . SUB3
.
.
630 SUB3.....
V
V
633 3T04
.
.
640 . SUB4
.
.
647 SUB4.....
V
V
650 4T05
.
.
657 . SUB5
.
.
664 SUB5.....
.
.
668 SUB9.....

```

```

672      9T010
        .
        .
679      .      SUB10
        .
        .
686      SUB10.....

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

\*\*\*\*

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985  
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

\*\*\*\*

SNOWDEN ENGINEERING, INC.  
 MUSTANG BAYOU WATERSHED, 25-YR. HYDROGRAPH FOR EXISTING CONDITION  
 BRAZORIA COUNTY, C&R DIST. 3, MASTER DRAINAGE STUDY  
 FILE NAME: MBEX25

```

6 IO      OUTPUT CONTROL VARIABLES
          IPRNT      5  PRINT CONTROL
          IPLOT      0  PLOT CONTROL
          BSCAL      0.  HYDROGRAPH PLOT SCALE

```

```

IT        HYDROGRAPH TIME DATA
          NMIN      15  MINUTES IN COMPUTATION INTERVAL
          IDATE     1  0  STARTING DATE
          ITIME     0000 STARTING TIME
          NQ        200 NUMBER OF HYDROGRAPH ORDINATES
          NDDATE    3  0  ENDING DATE
          NDTIME    0145 ENDING TIME

```

```

          COMPUTATION INTERVAL .25 HOURS
          TOTAL TIME BASE      49.75 HOURS

```

ENGLISH UNITS

\*\*\*\*\*

```

          *****
          *          *
7 KK      *      SUB1 *      MUSTANG BAYOU AT D.R.A. CANAL
          *          *
          *****

```

```

9 KO      OUTPUT CONTROL VARIABLES
          IPRNT      5  PRINT CONTROL
          IPLOT      0  PLOT CONTROL
          BSCAL      0.  HYDROGRAPH PLOT SCALE

```

\*\*\*\*\*

```

          *****
          *          *
14 KK     *      42000 *      MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH

```

\*\*\*\*\*

16 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

\*            \*  
21 KK    \*    SUB2   \*    MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH  
\*            \*  
\*\*\*\*\*

23 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

\*            \*  
28 KK    \*    42000 \*    MUSTANG BAYOU AT SOUTH EDGE OF THUNDERBIRD NORTH  
\*            \*  
\*\*\*\*\*

30 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

\*            \*  
32 KK    \*    36700 \*    MUSTANG BAYOU AT RELIEF CHANNEL  
\*            \*  
\*\*\*\*\*

34 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

\*            \*  
39 KK    \*    SUB3   \*    MUSTANG BAYOU AT RELIEF CHANNEL  
\*            \*  
\*\*\*\*\*

41 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
#            #  
46 KK       #        SUB4       #        MUSTANG BAYOU AT RELIEF CHANNEL  
#            #  
\*\*\*\*\*

48 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
#            #  
53 KK       #        36700       #        MUSTANG BAYOU AT RELIEF CHANNEL  
#            #  
\*\*\*\*\*

55 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
#            #  
57 KK       #        36700       #        MUSTANG BAYOU AT RELIEF CHANNEL  
#            #  
\*\*\*\*\*

59 KO            OUTPUT CONTROL VARIABLES  
                 IPRNT            5 PRINT CONTROL  
                 IPLOT            0 PLOT CONTROL  
                 QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
#            #  
63 KK       #        32820       #        MUSTANG BAYOU AT QUAIL GLEN DITCH  
#            #  
\*\*\*\*\*

65 KO            OUTPUT CONTROL VARIABLES

IPLOT 0 PRINT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

\* \*  
70 KK \* SUB5 \* QUAIL GLEN DITCH AT B.R.A. CANAL  
\* \*

\*\*\*\*\*

72 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

\* \*  
77 KK \* 32820 \* MUSTANG BAYOU AT QUAIL GLEN DITCH  
\* \*

\*\*\*\*\*

79 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

\* \*  
84 KK \* SUB6 \* MUSTANG BAYOU AT QUAIL GLEN DITCH  
\* \*

\*\*\*\*\*

86 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

\* \*  
91 KK \* SUB7 \* MUSTANG BAYOU AT QUAIL GLEN DITCH  
\* \*

\*\*\*\*\*

93 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL



\*\*\* \*\*

```

*****
*      *
98 KK * SUB8 * MUSTANG BAYOU AT QUAIL GLEN DITCH
*      *
*****

```

```

100 KO      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          BSCAL      0. HYDROGRAPH PLOT SCALE

```

\*\*\* \*\*

```

*****
*      *
105 KK * 32820 * MUSTANG BAYOU AT QUAIL GLEN DITCH
*      *
*****

```

```

107 KO      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          BSCAL      0. HYDROGRAPH PLOT SCALE

```

\*\*\* \*\*

```

*****
*      *
109 KK * 31600 * MUSTANG BAYOU AT MISSOURI CITY E.T.J.
*      *
*****

```

```

111 KO      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          BSCAL      0. HYDROGRAPH PLOT SCALE

```

\*\*\* \*\*

```

*****
*      *
116 KK * SUB9 * MUSTANG BAYOU AT MISSOURI CITY E.T.J.
*      *
*****

```

```

118 KO      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          BSCAL      0. HYDROGRAPH PLOT SCALE

```

\*\*\*\*\*  
\*           \*  
170 KK   \*   SUB10   \*  
\*           \*  
\*\*\*\*\*

172 KO           OUTPUT CONTROL VARIABLES  
          IPRNT           5   PRINT CONTROL  
          IPLOT           0   PLOT CONTROL  
          QSCAL           0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*           \*  
177 KK   \*   SUB10   \*  
\*           \*  
\*\*\*\*\*

179 KO           OUTPUT CONTROL VARIABLES  
          IPRNT           5   PRINT CONTROL  
          IPLOT           0   PLOT CONTROL  
          QSCAL           0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*           \*  
181 KK   \*   10T01   \*  
\*           \*  
\*\*\*\*\*

183 KO           OUTPUT CONTROL VARIABLES  
          IPRNT           5   PRINT CONTROL  
          IPLOT           0   PLOT CONTROL  
          QSCAL           0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*           \*  
188 KK   \*   SUB1   \*   BRAZORIA COUNTY, STATE HWY 288  
\*           \*  
\*\*\*\*\*

190 KO           OUTPUT CONTROL VARIABLES  
          IPRNT           5   PRINT CONTROL  
          IPLOT           0   PLOT CONTROL  
          QSCAL           0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

```
*****
*           *
145 KK * 9Ato9B *
*           *
*****
```

```
147 KO      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
*           *
152 KK * 9B * MUSTANG BAYOU AT M.P.R.R.
*           *
*****
```

```
154 KO      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
*           *
159 KK * 9B *
*           *
*****
```

```
161 KO      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

```
*****
*           *
163 KK * 9Bto10 *
*           *
*****
```

```
165 KO      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

123 KK \* 31600 \* MUSTANG BAYOU AT MISSOURI CITY E.T.J.  
\* \*  
\*\*\*\*\*

125 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

127 KK \* 9TD9A \*  
\* \*  
\*\*\*\*\*

129 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

134 KK \* 9A \* MUSTANG BAYOU AT 2.5 MILE DOWNSTREAM FROM MISSOURI CITY ETJ  
\* \*  
\*\*\*\*\*

136 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

141 KK \* 9A \*  
\* \*  
\*\*\*\*\*

143 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*

234 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

239 KK           \*           \*  
                  \*        SUB4 \*        M.P.R.R.  
                  \*           \*  
                  \*\*\*\*\*

241 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

249 KK           \*           \*  
                  \*        4T05 \*  
                  \*           \*  
                  \*\*\*\*\*

251 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

256 KK           \*           \*  
                  \*        SUB5 \*        HWY 35  
                  \*           \*  
                  \*\*\*\*\*

258 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

266 KK           \*           \*  
                  \*        5T06 \*  
                  \*           \*  
                  \*\*\*\*\*

198 KK \* 1T02 \*  
\* \*  
\*\*\*\*\*

200 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
205 KK \* SUB2 \* COUNTY ROUTE 1128  
\* \*  
\*\*\*\*\*

207 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
215 KK \* 2T03 \*  
\* \*  
\*\*\*\*\*

217 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
222 KK \* SUB3 \* NEAR HWY 6  
\* \*  
\*\*\*\*\*

224 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
232 KK \* 3T04 \*  
\* \*

268 KO      OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
273 KK   \*    SUB6   \*    COUNTY ROUTE 160  
\*            \*  
\*\*\*\*\*

275 KO      OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
283 KK   \*    6T07   \*  
\*            \*  
\*\*\*\*\*

285 KO      OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
290 KK   \*    SUB7   \*    UPSTREAM FROM CONFLUENCE W/DITCH M-1  
\*            \*  
\*\*\*\*\*

292 KO      OUTPUT CONTROL VARIABLES  
          IPRNT            5 PRINT CONTROL  
          IPLOT            0 PLOT CONTROL  
          QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
300 KK   \*    SUB1   \*    DITCH M-1 AT WEST DUMBLE  
\*            \*  
\*\*\*\*\*

302 KO      OUTPUT CONTROL VARIABLES

IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
307 KK \* 1702 \*  
\* \*  
\*\*\*\*\*

309 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
314 KK \* SUB2 \* DITCH M-1 AT JOHNSON ST.  
\* \*  
\*\*\*\*\*

316 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
324 KK \* 2703 \*  
\* \*  
\*\*\*\*\*

326 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
331 KK \* SUB3 \* DITCH M-1 AT HWY 35  
\* \*  
\*\*\*\*\*

333 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL



\*\*\* \*\* \*\* \*\* \*\*

341 KK \* 3T04 \*  
\*\*\*\*\*

343 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

348 KK \* SUB4 \* DITCH M-1 AT PIPELINE CROSSING  
\*\*\*\*\*

350 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

358 KK \* 4T05 \*  
\*\*\*\*\*

360 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

365 KK \* SUB5 \* DITCH M-1 AT BRISCO CANAL  
\*\*\*\*\*

367 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* 5T06 \*  
\* \*  
\*\*\*\*\*

377 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 250. TO 500.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* SUB6 \* DITCH M-1 AT MPRR  
\* \*  
\*\*\*\*\*

384 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* SUB6 \*  
\* \*  
\*\*\*\*\*

394 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* 6T07 \*  
\* \*  
\*\*\*\*\*

400 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 1000.  
 THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
 THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

405 KK \* SUB7 \* DITCH M-1 AT CONFLUENCE W/MUSTANG BAYOU

\*\*\*\*\*

407 KO OUTPUT CONTROL VARIABLES  
 IPRNT 5 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

418 KK \* 7T08 \*

\*\*\*\*\*

420 KO OUTPUT CONTROL VARIABLES  
 IPRNT 5 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

425 KK \* SUB8 \* MUSTANG BAYOU AT CONFLUENCE W/PERSIMMON BAYOU

\*\*\*\*\*

427 KO OUTPUT CONTROL VARIABLES  
 IPRNT 5 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

435 KK \* 8T09 \*

\*\*\*\*\*

437 KO OUTPUT CONTROL VARIABLES

IPLOT 0 PRINT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*  
\* \*  
442 KK \* SUB9 \* MUSTANG BAYOU AT CONFLUENCE W/NEW BAYOU  
\* \*  
\*\*\*\*\*

444 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*  
\* \*  
452 KK \* SUB1 \* DITCH C-1 AT COUNTY RD 1128  
\* \*  
\*\*\*\*\*

454 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*  
\* \*  
459 KK \* 1T02 \*  
\* \*  
\*\*\*\*\*

461 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2000. TO 5000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\*

\*\*\*\*\*  
\* \*  
466 KK \* SUB2 \* DITCH C-1 AT M.P.R.R.  
\* \*  
\*\*\*\*\*

468 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLDT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
476 KK       \*        2T03   \*  
\*            \*  
\*\*\*\*\*

478 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLDT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
483 KK       \*        SUB3   \*        DITCH C-1 AT DIRT RD  
\*            \*  
\*\*\*\*\*

484 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLDT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
492 KK       \*        3T04   \*  
\*            \*  
\*\*\*\*\*

494 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLDT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
499 KK       \*        SUB4   \*        DITCH C-1 AT HERRING RD  
\*            \*  
\*\*\*\*\*

501 KO            OUTPUT CONTROL VARIABLES

IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
# #  
509 KK # 4T05 #  
# #  
\*\*\*\*\*

511 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2000. TO 3000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
# #  
516 KK # SUB5 # DITCH C-1 AT COUNTY RD 1462  
# #  
\*\*\*\*\*

518 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
# #  
526 KK # 5T06 #  
# #  
\*\*\*\*\*

528 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 1000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

533 KK \* SUB6 \* DITCH C-1 AT HWY 35  
\* \*  
\*\*\*\*\*

535 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
543 KK \* 6T07 \*  
\* \*  
\*\*\*\*\*

545 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
550 KK \* SUB7 \* DITCH C-1 AT BRISCO CANAL  
\* \*  
\*\*\*\*\*

552 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
560 KK \* 7T08 \*  
\* \*  
\*\*\*\*\*

562 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
567 KK \* SUB8 \* DITCH C-1 AT CONFLUENCE W/NEW BAYOU

\*\*\*\*\*

569 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

577 KK            \*            \*  
                  \*        SUB8   \*  
                  \*            \*  
                  \*\*\*\*\*

579 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

586 KK            \*            \*  
                  \*        SUB1   \*        NEW BAYOU AT M.P.R.R.  
                  \*            \*  
                  \*\*\*\*\*

588 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

599 KK            \*            \*  
                  \*        1T02   \*  
                  \*            \*  
                  \*\*\*\*\*

601 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

606 KK            \*            \*  
                  \*        SUB2   \*        NEW BAYOU AT BRISCO CANAL  
                  \*            \*  
                  \*\*\*\*\*



608 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
616 KK      \*      2T03   \*  
\*            \*  
\*\*\*\*\*

618 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
623 KK      \*      SUB3   \*      NEW BAYOU AT M.P.R.R.  
\*            \*  
\*\*\*\*\*

625 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
633 KK      \*      3T04   \*  
\*            \*  
\*\*\*\*\*

635 K0            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
640 KK      \*      SUB4   \*      NEW BAYOU AT M.P.R.R.  
\*            \*  
\*\*\*\*\*

642 K0            OUTPUT CONTROL VARIABLES

IPLDT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
650 KK \* 4T05 \*  
\* \*  
\*\*\*\*\*

652 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLDT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
657 KK \* SUB5 \* NEW BAYOU AT THE CONFLUENCE W/MUSTANG BAYOU  
\* \*  
\*\*\*\*\*

659 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLDT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
664 KK \* SUB5 \*  
\* \*  
\*\*\*\*\*

666 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLDT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
668 KK \* SUB9 \*  
\* \*  
\*\*\*\*\*

670 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLDT 0 PLOT CONTROL







								24.09	24.50
+	HYDROGRAPH AT								
+	SUB7	618.	16.25	576.	378.	213.	2.43		
	2 COMBINED AT								
	SUB7	3234.	24.25	3136.	2487.	1667.	36.10		
	HYDROGRAPH AT								
+	SUB1	142.	12.75	85.	30.	15.	.14		
	ROUTED TO								
+	1702	98.	14.50	78.	30.	15.	.14	31.56	14.50
+	HYDROGRAPH AT								
+	SUB2	895.	13.25	604.	236.	116.	1.02		
	2 COMBINED AT								
+	SUB2	974.	13.50	681.	266.	131.	1.16		
	ROUTED TO								
+	2703	663.	17.00	618.	266.	131.	1.16	32.05	17.00
+	HYDROGRAPH AT								
+	SUB3	523.	13.75	375.	150.	74.	.68		
	2 COMBINED AT								
+	SUB3	1051.	14.00	972.	416.	204.	1.84		
	ROUTED TO								
+	3704	973.	17.50	910.	415.	204.	1.84	29.03	17.50
+	HYDROGRAPH AT								
+	SUB4	827.	14.50	697.	340.	173.	1.74		
	2 COMBINED AT								
+	SUB4	1678.	16.25	1567.	752.	377.	3.58		
	ROUTED TO								
+	4705	1469.	22.50	1406.	752.	377.	3.58	27.36	22.50
+	HYDROGRAPH AT								
+	SUB5	851.	15.50	744.	396.	206.	2.18		
	2 COMBINED AT								
+	SUB5	1960.	21.00	1917.	1147.	583.	5.76		
	ROUTED TO								
+	5706	1945.	23.75	1907.	1147.	583.	5.76	25.99	23.75
+	HYDROGRAPH AT								
+	SUB6	154.	14.25	134.	69.	36.	.38		
	2 COMBINED AT								
+	SUB6	2007.	23.50	1975.	1216.	618.	6.14		
	DIVERSION TO								
+	DIVT	803.	23.50	790.	486.	247.	6.14		



	ROUTED TO									
+		4T05	1962.	27.00	1943.	1580.	869.	9.22		
+									36.27	27.00
	HYDROGRAPH AT									
+		SUB5	858.	15.50	778.	460.	248.	2.68		
	2 COMBINED AT									
+		SUB5	2379.	24.00	2342.	2010.	1117.	11.90		
	ROUTED TO									
+		5T06	2345.	28.75	2317.	1992.	1114.	11.90		
+									34.06	28.75
	HYDROGRAPH AT									
+		SUB6	269.	15.00	246.	147.	80.	.88		
	2 COMBINED AT									
+		SUB6	2445.	28.25	2415.	2110.	1194.	12.78		
	ROUTED TO									
+		6T07	2319.	34.25	2302.	2034.	1186.	12.78		
+									29.55	34.25
	HYDROGRAPH AT									
+		SUB7	823.	15.00	760.	473.	262.	2.64		
	2 COMBINED AT									
+		SUB7	2536.	32.00	2524.	2352.	1449.	15.42		
	ROUTED TO									
+		7T08	2528.	34.50	2518.	2346.	1441.	15.42		
+									26.61	34.50
	HYDROGRAPH AT									
+		SUB8	480.	15.75	458.	323.	189.	2.27		
	2 COMBINED AT									
+		SUB8	2725.	32.50	2720.	2596.	1630.	17.69		
	DIVERSION TO									
+		DIV	2452.	32.25	2448.	2337.	1467.	17.69		
	HYDROGRAPH AT									
+		SUB8	272.	32.25	272.	260.	163.	17.69		
	HYDROGRAPH AT									
+		DIVT	803.	23.50	790.	486.	247.	.00		
	HYDROGRAPH AT									
+		SUB1	335.	15.25	319.	220.	127.	1.50		
	2 COMBINED AT									
+		SUB1	1055.	20.25	1046.	705.	374.	1.50		
	2 COMBINED AT									
+		SUB1	1297.	20.00	1292.	947.	537.	19.19		
	ROUTED TO									
+		1T02	1286.	26.75	1268.	941.	531.	19.19		
+									17.98	26.75
	HYDROGRAPH AT									
+		SUB2	587.	15.50	552.	367.	208.	2.40		



+	2 COMBINED AT	SUB2	1632.	25.00	1602.	1280.	739.	21.59		
	ROUTED TO									
+		2T03	1535.	31.25	1512.	1255.	732.	21.59	15.39	31.25
+	HYDROGRAPH AT									
+		SUB3	516.	15.25	466.	272.	146.	1.59		
+	2 COMBINED AT									
+		SUB3	1676.	30.25	1655.	1460.	877.	23.18		
+	ROUTED TO									
+		3T04	1650.	34.25	1631.	1444.	872.	23.18	13.11	34.25
+	HYDROGRAPH AT									
+		SUB4	565.	14.75	505.	281.	149.	1.61		
+	2 COMBINED AT									
+		SUB4	1743.	33.25	1728.	1626.	1021.	24.79		
+	ROUTED TO									
+		4T05	1736.	36.00	1721.	1621.	1014.	24.79	11.01	36.00
+	HYDROGRAPH AT									
+		SUB5	345.	15.50	325.	218.	124.	1.44		
+	2 COMBINED AT									
+		SUB5	1841.	35.25	1830.	1787.	1138.	26.23		
+	2 COMBINED AT									
+		SUB9	6799.	31.50	6740.	5767.	3511.	75.73		
+	ROUTED TO									
+		9T010	6773.	34.50	6716.	5737.	3300.	75.73	12.79	34.50
+	HYDROGRAPH AT									
+		SUB10	852.	15.00	817.	578.	340.	4.08		
+	2 COMBINED AT									
+		SUB10	7101.	33.75	7051.	6102.	3641.	79.81		

\*\*\* NORMAL END OF HEC-1 \*\*\*

**APPENDIX II**

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1	ID SNOWDEN ENGINEERING, INC.
2	ID CHOCOLATE BAYOU WATERSHED, 100-YR. HYDROGRAPH FOR EXISTING CONDITION
3	ID BRAZORIA COUNTY, C & R DISTRICT C, MASTER DRAINAGE STUDY
4	ID FILENAME : CHEX100
	*DIAGRAM
5	IT 15 200
6	IG 5 0
7	KK SUB1 CHOCOLATE BAYOU AT ALLELUITE TRAIL
8	KN RUNOFF FROM SUBAREA 1
9	KO
10	BA 1.39
11	PH 1 0 0.92 2.03 4.65 6.25 7.15 8.75 10.8 13.0
12	LU 1.0 0.1 1.0 0 0
13	UC 3.0 15.
14	KK 1 TO 2
15	KN ROUTE FLOWS FROM SUBAREA 1 TO SUBAREA 2
16	KO
17	RS 2.9 FLOW -1
18	SV 0 33 82 387 703 951 0
19	SG 0 500 1000 5000 10000 15000 0
20	SE 40.9 48.1 49.3 51.84 53.42 54.52 0
21	KK SUB2 CHOCOLATE BAYOU AT RIFLE RANGE
22	KN RUNOFF FROM SUBAREA 2
23	KO
24	BA 5.92
25	PH 1 0 .92 2.03 4.65 6.25 7.15 8.75 10.9 13.0
26	LU 1.0 0.1 1.2 0 0
27	UC 3.42 19.5
28	KK SUB2
29	KN COMBINE HYDROS AT 2
30	KO
31	HC 2
32	KK 2 TO 3
33	KN ROUTE FLOWS FROM 2 TO 3
34	KO
35	RS 15.3 FLOW -1



LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

92 KK SUB5  
 93 KM 0 COMBINE HYDROS AT 5  
 94 KO  
 95 HC 2

96 KK SUB6 UNNAMED TRIBUTARY  
 97 KM RUNOFF FROM SUBAREA 5  
 98 KO  
 99 BA 7.47  
 100 PH 1.0 0 .92 2.03 4.65 5.25 7.15 8.75 10.8 13.0  
 101 LU 1.0 0.1 1.0 0 0  
 102 UC 4.74 24.95

103 KK SUB6  
 104 KM COMBINE HYDROS AT 6  
 105 KO  
 106 HC 2

107 KK 6 TO 7  
 108 KM ROUTE FLOWS FROM 6 TO 7  
 109 KO  
 110 RS 3 FLOW -1  
 111 SV 0 46 71 678 1373 2017 0  
 112 SQ 0 500 1000 5000 10000 15000 0  
 113 SE 14.0 26.18 28.0 33.16 35.12 36.69 0

114 KK SUB7 CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE WITH HAYES CREEK  
 115 KM RUNOFF FROM SUBAREA 7  
 116 KO  
 117 BA .99  
 118 PH 1 0 .92 2.03 4.65 6.25 7.15 8.75 10.8 13.0  
 119 LU 1.0 0.1 1.0 0 0  
 120 UC 2.74 10.35

121 KK SUB7  
 122 KM COMBINE HYDROS AT 7  
 123 KO  
 124 HC 2

125 KK SUB8 HAYES CREEK  
 126 KM RUNOFF FROM SUBAREA 8  
 127 KO  
 128 BA 14.13  
 129 PH 1.0 0 .92 2.03 4.65 6.25 7.15 8.75 10.8 13.0  
 130 LU 1.0 .1 1. 0 0  
 131 UC 4.96 20.11

132 KK SUB8  
 133 KM COMBINE HYDROS AT 8  
 134 KO  
 135 HC 2

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

136 KK 8 to 9  
 137 KM ROUTE FLOWS FROM 8 TO 9

140	SV	0	131	451	3293	5353	9439	0				
141	SQ	0	500	1000	5000	10000	15000	0				
142	SE	11.2	20.5	22.4	30.32	32.42	32.4	0				
143	KK	SUB9 CHOCOLATE BAYOU AT FM 1462										
144	KM	RUNOFF FROM SUBAREA 9										
145	KO											
146	BA	14.4										
147	PH	1.0	0	.92	2.03	4.55	5.25	7.15	8.75	10.3	12.0	
148	LU	1.0	.1	1.0	0	0						
149	UC	5.32	28.08									
150	KK	SUB9										
151	KM	COMBINE HYDROS AT 9										
152	KO											
153	HC	2										
154	KK	9 TO10										
155	KM	ROUTE FLOWS FROM 9 TO 10										
156	KO											
157	RS	10.8	FLOW	-1								
158	SV	0	357	617	3111	7013	10530	14164				
159	SQ	0	500	1000	5000	10000	15000	20000				
160	SE	1.11	7.66	11.26	19.74	23.24	25.14	26.48				
161	KK	SUB10 CHOCOLATE BAYOU AT HWY 35										
162	KM	RUNOFF FROM SUBAREA 10										
163	KO											
164	BA	14.2										
165	PH	1.0	0	.92	2.03	4.65	5.25	7.15	8.75	10.8	13.0	
166	LU	1.0	0.1	2.0	0	0						
167	UC	5.88	26.05									
168	KK	SUB10										
169	KM	COMBINE HYDROS AT 10										
170	KO											
171	HC	2										
172	KK	10TO11										
173	KM	ROUTE FLOWS FROM 10 TO 11										
174	KO											
175	RS	10	FLOW	-1								
176	SV	0	112	278	1592	1952	4184	5376				
177	SQ	0	500	1000	5000	10000	15000	20000				
178	SE	1.11	3.53	6.56	15.71	18.81	20.4	21.57				

HEC-1 INPUT

PAGE 5

LINE ID.....1.....2.....2.....4.....5.....6.....7.....8.....9.....10

179	KK	SUB11 CHOCOLATE BAYOU UPSTREAM FROM DITCH C-1										
180	KM	RUNOFF FROM SUBAREA 11										
181	KO											
182	BA	11.5										
183	PH	1.0	0	.92	2.03	4.65	6.25	7.15	8.75	10.8	13.0	
184	LU	1.0	0.1	1.0	0	0						
185	UC	9.0	42.13									
186	KK	SUB11										
187	KM	COMBINE HYDROS AT 11										
188	KO											
189	HC	2										
	*	***** DITCH C-1 *****										

192 KO  
 193 BA 1  
 194 PH 1 0.92 2.03 4.55 6.25 7.15 8.75 10.8 13  
 195 LU 1  
 196 UC 1.5 7.98

197 KK 1792  
 198 KM ROUTE FLOWS FROM 1 TO 2  
 199 KO  
 200 RS 13.3 FLOW -1  
 201 SV 0 332 458 799 898 999 1092  
 202 SQ 0 500 1000 2000 3000 4000 5000 0  
 203 SE 44.2 50.4 51.63 52.26 54 54.03 54.03 0

204 KK SUB2 DITCH C-1 AT N.P.R.R.  
 205 KM RUNOFF FROM SUBAREA 2  
 206 KO  
 207 BA 1.12  
 208 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 209 LU .9 .09 8.4  
 210 UC 1.32 8.38

211 KK SUB2  
 212 KM COMBINE HYDROS AT 2  
 213 HC 2

214 KK 2793  
 215 KM ROUTE FLOWS FROM 2 TO 3  
 216 KO  
 217 RS 7.5 FLOW -1  
 218 SV 0 103 267 998 1530 2288 2510  
 219 SQ 500 1000 2000 3000 4000 5000 0  
 220 SE 32.5 39.55 42.89 45.29 46.75 47.55 47.6 0  
 HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

221 KK SUB3 DITCH AT DIRTY RD  
 222 KM RUNOFF FROM SUBAREA 3  
 223 KO  
 224 BA 3.37  
 225 PH 1 0.92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 226 LU .9 .09 5.4  
 227 UC 3.06 9.33

228 KK SUB3  
 229 KM COMBINE HYDROS AT 3  
 230 HC 2

231 KK 3794  
 232 KM ROUTE FLOWS FROM 3 TO 4  
 233 KO  
 234 RS 4.4 FLOW -1  
 235 SV 0 72 115 554 977 1329 2012  
 236 SQ 500 1000 2000 3000 4000 5000 0  
 237 SE 26.5 35.97 39.31 40.81 41.01 41.24 41.38 0

238 KK SUB4 DITCH C-1 AT HERRING RD  
 239 KM RUNOFF FROM SUBAREA 4  
 240 KO  
 241 BA 3.73  
 242 PH 1 0.92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 243 LU 0.9 .09 5



298 HC 2

299 KK 7708

300 KM ROUTE FLOWS FROM 7 TO 8

301 KO

302 RS 3.0 FLOW -1

303 SV 0 43 76 123 336 492 623

304 SQ 500 1000 2000 3000 4000 5000 0

305 SE 5.9 19.04 22.51 26.3 29.98 27.24 27.41 0

306 KK SUB8 DITCH C-1 AT CONFLUENCE W/NEW BAYOU

307 KM RUNOFF FROM SUBAREA 8

308 KO

309 BA 2.27

310 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.9 13

311 LU 1 .1 1

REC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

312 UC 2.55 16.57

313 KK SUB8

314 KM COMBINE HYDROS AT 8

315 HC 2

316 KK SUB8

317 KM SUBTRACT FLOW WHICH GOES TO NEW BAYOU

318 KO

319 DT DIV

320 DI 0 1000 2000 3000 4000

321 DQ 0 100 200 300 400

322 KK 9T09

323 KM ROUTE FLOWS FROM 8 TO 9

324 KO

325 RS 4.4 FLOW -1

326 SV 0 75 123 301 729 996 1202

327 SQ 500 1000 2000 3000 4000 5000 0

328 SE -7 7.69 10.78 14.89 17.33 19.15 20.45 0

329 KK SUB9 DITCH C-1 AT CONFLUENCE W/CHOCOLATE BAYOU

330 KM RUNOFF FROM SUBAREA 9

331 KO

332 BA 2.29

333 PH 1 .92 2.03 4.65 6.25 7.15 8.75 10.9 13

334 LU 1 .1 1

335 UC 2.69 10.98

336 KK SUB9

337 KM COMBINE HYDROS AT 9

338 HC 2

\*\*\*\*\* CHOCOLATE BAYOU AT DOWNSTREAM OF DITCH C-1 \*\*\*\*\*

339 KK SUB9: CHOCOLATE BAYOU AT DOWNSTREAM OF DITCH C-1

340 KM COMBINE HYDROS AT 11

341 KO

342 HC 2

343 KK 11TC12

344 KM ROUTE FLOWS FROM 11 TO 12

345 KO

346 RS 9 FLOW -1

347 SV 52 150 987 2788 4334 5656



350 KK SUB12 CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE W/CORNER BAYOU  
 351 KM RUNOFF FROM SUBAREA 12  
 352 KO  
 353 BA 3.69  
 354 PH 1 .92 2.03 4.65 6.25 7.15 9.75 10.8 13  
 355 LU 1 .1 2.9  
 356 UC 3.3 15.15

REC-1 INPUT

PAGE 9

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

357 KK SUB12  
 358 KM COMBINE HYDROS AT 12  
 359 KO  
 360 HC 2

361 KK 12T013  
 362 KM ROUTE FLOWS FROM 12 TO 13  
 363 KO  
 364 RS 5.2 FLOW -1  
 365 SV 0 84 112 471 1152 2173 3265  
 366 SQ 0 500 1000 5000 10000 15000 20000  
 367 SE 0 0.12 .28 2.04 5.07 7.6 9.57

368 KK SUB13 CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE W/PLEASANT BAYOU  
 369 KM RUNOFF FROM SUBAREA 13  
 370 KO  
 371 BA 7.95  
 372 PH 1 0 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 373 LU 1.0 0.1 1  
 374 UC 4.43 12.7

375 KK SUB13  
 376 KM COMBINE HYDROS AT 13  
 377 KO  
 378 HC 2

379 KK 13T014  
 380 KM ROUTE HYDROS FROM 13 TO 14  
 381 KO  
 382 RS 7 FLOW -1  
 383 SV 0 161 176 396 624 1082 1648  
 384 SQ 0 500 1000 5000 10000 15000 20000  
 385 SE 0 0.1 0.21 0.72 2.12 3.87 5.5

386 KK SUB14 CHOCOLATE BAYOU AT CHEMICAL PLANT  
 387 KM RUNOFF FROM SUBAREA 14  
 388 KO  
 389 BA 11.92  
 390 PH 1 0 .92 2.03 4.65 6.25 7.15 8.75 10.8 13  
 391 LU 1 .1 4  
 392 UC 3.81 18.19

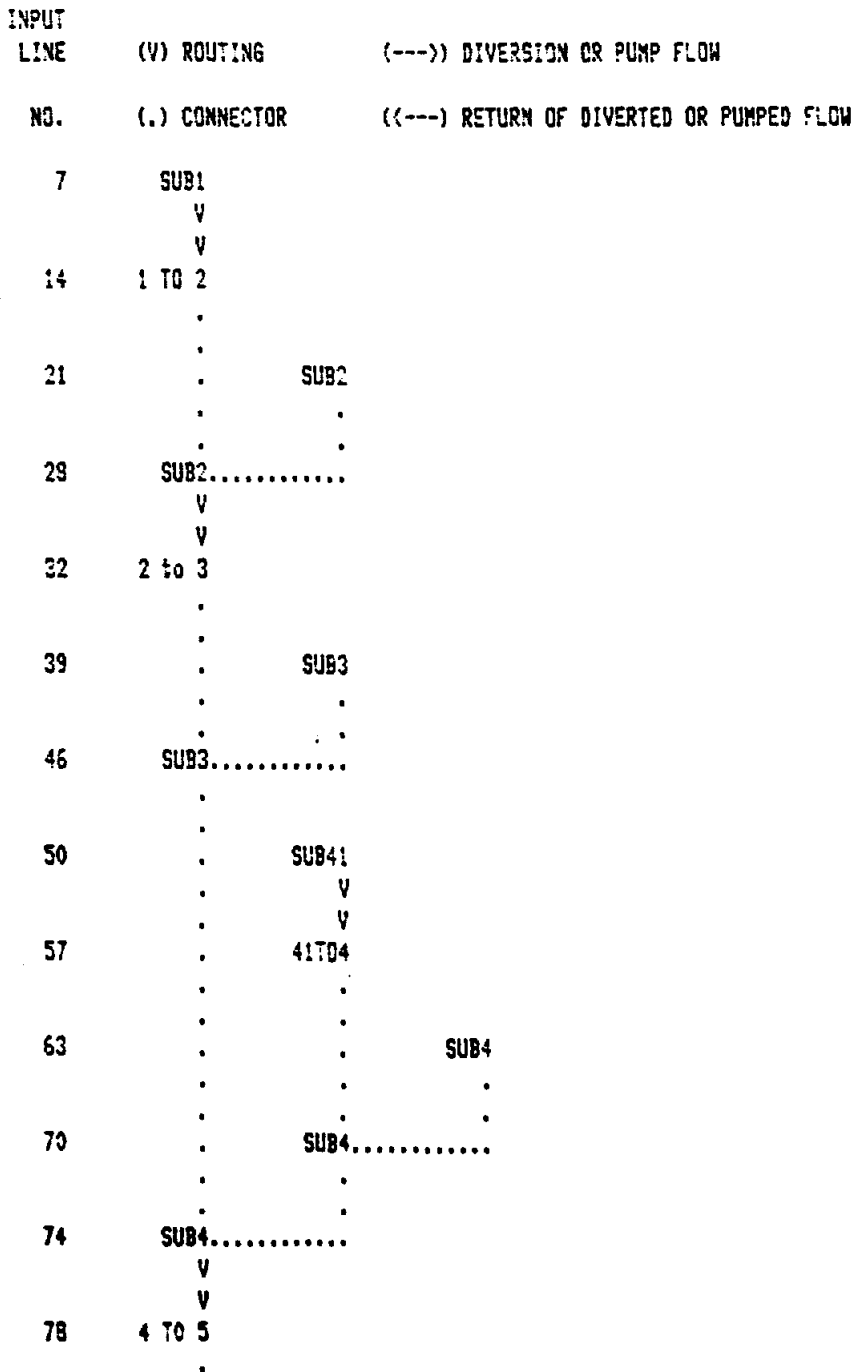
393 KK SUB14  
 394 KM COMBINE HYDROS AT 14  
 395 KO  
 396 HC 2

397 KK 14T015  
 398 KM ROUTE HYDROS FROM 14 TO 15  
 399 KO  
 400 RS 5 FLOW -1

LINE 10.....1.....2.....3.....4.....5.....5.....7.....8.....9.....10

404	KK	SUB15 CHOCOLATE BAYOU AT COUNTY RD 2004									
405	KM	RUNOFF FROM SUBAREA 15									
406	KO										
407	BA	12.72									
408	PH	:	0	.32	2.03	4.65	6.25	7.15	3.75	10.9	13
409	LU	1.	.1	:							
410	UC	3.9	13.25								
411	KK	SUB15									
412	KM	COMBINE HYDROS AT 15									
413	KO										
414	HC	2									
415	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK





32 SUB5.....  
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36 . SUB6  
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103 SUB6.....  
V  
V  
107 6 TO 7  
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114 . SUB7  
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121 SUB7.....  
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125 . SUB8  
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132 SUB9.....  
V  
V  
136 8 to 9  
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143 . SUB9  
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150 SUB9.....  
V  
V  
154 9 TO 10  
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161 . SUB10  
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168 SUB10.....  
V  
V  
172 10 TO 11  
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179 . SUB11  
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186 SUB11.....  
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190 . SUB1  
V  
V  
197 . 1 TO 2  
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204 . SUB2  
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211 . SUB2.....  
V

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221 . . . SUB3
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228 . SUB3.....
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231 . 3724
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239 . . SUB4
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245 . SUB4.....
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248 . 4705
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255 . . SUB5
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262 . SUB5.....
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265 . 5706
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272 . . SUB6
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279 . SUB6.....
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282 . 6707
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299 . . SUB7
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296 . SUB7.....
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299 . 7708
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306 . . SUB8
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313 . SUB8.....
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319 . -----> DIV
316 . SUB8
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322 . 8709
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329 . . SUB9
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336 . SUB9.....

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339 SUB11.....
      V
      V
343 117012
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350 . SUB12
      .
      .
357 SUB12.....
      V
      V
361 127013
      .
      .
363 . SUB13
      .
      .
375 SUB13.....
      V
      V
379 137014
      .
      .
385 . SUB14
      .
      .
393 SUB14.....
      V
      V
397 147015
      .
      .
404 . SUB15
      .
      .
411 SUB15.....

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

\*\*\*\*  
FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1, 1985  
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616  
\*\*\*\*

SNOWDEN ENGINEERING, INC.  
CHOCOLATE BAYOU WATERSHED, 100-YR. HYDROGRAPH FOR EXISTING CONDITION  
BRAZORIA COUNTY, C & R DISTRICT 3, MASTER DRAINAGE STUDY  
FILENAME : CHEX100

```

6 IO OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      BSCAL      0. HYDROGRAPH PLOT SCALE

```

```

IT HYDROGRAPH TIME DATA
      MNIN      15 MINUTES IN COMPUTATION INTERVAL
      IDATE      1 0 STARTING DATE
      ITIME      0000 STARTING TIME
      NQ         200 NUMBER OF HYDROGRAPH ORDINATES
      NDDATE     3 0 ENDING DATE
      NDTIME     0145 ENDING TIME

```

ENGLISH UNITS

\*\*\* \*\*

\*\*\*\*\*

```

*      *
7 KK  *      SUB1 *      CHOCOLATE BAYOU AT ALLELUITE TRAIL
*      *
*****

```

```

9 KD      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE

```

\*\*\* \*\*

\*\*\*\*\*

```

*      *
14 KK *      1 TO 2 *
*      *
*****

```

```

15 KD      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE

```

\*\*\* \*\*

\*\*\*\*\*

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*      *
21 KK *      SUB2 *      CHOCOLATE BAYOU AT RIFLE RANGE
*      *
*****

```

```

23 KD      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE

```

\*\*\* \*\*

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```

*      *
28 KK *      SUB2 *
*      *
*****

```

```

30 KD      OUTPUT CONTROL VARIABLES

```

QSCAL

0. HYDROGRAPH PLOT SCALE

-----

\*\*\*\*\*

32 KX

+ 2 to 3 +  
+ +  
\*\*\*\*\*

34 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

-----

\*\*\*\*\*

39 KX

+ SUB3 +  
+ +  
\*\*\*\*\*

CHCCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE WITH WEST FORK CHCCOLATE

41 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

-----

\*\*\*\*\*

46 KX

+ SUB3 +  
+ +  
\*\*\*\*\*

48 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

-----

\*\*\*\*\*

50 KX

+ SUB41 +  
+ +  
\*\*\*\*\*

WEST FORK CHCCOLATE BAYOU UPSTREAM FROM HWY 288

52 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL



\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

63 KK \* SUB4 \* WEST FORK CHOCOLATE BAYOU AT CONFLUENCE W/CHOCOLATE BAYOU  
\* \*  
\*\*\*\*\*

65 KC OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

70 KK \* SUB4 \*  
\* \*  
\*\*\*\*\*

72 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

74 KE \* SUB4 \*  
\* \*  
\*\*\*\*\*

76 KF OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

79 KH \* 4 TO 5 \*  
\* \*  
\*\*\*\*\*

80 KI OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
# #  
95 KK # SUB5 # CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE WITH UNNAMED TRIBUTARY  
# #  
\*\*\*\*\*

97 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
# #  
92 KK # SUB5 #  
# #  
\*\*\*\*\*

94 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
# #  
95 KK # SUB6 # UNNAMED TRIBUTARY  
# #  
\*\*\*\*\*

98 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
# #  
103 KK # SUB6 #  
# #  
\*\*\*\*\*

105 KC OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE



132 KK

\* \*  
\* SUB9 \*  
\* \*  
\*\*\*\*\*

134 KK

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*

136 KK

\*\*\*\*\*  
\* \*  
\* B to 9 \*  
\* \*  
\*\*\*\*\*

138 KK

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*

142 KK

\*\*\*\*\*  
\* \*  
\* SUS9 \* CHOCOLATE BAYOU AT FM 1462  
\* \*  
\*\*\*\*\*

145 KK

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*

150 KK

\*\*\*\*\*  
\* \*  
\* SUB9 \*  
\* \*  
\*\*\*\*\*

152 KK

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

156 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

151 KK            \*            \*  
                  \*        SUB10        \*        CHOCOLATE BAYOU AT HWY 35  
                  \*            \*  
                  \*\*\*\*\*

163 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

168 KK            \*            \*  
                  \*        SUB10        \*  
                  \*            \*  
                  \*\*\*\*\*

170 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

172 KK            \*            \*  
                  \*        10T011        \*  
                  \*            \*  
                  \*\*\*\*\*

174 KO            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLOT            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 5000. TO 10000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\*~

179 KK           \*           \*  
          \*    SUB11   \*    CHOCOLATE BAYOU UPSTREAM FROM DITCH C-1  
          \*           \*  
          \*\*\*\*\*

81 KQ            OUTPUT CONTROL VARIABLES  
                  IPRNT        5   PRINT CONTROL  
                  IPLOT        0   PLOT CONTROL  
                  BSCAL        0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

          \*\*\*\*\*  
          \*           \*  
186 KK       \*    SUB11   \*  
          \*           \*  
          \*\*\*\*\*

188 KQ            OUTPUT CONTROL VARIABLES  
                  IPRNT        5   PRINT CONTROL  
                  IPLOT        0   PLOT CONTROL  
                  BSCAL        0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

          \*\*\*\*\*  
          \*           \*  
190 KK       \*    SUB1   \*    DITCH C-1 AT COUNTY RD 1128  
          \*           \*  
          \*\*\*\*\*

192 KQ            OUTPUT CONTROL VARIABLES  
                  IPRNT        5   PRINT CONTROL  
                  IPLOT        0   PLOT CONTROL  
                  BSCAL        0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

          \*\*\*\*\*  
          \*           \*  
197 KK       \*    1702   \*  
          \*           \*  
          \*\*\*\*\*

199 KQ            OUTPUT CONTROL VARIABLES  
                  IPRNT        5   PRINT CONTROL  
                  IPLOT        0   PLOT CONTROL  
                  BSCAL        0.   HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2000. TO 5000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

```
*****
*           *
204 KK *     SUB2 *   DITCH 2-1 AT DIRTY RD.
*           *
*****
```

```
206 KQ      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
*           *
214 KX *     2T03 *
*           *
*****
```

```
216 KQ      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
*           *
221 KX *     SUB3 *   DITCH AT DIRTY RD
*           *
*****
```

```
223 KQ      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

```
*****
*           *
231 KX *     3T04 *
*           *
*****
```

```
233 KQ      OUTPUT CONTROL VARIABLES
          IPRNT      5 PRINT CONTROL
          IPLOT      0 PLOT CONTROL
          QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

238 KK + SUB4 + DITCH C-1 AT HERRING RD  
+ +  
\*\*\*\*\*

240 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLST 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
+ +  
248 XK + 470E +  
+ +  
\*\*\*\*\*

250 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLST 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2000. TO 3000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
+ +  
255 XK + SUB5 + DITCH C-1 AT COUNTY RD 1462  
+ +  
\*\*\*\*\*

257 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLST 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
+ +  
265 KK + 570E +  
+ +  
\*\*\*\*\*

267 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLST 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 1000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.



\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

272 KX \* SUBS \* DITCH C-1 AT HWY 35  
\* \*  
\*\*\*\*\*

274 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLST 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

282 KX \* 6T07 \*  
\* \*  
\*\*\*\*\*

284 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLST 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

289 KX \* SUB7 \* DITCH C-1 AT BRISCO CANAL  
\* \*  
\*\*\*\*\*

291 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLST 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

299 KX \* 7T08 \*  
\* \*  
\*\*\*\*\*

301 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLST 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* \*  
\*\*\*\*\*

308 KK + SUB8 + DITCH C-1 AT CONFLUENCE W/NEW BAYOU

309 KC OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL . 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* \*  
\*\*\*\*\*

315 KK + SUB8 +

319 KC OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* \*  
\*\*\*\*\*

322 KK + BT09 +

324 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* \*  
\*\*\*\*\*

329 XK + SUB9 + DITCH C-1 AT CONFLUENCE W/CHOCOLATE BAYOU

331 XO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

```
*****
+
339 KK + SUB11 + CHOCOLATE BAYOU AT DOWNSTREAM OF DITCH C-1
+
*****
```

```
341 KQ OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
+
343 KK + 117012 +
+
*****
```

```
345 KQ OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
+
350 KK + SUB12 + CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE W/CORNER BAYOU
+
*****
```

```
352 KQ OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

```
*****
+
357 KK + SUB12 +
+
*****
```

```
359 KQ OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

351 KX \* 12T013 \*  
\* \*  
\*\*\*\*\*

360 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
363 KX \* SUB13 \* CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE W/PLEASANT BAYOU  
\* \*  
\*\*\*\*\*

370 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
373 KX \* SUB13 \*  
\* \*  
\*\*\*\*\*

377 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
379 KX \* 13T014 \*  
\* \*  
\*\*\*\*\*

381 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 500. TO 10000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

```
*****
*
386 KK * SUB14 * CHOCOLATE BAYOU AT CHEMICAL PLANT
*
*****
```

```
388 KC OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\*\*\*

```
*****
*
393 KK * SUB14 *
*
*****
```

```
395 KC OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\*\*\*

```
*****
*
397 KK * 14TG15 *
*
*****
```

```
399 KD OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 2000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\*\*\*

```
*****
*
404 KK * SUB15 * CHOCOLATE BAYOU AT COUNTY RD 2004
*
*****
```

```
406 KC OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```









2 COMBINED AT	SUB2	708.	22.75	577.	507.	290.	2.12		
ROUTED TO	3703	666.	25.50	563.	504.	278.	2.12	40.80	25.50
HYDROGRAPH AT	SUB2	1538.	15.50	1395.	925.	447.	3.37		
2 COMBINED AT	SUB3	1992.	16.25	1878.	1318.	725.	5.49		
ROUTED TO	3704	1759.	23.00	1718.	1313.	721.	5.49	40.45	23.00
HYDROGRAPH AT	SUB4	1501.	15.75	1387.	975.	495.	3.73		
2 COMBINED AT	SUB4	2857.	21.00	2797.	2180.	1206.	9.22		
ROUTED TO	4705	2931.	20.00	2751.	2101.	1200.	9.22	36.37	20.00
HYDROGRAPH AT	SUB5	1139.	15.50	1042.	632.	345.	2.68		
2 COMBINED AT	SUB5	3936.	20.00	3488.	2645.	1545.	11.90		
ROUTED TO	5706	3542.	24.50	3357.	2525.	1540.	11.90	34.59	24.50
HYDROGRAPH AT	SUB6	358.	15.00	330.	203.	112.	.88		
2 COMBINED AT	SUB6	3744.	24.50	3539.	2778.	1652.	12.78		
ROUTED TO	6707	3172.	31.00	3116.	2683.	1639.	12.78	30.40	31.00
HYDROGRAPH AT	SUB7	1085.	15.00	1008.	639.	358.	2.64		
2 COMBINED AT	SUB7	3551.	30.25	3489.	3054.	1997.	15.42		
ROUTED TO	7708	3525.	32.00	3469.	3045.	1982.	15.42	27.07	32.00
HYDROGRAPH AT	SUB8	642.	15.75	618.	445.	263.	2.27		
2 COMBINED AT	SUB8	3830.	31.75	3773.	3359.	2245.	17.69		

+	HYDROGRAPH AT	SUB8	3447.	31.75	3295.	3023.	2020.	17.69		
	ROUTED TO	BT53	3402.	35.00	3356.	3002.	1955.	17.69		
									18.06	35.00
+	HYDROGRAPH AT	SUB9	311.	15.25	94.	524.	289.	2.29		
+	2 COMBINED AT	SUB9	3614.	34.25	3567.	3257.	2244.	19.98		
+	2 COMBINED AT	SUB11	17573.	47.50	17308.	14297.	8344.	133.68		
+	ROUTED TO	117012	17426.	49.75	16245.	12754.	7134.	133.68		
+									15.32	49.75
+	HYDROGRAPH AT	SUB12	1054.	17.75	1006.	727.	427.	3.69		
+	2 COMBINED AT	SUB12	17504.	49.75	16541.	13160.	7550.	137.37		
+	ROUTED TO	127013	16768.	49.75	15557.	12214.	6918.	137.37		
+									8.30	49.75
+	HYDROGRAPH AT	SUB13	2735.	16.75	2564.	1711.	967.	7.96		
+	2 COMBINED AT	SUB13	16889.	49.75	15866.	12991.	7885.	145.33		
+	ROUTED TO	137014	16406.	49.75	15531.	12619.	7577.	145.33		
+									4.33	49.75
+	HYDROGRAPH AT	SUB14	3072.	16.75	2969.	2211.	1324.	11.92		
+	2 COMBINED AT	SUB14	16685.	49.50	16189.	13881.	8901.	157.25		
+	ROUTED TO	147015	16636.	49.75	16126.	13760.	8787.	157.25		
+									3.49	49.75
+	HYDROGRAPH AT	SUB15	4201.	16.50	3960.	2675.	1523.	12.72		
+	2 COMBINED AT	SUB15	16865.	49.50	16635.	14992.	10310.	169.97		

**APPENDIX II (CONT.)**

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1	ID	SHOWDEN ENGINEERING, INC.									
2	ID	CHOCOLATE BAYOU WATERSHED, 25-YR. HYDROGRAPH FOR EXISTING CONDITION									
3	ID	BRAZORIA COUNTY, C & R DISTRICT 3, MASTER DRAINAGE STUDY									
4	ID	FILE NAME : CHEX25									
	*DIAGRAM										
5	IT	15			200						
6	IC	5	0								
7	KK	SUB1 CHOCOLATE BAYOU AT ALLEGUTE TRAIL									
8	KM	RUNOFF FROM SUBAREA 1									
9	KD										
10	BA	1.39									
11	PH	4	0	.79	1.72	3.85	4.95	5.55	6.9	8.3	10
12	LU	1.0	0.1	1.0	0	0					
13	UC	3.0	15.								
14	KK	1 TO 2									
15	KM	ROUTE FLOWS FROM SUBAREA 1 TO SUBAREA 2									
16	KD										
17	RS	2.9	FLOW	-1							
18	SV	0	33	82	387	703	951	0			
19	SR	0	500	1000	5000	10000	15000	0			
20	SE	40.3	48.1	49.3	51.84	53.42	54.52	0			
21	KK	SUB2 CHOCOLATE BAYOU AT RIFLE RANGE									
22	KM	RUNOFF FROM SUBAREA 2									
23	KD										
24	BA	5.92									
25	PH	4	0	.79	1.72	3.85	4.95	5.55	6.9	8.3	10
26	LU	1.0	0.1	1.2	0	0					
27	UC	3.42	19.5								
28	KK	SUB2									
29	KM	COMBINE HYDROS AT 2									
30	KD										
31	HC	2									
32	KK	2 to 3									
33	KM	ROUTE FLOWS FROM 2 TO 3									
34	KD										
35	RS	15.3	FLOW	-1							
36	SV	0	274	587	3591	6511	9069	0			
37	SR	0	500	1000	5000	10000	15000	0			
38	SE	28.2	34.77	36.64	39.82	41.45	42.6	0			

39 KK SUB3 CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE WITH WEST FORK CHOCOLATE  
 40 KM RUNOFF FROM SUBAREA 3  
 41 KO  
 42 BA 12.46  
 43 PH 4 0 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 44 LU 1.0 0.1 1.0 0 0  
 45 UC 6.04 17.31

HED-1 INPUT

PAGE 2

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

46 KK SUB2  
 47 KM COMBINE HYDRS AT 2  
 48 KO  
 49 HC 2

50 KK SUB41 WEST FORK CHOCOLATE BAYOU UPSTREAM FROM HWY 288  
 51 KM RUNOFF FROM SUBAREA 41  
 52 KO  
 53 BA 15.07  
 54 PH 4 0 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 55 LU 1.0 0.1 1.0 0 0  
 56 UC 4.97 22.8

57 KK 41 TO 4  
 58 KM ROUTE FLOW FROM 41 TO 4  
 59 RS 17.3 FLOW -1  
 60 SV 0 255 456 1385 2150  
 61 SQ 0 500 1000 2000 3000  
 62 SE 54 59.52 60.33 61.1 61.77

63 KK SUB4 WEST FORK CHOCOLATE BAYOU AT CONFLUENCE W/CHOCOLATE BAYOU  
 64 KM RUNOFF FROM SUBAREA 4  
 65 KO  
 66 BA 13.42  
 67 PH 4 0 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 68 LU 1.0 0.1 1.0 0 0  
 69 UC 7.44 26.31

70 KK SUB4  
 71 KM COMBINE HYDRS AT 4  
 72 KO  
 73 HC 2

74 KK SUB4  
 75 KM COMBINE HYDRS AT 4  
 76 KO  
 77 HC 2

78 KK 4 TO 5  
 79 KM ROUTE FLOWS FROM 4 TO 5  
 80 KO  
 81 RS 9.3 FLOW -1  
 82 SV 0 129 254 2028 3350 4424 0  
 83 SQ 0 500 1000 5000 10000 15000 0  
 84 SE 18.1 28.99 31.56 35.79 36.99 38.06 0

85 KK SUB5 CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE WITH UNNAMED TRIBUTARY  
 86 KM RUNOFF FROM SUBAREA 5  
 87 KO  
 88 BA 2.76  
 89 PH 4 0 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 90 LU 1.0 0.1 1.0 0 0  
 91 UC 4.84 17.54

LINE	ID	1	2	3	4	5	6	7	8	9	10
92	KK	SUB6									
93	KM	0	COMBINE HYDROS AT 6								
94	KD										
95	HC	2									
96	KK	SUB6 UNNAMED TRIBUTARY									
97	KM	RUNOFF FROM SUBAREA 6									
98	KD										
99	BA	7.47									
100	PH	4	0	.79	1.72	3.85	4.95	5.55	6.9	8.3	10
101	LU	1.0	0.1	1.0	0	0					
102	UC	4.74	24.96								
103	KK	SUB6									
104	KM	COMBINE HYDROS AT 6									
105	KD										
106	HC	2									
107	KK	6 TO 7									
108	KM	ROUTE FLOWS FROM 6 TO 7									
109	KD										
110	RS	3	FLOW	-1							
111	SV	0	46	71	578	1373	2017	0			
112	SB	0	500	1000	5000	10000	15000	0			
113	SE	14.0	26.18	28.0	33.16	35.12	36.69	0			
114	KK	SUB7 CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE WITH HAYES CREEK									
115	KM	RUNOFF FROM SUBAREA 7									
116	KD										
117	BA	.98									
118	PH	4	0	.79	1.72	3.85	4.95	5.55	6.9	8.3	10
119	LU	1.0	0.1	1.0	0	0					
120	UC	2.74	10.05								
121	KK	SUB7									
122	KM	COMBINE HYDROS AT 7									
123	KD										
124	HC	2									
125	KK	SUB8 HAYES CREEK									
126	KM	RUNOFF FROM SUBAREA 8									
127	KD										
128	BA	14.13									
129	PH	4	0	.79	1.72	3.85	4.95	5.55	6.9	8.3	10
130	LU	1.0	.1	1.	0	0					
131	UC	4.36	20.11								
132	KK	SUB8									
133	KM	COMBINE HYDROS AT 8									
134	KD										
135	HC	2									

HEC-1 INPUT

PAGE 4

LINE	ID	1	2	3	4	5	6	7	8	9	10
136	KK	8 to 9									
137	KM	ROUTE FLOWS FROM 8 TO 9									
138	KD										
139	RS	9.9	FLOW	-1							
140	SV	0	181	451	3283	6353	9439	0			

142 SE 11.2 20.6 28.4 30.92 32.42 33.4 0  
 143 KK SUB9 CHOCOLATE BAYOU AT RM 1462  
 144 KM RUNOFF FROM SUBAREA 9  
 145 KO  
 146 BA 14.4  
 147 PH 4 0 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 148 LU 1.0 0.1 1.0 0 0  
 149 UC 6.92 28.08

150 KK SUB9  
 151 KM COMBINE HYDROS AT 9  
 152 KO  
 153 HC 2

154 KK 9 TO 10  
 155 KM ROUTE FLOWS FROM 9 TO 10  
 156 KO  
 157 RS 18.8 FLOW -1  
 158 SV 0 357 617 8111 7013 10530 14184  
 159 SQ 0 500 1000 5000 10000 15000 20000  
 160 SE 1.11 7.66 11.26 19.74 23.24 25.14 26.48

161 KK SUB10 CHOCOLATE BAYOU AT HWY 35  
 162 KM RUNOFF FROM SUBAREA 10  
 163 KO  
 164 BA 14.2  
 165 PH 4 0 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 166 LU 1.0 0.1 2.0 0 0  
 167 UC 6.88 25.05

168 KK SUB10  
 169 KM COMBINE HYDROS AT 10  
 170 KO  
 171 HC 2

172 KK 10 TO 11  
 173 KM ROUTE FLOWS FROM 10 TO 11  
 174 KO  
 175 RS 10 FLOW -1  
 176 SV 0 112 278 1592 1952 4184 5376  
 177 SQ 0 500 1000 5000 10000 15000 20000  
 178 SE 1.11 3.53 6.56 15.71 18.81 20.4 21.57  
 HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

179 KK SUB11 CHOCOLATE BAYOU UPSTREAM FROM DITCH C-1  
 180 KM RUNOFF FROM SUBAREA 11  
 181 KO  
 182 BA 11.5  
 183 PH 4 0 .79 1.72 3.85 4.95 5.55 6.9 8.3 10  
 184 LU 1.0 0.1 1.0 0 0  
 185 UC 8.0 42.13

186 KK SUB11  
 187 KM COMBINE HYDROS AT 11  
 188 KO  
 189 HC 2  
 \* \*\*\*\*\* DITCH C-1 \*\*\*\*\*

190 KK SUB1 DITCH C-1 AT COUNTY RD 1128  
 191 KM RUNOFF FROM SUBAREA 1  
 192 KO



247	EO	2
248	KK	4T05
249	KM	ROUTE FLOWS FROM 4 TO 5
250	KD	
251	RS	3.6 FLOW -1
252	SV	0 58 117 732 755 1034 1046
253	SQ	500 1000 2000 3000 4000 5000 0
254	SE	22.5 22.12 25.42 36.3 36.37 35.44 36.5 0

255	KK	SUB5 DITCH C-1 AT COUNTY RD 1462
256	KM	RUNOFF FROM SUBAREA 5
257	KD	
258	BA	2.33
259	PH	4 .79 1.72 3.35 4.95 5.55 6.9 8.3 10
260	LU	1 .1 4.8
261	UC	3.1 10.09

262	KK	SUB5
263	KM	COMBINE HYDRS AT 5
264	HC	2

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

265	KK	5T06
266	KM	ROUTE FLOWS FROM 5 TO 6
267	KD	
268	RS	6.5 FLOW -1
269	SV	0 30 50 305 630 850 938
270	SQ	500 1000 2000 3000 4000 5000 0
271	SE	18.1 27.45 30.79 33.9 34.25 34.72 35.2 0

272	KK	SUB6 DITCH C-1 AT HWY 35
273	KM	RUNOFF FROM SUBAREA 6
274	KD	
275	BA	.88
276	PH	4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10
277	LU	1 .1 1
278	UC	2.47 10.75

279	KK	SUB6
280	KM	COMBINE HYDRS AT 6
281	HC	2

282	KK	6T07
283	KM	ROUTE FLOWS FROM 6 TO 7
284	KD	
285	RS	2.2 FLOW -1
286	SV	0 62 103 484 1032 1432 1693
287	SQ	500 1000 2000 3000 4000 5000 0
288	SE	13.5 22.01 25.25 29.19 30.31 30.86 31.28 0

289	KK	SUB7 DITCH C-1 AT BRISCO CANAL
290	KM	RUNOFF FROM SUBAREA 7
291	KD	
292	BA	2.54
293	PH	4 .79 1.72 3.85 4.95 5.55 6.9 8.3 10
294	LU	.8 .08 13
295	UC	2.4 11.08

296	KK	SUB7
297	KM	COMBINE HYDRS AT 7
298	HC	2



299	KK	7738									
300	KM		ROUTE FLOWS FROM 7 TO 8								
301	KO										
302	RS	3.0	FLOW	-1							
303	SV	0	43	75	133	336	492	629			
304	SE		500	1000	2000	3000	4000	5000	0		
305	SE	5.3	13.34	22.51	25.3	25.38	27.24	27.41	0		
306	KK		SUB8 DITCH C-1 AT CONFLUENCE W/NEW BAYOU								
307	KM		RUNOFF FROM SUBAREA 8								
308	KO										
309	BA	2.27									
310	PH	4		.79	1.72	3.85	4.95	5.55	6.9	8.3	10
311	LU	1	.1	1							

HEC-1 INPUT

PAGE 8

LINE	ID	1	2	3	4	5	6	7	8	9	10	
312	UC	2.55	15.57									
313	KK		SUB9									
314	KM		COMBINE HYDROS AT 8									
315	HC		2									
316	KK		SUB9									
317	KM		SUBTRACT FLOWS WHICH GO TO NEW BAYOU									
318	KO											
319	DT	319										
320	DI	0	1000	2000	3000	4000						
321	DQ	0	100	200	300	400						
322	KK	3709										
323	KM		ROUTE FLOWS FROM 8 TO 9									
324	KO											
325	RS	4.4	FLOW	-1								
326	SV	0	75	123	301	729	996	1202				
327	SE		500	1000	2000	3000	4000	5000	0			
328	SE	-7	7.69	10.78	14.89	17.33	19.15	20.45	0			
329	KK		SUB9 DITCH C-1 AT CONFLUENCE W/CHOCOLATE BAYOU									
330	KM		RUNOFF FROM SUBAREA 9									
331	KO											
332	BA	2.29										
333	PH	4		.79	1.72	3.85	4.95	5.55	6.9	8.3	10	
334	LU	1	.1	1								
335	UC	2.69	10.98									
336	KK		SUB9									
337	KM		COMBINE HYDROS AT 9									
338	HC		2									
	*		***** CHOCOLATE BAYOU AT DOWNSTREAM OF DITCH C-1 *****									
339	KK		SUB11 CHOCOLATE BAYOU AT DOWNSTREAM OF DITCH C-1									
340	KM		COMBINE HYDROS AT 11									
341	KO											
342	HC		2									
343	KK	117012										
344	KM		ROUTE FLOWS FROM 11 TO 12									
345	KO											
346	RS	9	FLOW	-1								
347	SV	0	52	150	987	2788	4334	5656				
348	SE		500	1000	5000	10000	15000	20000				
349	SE	0	1.08	2.7	10.05	13.31	14.82	15.87				
350	KK		SUB12 CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE W/CHOCOLATE BAYOU									

```

351 KM      RUNOFF FROM SUBAREA 12
352 KO
353 BA      3.59
354 PH      4          .79      1.72      3.85      4.95      5.55      6.9      8.3      10
355 LU      1          .1      2.9
356 UC      5.3      16.15

```

HED-1 INPUT

LINE 12.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

```

357 KK      SUB12
358 KM      COMBINE HYDROS AT 12
359 KO
360 HC      2

```

```

361 KK      12T013
362 KM      ROUTE FLOWS FROM 12 TO 13
363 KO
364 RS      5.2      FLOW      -1
365 SV      0          84          112          471          1152          2173          3255
366 SQ      0          500          1000          5000          10000          15000          20000
367 SE      0          2.12          .28          2.04          5.07          7.6          9.57

```

```

368 KK      SUB13 CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE W/PLEASANT BAYOU
369 KM      RUNOFF FROM SUBAREA 13
370 KO
371 BA      7.96
372 PH      4          0          .79      1.72      3.85      4.95      5.55      6.9      8.3      10
373 LU      1.0          0.1          1
374 UC      4.43      12.7

```

```

375 KK      SUB13
376 KM      COMBINE HYDROS AT 13
377 KO
378 HC      2

```

```

379 KK      13T014
380 KM      ROUTE HYDROS FROM 13 TO 14
381 KO
382 RS      7          FLOW      -1
383 SV      0          161          176          306          624          1082          1648
384 SQ      0          500          1000          5000          10000          15000          20000
385 SE      0          0.1          0.21          0.72          2.12          3.87          5.5

```

```

386 KK      SUB14 CHOCOLATE BAYOU AT CHEMICAL PLANT
387 KM      RUNOFF FROM SUBAREA 14
388 KO
389 BA      11.92
390 PH      4          0          .79      1.72      3.85      4.95      5.55      6.9      8.3      10
391 LU      1.          .1          4
392 UC      3.81      18.18

```

```

393 KK      SUB14
394 KM      COMBINE HYDROS AT 14
395 KO
396 HC      2

```

```

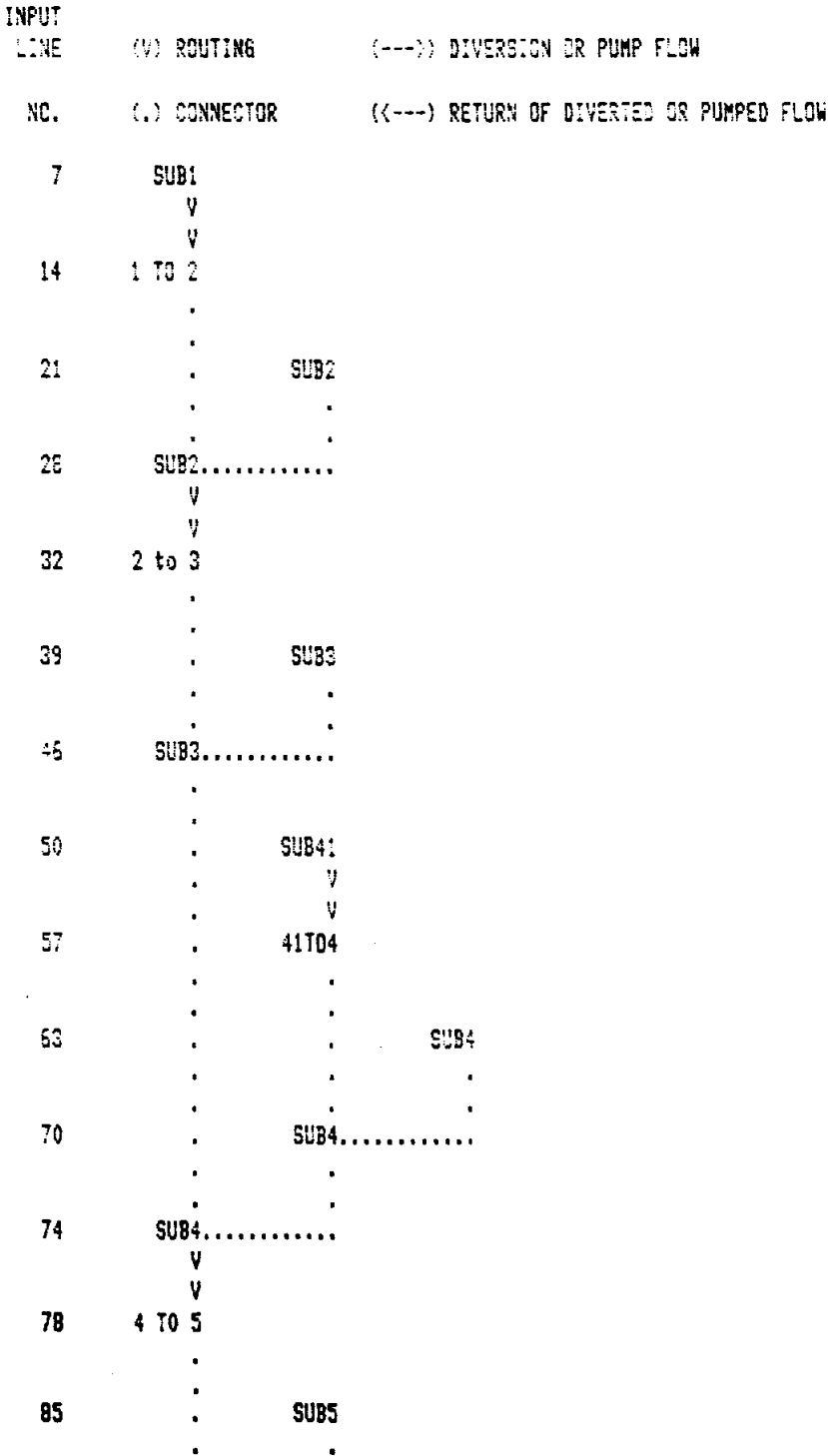
397 KK      14T015
398 KM      ROUTE HYDROS FROM 14 TO 15
399 KO
400 RS      5          FLOW      -1
401 SV      0          13          25          69          204          398          613
402 SQ      0          500          1000          5000          10000          15000          20000
403 SE      0          0.1          0.2          0.5          1.5          3.0          4.5

```

LINE 10.....11.....12.....13.....14.....15.....16.....17.....18.....19.....20

404	KK	SUB15 CHOCCLATE BAYOU AT COUNTY RD 2004									
405	KM	RUNOFF FROM SUBAREA 15									
406	KO										
407	SA	12.72									
408	SB	4	0	.79	1.72	3.85	4.95	5.55	6.9	9.3	10
409	SC	1.	.1	1							
410	SD	3.9	13.26								
411	KK	SUB15									
412	KM	COMBINE HYDROS AT 15									
413	KO										
414	SC	2									
415	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK



92	SUB5.....	
	.	
95	.	SUB6
	.	
100	SUB6.....	
	V	
	V	
107	8 TO 7	
	.	
114	.	SUB7
	.	
121	SUB7.....	
	.	
125	.	SUB8
	.	
132	SUB8.....	
	V	
	V	
136	8 to 9	
	.	
143	.	SUB9
	.	
150	SUB9.....	
	V	
	V	
154	9 TO 10	
	.	
161	.	SUB10
	.	
168	SUB10.....	
	V	
	V	
172	10 TO 11	
	.	
179	.	SUB11
	.	
186	SUB11.....	
	.	
190	.	SUB1
	.	V
	.	V
197	.	1702
	.	
204	.	SUB2
	.	.
211	.	SUB2.....
	.	V
	.	V
214	.	2T03
	.	.

221 . . . SUB3

228 . . . SUB3.....

V

V

231 . . . 3T04

238 . . . SUB4

245 . . . SUB4.....

V

V

248 . . . 4T05

255 . . . SUB5

262 . . . SUB5.....

V

V

265 . . . 5T06

272 . . . SUB6

279 . . . SUB6.....

V

V

282 . . . 6T07

289 . . . SUB7

296 . . . SUB7.....

V

V

299 . . . 7T08

306 . . . SUB8

313 . . . SUB8.....

319 . . . -----> DIV

316 . . . SUB8

V

V

322 . . . 8T09

329 . . . SUB9

336 . . . SUB9.....

339 . . . SUB11.....

```

342      117012
      .
      .
350      .      SUB12
      .
      .
357      SUB12.....
      .
      .
361      127013
      .
      .
368      .      SUB13
      .
      .
375      SUB13.....
      .
      .
379      137014
      .
      .
385      .      SUB14
      .
      .
393      SUB14.....
      .
      .
397      147015
      .
      .
404      .      SUB15
      .
      .
411      SUB15.....

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1

\*\*\*\*

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1, 1985  
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

\*\*\*\*

SNOWDEN ENGINEERING, INC.  
 CHOCOLATE BAYOU WATERSHED, 25-YR. HYDROGRAPH FOR EXISTING CONDITION  
 BRAZORIA COUNTY, C & R DISTRICT 3, MASTER DRAINAGE STUDY  
 FILE NAME : CHEX25

6 IO      OUTPUT CONTROL VARIABLES  
           IPRNT           5 PRINT CONTROL  
           IPLOT           0 PLOT CONTROL  
           QSCAL           0. HYDROGRAPH PLOT SCALE

IT        HYDROGRAPH TIME DATA  
           NMIN           15 MINUTES IN COMPUTATION INTERVAL  
           IDATE          1 0 STARTING DATE  
           ITIME          0000 STARTING TIME  
           NQ             200 NUMBER OF HYDROGRAPH ORDINATES  
           NDDATE         3 0 ENDING DATE  
           NDTIME         0145 ENDING TIME

COMPUTATION INTERVAL    .25 HOURS  
 TOTAL TIME BASE       49.75 HOURS

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

7 KK + SUB1 \* CHOCOLATE BAYOU AT ALLELUITE TRAIL

9 KO OUTPUT CONTROL VARIABLES
IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

14 KK \* 1 TO 2 \*

16 KO OUTPUT CONTROL VARIABLES
IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

21 KK \* SUB2 \* CHOCOLATE BAYOU AT RIFLE RANGE

23 KO OUTPUT CONTROL VARIABLES
IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

28 KK \* SUB2 \*

30 KO OUTPUT CONTROL VARIABLES
IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*\*

\*\*\*\*\*  
+ +  
32 KK + 2 50 3 +  
+ +  
\*\*\*\*\*

34 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*\*

\*\*\*\*\*  
+ +  
39 KK + SUB3 + CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE WITH WEST FORK CHOCOLATE  
+ +  
\*\*\*\*\*

41 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*\*

\*\*\*\*\*  
+ +  
46 KK + SUB3 +  
+ +  
\*\*\*\*\*

48 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*\*

\*\*\*\*\*  
+ +  
50 KK + SUB41 + WEST FORK CHOCOLATE BAYOU UPSTREAM FROM HWY 288  
+ +  
\*\*\*\*\*

52 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE



\*\*\* \*\*

\*\*\*\*\*  
\* \*  
\* SUB\* \*  
\* \*  
\*\*\*\*\*

53 KK WEST FORK CHOCOLATE BAYOU AT CONFLUENCE W/CHOCOLATE BAYOU

65 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*  
\* \*  
\* SUB\* \*  
\* \*  
\*\*\*\*\*

70 KK WEST FORK CHOCOLATE BAYOU AT CONFLUENCE W/CHOCOLATE BAYOU

72 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*  
\* \*  
\* SUB\* \*  
\* \*  
\*\*\*\*\*

74 KK WEST FORK CHOCOLATE BAYOU AT CONFLUENCE W/CHOCOLATE BAYOU

76 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*  
\* \*  
\* 4 TO 5 \*  
\* \*  
\*\*\*\*\*

78 KK WEST FORK CHOCOLATE BAYOU AT CONFLUENCE W/CHOCOLATE BAYOU

80 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

```
*****
*           *
95 KK      *   SUB5   *   CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE WITH UNNAMED TRIBUTARY
*           *
*****
```

```
37 KQ      OUTPUT CONTROL VARIABLES
           IPRNT      5 PRINT CONTROL
           IPLOT      0 PLOT CONTROL
           QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
*           *
92 KK      *   SUB5   *
*           *
*****
```

```
94 KQ      OUTPUT CONTROL VARIABLES
           IPRNT      5 PRINT CONTROL
           IPLOT      0 PLOT CONTROL
           QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
*           *
96 KK      *   SUB5   *   UNNAMED TRIBUTARY
*           *
*****
```

```
98 KQ      OUTPUT CONTROL VARIABLES
           IPRNT      5 PRINT CONTROL
           IPLOT      0 PLOT CONTROL
           QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

```
*****
*           *
103 KK     *   SUB6   *
*           *
*****
```

```
105 KQ     OUTPUT CONTROL VARIABLES
           IPRNT      5 PRINT CONTROL
           IPLOT      0 PLOT CONTROL
           QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*\*\*\*\*

\*\*\*\*\*

127 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCALE 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*  
\* \*  
\* \*  
\* \*  
\*\*\*\*\*

125 KK SUBB HAYES CREEK

\*\*\*\*\*

128 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCALE 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*  
\* \*  
\* \*  
\* \*  
\*\*\*\*\*

121 KK SUBB

\*\*\*\*\*

116 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCALE 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*  
\* \*  
\* \*  
\* \*  
\*\*\*\*\*

114 KK SUBB CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE WITH HAYES CREEK

\*\*\*\*\*

109 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCALE 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*  
\* \*  
\* \*  
\* \*  
\*\*\*\*\*

107 KK 5 10 7

\*\*\*\*\*

134 KQ            OUTPUT CONTROL VARIABLES  
          IPRNT            5   PRINT CONTROL  
          IPLOT            0   PLOT CONTROL  
          BSCAL            0.   HYDROGRAPH PLOT SCALE

\*\*\*\*\*

\*\*\*\*\*  
\*            \*  
136 KK   \*    3 50 9   \*  
\*            \*  
\*\*\*\*\*

138 KQ            OUTPUT CONTROL VARIABLES  
          IPRNT            5   PRINT CONTROL  
          IPLOT            0   PLOT CONTROL  
          BSCAL            0.   HYDROGRAPH PLOT SCALE

\*\*\*\*\*

\*\*\*\*\*  
\*            \*  
140 KK   \*    SUB9   \*        CHOCCLATE BAYOU AT FM 1462  
\*            \*  
\*\*\*\*\*

145 KQ            OUTPUT CONTROL VARIABLES  
          IPRNT            5   PRINT CONTROL  
          IPLOT            0   PLOT CONTROL  
          BSCAL            0.   HYDROGRAPH PLOT SCALE

\*\*\*\*\*

\*\*\*\*\*  
\*            \*  
150 KK   \*    SUB9   \*  
\*            \*  
\*\*\*\*\*

152 KQ            OUTPUT CONTROL VARIABLES  
          IPRNT            5   PRINT CONTROL  
          IPLOT            0   PLOT CONTROL  
          BSCAL            0.   HYDROGRAPH PLOT SCALE

\*\*\*\*\*

\*\*\*\*\*  
\*            \*  
154 KK   \*    9 T010   \*  
\*            \*  
\*\*\*\*\*

156 KQ            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLST            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
161 KK    \*    SUB10   \*    CHOCOLATE BAYOU AT HWY 35  
\*            \*  
\*\*\*\*\*

163 KQ            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLST            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
168 KK    \*    SUB10   \*  
\*            \*  
\*\*\*\*\*

170 KQ            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLST            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
172 KK    \*    10TD11   \*  
\*            \*  
\*\*\*\*\*

174 KQ            OUTPUT CONTROL VARIABLES  
                  IPRNT            5 PRINT CONTROL  
                  IPLST            0 PLOT CONTROL  
                  QSCAL            0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 5000. TO 10000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*

\* \*  
\*\*\*\*\*

181 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5    PRINT CONTROL  
          IPLOT            0    PLOT CONTROL  
          BSCAL            0.    HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
185 KX    \*    SUB11    \*  
\* \*  
\*\*\*\*\*

188 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5    PRINT CONTROL  
          IPLOT            0    PLOT CONTROL  
          BSCAL            0.    HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
190 KX    \*    SUB1    \*    DITCH C-1 AT COUNTY RD 1128  
\* \*  
\*\*\*\*\*

192 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5    PRINT CONTROL  
          IPLOT            0    PLOT CONTROL  
          BSCAL            0.    HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \*  
197 KX    \*    1T02    \*  
\* \*  
\*\*\*\*\*

199 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5    PRINT CONTROL  
          IPLOT            0    PLOT CONTROL  
          BSCAL            0.    HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 2000. TO 5000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\*~

```
* *
204 KK * SUB3 * DITCH 2-1 AT X18.8.0.
* *
*****
```

```
206 KQ OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\*

```
*****
* *
214 KK * SUB3 *
* *
*****
```

```
216 KQ OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\*

```
*****
* *
221 KK * SUB3 * DITCH AT DIRTY RD
* *
*****
```

```
223 KQ OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\*

```
*****
* *
231 KK * SUB3 *
* *
*****
```

```
233 KQ OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\*

```
*****
* *
235 KK * SUB3 *
* *
*****
```

\*  
\*\*\*\*\*

249 K0

OUTPUT CONTROL VARIABLES

IPRNT        5   PRINT CONTROL  
IPLOT        0   PLOT CONTROL  
QSCAL        0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

249 KX

\*        \*  
\*        \*  
\*        \*  
\*\*\*\*\*

250 K0

OUTPUT CONTROL VARIABLES

IPRNT        5   PRINT CONTROL  
IPLOT        0   PLOT CONTROL  
QSCAL        0.   HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        2000. TO        3000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

255 KX

\*        \*  
\*        \*        DITCH C-1 AT COUNTY RD 1452  
\*        \*  
\*\*\*\*\*

257 K0

OUTPUT CONTROL VARIABLES

IPRNT        5   PRINT CONTROL  
IPLOT        0   PLOT CONTROL  
QSCAL        0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*

265 KX

\*        \*  
\*        \*  
\*        \*  
\*\*\*\*\*

267 K0

OUTPUT CONTROL VARIABLES

IPRNT        5   PRINT CONTROL  
IPLOT        0   PLOT CONTROL  
QSCAL        0.   HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO        1000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)



\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* \*  
\*\*\*\*\*

272 KK \* SUB6 \* DITCH C-1 AT HWY 35

274 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* \*  
\*\*\*\*\*

282 KK \* 6T97 \*

284 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* \*  
\*\*\*\*\*

286 KK \* SUB7 \* DITCH C-1 AT BRISCO CANAL

291 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
\* \*  
\*\*\*\*\*

299 KK \* 7T08 \*

301 KO OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

```
*****
*
306 KK * SUB8 * DITCH C-1 AT CONFLUENCE W/NEW BAYOU
*
*****
```

```
308 KD OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
*
315 KK * SUB9 *
*
*****
```

```
318 KD OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\* \*\*

```
*****
*
322 KK * BT09 *
*
*****
```

```
324 KD OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

```
*****
*
329 KK * SUB9 * DITCH C-1 AT CONFLUENCE W/CHOCOLATE BAYOU
*
*****
```

```
331 KD OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      QSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\* \*\* \*\* \*\*~

\* \*  
339 KK \* SUB11 \* CHOCOLATE BAYOU AT DOWNSTREAM OF DITCH C-1  
\* \*  
\*\*\*\*\*

341 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
343 KK \* 117B12 \*  
\* \*  
\*\*\*\*\*

345 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
350 KK \* SUB12 \* CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE W/CORNER BAYOU  
\* \*  
\*\*\*\*\*

352 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*\*

\*\*\*\*\*  
\* \*  
357 KK \* SUB12 \*  
\* \*  
\*\*\*\*\*

359 KQ OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*\*

\*\*\*\*\*  
\* \*

\*  
\*\*\*\*\*

368 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5   PRINT CONTROL  
          IPLOT            0   PLOT CONTROL  
          QSCAL            0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\*            \*  
\*\*\*\*\*

368 KK            \*    SUB13    \*            CHOCOLATE BAYOU UPSTREAM FROM THE CONFLUENCE W/PLEASANT BAYOU

370 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5   PRINT CONTROL  
          IPLOT            0   PLOT CONTROL  
          QSCAL            0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
\*\*\*\*\*

375 KK            \*    SUB13    \*

377 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5   PRINT CONTROL  
          IPLOT            0   PLOT CONTROL  
          QSCAL            0.   HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\*            \*  
\*\*\*\*\*

379 KK            \*    13TD14    \*

381 K0            OUTPUT CONTROL VARIABLES  
          IPRNT            5   PRINT CONTROL  
          IPLOT            0   PLOT CONTROL  
          QSCAL            0.   HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN    500. TO    10000.  
                  THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
                  THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\*~

386 KK \* SUB14 \* CHOCOLATE BAYOU AT CHEMICAL PLANT

\*\*\*\*\*

388 KC OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

392 KK \* SUB14 \*

\*\*\*\*\*

395 KC OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

397 KK \* 147015 \*

\*\*\*\*\*

399 KC OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 20000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

404 KK \* SUB15 \* CHOCOLATE BAYOU AT COUNTY RD 2004

\*\*\*\*\*

406 KC OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*

411 KK

\*\*\*\*\*  
 \* SUB1 \*  
 \*\*\*\*\*

410 KO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 ZSCALE 0. HYDROGRAPH PLOT SCALE

RUNOFF SUMMARY  
 FLOW IN CUBIC FEET PER SECOND  
 TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SUB1	321.	15.75	304.	207.	113.	1.39		
ROUTED TO	1 TO 2	318.	17.00	301.	206.	113.	1.39	45.48	17.00
HYDROGRAPH AT	SUB2	1084.	15.50	1042.	773.	463.	5.92		
2 COMBINED AT	SUB2	1401.	15.75	1343.	979.	581.	7.31		
ROUTED TO	2 to 3	1276.	27.50	1235.	958.	540.	7.31	36.95	27.50
HYDROGRAPH AT	SUB3	2446.	18.25	2327.	1694.	997.	12.45		
2 COMBINED AT	SUB3	3051.	25.50	2984.	2525.	1537.	19.77		
HYDROGRAPH AT	SUB41	1722.	18.75	1692.	1418.	904.	15.07		
ROUTED TO	41 TO 4	1532.	32.00	1510.	1400.	821.	15.07	50.82	32.00
HYDROGRAPH AT	SUB4	1833.	20.00	1780.	1435.	886.	13.42		
2 COMBINED AT	SUB4	2995.	29.50	2962.	2716.	1708.	28.49		
2 COMBINED AT	SUB4	5937.	26.50	5864.	5189.	3244.	48.25		
ROUTED TO	4 TO 5	5909.	29.75	5846.	5129.	2990.	48.25	36.01	29.75
HYDROGRAPH AT	SUB5	551.	17.25	525.	379.	223.	2.76		

+	2 COMBINED AT									
	SUB5	6232.	29.25	6175.	5396.	3213.	51.32			
+	HYDROGRAPH AT									
	SUB6	1096.	17.75	1066.	844.	522.	7.47			
+	2 COMBINED AT									
	SUB6	7027.	22.50	6987.	5979.	3735.	53.49			
+	ROUTED TO									
	6 TO 7	7013.	30.00	6950.	6059.	5012.	53.49	33.95	30.00	
+	HYDROGRAPH AT									
	SUB7	308.	15.25	280.	166.	90.	.98			
+	2 COMBINED AT									
	SUB7	7109.	29.75	7057.	6132.	3762.	59.47			
+	HYDROGRAPH AT									
	SUB8	2452.	17.75	2359.	1776.	1067.	14.13			
+	2 COMBINED AT									
	SUB8	8767.	27.50	8662.	7477.	4769.	73.60			
+	ROUTED TO									
	8 to 9	8512.	36.50	8419.	7238.	5900.	73.60	31.97	36.50	
+	HYDROGRAPH AT									
	SUB9	1854.	19.75	1815.	1481.	922.	14.40			
+	2 COMBINED AT									
	SUB9	9659.	36.00	9556.	8391.	4923.	88.00			
+	ROUTED TO									
	9 TO 10	9486.	45.75	9392.	8073.	5488.	88.00	22.88	45.75	
+	HYDROGRAPH AT									
	SUB10	1965.	19.50	1909.	1534.	949.	14.20			
+	2 COMBINED AT									
	SUB10	10283.	45.00	10174.	7986.	4435.	102.20			
+	ROUTED TO									
	10 TO 11	10192.	49.75	10064.	7546.	3956.	102.20	18.87	49.75	
+	HYDROGRAPH AT									
	SUB11	1049.	21.25	1034.	901.	576.	11.50			
+	2 COMBINED AT									
	SUB11	10660.	43.75	10635.	8303.	4532.	113.70			
+	HYDROGRAPH AT									
	SUB1	396.	14.00	346.	180.	94.	1.00			
+	ROUTED TO									
	1 TO 2	318.	24.00	298.	177.	92.	1.00	48.14	24.00	
+	HYDROGRAPH AT									
	SUB2	433.	14.00	385.	209.	110.	1.12			

		3090	521.	22.75	497.	570.	202.	2.12		
	ROUTED TO									
		3700	500.	26.00	492.	358.	201.	2.12	39.90	26.00
	HYDROGRAPH AT									
		3090	1163.	15.50	1047.	606.	324.	3.07		
	2 COMBINED AT									
		3090	1521.	15.25	1412.	354.	325.	3.49		
	ROUTED TO									
		3704	1344.	22.25	1313.	350.	322.	3.49	39.93	22.25
	HYDROGRAPH AT									
		3094	1100.	15.75	1039.	641.	352.	3.73		
	2 COMBINED AT									
		3094	2104.	20.00	2169.	1593.	374.	9.22		
	ROUTED TO									
		4705	1952.	27.00	1943.	1580.	363.	3.22	36.27	27.00
	HYDROGRAPH AT									
		3095	359.	15.50	778.	480.	248.	2.58		
	2 COMBINED AT									
		3095	2379.	24.00	2342.	2010.	1117.	11.90		
	ROUTED TO									
		5706	2345.	28.75	2317.	1992.	1114.	11.90	34.05	28.75
	HYDROGRAPH AT									
		3096	269.	15.00	246.	147.	30.	.88		
	2 COMBINED AT									
		3096	2445.	28.25	2415.	2110.	1194.	12.78		
	ROUTED TO									
		6707	2319.	34.25	2302.	2034.	1156.	12.78	29.55	34.25
	HYDROGRAPH AT									
		3097	823.	15.00	750.	473.	262.	2.64		
	2 COMBINED AT									
		3097	2536.	32.00	2524.	2352.	1449.	15.42		
	ROUTED TO									
		7708	2528.	34.50	2518.	2346.	1441.	15.42	25.51	34.50
	HYDROGRAPH AT									
		3098	480.	15.75	458.	323.	189.	2.27		
	2 COMBINED AT									
		3098	2725.	32.50	2720.	2596.	1630.	17.69		
	DIVERSION TO									
		DIV	272.	32.50	272.	260.	163.	17.69		



+		3039	2452.	32.50	2448.	2037.	1467.	17.59		
	ROUTED TO									
+		9739	2441.	37.00	2434.	2214.	1450.	17.59	15.37	37.00
-										
	HYDROGRAPH AT									
+		8089	584.	15.25	527.	386.	287.	2.29		
	2 COMBINED AT									
+		8039	2582.	32.00	2578.	2542.	1558.	19.98		
	2 COMBINED AT									
+		SUB11	13042.	43.50	12778.	10556.	5190.	133.68		
	ROUTED TO									
+		117012	12908.	47.25	12668.	9535.	5089.	133.68	14.19	47.25
+										
	HYDROGRAPH AT									
+		SUB12	787.	17.75	744.	528.	307.	3.59		
	2 COMBINED AT									
+		SUB12	13048.	47.25	12810.	9825.	5696.	137.37		
	ROUTED TO									
+		127013	12355.	49.50	12393.	9243.	5276.	127.37	6.57	49.50
+										
	HYDROGRAPH AT									
+		SUB13	2049.	16.75	1901.	1240.	694.	7.96		
	2 COMBINED AT									
+		SUB13	13102.	49.00	12616.	9795.	5970.	145.33		
	ROUTED TO									
+		137014	13068.	49.75	12326.	9552.	5749.	145.33	3.19	49.75
+										
	HYDROGRAPH AT									
+		SUB14	2293.	16.75	2197.	1605.	953.	11.92		
	2 COMBINED AT									
+		SUB14	13347.	49.25	12804.	10457.	6702.	157.25		
	ROUTED TO									
+		147015	13334.	49.50	12591.	10372.	6521.	157.25	2.50	49.50
+										
	HYDROGRAPH AT									
+		SUB15	3143.	16.25	2936.	1938.	1092.	12.72		
	2 COMBINED AT									
+		SUB15	13559.	49.25	13058.	11247.	7713.	169.97		

\*\*\* NORMAL END OF HEC-1 \*\*\*

APPENDIX III  
 HALLS BAYOU

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 2

HEC-1 INPUT

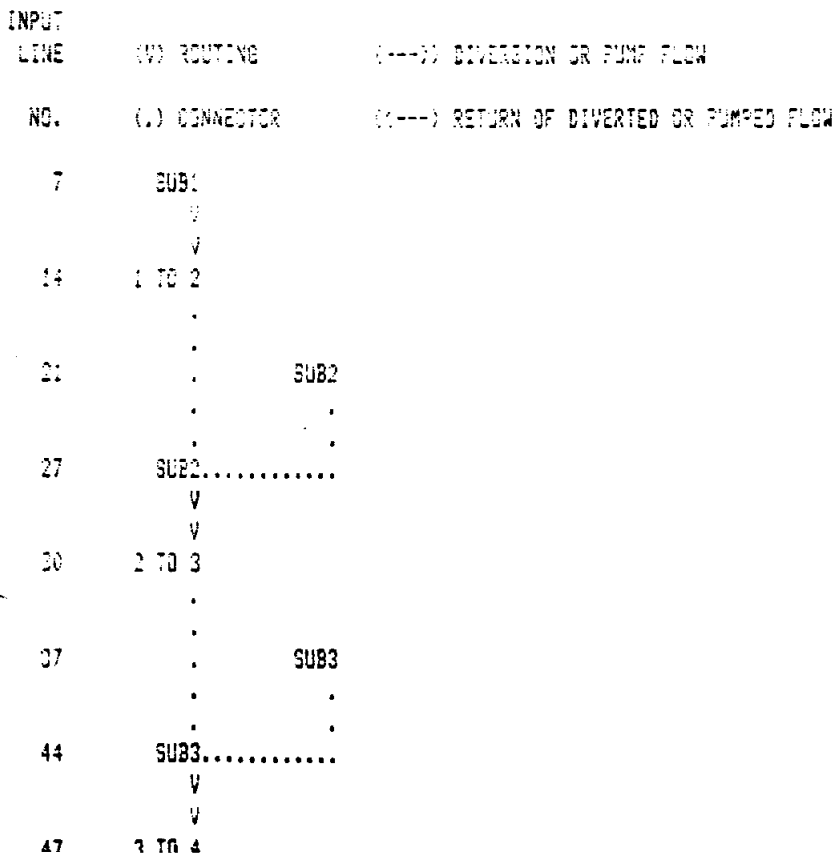
PAGE 1

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	SNOWDEN ENGINEERING, INC.									
2	ID	HALLS BAYOU WATERSHED, 100-YR. HYDROGRAPH FOR EXISTING CONDITION									
3	ID	BRADORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY									
4	ID	FILE NAME : HALEX100									
	ID	#DIAGRAM									
5	IT	15									
6	ID	5									
7	KK	SUB1 HALLS BAYOU AT COUNTY ROUTE 109									
8	KM	RUNOFF FROM SUBAREA 1									
9	KG										
10	BA	1.44									
11	PH	1	.32	2.03	4.65	6.25	7.15	9.75	10.3	13	
12	UL	1	.1	1							
13	UC	1.93	5.3								
14	KK	1 TO 2									
15	KM	ROUTE FLOWS FROM 1 TO 2									
16	KG										
17	RS	3.1	FLOW	-1							
18	SV	0	21	317	1382	0					
19	SE	0	1000	2000	3000	0					
20	SE	13.7	25.3	29.3	34	0					
21	KK	SUB2 HALLS BAYOU AT COUNTY ROUTE 154									
22	KM	RUNOFF FROM SUBAREA 2									
23	KG										
24	BA	0.47									
25	PH	1	.92	2.03	4.65	6.25	7.15	9.75	10.3	13	
26	UC	1.15	3.94								
27	KK	SUB2									
28	KM	COMBINE HYDRES AT 2									
29	HC	2									
30	KK	2 TO 3									
31	KM	ROUTE FLOWS FROM 2 TO 3									
32	KG										
33	RS	3.4	FLOW	-1							
34	SV	0	53	543	3642	0					



LINE	CD	1	2	3	4	5	6	7	8	9	10	
88	KK	SUB6 HALLS BAYOU AT DOWNSTREAM OF CLOUD BAYOU										
89	KM	RUNOFF FROM SUBAREA 6										
90	KD											
91	BA	10.42										
92	PH	1	1.82	2.00	4.68	6.25	7.15	8.75	10.3	12		
93	UB	1.0	0.1									
94	UC	5.0	10.5									
95	KK	SUB6										
96	KM	COMBINE HYDROS AT 6										
97	HC	2										
98	KK	8 TO 7										
99	KM	ROUTE FLOOD FROM 8 TO 7										
100	KD											
101	RE	1.1	7.04	1								
102	SV	0	50	150	350	500						
103	SB	0	1000	1000	3000	5000						
104	SE	0	0.5	7.0	3.0	8.4						
105	KK	SUB7 HALLS BAYOU AT DOWNSTREAM OF OAK DITCH										
106	KM	RUNOFF FROM SUBAREA 7										
107	KD											
108	BA	0.0										
109	PH	1	1.82	2.00	4.68	6.25	7.15	8.75	10.3	12		
110	UB	1.0	0.1									
111	UC	5.4	10.5									
112	KK	SUB7										
113	KM	COMBINE HYDROS AT 7										
114	HC	2										
115	ZZ											

SCHEMATIC DIAGRAM OF STREAM NETWORK



```

64      .      SUB4
      .
      .
65     SUB5.....
      .
      .
66     4 TO 5
      .
      .
67      .      SUB5
      .
      .
68     SUB5.....
      .
      .
69     5 TO 6
      .
      .
70      .      SUB6
      .
      .
71     SUB6.....
      .
      .
72     6 TO 7
      .
      .
73      .      SUB7
      .
      .
74     SUB7.....

```

\*\*\*\*\* RUNOFF ALSO COMPUTED AT THIS LOCATION

1

\*\*\*\*

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1, 1985  
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, GA. 30516

\*\*\*\*

SNOWDEN ENGINEERING, INC.  
 FALLS BAYOU WATERSHED, 100-YR. HYDROGRAPH FOR EXISTING CONDITION  
 BRAZORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY  
 FILE NAME : HALEX100

```

8 TO  OUTPUT CONTROL VARIABLES
      IPRNT      5  PRINT CONTROL
      IPLOT      0  PLOT CONTROL
      QSCAL      0.  HYDROGRAPH PLOT SCALE

```

```

17  HYDROGRAPH TIME DATA
      NMIN      15  MINUTES IN COMPUTATION INTERVAL
      IDATE      1  0  STARTING DATE
      ITIME      0000  STARTING TIME
      NQ         200  NUMBER OF HYDROGRAPH ORDINATES
      NDDATE     3  0  ENDING DATE
      NDTIME     0145  ENDING TIME

```

```

COMPUTATION INTERVAL  .25 HOURS
TOTAL TIME BASE       49.75 HOURS

```

ENGLISH UNITS

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

19 JI \* SUB1 \* HALLS BAYOU AT COUNTY ROUTE 163

\*\*\*\*\*

19 JI OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
ISCAL 0 HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

\* \*
\* 1 TO 2 \*
\* \*

\*\*\*\*\*

19 JI OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
ISCAL 0 HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 1000.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

\* \*
\* SUB2 \* HALLS BAYOU AT COUNTY ROUTE 164
\* \*

\*\*\*\*\*

30 JI OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
ISCAL 0 HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

\* \*
\* 2 TO 3 \*
\* \*

\*\*\*\*\*

30 JI OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

37 KK \* 3080 \* HALLS BAYOU AT TAYAL CROSSING

\*\*\*\*\*

38 KI OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

47 KK \* 3 TO 4 \*

\*\*\*\*\*

49 KO OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

54 KK \* 3084 \* HALLS BAYOU AT POINT 4

\*\*\*\*\*

55 KI OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

54 KK \* 4 TO 5 \*

\*\*\*\*\*

66 KO OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

71 KK \* SUBS \* HALLS BAYOU AT HALLS BAYOU ROAD

\*\*\*\*\*

73 KC OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

81 KK \* 6 TO 8 \*

\*\*\*\*\*

83 KD OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

88 KK \* SUBS \* HALLS BAYOU AT DOWNSTREAM OF CLOUD BAYOU

\*\*\*\*\*

90 KO OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

98 KK \* 6 TO 7 \*

\*\*\*\*\*

100 KQ OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE





+								10.13	11.56
	HYDROGRAPH AT								
+		8036	1770.	19.00	1745.	1054.	3211.	19.42	
	D COMBINED AT								
		8036	1090.	21.00	703.	8034.	1990.	19.82	
	ROUTED TO								
		8 70 7	1000.	19.75	3470.	5000.	1688.	19.82	
								10.91	11.75
	HYDROGRAPH AT								
-		8037	1070.	18.00	1110.	301.	588.	3.00	
	D COMBINED AT								
-		8037	0053.	11.50	1775.	5586.	3226.	33.02	

\*\*\* NORMAL END OF REC-1 \*\*\*

APPENDIX III  
 (CONT.)

THIS 80-VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICE, AND THE NUMBER OF PLAYS ARE REDUCED TO 3

FEB-1 1985

PAGE 1

LINE	1	2	3	4	5	6	7	8	9	10	
1	IS	SHOWDEN ENGINEERING, INC.									
2	IS	HALLS BAYOU WATERSHED, 15-YR. HYDROGRAPH FOR EXISTING CONDITION									
3	IS	BRADORIA COUNTY, S & R DIST. C, MASTER DRAINAGE STUDY									
4	IS	FILE NAME : HALEX25									
	#DIAGRAM										
5	IT	15									200
6	IS	5									
7	KK	SUB1 HALLS BAYOU AT COUNTY ROUTE 155									
8	KM	RUNOFF FROM SUBAREA 1									
9	KD										
10	BA	1.44									
11	PH	1	.79	1.72	3.35	4.95	5.55	5.9	6.3	10	
12	UC	1	.1	1							
13	UC	1.55	5.9								
14	KK	1 TO 2									
15	KM	ROUTE FLOWS FROM 1 TO 2									
16	KD										
17	RS	5.2	FLOW	-1							
18	SV	0	21	317	1382						
19	SB	0	1000	2000	3000						
20	SE	13.7	25.3	29.3	34						
21	KK	SUB2 HALLS BAYOU AT COUNTY ROUTE 154									
22	KM	RUNOFF FROM SUBAREA 1									
23	KD										
24	BA	0.47									
25	PH	1	.79	1.72	3.35	4.95	5.55	5.9	6.3	10	
26	UC	1.16	3.94								
27	KK	SUB3									
28	KM	COMBINE HYDROG AT 2									
29	KD	2									
30	KK	2 TO 3									
31	KM	ROUTE FLOWS FROM 2 TO 3									
32	KD										
33	RS	3.4	FLOW	-1							
34	SV	0	53	543	3642						
35	SB	0	1000	2000	3000						
36	SE	11.8	24.1	29.1	34.0						
37	KK	SUB3 HALLS BAYOU AT CANAL CROSSING									
38	KM	RUNOFF FROM SUBAREA 3									

39	BA	2.2								
40	PH	1		1.70	1.70	3.35	4.05	5.55	6.9	8.3
42	LU	1.0	0.1	1						
43	UC	2.01	3.17							

HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

44	KK	3 TO 3								
45	KM	COMBINE HYDROG AT 3								
46	HC	2								
47	KK	3 TO 4								
48	KM	ROUTE FLOWS FROM 3 TO 4								
49	KD									
50	RS	7.5	FLOW	-1						
51	SV	0	100	325	570	1170				
52	SQ	0	1000	2000	3000	5000				
53	SE	0	7.3	11.6	13.9	16.7				

54	KK	SUB4 HALLS BAYOU AT POINT 4								
55	KM	RUNOFF FROM SUBAREA 4								
56	KD									
57	BA	6.7								
58	PH	1		1.70	1.70	3.35	4.05	5.55	6.9	8.3
59	LU	1.0	0.1	1						
60	UC	3.0	20.5							

61	KK	SUB4								
62	KM	COMBINE HYDROG AT 4								
63	HC	2								

64	KK	4 TO 5								
65	KM	ROUTE FLOWS FROM 4 TO 5								
66	KD									
67	RS	3.2	FLOW	-1						
68	SV	0	80	150	265	345				
69	SQ	0	1000	2000	3000	5000				
70	SE	0	6.9	10.4	12.7	15.3				

71	KK	SUB5 HALLS BAYOU AT HALLS BAYOU ROAD								
72	KM	RUNOFF FROM SUBAREA 5								
73	KD									
74	BA	8.59								
75	PH	1		1.70	1.70	3.35	4.05	5.55	6.9	8.3
76	LU	1.0	0.1	1						
77	UC	3.12	19.6							

78	KK	SUB5								
79	KM	COMBINE HYDROG AT 5								
80	HC	2								

81	KK	5 TO 6								
82	KM	ROUTE FLOWS FROM 5 TO 6								
83	KD									
84	RE	10.3	FLOW	-1						
85	SV	0	300	500	780	1100				
86	SQ	0	1000	2000	3000	5000				
87	SE	0	3.	7.3	8.6	9.8				

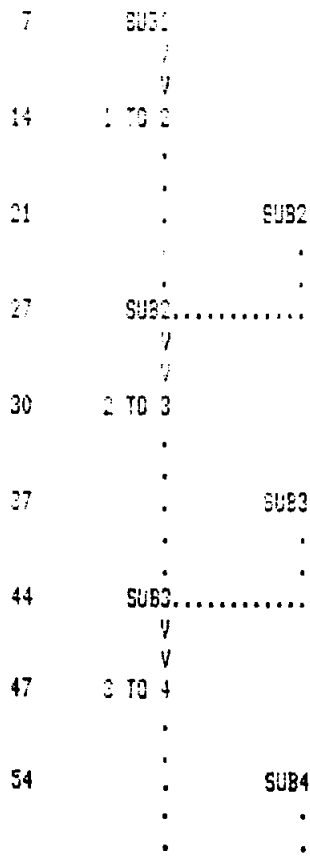
HEC-1 INPUT

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

20	KM	RUNOFF FROM SUBAREA 6									
21											
22	3A	10.42									
23	3H	1	.70	1.70	3.05	4.95	5.55	6.3	6.0	10	
24	LU	1.0	0.1								
24	UC	3.0	13.5								
25											
26	KM	COMBINE HYDROS AT 6									
27	HC	0									
28											
29	KK	6 TO 7									
30	KM	ROUTE FLOW FROM 6 TO 7									
30	CD										
301	RS	0.1	FLOW	1							
302	SV	0	50	150	250	500					
303	SQ	0	1000	2000	3000	5000					
304	SE	0	2.5	7.0	8.0	9.4					
305											
306	KK	SUB7 HALLS BAYOU AT DOWNSTREAM OF DAK DITCH									
306	KM	RUNOFF FROM SUBAREA 7									
307											
308	3A	3.2									
309	3H	1	.70	1.70	3.05	4.95	5.55	6.3	6.0	10	
310	LU	1.0	0.1								
311	UC	3.4	13.5								
312											
312	KK	SUB7									
313	KM	COMBINE HYDROS AT 7									
314	HC	0									
315	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (---V) DIVERSION OR PUMP FLOW  
 NO. (.) CONNECTOR (---) RETURN OF DIVERTED OR PUMPED FLOW



```

84 4 70 8
.
.
.
87  SUB6
.
.
.
90  SUB6.....
.
.
.
93 8 70 8
.
.
.
96  SUB6
.
.
.
99  SUB6.....
.
.
.
102 4 70 7
.
.
.
105  SUB7
.
.
.
108  SUB7.....

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

\*\*\*\*  
FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1, 1985  
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 500 SECOND STREET, DAVIS, CA. 95618  
\*\*\*\*

SNOWDEN ENGINEERING, INC.  
HALLS BAYOU WATERSHED, 25-YR. HYDROGRAPH FOR EXISTING CONDITION  
BRAZORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY  
FILE NAME : HALEX2E

```

5 10  OUTPUT CONTROL VARIABLES
      IPRNT      5  PRINT CONTROL
      IPLOT      0  PLOT CONTROL
      BSCAL      3.  HYDROGRAPH PLOT SCALE

```

```

IT  HYDROGRAPH TIME DATA
      MNIN      15  MINUTES IN COMPUTATION INTERVAL
      IDATE      1  0  STARTING DATE
      ITIME      0000  STARTING TIME
      NQ         200  NUMBER OF HYDROGRAPH ORDINATES
      NDDATE     3  0  ENDING DATE
      NDTIME     0145  ENDING TIME

```

```

      COMPUTATION INTERVAL      .25 HOURS
      TOTAL TIME BASE           49.75 HOURS

```

ENGLISH UNITS

\*\*\* \*\*

7 KK \* \* \* \* \*  
\* \* \* \* \*  
\*\*\*\*\*

9 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \* \* \* \*  
14 KK \* \* \* \* \*  
\* \* \* \* \*  
\*\*\*\*\*

15 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED PULSE ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 1000.  
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \* \* \* \*  
21 KK \* \* \* \* \*  
\* \* \* \* \*  
\*\*\*\*\*

23 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

\*\*\*\*\*  
\* \* \* \* \*  
30 KK \* \* \* \* \*  
\* \* \* \* \*  
\*\*\*\*\*

32 KD OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*~

```
*****
+
37 KK + SUBD + HALLS BAYOU AT CANAL CROSSING
+
*****
```

```
09 KC OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\*\*\*

```
*****
+
47 K + D TO 4 +
+
*****
```

```
43 KC OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\*\*\*

```
*****
+
54 KC + SUB4 + HALLS BAYOU AT POINT 4
+
*****
```

```
53 KC OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\*\*\*

```
*****
+
54 KK + 4 TO 5 +
+
*****
```

```
65 KC OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      BSCAL      0. HYDROGRAPH PLOT SCALE
```

\*\*\*\*\*



71 KK \* 5885 \* HALLS BAYOU AT HALLS BAYOU ROAD

\*\*\*\*\*

73 KK OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

81 KK \* 5 TO 5 \*

\*\*\*\*\*

83 KK OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

88 KK \* 8086 \* HALLS BAYOU AT DOWNSTREAM OF CLOUD BAYOU

\*\*\*\*\*

90 KK OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

98 KK \* 6 TO 7 \*

\*\*\*\*\*

100 KK OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
BSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

105 KK \* 5088 \* HALLS BAYOU AT DOWNSTREAM OF CLOUD BAYOU

\*\*\*\*\*

107 K0

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
 IPLOT 9 PLOT CONTROL  
 ISCAL 1 HYDROGRAPH PLOT SCALE

RUNOFF DEMAND  
 FLOW IN CFS10 FEET PER SECOND  
 TIME IN HOURS, AREA IN SQUARE FEET

OPERATION	STATION	PEAK FLOW	TIME TO PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SUB1	710.	14.25	593.	271.	135.	1.44		
ROUTED TO	1 TO 2	700.	14.50	595.	271.	135.	1.44	21.93	14.50
HYDROGRAPH AT	SUB2	310.	13.50	234.	91.	44.	1.47		
2 COMBINED AT	SUB2	999.	14.25	809.	381.	180.	1.51		
ROUTED TO	2 TO 3	970.	15.00	803.	381.	180.	1.51	20.01	15.00
HYDROGRAPH AT	SUB3	840.	14.50	738.	333.	205.	2.20		
2 COMBINED AT	SUB3	1907.	15.00	1538.	733.	385.	4.11		
ROUTED TO	3 TO 4	1752.	15.75	1517.	753.	384.	4.11	10.68	15.75
HYDROGRAPH AT	SUB4	1108.	16.50	1065.	517.	495.	5.70		
2 COMBINED AT	SUB4	2775.	17.50	2523.	1557.	870.	10.51		
ROUTED TO	4 TO 5	2759.	18.00	2516.	1553.	875.	10.91	12.14	18.00
HYDROGRAPH AT	SUB5	1540.	17.75	1476.	1104.	650.	8.53		
2 COMBINED AT	SUB5	4237.	18.00	3993.	2657.	1535.	19.40		
ROUTED TO	5 TO 6	4245.	20.25	3945.	2634.	1485.	19.40	9.35	20.25
HYDROGRAPH AT	SUB6	1309.	18.50	1281.	1052.	662.	10.42		

2 COMBINED AT

3086 5539. 20.00 5208. 1654. 2147. 29.32

ROUTED TO

5 TO 7 5412. 22.00 5104. 3629. 2117. 29.32

3.50 22.00

HYDROGRAPH AT

2087 802. 10.00 743. 494. 175. 3.20

2 COMBINED AT

3037 5029. 21.75 3680. 4015. 2055. 28.02

\*\*\* NORMAL END OF RECORD \*\*\*

\*\*\*\*  
 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM 47 BLOCK VERSION) - FEE 1,100\$  
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 809 SECOND STREET, DAVID, GA. 30616  
 \*\*\*\*

SNOWDEN IV  
 CHICKEN 20

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

LINE            ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

1	ID	SNOWDEN ENGINEERING INC.									
2	ID	CHIGGER CREEK, 100-YR. HYDROGRAPH FOR EXISTING CONDITION									
3	ID	BRAZORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY									
4	ID	FILE NAME : CHICK100									
		*DIAGRAM									
5	IT	15									
6	IC	5									
7	KK	SUB1 CHIGGER CREEK AT C & R DIST. BOUNDARY									
8	KM	RUNOFF FROM SUBAREA 1									
9	KD										
10	BA	1.30									
11	PH	1	.92	2.03	4.65	6.25	7.15	8.75	10.8	13	
12	LU	1	.1	1							
13	UC	2.49	7.61								
14	KK	1 TO 2									
15	KM	ROUTE FLOWS FROM 1 TO 2									
16	KD										
17	RS	3.3	FLOW	-1							
18	SV	0	115	182	226						
19	SQ	0	500	1000	2000						
20	SE	28.4	47.2	47.8	48						
21	KK	SUB2 CHIGGER CREEK AT CR 99									
22	KM	RUNOFF FROM SUBAREA 2									
23	KD										
24	BA	.77									
25	PH	1	.92	2.03	4.65	6.25	7.15	8.75	10.8	13	
26	LU	1	.1	1							
27	UC	2.37	7.24								
28	KK	SUB2									
29	KM	COMBINE HYDROGRAPHS AT 2									
30	HC	2									
31	KK	2 TO 3									
32	KM	ROUTE FLOWS FROM 2 TO 3									
33	KD										
34	RS	3.7	FLOW	-1							
35	SV	0	240	337	405						
36	SQ	0	500	1000	2000						
37	SE	28.5	47.3	47.9	48						

```

13      KK      SUB3 CHIGGER CREEK AT C & R DIST. BOUNDARY
14      KM      RUNOFF FROM SUBAREA 3
15      KO
16      KA      1.44
17      KB      .
18      KC      .02      2.03      4.95      6.25      7.65      9.75      10.6      13
19      KD      .
20      KE      1.01      4.01

```

HEC-1 INPUT

PAGE 2

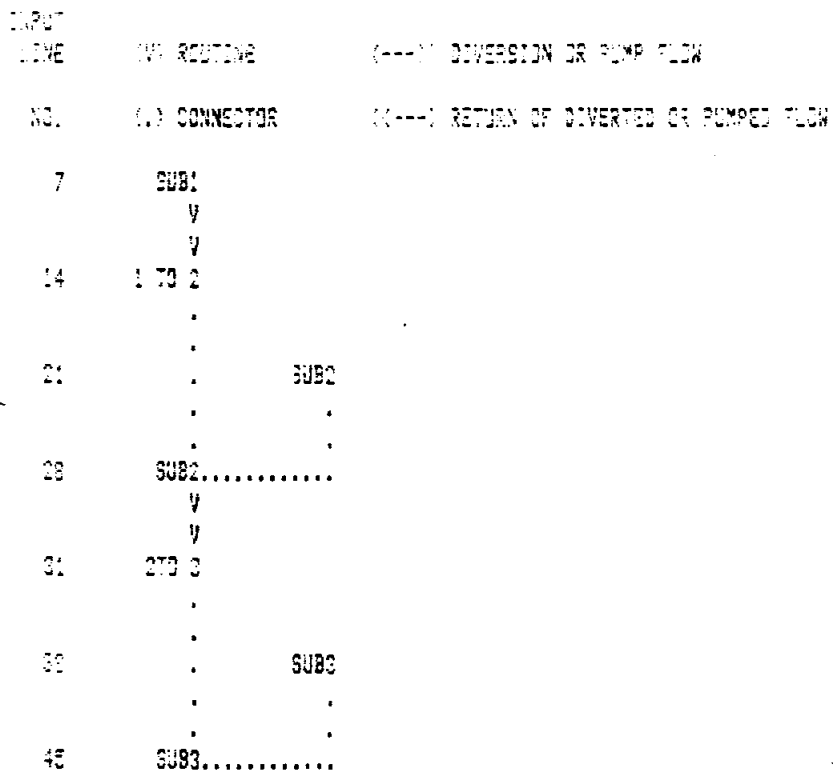
LINE 13.....14.....15.....16.....17.....18.....19.....20.....21.....22.....23.....24.....25.....26.....27.....28.....29.....30.....31.....32.....33.....34.....35.....36.....37.....38.....39.....40.....41.....42.....43.....44.....45.....46.....47.....48.....49.....50.....51.....52.....53.....54.....55.....56.....57.....58.....59.....60.....61.....62.....63.....64.....65.....66.....67.....68.....69.....70.....71.....72.....73.....74.....75.....76.....77.....78.....79.....80.....81.....82.....83.....84.....85.....86.....87.....88.....89.....90.....91.....92.....93.....94.....95.....96.....97.....98.....99.....100.....

```

45      KK      SUB3
46      KM      COMBINE HYDROS AT C
47      KC      2
48      KD

```

SCHEMATIC DIAGRAM OF STREAM NETWORK



(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

\*\*\*\*

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1, 1985  
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

\*\*\*\*

SNOWDEN ENGINEERING INC.  
CHIGGER CREEK, 100-YR. HYDROGRAPH FOR EXISTING CONDITION  
BRAZORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY  
FILE NAME : CH1X100

6 IC OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLT 0 PLOT CONTROL  
OSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA  
NMIN 15 MINUTES IN COMPUTATION INTERVAL

ITIME 0000 STARTING TIME  
NG 100 NUMBER OF HYDROGRAPH ORDINATES  
NDDATE 2 0 ENDING DATE  
NDTIME 0100 ENDING TIME

COMPLETION INTERVAL .25 HOURS  
TOTAL TIME BASE 15.00 HOURS

ENGLISH UNITS

\*\*\* \*\*

\*\*\*\*\*

7 KK \* SUB1 \* CHIGGER CREEK AT D & R D DIST. BOUNDARY

\*\*\*\*\*

8 KC OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
ISCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

14 KK \* 1 TO 2 \*

\*\*\*\*\*

18 KC OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
ISCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

21 KK \* SUB2 \* CHIGGER CREEK AT CR 39

\*\*\*\*\*

23 KC OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
ISCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

\* \*

\*\*\*\*\*

```

00 00          OUTPUT CONTROL VARIABLES
              IPRNT          5 PRINT CONTROL
              IPLOT          0 PLOT CONTROL
              QSCALE        0. HYDROGRAPH PLOT SCALE
  
```

\*\*\*\*\*

```

00 01          *****
              *          *
00 02          *      SUBS *      CHUBBER CREEK AT C & R D DIST. BOUNDARY
              *          *
              *****
  
```

```

00 03          OUTPUT CONTROL VARIABLES
              IPRNT          5 PRINT CONTROL
              IPLOT          0 PLOT CONTROL
              QSCALE        0. HYDROGRAPH PLOT SCALE
  
```

RUNOFF SUMMARY  
 FLOW IN CUBIC FEET PER SECOND  
 TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				8-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT									
	SUB1	701.	14.75	815.	273.	252.	1.32		
ROUTED TO									
	1 TO 2	886.	17.50	568.	222.	224.	1.32	47.38	17.50
HYDROGRAPH AT									
	SUB2	425.	14.75	370.	183.	156.	.77		
2 COMBINED AT									
	SUB2	993.	17.25	888.	395.	380.	2.09		
ROUTED TO									
	2 TO 3	582.	20.50	305.	233.	253.	2.09	40.41	20.50
HYDROGRAPH AT									
	SUB3	529.	14.00	262.	107.	103.	.44		
2 COMBINED AT									
	SUB3	1022.	20.25	925.	370.	355.	2.53		

\*\*\* NORMAL END OF HEC-1 \*\*\*

\*\*\*\*  
 FLOOD HYDROGRAPH PACKAGE FOR IBM 3600 VERSION - FEB 1, 1975  
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616  
 \*\*\*\*

APPENDIX IV  
 (CONT.)  
 24 5 20 10

THIS FCB-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

FCB-1 INPUT

PAGE 1

LINE	CD	1	2	3	4	5	6	7	8	9	10
1	ID	SNOWDEN ENGINEERING INC.									
2	ID	CHIGGER CREEK, 25-YR. HYDROGRAPH FOR EXISTING CONDITION									
3	ID	BRADKIA COUNTY, D & R DIST. 3, MASTER DRAINAGE STUDY									
4	ID	FILE NAME : CHICK25									
		HYDROGRAM									
5	IT	15									
6	IG	5									
7	KK	SUB1 CHIGGER CREEK AT D & R 3 DIST. BOUNDARY									
8	KM	RUNOFF FROM SUBAREA 1									
9	KD										
10	BA	1.02									
11	PH	1		1.79	1.72	3.95	4.95	5.55	5.9	3.3	10
12	LU	1	1	1							
13	UC	2.49	7.51								
14	KK	1 TO 2									
15	KM	ROUTE FLOWS FROM 1 TO 2									
16	KD										
17	RS	3.0	FLOW	-1							
18	SV	0	115	192	326						
19	SQ	0	500	1000	2000						
20	SE	29.4	47.2	47.6	48						
21	KK	SUB2 CHIGGER CREEK AT DR 33									
22	KM	RUNOFF FROM SUBAREA 2									
23	KD										
24	BA	.77									
25	PH	1		1.79	1.72	3.95	4.95	5.55	5.9	3.3	10
26	LU	1	1	1							
27	UC	2.37	7.24								
28	KK	SUB2									
29	KM	COMBINE HYDROGRAPHS AT 2									
30	KD	2									
31	KK	2 TO 3									
32	KM	ROUTE FLOWS FROM 2 TO 3									
33	KD										
34	RS	3.7	FLOW	-1							
35	SV	0	240	337	405						
36	SQ	0	500	1000	2000						
37	SE	22.7	42.1	42.5	42.5						



```

38      11  FLOOD HYDROGRAPHS (AREA 1) AT 11207, BOUNDARY
39      12  11  RUNOFF FROM SUBAREA 3
40      13  11  11
41      14  11  11
42      15  11  11
43      16  11  11
44      17  11  11

```

ACTUAL INPUT

PAGE 1

```

LINE 1.....2.....3.....4.....5.....6.....7.....8.....9.....10.....11.....12.....13.....14.....15.....16.....17.....18.....19.....20.....21.....22.....23.....24.....25.....26.....27.....28.....29.....30.....31.....32.....33.....34.....35.....36.....37.....38.....39.....40.....41.....42.....43.....44.....45.....46.....47.....48.....49.....50.....51.....52.....53.....54.....55.....56.....57.....58.....59.....60.....61.....62.....63.....64.....65.....66.....67.....68.....69.....70.....71.....72.....73.....74.....75.....76.....77.....78.....79.....80.....81.....82.....83.....84.....85.....86.....87.....88.....89.....90.....91.....92.....93.....94.....95.....96.....97.....98.....99.....100.....

```

```

45      18  11  11
46      19  11  11
47      20  11  11
48      21  11  11

```

GENERATED DIAGRAM OF STREAM NETWORK



(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

\*\*\*

FLOOD HYDROGRAPH PACKAGE (HEC-1) (IBM XT 510K VERSION) (REV 1, 1985)  
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 808 SECOND STREET, DAVIS, CA. 95618

\*\*\*

SNOWDEN ENGINEERING INC.  
 CHIGGER CREEK, 25-YR. HYDROGRAPH FOR EXISTING CONDITION  
 BRACERIA COUNTY, D & R DIST. 3, MASTER DRAINAGE STUDY  
 FILE NAME : CH1EX25

```

5 10  OUTPUT CONTROL VARIABLES
      IPRNT      5  PRINT CONTROL
      IPLST      0  PLOT CONTROL
      BSCAL      0.  HYDROGRAPH PLOT SCALE

```

```

IT  HYDROGRAPH TIME DATA
     NMIN      15  MINUTES IN COMPUTATION INTERVAL
     START     1.  STARTING DATE

```

LINE 1000 STARTING TIME  
NO 100 NUMBER OF HYDROGRAPH COORDINATES  
NDDATE 1 100 ENDING DATE  
NDTIME 0100 ENDING TIME

COMPUTATION INTERVAL 0.25 HOURS  
TOTAL TIME BASIC 05.00 HOURS

EXPLICIT STATE

\*\*\* \*\*

\*\*\*\*\*

7 KK \* SUBC \* CHIGGER CREEK AT O & R D DIST. BOUNDARY

\*\*\*\*\*

8 KK OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
ISCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

14 KK \* 1 TO 2 \*

\*\*\*\*\*

15 KK OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
ISCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

21 KK \* SUBC \* CHIGGER CREEK AT CR 39

\*\*\*\*\*

23 KK OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
ISCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

24 KK \* 1 TO 2 \*

\*\*\*\*\*

```

38 KO      OUTPUT CONTROL VARIABLES
           IPONT      5  PRINT CONTROL
           IPLOT      0  PLOT CONTROL
           BSCALE     0.  HYDROGRAPH PLOT SCALE

```

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

```

39 KO      *      SUB3      *      CHIGGER CREEK AT C & R 3 DIST. BOUNDARY
           *      *

```

\*\*\*\*\*

```

40 KC      OUTPUT CONTROL VARIABLES
           IPONT      5  PRINT CONTROL
           IPLOT      0  PLOT CONTROL
           BSCALE     0.  HYDROGRAPH PLOT SCALE

```

ROUTE SUMMARY  
 FLOW IN CUBIC FEET PER SECOND  
 TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT	SUB1	500.	14.75	450.	197.	123.	1.32		
ROUTED TO	1 TO 2	457.	18.50	422.	169.	162.	1.32	46.44	13.50
HYDROGRAPH AT	SUB2	322.	14.75	278.	112.	113.	.77		
2 COMBINED AT	SUB2	703.	17.75	653.	287.	275.	2.09		
ROUTED TO	2 TO 3	500.	22.00	540.	171.	164.	2.09	40.19	22.00
HYDROGRAPH AT	SUB3	251.	14.00	198.	77.	74.	.44		
2 COMBINED AT	SUB3	669.	21.75	619.	248.	238.	2.53		

\*\*\* NORMAL END OF HEC-1 \*\*\*

V

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

LINE 10.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

```

1  ID      SNOWDEN ENGINEERING INC.
2  ID      DITCH D-4, 100-YR. HYDROGRAPH FOR EXISTING CONDITION
3  ID      BRAZORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY
4  ID      FILE NAME : D4EX100
5  +DIAGRAM
6  IT      15
7  ID      5
8
9  KK      SUB1 DITCH D-4 AT CR 144
10 KM      RUNOFF FROM SUBAREA 1
11 KD
12 BA      1.18
13 RH      1          .92  2.03  4.65  5.25  7.15  3.75  10.8  13
14 LU      1          .1    2
15 UC      2.05  5.18
16
17 KK      1 TO 2
18 KM      ROUTE FLOWS FROM 1 TO 2
19 KD
20 RS      3.1  FLOW      -1
21 SV      0      34      59      80
22 SQ      0      500     1000    1500
23 SE      32.5  41.5  43.4  44.7
24
25 KK      SUB2 DITCH D-4 NEAR R. R.
26 KM      RUNOFF FROM SUBAREA 2
27 KD
28 BA      .78
29 RH      1          .92  2.03  4.65  5.25  7.15  8.75  10.8  13
30 LU      1          .1    2
31 UC      1.71  6.47
32
33 KK      SUB2
34 KM      COMBINE HYDRS AT 2
35 KD      2
36
37 KK      2 TO 3
38 KM      ROUTE FLOWS FROM 2 TO 3
39 KD
40 RS      6.2  FLOW      -1
41 SV      0      104     131     156
42 SQ      0      500     1000    1500
43 SE      30.3  40.9  41.5  42.7
44
45 KK      SUB3 DITCH D-4 AT CR 10000 D-1

```

39	KK	RUNOFF FROM SUBAREA 3									
40	KD										
41	SA	.54									
42	PH	1		.92	2.03	4.65	6.25	7.15	8.75	10.3	13
43	LU	1	.1	1							
44	LC	2.82	3.93								

HEAD INPUT

PAGE 1

10.....2.....3.....4.....5.....6.....7.....8.....9.....10

45	KK	SUB3									
46	KM	COMBINE HYDROS AT 3									
47	HC	2									

48	KK	3 TO 4									
49	KM	ROUTE FLOW FROM 3 TO 4									
50	KD										
51	RS	1.5	FLOW	-1							
52	SV	0	70	90	115						
53	SQ	0	500	1000	1500						
54	SE	27.7	35.7	38.0	38.8						

55	KK	SUB4 DITCH D-4 AT HWY 35									
56	KM	RUNOFF FROM SUBAREA 4									
57	KD										
58	SA	.64									
59	PH	1		.92	2.03	4.65	6.25	7.15	8.75	10.8	13
60	LU	1	.1	1							
61	LC	2.1	7.45								

62	KK	SUB4									
63	KM	COMBINE HYDROS AT 4									
64	HC	2									

65	KK	4 TO 5									
66	KM	ROUTE FLOWS FROM 4 TO 5									
67	KD										
68	RS	3.3	FLOW	-1							
69	SV	0	35	101	149						
70	SQ	0	500	1000	1500						
71	SE	25.4	32.9	35.6	37.0						

73	KK	SUB5 DITCH D-4 AT COUNTY LINE									
74	KM	RUNOFF FROM SUBAREA 5									
75	KD										
76	SA	.72									
77	PH	1		.92	2.03	4.65	6.25	7.15	8.75	10.8	13
78	LU	1	.1	2							
79	LC	2.12	7.49								

80	KK	SUB5									
81	KM	COMBINE HYDROS AT 5									
82	HC	2									
83	ZZ										

SCHEMATIC DIAGRAM OF STREAM NETWORK

- (V) ROUTING
- (--->) DIVERSION OR PUMP FLOW
- (.) CONNECTOR
- (<---) RETURN OF DIVERTED OR PUMPED FLOW

```

14 1 TO 2
.
.
21 . SUB2
.
.
SUB2.....
V
V
31 2 TO 3
.
.
38 . SUB3
.
.
45 SUB3.....
V
V
49 3 TO 4
.
.
55 . SUB4
.
.
62 SUB4.....
V
V
65 4 TO 5
.
.
73 . SUB5
.
.
80 SUB5.....

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

1

\*\*\*\*  
FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1, 1985  
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 809 SECOND STREET, DAVIS, CA. 95616  
\*\*\*\*

SNOWDEN ENGINEERING INC.  
DITCH D-4, 100-YR. HYDROGRAPH FOR EXISTING CONDITION  
BRAZORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY  
FILE NAME : DAEK100

6 10 OUTPUT CONTROL VARIABLES

IPRNT	5	PRINT CONTROL
IPLOT	0	PLOT CONTROL
BSCAL	0.	HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA

NMIN	15	MINUTES IN COMPUTATION INTERVAL
IDATE	1 0	STARTING DATE
ITIME	0000	STARTING TIME
NQ	101	NUMBER OF HYDROGRAPH ORDINATES
NDDATE	2 0	ENDING DATE
NDTIME	0100	ENDING TIME

COMPUTATION INTERVAL	.25 HOURS
TOTAL TIME BASE	25.00 HOURS

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*

7 KK \* SUB1 \* DITCH B-4 AT CR 144

\*\*\*\*\*

9 KO OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

14 KK \* 1 TO 2 \*

\*\*\*\*\*

16 KO OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

21 KK \* SUB2 \* DITCH D-4 NEAR R. R.

\*\*\*\*\*

23 KO OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*

24 KK \* 2 TO 3 \*

\*\*\*\*\*

33 KO OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
+ +  
38 KK + SUB3 + DITCH D-4 ACROSS R. R.  
+ +  
\*\*\*\*\*

40 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
+ +  
48 KK + 3 TO 4 +  
+ +  
\*\*\*\*\*

50 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*\*

\*\*\*\*\*  
+ +  
55 KK + SUB4 + DITCH D-4 AT HWY 35  
+ +  
\*\*\*\*\*

57 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
+ +  
KK + 4 TO 5 +  
+ +  
\*\*\*\*\*

67 K0 OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL





2 COMBINED AT

5085

1886.

10.50

1873.

307.

774.

4.34

\*\*\*

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT/PC VERSION) -FEB 1, 1985

U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 509 SECOND STREET, DAVIS, CA. 95618

\*\*\*

                    I  
CONT.

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

PAGE 1

```

LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1         ID      SNOWDEN ENGINEERING INC.
2         ID      DITCH D-4, 15-HR. HYDROGRAPH FOR EXISTING CONDITION
3         ID      BRAZORIA COUNTY, C & R DIST. C, MASTER DRAINAGE STUDY
4         ID      FILE NAME : D4EX05
          *DIAGRAM
5         IT      15
6         IG      5
7         KK      SUB1 DITCH D-4 AT CR 144
8         KM      RUNOFF FROM SUBAREA 1
9         KD
10        SA      1.15
11        PH      1      0      .79      1.72      3.95      4.95      5.55      5.9      8.3      10
12        LU      1      .1      2
13        UC      2.05      6.18
14        KK      1 TO 2
15        KM      ROUTE FLOWS FROM 1 TO 2
16        KD
17        PE      3.1      FLOW      -1
18        SV      0      34      55      80
19        SQ      0      500      1000      1500
20        SE      32.9      41.9      43.4      44.7
21        KK      SUB2 DITCH D-4 NEAR R. R.
22        KM      RUNOFF FROM SUBAREA 2
23        KD
24        SA      .76
25        PH      1      .79      1.72      3.95      4.95      5.55      5.9      8.3      10
26        LU      1      .1      2
27        UC      1.71      6.47
28        KK      SUB2
29        KM      COMBINE HYDROS AT 2
30        KC      2
31        KK      2 TO 3
32        KM      ROUTE FLOWS FROM 2 TO 3
33        KD
34        RS      6.2      FLOW      -1
35        SV      0      104      131      166
36        SQ      0      500      1000      1500
37        SE      30.3      40.9      41.5      42.7

```

```

39      01      RUNOFF FROM SUBAREA 2
40      02
41      0A      1.34
42      0H      1          .79      1.72      3.85      4.95      5.55      6.9      8.3      10
43      0J      1          .1
44      0C      2.38      7.69

```

HEAD INPUT

PAGE 1

LINE TO.....3.....4.....5.....6.....7.....8.....9.....10

```

45      00      SUB3
46      01      COMBINE HYDROS AT 3
47      02

```

```

48      0K      3 TO 4
49      0M      ROUTE FLOWS FROM 3 TO 4
50      0D
51      0S      2.5      FLOW      -1
52      0V      0          70          80          145
53      0W      0          500         1000         1500
54      0E      27.7      33.7      36.0      33.8

```

```

55      0K      SUB4 DITCH 3-4 AT HWY 35
56      0M      RUNOFF FROM SUBAREA 4
57      0D
58      0A      .64
59      0H      1          .79      1.72      3.85      4.95      5.55      6.9      8.3      10
60      0J      1          .1
61      0C      2.1      7.45

```

```

62      0K      SUB4
63      0M      COMBINE HYDROS AT 4
64      0C      2

```

```

65      0K      4 TO 5
66      0M      ROUTE FLOWS FROM 4 TO 5
67      0D
68      0S      3.3      FLOW      -1
69      0V      0          35          101          149
70      0W      0          500         1000         1500
71      0E      25.4      32.9      35.5      37.0
72

```

```

73      0K      SUB5 DITCH 3-4 AT COUNTY LINE
74      0M      RUNOFF FROM SUBAREA 5
75      0D
76      0A      .72
77      0H      1          .79      1.72      3.85      4.95      5.55      6.9      8.3      10
78      0J      1          .1          2
79      0C      2.12      7.49

```

```

80      0K      SUB5
81      0M      COMBINE HYDROS AT 5
82      0C      2
83      0D

```

SCHEMATIC DIAGRAM OF STREAM NETWORK

LINE (V) ROUTING (--->) DIVERSION OR PUMP FLOW  
 NO. (.) CONNECTOR ((---)) RETURN OF DIVERTED OR PUMPED FLOW

SUB:  
 V

```

19 1 TO 1
.
.
21 . SUB2
.
.
SUB2.....
.
.
21 1 TO 3
.
.
36 . SUB3
.
.
45 SUB3.....
.
.
.
43 3 TO 4
.
.
55 . SUB4
.
.
62 SUB4.....
.
.
.
55 4 TO 5
.
.
.
73 . SUB5
.
.
80 SUB5.....

```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

\*\*\*\*  
FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT EICK VERSION) -FEB 1, 1985  
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 809 SECOND STREET, DAVIS, CA. 95616  
\*\*\*\*

SNOWDEN ENGINEERING INC.  
DITCH D-4, 25-YR. HYDROGRAPH FOR EXISTING CONDITION  
BRAZORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY  
FILE NAME : D4EX25

```

6 IC OUTPUT CONTROL VARIABLES
      IPRNT      5 PRINT CONTROL
      IPLOT      0 PLOT CONTROL
      ESCAL      0. HYDROGRAPH PLOT SCALE

```

```

IT HYDROGRAPH TIME DATA
      NMIN      15 MINUTES IN COMPUTATION INTERVAL
      IDATE      1 0 STARTING DATE
      ITIME      0000 STARTING TIME
      NQ         101 NUMBER OF HYDROGRAPH ORDINATES
      NDDATE     0 0 ENDING DATE
      NDTIME     0100 ENDING TIME

```

```

COMPUTATION INTERVAL .25 HOURS
TOTAL TIME BASE 25.00 HOURS

```

\*\*\* \*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
7 KK \* SUB1 + DITCH 0-4 AT OF 1-4  
\* \*  
\*\*\*\*\*

9 KK OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
14 KK \* 1 TO 2 +  
\* \*  
\*\*\*\*\*

16 KK OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
21 KK \* SUB2 + DITCH 0-4 NEAR R. R.  
\* \*  
\*\*\*\*\*

23 KK OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\* \*\* \*\*

\*\*\*\*\*  
\* \*  
31 KK \* 2 TO 3 +  
\* \*  
\*\*\*\*\*

33 KK OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* WARNING \*\*\* MODIFIED CIVIL SCHEMING MAY BE NUMERICALLY UNSTABLE FOR OUTLETS BETWEEN 500 TO 1000



THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.  
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE. USE A LONGER REACH.

\*\*\*\*\*

\*\*\*\*\*  
+ +  
38 KK \* SUB3 \* DITCH D-4 ACROSS R. R.  
+ +  
\*\*\*\*\*

40 KK OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
ISCAL 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*

\*\*\*\*\*  
+ +  
48 KK \* 3 TO 4 \*  
+ +  
\*\*\*\*\*

50 KK OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
ISCAL 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*

\*\*\*\*\*  
+ +  
55 KK \* SUB4 \* DITCH D-4 AT HWY 88  
+ +  
\*\*\*\*\*

57 KK OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
ISCAL 0. HYDROGRAPH PLOT SCALE

\*\*\*\*\*

\*\*\*\*\*  
+ +  
62 KK \* 4 TO 5 \*  
+ +  
\*\*\*\*\*

67 KK OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL



COMBINED AT

3095

1481.

20.25

1406.

595.

571.

4.34

\*\*\*\*  
 FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1, 1985  
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616  
 \*\*\*\*

Appendix VI

THIS HEC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

HEC-1 INPUT

LINE	ID	1	2	3	4	5	6	7	8	9	10
1	ID	SNOWDEN ENGINEERING INC.									
2	ID	DICKINSON BAYOU, 100-YR. HYDROGRAPH FOR EXISTING CONDITION									
3	ID	BRAZORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY									
4	ID	FILE NAME : DICEX100									
	*DIAGRAM										
5	IT	15									
6	IG	5									
7	KK	SUB1 DICKINSON BAYOU AT HWY 55									
8	KM	RUNOFF FROM SUBAREA 1									
9	KD										
10	BA	.05									
11	PH	1		.92	2.03	4.65	6.25	7.15	8.75	10.8	13
12	LU	1	.1	1							
13	UC	1.09	5.45								
14	KK	1 TO 2									
15	KM	ROUTE FLOWS FROM 1 TO 2									
16	KD										
17	RS	13	FLOW	-1							
18	SV	0	85	380	470						
19	SQ	0	250	500	1000						
20	SE	27.3	37.4	37.7	38.9						
21	KK	SUB2 DICKINSON BAYOU AT CANAL									
22	KM	RUNOFF FROM SUBAREA 2									
23	KD										
24	BA	.2									
25	PH	1		.92	2.03	4.65	6.25	7.15	8.75	10.8	13
26	LU	1	.1	1							
27	UC	1.27	4.3								
28	KK	SUB2									
29	KM	COMBINE HYDROS AT 2									
30	HC	2									
31	KK	2 TO 3									
32	KM	ROUTE FLOWS FROM 2 TO 3									
33	KD										
34	RS	1.5	FLOW	-1							
35	SV	0	11	26	41						
36	SQ	0	250	500	1000						
37	SE	30.8	36.5	37.2	37.8						

```

38      KK      SUB2 DICKINSON BAYOU AT 100W 1 LINE
39      KM      RUNOFF FROM SUBAREA 3
40      KO
41      BA      1.8
42      PH      1          1.92    2.00    4.55    5.25    7.15    8.75    10.8    13
43      CC      1          1          1
44      CC      1.0      5.56

```

HEC-1 INPUT

PAGE 2

```

LINE      1.....2.....3.....4.....5.....6.....7.....8.....9.....10

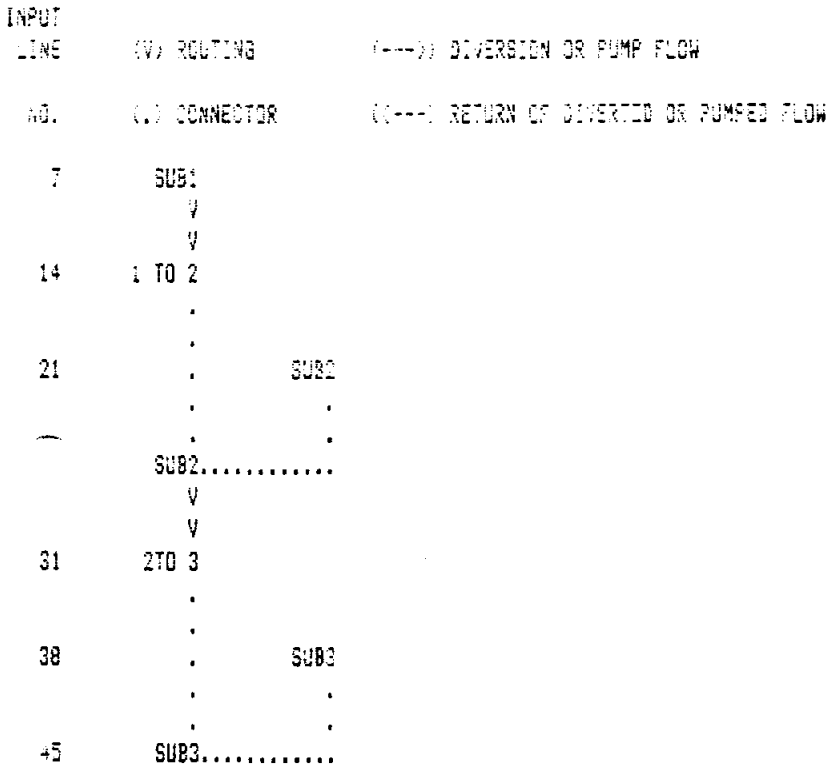
```

```

45      KK      SUB3
46      KM      COMBINE HYDROS AT 3
47      KC      2
48      ZZ

```

SCHEMATIC DIAGRAM OF STREAM NETWORK



(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

\*\*\*\*

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985  
U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 609 SECOND STREET, DAVIS, CA. 95616

\*\*\*\*

SNOWDEN ENGINEERING INC.  
DICKINSON BAYOU, 100-YR. HYDROGRAPH FOR EXISTING CONDITION  
BRAZORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY  
FILE NAME : DICEX100

OUTPUT CONTROL VARIABLES  
IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH TIME DATA  
NNIN 15 MINUTES IN COMPUTATION INTERVAL  
IDATE 1 0 STARTING DATE  
ITIME 0000 STARTING TIME

NO. 174 NUMBER OF HYDROGRAPH STATIONS  
MDATE 2 0 ENDING DATE  
MOTIME 0100 ENDING TIME

COMPUTATION INTERVAL 1.25 HOURS  
TOTAL TIME BASE 25.00 HOURS

ENGLISH UNITS

\*\*\* \*\*

\*\*\*\*\*

7 KK \* SUB1 \* DICKINSON BAYOU AT HWY 35

\*\*\*\*\*

9 KD OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLDT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

K \* 1 TO 2 \*

\*\*\*\*\*

16 KD OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLDT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

21 KK \* SUB2 \* DICKINSON BAYOU AT CANAL

\*\*\*\*\*

23 KD OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLDT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

31 KK \* 2 TO 3 \*

```

*****
33 KC      OUTPUT CONTROL VARIABLES
          IPRNT      5  PRINT CONTROL
          IPLOT      0  PLOT CONTROL
          QSCAL      0.  HYDROGRAPH PLOT SCALE

```

\*\*\* \*\* \*\* \*\* \*\*

```

*****
38 KX      +      SUB3      +      DICKINSON BAYOU AT COUNTY LINE
          *          *
          *****

```

```

40 KD      OUTPUT CONTROL VARIABLES
          IPRNT      5  PRINT CONTROL
          IPLOT      0  PLOT CONTROL
          QSCAL      0.  HYDROGRAPH PLOT SCALE

```

RUNOFF SUMMARY  
 FLOW IN CUBIC FEET PER SECOND  
 TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT									
	SUB1	42.	13.75	34.	14.	14.	.05		
ROUTED TO									
	1 TO 2	37.	13.50	32.	12.	12.	.06	28.79	13.50
HYDROGRAPH AT									
	SUB2	165.	13.75	127.	50.	48.	.20		
2 COMBINED AT									
	SUB2	170.	13.75	145.	62.	50.	.25		
ROUTED TO									
	2 TO 3	162.	14.50	142.	61.	53.	.25	34.49	14.50
HYDROGRAPH AT									
	SUB3	124.	13.50	102.	43.	41.	.18		
2 COMBINED AT									
	SUB3	281.	14.25	242.	104.	100.	.44		

\*\*\* NORMAL END OF HEC-1 \*\*\*

\*\*\*\*  
 FLOOD HYDROGRAPH PACKAGE REC-1 (IBM XT 512K VERSION) -FEB 1, 1985  
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 509 SECOND STREET, DAVIS, CA. 95616  
 \*\*\*\*

PROJECT # 11  
 (CONT'D)

THIS REC-1 VERSION CONTAINS ALL OPTIONS EXCEPT ECONOMICS, AND THE NUMBER OF PLANS ARE REDUCED TO 3

REC-1 INPUT

LINE	ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
1	ID SNOWDEN ENGINEERING INC.
2	ID DICKINSON BAYOU, 25-YR. HYDROGRAPH FOR EXISTING CONDITION
3	ID BRAZORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY
4	ID FILE NAME : DICEXES
	*DIAGRAM
5	IT 15
6	IC 5
7	KK SUB1 DICKINSON BAYOU AT HWY 35
8	KM RUNOFF FROM SUBAREA 1
9	KD
10	BA .96
11	PH 1 .79 1.72 3.85 4.95 5.55 6.9 8.3 10
12	LU 1 .1 1
13	UC 1.09 5.45
14	KK 1 TO 2
15	KM ROUTE FLOWS FROM 1 TO 2
16	KD
17	RS 13 FLOW -1
18	SV 0 85 380 470
19	SQ 0 250 500 1000
20	SE 27.3 37.4 37.7 38.9
21	KK SUB2 DICKINSON BAYOU AT CANAL
22	KM RUNOFF FROM SUBAREA 2
23	KD
24	BA .2
25	PH 1 .79 1.72 3.85 4.95 5.55 6.9 8.3 10
26	LU 1 .1 1
27	UC 1.27 4.3
28	KK SUB2
29	KM COMBINE HYDROS AT 2
30	HC 2
31	KK 2 TO 3
32	KM ROUTE FLOWS FROM 2 TO 3
33	KD
34	RS 1.5 FLOW -1

36 32 0 250 500 1000  
 37 35 30.3 36.3 37.2 37.3

38 KK SUB3 DICKINSON BAYOU AT COUNTY LINE  
 39 KM RUNOFF FROM SUBAREA 3  
 40 KD  
 41 BA .18  
 42 PH 1 .73 1.72 3.85 4.95 5.55 5.9 6.3 10  
 43 LD 1 .1 1  
 44 DC 1.3 5.38

REC-1 INPUT

PAGE 2

42 ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

45 KK SUB3  
 46 KM COMBINE HYDROS AT 3  
 47 KC 2  
 48 ZC

SCHEMATIC DIAGRAM OF STREAM NETWORK

INPUT LINE (V) ROUTING (---) DIVERSION OR PUMP FLOW  
 NO. (.) CONNECTOR (<---) RETURN OF DIVERTED OR PUMPED FLOW

```

  7  SUB1
    V
    V
  14 1 TO 2
    .
    .
    .
    .
    .
  28 SUB2.....
    V
    V
  31 2 TO 3
    .
    .
    .
  38 .
    .
    .
    .
  45 SUB3.....
  
```

(\*\*\*) RUNOFF ALSO COMPUTED AT THIS LOCATION

\*\*\*\*

FLOOD HYDROGRAPH PACKAGE HEC-1 (IBM XT 512K VERSION) -FEB 1,1985  
 U.S. ARMY CORPS OF ENGINEERS, THE HYDROLOGIC ENGINEERING CENTER, 509 SECOND STREET, DAVIS, CA. 95616

\*\*\*\*

SNOWDEN ENGINEERING INC.  
 DICKINSON BAYOU, 25-YR. HYDROGRAPH FOR EXISTING CONDITION  
 BRAZORIA COUNTY, C & R DIST. 3, MASTER DRAINAGE STUDY  
 FILE NAME : DICEX25

6 IO

OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
 IPLOT 0 PLOT CONTROL  
 QSCAL 0. HYDROGRAPH PLOT SCALE

RMIN 15 MINUTES IN COMPUTATION INTERVAL  
DATE 1 0 STARTING DATE  
TIME 0000 STARTING TIME  
NQ 101 NUMBER OF HYDROGRAPH ORDINATES  
NDATE 2 0 ENDING DATE  
NDTIME 0100 ENDING TIME

COMPUTATION INTERVAL 1.25 HOURS  
TOTAL TIME BASE 25.00 HOURS

ENGLISH UNITS

\*\*\* \*\*

\*\*\*\*\*

7 KK \* SUB1 \* DICKINSON BAYOU AT HWY 05

\*\*\*\*\*

9 KD OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

14 KK \* 1 TO 2 \*

\*\*\*\*\*

16 KG OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*

\*\*\*\*\*

21 KK \* SUB2 \* DICKINSON BAYOU AT CANAL

\*\*\*\*\*

23 KG OUTPUT CONTROL VARIABLES

IPRNT 5 PRINT CONTROL  
IPLOT 0 PLOT CONTROL  
QSCAL 0. HYDROGRAPH PLOT SCALE

\*\*\* \*\*



```

+
+ 270 3 +
+
+*****+

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```

39 KD      OUTPUT CONTROL VARIABLES
          IPRNT      5  PRINT CONTROL
          IPLOT      0  PLOT CONTROL
          QSCAL      0.  HYDROGRAPH PLOT SCALE

```

\*\*\* \*\* \*\* \*\* \*\*

```

+*****+
+
+  SUB3 +      DICKINSON BAYOU AT COUNTY LINE
+
+*****+

```

```

40 KD      OUTPUT CONTROL VARIABLES
          IPRNT      5  PRINT CONTROL
          IPLOT      0  PLOT CONTROL
          QSCAL      0.  HYDROGRAPH PLOT SCALE

```

RUNOFF SUMMARY  
 FLOW IN CUBIC FEET PER SECOND  
 TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD			BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
				6-HOUR	24-HOUR	72-HOUR			
HYDROGRAPH AT									
	SUB1	32.	13.50	26.	10.	10.	.06		
ROUTED TO									
	1 TO 2	28.	18.50	24.	9.	8.	.06	29.43	18.50
HYDROGRAPH AT									
	SUB2	127.	13.50	96.	35.	35.	.20		
2 COMBINED AT									
	SUB2	129.	13.50	109.	45.	43.	.26		
ROUTED TO									
	270 3	122.	14.50	107.	44.	43.	.26	33.58	14.50
HYDROGRAPH AT									
	SUB3	95.	13.50	77.	31.	30.	.18		
2 COMBINED AT									
	SUB3	213.	14.25	182.	75.	72.	.44		

\*\*\* NORMAL END OF HEC-1 \*\*\*

```

*****
* WATER SURFACE PROFILES *
* VERSION OF NOVEMBER 1976 *
* UPDATED MAY 1984 *
* IBM-PC-XT VERSION AUGUST 1985 *
* RUN DATE 04-29-88 TIME 14:37:16 *
*****

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*****
* U.S. ARMY CORPS OF ENGINEERS *
* THE HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET, SUITE D *
* DAVIS, CALIFORNIA 95616 *
* (916) 440-2105 (FTS) 448-2105 *
*****

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X X XXXXXXX XXXX XXXX
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 XXXXXXX XXXX XXXXXXX

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PAGE 1

## APPENDIX VII

THIS RUN EXECUTED 04-29-88

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*****
NEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
ERROR CORR - 01,02,03,04,05,06
MODIFICATION - 50,51,52,53,54,55,56
IBM-PC-XT VERSION AUGUST 1985
*****

```

T1 SNOWDEN ENGINEERING, INC.  
T2 MUSTANG BAYOU, BRAZORIA COUNTY C & R 3 MASTERR DRAINAGE STUDY  
T3 100-YR. WATER SURFACE PROFILE FOR REVISED EXISTING CONDITION

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	2.	0.	0.	.000170	.00	.0	0.	13.000	.000
J2	NPROF	IPLDT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000
NC	.040	.040	.045	.100	.300	.000	.000	.000	.000	.000
QT	2.000	9040.000	7100.000	.000	.000	.000	.000	.000	.000	.000
X1	1766.000	30.000	4346.000	4420.000	.000	.000	.000	.000	.000	.000
6R	13.400	3060.000	13.400	3061.000	13.400	3062.000	9.000	3079.000	13.600	3103.000
6R	10.800	3114.000	10.200	3757.000	10.200	4233.000	10.600	4242.000	6.800	4256.000
6R	14.800	4283.000	14.600	4294.000	15.200	4307.000	9.600	4325.000	9.600	4346.000
6R	2.800	4361.000	.700	4371.000	-1.400	4381.000	-1.400	4390.000	.700	4400.000
6R	2.800	4410.000	8.600	4420.000	8.000	4457.000	8.600	4536.000	10.400	4604.000
6R	10.800	5067.000	10.200	5440.000	10.000	5470.000	11.400	5477.000	13.000	10000.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1765.400	27.000	7192.000	7282.000	3650.000	3000.000	3140.000	.000	.000	.000
6R	14.000	1000.000	13.000	6230.000	12.600	6444.000	11.600	6494.000	12.000	6503.000

GR	3.000	7273.000	9.800	7282.000	10.000	7309.000	14.800	7355.000	11.000	7380.000
GR	10.200	7418.000	11.000	8089.000	11.000	9000.000	10.200	9500.000	10.200	9612.000
GR	11.200	9620.000	12.200	9637.000	11.000	9645.000	12.800	9664.000	11.000	9681.000
SR	12.800	9696.000	14.000	13000.000	.000	.000	.000	.000	.000	.000
X1	1765.300	27.000	7200.000	7278.000	55.000	45.000	50.000	.000	.000	.000
X2	10.000	.000	.000	.000	.000	.000	.000	9.900	9.900	.000
GR	14.000	1000.000	13.000	6230.000	12.600	6444.000	11.600	6494.000	12.000	6503.000
GR	9.500	7109.000	9.400	7160.000	8.400	7192.000	9.100	7200.000	.800	7216.000
GR	-1.100	7242.000	.900	7269.000	9.100	7278.000	9.400	7290.000	14.800	7355.000
GR	10.200	7418.000	11.000	8089.000	11.000	9000.000	10.200	9500.000	10.200	9612.000
GR	11.200	9620.000	12.200	9637.000	11.000	9645.000	12.800	9664.000	11.000	9681.000
GR	12.800	9696.000	14.000	13000.000	.000	.000	.000	.000	.000	.000

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SB	1.000	1.560	3.000	.000	26.000	6.300	435.000	3.000	-1.100	-1.100
X1	1765.200	.000	.000	.000	18.000	18.000	18.000	.000	.000	.000
X2	.000	.000	1.000	8.100	9.500	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	9.500	9.500	.000
BT	16.000	6971.000	14.900	.000	6997.000	10.100	.000	7057.000	10.100	.000
BT	7068.000	14.300	.000	7088.000	11.100	.000	7116.000	10.300	.000	7125.000
BT	8.900	.000	7135.000	9.700	.000	7198.000	9.500	.000	7278.000	9.500
BT	.000	7297.000	9.700	.000	7350.000	10.700	.000	7561.000	12.100	.000
BT	8004.000	12.100	.000	8981.000	12.300	.000	9322.000	12.700	.000	.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1765.100	27.000	7192.000	7282.000	55.000	45.000	50.000	.000	.000	.000
GR	14.000	1000.000	13.000	6230.000	12.600	6444.000	11.600	6494.000	12.000	6503.000
GR	9.600	7109.000	9.400	7160.000	8.400	7192.000	3.000	7197.000	-1.100	7235.000
GR	3.000	7273.000	9.800	7282.000	10.000	7309.000	14.800	7355.000	11.000	7380.000
GR	10.200	7418.000	11.000	8089.000	11.000	9000.000	10.200	9500.000	10.200	9612.000
SR	11.200	9620.000	12.200	9637.000	11.000	9645.000	12.800	9664.000	11.000	9681.000
GR	12.800	9696.000	14.000	13000.000	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1764.600	29.000	6869.000	7169.000	3380.000	3245.000	3400.000	.000	.000	.000
GR	14.400	5327.000	14.400	5328.000	14.400	5329.000	14.400	5330.000	14.400	5331.000
GR	14.200	6061.000	12.600	6275.000	11.400	6378.000	11.400	6459.000	11.300	6570.000
GR	11.200	6737.000	11.100	6869.000	8.900	6949.000	2.200	6963.000	.500	6999.000
GR	-.200	7016.000	1.000	7041.000	2.100	7066.000	9.900	7089.000	10.600	7097.000
GR	11.400	7169.000	10.300	7400.000	9.800	7517.000	10.200	7616.000	11.800	8082.000
GR	13.200	8842.000	13.400	9388.000	14.000	9602.000	14.500	13000.000	.000	.000

X1	1764.500	.000	.000	.000	75.000	75.000	75.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	12.700	12.500	.000

X1	1764.400	29.000	6869.000	7169.000	10.000	10.000	10.000	.000	.000	.000
BT	6.000	6459.000	13.300	13.300	6869.000	20.300	14.500	6963.000	20.500	14.700
BT	7041.000	20.700	14.900	7169.000	20.100	14.300	7400.000	15.100	15.100	.000
GR	15.000	3481.000	13.700	3482.000	13.700	3483.000	13.700	3484.000	13.300	4793.000
GR	12.700	6284.000	13.300	6459.000	14.300	6570.000	17.500	6737.000	19.300	6859.000
GR	14.500	6869.000	8.900	6949.000	2.200	6963.000	.500	6999.000	-.200	7016.000
GR	1.000	7041.000	2.100	7066.000	9.900	7089.000	10.600	7097.000	14.300	7169.000
GR	19.300	7178.000	15.100	7400.000	12.900	7515.000	12.500	7616.000	12.500	8575.000
GR	13.200	8842.000	13.400	9288.000	14.000	9602.000	14.500	13000.000	.000	.000

X1	1764.300	.000	.000	.000	50.000	50.000	50.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000

X1	1764.200	29.000	6869.000	7169.000	10.000	10.000	10.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	12.700	12.500	.000
GR	14.400	5327.000	14.400	5328.000	14.400	5329.000	14.400	5330.000	14.400	5331.000

GR	11.200	6737.000	11.100	6869.000	8.900	5949.000	2.200	6963.000	.500	6999.000
GR	-.200	7016.000	1.000	7041.000	2.100	7066.000	9.900	7089.000	10.600	7097.000
GR	11.400	7169.000	10.300	7400.000	9.800	7517.000	10.200	7616.000	11.800	8082.000
GR	13.200	8842.000	13.400	9288.000	14.000	9602.000	14.500	13000.000	.000	.000

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NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1754.100	.000	.000	.000	75.000	75.000	75.000	.000	.000	.000
BT	2.000	9650.000	6800.000	.000	.000	.000	.000	.000	.000	.000
X1	1764.000	.000	.000	.000	300.000	300.000	300.000	.000	.100	.000

BT	2.000	6300.000	4990.000	.000	.000	.000	.000	.000	.000	.000
X1	1763.900	24.000	8420.000	8541.000	3000.000	3100.000	3180.000	.000	-.200	.000
GR	15.000	6544.000	14.300	6545.000	14.300	6546.000	14.300	6547.000	14.300	6668.000
GR	13.100	7731.000	12.500	8021.000	12.300	8175.000	9.700	8181.000	11.500	8188.000
GR	11.500	8420.000	1.100	8441.000	.000	8455.000	-.600	8463.000	1.200	8498.000
GR	6.900	8523.000	10.700	8541.000	14.100	8588.000	13.900	8611.000	10.900	8627.000
GR	11.500	9004.000	12.300	9012.000	9.700	9026.000	15.900	9038.000	.000	.000
X1	1763.700	.000	.000	.000	550.000	600.000	600.000	.000	.200	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1763.600	24.000	8420.000	8523.000	90.000	90.000	90.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	12.100	10.900	.000
GR	15.300	6066.000	15.300	6067.000	14.100	6075.000	14.300	6547.000	14.300	6668.000
GR	13.100	7731.000	12.500	8021.000	12.300	8175.000	9.700	8181.000	11.500	8188.000
GR	11.500	8420.000	.000	8455.000	-.600	8463.000	1.200	8498.000	3.000	8506.000
GR	6.900	8523.000	10.700	8541.000	14.100	8588.000	13.900	8611.000	10.900	8627.000
GR	11.500	9004.000	12.300	9012.000	9.700	9026.000	15.900	9038.000	.000	.000

SB	1.000	1.560	2.900	.000	42.000	7.400	747.000	2.500	.000	.000
X1	1763.500	.000	.000	.000	19.000	19.000	19.000	.000	.000	.000
X2	.000	.000	1.000	11.700	13.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	12.100	10.900	.000
BT	-9.000	7123.000	12.500	.000	8389.000	12.100	.000	8423.000	12.900	.000
BT	.000	8528.000	13.100	.000	8607.000	10.900	.000	8972.000	11.300	.000
BT	.000	9167.000	12.700	.000	9947.000	12.900	.000	10730.000	13.100	.000

X1	1763.400	24.000	8420.000	8541.000	90.000	90.000	90.000	.000	.000	.000
GR	15.300	6066.000	15.300	6067.000	14.100	6075.000	14.300	6547.000	14.300	6668.000
GR	13.100	7731.000	12.500	8021.000	12.300	8175.000	9.700	8181.000	11.500	8188.000
GR	11.500	8420.000	1.100	8441.000	.000	8455.000	-.600	8463.000	1.200	8498.000
GR	6.900	8523.000	10.700	8541.000	14.100	8588.000	13.900	8611.000	10.900	8627.000
GR	11.500	9004.000	12.300	9012.000	9.700	9026.000	15.900	9038.000	.000	.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1763.200	.000	.000	.000	300.000	300.000	300.000	.000	.100	.000
X1	1763.000	.000	.000	.000	1000.000	1000.000	1000.000	.000	.200	.000

X1	1762.800	32.000	9230.000	9336.000	4000.000	4000.000	4000.000	.000	-.200	.000
GR	19.000	6104.000	15.800	6121.000	15.800	7000.000	14.200	8060.000	12.900	9000.000
GR	13.300	9060.000	11.900	9070.000	12.300	9090.000	10.900	9153.000	21.100	9180.000
GR	13.700	9230.000	12.500	9233.000	1.700	9267.000	.000	9286.000	1.700	9314.000
GR	11.100	9328.000	12.600	9333.000	13.900	9336.000	17.700	9362.000	10.700	9402.000
GR	12.900	9577.000	13.100	9787.000	14.900	9794.000	11.500	9802.000	11.500	9810.000
GR	15.900	9821.000	13.700	9829.000	12.500	10136.000	17.500	10181.000	3.700	10237.000
GR	3.700	10275.000	16.900	10319.000	.000	.000	.000	.000	.000	.000

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NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1759.000	14.000	5465.000	5575.000	3930.000	4280.000	4390.000	.000	.000	.000
GR	30.500	5397.000	30.500	5398.000	30.500	5399.000	30.700	5415.000	19.900	5465.000
GR	4.300	5507.000	3.700	5514.000	3.000	5522.000	3.000	5526.000	3.700	5534.000
GR	4.300	5541.000	21.500	5575.000	21.700	5597.000	31.700	5626.000	.000	.000
X1	1758.000	15.000	4060.000	4164.000	3300.000	3100.000	3170.000	.000	.000	.000
GR	31.300	4000.000	31.300	4001.000	24.300	4033.000	20.100	4060.000	4.500	4083.000
GR	4.300	4089.000	4.000	4096.000	3.700	4099.000	4.000	4102.000	4.300	4108.000
GR	4.500	4114.000	20.300	4164.000	19.900	4184.000	28.300	4205.000	30.700	4220.000
NC	.000	.000	.000	.600	.800	.000	.000	.000	.000	.000
X1	1757.800	31.000	3182.000	3294.000	100.000	100.000	100.000	.000	-.600	.000
GR	29.000	1600.000	28.000	1682.000	28.000	1682.000	28.000	1682.000	28.000	1682.000
GR	24.100	1893.000	20.900	1909.000	20.700	2324.000	21.900	2653.000	21.700	2725.000
GR	20.100	2737.000	20.100	2764.000	23.300	2774.000	20.500	2832.000	24.300	2879.000
GR	17.700	2898.000	17.700	2905.000	23.900	2933.000	17.700	3081.000	17.700	3127.000
GR	25.700	3145.000	21.500	3182.000	6.400	3218.000	4.300	3240.000	6.300	3259.000
GR	21.500	3294.000	21.500	3799.000	21.500	3825.000	24.300	3856.000	28.000	4894.000
GR	29.000	4900.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1757.600	.000	.000	.000	2520.000	2770.000	2660.000	.000	.600	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1757.500	.000	.000	.000	60.000	60.000	60.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	22.200	22.200	.000
SB	1.050	1.560	2.800	.000	32.800	7.000	1107.000	2.500	5.000	5.000
X1	1757.400	29.000	3182.000	3294.000	16.000	16.000	16.000	.000	.000	.000
X2	.000	.000	1.000	21.500	21.700	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	22.900	22.900	.000
BT	10.000	2990.000	21.500	.000	3026.000	20.900	.000	3090.000	21.100	.000
BT	3137.000	22.100	.000	3185.000	22.900	.000	3225.000	22.900	.000	3288.000
BT	23.300	.000	3374.000	22.700	.000	3430.000	21.900	.000	3650.000	21.700
BT	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	29.000	600.000	29.000	600.000	239.000	600.000	29.000	600.000	29.000	600.000
GR	24.100	1893.000	20.900	1909.000	20.700	2324.000	21.900	2653.000	21.700	2725.000
GR	20.100	2737.000	20.100	2764.000	23.300	2774.000	20.500	2832.000	24.300	2879.000
GR	17.700	2898.000	17.700	2905.000	23.900	2933.000	17.700	3081.000	17.700	3127.000
GR	25.700	3145.000	21.500	3182.000	6.400	3218.000	4.300	3240.000	6.300	3259.000
GR	21.500	3294.000	24.700	3300.000	26.300	3332.000	29.000	4900.000	.000	.000

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X1	1757.300	.000	.000	.000	50.000	50.000	50.000	.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1756.500	24.000	4041.000	4167.000	1900.000	1200.000	1660.000	.000	-.200	.000
GR	29.000	1500.000	29.000	1500.000	29.000	1500.000	29.000	1500.000	29.000	1500.000
GR	25.400	2614.000	23.200	2713.000	23.400	3068.000	22.200	3551.000	21.800	3806.000
GR	22.800	3894.000	31.800	3926.000	35.400	3974.000	25.200	4006.000	25.200	4034.000
GR	24.200	4041.000	8.400	4079.000	6.400	4087.000	4.400	4097.000	6.400	4106.000
GR	8.400	4114.000	24.200	4167.000	24.400	4195.000	30.800	4205.000	.000	.000
X1	1756.000	.000	.000	.000	1050.000	1000.000	1080.000	.000	.200	.000
X1	1755.900	.000	.000	.000	300.000	300.000	300.000	.000	.100	.000
BT	2.000	5750.000	4560.000	.000	.000	.000	.000	.000	.000	.000
X1	1755.500	14.000	3454.000	3583.000	1750.000	2000.000	2000.000	.000	.000	.000
GR	29.000	1000.000	25.000	3287.000	23.800	3454.000	15.800	3480.000	16.800	3497.000



GR	30.000	2271.000	26.000	2272.000	26.000	2273.000	27.000	2273.000	27.000	2273.000
GR	25.000	2323.000	27.400	2337.000	27.600	2355.000	25.000	2372.000	26.400	2378.000
GR	26.500	2591.000	26.300	2809.000	26.500	2986.000	25.300	3074.000	26.300	3106.000
GR	25.700	3135.000	25.900	3304.000	25.700	3429.000	24.000	3460.000	9.300	3487.000
GR	5.600	3507.000	9.200	3516.000	25.300	3537.000	30.700	3594.000	25.300	3620.000
GR	25.300	3655.000	31.700	3680.000	.000	.000	.000	.000	.000	.000
X1	1753.500	15.000	4459.000	4528.000	1880.000	1880.000	1880.000	.000	.000	.000
GR	31.000	3000.000	26.500	4076.000	25.500	4265.000	24.900	4376.000	25.900	4455.000
GR	23.600	4459.000	11.200	4480.000	9.200	4495.000	10.900	4505.000	24.700	4528.000
GR	25.500	4531.000	25.500	4532.000	25.700	4584.000	26.000	4790.000	31.000	4798.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1753.400	.000	.000	.000	100.000	100.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	24.500	25.300	.000
SB	1.000	1.560	2.900	.000	27.100	4.700	682.000	1.600	10.000	10.000
X1	1753.300	.000	.000	.000	28.000	28.000	28.000	.000	.000	.000
X2	.000	.000	1.000	24.800	25.900	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	24.500	25.300	.000
BT	9.000	3674.000	26.700	.000	4115.000	26.100	.000	4380.000	24.500	.000
BT	4455.000	25.900	.000	4531.000	25.900	.000	4628.000	25.300	.000	4728.000

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BT	25.300	.000	4804.000	24.300	.000	4992.000	26.300	.000	.000	.000
X1	1753.200	.000	.000	.000	50.000	50.000	50.000	.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1753.000	15.000	4459.000	4528.000	300.000	300.000	300.000	.000	.000	.000
GR	31.000	4075.000	26.500	4076.000	25.500	4265.000	24.900	4376.000	25.900	4455.000
GR	23.600	4459.000	11.200	4480.000	9.200	4495.000	10.900	4505.000	24.700	4528.000
GR	25.500	4531.000	25.500	4532.000	25.700	4584.000	26.000	4790.000	31.000	4798.000
X1	1752.300	14.000	4459.000	4528.000	1100.000	1100.000	1100.000	.000	.000	.000
GR	32.500	2900.000	27.100	2920.000	26.900	4076.000	26.000	4265.000	25.400	4376.000
GR	26.400	4455.000	24.100	4459.000	11.700	4480.000	9.700	4495.000	11.400	4505.000
GR	25.200	4528.000	26.000	4531.000	25.700	4584.000	31.000	4700.000	.000	.000
NC	.000	.000	.000	.600	.800	.000	.000	.000	.000	.000
X1	1752.200	11.000	1350.000	1440.000	1360.000	1510.000	1410.000	.000	.000	.000
GR	37.000	1000.000	27.000	1030.000	24.800	1350.000	14.800	1380.000	11.500	1390.000
GR	10.800	1395.000	10.000	1400.000	11.500	1410.000	25.400	1440.000	27.000	1760.000
GR	37.000	1800.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1752.100	15.000	3570.000	3658.000	250.000	250.000	250.000	.000	.000	.000
GR	37.700	1000.000	37.100	3000.000	37.100	3500.000	30.400	3516.000	24.800	3570.000
GR	17.300	3583.000	13.500	3593.000	12.600	3603.000	11.700	3606.000	11.500	3609.000
GR	10.000	3619.000	11.500	3629.000	25.400	3658.000	37.100	3730.000	37.100	5500.000
X1	1752.000	14.000	4675.000	4763.000	350.000	350.000	300.000	.000	.000	.000
GR	37.000	4300.000	30.000	4340.000	27.000	4646.000	24.800	4675.000	17.300	4688.000
GR	13.500	4698.000	12.600	4798.000	11.700	4711.000	11.500	4714.000	10.000	4724.000
GR	11.500	4734.000	25.400	4763.000	26.500	4960.000	37.000	5000.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1751.300	20.000	4678.000	4760.000	1050.000	1500.000	850.000	.000	.000	.000
GR	32.000	2400.000	32.000	2400.000	32.000	2400.000	32.000	2400.000	32.000	2400.000
GR	28.600	3990.000	28.600	3997.000	28.400	4165.000	26.200	4281.000	28.800	4425.000
GP	28.800	4533.000	28.000	4621.000	27.200	4646.000	26.600	4678.000	11.500	4700.000
GR	9.600	4713.000	11.700	4724.000	26.300	4760.000	27.000	5780.000	32.000	6760.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1751.700	.000	.000	.000	100.000	100.000	100.000	.000	.000	.000



X3	10.000	.000	.000	.000	.000	.000	.000	.000	26.000	26.000	.000
SB	1.000	1.560	2.900	.000	20.800	6.300	653.000	2.000	11.000	11.000	
X1	1751.600	.000	.000	.000	18.000	18.000	18.000	.000	.000	.000	.000
X2	.000	.000	1.000	26.400	27.000	.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	27.000	27.000	27.000	.000
BT	4.000	4579.000	27.000	.000	4682.000	27.200	.000	4763.000	27.000	27.000	.000
BT	4797.000	26.800	.000	.000	.000	.000	.000	.000	.000	.000	.000

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X1	1751.500	.000	.000	.000	50.000	50.000	50.000	.000	.100	.000	
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000	.000
X1	1751.300	25.000	3345.000	3416.000	1480.000	1530.000	1530.000	.000	.000	.000	.000
GR	32.000	1345.000	32.000	1345.000	32.000	1345.000	32.000	1345.000	32.000	1345.000	.000
GR	28.600	2988.000	25.400	3001.000	28.000	3012.000	26.600	3201.000	27.800	3279.000	.000
GR	26.100	3345.000	12.900	3369.000	11.500	3381.000	12.900	3397.000	25.200	3416.000	.000
GR	25.200	3425.000	25.400	3429.000	26.600	3529.000	26.400	3696.000	27.400	3981.000	.000
GR	28.200	4192.000	28.800	4464.000	29.800	4726.000	28.200	4753.000	33.400	4775.000	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000	.000
BT	2.000	4040.000	3120.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1751.200	23.000	3328.000	3432.000	100.000	100.000	100.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	29.000	29.000	29.000	.000
GR	32.000	1345.000	32.000	1345.000	32.000	1345.000	32.000	1345.000	32.000	1345.000	.000
GR	28.600	2988.000	25.400	3001.000	28.000	3012.000	26.600	3201.000	27.800	3279.000	.000
GR	26.500	3328.000	14.000	3358.000	11.500	3381.000	13.200	3403.000	26.300	3432.000	.000
GR	26.600	3529.000	26.400	3696.000	27.400	3981.000	28.200	4192.000	28.800	4464.000	.000
GR	29.800	4726.000	28.200	4753.000	33.400	4775.000	.000	.000	.000	.000	.000

SB	1.000	1.560	2.600	.000	47.700	8.200	1042.000	2.000	13.200	13.300	
X1	1751.100	.000	.000	.000	36.000	36.000	36.000	.000	.000	.000	.000
X2	.000	.000	1.000	28.300	29.800	.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	29.200	29.200	29.200	.000
BT	5.000	3173.000	28.800	.000	3280.000	29.200	.000	3332.000	29.800	29.800	.000
BT	3433.000	29.800	.000	3506.000	29.200	.000	.000	.000	.000	.000	.000

X1	1751.000	25.000	3345.000	3416.000	80.000	80.000	80.000	.000	.000	.000	.000
GR	32.000	1345.000	32.000	1345.000	32.000	1345.000	32.000	1345.000	32.000	1345.000	.000
GR	28.600	2988.000	25.400	3001.000	28.000	3012.000	26.600	3201.000	27.800	3279.000	.000
GR	26.100	3345.000	12.900	3369.000	11.500	3381.000	12.900	3397.000	25.200	3416.000	.000
GR	25.200	3425.000	25.400	3429.000	26.600	3529.000	26.400	3696.000	27.400	3981.000	.000
GR	28.200	4192.000	28.800	4464.000	29.800	4726.000	28.200	4753.000	33.400	4775.000	.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000	.000
X1	1750.800	14.000	2700.000	2806.000	2400.000	1625.000	1820.000	.000	.000	.000	.000
GR	32.000	1000.000	32.000	1000.000	32.000	1000.000	32.000	1000.000	32.000	1000.000	.000
GR	31.000	1500.000	30.000	2297.000	26.800	2700.000	14.500	2747.000	11.400	2764.000	.000
GR	14.200	2787.000	26.200	2806.000	27.500	2990.000	32.300	3020.000	.000	.000	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000	.000
X1	1750.700	15.000	2674.000	2836.000	100.000	100.000	100.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	30.100	30.100	30.100	.000
GR	32.000	1000.000	32.000	1000.000	32.000	1000.000	32.000	1000.000	32.000	1000.000	.000
GR	31.000	1783.000	30.000	1933.000	27.000	2674.000	23.000	2736.000	13.200	2756.000	.000
GR	11.400	2764.000	13.000	2796.000	23.000	2815.000	27.000	2836.000	32.300	2850.000	.000

SB	1.150	1.560	2.600	.000	33.500	7.100	1010.000	2.500	12.500	12.500	
X1	1750.600	11.000	2674.000	2836.000	22.000	22.000	22.000	.000	.000	.000	.000
X2	.000	.000	1.000	28.000	32.300	.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	32.300	32.300	32.300	.000
BT	6.000	1783.000	32.900	.000	2253.000	32.700	.000	2674.000	32.300	32.300	.000
BT	2836.000	32.300	.000	3981.000	32.900	.000	4273.000	33.100	.000	.000	.000

GR	32.300	2660.000	30.000	2668.000	27.000	2674.000	23.000	2736.000	13.200	2756.000
GR	11.400	2764.000	13.000	2796.000	23.000	2815.000	27.000	2836.000	31.000	3850.000
GR	32.300	4200.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1750.500	.000	.000	.000	60.000	50.000	50.000	.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1750.400	16.000	2700.000	2806.000	500.000	450.000	450.000	.000	.000	.000
GR	33.000	1000.000	33.000	1000.000	33.000	1000.000	33.000	1000.000	33.000	1000.000
GR	32.300	2280.000	30.500	2290.000	30.000	2500.000	26.900	2700.000	14.600	2747.000
GR	11.500	2764.000	14.300	2787.000	26.300	2806.000	30.000	3050.000	31.200	3400.000
GR	33.000	4900.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1750.300	24.000	4806.000	4913.300	700.000	500.000	500.000	.819	.000	.000
GR	34.600	.000	34.600	2597.000	34.000	3126.000	32.400	3352.000	29.800	3370.000
GR	31.400	3397.000	31.000	3694.000	30.400	4045.000	30.400	4383.000	29.600	4627.000
GR	30.600	4681.000	31.600	4728.000	29.200	4804.000	28.100	4806.000	15.900	4842.600
GR	16.000	4862.000	16.000	4887.700	28.800	4913.300	29.200	4915.000	28.600	5207.000
GR	28.800	5359.000	30.000	5575.000	31.000	6363.000	33.000	7100.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1750.200	24.000	4809.000	4906.700	80.000	80.000	80.000	.819	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	31.200	30.700	.000
GR	34.600	.000	34.600	2597.000	34.000	3126.000	32.400	3352.000	29.800	3370.000
GR	31.400	3397.000	31.000	3694.000	30.400	4045.000	30.400	4383.000	29.600	4627.000
GR	30.600	4681.000	31.600	4728.000	29.200	4804.000	28.100	4809.000	15.000	4848.100
GR	13.800	4861.500	15.200	4878.600	27.800	4906.700	29.200	4914.000	28.600	5206.000
GR	28.800	5358.000	30.000	5574.000	31.000	6362.000	33.000	7100.000	.000	.000
SB	1.000	1.560	3.000	.000	18.800	5.100	651.000	2.000	15.500	15.500
X1	1750.100	.000	.000	.000	33.000	33.000	33.000	.000	.000	.000
X2	.000	.000	1.000	30.500	32.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	31.700	30.700	.000
BT	11.000	3151.000	32.700	.000	3444.000	31.300	.000	3729.000	31.500	.000
BT	3929.000	31.300	.000	4001.000	31.700	.000	4119.000	32.100	.000	4188.000
BT	31.900	.000	4259.000	30.700	.000	4407.000	30.500	.000	4848.000	30.700
BT	.000	5109.000	31.500	.000	.000	.000	.000	.000	.000	.000
X1	1750.000	24.000	4806.000	4913.300	60.000	60.000	60.000	.819	.000	.000
SR	34.600	.000	34.600	2597.000	34.000	3126.000	32.400	3352.000	29.800	3370.000
GR	31.400	3397.000	31.000	3694.000	30.400	4045.000	30.400	4383.000	29.600	4627.000
GR	30.600	4681.000	31.600	4728.000	29.200	4804.000	28.100	4806.000	15.900	4842.600
GR	13.800	4862.100	15.000	4887.700	28.800	4913.300	29.200	4915.000	28.600	5207.000
GR	28.800	5359.000	30.000	5575.000	31.000	6363.000	33.000	7100.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1749.900	.000	.000	.000	300.000	300.000	300.000	.000	.100	.000
X1	1749.000	17.000	3511.000	3611.000	2150.000	2700.000	2310.000	.000	.000	.000
GR	34.600	2927.000	35.200	3138.000	33.600	3292.000	31.200	3413.000	32.800	3488.000
GR	30.200	3511.000	18.600	3527.000	16.600	3546.000	14.700	3555.000	16.600	3563.000
GR	18.600	3572.000	30.200	3611.000	32.200	3651.000	29.800	3737.000	31.000	3848.000
GR	34.800	4107.000	35.200	4880.000	.000	.000	.000	.000	.000	.000

BT	2.000	3900.000	3010.000	.000	.000	.000	.000	.000	.000	.000
X1	1748.300	17.000	3314.000	3390.000	2600.000	2600.000	2700.000	.000	.000	.000
GR	34.400	1935.000	34.400	1936.000	34.400	1937.000	30.600	2546.000	29.600	2904.000
GR	20.800	2057.000	21.800	2155.000	28.800	3302.000	27.900	3214.000	20.600	3331.000

GR	15.800	3353.000	20.800	3378.000	30.300	3390.000	32.800	3402.000	36.400	3463.000
GR	36.600	3674.000	36.800	3975.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1748.200	17.000	3310.000	3388.000	100.000	100.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	30.900	33.200	.000
GR	34.400	1935.000	34.400	1936.000	34.400	1937.000	30.600	2546.000	29.600	2904.000
GR	29.800	3057.000	31.800	3155.000	28.800	3302.000	29.000	3310.000	20.600	3331.000
GR	15.800	3353.000	18.400	3366.000	28.900	3388.000	32.800	3402.000	36.400	3465.000
GR	36.600	3674.000	36.800	3975.000	.000	.000	.000	.000	.000	.000

SB	1.050	1.560	2.800	.000	22.800	5.800	855.000	2.000	15.800	15.800
X1	1748.100	.000	.000	.000	35.000	35.000	35.000	.000	.000	.000
X2	.000	.000	1.000	32.600	33.900	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	30.900	33.900	.000
BT	11.000	1944.000	34.700	.000	2185.000	34.300	.000	2533.000	31.900	.000
BT	2851.000	30.900	.000	3091.000	30.900	.000	3199.000	32.300	.000	3307.000
BT	33.900	.000	3389.000	33.900	.000	3547.000	35.500	.000	3688.000	36.300
BT	.000	4084.000	35.500	.000	.000	.000	.000	.000	.000	.000

NC	.070	.070	.070	.000	.000	.000	.000	.000	.000	.000
X1	1748.000	17.000	3314.000	3390.000	55.000	55.000	55.000	.000	.000	.000
GR	34.400	1935.000	34.400	1936.000	34.400	1937.000	30.600	2546.000	29.600	2904.000
GR	29.800	3057.000	31.800	3155.000	28.800	3302.000	27.900	3314.000	20.600	3331.000
GR	15.800	3353.000	20.800	3378.000	30.300	3390.000	32.800	3402.000	36.400	3465.000
GR	36.600	3674.000	36.800	3975.000	.000	.000	.000	.000	.000	.000

NC	.070	.070	.070	.100	.300	.000	.000	.000	.000	.000
X1	1747.000	19.000	2829.000	2925.000	3350.000	3100.000	3350.000	.866	.000	.000
GR	39.200	1658.000	39.200	1659.000	39.200	1660.000	39.200	1661.000	38.200	1863.000
GR	35.000	2103.000	34.800	2314.000	32.400	2587.000	35.200	2767.000	32.600	2829.000
GR	19.400	2860.000	18.100	2867.000	16.900	2875.000	16.900	2877.000	18.100	2885.000
GR	19.400	2892.000	32.600	2925.000	35.800	3062.000	36.000	3222.000	.000	.000

X1	1746.000	18.000	2028.000	2105.000	1100.000	1350.000	1190.000	.000	.000	.000
GR	39.200	1275.000	39.200	1276.000	37.500	1572.000	33.800	1858.000	32.000	2028.000
GR	19.600	2053.000	18.400	2060.000	17.300	2067.000	17.300	2069.000	18.400	2076.000
GR	19.600	2083.000	33.000	2105.000	31.400	2449.000	33.000	2506.000	34.200	2777.000
GR	35.600	3123.000	36.600	3529.000	37.600	3655.000	.000	.000	.000	.000

NC	.050	.050	.070	.000	.000	.000	.000	.000	.000	.000
X1	1745.000	8.000	3640.000	3752.000	1950.000	1900.000	1860.000	.000	.000	.000
GR	45.600	3578.000	44.400	3617.000	41.800	3640.000	20.000	3685.000	18.600	3700.000
GR	20.000	3715.000	44.200	3752.000	43.800	3921.000	.000	.000	.000	.000

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BT	2.000	3590.000	2650.000	.000	.000	.000	.000	.000	.000	.000
X1	1744.000	28.000	3269.000	3357.000	1650.000	1600.000	1580.000	.000	.000	.000
GR	40.000	1370.000	40.000	1370.000	40.000	1370.000	40.000	1370.000	40.000	1370.000
GR	37.600	2225.000	37.200	2374.000	36.800	2548.000	36.600	2602.000	36.600	2831.000
GR	37.200	2933.000	39.800	3139.000	39.000	3211.000	37.800	3269.000	20.000	3306.000
GR	19.400	3211.000	18.900	3317.000	18.400	3319.000	18.900	3321.000	19.400	3326.000
GR	20.000	3331.000	38.600	3357.000	29.200	3409.000	36.200	3866.000	35.800	3921.000
GR	35.800	3946.000	38.200	4007.000	42.000	6000.000	.000	.000	.000	.000

X1	1743.000	20.000	2743.000	2818.000	1780.000	1880.000	1830.000	.000	.000	.000
GR	39.600	2145.000	39.600	2146.000	29.600	2147.000	39.600	2148.000	37.600	2173.000
GR	37.600	2292.000	37.000	2423.000	35.600	2487.000	35.600	2631.000	35.400	2743.000
GR	22.200	2764.000	20.600	2769.000	19.000	2775.000	19.000	2777.000	20.600	2782.000
GR	22.200	2788.000	25.800	2818.000	38.000	2866.000	37.800	3365.000	42.500	3769.000

NC	.100	.100	.070	.000	.000	.000	.000	.000	.000	.000
X1	1742.000	10.000	1070.000	2052.000	1800.000	1600.000	1570.000	.000	.000	.000

SR	40.000	4298.000	39.000	4329.000	37.000	4350.000	38.000	4381.000	37.000	4412.000
GR	37.900	1932.000	36.700	1970.000	22.900	2014.000	19.500	2026.000	19.500	2028.000
GR	22.900	2040.000	37.500	2063.000	39.900	2146.000	40.300	2195.000	38.900	2277.000
GR	40.100	2468.000	40.900	2737.000	40.900	2922.000	42.700	2955.000	.000	.000
BT	2.000	3280.000	2290.000	.000	.000	.000	.000	.000	.000	.000
X1	1741.800	15.000	1250.000	1352.000	1335.000	1335.000	1335.000	.000	.000	.000
GR	42.000	750.000	42.000	750.000	42.000	750.000	42.000	750.000	42.000	750.000
GR	41.000	1000.000	40.000	1130.000	39.400	1250.000	24.700	1288.000	20.000	1306.000
GR	25.500	1324.000	39.400	1352.000	40.000	1780.000	41.000	2000.000	42.000	4800.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1741.700	18.000	1250.000	1352.000	60.000	60.000	60.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	40.500	40.500	.000
GR	42.000	.000	42.000	.000	42.000	.000	42.000	.000	42.000	.000
GR	41.000	1000.000	40.000	1130.000	38.900	1260.000	32.500	1276.000	24.700	1288.000
GR	20.000	1306.000	24.700	1321.000	32.200	1335.000	38.900	1352.000	39.500	1467.000
GR	39.700	1648.000	41.000	2000.000	42.000	4800.000	.000	.000	.000	.000
SB	1.250	1.560	2.600	.000	17.600	2.800	905.000	2.000	21.000	21.000
X1	1741.600	.000	.000	.000	37.000	37.000	37.000	.000	.000	.000
X2	.000	.000	1.000	38.900	42.100	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	42.100	42.100	.000
BT	10.000	435.000	42.100	.000	626.000	41.900	.000	932.000	41.500	.000
BT	1073.000	41.100	.000	1200.000	41.100	.000	1260.000	41.300	.000	1352.000
BT	41.300	.000	1467.000	40.300	.000	1648.000	39.700	.000	1895.000	39.500
BT	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1741.500	15.000	1250.000	1352.000	60.000	60.000	60.000	.000	.000	.000
GR	42.000	900.000	42.000	900.000	42.000	900.000	42.000	900.000	42.000	900.000
GR	41.000	1000.000	40.000	1130.000	39.400	1250.000	24.700	1288.000	20.000	1306.000
GR	25.500	1324.000	39.400	1352.000	40.000	1780.000	41.000	2000.000	42.000	4700.000

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X1	1741.300	15.000	1150.000	1238.000	80.000	80.000	80.000	.000	.000	.000
GR	42.000	900.000	42.000	900.000	42.000	900.000	42.000	900.000	42.000	900.000
GR	41.000	1000.000	38.700	1150.000	25.700	1177.000	21.700	1200.000	25.600	1220.000
GR	39.200	1238.000	39.500	1300.000	39.800	1750.000	41.000	1770.000	42.000	4700.000
X1	1741.200	.000	.000	.000	50.000	50.000	50.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	40.300	40.300	.000
SB	1.250	1.560	2.600	.000	37.700	2.800	879.000	1.250	22.500	22.500
X1	1741.100	.000	.000	.000	37.000	37.000	37.000	.000	.000	.000
X2	.000	.000	1.000	38.500	42.100	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	42.100	42.100	.000
BT	11.000	325.000	41.300	.000	521.000	41.500	.000	715.000	41.500	.000
BT	931.000	41.100	.000	1050.000	41.100	.000	1150.000	41.300	.000	1150.000
BT	42.100	.000	1238.000	42.100	.000	1238.000	41.300	.000	1401.000	40.100
BT	.000	1575.000	39.900	.000	.000	.000	.000	.000	.000	.000
X1	1741.000	.000	.000	.000	70.000	130.000	100.000	.000	.000	.000
X1	174103.000	14.000	1003.000	1108.000	25.000	180.000	70.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	39.000	39.000	.000
GR	42.000	800.000	42.000	800.000	42.000	800.000	42.000	800.000	42.000	800.000
GR	41.000	983.000	38.700	1003.000	25.700	1016.000	21.700	1056.000	25.500	1094.000
GR	39.200	1108.000	39.800	1480.000	41.000	1500.000	42.000	3100.000	.000	.000
SB	1.000	1.560	2.700	.000	56.500	7.500	1240.000	2.000	22.700	22.700
X1	174102.000	.000	.000	.000	40.000	40.000	40.000	.000	.000	.000
X2	.000	.000	1.000	38.200	39.700	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	39.900	39.900	.000

BT	5.000	778.000	40.700	.000	521.000	600.000	.000	688.000	40.100	.000
BT	1000.000	39.900	.000	1103.000	39.700	.000	1441.000	39.700	.000	.000
X1	174101.000	34.000	3058.000	3146.000	50.000	50.000	50.000	.000	.000	.000
GR	42.100	2533.000	42.100	2534.000	42.100	2535.000	42.100	2536.000	42.100	2537.000
GR	40.900	2592.000	39.100	2686.000	40.900	2705.000	41.900	2847.000	40.900	2929.000
GR	39.700	2962.000	40.500	2998.000	39.700	3046.000	38.700	3058.000	25.700	3085.000
GR	21.700	3108.000	25.600	3128.000	39.200	3146.000	39.900	3227.000	38.700	3380.000
GR	38.500	3449.000	38.500	3523.000	38.500	3614.000	38.500	3701.000	38.300	3805.000
GR	38.200	3984.000	39.000	4019.000	37.600	4037.000	38.400	4186.000	39.200	4387.000
GR	38.400	4497.000	39.800	4585.000	40.400	4747.000	42.000	6100.000	.000	.000
NC	.100	.100	.070	.100	.300	.000	.000	.000	.000	.000
X1	1740.000	18.000	3384.000	3460.000	2720.000	2550.000	2680.000	.000	.000	.000
GR	45.100	2540.000	43.900	2751.000	43.700	2935.000	42.900	2954.000	43.500	3148.000
GR	42.100	3235.000	41.500	3260.000	43.100	3334.000	41.500	3366.000	43.100	3384.000
GR	23.900	3418.000	23.500	3420.000	23.000	3423.000	23.000	3425.000	23.500	3428.000
GR	23.900	3430.000	42.700	3460.000	43.500	5560.000	.000	.000	.000	.000

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X1	1739.400	19.000	3520.000	3597.000	1050.000	700.000	700.000	.000	.000	.000
GR	45.000	2320.000	45.000	2320.000	45.000	2320.000	45.000	2320.000	45.000	2320.000
GR	43.500	2660.000	43.500	2661.000	43.100	2811.000	42.100	3074.000	40.500	3234.000
GR	40.700	3321.000	41.100	3520.000	26.200	3541.000	25.000	3564.000	26.200	3577.000
GR	41.000	3597.000	41.700	3599.000	43.100	3671.000	45.000	5800.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1739.300	.000	.000	.000	90.000	90.000	90.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	41.000	41.000	.000
SB	1.050	1.560	2.600	.000	34.600	4.700	710.000	1.250	25.500	25.500
X1	1739.200	.000	.000	.000	50.000	50.000	50.000	.000	.000	.000
X2	.000	.000	1.000	40.200	41.800	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	41.800	41.800	.000
BT	2.000	3520.000	41.800	.000	3597.000	41.800	.000	.000	.000	.000

X1	1739.100	.000	.000	.000	50.000	50.000	50.000	.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1738.500	12.000	1400.000	1515.000	4500.000	1270.000	1480.000	.000	.000	.000
GR	45.500	1000.000	42.000	1030.000	41.000	1100.000	40.000	1370.000	36.600	1400.000
GR	29.500	1415.000	25.500	1455.000	29.300	1486.000	39.100	1515.000	40.000	1570.000
GR	43.000	2300.000	45.000	2500.000	.000	.000	.000	.000	.000	.000
NC	.100	.100	.070	.300	.500	.000	.000	.000	.000	.000
X1	1738.400	9.000	1400.000	1515.000	500.000	500.000	500.000	.000	.000	.000
GR	45.700	1300.000	36.600	1400.000	29.500	1415.000	25.500	1455.000	29.300	1486.000
GR	39.100	1515.000	40.000	1570.000	43.000	1800.000	45.000	2000.000	.000	.000
X1	1738.300	11.000	1392.000	1515.000	350.000	350.000	350.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	43.000	43.000	.000
GR	45.400	1380.000	39.000	1392.000	31.000	1434.000	26.200	1448.000	25.500	1455.000
GR	28.600	1480.000	36.000	1498.000	39.100	1515.000	40.000	1570.000	42.000	1850.000
GR	45.000	2000.000	.000	.000	.000	.000	.000	.000	.000	.000

SB	1.000	1.560	2.600	.000	25.900	13.000	900.000	33.300	26.000	26.000
X1	1738.200	9.000	1392.000	1515.000	40.000	40.000	40.000	.000	.000	.000
X2	.000	.000	1.000	40.600	45.400	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	45.400	45.400	.000
BT	8.000	385.000	45.600	.000	828.000	45.800	.000	1187.000	45.400	.000
BT	1369.000	45.400	.000	1528.000	45.400	.000	1771.000	46.000	.000	2058.000
BT	46.600	.000	2405.000	46.800	.000	.000	.000	.000	.000	.000
GR	45.000	1000.000	39.000	1392.000	31.000	1434.000	26.200	1448.000	25.500	1455.000

SR	29.300	1486.000	39.100	1515.000	40.000	1570.000	41.000	1600.000	45.800	1670.000
X1	1738.100	15.000	1400.000	1515.000	250.000	100.000	180.000	.000	.000	.000
GR	45.000	.000	45.000	.000	45.000	.000	45.000	.000	45.000	.000
GR	42.700	1170.000	40.000	1380.000	36.500	1400.000	29.500	1415.000	25.500	1455.000
GR	29.300	1486.000	39.100	1515.000	40.000	1570.000	41.000	1600.000	45.800	1670.000

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X1	1737.600	15.000	1016.000	1095.000	260.000	260.000	260.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	42.000	42.000	.000
GR	45.000	.000	45.000	.000	45.000	.000	45.000	.000	45.000	.000
GR	42.500	1000.000	35.300	1016.000	22.800	1052.000	30.000	1090.000	35.500	1091.000
GR	36.000	1095.000	40.000	1115.000	41.000	1180.000	41.500	1250.000	45.600	1300.000

SB	1.000	1.560	2.800	.000	16.300	4.100	878.000	2.000	23.400	23.400
X1	1737.500	16.000	1016.000	1095.000	50.000	50.000	50.000	.000	.000	.000
X2	.000	.000	1.000	41.400	42.700	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	42.700	42.700	.000
BT	12.000	360.000	43.100	.000	561.000	42.700	.000	757.000	41.500	.000
BT	895.000	41.700	.000	1017.000	42.700	.000	1094.000	42.700	.000	1209.000
BT	42.500	.000	1365.000	43.300	.000	1472.000	44.100	.000	1488.000	43.300
BT	.000	1523.000	45.500	.000	1710.000	45.100	.000	.000	.000	.000
GR	45.000	.000	45.000	.000	45.000	.000	45.000	.000	45.000	.000
GR	42.000	590.000	40.000	1000.000	35.300	1016.000	22.800	1052.000	30.000	1090.000
GR	35.500	1091.000	36.000	1095.000	40.000	1115.000	41.000	1160.000	42.600	1200.000
GR	45.600	1300.000	.000	.000	.000	.000	.000	.000	.000	.000

NC	.100	.100	.070	.000	.000	.000	.000	.000	.000	.000
X1	1737.400	15.000	1280.000	1338.000	400.000	350.000	320.000	.000	.000	.000
GR	45.000	400.000	45.000	400.000	45.000	400.000	45.000	400.000	45.000	400.000
GR	42.000	1000.000	40.000	1240.000	37.800	1280.000	32.000	1292.000	25.000	1305.000
GR	32.200	1328.000	38.200	1338.000	40.000	1350.000	41.000	1570.000	45.500	1590.000

GT	2.000	3320.000	2320.000	.000	.000	.000	.000	.000	.000	.000
X1	1737.300	13.000	1200.000	1311.000	760.000	560.000	700.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	43.700	43.700	.000
GR	45.000	500.000	45.000	500.000	45.000	500.000	45.000	500.000	45.000	500.000
GR	42.000	1000.000	40.000	1190.000	39.300	1200.000	31.000	1228.000	27.900	1255.000
GR	32.100	1283.000	41.700	1311.000	46.000	1350.000	.000	.000	.000	.000

SB	1.250	1.560	2.600	.000	23.200	3.500	864.000	3.000	28.100	28.100
X1	1737.200	16.000	4927.000	5038.000	270.000	120.000	160.000	.000	.000	.000
X2	.000	.000	1.000	42.100	45.200	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	45.200	45.600	.000
ET	5.600	825.000	44.000	.000	1199.000	45.200	.000	1318.000	45.600	.000
BT	1674.000	46.200	.000	2010.000	46.000	.000	.000	.000	.000	.000
GR	45.500	4228.000	43.800	4229.000	43.800	4230.000	43.800	4231.000	43.200	4417.000
GR	42.400	4555.000	42.800	4762.000	42.600	4885.000	39.300	4927.000	32.300	4942.000
GR	27.900	4982.000	32.100	5010.000	41.700	5038.000	43.200	5229.000	44.000	5448.000
GR	45.500	5520.000	.000	.000	.000	.000	.000	.000	.000	.000

X1	1737.100	.000	.000	.000	300.000	700.000	450.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	45.200	45.600	.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1736.700	19.000	1500.000	1591.000	680.000	450.000	500.000	.000	.000	.000
GR	46.000	900.000	46.000	900.000	46.000	900.000	46.000	900.000	46.000	900.000
GR	43.500	1000.000	40.000	1470.000	38.800	1500.000	32.800	1515.000	28.600	1558.000
GR	32.800	1577.000	38.000	1591.000	40.000	1600.000	40.500	1620.000	41.500	1650.000
GR	42.500	1675.000	43.500	1740.000	44.500	1830.000	46.000	1900.000	.000	.000

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NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1736.600	19.000	1470.000	1650.000	130.000	90.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	50.700	50.800	.000
GR	46.000	900.000	46.000	900.000	46.000	900.000	46.000	900.000	46.000	900.000
GR	43.500	1000.000	40.000	1470.000	38.800	1500.000	32.800	1515.000	28.600	1558.000
GR	32.800	1577.000	38.000	1591.000	40.000	1600.000	40.500	1620.000	41.500	1650.000
GR	42.500	1675.000	43.500	1740.000	44.500	1830.000	46.000	1900.000	.000	.000

SB	1.000	1.550	2.500	.000	56.200	17.300	1500.000	3.000	30.000	30.000
X1	1736.500	.000	.000	.000	20.000	20.000	20.000	.000	.000	.000
X2	.000	.000	1.000	46.800	48.700	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	50.900	50.100	.000
BT	4.000	990.000	51.900	.000	1445.000	50.900	.000	1651.000	50.100	.000
BT	1990.000	48.700	.000	.000	.000	.000	.000	.000	.000	.000

X1	1736.400	.000	.000	.000	150.000	150.000	150.000	.000	.000	.000
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NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1736.000	15.000	3369.000	3450.000	900.000	750.000	850.000	.000	.000	.000
GR	46.000	2304.000	44.600	2349.000	42.800	2391.000	41.600	2846.000	41.600	3134.000
GR	40.200	3369.000	32.800	3384.000	30.400	3392.000	29.000	3405.000	30.400	3417.000
GR	32.800	3425.000	39.600	3450.000	40.600	3664.000	45.200	3704.000	46.000	3774.000

X1	1735.800	17.000	2400.000	2464.000	400.000	370.000	360.000	.000	.000	.000
GR	46.000	1100.000	46.000	1100.000	46.000	1100.000	46.000	1100.000	46.000	1100.000
GR	44.600	1170.000	43.000	1500.000	41.500	2000.000	40.000	2340.000	37.100	2400.000
GR	34.100	2413.000	29.600	2430.000	34.200	2450.000	40.000	2464.000	40.500	2530.000
ER	41.000	2580.000	46.000	2600.000	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1735.700	18.000	2400.000	2464.000	350.000	330.000	350.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	41.500	41.500	.000
GR	46.000	1000.000	46.000	1000.000	46.000	1000.000	46.000	1000.000	46.000	1000.000
GR	44.300	1070.000	43.000	1100.000	42.000	1800.000	40.000	2350.000	37.100	2400.000
GR	34.100	2413.000	29.600	2430.000	34.200	2450.000	40.000	2464.000	42.000	2470.000
GR	43.600	2480.000	45.600	2500.000	46.000	3000.000	.000	.000	.000	.000

SB	1.000	1.550	2.500	.000	24.100	5.600	410.000	3.000	30.500	30.500
X1	1735.600	22.000	2400.000	2464.000	42.000	42.000	42.000	.000	.000	.000
X2	.000	.000	1.000	39.500	43.400	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	41.500	41.500	.000
BT	6.000	1575.000	44.800	.000	2070.000	44.000	.000	2361.000	43.400	.000
BT	2503.000	43.600	.000	2799.000	44.200	.000	3575.000	46.000	.000	.000
GR	46.000	1000.000	46.000	1000.000	46.000	1000.000	46.000	1000.000	46.000	1000.000
GR	44.300	1070.000	43.000	1100.000	42.000	1800.000	40.000	2350.000	43.400	2360.000
GR	43.400	2385.000	37.100	2400.000	34.100	2413.000	29.600	2430.000	34.200	2450.000
GR	46.000	2464.000	41.500	2510.000	42.500	2570.000	43.500	2620.000	44.500	2730.000
GR	45.000	2962.000	46.000	3412.000	.000	.000	.000	.000	.000	.000

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X1	1735.500	17.000	2400.000	2464.000	210.000	200.000	200.000	.000	.000	.000
GR	46.000	1000.000	46.000	1000.000	46.000	1000.000	46.000	1000.000	46.000	1000.000
GR	43.800	2290.000	41.000	2310.000	37.100	2400.000	34.100	2413.000	29.600	2430.000
GR	34.200	2450.000	40.000	2464.000	41.500	2690.000	42.500	2810.000	43.500	2910.000
GR	44.500	3130.000	46.000	4200.000	.000	.000	.000	.000	.000	.000

X1	1735.300	17.000	3650.000	3731.000	510.000	1200.000	480.000	.000	.000	.000
GR	46.000	2000.000	46.000	2000.000	46.000	2000.000	46.000	2000.000	46.000	2000.000
GR	45.600	3312.000	43.200	3345.000	41.600	3650.000	35.600	3674.000	28.200	3691.000
GR	35.100	3722.000	39.100	3731.000	40.200	3770.000	40.500	4040.000	41.500	4220.000
GR	42.500	4730.000	46.000	7100.000	.000	.000	.000	.000	.000	.000

X1	1735.200	18.000	3663.000	3729.000	100.000	100.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	42.900	41.700	.000
GR	46.000	2000.000	46.000	2000.000	46.000	2000.000	46.000	2000.000	46.000	2000.000
GR	45.500	3320.000	43.200	3345.000	41.600	3650.000	38.200	3663.000	35.600	3674.000
GR	28.200	3691.000	35.100	3722.000	38.200	3729.000	40.200	3770.000	40.500	4040.000
GR	41.500	4220.000	42.500	4730.000	46.000	7100.000	.000	.000	.000	.000
SB	1.000	1.560	2.600	.000	25.500	5.000	576.000	2.000	29.500	29.500
X1	1735.100	.000	.000	.000	40.000	40.000	40.000	.000	.000	.000
X2	.000	.000	1.000	42.100	43.700	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	43.800	43.800	.000
BT	7.000	3341.000	45.900	.000	3448.000	43.700	.000	3663.000	43.700	.000
BT	3729.000	43.700	.000	3825.000	41.700	.000	4155.000	42.500	.000	5080.000
BT	42.900	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1735.000	20.000	3650.000	3731.000	160.000	150.000	130.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	46.000	1900.000	46.000	1900.000	46.000	1900.000	46.000	1900.000	46.000	1900.000
GR	45.600	3312.000	43.200	3337.000	41.600	3650.000	35.600	3674.000	28.200	3691.000
GR	35.100	3722.000	39.100	3731.000	40.200	3770.000	40.600	3812.000	39.600	3863.000
GR	41.600	4105.000	41.800	4460.000	42.200	4765.000	43.200	5177.000	46.000	7100.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1734.000	22.000	3573.000	3655.000	1165.000	2000.000	1310.000	.000	.000	.000
GR	46.500	2800.000	46.500	2800.000	46.500	2800.000	46.500	2800.000	46.500	2800.000
GR	45.000	2835.000	41.500	2855.000	42.200	3147.000	41.000	3397.000	41.600	3543.000
GR	40.200	3573.000	32.200	3613.000	31.200	3620.000	30.540	3626.000	31.200	3631.000
GR	32.200	3638.000	40.600	3655.000	41.400	4049.000	42.800	4756.000	44.200	5108.000
GR	45.800	5429.000	46.500	5700.000	.000	.000	.000	.000	.000	.000
X1	1733.400	20.000	3380.000	3462.000	1300.000	1830.000	1620.000	.000	.000	.000
GR	46.400	3257.000	46.400	3258.000	46.400	3259.000	46.400	3260.000	46.400	3285.000
GR	40.200	3304.000	40.200	3350.000	40.000	3380.000	32.200	3420.000	31.200	3427.000
GR	30.500	3433.000	31.200	3438.000	32.200	3445.000	40.600	3462.000	40.600	3750.000
GR	41.500	3880.000	42.500	4060.000	43.500	4400.000	44.500	4630.000	46.600	5070.000

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NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
BT	2.000	3370.000	2350.000	.000	.000	.000	.000	.000	.000	.000
X1	1733.300	20.000	3318.000	3359.000	600.000	750.000	580.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	40.000	40.000	.000
GR	46.400	3257.000	46.400	3258.000	46.400	3259.000	46.400	3260.000	46.400	3285.000
GR	44.000	3300.000	41.000	3305.000	40.400	3311.000	38.000	3318.000	36.900	3321.000
GR	34.000	3338.000	35.500	3359.000	36.800	3376.000	39.600	3386.000	40.500	3950.000
GR	41.500	4145.000	42.500	4350.000	43.500	4610.000	44.500	4890.000	46.600	5300.000
SB	1.000	1.560	2.700	.000	23.400	1.900	262.000	.500	34.500	34.500
X1	1733.200	22.000	3318.000	3359.000	75.000	75.000	75.000	.000	.000	.000
X2	.000	.000	1.000	44.400	46.400	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	40.000	40.000	.000
BT	4.000	2336.000	46.200	.000	3316.000	46.400	.000	3359.000	46.400	.000
BT	4336.000	46.600	.000	.000	.000	.000	.000	.000	.000	.000
GR	47.000	1400.000	47.000	1400.000	47.000	1400.000	47.000	1400.000	47.000	1400.000
GR	44.500	1500.000	43.600	1910.000	44.000	1948.000	44.000	1986.000	43.200	2016.000
GR	43.000	2436.000	42.200	2965.000	40.600	3230.000	38.000	3318.000	36.900	3321.000
GR	34.000	3338.000	35.500	3359.000	36.800	3376.000	39.600	3386.000	40.500	3445.000
GR	46.500	3465.000	47.000	3500.000	.000	.000	.000	.000	.000	.000
X1	1733.100	.000	.000	.000	100.000	100.000	100.000	.000	.000	.000
NC	.070	.070	.060	.100	.300	.000	.000	.000	.000	.000
X1	1733.100	20.000	3350.000	3420.000	1325.000	1385.000	1425.000	.000	.000	.000





X1	1729.400	16.000	2200.000	2258.000	720.000	7800.000	720.000	.000	.000	.000
GR	50.000	1000.000	50.000	1000.000	50.000	1000.000	50.000	1000.000	50.000	1000.000
GR	48.000	2176.000	46.500	2200.000	39.100	2213.000	33.000	2228.000	39.100	2237.000
GR	46.200	2258.000	46.200	2259.000	46.200	2260.000	46.200	2261.000	48.600	2744.000
GR	50.000	4600.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.070	.070	.060	.300	.500	.000	.000	.000	.000	.000
X1	1729.300	15.000	2200.000	2258.000	100.000	100.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	50.500	1000.000	50.500	1000.000	50.500	1000.000	50.500	1000.000	50.500	1000.000
GR	48.000	2176.000	46.500	2200.000	41.000	2207.000	39.100	2213.000	33.000	2228.000
GR	39.100	2237.000	41.000	2247.000	46.200	2258.000	48.600	2744.000	50.500	4600.000

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SB	1.000	1.560	2.900	.000	11.700	2.300	300.000	1.250	33.500	33.500
X1	1729.200	.000	.000	.000	23.000	23.000	23.000	.000	.000	.000
X2	.000	.000	1.000	45.700	47.600	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
BT	4.000	1761.000	48.000	.000	2204.000	47.600	.000	2512.000	47.600	.000
BT	2725.000	48.000	.000	.000	.000	.000	.000	.000	.000	.000

X1	1729.100	16.000	2200.000	2258.000	60.000	60.000	60.000	.000	.000	.000
GR	50.500	1000.000	50.500	1000.000	50.500	1000.000	50.500	1000.000	50.500	1000.000
GR	48.000	2176.000	46.500	2200.000	39.100	2213.000	33.000	2228.000	39.100	2237.000
GR	46.200	2258.000	46.200	2259.000	46.200	2260.000	46.200	2261.000	48.600	2744.000
GR	50.600	4600.000	.000	.000	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1728.300	15.000	2309.000	2366.000	1900.000	1950.000	1890.000	.000	.000	.000
GR	51.400	1000.000	49.000	1633.000	48.200	1961.000	44.000	2238.000	42.800	2309.000
GR	39.800	2318.000	38.500	2323.000	33.800	2337.000	38.500	2356.000	39.900	2359.000
GR	42.400	2366.000	43.200	2367.000	46.800	2500.000	51.600	2746.000	52.600	2968.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
BT	2.000	3240.000	2250.000	.000	.000	.000	.000	.000	.000	.000
X1	1728.200	15.000	2311.000	2363.000	100.000	100.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	46.800	46.800	.000
GR	51.400	1000.000	49.000	1633.000	48.200	1961.000	44.000	2238.000	43.500	2311.000
GR	43.000	2316.000	38.000	2323.000	33.800	2337.000	37.500	2350.000	43.000	2363.000
GR	42.400	2366.000	43.200	2367.000	46.800	2500.000	51.600	2746.000	52.600	2968.000

SB	1.000	1.560	3.000	.000	16.200	3.200	346.000	1.500	34.500	34.500
X1	1728.100	.000	.000	.000	24.000	24.000	24.000	.000	.000	.000
X2	.000	.000	1.000	46.100	47.600	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	46.800	46.800	.000
BT	8.000	1659.000	51.200	.000	1801.000	50.800	.000	2149.000	46.800	.000
BT	2307.000	47.600	.000	2364.000	47.600	.000	2469.000	46.800	.000	2717.000
BT	51.600	.000	2824.000	53.000	.000	.000	.000	.000	.000	.000

X1	1728.000	15.000	2309.000	2366.000	65.000	65.000	65.000	.000	.000	.000
GR	51.400	1000.000	49.000	1633.000	48.200	1961.000	44.000	2238.000	42.800	2309.000
GR	39.800	2318.000	38.500	2323.000	33.800	2337.000	38.500	2356.000	39.900	2359.000
GR	42.400	2366.000	43.200	2367.000	46.800	2500.000	51.600	2746.000	52.600	2968.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1727.000	16.000	3430.000	3489.000	1550.000	1600.000	1550.000	.000	.000	.000
GR	50.800	2905.000	49.000	3114.000	44.800	3295.000	45.200	3430.000	36.400	3457.000
GR	35.700	3460.000	35.000	3465.000	34.700	3468.000	35.000	3471.000	35.700	3475.000
GR	36.400	3478.000	43.600	3489.000	48.000	3804.000	49.400	4127.000	50.000	4470.000
GR	51.600	4525.000	.000	.000	.000	.000	.000	.000	.000	.000

X1	1728.800	16.000	1550.000	1712.000	1210.000	1100.000	1155.000	.000	.000	.000
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GR	51.000	651.000	51.000	650.000	51.000	650.000	51.000	650.000	51.000	650.000
GR	50.000	1000.000	49.500	1300.000	45.900	1650.000	42.900	1656.000	36.800	1668.000
GR	35.700	1682.000	36.400	1697.000	43.800	1708.000	47.000	1713.000	49.500	1960.000
GR	51.500	2860.000	.000	.000	.000	.000	.000	.000	.000	.000

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NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1726.700	16.000	1655.000	1708.000	100.000	100.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	44.600	46.400	.000
GR	51.000	650.000	51.000	650.000	51.000	650.000	51.000	650.000	51.000	650.000
GR	50.000	1000.000	49.500	1300.000	45.900	1650.000	42.900	1656.000	36.800	1668.000
GR	35.700	1682.000	36.400	1697.000	43.800	1708.000	47.000	1713.000	49.500	1960.000
GR	51.500	2860.000	.000	.000	.000	.000	.000	.000	.000	.000

SB	1.000	1.560	2.900	.000	25.500	3.000	370.000	1.500	35.700	35.700
X1	1726.600	.000	.000	.000	18.000	18.000	18.000	.000	.000	.000
X2	.000	.000	1.000	45.600	46.800	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	44.600	46.800	.000
BT	10.000	1220.000	48.400	.000	1368.000	46.400	.000	1557.000	44.600	.000
BT	1617.000	45.400	.000	1637.000	46.800	.000	1709.000	46.800	.000	1787.000
BT	47.400	.000	1850.000	45.800	.000	1995.000	49.400	.000	2029.000	52.800
BT	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

X1	1726.500	16.000	1650.000	1713.000	50.000	50.000	50.000	.000	.000	.000
GR	51.000	650.000	51.000	650.000	51.000	650.000	51.000	650.000	51.000	650.000
GR	50.000	1000.000	49.500	1300.000	45.900	1650.000	42.900	1656.000	36.800	1668.000
GR	35.700	1682.000	36.400	1697.000	43.800	1708.000	47.000	1713.000	49.500	1960.000
GR	51.500	2860.000	.000	.000	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1726.300	17.000	2457.000	2522.000	900.000	1050.000	960.000	.000	.000	.000
GR	52.000	1653.000	51.000	1654.000	51.000	1655.000	48.800	1906.000	46.600	2110.000
GR	43.000	2457.000	36.900	2478.000	35.100	2493.000	36.400	2499.000	36.800	2507.000
GR	44.600	2512.000	44.800	2522.000	45.800	2561.000	46.200	2847.000	48.800	3033.000
GR	49.400	3234.000	52.000	3300.000	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1726.200	20.000	2457.000	2524.000	90.000	90.000	90.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	47.400	47.400	.000
GR	52.000	1653.000	51.000	1654.000	51.000	1655.000	48.900	1959.000	47.900	2189.000
GR	48.300	2457.000	43.000	2457.000	36.900	2478.000	35.100	2493.000	36.400	2499.000
GR	36.800	2507.000	44.600	2512.000	44.800	2522.000	48.300	2524.000	47.100	2641.000
GR	47.100	2836.000	48.700	2959.000	48.800	3033.000	49.400	3234.000	52.000	3300.000

SB	1.000	1.560	3.000	.000	29.900	4.700	463.000	1.800	36.000	.000
X1	1726.100	.000	.000	.000	27.000	27.000	27.000	.000	.000	.000
X2	.000	.000	1.000	46.500	48.300	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	48.300	48.300	.000
BT	7.000	1927.000	48.900	.000	2172.000	47.900	.000	2452.000	48.300	.000
BT	2527.000	48.300	.000	2648.000	47.100	.000	2856.000	47.100	.000	2987.000
BT	48.700	.000	.000	.000	.000	.000	.000	.000	.000	.000

X1	1726.000	20.000	2457.000	2522.000	75.000	75.000	75.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	48.300	47.100	.000
GR	52.000	1653.000	51.000	1654.000	51.000	1655.000	48.900	1959.000	47.900	2189.000
GR	48.300	2457.000	43.000	2457.000	36.900	2478.000	35.100	2493.000	36.400	2499.000
GR	36.800	2507.000	44.600	2512.000	44.800	2522.000	48.300	2524.000	47.100	2641.000
GR	47.100	2836.000	48.700	2959.000	48.800	3033.000	49.400	3234.000	52.000	3300.000

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NC										
X1	1725.000	16.000	2754.000	2833.000	2700.000	2350.000	2480.000	.000	.000	.000
GR	52.000	1645.000	50.200	1648.000	49.000	1931.000	46.400	2174.000	44.800	2679.000
GR	44.400	2750.000	45.100	2754.000	37.400	2774.000	35.200	2796.000	37.300	2813.000
GR	41.400	2830.000	45.100	2833.000	45.400	2836.000	48.200	2906.000	50.000	2977.000
GR	52.000	3800.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1724.600	.000	.000	.000	400.000	450.000	500.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1724.500	17.000	2775.000	2827.000	150.000	70.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	46.000	46.400	.000
GR	52.000	1629.000	50.200	1648.000	49.000	1931.000	46.400	2174.000	44.800	2679.000
GR	44.800	2750.000	45.100	2754.000	45.000	2760.000	39.500	2775.000	37.400	2780.000
GR	35.200	2801.000	37.300	2819.000	40.500	2827.000	45.100	2839.000	48.200	2906.000
GR	50.000	2977.000	52.000	3800.000	.000	.000	.000	.000	.000	.000
SB	1.000	1.560	3.000	.000	34.300	3.000	423.000	1.200	36.000	36.000
X1	1724.400	.000	.000	.000	21.000	21.000	21.000	.000	.000	.000
X2	.000	.000	1.000	45.800	47.100	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	46.000	46.500	.000
BT	7.000	2510.000	47.000	.000	2685.000	46.000	.000	2775.000	47.100	.000
BT	2829.000	47.100	.000	2877.000	46.500	.000	3167.000	47.500	.000	3245.000
BT	47.700	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1724.300	16.000	2754.000	2833.000	60.000	60.000	60.000	.000	.000	.000
GR	52.000	1645.000	50.200	1648.000	49.000	1931.000	46.400	2174.000	44.800	2679.000
GR	44.400	2750.000	45.100	2754.000	37.400	2774.000	35.200	2796.000	37.300	2813.000
GR	41.400	2830.000	45.100	2833.000	45.400	2836.000	48.200	2906.000	50.000	2977.000
GR	52.000	3600.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.070	.070	.060	.100	.300	.000	.000	.000	.000	.000
X1	1724.000	24.000	5002.000	5085.000	2100.000	1450.000	1780.000	.000	.000	.000
GR	52.000	4000.000	49.200	4423.000	49.200	4424.000	49.200	4425.000	49.200	4426.000
GR	47.000	4611.000	44.400	4828.000	45.800	4941.000	45.800	5000.000	45.700	5002.000
GR	38.000	5024.000	36.600	5042.000	38.000	5062.000	45.400	5085.000	45.400	5086.000
GR	45.200	5087.000	45.200	5088.000	46.000	5202.000	46.000	5462.000	45.400	5640.000
GR	49.400	5834.000	50.600	6039.000	49.800	6121.000	51.600	6157.000	.000	.000
X1	1723.600	19.000	5000.000	5083.000	500.000	350.000	250.000	.000	.000	.000
GR	52.000	4000.000	51.000	4400.000	51.000	4400.000	51.000	4400.000	51.000	4400.000
GR	50.000	4500.000	49.500	4780.000	46.000	4950.000	45.700	5000.000	38.000	5022.000
GR	36.600	5041.000	38.000	5060.000	45.400	5083.000	46.000	5462.000	45.400	5640.000
GR	49.400	5834.000	50.600	6039.000	49.800	6121.000	51.600	6157.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1723.500	.000	.000	.000	120.000	80.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	46.500	46.500	.000

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SB	1.000	1.560	2.900	.000	42.700	6.300	447.000	2.000	37.500	37.500
X1	1723.400	.000	.000	.000	30.000	30.000	30.000	.000	.000	.000
X2	.000	.000	1.000	45.900	47.100	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	47.100	47.100	.000
BT	9.000	4630.000	50.100	.000	4759.000	48.300	.000	4897.000	47.500	.000
BT	5002.000	47.100	.000	5078.000	47.100	.000	5181.000	47.500	.000	5359.000
BT	47.700	.000	5485.000	47.300	.000	5550.000	46.900	.000	.000	.000
X1	1723.300	.000	.000	.000	50.000	50.000	50.000	.000	.000	.000
NC	.050	.050	.060	.100	.300	.000	.000	.000	.000	.000
X1	1723.000	18.000	1898.000	1977.000	2490.000	2500.000	2530.000	.000	.000	.000
GR	52.700	1355.000	53.700	1356.000	53.700	1357.000	52.700	1494.000	50.700	1631.000

SR	48.900	1751.000	46.900	1968.000	47.700	1977.000	47.500	2129.000	51.100	2235.000
GR	39.000	1948.000	45.000	1968.000	47.700	1977.000	47.500	2129.000	51.100	2235.000
GR	51.900	2369.000	52.100	2534.000	52.100	2756.000	.000	.000	.000	.000
X1	1722.800	.000	.000	.000	430.000	450.000	480.000	.000	.000	.000
NC	.050	.050	.060	.300	.500	.000	.000	.000	.000	.000
X1	1722.700	18.000	1900.000	1965.000	90.000	110.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	45.700	47.100	.000
GR	53.700	1355.000	53.700	1356.000	53.700	1357.000	52.700	1494.000	50.700	1631.000
GR	48.900	1751.000	46.000	1900.000	39.200	1919.000	37.700	1933.000	39.000	1948.000
GR	44.000	1965.000	45.000	1968.000	47.700	1977.000	47.500	2129.000	51.100	2235.000
GR	51.900	2369.000	52.100	2534.000	52.100	2756.000	.000	.000	.000	.000
SB	1.000	1.560	3.000	.000	29.100	4.700	354.000	1.800	38.000	38.000
X1	1722.600	.000	.000	.000	20.000	20.000	20.000	.000	.000	.000
X2	.000	.000	1.000	46.800	48.300	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	45.700	47.900	.000
BT	15.000	1298.000	54.100	.000	1459.000	52.900	.000	1549.000	50.900	.000
BT	1684.000	48.900	.000	1791.000	46.300	.000	1840.000	45.700	.000	1870.000
BT	47.500	.000	1893.000	48.300	.000	1973.000	48.300	.000	2046.000	47.900
BT	.000	2119.000	47.900	.000	2143.000	47.100	.000	2230.000	48.900	.000
BT	2359.000	50.500	.000	2498.000	51.300	.000	.000	.000	.000	.000
X1	1722.500	18.000	1898.000	1977.000	50.000	50.000	50.000	.000	.000	.000
GR	53.700	1355.000	53.700	1356.000	53.700	1357.000	52.700	1494.000	50.700	1631.000
GR	48.900	1751.000	46.800	1898.000	39.200	1919.000	37.700	1933.000	37.500	1935.000
GR	39.000	1948.000	45.000	1968.000	47.700	1977.000	47.500	2129.000	51.100	2235.000
GR	51.900	2369.000	52.100	2534.000	52.100	2756.000	.000	.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1722.300	18.000	1820.000	1880.000	2230.000	3015.000	2575.000	.000	.000	.000
GR	52.800	1353.000	52.800	1354.000	52.800	1355.000	51.800	1528.000	49.800	1615.000
GR	49.400	1720.000	45.900	1820.000	39.800	1829.000	38.500	1844.000	39.600	1863.000
GR	45.500	1879.000	46.600	1880.000	47.400	1976.000	47.000	2079.000	49.400	2244.000
GR	51.200	2443.000	52.000	2520.000	52.500	2530.000	.000	.000	.000	.000

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NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1722.200	18.000	1804.000	1885.000	90.000	110.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	50.100	49.500	.000
GR	52.800	1353.000	52.800	1354.000	52.800	1355.000	51.800	1528.000	49.800	1615.000
GR	49.400	1720.000	47.200	1804.000	39.000	1837.000	38.500	1844.000	39.000	1854.000
GR	47.000	1885.000	47.100	1887.000	47.400	1976.000	47.000	2079.000	49.400	2244.000
GR	51.200	2443.000	52.000	2520.000	52.500	2530.000	.000	.000	.000	.000
SB	1.000	1.560	2.700	.000	26.700	6.300	545.000	3.000	39.000	39.000
X1	1722.100	.000	.000	.000	31.000	31.000	31.000	.000	.000	.000
X2	.000	.000	1.000	49.500	50.900	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	50.100	49.500	.000
BT	11.000	1330.000	52.100	.000	1492.000	52.900	.000	1533.000	51.100	.000
BT	1732.000	50.300	.000	1771.000	50.100	.000	1805.000	50.900	.000	1883.000
BT	50.900	.000	1972.000	49.500	.000	2130.000	50.100	.000	2296.000	51.100
BT	.000	2430.000	51.700	.000	.000	.000	.000	.000	.000	.000
X1	1722.000	18.000	1820.000	1880.000	70.000	70.000	70.000	.000	.000	.000
GR	52.800	1353.000	52.800	1354.000	52.800	1355.000	51.800	1528.000	49.800	1615.000
GR	49.400	1720.000	45.900	1820.000	39.800	1829.000	38.500	1844.000	39.600	1863.000
GR	45.500	1879.000	46.600	1880.000	47.400	1976.000	47.000	2079.000	49.400	2244.000
GR	51.200	2443.000	52.000	2520.000	52.500	2530.000	.000	.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1721.500	24.000	7646.000	7715.000	1700.000	1200.000	1450.000	.000	.000	.000

GR	53.000	6500.000	52.000	6500.000	52.000	6500.000	52.000	6500.000	52.000	6500.000
GR	50.500	7139.000	48.300	7343.000	48.500	7508.000	48.400	7566.000	46.500	7646.000
GR	40.000	7566.000	39.400	7681.000	39.000	7684.000	38.600	7587.000	39.000	7690.000
GR	39.400	7692.000	42.600	7706.000	46.300	7715.000	48.000	7797.000	47.800	8060.000
GR	48.400	8297.000	51.000	8563.000	51.400	8858.000	53.000	8900.000	.000	.000
X1	1721.300	29.000	3690.000	3677.000	1850.000	300.000	1450.000	.319	.000	.000
GR	52.900	2626.000	52.300	2640.000	52.140	2662.000	52.100	3093.000	52.100	3159.000
GR	50.700	3263.000	49.100	3359.000	47.300	3591.000	45.500	3600.000	43.500	3610.000
GR	40.800	3623.000	38.800	3639.000	40.500	3653.000	42.400	3660.000	47.000	3677.000
GR	47.500	3696.000	47.500	3696.000	48.900	3884.000	50.300	4037.000	53.100	3659.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1721.200	29.000	3610.000	3660.000	119.000	90.000	100.000	.219	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	49.600	49.600	.000
GR	52.900	2626.000	52.300	2640.000	52.100	2662.000	52.100	3093.000	52.100	3159.000
GR	50.700	3263.000	49.100	3359.000	47.300	3591.000	45.500	3600.000	43.500	3610.000
GR	40.800	3623.000	38.800	3639.000	40.500	3653.000	47.000	3660.000	47.000	3677.000
GR	47.500	3703.000	47.500	3704.000	48.900	3884.000	50.300	4037.000	53.000	3659.000
BB	1.000	1.560	3.000	.000	19.600	2.000	254.000	1.000	39.500	39.500
X1	1721.100	.000	.000	.000	25.000	25.000	25.000	.000	.000	.000
X2	.000	.000	1.000	48.900	50.400	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	50.400	49.600	.000
BT	9.000	3093.000	52.400	.000	3234.000	49.800	.000	3308.000	49.600	.000
BT	3439.000	50.400	.000	3472.000	50.400	.000	3526.000	49.600	.000	3632.000
BT	50.000	.000	3784.000	51.000	.000	3907.000	51.600	.000	.000	.000

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X1	1721.000	29.000	3600.000	3677.000	120.000	100.000	110.000	.000	.000	.000
GR	52.900	2626.000	52.300	2640.000	52.100	2662.000	52.100	3093.000	52.100	3159.000
GR	50.700	3263.000	49.100	3359.000	47.300	3591.000	45.500	3600.000	43.500	3610.000
GR	40.800	3623.000	38.800	3639.000	40.500	3653.000	42.400	3660.000	47.000	3677.000
GR	47.500	3696.000	47.500	3696.000	48.900	3884.000	50.300	4037.000	53.100	3659.000
NC	.050	.050	.050	.100	.300	.000	.000	.000	.000	.000
QT	2.000	3100.000	2160.000	.000	.000	.000	.000	.000	.000	.000
X1	1718.000	13.000	4180.000	4283.000	3540.000	5060.000	4550.000	.000	.000	.000
GR	53.900	4031.000	55.100	4043.000	55.300	4069.000	53.900	4084.000	49.500	4180.000
GR	41.100	4221.000	40.100	4224.000	39.500	4228.000	39.500	4231.000	40.100	4235.000
GR	41.100	4238.000	53.100	4283.000	54.000	5300.000	.000	.000	.000	.000
X1	1717.000	23.000	4482.000	4575.000	2400.000	2300.000	2270.000	.000	.000	.000
GR	55.000	1500.000	53.200	4288.000	53.200	4289.000	53.000	4300.000	51.200	4318.000
GR	51.400	4415.000	52.200	4482.000	46.400	4492.000	46.200	4513.000	42.600	4521.000
GR	41.000	4524.000	40.200	4529.000	39.900	4531.000	40.200	4533.000	41.000	4538.000
GR	42.700	4541.000	46.100	4548.000	51.300	4575.000	51.300	4700.000	51.500	5032.000
GR	52.900	5047.000	52.900	5061.000	55.000	9500.000	.000	.000	.000	.000
QT	2.000	2770.000	2000.000	.000	.000	.000	.000	.000	.000	.000
X1	1716.300	23.000	1797.000	1850.000	2400.000	2500.000	2460.000	.000	.000	.000
GR	55.000	1113.000	53.200	1114.000	53.200	1115.000	53.200	1116.000	52.400	1444.000
GR	52.300	1535.000	52.900	1668.000	50.700	1777.000	50.400	1797.000	45.000	1808.000
GR	40.200	1823.000	43.800	1837.000	50.300	1850.000	50.300	1852.000	50.300	1854.000
GR	50.500	1870.000	50.500	1871.000	52.700	2061.000	53.300	2107.000	54.900	2134.000
GR	54.500	2230.000	54.900	2273.000	55.300	2278.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1716.200	23.000	1808.000	1837.000	100.000	100.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	49.800	49.800	.000
GR	55.000	1113.000	53.200	1114.000	53.200	1115.000	53.200	1116.000	52.400	1444.000
GR	52.300	1535.000	52.900	1668.000	50.700	1777.000	50.400	1797.000	45.000	1808.000

GR	50.500	1370.000	50.500	1371.000	52.700	2061.000	53.300	2107.000	54.900	2134.000
GR	54.500	2230.000	54.900	2273.000	55.300	2278.000	.000	.000	.000	.000
SB	1.000	1.560	2.600	.000	20.100	1.000	190.000	.500	41.000	41.000
X1	1716.100	.000	.000	.000	20.000	20.000	20.000	.000	.000	.000
X2	.000	.000	1.000	49.200	50.500	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	50.500	50.500	.000
BT	3.000	1747.000	51.300	.000	1772.000	51.500	.000	1308.000	50.500	.000
BT	1338.000	50.500	.000	1872.000	51.700	.000	1970.000	52.900	.000	2068.000
BT	53.900	.000	2167.000	55.100	.000	.000	.000	.000	.000	.000
X1	1716.000	23.000	1797.000	1950.000	90.000	90.000	90.000	.000	.000	.000
GR	55.000	1113.000	53.200	1114.000	53.200	1115.000	53.200	1116.000	52.400	1444.000
GR	52.300	1535.000	52.900	1568.000	50.700	1777.000	50.400	1797.000	45.000	1308.000
GR	40.200	1923.000	43.800	1937.000	50.300	1950.000	50.300	1952.000	50.300	1854.000
GR	50.500	1870.000	50.500	1871.000	52.700	2061.000	53.300	2107.000	54.900	2134.000
GR	54.500	2230.000	54.900	2273.000	55.300	2278.000	.000	.000	.000	.000

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NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1715.800	17.000	2975.000	3049.000	3100.000	3220.000	3280.000	.000	.000	.000
GR	56.000	2500.000	52.500	2695.000	51.300	2785.000	51.700	2972.000	53.100	2938.000
GR	52.700	2969.000	50.400	2975.000	45.000	2993.000	40.700	3008.000	44.400	3021.000
GR	51.100	3049.000	50.700	3121.000	51.100	3155.000	50.900	3394.000	52.100	3502.000
GR	53.100	3698.000	56.000	4200.000	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1715.700	17.000	2993.000	3021.000	150.000	150.000	150.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	50.700	50.700	.000
GR	56.000	2500.000	52.500	2695.000	51.300	2785.000	51.700	2872.000	53.100	2938.000
GR	52.700	2969.000	50.400	2975.000	45.000	2993.000	40.700	3008.000	44.400	3021.000
GR	51.100	3049.000	50.700	3121.000	51.100	3155.000	50.900	3394.000	52.100	3502.000
GR	53.100	3698.000	56.000	4200.000	.000	.000	.000	.000	.000	.000

SB	1.000	1.560	3.000	.000	17.900	1.300	203.000	1.000	42.000	42.000
X1	1715.600	.000	.000	.000	21.000	21.000	21.000	.000	.000	.000
X2	.000	.000	1.000	50.200	51.500	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	50.800	50.800	.000
BT	6.000	2795.000	51.700	.000	2948.000	50.700	.000	2996.000	51.500	.000
BT	3028.000	51.500	.000	3139.000	51.300	.000	3253.000	50.700	.000	.000

X1	1715.500	17.000	2975.000	3049.000	75.000	75.000	75.000	.000	.000	.000
GR	56.000	2500.000	52.500	2695.000	51.300	2785.000	51.700	2872.000	53.100	2938.000
GR	52.700	2969.000	50.400	2975.000	45.000	2993.000	40.700	3008.000	44.400	3021.000
GR	51.100	3049.000	50.700	3121.000	51.100	3155.000	50.900	3394.000	52.100	3502.000
GR	53.100	3698.000	56.000	4200.000	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1715.300	25.000	5624.000	5717.000	1530.000	1420.000	1510.000	.707	.000	.000
GR	56.000	3877.000	56.000	3878.000	56.000	3879.000	56.000	3880.000	56.000	3881.000
GR	55.000	5100.000	52.000	5624.000	46.000	5645.000	45.500	5650.000	42.900	5666.000
GR	44.800	5688.000	52.300	5717.000	51.400	5890.000	50.000	5948.000	49.800	5966.000
GR	49.900	6002.000	49.800	6013.000	51.000	6086.000	50.400	6140.000	50.800	6193.000
GR	50.800	6200.000	51.200	6640.000	53.800	7089.000	55.000	7128.000	55.800	7360.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1715.200	25.000	5645.000	5688.000	170.000	170.000	170.000	.707	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	51.800	51.600	.000
GR	56.000	3877.000	56.000	3878.000	56.000	3879.000	56.000	3880.000	56.000	3881.000
GR	55.000	5100.000	52.000	5624.000	46.000	5645.000	45.500	5650.000	42.900	5666.000
GR	44.800	5688.000	52.300	5717.000	51.400	5890.000	50.000	5948.000	49.800	5966.000
GR	49.900	6002.000	49.800	6013.000	51.000	6086.000	50.400	6140.000	50.800	6193.000

33	1.000	1.560	2.500	.000	11.800	1.000	170.000	1.000	43.500	43.500
X1	1715.100	.000	.000	.000	25.000	25.000	25.000	.000	.000	.000
X2	.000	.000	1.000	51.400	52.800	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	51.800	51.600	.000
BT	7.000	5059.000	52.900	.000	5083.000	52.900	.000	5197.000	51.500	.000
BT	5253.000	51.200	.000	5287.000	48.800	.000	5341.000	50.300	.000	5380.000
BT	51.300	.000	.000	.000	.000	.000	.000	.000	.000	.000

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X1	1715.000	25.000	5624.000	5717.000	110.000	110.000	110.000	.707	.000	.000
GR	56.000	3877.000	56.000	3878.000	56.000	3879.000	56.000	3880.000	56.000	3881.000
GR	53.000	5100.000	52.000	5624.000	46.000	5645.000	45.500	5650.000	42.900	5666.000
GR	44.800	5538.000	52.300	5717.000	51.400	5890.000	50.000	5943.000	49.800	5966.000
GR	49.900	6002.000	49.800	6013.000	51.000	6086.000	50.400	6140.000	50.600	6193.000
GR	50.800	6200.000	51.200	6640.000	53.800	7089.000	55.000	7129.000	55.800	7360.000

NC	.050	.050	.050	.100	.300	.000	.000	.000	.000	.000
X1	1714.000	30.000	5529.000	5592.000	1675.000	1365.000	1550.000	.000	.000	.000
GR	56.000	3500.000	56.000	3500.000	56.000	3500.000	56.000	3500.000	56.000	3500.000
GR	54.500	4378.000	54.500	4379.000	54.500	4380.000	54.500	4381.000	53.500	4571.000
GR	51.400	5226.000	52.400	5279.000	52.200	5372.000	51.000	5529.000	44.800	5548.000
GR	44.500	5551.000	44.200	5556.000	44.000	5559.000	44.200	5562.000	44.500	5567.000
GR	44.800	5570.000	51.600	5592.000	52.800	5880.000	52.800	6050.000	53.000	6185.000
GR	54.800	6204.000	55.800	6354.000	56.000	6466.000	57.200	6605.000	58.500	6820.000

BT	2.000	2440.000	1800.000	.000	.000	.000	.000	.000	.000	.000
X1	1713.300	23.000	2841.000	2898.000	2370.000	2220.000	2320.000	.000	.000	.000
GR	56.400	1000.000	57.000	1383.000	58.200	1400.000	58.000	1412.000	57.400	1420.000
GR	58.000	1721.000	57.400	2071.000	55.800	2177.000	54.200	2826.000	52.600	2841.000
GR	46.400	2857.000	45.500	2869.000	46.400	2877.000	46.600	2884.000	47.800	2888.000
GR	53.600	2894.000	52.100	2898.000	55.200	2912.000	54.200	3109.000	53.200	3351.000
GR	53.200	3587.000	54.800	3602.000	57.000	4000.000	.000	.000	.000	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1713.200	19.000	2849.000	2899.000	150.000	150.000	150.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	55.500	55.500	.000
GR	58.000	1721.000	57.400	2071.000	55.800	2177.000	54.200	2826.000	52.600	2841.000
GR	54.600	2849.000	50.500	2849.000	50.500	2867.000	47.000	2867.000	47.000	2871.000
GR	50.500	2871.000	50.500	2889.000	54.600	2899.000	54.200	3109.000	53.200	3351.000
GR	53.200	3587.000	54.800	3602.000	57.000	4000.000	58.000	5100.000	.000	.000

SB	1.100	1.800	2.600	.000	30.700	4.000	156.000	.200	49.000	49.000
X1	1713.100	.000	.000	.000	38.000	38.000	38.000	.000	.000	.000
X2	.000	.000	1.000	54.600	56.700	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	56.700	56.700	.000
BT	5.000	2177.000	55.500	55.800	2849.000	56.700	54.600	2899.000	56.700	54.600
BT	3109.000	56.700	54.200	3351.000	56.500	53.200	.000	.000	.000	.000

X1	1713.000	15.000	2841.000	2938.000	100.000	100.000	100.000	.000	.000	.000
GR	58.000	1721.000	57.400	2071.000	55.800	2177.000	54.200	2826.000	52.600	2841.000
GR	46.400	2857.000	45.500	2869.000	46.400	2877.000	46.600	2884.000	47.800	2898.000
GR	53.600	2894.000	52.100	2898.000	55.200	2912.000	55.700	3200.000	58.000	5100.000

NC	.050	.050	.060	.100	.300	.000	.000	.000	.000	.000
X1	1712.800	16.000	1250.000	1308.000	2240.000	2020.000	2470.000	.000	.000	.000
GR	59.000	.000	59.000	.000	59.000	.000	59.000	.000	59.000	.000
GR	56.500	1000.000	53.300	1250.000	52.500	1257.000	51.700	1264.000	50.000	1279.000
GR	47.100	1288.000	48.800	1298.000	53.600	1308.000	55.000	1380.000	56.000	2000.000
GR	59.000	5300.000	.000	.000	.000	.000	.000	.000	.000	.000

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NC	.300	.300	.000	.300	.500	.000	.000	.000	.000	.000
X1	1712.700	15.000	1257.000	1312.000	100.000	100.000	100.000	.000	.000	.000
X2	10.000	.000	.000	.000	.000	.000	.000	55.900	55.900	.000
SR	59.000	.000	59.000	.000	59.000	.000	59.000	.000	59.000	.000
GR	56.500	1000.000	53.300	1250.000	52.500	1257.000	51.700	1264.000	50.000	1279.000
BR	47.100	1298.000	48.800	1298.000	53.600	1208.000	55.300	1312.000	55.000	2000.000
SR	59.000	5300.000	.000	.000	.000	.000	.000	.000	.000	.000

SB	1.500	1.560	2.700	.000	21.100	2.000	239.000	2.000	48.000	48.000
X1	1712.500	.000	.000	.000	30.000	30.000	30.000	.000	.000	.000
X2	.000	.000	1.000	55.200	55.500	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	56.100	56.500	.000
BT	5.000	1179.000	55.100	.000	1244.000	55.500	.000	1321.000	55.500	.000
BT	1406.000	55.700	.000	1580.000	56.900	.000	.000	.000	.000	.000

X1	1712.500	16.000	1250.000	1308.000	50.000	50.000	50.000	.000	.000	.000
SR	59.000	.000	59.000	.000	59.000	.000	59.000	.000	59.000	.000
GR	56.500	1000.000	53.300	1250.000	52.500	1257.000	51.700	1264.000	50.000	1279.000
BR	47.100	1298.000	48.800	1298.000	53.600	1208.000	55.000	1330.000	56.000	2000.000
SR	59.000	5300.000	.000	.000	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1712.200	14.000	2243.000	2294.000	1920.000	2370.000	2120.000	.000	.000	.000
GR	62.100	1000.000	60.500	1322.000	60.900	1553.000	58.700	1862.000	58.100	2180.000
BR	58.100	2243.000	51.500	2254.000	49.600	2257.000	49.800	2270.000	54.400	2283.000
GR	58.100	2294.000	57.500	2483.000	60.900	2899.000	60.700	3151.000	.000	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1712.200	14.000	2254.000	2283.000	100.000	100.000	100.000	.000	.000	.000
X2	10.000	.000	.000	.000	.000	.000	.000	58.900	58.000	.000
SR	62.100	1000.000	60.500	1322.000	60.900	1553.000	58.700	1862.000	58.100	2180.000
BR	58.100	2243.000	51.500	2254.000	49.600	2257.000	49.800	2270.000	54.400	2283.000
GR	58.100	2294.000	57.500	2483.000	60.900	2899.000	60.700	3151.000	.000	.000

SB	1.000	1.560	2.600	.000	16.900	1.000	155.000	1.000	50.000	50.000
X1	1712.100	.000	.000	.000	22.000	22.000	22.000	.000	.000	.000
X2	.000	.000	1.000	57.200	58.900	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	58.900	58.900	.000
BT	8.000	1863.000	60.300	.000	1988.000	59.300	.000	2095.000	59.100	.000
BT	2249.000	58.900	.000	2295.000	58.900	.000	2476.000	58.900	.000	2646.000
BT	58.900	.000	2823.000	50.700	.000	.000	.000	.000	.000	.000

X1	1712.000	14.000	2243.000	2294.000	50.000	50.000	50.000	.000	.000	.000
GR	62.100	1000.000	60.500	1322.000	60.900	1553.000	58.700	1862.000	58.100	2180.000
BR	58.100	2243.000	51.500	2254.000	49.600	2257.000	49.800	2270.000	54.400	2283.000
GR	58.100	2294.000	57.500	2483.000	60.900	2899.000	60.700	3151.000	.000	.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1711.800	10.000	1100.000	1151.000	1450.000	10.000	1000.000	.000	.000	.000
GR	60.500	1000.000	55.300	1100.000	51.300	1113.000	50.200	1116.000	48.300	1127.000
GR	49.800	1139.000	50.500	1141.000	54.600	1151.000	60.000	1550.000	60.500	1600.000

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NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1711.700	10.000	1113.000	1141.000	150.000	20.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	55.800	55.600	.000
GR	60.500	1000.000	55.300	1100.000	51.300	1113.000	50.200	1116.000	48.300	1127.000
GR	49.800	1139.000	50.500	1141.000	54.600	1151.000	60.000	1550.000	60.500	1600.000

SB	1.000	1.560	2.900	.000	12.300	1.000	155.000	1.500	48.000	48.000
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X2	.000	.000	1.000	55.100	55.400	.000	.000	.000	.000	.000
X2	11.000	.000	.000	.000	.000	.000	.000	56.500	55.200	.000
BT	3.000	858.000	59.400	.000	974.000	58.000	.000	1042.000	57.400	.000
BT	1098.000	55.500	.000	1121.000	56.400	.000	1155.000	56.200	.000	1041.000
BT	57.400	.000	1324.000	59.300	.000	.000	.000	.000	.000	.000

X1	1711.500	10.000	1100.000	1151.000	50.000	50.000	60.000	.000	.000	.000
GR	60.500	1000.000	55.300	1100.000	51.300	1113.000	50.200	1116.000	48.200	1127.000
GR	49.300	1109.000	50.500	1141.000	54.600	1151.000	50.000	1550.000	50.500	1530.000

NC	.000	.000	.000	.100	.200	.000	.000	.000	.000	.000
X1	1711.200	19.000	3731.000	3754.000	1440.000	3860.000	3000.000	.000	.000	.000
GR	64.000	3100.000	50.700	3166.000	58.900	3394.000	57.700	3680.000	57.800	3731.000
GR	53.500	3745.000	50.500	3753.000	49.400	3759.000	50.500	3768.000	52.700	3773.000
GR	57.000	3783.000	57.300	3784.000	57.700	3861.000	57.300	3927.000	58.700	4020.000
GR	59.900	4106.000	61.300	4301.000	61.500	4443.000	.000	.000	.000	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1711.200	19.000	3745.000	3773.000	100.000	100.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	56.900	57.400	.000
GR	64.000	3100.000	50.700	3166.000	58.900	3394.000	57.700	3680.000	57.800	3731.000
GR	53.500	3745.000	50.500	3753.000	49.400	3759.000	50.500	3768.000	52.700	3773.000
GR	57.000	3783.000	57.300	3784.000	57.700	3861.000	57.300	3927.000	58.700	4020.000
GR	59.900	4106.000	61.300	4301.000	61.500	4443.000	.000	.000	.000	.000

S8	1.000	1.560	3.000	.000	16.800	1.200	152.000	1.000	50.000	50.000
X1	1711.100	.000	.000	.000	18.000	18.000	18.000	.000	.000	.000
X2	.000	.000	1.000	56.500	58.100	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	56.900	57.700	.000
BT	8.000	3382.000	62.500	.000	3514.000	59.700	.000	3644.000	57.700	.000
BT	3702.000	55.900	.000	3745.000	58.100	.000	3777.000	59.100	.000	3905.000
BT	57.700	.000	4060.000	60.100	.000	.000	.000	.000	.000	.000

X1	1711.000	18.000	3731.000	3784.000	85.000	85.000	95.000	.000	.000	.000
GR	64.000	3100.000	50.700	3166.000	58.900	3394.000	57.700	3680.000	57.800	3731.000
GR	53.500	3745.000	50.500	3753.000	49.400	3759.000	50.500	3768.000	52.700	3773.000
GR	57.000	3783.000	57.300	3784.000	57.700	3861.000	57.300	3927.000	58.700	4020.000
GR	59.900	4106.000	61.300	4301.000	61.500	4443.000	.000	.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
BT	2.000	2030.000	1500.000	.000	.000	.000	.000	.000	.000	.000

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X1	1710.300	21.000	2786.000	2845.000	4500.000	2780.000	4000.000	.000	.000	.000
GR	63.000	2485.000	63.000	2486.000	63.000	2485.000	63.000	2485.000	63.000	2485.000
GR	60.300	2506.000	58.500	2529.000	58.500	2726.000	57.700	2783.000	57.900	2786.000
GR	53.800	2797.000	52.700	2804.000	51.400	2813.000	52.900	2821.000	53.800	2827.000
GR	55.600	2831.000	52.100	2845.000	59.300	2982.000	59.300	3052.000	60.300	3555.000
GR	63.000	3800.000	.000	.000	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1710.200	.000	.000	.000	100.000	100.000	100.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	59.100	59.100	.000

S8	1.000	1.560	3.000	.000	26.600	3.900	220.000	1.800	52.000	52.000
X1	1710.100	.000	.000	.000	26.000	26.000	26.000	.000	.000	.000
X2	.000	.000	1.000	58.400	59.900	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	59.700	59.500	.000
BT	6.000	2676.000	59.700	.000	2792.000	59.900	.000	2833.000	59.900	.000
BT	2876.000	59.700	.000	2912.000	59.500	.000	3026.000	60.300	.000	.000
X1	1710.000	.000	.000	.000	60.000	60.000	60.000	.000	.000	.000

Y1	1709.300	3.000	1350.000	1409.000	1359.000	1350.000	1550.000	.000	.000	.000
GR	52.300	1000.000	51.500	1020.000	57.500	1350.000	53.400	1351.000	51.100	1378.000
GR	54.500	1390.000	55.500	1499.000	50.000	1420.000	54.000	2900.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1709.700	9.000	1355.000	1395.000	50.000	50.000	50.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	58.800	58.800	.000
GR	52.900	1000.000	51.500	1020.000	53.000	1355.000	53.300	1365.000	51.100	1378.000
GR	54.400	1399.000	53.000	1395.000	50.000	1420.000	54.000	2900.000	.000	.000

SB	1.150	1.550	2.300	.300	15.500	2.300	143.000	1.150	51.000	51.000
X1	1709.600	.000	.000	.000	22.000	22.000	22.000	.000	.000	.000
X2	.000	.000	1.000	57.900	59.700	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	59.700	59.700	.000
BT	5.000	400.000	54.000	.000	1100.000	59.700	.000	1355.000	59.700	.000
BT	1396.000	59.700	.000	1600.000	60.300	.000	.000	.000	.000	.000
X1	1709.500	9.000	1355.000	1396.000	50.000	50.000	50.000	.000	.000	.000
GR	52.900	1000.000	51.500	1020.000	58.000	1355.000	53.000	1365.000	51.100	1378.000
GR	54.400	1393.000	59.000	1395.000	60.000	1420.000	64.000	2900.000	.000	.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1709.300	19.000	3875.000	3926.000	860.000	1960.000	1400.000	.000	.000	.000
GR	63.000	3073.000	51.900	3074.000	61.900	3075.000	62.300	3203.000	51.500	3356.000
GR	59.300	3635.000	58.900	3875.000	54.800	3890.000	51.800	3905.000	53.800	3914.000
GR	55.800	3919.000	58.600	3926.000	59.300	4022.000	58.700	4107.000	60.500	4128.000
GR	61.100	4211.000	61.500	4339.000	64.000	6400.000	.000	.000	.000	.000

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NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1709.200	13.000	3890.000	3919.000	130.000	130.000	130.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	61.800	61.600	.000
GR	53.000	3073.000	51.900	3074.000	61.900	3075.000	62.300	3203.000	51.500	3356.000
GR	59.300	3635.000	58.900	3875.000	54.800	3890.000	51.800	3905.000	53.800	3914.000
GR	55.800	3919.000	58.600	3926.000	59.300	4022.000	58.700	4107.000	60.500	4128.000
GR	61.100	4211.000	61.500	4339.000	64.000	6400.000	.000	.000	.000	.000

SB	1.000	1.550	2.500	.000	18.300	1.300	212.000	.650	52.000	52.000
X1	1709.100	.000	.000	.000	27.000	27.000	27.000	.000	.000	.000
X2	.000	.000	1.000	51.200	62.500	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	61.900	61.700	.000
BT	5.000	3254.000	62.700	.000	3560.000	61.900	.000	3891.000	62.500	.000
BT	3926.000	62.500	.000	4010.000	61.700	.000	4454.000	61.100	.000	.000

X1	1709.000	19.000	3875.000	3926.000	80.000	80.000	80.000	.000	.000	.000
GR	63.000	3200.000	62.300	3201.000	62.300	3202.000	62.300	3203.000	61.500	3356.000
GR	59.300	3635.000	58.900	3875.000	54.800	3890.000	51.800	3905.000	53.800	3914.000
GR	55.800	3919.000	58.600	3926.000	59.300	4022.000	58.700	4107.000	60.500	4128.000
GR	61.100	4211.000	61.500	4339.000	64.000	6400.000	.000	.000	.000	.000

NC	.050	.050	.040	.100	.300	.000	.000	.000	.000	.000
X1	1708.000	18.000	3036.000	3156.000	3190.000	2740.000	3040.000	.000	.000	.000
GR	56.700	1000.000	65.500	1566.000	65.100	2157.000	65.100	2201.000	65.900	2521.000
GR	61.700	2763.000	60.100	2938.000	62.700	3020.000	66.100	3036.000	62.000	3047.000
GR	62.000	3057.000	54.200	3086.000	51.800	3106.000	54.100	3126.000	58.000	3156.000
GR	60.900	3260.000	60.900	3408.000	64.000	5600.000	.000	.000	.000	.000

X1	1707.500	14.000	4800.000	4925.000	1300.000	1950.000	1780.000	.000	.000	.000
GR	56.700	2000.000	65.000	3800.000	62.900	4660.000	51.100	4760.000	65.500	4800.000
GR	61.600	4812.000	61.500	4822.000	54.100	4850.000	52.500	4870.000	54.100	4890.000
GR	59.700	4925.000	59.900	5049.000	59.700	5368.000	64.000	7000.000	.000	.000

X1	1707.000	12.000	2464.000	2590.000	3530.000	3100.000	2650.000	.000	.000	.000
GR	64.700	2067.000	62.500	2387.000	65.500	2464.000	54.500	2507.000	53.100	2527.000
BR	54.200	2547.000	65.500	2530.000	62.700	2345.000	63.500	2997.000	62.500	3303.000
GR	63.100	3819.000	65.500	4048.000	63.900	4121.000	.000	.000	.000	.000
X1	1706.300	16.000	2464.000	2590.000	150.000	100.000	130.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	56.400	66.400	.000
BR	64.700	2067.000	64.700	2058.000	63.500	2387.000	65.500	2464.000	54.300	2507.000
BR	63.100	2527.000	64.200	2547.000	65.500	2530.000	65.500	2590.000	65.500	2590.000
BR	63.700	2645.000	65.500	2997.000	62.900	2303.000	63.100	3819.000	63.500	4048.000
GR	63.900	4121.000	.000	.000	.000	.000	.000	.000	.000	.000
BR	1.000	1.560	2.600	.000	40.000	2.000	712.000	3.000	.000	.000
X1	1706.700	.000	.000	.000	200.000	200.000	200.000	.000	.000	.000
X2	.000	.000	1.000	63.400	66.400	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	56.400	66.400	.000
BT	3.000	2000.000	66.600	.000	2100.000	66.500	.000	2200.000	66.600	.000
BT	2300.000	66.700	.000	2400.000	66.800	.000	2464.000	66.900	.000	2590.000
BT	67.000	.000	2700.000	66.900	.000	2900.000	66.700	.000	.000	.000

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X1	1706.500	23.000	4913.000	4981.000	3000.000	2900.000	2950.000	.906	.000	.000
GR	65.100	3017.000	65.100	3018.000	65.100	3019.000	63.700	3565.000	63.900	4076.000
GR	62.900	4180.000	65.300	4242.000	62.700	4290.000	61.900	4334.000	63.100	4491.000
GR	63.700	4643.000	63.500	4706.000	65.900	4859.000	64.900	4908.000	64.900	4908.000
GR	62.800	4913.000	66.800	4923.000	65.500	4925.000	63.600	4943.000	65.600	4961.000
GR	66.700	4964.000	62.900	4981.000	65.000	5500.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
X1	1706.400	23.000	4923.000	4964.000	100.000	100.000	100.000	.906	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	63.000	62.000	.000
GR	65.100	3017.000	65.100	3018.000	65.100	3019.000	63.700	3565.000	63.900	4076.000
GR	62.900	4180.000	65.300	4242.000	62.700	4290.000	61.900	4334.000	63.100	4491.000
GR	63.700	4643.000	63.500	4706.000	65.900	4859.000	64.900	4908.000	64.900	4908.000
GR	62.800	4913.000	66.800	4923.000	65.500	4925.000	63.600	4943.000	65.600	4961.000
GR	66.700	4964.000	62.900	4981.000	65.000	5500.000	.000	.000	.000	.000

SB	1.000	1.560	2.600	.000	25.600	1.800	264.000	1.000	54.000	54.000
X1	1706.300	.000	.000	.000	20.000	20.000	20.000	.000	.000	.000
X2	.000	.000	1.000	62.400	63.600	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	63.600	63.600	.000
BT	11.000	4375.000	65.300	.000	4429.000	65.100	.000	4499.000	64.500	.000
BT	4531.000	64.100	.000	4604.000	64.100	.000	4664.000	64.700	.000	4744.000
BT	63.600	.000	4782.000	63.600	.000	4869.000	64.200	.000	4985.000	64.600
BT	.000	5111.000	65.400	.000	.000	.000	.000	.000	.000	.000

X1	1706.200	23.000	4913.000	4981.000	80.000	100.000	100.000	.906	.000	.000
GR	65.100	3017.000	65.100	3019.000	65.100	3019.000	63.700	3565.000	63.900	4076.000
GR	62.900	4180.000	65.300	4242.000	62.700	4290.000	61.900	4334.000	63.100	4491.000
GR	63.700	4643.000	63.500	4706.000	65.900	4859.000	64.900	4908.000	64.900	4908.000
GR	62.800	4913.000	66.800	4923.000	65.500	4925.000	63.600	4943.000	65.600	4961.000
GR	66.700	4964.000	62.900	4981.000	65.000	5500.000	.000	.000	.000	.000

NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
X1	1706.000	22.000	2911.000	3045.000	2370.000	3050.000	2900.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	67.300	1902.000	67.300	1903.000	67.300	1904.000	67.300	1905.000	66.100	1989.000
GR	66.500	2013.000	64.100	2287.000	63.300	2508.000	61.900	2828.000	63.700	2872.000
GR	62.300	2911.000	66.100	2929.000	65.000	2939.000	64.200	2954.000	65.000	2968.000
GR	66.100	2978.000	63.500	3045.000	67.100	3102.000	63.500	3129.000	63.100	3549.000
GR	64.500	4000.000	65.000	4100.000	.000	.000	.000	.000	.000	.000

33	70,300	1,000,000	55,000	1024,000	55,300	1,012,000	57,500	2,099,000	54,000	2,668,000
32	52,500	2,900,000	53,800	3,800,000	70,000	3,857,000	65,000	3,902,000	57,000	3,959,000
31	56,500	2,926,000	55,000	3,936,000	54,000	3,942,000	55,000	3,950,000	55,000	3,950,000
30	57,000	2,900,000	53,800	3,800,000	70,000	3,857,000	65,000	3,902,000	57,000	3,959,000
29	58,500	2,444,000	58,500	3,445,000	59,000	3,445,000	59,000	3,449,000	53,000	3,483,000
28	58,500	1,445,000	58,500	1,445,000	58,500	1,447,000	55,500	1,495,000	54,500	2,482,000
27	4,000	3,455,000	53,800	3,453,000	53,800	3,463,000	50,000	3,504,000	55,500	4,002,000
26	3,000	3,483,000	50,000	3,483,000	50,000	3,484,000	50,000	3,504,000	50,000	3,983,000
25	3,000	3,468,000	50,000	3,468,000	50,000	3,469,000	55,500	3,469,000	53,000	3,483,000
24	1,705,500	1,000,000	1,000,000	2,705,500	2,000,000	2,000,000	2,000,000	2,000,000	1,000,000	3,005,500
23	1,705,500	1,000,000	1,000,000	2,705,500	2,000,000	2,000,000	2,000,000	2,000,000	1,000,000	3,005,500
22	1,705,500	1,000,000	1,000,000	2,705,500	2,000,000	2,000,000	2,000,000	2,000,000	1,000,000	3,005,500
21	2,000	1,250,000	1,020,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
20	1,704,700	13,000	2,989,000	3,065,000	2,300,000	3,220,000	3,030,000	2,865,000	1,000,000	2,869,000
19	67,600	2,159,000	65,800	2,567,000	63,000	2,829,000	63,000	2,865,000	63,000	2,869,000
18	63,000	2,870,000	64,600	2,964,000	64,300	2,989,000	61,700	2,997,000	57,800	3,008,000
17	55,100	3,025,000	57,200	3,041,000	59,500	3,054,000	61,900	3,065,000	63,400	3,145,000
16	64,600	3,300,000	65,600	3,450,000	66,200	3,746,000	66,300	3,979,000	63,400	3,145,000
15	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
14	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
13	10,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
12	1,704,500	1,000,000	1,000,000	2,704,500	2,000,000	2,000,000	2,000,000	2,000,000	1,000,000	2,668,000
11	10,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
10	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
9	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
8	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
7	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
6	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
5	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
4	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
3	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
2	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
1	1,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000

BT	54.500	.000	3315.000	52.900	.000	2145.000	54.500	.000	1630.000	55.500
BT	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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X1	1704.000	19.000	2989.000	3065.000	100.000	100.000	100.000	.000	.000	.000
GR	57.500	2153.000	55.900	2557.000	53.900	2923.000	53.900	2955.000	53.000	2853.000
GR	53.000	2970.000	54.600	2964.000	54.900	2989.000	51.700	2997.000	57.800	3008.000
GR	55.100	3025.000	57.100	3041.000	59.500	3054.000	51.900	3155.000	53.400	3145.000
GR	54.500	3300.000	65.600	3450.000	66.200	3745.000	65.300	3979.000	.000	.000

NC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1704.300	26.000	2208.000	2278.000	1650.000	1140.000	1460.000	.000	.000	.000
GR	52.900	1500.000	58.900	1501.000	58.900	1502.000	55.300	1615.000	54.300	1686.000
GR	54.900	1958.000	55.700	2158.000	55.700	2187.000	55.300	2207.000	55.200	2208.000
GR	51.100	2220.000	57.900	2230.000	57.000	2235.000	56.100	2244.000	57.000	2253.000
GR	57.800	2251.000	51.400	2270.000	54.800	2278.000	54.900	2281.000	55.000	2294.000
GR	55.200	2290.000	55.500	2297.000	54.900	2398.000	54.700	2539.000	55.100	2554.000
GR	57.900	2749.000	.000	.000	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1704.200	26.000	2220.000	2270.000	120.000	120.000	120.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	56.300	55.300	.000
GR	58.900	1500.000	58.900	1501.000	58.900	1502.000	55.300	1615.000	54.300	1686.000
GR	54.900	1958.000	55.700	2158.000	55.700	2187.000	55.300	2207.000	55.200	2208.000
GR	55.200	2220.000	57.100	2234.000	57.000	2235.000	56.100	2244.000	57.000	2253.000
GR	51.000	2251.000	54.500	2270.000	54.800	2278.000	54.900	2281.000	55.000	2294.000
GR	55.200	2290.000	55.500	2297.000	54.900	2398.000	54.700	2539.000	55.100	2554.000
GR	57.900	2749.000	.000	.000	.000	.000	.000	.000	.000	.000

SB	1.000	1.550	2.600	.000	13.500	3.500	247.000	2.000	55.500	55.500
X1	1704.100	.000	.000	.000	33.000	32.000	33.000	.000	.000	.000
X2	.000	.000	1.000	55.500	57.100	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	55.300	55.300	.000
BT	12.000	1665.000	57.100	.000	1984.000	55.500	.000	2109.000	55.300	.000
BT	2155.000	55.700	.000	2191.000	55.900	.000	2245.000	57.100	.000	2291.000
BT	55.900	.000	2408.000	55.300	.000	2537.000	55.700	.000	2750.000	55.500
BT	.000	2955.000	55.900	.000	3278.000	55.100	.000	.000	.000	.000

X1	1704.000	25.000	2208.000	2278.000	75.000	75.000	75.000	.000	.000	.000
GR	58.900	1500.000	58.900	1501.000	58.900	1502.000	55.300	1615.000	54.300	1686.000
GR	54.900	1958.000	55.700	2158.000	55.700	2187.000	55.300	2207.000	55.200	2208.000
GR	51.100	2220.000	57.900	2230.000	57.000	2235.000	56.100	2244.000	57.000	2253.000
GR	57.800	2251.000	51.400	2270.000	54.300	2278.000	54.900	2281.000	55.000	2294.000
GR	55.200	2290.000	55.500	2297.000	54.900	2398.000	54.700	2539.000	55.100	2554.000
GR	57.900	2749.000	.000	.000	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1703.000	7.000	1746.000	1821.000	1850.000	1940.000	1870.000	.000	.000	.000
GR	72.900	1538.000	72.900	1699.000	71.100	1746.000	58.900	1790.000	55.500	1797.000
GR	58.900	1804.000	71.500	1821.000	.000	.000	.000	.000	.000	.000

X1	1702.500	12.000	4012.000	4086.000	1440.000	1440.000	1440.000	.000	.000	.000
GR	70.000	3500.000	58.000	3583.000	59.000	3885.000	71.500	4012.000	58.800	4041.000
GR	57.500	4045.000	55.800	4050.000	55.500	4052.000	55.800	4054.000	57.500	4058.000
GR	58.800	4063.000	71.000	4086.000	.000	.000	.000	.000	.000	.000

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X1	1702.000	12.000	4187.000	4257.000	800.000	800.000	800.000	.000	.000	.000
GR	70.400	3149.000	70.400	3150.000	59.800	3465.000	59.000	3900.000	70.200	4081.000

BR	55.100	4248.000	70.000	4257.000	.000	.000	.000	.000	.000	.000
X1	1701.700	26.000	4138.000	4203.000	1210.000	1210.000	1210.000	.000	.000	.000
BR	70.000	1138.000	70.000	1138.000	70.000	1138.000	70.000	1138.000	70.000	1138.000
BR	67.900	3689.000	67.800	3690.000	66.600	3739.000	67.200	4010.000	69.000	4032.000
BR	58.400	4136.000	58.800	4138.000	57.900	4162.000	55.800	4175.000	57.900	4197.000
BR	66.600	4202.000	68.200	4205.000	59.200	4272.000	66.000	4317.000	66.400	4361.000
BR	68.200	5181.000	68.500	5262.000	68.300	5692.000	68.900	5700.000	70.300	6156.000
BR	70.500	6426.000	.000	.000	.000	.000	.000	.000	.000	.000
YC	.000	.000	.000	.000	.500	.000	.000	.000	.000	.000
Y1	1701.500	.000	.000	.000	100.000	100.000	100.000	.000	.000	.000
Y3	10.000	.000	.000	.000	.000	.000	.000	67.000	67.000	.000
SB	1.000	1.560	2.600	.000	20.000	3.000	298.000	1.600	56.500	56.500
X1	1701.500	.000	.000	.000	25.000	25.000	25.000	.000	.000	.000
X2	.000	.000	1.000	65.500	58.500	.000	.000	.000	.000	.000
XC	10.000	.000	.000	.000	.000	.000	.000	58.500	58.500	.000
BT	7.000	2923.000	66.900	.000	4023.000	67.700	.000	4146.000	68.500	.000
BT	4205.000	68.500	.000	4272.000	58.500	.000	4776.000	67.900	.000	4993.000
BT	58.500	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	1701.400	.000	.000	.000	50.000	50.000	50.000	.000	.000	.000
NC	.000	.000	.000	.100	.300	.000	.000	.000	.000	.000
BT	2.000	1080.000	830.000	.000	.000	.000	.000	.000	.000	.000
X1	1701.000	18.000	5185.000	5359.000	1600.000	1300.000	1825.000	.819	.000	.000
BR	70.000	4088.000	68.800	4089.000	68.600	4255.000	68.200	4524.000	68.500	4746.000
BR	67.400	5066.000	69.200	5101.000	69.400	5185.000	60.600	5300.000	68.400	5314.000
BR	60.500	5329.000	61.800	5353.000	67.600	5359.000	68.000	5430.000	67.200	5506.000
BR	57.400	6224.000	68.200	6322.000	70.000	8900.000	.000	.000	.000	.000
EC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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

\*PROF 1

CCHV= .100 CEHV= .300

\*SECNO 1766.000

3265 DIVIDED FLOW

1766.00	14.40	13.00	.00	13.00	13.02	.02	.00	.00	9.60
9040.	3023.	1613.	4404.	3261.	797.	6548.	0.	0.	8.60
.00	.93	2.02	.67	.040	.045	.040	.000	-1.40	3053.55
.000169	0.	0.	0.	0	0	0	.00	6893.82	10000.00

CCHV= .300 CEHV= .500

\*SECNO 1765.400

3265 DIVIDED FLOW

1765.40	14.56	13.46	.00	.00	13.48	.02	.45	.00	9.40
9040.	1839.	1929.	5272.	2751.	1053.	7001.	785.	537.	9.80
.92	.67	1.83	.75	.040	.045	.040	.000	-1.10	3802.56
.000124	3550.	3140.	3000.	2	0	0	.00	7700.28	11524.54

\*SECNO 1765.300

0265 DIVIDED FLOW

1755.00	14.87	13.47	.00	.00	13.49	.02	.01	.00	8.10
9040.	1827.	1802.	5311.	2818.	947.	6978.	797.	546.	8.10
.88	.88	1.30	.75	.040	.045	.040	.000	-1.10	3783.97
.000128	55.	50.	45.	0	0	0	.00	7746.75	11344.91

SPECIAL BRIDGE

EG	XKCR	COFB	RDLEN	BWC	BWP	BAREA	SS	ELCRU	ELCRG
1.00	1.55	3.00	.00	28.00	6.30	435.00	3.00	-1.10	-1.10

\*SECNO 1755.200

0265 DIVIDED FLOW

1

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SECNO	DEPTH	CWSEL	CRWS	WSELX	EG	HV	HL	CROSS	BANK	ELEV
Q	QLOB	QCH	QRQB	ALOB	ACH	ARQB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VRQB	XLN	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLQBR	ITRIAL	IDC	ICONT	CRAR	TOPWID	ENDST	

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
						AREA		
23.30	13.49	.00	8032.	996.	435.	435.	8.10	9.50

1765.00	14.68	13.58	.00	.00	13.60	.02	.11	.00	8.10
9040.	1989.	1701.	5350.	3260.	957.	7497.	802.	550.	8.10
.94	.61	1.78	.71	.040	.045	.040	.000	-1.10	3147.32
.000110	18.	18.	18.	1	0	6	.00	8691.07	11869.54

0

CCHV= .100 CEHV= .300  
\*SECNO 1765.100

0265 DIVIDED FLOW

1765.10	14.59	13.59	.00	.00	13.60	.01	.01	.00	8.40
9040.	1905.	1818.	5316.	3210.	1055.	7544.	815.	559.	8.60
.95	.59	1.71	.70	.040	.045	.040	.000	-1.10	3156.40
.000107	55.	50.	45.	0	0	0	.00	8688.77	11864.76

0

CCHV= .300 CEHV= .500  
\*SECNO 1764.600

1764.60	14.22	14.02	.00	.00	14.04	.02	.43	.00	11.10
9040.	1463.	3521.	4056.	1690.	2215.	4611.	1586.	1026.	11.40
1.75	.87	1.59	.88	.040	.045	.040	.000	-.20	6085.56
.000163	3380.	3400.	3245.	2	0	0	.00	3627.69	9713.25-

0

\*SECNO 1764.500

1764.50	14.23	14.03	.00	.00	14.05	.02	.01	.00	11.10
9040.	1466.	3511.	4063.	1688.	2218.	4637.	1600.	1033.	11.40
1.77	.86	1.58	.88	.040	.045	.040	.000	-.20	6084.20
.000162	75.	75.	75.	0	0	0	.00	3698.12	9782.32

0

\*SECNO 1764.400

1



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

3255 DIVIDED FLOW

3070 NORMAL BRIDGE, NRD= 5 MIN ELTRD= 13.30 MAX ELLC= 15.10

1754.40	14.21	14.01	.00	.00	14.07	.05	.00	.02	14.50
9040.	1747.	5071.	2222.	2400.	1979.	2362.	1602.	1034.	14.30
1.77	.73	2.56	.94	.040	.045	.040	.000	-.20	3481.75
.000467	10.	10.	10.	1	0	0	-13.54	5635.24	9746.58

0

\*SECNO 1754.300

3265 DIVIDED FLOW

3070 NORMAL BRIDGE, NRD= 5 MIN ELTRD= 13.30 MAX ELLC= 15.10

1754.30	14.24	14.04	.00	.00	14.10	.06	.02	.00	14.50
9040.	1759.	5052.	2229.	2418.	1980.	2376.	1510.	1040.	14.30
1.78	.73	2.55	.94	.040	.045	.040	.000	-.20	3481.75
.000462	50.	50.	50.	0	0	0	-13.86	5675.87	9787.03

0

\*SECNO 1754.200

1754.20	14.29	14.09	.00	.00	14.11	.02	.00	.01	11.10
9040.	1484.	3456.	4100.	1749.	2238.	4778.	1612.	1041.	11.40
1.73	.85	1.54	.86	.040	.045	.040	.000	-.20	6075.64
.000152	10.	10.	10.	2	0	0	.00	4141.51	10217.15

0

CCHV= .100 CEHV= .300

\*SECNO 1754.100

1754.10	14.30	14.10	.00	.00	14.12	.02	.01	.00	11.10
9040.	1488.	3439.	4113.	1762.	2243.	4832.	1627.	1049.	11.40
1.80	.84	1.53	.85	.040	.045	.040	.000	-.20	6073.31
.000149	75.	75.	75.	1	0	0	.00	4262.21	10335.53

0

\*SECNO 1754.000

1754.00	14.25	14.15	.00	.00	14.17	.02	.04	.00	11.20
8650.	1411.	3347.	3892.	1714.	2225.	4653.	1687.	1076.	11.50
1.88	.82	1.50	.84	.040	.045	.040	.000	-.10	6081.41
.000145	300.	300.	300.	0	0	0	.00	3842.95	9924.36

0

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

\*SECNO 1763.900

1763.90	15.38	14.58	.00	.00	14.61	.03	.44	.00	11.30
6300.	2031.	2665.	1604.	2983.	1382.	1624.	2203.	1299.	10.50
2.55	.68	1.93	.99	.040	.045	.040	.000	-.80	6544.30
.000138	3000.	3180.	3100.	1	0	0	.00	2491.56	9025.85

\*SECNO 1763.700

1763.70	15.25	14.56	.00	.00	14.70	.03	.09	.00	11.50
6300.	1921.	2779.	1599.	2744.	1067.	1561.	2290.	1331.	10.70
2.57	.70	2.03	1.02	.040	.045	.040	.000	-.50	6544.48
.000156	550.	600.	600.	0	0	0	.00	2491.13	9035.51

CCHV= .300 CEHV= .500

\*SECNO 1763.600

1763.60	15.28	14.53	.00	.00	14.71	.03	.01	.00	11.50
6300.	2015.	2512.	1772.	2994.	1201.	1574.	2292.	1337.	6.90
2.59	.67	2.09	1.06	.040	.045	.040	.000	-.50	5971.15
.000157	90.	90.	90.	0	0	0	.00	2964.48	9035.63

SPECIAL BRIDGE

5070, VARIABLE ELOCHU OR ELOCHD ON CARD SB NOT SPECIFIED

SB	XX	XXOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELOCHU	ELOCHD
1.00	1.56	2.90	.00	42.00	7.40	747.00	2.50	-1.50	-1.50	-1.50

\*SECNO 1763.500

PRESSURE AND WEIR FLOW

ESPRB	ESLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
16.40	14.72	.00	5294.	1005.	747.	804.	11.70	13.00

1763.50	15.29	14.59	.00	.00	14.72	.03	.01	.00	11.50
6300.	2027.	2501.	1772.	3022.	1203.	1680.	2295.	1338.	6.90
2.69	.67	2.08	1.06	.040	.045	.040	.000	-.50	6071.07
.000155	19.	19.	19.	2	0	6	.00	2964.58	9035.65

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SECNO	DEPTH	CWSEL	CRWS	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	XLORR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

\*SECNO 1763.400

1763.40	15.30	14.70	.00	.00	14.74	.03	.01	.00	11.50
6300.	2002.	2714.	1584.	3054.	1371.	1580.	2307.	1344.	10.70
2.71	.65	1.98	1.00	.040	.045	.040	.000	-.50	6070.98
.000147	90.	90.	90.	0	0	0	.00	2964.70	9035.68

CCHV= .100 CEHV= .300

\*SECNO 1763.200

1763.20	15.25	14.75	.00	.00	14.78	.03	.05	.00	11.50
6300.	1949.	2767.	1584.	2929.	1365.	1554.	2348.	1365.	10.80
2.77	.67	2.03	1.02	.040	.045	.040	.000	-.50	6071.33
.000155	300.	300.	300.	0	0	0	.00	2964.25	9035.58

\*SECNO 1763.000

1763.00	15.21	14.91	.00	.00	14.94	.04	.16	.00	11.80
6300.	1898.	2818.	1584.	2811.	1259.	1529.	2481.	1433.	11.00
2.97	.68	2.07	1.04	.040	.045	.040	.000	-.30	6071.67
.000163	1000.	1000.	1000.	0	0	0	.00	2963.81	9035.48

\*SECNO 1762.800

1762.30	15.60	15.40	.00	.00	15.41	.02	.47	.00	13.50
6300.	1675.	1677.	2948.	3112.	1144.	3163.	3083.	1710.	13.70
4.12	.54	1.47	.92	.040	.045	.040	.000	-.20	7135.05
.000098	4000.	4000.	4000.	2	0	0	.00	3074.71	10314.55

\*SECNO 1762.500

3265 DIVIDED FLOW

1762.50	15.46	15.46	.00	.00	15.48	.02	.07	.00	13.70
6300.	1584.	1744.	2972.	3846.	1130.	3040.	3201.	1759.	13.90
4.31	.55	1.54	.98	.040	.045	.040	.000	.00	7223.13
.000099	680.	770.	730.	2	0	0	.00	2980.70	10314.21

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	WV	HL	DLSS	BANK ELEV
2	GLDB	QCH	QROB	ALDB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

COHV= .300 CEHV= .500  
\*SECNO 1762.400

3265 DIVIDED FLOW

1762.40	15.47	15.47	.00	.00	15.49	.02	.01	.00	13.70
6300.	1590.	1739.	2971.	2864.	1131.	3049.	3215.	1766.	13.90
4.34	.56	1.54	.97	.040	.045	.040	.000	.00	7216.92
.000099	100.	100.	100.	0	0	0	.00	2987.34	10314.24

SPECIAL BRIDGE

SB	XK	XKOR	COFD	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.90	.00	29.30	6.30	578.00	2.00	.50	.50

\*SECNO 1762.300

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	
	19.35	15.49	.00	5193.	1121.	578.	571.	12.60	13.80

1762.30	15.55	15.55	.00	.00	15.56	.02	.07	.00	13.70
6300.	1648.	1697.	2955.	3030.	1140.	3126.	3221.	1767.	13.90
4.35	.54	1.49	.95	.040	.045	.040	.000	.00	7161.70
.000091	19.	19.	19.	1	0	7	.00	3046.27	10314.52

\*SECNO 1762.200

3265 DIVIDED FLOW

1762.20	15.56	15.56	.00	.00	15.57	.02	.01	.00	13.70
6300.	1648.	1697.	2955.	3030.	1140.	3126.	3236.	1773.	13.90
4.37	.54	1.49	.95	.040	.045	.040	.000	.00	7161.70
.000091	19.	19.	19.	1	0	7	.00	3046.27	10314.52

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

CCHV= .100 CEHV= .300  
 \*SECNO 1762.000

3265 DIVIDED FLOW

1762.00	15.48	15.58	.90	.00	15.60	.02	.03	.00	13.30
6090.	1598.	1733.	2969.	2885.	1132.	3059.	3285.	1794.	14.00
4.45	.55	1.53	.97	.040	.045	.040	.000	.10	7209.98
.000098	300.	300.	300.	0	0	0	.00	2994.74	10314.28

\*SECNO 1761.000

3265 DIVIDED FLOW

1761.00	15.36	16.36	.00	.00	16.55	.28	.97	.08	16.90
6090.	0.	5550.	540.	0.	1241.	633.	3688.	1999.	17.50
4.72	.00	4.47	.85	.050	.050	.050	.000	1.00	5894.03
.001460	3730.	4070.	3970.	2	0	0	.00	1616.54	7521.68

\*SECNO 1760.800

3265 DIVIDED FLOW

1760.80	15.68	17.88	.00	.00	17.98	.10	1.32	.02	17.00
6090.	225.	4145.	1720.	546.	1395.	1505.	3780.	2063.	17.70
4.90	.41	2.97	1.14	.050	.060	.050	.000	1.20	4659.35
.000571	1500.	1530.	1500.	2	0	0	.00	2116.48	6853.89

\*SECNO 1760.400

3265 DIVIDED FLOW

1760.40	17.13	18.83	.00	.00	18.87	.05	.89	.01	18.20
6090.	1385.	2801.	1904.	1146.	1221.	2080.	3967.	2165.	17.60
5.26	1.21	2.29	.92	.050	.060	.050	.000	1.70	5464.46
.000329	2150.	2140.	1950.	2	0	0	.00	2248.83	7804.07

CCHV= .600 CEHV= .800

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

\*SECNO 1760.300

3265 DIVIDED FLOW

1760.30	17.16	18.86	.00	.00	18.91	.04	.03	.00	14.00
6090.	1320.	2881.	1889.	1224.	1308.	2249.	3977.	2170.	14.10
5.28	1.00	2.20	.84	.050	.050	.050	.000	1.70	5464.46

SPECIAL BRIDGE

SS	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELDHD	ELCHD
	1.00	1.56	2.50	.00	53.40	7.00	955.00	1.30	2.50	2.50

\*SECNO 1760.200  
PRESSURE AND WEIR FLOW

ESPRS	EGLWC	H3	DWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
19.85	18.91	.00	2909.	3180.	955.	954.	16.00	17.50

1760.20	17.04	18.74	.00	.00	19.13	.39	.23	.00	18.20
6090.	0.	6088.	1.	1.	1212.	2.	3979.	2171.	17.60
5.28	.49	5.02	.77	.050	.060	.050	.000	1.70	5874.80
.001591	21.	21.	21.	2	0	3	.00	102.99	5977.79

\*SECNO 1760.100

1760.10	17.18	18.88	.00	.00	19.26	.38	.12	.01	18.20
6090.	1.	6088.	2.	1.	1226.	2.	3981.	2171.	17.60
5.28	.56	4.97	.82	.050	.060	.050	.000	1.70	5873.98
.001533	80.	80.	80.	2	0	0	.00	104.15	5978.13

CCHV= .100 CEHV= .300

\*SECNO 1759.000

1759.00	20.73	23.73	.00	.00	23.96	.23	4.59	.02	19.90
6090.	43.	5977.	70.	34.	1542.	53.	4125.	2184.	21.50
5.50	1.27	3.88	1.32	.050	.060	.050	.000	3.00	5447.25
.000786	3930.	4330.	4280.	3	0	0	.00	155.65	5502.90

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SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	CLOSS	BANK ELEV
B	BLOB	BCH	BROB	ALOB	ACH	AROB	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 1758.000

1758.00	22.10	25.80	.00	.00	25.97	.17	2.01	.01	20.10
6090.	157.	5629.	305.	102.	1551.	158.	4254.	2196.	20.30
5.87	1.53	3.41	1.93	.050	.060	.050	.000	3.70	4025.13
.000520	3300.	3170.	3100.	3	0	0	.00	172.63	4198.75

CCHV= .600 CEHV= .800

\*SECNO 1757.800

1757.80	22.38	26.08	.00	.00	26.08	.00	.01	.10	20.90
6090.	3399.	1319.	1371.	7401.	1781.	3658.	4271.	2200.	20.90
5.92	.46	.74	.37	.050	.060	.050	.000	3.70	1753.61
.000024	100.	100.	100.	2	0	0	.00	2769.09	4522.70

CCHV= .100 CEHV= .300

\*SECNO 1757.500

1757.50	21.85	26.15	.00	.00	26.15	.01	.07	.00	21.50
6090.	3355.	1452.	1283.	6654.	1721.	3048.	4997.	2362.	21.50
7.20	.50	.84	.42	.050	.060	.050	.000	4.30	1782.20
.000033	2520.	2660.	2770.	2	0	0	.00	2592.21	4374.42

CCHV= .300 CEHV= .500

\*SECNO 1757.500

1757.50	21.95	26.15	.00	.00	26.15	.01	.00	.00	21.50
6090.	3355.	1452.	1293.	6657.	1722.	3350.	5013.	2365.	21.50
7.23	.50	.84	.42	.050	.060	.050	.000	4.30	1782.09
.000033	60.	60.	60.	0	0	0	.00	2592.90	4375.02

SPECIAL BRIDGE

BB	XX	XXCR	COFI	RDLEN	BWC	BWP	BAREA	SS	ELDHU	ELCHD
	1.05	1.55	2.80	.00	32.90	7.00	1107.00	2.50	5.00	5.00

\*SECNO 1757.400

PRESSURE AND WEIR FLOW

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SECNO	DEPTH	CWSEL	CRWS	WSELX	ES	HV	HL	CLOSS	BANK ELEV
0	QLOB	QCH	GRDB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRDB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
						AREA		
26.88	26.16	.00	3585.	2506.	1107.	1106.	21.50	21.70

1757.40	21.97	26.27	.00	.00	26.27	.01	.12	.00	21.50
6090.	4308.	1769.	12.	7327.	1735.	44.	5017.	2366.	21.50
7.24	.59	1.02	.27	.050	.060	.050	.000	4.30	1319.22
.000047	16.	16.	16.	0	0	6	.00	2012.27	3331.49

\*SECNO 1757.300

1757.30	21.97	26.27	.00	.00	26.28	.01	.00	.00	21.50
6090.	4307.	1771.	12.	7315.	1735.	44.	5027.	2368.	21.50
7.25	.59	1.02	.28	.050	.060	.050	.000	4.30	1320.93
.000047	50.	50.	50.	0	0	0	.00	2010.43	3331.36

CCHV= .100 CEHV= .300

\*SECNO 1756.500

3265 DIVIDED FLOW

1756.50	22.19	26.39	.00	.00	26.41	.02	.13	.00	24.00
6090.	3742.	2312.	36.	5071.	1646.	68.	5363.	2452.	24.00
7.76	.74	1.40	.53	.050	.060	.050	.000	4.20	2246.15
.000112	1900.	1660.	1200.	2	0	0	.00	1858.09	4198.42

\*SECNO 1756.000

3265 DIVIDED FLOW

1756.00	22.11	26.51	.00	.00	26.53	.02	.12	.00	24.20
6090.	3704.	2351.	35.	4938.	1636.	65.	5526.	2496.	24.20
8.06	.75	1.44	.53	.050	.060	.050	.000	4.40	2270.57
.000118	1050.	1080.	1000.	2	0	0	.00	1833.03	4198.30

\*SECNO 1755.900

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.000151	18.	18.	18.	0	0	0	0	0	0	0
*SECNO 1754.500										
1754.50	24.22	28.52	.00	.00	28.54	.02	.01	.00	25.10	
4190.	2355.	1518.	317.	2383.	1063.	453.	5932.	2614.	25.10	
9.86	.99	1.43	.69	.050	.070	.050	.000	4.30	2773.63	
.000151	40.	40.	40.	0	0	0	0	0	0	0

CCHV=	.100	CEHV=	.300							
*SECNO 1754.400										
1754.40	23.04	28.64	.00	.00	28.67	.02	.12	.00	24.00	
4190.	2119.	1900.	171.	2429.	1177.	210.	5997.	2629.	25.30	
9.02	.87	1.61	.81	.050	.070	.050	.000	5.50	2638.34	
.000180	730.	730.	730.	0	0	0	0	0	0	0

CCHV=	.300	CEHV=	.500							
*SECNO 1754.300										
1754.30	23.05	28.55	.00	.00	28.58	.03	.01	.00	21.80	
4190.	2279.	1640.	272.	2521.	957.	283.	6004.	2630.	21.80	
9.04	.90	1.71	.95	.050	.070	.050	.000	5.50	2639.41	
.000185	80.	80.	80.	0	0	0	0	0	0	0

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	BANK	ELEV
B	BLOB	QCH	GRQB	ALOB	ACH	ARQB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VRQB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLDBL	XLCH	XLOBR	ITRIAL	IDC	ICBNT	CCRAR	TOPWID	ENDST	

SPECIAL BRIDGE

SB	XK	XKGR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.70	.00	18.80	4.00	531.00	1.30	6.50	6.50

\*SECNO 1754.200  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	BPR	BAREA	TRAPEZOID	ELLC	ELTRD
						AREA		
30.16	29.68	.00	1942.	2285.	531.	531.	21.80	22.70

1754.20	23.48	29.08	.00	.00	29.10	.02	.42	.00	21.80
4190.	2429.	1476.	285.	2887.	981.	322.	6005.	2631.	21.80
9.04	.84	1.51	.88	.050	.070	.050	.000	5.50	2638.44
.000138	13.	13.	13.	1	0	4	.00	977.36	3615.80

*SECNO 1754.100										
1754.10	23.49	29.09	.00	.00	29.11	.02	.01	.00	24.00	
4190.	2283.	1719.	188.	2804.	1213.	246.	6010.	2632.	25.30	
9.06	.81	1.42	.76	.050	.070	.050	.000	5.50	2638.44	
.000133	50.	50.	50.	0	0	0	.00	977.35	3615.79	

CCHV= .100 CEHV= .300  
\*SECNO 1754.000

3265 DIVIDED FLOW

1754.00	23.55	29.15	.00	.00	29.17	.01	.06	.00	24.00
4190.	2413.	1601.	175.	3589.	1218.	278.	6062.	2645.	25.30

SECNO	DEPTH	CWSEL	CRWS	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	GSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICDNT	CDRAR	TOPWID	ENDST

3265 DIVIDED FLOW

1755.90	22.05	25.55	.00	.00	25.55	.02	.04	.00	24.30
6090.	3671.	2385.	34.	4828.	1528.	63.	5571.	2509.	24.30
8.14	.76	1.47	.54	.050	.060	.050	.000	4.50	2290.86
.000123	300.	300.	300.	0	0	0	.00	1812.20	4139.19

0

\*SECNO 1755.500

1755.50	22.61	26.91	.00	.00	27.07	.15	.46	.04	23.80
5750.	574.	5176.	0.	650.	1541.	0.	5756.	2566.	28.00
8.31	.88	3.36	.00	.050	.060	.050	.000	4.30	2594.64
.000721	1750.	2000.	2000.	2	0	0	.00	986.29	3580.94

0

\*SECNO 1755.000

1755.00	23.57	27.77	.00	.00	27.81	.03	.73	.01	24.10
4190.	1496.	2694.	0.	1775.	1605.	0.	5862.	2597.	29.10
8.66	.84	1.68	.00	.050	.070	.050	.000	4.20	2702.99
.000233	1400.	1860.	1950.	2	0	0	.00	877.61	3580.60

0

\*SECNO 1754.800

1754.80	23.65	27.95	.00	.00	27.98	.03	.17	.00	25.10
4190.	2239.	1700.	251.	2064.	1022.	356.	5921.	2611.	25.10
8.82	1.08	1.66	.70	.050	.070	.050	.000	4.30	2776.25
.000215	725.	800.	760.	2	0	0	.00	802.96	3579.21

0

CCHV= .300 CEHV= .500

\*SECNO 1754.700

1754.70	23.57	27.97	.00	.00	27.99	.03	.02	.00	25.10
4190.	2243.	1694.	253.	2074.	1024.	359.	5927.	2613.	25.10
8.84	1.08	1.66	.70	.050	.070	.050	.000	4.30	2776.17
.000213	80.	80.	80.	0	0	0	.00	803.13	3579.30

0

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SECNO	DEPTH	CWSEL	CRWS	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	GSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICDNT	CDRAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XX	XXOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	19.60	5.00	669.00	1.20	5.50	5.50

\*SECNO 1754.600

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
						AREA		
28.92	28.00	.00	903.	3249.	669.	669.	23.80	25.00

1754.60	24.22	28.52	.00	.00	28.54	.02	.54	.00	25.10
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9.20	.67	1.32	.63	.050	.070	.050	.000	5.60	2271.79
.000114	480.	480.	480.	0	0	0	.00	1374.55	3670.06

\*SECNO 1753.500

1753.50	20.21	29.41	.00	.00	29.43	.02	.25	.00	23.60
4190.	1827.	1511.	852.	2447.	1000.	954.	6266.	2705.	24.70
9.70	.75	1.51	.89	.050	.070	.050	.000	9.20	3383.08
.000164	1880.	1880.	1880.	1	0	0	.00	1412.35	4795.44

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

CCHV= .300 CEHV= .500

\*SECNO 1753.400

1753.40	20.22	29.42	.00	.00	29.44	.02	.02	.00	23.60
4190.	1834.	1502.	854.	2472.	1002.	961.	6275.	2708.	24.70
9.73	.74	1.50	.89	.050	.070	.050	.000	9.20	3377.50
.000162	100.	100.	100.	0	0	0	.00	1417.98	4795.47

SPECIAL BRIDGE

SB	XK	XKOR	COFB	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.90	.00	27.10	4.70	682.00	1.60	10.00	10.00	

\*SECNO 1753.300

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
30.34	29.44	.00	3158.	1031.	682.	682.	24.80	25.90

1753.30	20.26	29.46	.00	.00	29.48	.02	.04	.00	23.60
4190.	1851.	1482.	857.	2525.	1005.	974.	6279.	2709.	24.70
9.73	.73	1.47	.88	.050	.070	.050	.000	9.20	3365.75
.000156	28.	28.	28.	1	0	6	.00	1429.80	4795.55

\*SECNO 1753.200

1753.20	20.27	29.47	.00	.00	29.49	.02	.01	.00	23.60
4190.	1850.	1483.	857.	2524.	1005.	973.	6284.	2711.	24.70
9.75	.73	1.48	.88	.050	.070	.050	.000	9.20	3366.03
.000156	50.	50.	50.	0	0	0	.00	1429.52	4795.55

CCHV= .100 CEHV= .300

\*SECNO 1753.000

1753.00	20.32	29.52	.00	.00	29.54	.03	.05	.00	23.60
4190.	1536.	1673.	982.	1489.	1008.	986.	6312.	2718.	24.70
9.81	1.03	1.66	1.00	.050	.070	.050	.000	9.20	4075.33
.000196	300.	300.	300.	0	0	0	.00	720.30	4795.63

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SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT

SLOPE	XLOBL	XLCH	XLDBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 1752.300									
1752.30	19.99	29.69	.00	.00	29.70	.01	.15	.00	24.10
4190.	2782.	1166.	242.	4487.	985.	389.	6430.	2749.	25.20
10.21	.52	1.19	.52	.050	.070	.050	.000	9.70	2910.42
.000103	1100.	1100.	1100.	2	0	0	.00	1760.90	4671.23

0  
CCHV= .600 CEHV= .300

*SECNO 1752.200									
1752.20	19.87	29.97	.00	.00	29.99	.02	.19	.01	24.80
4190.	1263.	1916.	1111.	1282.	1194.	1190.	6583.	2790.	25.40
10.53	.99	1.52	.93	.050	.070	.050	.000	10.00	1021.40
.000177	1360.	1410.	1510.	2	0	0	.00	750.08	1771.47

*SECNO 1752.100									
1752.10	19.92	29.92	.00	.00	30.07	.14	.08	.10	24.80
4190.	183.	3923.	83.	126.	1253.	63.	5597.	2792.	25.40
10.55	1.46	3.13	1.33	.050	.070	.050	.000	10.00	3520.70
.000691	250.	250.	250.	1	0	0	.00	165.07	3685.77

*SECNO 1752.000									
1752.00	20.21	30.21	.00	.00	30.25	.05	.13	.06	24.80
4190.	530.	2557.	1103.	648.	1279.	865.	6613.	2795.	25.40
10.60	.82	2.00	1.28	.050	.070	.050	.000	10.00	4338.81
.000274	350.	300.	350.	2	0	0	.00	635.32	4974.13

0  
CCHV= .100 CEHV= .300

*SECNO 1751.800									
1751.80	20.79	30.38	.00	.00	30.38	.01	.12	.00	26.60
4190.	818.	979.	2392.	2359.	1133.	4916.	6772.	2852.	26.30
11.19	.35	.86	.49	.050	.070	.050	.000	9.60	3159.92
.000056	1050.	850.	1500.	2	0	0	.00	3281.58	6441.50

0  
CCHV= .300 CEHV= .500

*SECNO 1751.700									
1751.70	20.78	30.38	.00	.00	30.39	.01	.01	.00	26.60
4190.	822.	975.	2393.	2378.	1134.	4937.	6792.	2859.	26.30
11.24	.35	.86	.48	.050	.070	.050	.000	9.60	3154.08
.000056	100.	100.	100.	1	0	0	.00	3289.87	6443.95

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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.90	.00	20.80	6.30	653.00	2.00	11.00	11.00

\*SECNO 1751.600  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
31.38	30.39	.00	2116.	2075.	653.	698.	26.40	27.00

1751.50	21.02	30.52	.00	.00	30.53	.00	.24	.00	25.50
4190.	890.	898.	2403.	2756.	1154.	5345.	6795.	2861.	26.30
11.25	.32	.78	.45	.050	.070	.050	.000	9.50	3042.18
.000045	18.	18.	18.	0	0	5	.00	3448.57	5490.85

\*SECNO 1751.500

1751.50	20.92	30.52	.00	.00	30.53	.00	.00	.00	25.70
4190.	861.	929.	2399.	2592.	1146.	5170.	6806.	2865.	26.40
11.28	.33	.81	.46	.050	.070	.050	.000	9.70	3089.72
.000049	50.	50.	50.	0	0	0	.00	3381.21	5470.93

CCHV= .100 CEHV= .300

\*SECNO 1751.300

1751.30	19.21	30.71	.00	.00	30.72	.01	.09	.00	25.10
4190.	1001.	989.	2200.	2326.	1008.	3967.	7087.	2972.	25.20
11.95	.43	.98	.55	.050	.070	.050	.000	11.50	1971.34
.000070	1490.	1530.	1530.	1	0	0	.00	2792.26	4763.59

CCHV= .300 CEHV= .500

\*SECNO 1751.200

1751.20	19.22	30.72	.00	.00	30.72	.01	.01	.00	25.50
4040.	862.	1295.	1882.	2271.	1449.	3857.	7105.	2978.	26.30
12.00	.38	.89	.49	.050	.070	.050	.000	11.50	1964.61
.000057	100.	100.	100.	0	0	0	.00	2799.04	4763.65

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SECNO	DEPTH	CWSEL	CRWS	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	XLJBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFD	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	47.70	8.20	1042.00	2.00	13.30	13.30

\*SECNO 1751.100

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
31.08	30.73	.00	1092.	2948.	1042.	1042.	28.30	29.80

1751.10	19.41	30.91	.00	.00	30.91	.01	.19	.00	25.50
4040.	908.	1219.	1913.	2546.	1470.	4116.	7111.	2980.	26.30
12.02	.36	.83	.46	.050	.070	.050	.000	11.50	1870.42
.000048	36.	36.	36.	0	0	4	.00	2894.06	4764.48

\*SECNO 1751.000

1751.00	19.41	30.91	.00	.00	30.92	.01	.00	.00	25.10
4040.	1011.	888.	2140.	2622.	1023.	4247.	7126.	2986.	25.20
12.06	.39	.87	.50	.050	.070	.050	.000	11.50	1870.94
.000054	80.	80.	80.	0	0	0	.00	2893.53	4764.47

CCHV= .100 CEHV= .300

\*SECNO 1750.800

1750.80	19.67	31.07	.00	.00	31.10	.03	.17	.01	26.80
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12.48	.63	1.57	1.03	.050	.070	.050	.000	11.40	1465.50
.000184	2400.	1820.	1625.	2	0	0	.00	1546.81	3012.31

0  
CCHV= .300 CEHV= .500  
\*SECNO 1750.700

1750.70	19.69	31.09	.00	.00	31.12	.02	.02	.00	27.00
4040.	1517.	2599.	14.	2008.	1768.	22.	7394.	3096.	27.00
12.51	.76	1.42	.64	.050	.070	.050	.000	11.40	1715.25
.000193	100.	100.	100.	1	0	0	.00	1131.53	2846.79

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

SPECIAL BRIDGE

SB	XK	XKDR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.15	1.56	2.60	.00	33.50	7.10	1010.00	2.50	12.50	12.50	

\*SECNO 1750.600  
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
31.48	31.18	.00	0.	4040.	1010.	1010.	28.00	32.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 32.30 ELREA= 32.30

1750.60	20.00	31.40	.00	.00	31.48	.08	.36	.00	27.00
4040.	0.	4040.	0.	0.	1820.	0.	7396.	3096.	27.00
12.51	.00	2.22	.00	.000	.070	.000	.000	11.40	2574.00
.000455	22.	22.	22.	2	0	0	.00	162.00	2836.00

0  
\*SECNO 1750.500

1750.50	20.09	31.49	.00	.00	31.51	.02	.01	.02	27.00
4040.	14.	2339.	1687.	22.	1834.	2560.	7399.	3097.	27.00
12.52	.63	1.29	.66	.050	.070	.050	.000	11.40	2662.81
.000148	60.	50.	50.	2	0	0	.00	1319.68	3982.49

0  
CCHV= .100 CEHV= .300

\*SECNO 1750.400

1750.40	20.06	31.56	.00	.00	31.59	.03	.08	.00	26.90
4040.	689.	2424.	927.	901.	1466.	1223.	7441.	3112.	26.30
12.62	.76	1.65	.76	.050	.070	.050	.000	11.50	2284.11
.000196	500.	450.	450.	2	0	0	.00	1416.76	3700.87

0  
\*SECNO 1750.300

1750.30	15.78	31.68	.00	.00	31.70	.02	.11	.00	28.10
4040.	670.	1721.	1649.	1302.	1065.	2277.	7494.	3139.	28.80
12.76	.51	1.62	.72	.050	.070	.050	.000	15.90	2749.36
.000227	700.	500.	500.	2	0	0	.00	2667.75	5417.11

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

CCHV= .300 CEHV= .500

\*SECNO 1750.200

1750.20	17.90	31.70	.00	.00	31.72	.02	.02	.00	28.10
4040.	700.	1635.	1705.	1329.	990.	2316.	7502.	3144.	27.80
12.78	.53	1.65	.74	.050	.070	.050	.000	13.80	2749.26
.000232	80.	80.	80.	0	0	0	.00	2672.42	5421.68

SPECIAL BRIDGE

SB	XK	XKGR	COFR	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	3.00	.00	18.80	5.10	651.00	2.00	15.50	15.50	

\*SECNO 1750.100

PRESSURE AND WEIR FLOW

ESPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
32.63	31.72	.00	2511.	1530.	651.	656.	30.50	32.00

1750.10	18.02	31.82	.00	.00	31.83	.02	.11	.00	28.10
4040.	761.	1535.	1744.	1479.	1001.	2496.	7506.	3146.	27.80
12.79	.51	1.53	.70	.050	.070	.050	.000	13.80	2748.55
.000198	33.	33.	33.	1	0	4	.00	2711.30	5459.84

\*SECNO 1750.000

1750.00	18.03	31.83	.00	.00	31.85	.02	.01	.00	28.10
4040.	723.	1661.	1655.	1476.	1118.	2485.	7513.	3149.	28.80
12.81	.49	1.49	.67	.050	.070	.050	.000	13.80	2748.53
.000181	60.	60.	60.	0	0	0	.00	2712.95	5461.48

CCHV= .100 CEHV= .300

\*SECNO 1749.900

1749.90	17.98	31.88	.00	.00	31.90	.02	.06	.00	28.20
4040.	702.	1695.	1641.	1423.	1115.	2422.	7547.	3168.	28.90
12.89	.49	1.52	.68	.050	.070	.050	.000	13.90	2748.78
.000190	300.	300.	300.	0	0	0	.00	2699.33	5448.10

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

\*SECNO 1749.000

3265 DIVIDED FLOW

1749.00	17.96	32.66	.00	.00	32.78	.11	.85	.03	30.20
4040.	100.	3252.	688.	131.	1097.	547.	7736.	3261.	30.20
13.14	.76	2.96	1.26	.050	.070	.050	.000	14.70	3339.26
.000853	2150.	2310.	2700.	2	0	0	.00	614.41	3961.32

1748.30	17.73	33.58	.00	.00	33.59	.02	.81	.01	27.90
3900.	2559.	1326.	15.	3355.	974.	29.	7927.	3320.	30.30
13.31	.76	1.36	.51	.050	.070	.050	.000	15.80	2070.20
.000151	2600.	2700.	2600.	2	0	0	.00	1345.26	3415.46

0

CCHV= .300 CEHV= .500

\*SECNO 1748.200

1748.20	17.79	33.59	.00	.00	33.51	.02	.02	.00	29.00
3900.	2584.	1288.	28.	3358.	956.	44.	7932.	3323.	28.90
10.94	.77	1.25	.64	.050	.070	.050	.000	15.80	2066.45
.000154	100.	100.	100.	2	0	0	.00	1349.41	3415.86

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	2.80	.00	22.80	5.80	855.00	2.00	15.80	15.80

\*SECNO 1748.100

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
34.10	33.61	.00	2319.	1582.	855.	850.	32.60	33.90

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 30.90 ELREA= 33.90

1748.10	17.86	33.66	.00	.00	33.68	.01	.07	.00	29.00
3900.	2629.	1271.	0.	3453.	962.	0.	7935.	3324.	28.90
13.95	.76	1.32	.00	.050	.070	.000	.000	15.80	2054.36
.000147	35.	35.	35.	1	0	7	.00	1333.64	3388.00

0

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	BANK ELEV
2	BLOB	QCH	QROB	ALOB	ACH	AROB	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 1748.000

1748.00	17.87	33.67	.00	.00	33.69	.02	.01	.00	27.90
3900.	2289.	1597.	14.	3479.	982.	32.	7941.	3326.	30.30
13.96	.66	1.63	.44	.070	.070	.070	.000	15.80	2054.23
.000213	55.	55.	55.	0	0	0	.00	1362.97	3417.20

0

CCHV= .100 CEHV= .300

\*SECNO 1747.000

3255 DIVIDED FLOW

1747.00	18.06	34.96	.00	.00	35.12	.16	1.39	.04	32.60
3900.	484.	3369.	46.	575.	967.	58.	8175.	3405.	32.60
14.26	.84	3.49	.80	.070	.070	.070	.000	16.90	2077.57
.001131	3350.	3350.	3100.	2	0	0	.00	708.76	2804.45

0

\*SECNO 1746.000

1746.00	18.44	35.74	.00	.00	35.77	.03	.63	.01	32.00
3900.	405.	1841.	1654.	623.	978.	2290.	8253.	3436.	33.00
14.53	.65	1.88	.72	.070	.070	.070	.000	17.30	1712.28

0  
 \*SECNO 1745.000  
 1745.00 18.06 36.66 .00 .00 36.88 .23 1.06 .06 41.80  
 3900. 0. 3900. 0. 0. 1019. 0. 3359. 3470. 44.20  
 14.56 .00 3.83 .00 .050 .070 .050 .000 18.60 3650.52  
 .001447 1950. 1860. 1900. 2 0 0 .00 89.85 3740.47

0  
 \*SECNO 1744.000  
 3265 DIVIDED FLOW  
 1744.00 19.74 38.14 .00 .00 38.20 .06 1.30 .02 37.80  
 3590. 718. 2430. 442. 958. 1043. 534. 8425. 3500. 38.60  
 14.90 .75 2.33 .83 .050 .070 .050 .000 18.40 2031.63  
 .000510 1650. 1580. 1600. 2 0 0 .00 1515.49 4005.55

0  
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SECNO	DEPTH	CWSEL	CRWS	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 1743.000  
 1743.00 19.89 38.89 .00 .00 38.92 .04 .72 .00 35.40  
 3590. 1412. 1824. 354. 1390. 952. 639. 8540. 3559. 35.80  
 15.26 1.02 1.92 .55 .050 .070 .050 .000 19.00 2156.91  
 .000313 1780. 1830. 1880. 3 0 0 .00 1301.51 3458.42

0  
 \*SECNO 1742.000  
 3265 DIVIDED FLOW  
 1742.00 20.08 39.58 .00 .00 39.67 .09 .74 .02 36.70  
 3590. 580. 2972. 38. 921. 1128. 127. 8644. 3601. 37.50  
 15.47 .63 2.63 .30 .100 .070 .100 .000 19.50 1498.15  
 .000611 1900. 1670. 1600. 1 0 0 .00 787.25 2386.75

0  
 \*SECNO 1741.800  
 1741.80 20.42 40.42 .00 .00 40.52 .11 .84 .00 39.40  
 3280. 28. 3156. 97. 98. 1184. 327. 8702. 3625. 39.40  
 15.61 .29 2.66 .30 .100 .070 .100 .000 20.00 1075.64  
 .000658 1335. 1335. 1335. 2 0 0 .00 796.36 1872.00

0  
 CCHV= .300 CEHV= .500  
 \*SECNO 1741.700

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 40.50 ELREA= 40.50

1741.70 20.44 40.44 .00 .00 40.59 .15 .05 .02 38.90  
 3280. 0. 3280. 0. 0. 1067. 0. 8704. 3625. 38.90  
 15.62 .00 3.07 .00 .100 .070 .100 .000 20.00 1260.00  
 .000893 60. 60. 60. 1 0 0 .00 92.00 1352.00

0  
 SPECIAL BRIDGE

SB	YK	YKOR	COFR	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.60	.00	17.60	2.80	905.00	2.00	21.00	21.00

\*SECNO 1741.600

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

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
40.76	40.60	.01	0.	3280.	905.	906.	38.90	42.10

3495 OVBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 42.10 ELREA= 42.10

1741.60	20.62	40.62	.00	.00	40.76	.14	.17	.00	38.90
3280.	0.	3280.	0.	0.	1082.	0.	8705.	3626.	38.90
15.62	.00	3.03	.00	.000	.070	.000	.000	20.00	1260.00
.000251	37.	37.	37.	2	0	0	.00	92.00	1352.00

0

\*SECNO 1741.500

1741.50	20.73	40.73	.00	.00	40.82	.09	.04	.02	39.40
3280.	50.	3061.	169.	157.	1216.	497.	8707.	3627.	39.40
15.63	.32	2.52	.34	.100	.070	.100	.000	20.00	1035.64
.000567	60.	60.	60.	2	0	0	.00	904.06	1939.69

0

\*SECNO 1741.300

1741.30	19.07	40.77	.00	.00	40.87	.10	.05	.00	38.70
3280.	52.	2985.	242.	140.	1118.	603.	8711.	3628.	39.20
15.64	.37	2.67	.40	.100	.070	.100	.000	21.70	1014.65
.000602	80.	80.	80.	1	0	0	.00	751.61	1766.26

0

\*SECNO 1741.200

1741.20	19.10	40.90	.00	.00	40.90	.10	.03	.00	38.70
3280.	54.	2978.	249.	143.	1119.	614.	8713.	3629.	39.20
15.64	.37	2.66	.40	.100	.070	.100	.000	21.70	1013.22
.000596	50.	50.	50.	0	0	0	.00	753.40	1766.62

0

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

SPECIAL BRIDGE

SB	XK	XKDR	COFR	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.60	.00	37.70	2.80	879.00	1.25	22.50	22.50

\*SECNO 1741.100

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
41.14	40.94	.01	0.	3280.	879.	878.	38.50	42.10



3495 OVBANK AREA ASSUMED NON-EFFECTIVE,ELLE= 42.10 ELREA= 42.10

1741.10	19.31	41.01	.00	.00	41.14	.13	.24	.00	38.70
3280.	0.	3280.	0.	0.	1138.	0.	8714.	3630.	39.20
15.65	.00	2.88	.00	.000	.070	.000	.000	21.70	1150.00
.000684	37.	37.	37.	2	0	0	.00	88.00	1238.00

\*SECNO 1741.000

1741.00	19.43	41.13	.00	.00	41.21	.08	.06	.01	38.70
3280.	75.	2859.	346.	192.	1148.	811.	8718.	3631.	39.20
15.66	.39	2.49	.43	.100	.070	.100	.000	21.70	987.49
.000504	70.	100.	130.	2	0	0	.00	1148.95	2136.44

\*SECNO 174103.000

174103.00	19.49	41.19	.00	.00	41.25	.05	.03	.01	38.70
3280.	8.	3062.	210.	30.	1608.	671.	8723.	3635.	39.20
15.67	.25	1.90	.31	.100	.070	.100	.000	21.70	948.94
.000243	25.	70.	180.	1	0	0	.00	848.81	1797.75

SPECIAL BRIDGE

SB	XK	XKOR	COFR	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.70	.00	56.50	7.50	1240.00	2.00	22.70	22.70

\*SECNO 174102.000

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

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
41.36	41.25	.00	1140.	2138.	1240.	1240.	38.20	39.70

174102.00	19.51	41.21	.00	.00	41.26	.05	.02	.00	38.70
3280.	8.	3057.	215.	31.	1611.	689.	8725.	3636.	39.20
15.68	.25	1.90	.31	.100	.070	.100	.000	21.70	944.11
.000240	40.	40.	40.	2	0	6	.00	895.95	1840.06

\*SECNO 174101.000

3265 DIVIDED FLOW

174101.00	19.57	41.27	.00	.00	41.29	.02	.01	.01	38.70
3280.	69.	1716.	1495.	316.	1161.	4256.	8730.	3638.	39.20
15.69	.22	1.48	.35	.100	.070	.100	.000	21.70	2575.21
.000175	50.	50.	50.	2	0	0	.00	2762.52	5479.65

CCHV= .100 CEHV= .300

\*SECNO 1740.000

3265 DIVIDED FLOW

3280.	9.	3271.	0.	28.	789.	0.	8925.	3724.	42.70
15.37	.23	4.15	.00	.100	.070	.100	.000	23.00	3229.46
.001918	2720.	2680.	2550.	2	0	0	.00	157.51	3459.18

\*SECNO 1739.400

1739.40	18.09	43.09	.00	.00	43.18	.09	.70	.02	41.10
3280.	583.	2681.	16.	1067.	1018.	53.	8954.	3736.	41.00
15.96	.55	2.53	.29	.100	.070	.100	.000	25.00	2814.07
.000578	1050.	700.	700.	2	0	0	.00	856.33	3670.40

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QRQB	ALOB	ACH	ARQB	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 1739.300

1739.30	18.14	43.14	.00	.00	43.23	.09	.05	.00	41.10
3280.	604.	2659.	17.	1106.	1022.	58.	8958.	3737.	41.00
15.97	.55	2.60	.30	.100	.070	.100	.000	25.00	2794.80
.000560	90.	90.	90.	2	0	0	.00	924.61	3719.41

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.56	2.60	.00	34.60	4.70	710.00	1.25	25.50	25.50	

\*SECNO 1739.200

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
43.66	43.24	.01	412.	2876.	710.	710.	40.20	41.80

1739.20	18.47	43.47	.00	.00	43.54	.07	.31	.00	41.10
3280.	724.	2520.	36.	1363.	1047.	158.	8961.	3739.	41.00
15.98	.53	2.41	.23	.100	.070	.100	.000	25.00	2672.07
.000464	50.	50.	50.	2	0	4	.00	1414.07	4086.14

\*SECNO 1739.100

1739.10	18.50	43.50	.00	.00	43.56	.07	.02	.00	41.10
3280.	734.	2508.	38.	1385.	1049.	171.	8964.	3740.	41.00
15.99	.53	2.39	.22	.100	.070	.100	.000	25.00	2662.47
.000457	50.	50.	50.	0	0	0	.00	1452.34	4114.81

CCHV= .100 CEHV= .300

\*SECNO 1738.500

1738.50	18.47	43.97	.00	.00	43.99	.02	.42	.01	36.60
3280.	490.	2145.	646.	1296.	1620.	2093.	9180.	3828.	39.10
16.56	.38	1.32	.31	.100	.070	.100	.000	25.50	1013.59
.000119	4500.	1480.	1270.	2	0	0	.00	1383.38	2396.97

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
-------	-------	-------	------	-------	----	----	----	-------	-----------

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 1738.400

1738.40	18.54	44.04	.00	.00	44.08	.04	.07	.01	36.60
3280.	151.	2758.	371.	304.	1627.	884.	9225.	3840.	39.10
16.65	.50	1.69	.42	.100	.070	.100	.000	25.50	1318.26
.000194	500.	500.	500.	2	0	0	.00	585.54	1903.80

0

\*SECNO 1738.300

1738.30	18.62	44.12	.00	.00	44.16	.04	.08	.00	39.00
3290.	10.	2626.	644.	25.	1479.	1235.	9248.	3844.	39.10
16.71	.42	1.78	.52	.100	.070	.100	.000	25.50	1382.41
.000264	350.	350.	350.	2	0	0	.00	573.38	1955.79

0

SPECIAL BRIDGE

SB	XK	XKOR	COFB	RDLN	BWC	PWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.60	.00	25.90	12.00	900.00	33.30	26.00	26.00	

\*SECNO 1738.200

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
						AREA		
44.44	44.19	.00	0.	3280.	900.	7287.	40.60	45.40

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 45.40 ELREA= 45.40

1738.20	18.86	44.36	.00	.00	44.44	.07	.28	.00	39.00
3280.	0.	3280.	0.	0.	1509.	0.	9250.	3845.	39.10
16.72	.00	2.17	.00	.000	.070	.000	.000	25.50	1392.00
.000384	40.	40.	40.	2	0	0	.00	123.00	1515.00

0

\*SECNO 1738.100

1738.10	18.96	44.46	.00	.00	44.49	.03	.04	.01	36.60
3280.	468.	2589.	223.	1568.	1676.	477.	9261.	3848.	39.10
16.76	.30	1.54	.47	.100	.070	.100	.000	25.50	273.09
.000155	250.	180.	100.	2	0	0	.00	1377.42	1650.50

0

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

\*SECNO 1737.600

1737.60	21.70	44.50	.00	.00	44.55	.05	.05	.01	35.30
3280.	252.	2634.	394.	891.	1291.	673.	9281.	3856.	36.00
16.80	.28	2.04	.59	.100	.070	.100	.000	22.80	199.12
.000251	260.	260.	260.	2	0	0	.00	1087.49	1286.61

0

SPECIAL BRIDGE

1.00 1.56 2.30 .00 16.90 4.10 878.00 2.00 23.40 23.40

\*SECNO 1737.500  
PRESSURE AND WEIR FLOW

ESPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
44.84	44.56	.00	1913.	1338.	878.	878.	41.40	42.70
1737.50	21.73	44.53	.00	.00	44.56	.03	.00	35.30
3280.	970.	2180.	230.	2185.	1293.	483.	9295.	3857.
16.81	.40	1.69	.48	.100	.070	.100	.000	22.80
.000171	50.	50.	50.	2	0	5	.00	1171.48

0

\*SECNO 1737.400

1737.40	19.61	44.61	.00	.00	44.64	.04	.08	.00
3280.	964.	1624.	692.	1771.	788.	998.	9317.	3867.
16.88	.54	2.06	.69	.100	.070	.100	.000	25.00
.000331	400.	320.	350.	0	0	0	.00	1106.70

0

\*SECNO 1737.300

1737.30	16.93	44.83	.00	.00	44.87	.05	.23	.01
3320.	736.	2568.	16.	1445.	1323.	44.	9368.	3883.
17.00	.51	1.94	.36	.100	.070	.100	.000	27.90
.000319	760.	700.	560.	2	0	0	.00	810.68

0

1

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SECNO	DEPTH	CWSEL	CRHS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALDB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICDNT	CDRAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKDR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.60	.00	23.20	3.50	864.00	3.00	28.10	28.10

\*SECNO 1737.200  
PRESSURE FLOW

ESPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
45.19	44.92	.00	0.	3320.	864.	864.	42.10	45.20

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 45.20 ELREA= 45.60

1737.20	17.20	45.10	.00	.00	45.19	.09	.31	.00
3320.	0.	3320.	0.	0.	1392.	0.	9378.	3886.
17.02	.00	2.39	.00	.000	.070	.000	.000	27.90
.000453	270.	160.	120.	2	0	0	.00	111.00

0

\*SECNO 1737.100

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 45.20 ELREA= 45.60

3320.	776.	2544.	0.	1741.	1415.	0.	9398.	3889.	41.70
17.11	.45	1.80	.00	.100	.070	.100	.000	27.90	4228.12
.000252	300.	450.	700.	2	0	0	.00	809.88	5038.00

0  
CCHV= .100 CEHV= .300

\*SECNO 1736.700

1736.70	16.84	45.44	.00	.00	45.47	.03	.12	.00	38.80
3320.	1018.	1979.	323.	1991.	1199.	690.	9446.	3902.	38.00
17.23	.51	1.65	.47	.100	.070	.100	.000	28.60	922.38
.000202	680.	500.	450.	2	0	0	.00	951.51	1973.89

0  
CCHV= .300 CEHV= .500  
\*SECNO 1736.600

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
2	QLOB	QCH	QRQB	ALQB	ACH	ARQB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRQB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 50.70 ELREA= 50.80

1736.50	16.85	45.45	.00	.00	45.51	.06	.03	.02	40.00
3320.	0.	3320.	0.	0.	1679.	0.	9453.	3903.	41.50
17.25	.00	1.98	.00	.100	.070	.100	.000	28.60	1470.00
.000452	130.	100.	90.	1	0	0	.00	180.00	1650.00

SPECIAL BRIDGE

SB	XK	XKOR	CDFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.60	.00	56.20	17.30	1500.00	3.00	30.00	30.00	

\*SECNO 1736.500  
CLASS A LOW FLOW

3420 BRIDGE W.S.= 45.42 BRIDGE VELOCITY=, 2.53 CALCULATED CHANNEL AREA=, 1313.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD
.00	45.52	.01	0.	3320.	1500.	1500.	46.80	48.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 50.90 ELREA= 50.10

1736.50	16.86	45.46	.00	.00	45.52	.06	.01	.00	40.00
3320.	0.	3320.	0.	0.	1679.	0.	9454.	3903.	41.50
17.25	.00	1.98	.00	.000	.070	.000	.000	28.60	1470.00
.000451	20.	20.	20.	0	0	0	.00	180.00	1650.00

0  
\*SECNO 1736.400

1736.40	16.96	45.56	.00	.00	45.58	.02	.04	.01	40.00
3320.	932.	2237.	152.	1876.	1697.	422.	9464.	3905.	41.50
17.29	.50	1.32	.36	.100	.070	.100	.000	28.60	917.59
.000198	150.	150.	150.	2	0	0	.00	961.88	1879.47

0  
CCHV= .100 CEHV= .300  
\*SECNO 1736.000

1736.00	16.69	45.69	.00	.00	45.70	.01	.12	.00	40.20
3320.	1552.	1149.	619.	3999.	1001.	1320.	9566.	3929.	39.60

.000108 900. 950. 750. 2 0 0 .00 1433.45 3747.27

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

\*SECNO 1735.800

1735.80	16.14	45.74	.00	.00	45.75	.01	.05	.00	37.10
3320.	2016.	967.	336.	4554.	766.	658.	9621.	3942.	40.00
17.80	.44	1.26	.51	.100	.070	.100	.000	29.60	1112.68
.000136	400.	360.	370.	1	0	0	.00	1486.30	2598.99

CCHV= .300 CEHV= .500

\*SECNO 1735.700

1735.70	16.19	45.79	.00	.00	45.80	.01	.05	.00	37.10
3320.	2352.	939.	29.	5399.	768.	103.	9670.	3955.	40.00
17.95	.44	1.22	.28	.100	.070	.100	.000	29.60	1008.96
.000127	350.	350.	330.	0	0	0	.00	1719.13	2728.09

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.60	.00	24.10	5.60	410.00	3.00	30.50	30.50	

\*SECNO 1735.600

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
47.38	45.80	.00	2678.	642.	410.	410.	39.50	43.40

1735.60	16.24	45.84	.00	.00	45.85	.01	.05	.00	37.10
3320.	2097.	879.	344.	5310.	773.	1227.	9676.	3957.	40.00
17.97	.39	1.14	.28	.100	.070	.100	.000	29.60	1006.31
.000109	42.	42.	42.	0	0	7	.00	2336.77	3343.08

\*SECNO 1735.500

1735.50	16.27	45.87	.00	.00	45.88	.02	.03	.00	37.10
3320.	774.	1207.	1338.	1931.	774.	2979.	9707.	3970.	40.00
18.04	.40	1.56	.45	.100	.070	.100	.000	29.60	1079.80
.000205	210.	200.	200.	0	0	0	.00	3023.12	4102.92

\*SECNO 1735.300

1735.30	17.77	45.97	.00	.00	45.97	.00	.09	.00	41.60
3320.	313.	773.	2234.	1381.	941.	8794.	9898.	4056.	39.10
18.67	.23	.82	.25	.100	.070	.100	.000	28.20	2064.64
.000061	510.	480.	1200.	0	0	0	.00	5022.02	7086.66

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

\*SECNO 1735.200

1735.20	17.78	45.98	.00	.00	45.98	.00	.01	.00	38.20
3320.	339.	741.	2239.	1455.	849.	8837.	9923.	4068.	38.20
18.74	.23	.87	.25	.100	.070	.100	.000	28.20	2053.82
.000060	100.	100.	100.	0	0	0	.00	5035.14	7088.96

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.50	.00	25.50	5.00	576.00	2.00	29.50	29.50

\*SECNO 1735.100

3280 CROSS SECTION 1735.10 EXTENDED .02 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
46.78	45.98	.00	2561.	757.	576.	576.	42.10	43.70

1735.10	17.81	46.01	.00	.00	46.02	.00	.04	.00	38.20
3320.	342.	733.	2245.	1512.	851.	8953.	9934.	4072.	38.20
18.77	.23	.86	.25	.100	.070	.100	.000	28.20	2000.00
.000058	40.	40.	40.	0	0	5	.00	5100.00	7100.00

\*SECNO 1735.000

3280 CROSS SECTION 1735.00 EXTENDED .02 FEET

1735.00	17.82	46.02	.00	.00	46.03	.00	.01	.00	41.60
3320.	316.	746.	2258.	1490.	944.	8968.	9973.	4090.	39.10
18.88	.21	.79	.25	.100	.070	.100	.000	28.20	1900.00
.000056	150.	130.	150.	0	0	0	.00	5200.00	7100.00

CCHV= .100 CEHV= .300

\*SECNO 1734.000

1734.00	15.58	46.12	.00	.00	46.12	.00	.09	.00	40.20
3320.	965.	708.	1647.	3301.	931.	6139.	10412.	4247.	40.60
20.11	.29	.76	.27	.100	.070	.100	.000	30.54	2809.13
.000053	1165.	1310.	2000.	0	0	0	.00	2739.35	5548.49

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SECNO	DEPTH	CWSEL	CRWS	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

\*SECNO 1733.400

1733.40	15.74	46.24	.00	.00	46.24	.01	.12	.00	40.00
3320.	259.	1059.	2002.	518.	945.	4990.	10737.	4335.	40.60
20.84	.50	1.12	.40	.100	.070	.100	.000	30.50	3285.50
.000112	1300.	1620.	1830.	2	0	0	.00	1708.28	4993.78

CCHV= .300 CEHV= .500

\*SECNO 1733.300

1733.30	12.31	46.31	.00	.00	46.31	.00	.07	.00	38.00
3370.	45.	422.	2902.	119.	453.	7519.	10859.	4366.	35.50
21.27	.38	.93	.39	.100	.070	.100	.000	34.00	3285.63

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.70	.00	23.40	1.90	262.00	.50	34.50	34.50

\*SECNO 1733.200  
PRESSURE AND WEIR FLOW

ESPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	
50.32	46.31	.00	2056.	1318.	262.	262.	44.40	46.40	
1733.20	12.92	46.92	.00	.00	46.92	.00	.61	.00	38.00
3370.	2567.	441.	362.	7646.	479.	750.	10873.	4370.	35.50
21.32	.34	.92	.48	.100	.070	.100	.000	34.00	1403.18
.000072	75.	75.	75.	0	0	5	.00	2091.25	3494.43

0

1733.10	12.92	46.92	.00	.00	46.93	.00	.01	.00	38.00
3370.	2568.	440.	362.	7654.	479.	751.	10894.	4375.	35.50
21.39	.34	.92	.48	.100	.070	.100	.000	34.00	1403.02
.000072	100.	100.	100.	0	0	0	.00	2091.70	3494.72

0

CCHV= .100 CEHV= .300

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

\*SECNO 1732.400  
3280 CROSS SECTION 1732.40 EXTENDED .02 FEET

1732.40	15.51	47.01	.00	.00	47.02	.00	.09	.00	41.80
3370.	702.	755.	1914.	2429.	819.	4647.	11155.	4453.	41.80
22.15	.29	.92	.41	.070	.060	.070	.000	31.50	1600.00
.000061	1325.	1425.	1395.	1	0	0	.00	3000.00	4600.00

0

CCHV= .300 CEHV= .500

\*SECNO 1732.300  
3280 CROSS SECTION 1732.30 EXTENDED .02 FEET

1732.30	15.52	47.02	.00	.00	47.03	.00	.01	.00	41.80
3370.	666.	906.	1798.	2433.	995.	4606.	11184.	4462.	41.80
22.24	.27	.91	.39	.070	.060	.070	.000	31.50	1600.00
.000055	5.	100.	250.	0	0	0	.00	3000.00	4600.00

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.90	.00	26.00	2.30	455.00	3.00	32.10	32.10

\*SECNO 1732.200  
3280 CROSS SECTION 1732.20 EXTENDED .05 FEET

PRESSURE AND WEIR FLOW



ESPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
48.35	47.03	.00	2850.	517.	455.	456.	41.10	44.20

1732.20	15.55	47.05	.00	.00	47.05	.01	.03	.00	41.80
3370.	950.	1159.	1261.	2534.	998.	3141.	11198.	4468.	41.80
22.27	.37	1.16	.40	.070	.060	.070	.000	31.50	1500.00
.000089	85.	85.	85.	0	0	6	.00	3146.04	4646.04

0

\*SECNO 1732.100

1732.10	15.58	47.08	.00	.00	47.10	.03	.04	.01	41.80
3370.	786.	1427.	1157.	1522.	765.	2058.	11232.	4487.	41.80
22.34	.52	1.87	.56	.070	.060	.070	.000	31.50	1594.01
.000277	580.	320.	5.	0	0	0	.00	2672.73	4266.74

0

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
B	BLOB	BCH	BROB	ALOB	ACH	AROB	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 1731.400

1731.40	13.55	47.35	.00	.00	47.36	.01	.26	.00	43.50
3370.	908.	733.	1729.	2153.	623.	3120.	11408.	4569.	43.40
22.98	.42	1.18	.55	.070	.060	.070	.000	33.80	1143.81
.000118	1495.	1495.	1495.	0	0	0	.00	2127.72	3271.54

0

CCHV= .300 CEHV= .500

\*SECNO 1731.300

1731.30	13.57	47.37	.00	.00	47.37	.01	.01	.00	43.50
3370.	911.	728.	1730.	2177.	625.	3146.	11421.	4574.	43.40
23.02	.42	1.17	.55	.070	.060	.070	.000	33.80	1138.55
.000115	100.	100.	100.	0	0	0	.00	2135.13	3273.68

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.90	.00	13.00	5.00	313.00	3.00	34.00	34.00	

\*SECNO 1731.200

PRESSURE AND WEIR FLOW

ESPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
50.17	47.37	.00	3105.	265.	313.	315.	43.00	44.40

1731.20	13.58	47.38	.00	.00	47.38	.01	.01	.00	43.50
3370.	913.	727.	1731.	2187.	626.	3156.	11426.	4576.	43.40
23.03	.42	1.16	.55	.070	.060	.070	.000	33.80	1136.46
.000114	35.	35.	35.	0	0	6	.00	2138.07	3274.53

0

\*SECNO 1731.100

1731.10	13.58	47.38	.00	.00	47.39	.01	.01	.00	43.50
3370.	1012.	987.	1371.	2187.	626.	3155.	11435.	4579.	43.40
23.06	.46	1.58	.43	.050	.035	.070	.000	33.80	1136.50

3265 DIVIDED FLOW

1763.40	14.89	14.29	.00	.00	14.32	.03	.01	.00	11.50
4990.	1248.	2500.	1242.	2072.	1321.	1373.	1871.	1037.	10.70
2.78	.60	1.89	.90	.040	.045	.040	.000	-.60	6073.77
.000141	90.	90.	90.	0	0	0	.00	2787.41	9034.87

0  
 CCHV= .100 CEHV= .300  
 \*SECNO 1763.200

3265 DIVIDED FLOW

1753.20	14.83	14.33	.00	.00	14.36	.03	.04	.00	11.60
4990.	1210.	2545.	1235.	1959.	1314.	1346.	1903.	1056.	10.80
2.85	.62	1.94	.92	.040	.045	.040	.000	-.50	6074.14
.000149	300.	300.	300.	0	0	0	.00	2610.43	9034.77

0  
 \*SECNO 1763.000

3265 DIVIDED FLOW

1753.00	14.78	14.48	.00	.00	14.52	.04	.15	.00	11.80
4990.	1172.	2591.	1227.	1851.	1307.	1318.	2007.	1113.	11.00
3.04	.63	1.98	.93	.040	.045	.040	.000	-.30	6074.52
.000157	1000.	1000.	1000.	0	0	0	.00	2426.14	9034.66

0  
 \*SECNO 1762.800

3265 DIVIDED FLOW

1762.80	15.15	14.95	.00	.00	14.96	.02	.45	.00	13.50
4990.	1076.	1518.	2396.	2263.	1096.	2752.	2494.	1351.	13.70
4.22	.48	1.38	.87	.040	.045	.040	.000	-.20	7432.00
.000083	4000.	4000.	4000.	2	0	0	.00	2757.81	10313.16

0  
 \*SECNO 1762.500

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

3265 DIVIDED FLOW

1762.50	15.01	15.01	.00	.00	15.03	.02	.06	.00	13.70
4990.	995.	1583.	2412.	2032.	1082.	2628.	2591.	1395.	13.90
4.43	.49	1.46	.92	.040	.045	.040	.000	.00	7522.23
.000095	680.	770.	730.	2	0	0	.00	2661.52	10312.71

0  
 CCHV= .300 CEHV= .500  
 \*SECNO 1762.400

3265 DIVIDED FLOW

1762.40	15.02	15.02	.00	.00	15.04	.02	.01	.00	13.70
4990.	1001.	1579.	2411.	2047.	1083.	2636.	2605.	1401.	13.90
4.45	.49	1.46	.91	.040	.045	.040	.000	.00	7516.34
.000094	100.	100.	100.	0	0	0	.00	2667.81	10312.74

0

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.90	.00	29.30	6.30	578.00	2.00	.50	.50

\*SECNO 1762.300

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
15.83	15.04	.00	3930.	1061.	578.	571.	12.60	13.80

1762.30	15.09	15.09	.00	.00	15.10	.02	.06	.00	13.70
4990.	1044.	1543.	2402.	2172.	1091.	2703.	2607.	1402.	13.90
4.46	.48	1.41	.89	.040	.045	.040	.000	.00	7467.16
.000088	19.	19.	19.	1	0	8	.00	2720.29	10312.98

0

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SECNO	DEPTH	CWSEL	CRWS	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

\*SECNO 1762.200

3265 DIVIDED FLOW

1762.20	15.09	15.09	.00	.00	15.11	.02	.01	.00	13.70
4990.	1044.	1543.	2402.	2172.	1091.	2703.	2620.	1408.	13.90
4.48	.48	1.41	.89	.040	.045	.040	.000	.00	7467.18
.000088	90.	90.	90.	0	0	0	.00	2720.27	10312.98

0

CCHV= .100 CEHV= .300

\*SECNO 1762.000

3265 DIVIDED FLOW

1762.00	15.02	15.12	.00	.00	15.14	.02	.03	.00	13.80
4990.	1001.	1578.	2411.	2047.	1083.	2636.	2660.	1426.	14.00
4.57	.49	1.46	.91	.040	.045	.040	.000	.10	7516.21
.000094	300.	300.	300.	0	0	0	.00	2667.95	10312.74

0

\*SECNO 1761.000

3265 DIVIDED FLOW

1761.00	14.87	15.87	.00	.00	16.11	.24	.90	.07	16.90
4830.	0.	4713.	117.	0.	1185.	194.	2983.	1573.	17.50
4.85	.00	3.98	.60	.050	.060	.050	.000	1.00	5894.98
.001200	3730.	4070.	3970.	2	0	0	.00	645.62	6656.06

0

\*SECNO 1760.800

3265 DIVIDED FLOW

1760.80	16.06	17.26	.00	.00	17.37	.11	1.24	.01	17.00
4830.	9.	3867.	955.	46.	1322.	1037.	3049.	1605.	17.70

.000589 1500. 1530. 1500. 2 0 0 .00 1210.79 6849.19

0

\*SECNO 1760.400

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

3265 DIVIDED FLOW

1760.40	16.54	18.24	.00	.00	18.29	.05	.92	.01	18.20
4830.	1034.	2609.	1186.	917.	1163.	1433.	3189.	1663.	17.60
5.37	1.13	2.24	.83	.050	.060	.050	.000	1.70	5469.80
.000336	2150.	2140.	1950.	2	0	0	.00	1262.65	6852.08

0

CCHV= .600 CEHV= .800

\*SECNO 1760.300

3265 DIVIDED FLOW

1760.30	16.58	18.28	.00	.00	18.32	.04	.03	.00	14.00
4830.	977.	2653.	1200.	990.	1251.	1576.	3197.	1666.	14.10
5.39	.99	2.12	.76	.050	.060	.050	.000	1.70	5469.30
.000259	100.	100.	100.	0	0	0	.00	1288.63	6852.48

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.60	.00	53.40	7.00	955.00	1.80	2.50	2.50	

\*SECNO 1760.200

PRESSURE AND WEIR FLOW

ESPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
18.90	18.32	.00	1368.	3463.	955.	954.	16.00	17.50

1760.20	16.63	18.33	.00	.00	18.59	.26	.27	.00	18.20
4830.	0.	4830.	0.	0.	1173.	1.	3198.	1666.	17.60
5.39	.01	4.12	.48	.050	.060	.050	.000	1.70	5877.22
.001119	21.	21.	21.	2	0	2	.00	99.57	5976.79

0

\*SECNO 1760.100

1760.10	16.73	18.43	.00	.00	18.69	.26	.09	.00	18.20
4830.	0.	4830.	0.	0.	1182.	1.	3200.	1666.	17.60
5.40	.23	4.09	.52	.050	.060	.050	.000	1.70	5876.66
.001090	80.	80.	80.	2	0	0	.00	100.36	5977.02

0

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

CCHV= .100 CEHV= .300

\*SECNO 1759.000

1759.00	19.35	22.35	.00	.00	22.54	.18	3.84	.01	19.90
4830.	12.	4807.	11.	14.	1390.	17.	3332.	1678.	21.50
5.75	.90	3.46	.65	.050	.060	.050	.000	3.00	5453.67
.000719	3930.	4390.	4280.	2	0	0	.00	145.21	5598.88

0

\*SECNO 1758.000

1758.00	20.56	24.26	.00	.00	24.41	.14	1.86	.00	20.10
4830.	59.	4605.	166.	56.	1490.	107.	3443.	1690.	20.30
6.04	1.06	3.09	1.56	.050	.060	.050	.000	3.70	4033.28
.000490	3300.	3170.	3100.	2	0	0	.00	161.62	4194.89

0

CCHV= .600 CEHV= .800

\*SECNO 1757.800

3265 DIVIDED FLOW

1757.80	20.79	24.49	.00	.00	24.50	.01	.01	.08	20.90
4830.	2533.	1426.	871.	5207.	1603.	2063.	3455.	1692.	20.90
6.09	.49	.89	.42	.050	.060	.050	.000	3.70	1839.38
.000040	100.	100.	100.	2	0	0	.00	2231.83	4077.94

0

CCHV= .100 CEHV= .300

\*SECNO 1757.600

3265 DIVIDED FLOW

1757.60	20.31	24.61	.00	.00	24.62	.01	.12	.00	21.50
4830.	2441.	1590.	799.	4573.	1549.	1719.	3955.	1821.	21.50
7.15	.53	1.03	.46	.050	.060	.050	.000	4.30	1865.36
.000056	2520.	2660.	2770.	2	0	0	.00	2065.83	3943.23

0

CCHV= .300 CEHV= .500

\*SECNO 1757.500

3265 DIVIDED FLOW

1757.50	20.32	24.62	.00	.00	24.62	.01	.00	.00	21.50
4830.	2442.	1589.	799.	4577.	1550.	1721.	3966.	1824.	21.50
7.17	.53	1.03	.46	.050	.060	.050	.000	4.30	1865.16
.000056	60.	60.	60.	0	0	0	.00	2067.11	3944.27

0

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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	2.80	.00	32.80	7.00	1107.00	2.50	5.00	5.00

\*SECNO 1757.400

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

ESPRS	EGLMC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
25.08	24.62	.00	2482.	2361.	1107.	1106.	21.50	21.70

1757.40	20.41	24.71	.00	.00	24.73	.01	.10	.00	21.50
4830.	2965.	1862.	3.	4755.	1561.	10.	3968.	1825.	21.50
7.18	.62	1.19	.33	.050	.060	.050	.000	4.30	1729.59
.000074	16.	16.	16.	1	0	6	.00	1559.94	3300.39

0

\*SECNO 1757.300

3265 DIVIDED FLOW

1757.30	20.42	24.72	.00	.00	24.73	.01	.00	.00	21.50
4830.	2964.	1863.	3.	4750.	1561.	10.	3975.	1826.	21.50
7.19	.62	1.19	.33	.050	.060	.050	.000	4.30	1730.35
.000075	50.	50.	50.	0	0	0	.00	1559.09	3300.33

0

CCHV= .100 CEHV= .300

\*SECNO 1756.500

3265 DIVIDED FLOW

1756.50	20.71	24.91	.00	.00	24.94	.03	.21	.01	24.00
4830.	2230.	2591.	9.	2897.	1460.	23.	4200.	1891.	24.00
7.57	.77	1.77	.37	.050	.060	.050	.000	4.20	2626.91
.000209	1900.	1660.	1200.	2	0	0	.00	1436.82	4196.11

0

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SECNO	DEPTH	CWSEL	CRWS	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 1756.000

3265 DIVIDED FLOW

1756.00	20.73	25.13	.00	.00	25.16	.03	.22	.00	24.20
4830.	2244.	2577.	9.	2925.	1463.	24.	4307.	1925.	24.20
7.80	.77	1.76	.37	.050	.060	.050	.000	4.40	2625.95
.000206	1050.	1080.	1000.	2	0	0	.00	1438.04	4196.15

0

\*SECNO 1755.900

3265 DIVIDED FLOW

1755.90	20.70	25.20	.00	.00	25.23	.03	.06	.00	24.30
4830.	2220.	2602.	8.	2876.	1458.	23.	4337.	1935.	24.30
7.87	.77	1.78	.37	.050	.060	.050	.000	4.50	2627.64
.000212	300.	300.	300.	0	0	0	.00	1435.90	4196.09

0

\*SECNO 1755.500

1755.50	21.49	25.79	.00	.00	25.94	.15	.68	.04	23.80
4560.	119.	4441.	0.	150.	1400.	0.	4464.	1971.	28.00
8.04	.79	3.17	.00	.050	.060	.050	.000	4.30	3303.03
.000713	1750.	2000.	2000.	2	0	0	.00	275.79	3578.82

0

\*SECNO 1755.000

3230.	677.	2553.	0.	996.	1474.	0.	4544.	1990.	29.10
8.37	.68	1.73	.00	.050	.070	.050	.000	4.20	2715.24
.000272	1400.	1860.	1950.	2	0	0	.00	863.48	3578.71

0

\*SECNO 1754.800

1754.80	22.64	26.94	.00	.00	26.97	.03	.20	.00	25.10
3230.	1496.	1643.	91.	1508.	951.	179.	4589.	2004.	25.10
8.53	.99	1.73	.51	.050	.070	.050	.000	4.30	2780.75
.000256	725.	800.	760.	2	0	0	.00	793.16	3573.90

0

CCHV= .300 CEHV= .500

1

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SECNO	DEPTH	CWSEL	CRISW	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

\*SECNO 1754.700

1754.70	22.66	26.96	.00	.00	26.99	.03	.02	.00	25.10
3230.	1502.	1635.	93.	1520.	952.	183.	4594.	2006.	25.10
8.55	.99	1.72	.51	.050	.070	.050	.000	4.30	2780.65
.000252	80.	80.	80.	0	0	0	.00	793.36	3574.02

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.60	.00	19.60	5.00	669.00	1.20	5.50	5.50	

\*SECNO 1754.600

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
27.53	27.00	.00	499.	2733.	669.	669.	23.80	25.00

1754.60	23.04	27.34	.00	.00	27.37	.02	.37	.00	25.10
3230.	1601.	1496.	133.	1729.	979.	249.	4595.	2006.	25.10
8.55	.93	1.53	.53	.050	.070	.050	.000	4.30	2778.96
.000192	18.	18.	18.	2	0	4	.00	797.06	3576.02

0

\*SECNO 1754.500

1754.50	23.05	27.35	.00	.00	27.37	.02	.01	.00	25.10
3230.	1604.	1493.	134.	1734.	980.	250.	4598.	2007.	25.10
8.56	.92	1.52	.53	.050	.070	.050	.000	4.30	2778.92
.000191	40.	40.	40.	0	0	0	.00	797.15	3576.06

0

CCHV= .100 CEHV= .300

\*SECNO 1754.400

3265 DIVIDED FLOW

1754.40	21.90	27.50	.00	.00	27.53	.03	.16	.00	24.00
3230.	1202.	1940.	87.	1492.	1089.	125.	4645.	2021.	25.30
8.71	.81	1.78	.70	.050	.070	.050	.000	5.60	2641.59
.000243	730.	730.	730.	0	0	0	.00	936.58	3609.53

0

1

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SECNO	DEPTH	CWSEL	CRISW	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

\*SECNO 1754.300

1754.30	21.92	27.52	.00	.00	27.56	.04	.02	.00	21.80
3230.	1342.	1715.	173.	1577.	894.	187.	4650.	2023.	21.80
8.72	.85	1.92	.92	.050	.070	.050	.000	5.60	2641.91
.000254	30.	30.	30.	0	0	0	.00	967.73	3609.64

SPECIAL BRIDGE

SB	XK	XKDR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.70	.00	18.80	4.00	531.00	1.30	6.50	6.50

\*SECNO 1754.200

PRESSURE AND WEIR FLOW

ESPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
28.42	27.56	.00	1290.	1963.	531.	531.	21.80	22.70

1754.20	22.22	27.82	.00	.00	27.85	.03	.30	.00	21.80
3230.	1472.	1574.	185.	1830.	911.	212.	4651.	2023.	21.80
8.72	.80	1.73	.87	.050	.070	.050	.000	5.60	2641.24
.000201	13.	13.	13.	2	0	4	.00	969.59	3610.83

\*SECNO 1754.100

1754.10	22.24	27.84	.00	.00	27.86	.03	.01	.00	24.00
3230.	1350.	1777.	102.	1772.	1116.	150.	4654.	2024.	25.30
8.74	.76	1.59	.68	.050	.070	.050	.000	5.60	2641.21
.000188	50.	50.	50.	0	0	0	.00	969.66	3610.87

CCHV= .100 CEHV= .300

\*SECNO 1754.000

3255 DIVIDED FLOW

1754.00	22.33	27.93	.00	.00	27.95	.02	.09	.00	24.00
3230.	1331.	1795.	104.	2134.	1123.	159.	4690.	2037.	25.30
8.85	.62	1.60	.65	.050	.070	.050	.000	5.60	2278.23
.000188	480.	480.	480.	0	0	0	.00	1344.45	3665.27

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SECNO	DEPTH	CWSEL	CRISW	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 1753.500

1753.50	19.12	28.32	.00	.00	28.35	.03	.39	.00	23.60
3230.	1082.	1586.	562.	1424.	926.	667.	4829.	2091.	24.70
9.27	.76	1.71	.84	.050	.070	.050	.000	9.20	3641.24
.000234	1880.	1880.	1880.	2	0	0	.00	1152.46	4793.71



CCHV= .300 CEHV= .500

\*SECNO 1753.400

1753.40	19.14	28.34	.00	.00	28.37	.03	.02	.00	23.60
3230.	1090.	1576.	564.	1442.	927.	672.	4836.	2094.	24.70
9.29	.75	1.70	.84	.050	.070	.050	.000	9.20	3636.19
.000230	100.	100.	100.	0	0	0	.00	1157.55	4793.74

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCWJ	ELCHD
1.00	1.56	2.90	.00	27.10	4.70	682.00	1.60	10.00	10.00	

\*SECNO 1753.300

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
28.89	28.37	.00	2274.	953.	682.	682.	24.80	25.90

1753.30	19.16	28.36	.00	.00	28.39	.03	.02	.00	23.60
3230.	1098.	1565.	568.	1461.	929.	679.	4838.	2094.	24.70
9.30	.75	1.68	.84	.050	.070	.050	.000	9.20	3630.49
.000226	28.	28.	28.	2	0	6	.00	1163.29	4793.78

\*SECNO 1753.200

1753.20	19.17	28.37	.00	.00	28.40	.03	.01	.00	23.60
3230.	1102.	1559.	569.	1471.	930.	682.	4841.	2096.	24.70
9.31	.75	1.68	.83	.050	.070	.050	.000	9.20	3627.76
.000223	50.	50.	50.	0	0	0	.00	1166.04	4793.80

CCHV= .100 CEHV= .300

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

\*SECNO 1753.000

1753.00	19.24	28.44	.00	.00	28.47	.03	.07	.00	23.60
3230.	992.	1624.	614.	1077.	934.	700.	4861.	2102.	24.70
9.37	.92	1.74	.88	.050	.070	.050	.000	9.20	4075.57
.000238	300.	300.	300.	0	0	0	.00	718.34	4793.91

\*SECNO 1752.300

1752.30	18.97	28.67	.00	.00	28.69	.02	.22	.00	24.10
3230.	1753.	1308.	170.	2921.	916.	256.	4947.	2133.	25.20
9.70	.60	1.43	.66	.050	.070	.050	.000	9.70	2914.17
.000165	1100.	1100.	1100.	2	0	0	.00	1734.89	4649.07

CCHV= .600 CEHV= .800

\*SECNO 1752.200

1752.20	18.92	28.92	.00	.00	28.95	.02	.25	.01	24.80
3230.	840.	1683.	707.	973.	1109.	879.	5060.	2173.	25.40
10.03	.86	1.52	.80	.050	.070	.050	.000	10.00	1024.23
.000194	1360.	1410.	1510.	2	0	0	.00	743.46	1767.69

\*SECNO 1752.100

1752.10	18.98	28.98	.00	.00	29.09	.10	.08	.06	24.80
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10.05 1.12 2.65 1.01 .050 .070 .050 .000 10.00 3529.74  
 .000540 250. 250. 250. 1 0 0 .00 150.26 3680.00  
 0  
 \*SECNO 1752.000  
 1752.00 19.19 29.19 .00 .00 29.24 .05 .12 .04 24.80  
 3230. 235. 2290. 705. 341. 1190. 653. 5085. 2178. 25.40  
 10.11 .69 1.93 1.08 .050 .070 .050 .000 10.00 4422.18  
 .000280 350. 300. 350. 2 0 0 .00 548.08 4970.26

0  
 CCHV= .100 CEHV= .300  
 \*SECNO 1751.800  
 1751.80 19.80 29.40 .00 .00 29.41 .01 .16 .00 26.60  
 3230. 394. 1099. 1737. 1100. 1053. 3367. 5193. 2225. 26.30  
 10.56 .36 1.04 .52 .050 .070 .050 .000 9.60 3616.54  
 .000091 1050. 850. 1500. 2 0 0 .00 2633.58 6250.12

0  
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SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	QLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLDBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

CCHV= .300 CEHV= .500  
 \*SECNO 1751.700  
 1751.70 19.81 29.41 .00 .00 29.42 .01 .01 .00 26.60  
 3230. 399. 1090. 1741. 1120. 1055. 3396. 5206. 2231. 26.30  
 10.61 .36 1.03 .51 .050 .070 .050 .000 9.60 3607.53  
 .000089 100. 100. 100. 0 0 0 .00 2646.38 6253.90  
 0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.90	.00	20.80	6.30	653.00	2.00	11.00	11.00

\*SECNO 1751.600  
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
						AREA		
	30.00	29.42	.00	1385.	1845.	653.	698.	26.40 27.00
1751.60	20.00	29.60	.00	.00	29.60	.01	.19	.00 26.60
3230.	446.	1011.	1773.	1326.	1070.	3675.	5209.	2232. 26.30
10.61	.34	.95	.48	.050	.070	.050	.000	9.60 3521.42
.000073	18.	18.	18.	0	0	6	.00	2768.57 5289.99

0  
 \*SECNO 1751.500  
 1751.50 19.90 29.60 .00 .00 29.61 .01 .00 .00 26.70  
 3230. 420. 1054. 1756. 1209. 1062. 3519. 5215. 2235. 26.40  
 10.64 .35 .99 .50 .050 .070 .050 .000 9.70 3569.37  
 .000081 50. 50. 50. 0 0 0 .00 2700.53 6269.90

0  
 CCHV= .100 CEHV= .300  
 \*SECNO 1751.300

3265 DIVIDED FLOW

1751.30	18.24	29.74	.00	.00	29.75	.01	.14	.00	26.10
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11.19 .49 1.16 .58 .050 .070 .050 .000 11.50 2437.51  
 .000109 1480. 1530. 1530. 2 0 0 .00 2305.03 4759.51

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

CCHV= .300 CEHV= .500  
 \*SECNO 1751.200

3265 DIVIDED FLOW

1751.20	18.25	29.75	.00	.00	29.76	.01	.01	.00	26.50
3120.	487.	1381.	1252.	1177.	1349.	2568.	5412.	2327.	26.30
11.23	.41	1.02	.49	.050	.070	.050	.000	11.50	2432.93
.000082	100.	100.	100.	0	0	0	.00	2312.31	4759.55

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	47.70	8.20	1042.00	2.00	13.30	13.30

\*SECNO 1751.100  
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
29.97	29.76	.00	303.	2822.	1042.	1042.	28.30	29.80

1751.10	18.42	29.92	.00	.00	29.93	.01	.17	.00	26.50
3120.	520.	1298.	1301.	1345.	1367.	2806.	5416.	2329.	26.30
11.25	.39	.95	.46	.050	.070	.050	.000	11.50	2346.41
.000069	36.	36.	36.	0	0	4	.00	2413.90	4760.31

\*SECNO 1751.000

1751.00	18.43	29.93	.00	.00	29.93	.01	.01	.00	26.10
3120.	609.	980.	1531.	1404.	953.	2920.	5426.	2333.	25.20
11.28	.43	1.03	.52	.050	.070	.050	.000	11.50	2347.17
.000084	80.	80.	80.	0	0	0	.00	2413.13	4760.30

CCHV= .100 CEHV= .300  
 \*SECNO 1750.800

1750.80	18.74	30.14	.00	.00	30.17	.03	.23	.01	26.80
3120.	434.	2104.	582.	710.	1326.	627.	5598.	2408.	26.20
11.67	.61	1.59	.93	.050	.070	.050	.000	11.40	2184.21
.000206	2400.	1820.	1625.	2	0	0	.00	822.30	3006.51

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

CCHV= .300 CEHV= .500

\*SECNO 1750.700

1750.70	18.77	30.17	.00	.00	30.19	.03	.02	.00	27.00
3120.	771.	2341.	8.	1233.	1618.	13.	5605.	2410.	27.00
11.69	.63	1.45	.58	.050	.070	.050	.000	11.40	1908.71
.000226	100.	100.	100.	1	0	0	.00	935.64	2844.35

SPECIAL BRIDGE

SB	XK	XKOR	COFB	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.15	1.56	2.60	.00	33.50	7.10	1010.00	2.50	12.50	12.50

\*SECNO 1750.600

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
30.40	30.22	.00	0.	3120.	1010.	1010.	28.00	32.30

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 32.30 ELREA= 32.30

1750.60	18.94	30.34	.00	.00	30.40	.06	.21	.00	27.00
3120.	0.	3120.	0.	0.	1648.	0.	5605.	2410.	27.00
11.69	.00	1.89	.00	.000	.070	.000	.000	11.40	2674.00
.000377	22.	22.	22.	2	0	0	.00	162.00	2836.00

\*SECNO 1750.500

1750.50	19.00	30.40	.00	.00	30.42	.02	.01	.01	27.00
3120.	7.	2252.	862.	12.	1657.	1465.	5608.	2411.	27.00
11.71	.58	1.36	.59	.050	.070	.050	.000	11.40	2666.61
.000193	60.	50.	50.	2	0	0	.00	1031.31	3697.92

CCHV= .100 CEHV= .300

\*SECNO 1750.400

1750.40	18.99	30.49	.00	.00	30.52	.04	.10	.00	26.90
3120.	310.	2343.	468.	457.	1352.	605.	5637.	2421.	26.30
11.79	.68	1.73	.77	.050	.070	.050	.000	11.50	2295.65
.000239	500.	450.	450.	2	0	0	.00	896.26	3191.91

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

\*SECNO 1750.300

3265 DIVIDED FLOW

1750.30	14.74	30.64	.00	.00	30.70	.06	.17	.01	28.10
3120.	112.	2160.	849.	271.	974.	1014.	5666.	2439.	28.80
11.87	.41	2.22	.84	.050	.070	.050	.000	15.90	2755.25
.000483	700.	500.	500.	2	0	0	.00	1738.72	4980.62

CCHV= .300 CEHV= .500

\*SECNO 1750.200

1750.20	16.84	30.64	.00	.00	30.82	.18	.06	.06	28.10
3120.	0.	3120.	0.	0.	905.	0.	5669.	2440.	27.90
11.88	.00	3.45	.00	.050	.070	.050	.000	13.80	3938.57
.001141	80.	80.	80.	2	0	0	.00	80.02	4018.59

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	3.00	.00	18.80	5.10	651.00	2.00	15.50	15.50

\*SECNO 1750.100  
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZDID	ELLC	ELTRD	
	31.19	30.84	.02	0.	3120.	651.	656.	30.50	32.00
						AREA			

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 31.70 ELREA= 30.70

1750.10	17.35	31.15	.00	.00	31.19	.04	.37	.00	28.10
3120.	0.	1857.	1263.	0.	947.	1594.	5670.	2441.	27.80
11.88	.00	1.96	.79	.000	.070	.050	.000	13.80	3938.57
.000348	33.	33.	33.	2	0	0	.00	1317.82	5256.40

0  
1

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SECNO	DEPTH	CHSEL	CRISW	WSELK	E6	HV	HL	OLOSS	BANK ELEV
R	QLOB	QCH	QRDB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLDBL	XLCH	XLDBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 1750.000

3265 DIVIDED FLOW

1750.00	17.39	31.19	.00	.00	31.21	.03	.02	.00	28.10
3120.	309.	1739.	1072.	744.	1063.	1636.	5674.	2443.	28.80
11.90	.42	1.64	.66	.050	.070	.050	.000	13.80	2752.11
.000234	60.	60.	60.	0	0	0	.00	2366.03	5270.63

0

CCHV= .100 CEHV= .300  
\*SECNO 1749.900

3265 DIVIDED FLOW

1749.90	17.36	31.26	.00	.00	31.28	.03	.07	.00	28.20
3120.	297.	1764.	1059.	713.	1060.	1598.	5698.	2459.	28.90
11.97	.42	1.66	.66	.050	.070	.050	.000	13.90	2752.29
.000243	300.	300.	300.	1	0	0	.00	2335.46	5261.35

0

\*SECNO 1749.000

3265 DIVIDED FLOW

1749.00	17.43	32.13	.00	.00	32.23	.09	.92	.02	30.20
3120.	33.	2729.	358.	59.	1045.	372.	5834.	2540.	30.20
12.24	.56	2.61	.96	.050	.070	.050	.000	14.70	3365.83

0

\*SECNO 1748.300

1748.30	17.18	32.98	.00	.00	32.99	.01	.75	.01	27.90
3010.	1789.	1213.	8.	2637.	929.	17.	5987.	2593.	30.30
13.04	.58	1.31	.45	.050	.070	.050	.000	15.80	2166.31
.000148	2600.	2700.	2600.	2	0	0	.00	1238.55	3404.96

CCHV= .300 CEHV= .500

\*SECNO 1748.200

3495 OVBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 30.90 ELREA= 33.20

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

1748.20	17.19	32.99	.00	.00	33.01	.01	.02	.00	29.00
3010.	1824.	1186.	0.	2639.	909.	0.	5995.	2595.	28.90
13.07	.63	1.30	.00	.050	.070	.050	.000	15.80	2162.86
.000154	100.	100.	100.	2	0	0	.00	1225.14	3388.00

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.56	2.80	.00	22.80	5.80	855.00	2.00	15.80	15.80	

\*SECNO 1748.100

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
33.29	33.01	.00	0.	3010.	855.	850.	32.60	33.90

3495 OVBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 30.90 ELREA= 33.90

1748.10	17.48	33.28	.00	.00	33.29	.01	.29	.00	29.00
3010.	1921.	1089.	0.	2984.	932.	0.	5998.	2597.	28.90
13.08	.64	1.17	.00	.050	.070	.000	.000	15.80	2115.68
.000120	35.	35.	35.	1	0	0	.00	1272.32	3388.00

0

\*SECNO 1748.000

1748.00	17.48	33.28	.00	.00	33.30	.02	.01	.00	27.90
3010.	1651.	1350.	8.	3010.	953.	23.	6003.	2598.	30.30
13.10	.55	1.42	.37	.070	.070	.070	.000	15.80	2115.42
.000169	55.	55.	55.	0	0	0	.00	1295.09	3410.52

0

CCHV= .100 CEHV= .300

\*SECNO 1747.000

3265 DIVIDED FLOW

1747.00	17.42	34.32	.00	.00	34.45	.14	1.11	.04	32.60
3010.	198.	2794.	18.	314.	913.	31.	6205.	2665.	32.60
13.42	.63	3.06	.59	.070	.070	.070	.000	16.90	2273.50
.000940	3350.	3350.	3100.	2	0	0	.00	450.28	2791.04

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

\*SECNO 1746.000

1746.00	17.74	35.04	.00	.00	35.07	.03	.61	.01	32.00
3010.	241.	1711.	1058.	421.	924.	1614.	6264.	2689.	33.00
13.67	.57	1.85	.66	.070	.070	.070	.000	17.30	1764.89
.000311	1100.	1190.	1350.	2	0	0	.00	1218.99	2983.88

0

\*SECNO 1745.000

1745.00	17.32	35.92	.00	.00	36.08	.15	.97	.04	41.80
3010.	0.	3010.	0.	0.	954.	0.	6349.	2718.	44.20
13.84	.00	3.15	.00	.050	.070	.050	.000	18.60	3652.13
.001030	1950.	1860.	1900.	2	0	0	.00	87.21	3739.34

0

\*SECNO 1744.000

3265 DIVIDED FLOW

1744.00	18.85	37.25	.00	.00	37.33	.09	1.25	.01	37.80
2650.	123.	2379.	149.	259.	966.	216.	6393.	2737.	38.60
14.03	.47	2.46	.69	.050	.070	.050	.000	18.40	2354.78
.000607	1650.	1580.	1600.	2	0	0	.00	944.37	3982.89

0

\*SECNO 1743.000

1743.00	19.12	38.12	.00	.00	38.16	.04	.83	.00	35.40
2650.	853.	1738.	59.	941.	894.	170.	6465.	2782.	35.80
14.35	.91	1.94	.35	.050	.070	.050	.000	19.00	2166.56
.000350	1780.	1830.	1880.	2	0	0	.00	1225.57	3392.12

0

\*SECNO 1742.000

1742.00	19.31	38.81	.00	.00	38.88	.07	.71	.01	36.70
2650.	265.	2378.	7.	585.	1055.	29.	6539.	2818.	37.50
14.58	.45	2.25	.25	.100	.070	.100	.000	19.50	1565.35
.000488	1900.	1670.	1600.	2	0	0	.00	542.82	2108.17

0

\*SECNO 1741.800

1741.80	19.44	39.44	.00	.00	39.51	.07	.64	.00	39.40
2290.	0.	2290.	0.	0.	1085.	1.	6581.	2829.	39.40
14.76	.03	2.11	.03	.100	.070	.100	.000	20.00	1240.97
.000464	1335.	1335.	1335.	2	0	0	.00	143.25	1384.22

0

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

CCHV= .300 CEHV= .500

\*SECNO 1741.700

3495 OVRBANK AREA ASSUMED NON-EFFECTIVE, ELREA= 40.50 ELREA= 40.50

1741.70	19.47	39.47	.00	.00	39.55	.09	.03	.01	38.90
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14.77	.00	2.34	.00	.100	.070	.100	.000	20.00	1260.00
.000584	50.	60.	60.	0	0	0	.00	92.00	1352.00

0

SPECIAL BRIDGE

SB	YK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.60	.00	17.60	2.80	905.00	2.00	21.00	21.00

\*SECNO 1741.600  
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
39.62	39.56	.01	0.	2290.	905.	906.	38.90	42.10

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 42.10 ELREA= 42.10

1741.60	19.54	39.54	.00	.00	39.62	.08	.07	.00	38.90
2290.	0.	2290.	0.	0.	983.	0.	6584.	2829.	38.90
14.77	.00	2.33	.00	.000	.070	.000	.000	20.00	1260.00
.000572	37.	37.	37.	2	0	0	.00	92.00	1352.00

0

\*SECNO 1741.500

1741.50	19.59	39.59	.00	.00	39.66	.07	.03	.01	39.40
2290.	0.	2289.	1.	3.	1099.	12.	6585.	2829.	39.40
14.78	.06	2.08	.06	.100	.070	.100	.000	20.00	1213.63
.000444	60.	60.	60.	1	0	0	.00	268.09	1481.72

0

\*SECNO 1741.300

1741.30	17.92	39.62	.00	.00	39.70	.08	.04	.01	38.70
2290.	6.	2281.	3.	28.	1017.	30.	6587.	2830.	39.20
14.79	.20	2.24	.10	.100	.070	.100	.000	21.70	1089.26
.000482	80.	80.	80.	0	0	0	.00	407.67	1496.94

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	BLOB	QCH	QROB	ALOB	ACH	AROB	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 1741.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 40.30 ELREA= 40.30

1741.20	17.95	39.65	.00	.00	39.72	.08	.02	.00	38.70
2290.	0.	2290.	0.	0.	1018.	0.	6588.	2830.	39.20
14.79	.00	2.25	.00	.100	.070	.100	.000	21.70	1150.00
.000483	50.	50.	50.	0	0	0	.00	88.00	1238.00

0

SPECIAL BRIDGE

SB	YK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.60	.00	37.70	2.80	879.00	1.25	22.50	22.50

\*SECNO 1741.100  
PRESSURE FLOW



EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
39.81	39.73	.01	0.	2290.	879.	878.	38.50	42.10

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 42.10 ELREA= 42.10

1741.10	18.03	39.73	.00	.00	39.81	.08	.09	.00	38.70
2290.	0.	2290.	0.	0.	1026.	0.	6589.	2830.	39.20
14.80	.00	2.23	.00	.000	.070	.000	.000	21.70	1150.00
.000471	37.	37.	37.	2	0	0	.00	88.00	1238.00

0

\*SECNO 1741.000

1741.00	18.08	39.78	.00	.00	39.86	.07	.05	.00	38.70
2290.	8.	2272.	10.	38.	1030.	86.	6592.	2831.	39.20
14.81	.21	2.21	.12	.100	.070	.100	.000	21.70	1079.51
.000458	70.	100.	130.	0	0	0	.00	641.86	1721.37

0

\*SECNO 174103.000

174103.00	18.15	39.85	.00	.00	39.89	.04	.02	.01	38.70
2290.	1.	2276.	13.	6.	1468.	131.	6594.	2833.	39.20
14.82	.14	1.55	.10	.100	.070	.100	.000	21.70	992.99
.000182	25.	70.	180.	2	0	0	.00	487.87	1480.85

0

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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.70	.00	56.50	7.50	1240.00	2.00	22.70	22.70

\*SECNO 174102.000

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
39.93	39.89	.00	105.	2191.	1240.	1240.	38.20	39.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 39.90 ELREA= 39.90

174102.00	18.19	39.89	.00	.00	39.93	.04	.04	.00	38.70
2290.	0.	2290.	0.	0.	1472.	0.	6595.	2833.	39.20
14.83	.00	1.56	.00	.000	.070	.000	.000	21.70	1003.00
.000182	40.	40.	40.	2	0	5	.00	105.00	1108.00

0

\*SECNO 174101.000

3265 DIVIDED FLOW

174101.00	18.20	39.90	.00	.00	39.94	.03	.01	.00	38.70
2290.	4.	1756.	530.	31.	1040.	1783.	6598.	2834.	39.20

.000264 50. 50. 50. 0 0 0 .00 1641.59 4611.57  
 0  
 CCHV= .100 CEHV= .300  
 \*SECNO 1740.000  
 1740.00 18.13 41.13 .00 .00 41.29 .16 1.32 .04 43.10  
 2290. 0. 2290. 0. 0. 713. 0. 6705. 2885. 42.70  
 15.07 .00 3.21 .00 .100 .070 .100 .000 23.00 3387.48  
 .001231 2720. 2680. 2550. 2 0 0 .00 70.01 3457.50

0  
 \*SECNO 1739.400  
 1739.40 16.77 41.77 .00 .00 41.85 .08 .55 .01 41.10  
 2290. 114. 2176. 0. 356. 916. 1. 6722. 2891. 41.00  
 15.16 .32 2.37 .17 .100 .070 .100 .000 25.00 3106.94  
 .000540 1050. 700. 700. 2 0 0 .00 495.69 3602.63

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

CCHV= .300 CEHV= .500  
 \*SECNO 1739.300  
 1739.30 16.82 41.82 .00 .00 41.90 .08 .05 .00 41.10  
 2290. 123. 2167. 0. 377. 920. 1. 6725. 2892. 41.00  
 15.17 .33 2.36 .16 .100 .070 .100 .000 25.00 3101.91  
 .000528 90. 90. 90. 2 0 0 .00 503.30 3605.22

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	2.60	.00	34.60	4.70	710.00	1.25	25.50	25.50

\*SECNO 1739.200  
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
						AREA		
42.07	41.91	.01	28.	2272.	710.	710.	40.20	41.80

1739.20 16.99 41.99 .00 .00 42.07 .08 .17 .00 41.10  
 2290. 156. 2134. 1. 450. 933. 3. 6727. 2893. 41.00  
 15.18 .35 2.29 .14 .100 .070 .100 .000 25.00 3084.68  
 .000488 50. 50. 50. 2 0 4 .00 529.40 3614.08

0  
 \*SECNO 1739.100  
 1739.10 17.02 42.02 .00 .00 42.09 .07 .02 .00 41.10  
 2290. 160. 2129. 1. 461. 935. 4. 6728. 2893. 41.00  
 15.18 .35 2.28 .14 .100 .070 .100 .000 25.00 3082.14  
 .000483 50. 50. 50. 0 0 0 .00 533.24 3615.38

0  
 CCHV= .100 CEHV= .300  
 \*SECNO 1738.500  
 1738.50 16.97 42.47 .00 .00 42.49 .02 .39 .01 36.60  
 2290. 210. 1878. 203. 726. 1447. 902. 6843. 2948. 39.10  
 15.61 .29 1.30 .22 .100 .070 .100 .000 25.50 1026.09  
 .000133 4500. 1480. 1270. 2 0 0 .00 1144.76 2170.85

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

CCHV= .300 CEHV= .500

\*SECNO 1738.400

1738.40	17.04	42.54	.00	.00	42.57	.03	.07	.00	36.60
2290.	75.	2095.	120.	194.	1455.	412.	6873.	2957.	39.10
15.71	.39	1.44	.29	.100	.070	.100	.000	25.50	1334.74
.000163	500.	500.	500.	2	0	0	.00	429.92	1764.65

0

\*SECNO 1738.300

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 43.00 ELREA= 43.00

1738.30	17.11	42.61	.00	.00	42.66	.05	.08	.01	39.00
2290.	0.	2290.	0.	0.	1292.	0.	6886.	2960.	39.10
15.77	.00	1.77	.00	.100	.070	.100	.000	25.50	1392.00
.000314	350.	350.	350.	1	0	0	.00	123.00	1515.00

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	25.90	13.00	900.00	33.30	26.00	26.00

\*SECNO 1738.200

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
42.76	42.66	.00	0.	2290.	900.	7287.	40.60	45.40

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 45.40 ELREA= 45.40

1738.20	17.22	42.72	.00	.00	42.76	.05	.11	.00	39.00
2290.	0.	2290.	0.	0.	1307.	0.	6887.	2960.	39.10
15.78	.00	1.75	.00	.000	.070	.000	.000	25.50	1392.00
.000303	40.	40.	40.	2	0	0	.00	123.00	1515.00

0

\*SECNO 1738.100

1738.10	17.28	42.78	.00	.00	42.81	.03	.04	.01	36.60
2290.	113.	2081.	96.	389.	1482.	268.	6895.	2961.	39.10
15.81	.29	1.40	.36	.100	.070	.100	.000	25.50	1134.36
.000151	250.	180.	100.	0	0	0	.00	491.45	1625.81

0

1

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

\*SECNO 1737.600

2290.	34.	2100.	155.	83.	1158.	367.	6906.	2964.	36.00
15.86	.41	1.81	.42	.100	.070	.100	.000	22.80	873.26
.000229	260.	260.	260.	2	0	0	.00	392.80	1266.06

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.80	.00	16.90	4.10	878.00	2.00	23.40	23.40

\*SECNO 1737.500  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
42.98	42.87	.00	718.	1573.	878.	878.	41.40	42.70

1737.50	20.06	42.86	.00	.00	42.89	.03	.03	.00	35.30
2290.	291.	1896.	103.	919.	1161.	247.	6908.	2964.	36.00
15.87	.32	1.63	.42	.100	.070	.100	.000	22.80	420.87
.000185	50.	50.	50.	2	0	4	.00	787.79	1208.67

0

\*SECNO 1737.400

1737.40	17.94	42.94	.00	.00	43.00	.06	.09	.01	37.80
2290.	381.	1558.	351.	713.	691.	590.	6926.	2971.	38.20
15.92	.53	2.25	.60	.100	.070	.100	.000	25.00	813.22
.000471	400.	320.	350.	0	0	0	.00	765.37	1578.60

0

\*SECNO 1737.300

3495 OVBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 43.70 ELREA= 43.70

1737.30	15.35	43.25	.00	.00	43.31	.06	.31	.00	39.30
2320.	0.	2320.	0.	0.	1148.	0.	6950.	2978.	41.70
16.02	.00	2.02	.00	.100	.070	.100	.000	27.90	1200.00
.000418	760.	700.	560.	2	0	0	.00	111.00	1311.00

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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.60	.00	23.20	3.50	864.00	3.00	28.10	28.10

\*SECNO 1737.200  
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
43.42	43.31	.01	0.	2320.	864.	864.	42.10	45.20

1737.20	15.45	43.36	.00	.00	43.42	.06	.11	.00	39.30
2320.	0.	2320.	0.	0.	1199.	0.	6955.	2979.	41.70
16.04	.00	1.93	.00	.000	.070	.000	.000	27.90	4927.00
.000363	270.	160.	120.	2	0	0	.00	111.00	5038.00

\*SECNO 1737.100

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 45.20 ELREA= 45.60

1737.10	15.63	43.53	.00	.00	43.58	.06	.16	.00	39.30
2320.	0.	2320.	0.	0.	1217.	0.	6967.	2980.	41.70
16.10	.00	1.91	.00	.100	.070	.100	.000	27.90	4927.00
.000346	300.	450.	700.	2	0	0	.00	111.00	5038.00

CCHV= .100 CEHV= .300

\*SECNO 1736.700

1736.70	15.10	43.70	.00	.00	43.74	.03	.15	.00	38.90
2320.	426.	1767.	127.	1051.	1042.	284.	6990.	2986.	38.00
16.21	.41	1.70	.45	.100	.070	.100	.000	28.60	991.61
.000258	680.	500.	450.	1	0	0	.00	767.28	1758.88

CCHV= .300 CEHV= .500

\*SECNO 1736.600

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SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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= 50.70 ELREA= 50.80

1736.60	15.13	43.73	.00	.00	43.78	.04	.03	.00	40.00
2320.	0.	2320.	0.	0.	1368.	0.	6994.	2987.	41.50
16.22	.00	1.70	.00	.100	.070	.100	.000	28.60	1470.00
.000436	130.	100.	90.	0	0	0	.00	180.00	1550.00

SPECIAL BRIDGE

SB	XK	XKDR	COFB	RLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	56.20	17.30	1500.00	3.00	30.00	30.00

\*SECNO 1736.500  
CLASS A LOW FLOW

3420 BRIDGE W.S.= 43.71 BRIDGE VELOCITY=, 2.12 CALCULATED CHANNEL AREA=, 1097.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD
.00	43.78	.01	0.	2320.	1500.	1500.	46.80	48.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 50.90 ELREA= 50.10

1736.50	15.14	43.74	.00	.00	43.78	.04	.01	.00	40.00
2320.	0.	2320.	0.	0.	1369.	0.	6995.	2987.	41.50
16.23	.00	1.69	.00	.000	.070	.000	.000	28.60	1470.00
.000436	20.	20.	20.	0	0	0	.00	180.00	1650.00

\*SECNO 1736.400

1736.40	15.22	43.82	.00	.00	43.84	.02	.05	.01	40.00
2320.	392.	1899.	29.	970.	1382.	102.	7002.	2989.	41.50
16.26	.40	1.37	.28	.100	.070	.100	.000	28.60	987.60
.000283	150.	150.	150.	1	0	0	.00	780.31	1767.91

0  
CCHV= .100 CEHV= .300

\*SECNO 1736.000

1736.00	15.01	44.01	.00	.00	44.03	.01	.18	.00	40.20
2320.	781.	1124.	415.	2267.	864.	888.	7066.	3010.	39.60
16.55	.34	1.30	.47	.100	.070	.100	.000	29.00	2362.73
.000169	900.	850.	750.	2	0	0	.00	1330.93	3693.67

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

\*SECNO 1735.800

1735.80	14.48	44.08	.00	.00	44.10	.02	.07	.00	37.10
2320.	1123.	970.	227.	2510.	660.	440.	7099.	3022.	40.00
16.67	.45	1.47	.52	.100	.070	.100	.000	29.60	1275.20
.000225	400.	360.	370.	1	0	0	.00	1317.16	2592.36

0  
CCHV= .300 CEHV= .500

\*SECNO 1735.700

1735.70	14.56	44.16	.00	.00	44.18	.01	.08	.00	37.10
2320.	1355.	953.	12.	3191.	664.	34.	7129.	3033.	40.00
16.78	.42	1.43	.36	.100	.070	.100	.000	29.60	1073.32
.000213	350.	350.	330.	1	0	0	.00	1412.24	2485.56

0  
SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	24.10	5.60	410.00	3.00	30.50	30.50

\*SECNO 1735.600

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
44.94	44.18	.00	1032.	1288.	410.	410.	39.50	43.40

1735.60	14.79	44.39	.00	.00	44.40	.01	.22	.00	37.10
2320.	1274.	896.	150.	3329.	680.	425.	7133.	3034.	40.00
16.80	.38	1.32	.35	.100	.070	.100	.000	29.60	1066.12
.000174	42.	42.	42.	1	0	4	.00	1652.24	2718.36

0  
\*SECNO 1735.500

1735.50	14.83	44.43	.00	.00	44.45	.03	.05	.01	37.10
2320.	416.	1192.	712.	640.	682.	1360.	7150.	3041.	40.00
16.85	.65	1.75	.52	.100	.070	.100	.000	29.60	1922.00
.000305	210.	200.	200.	0	0	0	.00	1192.07	3114.07

0  
\*SECNO 1735.300

1735.30	16.38	44.58	.00	.00	44.59	.01	.13	.01	41.60
2320.	169.	801.	1350.	682.	828.	4790.	7251.	3089.	39.10

.000100 510. 480. 1200. 1 0 0 .00 2821.07 6146.92

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

\*SECNO 1735.200

1735.20	16.39	44.59	.00	.00	44.60	.01	.01	.00	38.20
2320.	191.	778.	1351.	742.	758.	4833.	7266.	3095.	38.20
17.33	.26	1.03	.28	.100	.070	.100	.000	28.20	3330.43
.000096	100.	100.	100.	1	0	0	.00	2820.72	6151.15

0

SPECIAL BRIDGE

SB	XK	XKOR	COFB	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.60	.00	25.50	5.00	576.00	2.00	29.50	29.50	

\*SECNO 1735.100

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
44.99	44.60	.00	1612.	702.	576.	576.	42.10	43.70

1735.10	16.42	44.62	.00	.00	44.63	.01	.03	.00	38.20
2320.	193.	771.	1357.	752.	760.	4907.	7271.	3098.	38.20
17.35	.26	1.01	.28	.100	.070	.100	.000	28.20	3330.11
.000094	40.	40.	40.	0	0	6	.00	2841.76	6171.87

0

\*SECNO 1735.000

1735.00	16.44	44.64	.00	.00	44.64	.01	.01	.00	41.60
2320.	172.	776.	1372.	711.	832.	4935.	7293.	3107.	39.10
17.43	.24	.93	.28	.100	.070	.100	.000	28.20	3322.03
.000092	160.	130.	150.	0	0	0	.00	2842.02	6164.05

0

CCHV= .100 CEHV= .300

\*SECNO 1734.000

1734.00	14.23	44.77	.00	.00	44.78	.00	.14	.00	40.20
2320.	636.	683.	1001.	2303.	821.	3862.	7561.	3216.	40.60
18.49	.28	.83	.26	.100	.070	.100	.000	30.54	2836.28
.000075	1165.	1310.	2000.	0	0	0	.00	2387.32	5223.60

0

\*SECNO 1733.400

1733.40	14.43	44.93	.00	.00	44.94	.01	.16	.00	40.00
2320.	187.	949.	1184.	397.	839.	3172.	7779.	3291.	40.60
19.15	.47	1.13	.37	.100	.070	.100	.000	30.50	3289.50
.000134	1300.	1620.	1830.	2	0	0	.00	1431.27	4720.77

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

CCHV= .300 CEHV= .500

\*SECNO 1733.300

1733.30	11.02	45.02	.00	.00	45.02	.00	.08	.00	38.00
2350.	31.	375.	1943.	82.	401.	5254.	7864.	3317.	35.50
19.57	.38	.94	.37	.100	.070	.100	.000	34.00	3293.69
.000095	600.	580.	750.	1	0	0	.00	1695.74	4989.43

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.70	.00	23.40	1.90	262.00	.50	34.50	34.50

\*SECNO 1733.200

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
46.97	45.03	.00	302.	2063.	262.	262.	44.40	46.40

1733.20	12.52	46.52	.00	.00	46.52	.00	1.50	.00	38.00
2350.	1751.	334.	265.	6883.	463.	702.	7875.	3320.	35.50
19.63	.25	.72	.38	.100	.070	.100	.000	34.00	1419.20
.000046	75.	75.	75.	0	0	4	.00	2047.21	3466.41

\*SECNO 1733.100

1733.10	12.52	46.52	.00	.00	46.52	.00	.00	.00	38.00
2350.	1752.	333.	265.	6892.	463.	702.	7894.	3325.	35.50
19.72	.25	.72	.38	.100	.070	.100	.000	34.00	1419.00
.000046	100.	100.	100.	0	0	0	.00	2047.75	3466.75

CCHV= .100 CEHV= .300

\*SECNO 1732.400

1732.40	15.08	46.58	.00	.00	46.59	.00	.06	.00	41.80
2350.	433.	592.	1326.	1846.	786.	4032.	8123.	3398.	41.80
20.63	.23	.75	.33	.070	.060	.070	.000	31.50	1811.80
.000043	1325.	1425.	1395.	0	0	0	.00	2684.83	4496.64

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	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 1732.300

1732.30	15.09	46.59	.00	.00	46.59	.00	.01	.00	41.80
2350.	407.	708.	1235.	1848.	958.	3994.	8148.	3407.	41.80
20.74	.22	.74	.31	.070	.060	.070	.000	31.50	1811.02
.000038	5.	100.	250.	0	0	0	.00	2686.00	4497.02

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.90	.00	26.00	2.30	455.00	3.00	32.10	32.10

\*SECNO 1732.200



.000055 65. 65. 65. 0 0 0 .00 1912.00 3162.03  
 0  
 CCHV= .100 CEHV= .300  
 \*SECNO 1730.000  
 1730.00 13.50 46.90 .00 .00 47.24 .35 .27 .10 47.90  
 2350. 0. 2350. 0. 0. 496. 0. 9502. 3562. 48.90  
 21.78 .00 4.73 .00 .050 .035 .070 .000 33.40 2135.21  
 .001233 1310. 1310. 3700. 2 0 0 .00 82.69 2217.90

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SECNO	DEPTH	CWSEL	CRWS	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

\*SECNO 1729.400  
 1729.40 14.95 47.95 .00 .00 48.26 .31 1.01 .00 46.50  
 2350. 12. 2157. 181. 17. 464. 315. 8538. 3595. 46.20  
 21.85 .70 4.65 .58 .050 .035 .070 .000 33.00 2176.71  
 .000856 720. 720. 7800. 3 0 0 .00 437.62 2614.33

0  
 CCHV= .300 CEHV= .500  
 \*SECNO 1729.300  
 1729.30 15.20 48.20 .00 .00 48.41 .20 .12 .03 46.50  
 2350. 21. 1981. 349. 33. 504. 407. 8540. 3596. 46.20  
 21.86 .64 3.93 .86 .070 .060 .070 .000 33.00 2080.02  
 .001627 100. 100. 100. 2 0 0 .00 583.80 2663.82

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.90	.00	11.70	2.30	300.00	1.25	33.50	33.50	

\*SECNO 1729.200  
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
49.69	48.42	.02	1463.	887.	300.	301.	45.70	47.60

1729.20 15.21 48.21 .00 .00 48.42 .20 .01 .00 46.50  
 2350. 21. 1977. 352. 34. 505. 411. 8540. 3597. 46.20  
 21.86 .63 3.92 .86 .070 .060 .070 .000 33.00 2075.49  
 .001615 23. 23. 23. 2 0 4 .00 590.28 2665.77

0  
 \*SECNO 1729.100  
 1729.10 15.32 48.32 .00 .00 48.52 .20 .10 .00 46.50  
 2350. 29. 1905. 416. 48. 485. 454. 8542. 3598. 46.20  
 21.86 .60 3.93 .91 .070 .060 .070 .000 33.00 2030.04  
 .001700 60. 60. 60. 0 0 0 .00 655.66 2685.70

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 CCHV= .100 CEHV= .300

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
47.24	46.59	.00	1890.	457.	455.	456.	41.10	44.20

1732.20	15.11	46.61	.00	.00	46.51	.01	.02	.00	41.80
2350.	600.	927.	823.	1906.	960.	2523.	8160.	3412.	41.80
20.78	.31	.97	.33	.070	.060	.070	.000	31.50	1784.80
.000065	85.	85.	85.	0	0	6	.00	2649.84	4434.64

0

\*SECNO 1732.100

1732.10	15.13	46.63	.00	.00	46.65	.02	.03	.01	41.80
2350.	454.	1175.	721.	1049.	731.	1485.	8186.	3427.	41.80
20.85	.43	1.61	.49	.070	.060	.070	.000	31.50	1829.42
.000219	580.	320.	5.	0	0	0	.00	2183.20	4012.62

0

CCHV= .100 CEHV= .300

\*SECNO 1731.400

1731.40	13.05	46.85	.00	.00	46.85	.01	.20	.00	43.50
2350.	569.	589.	1192.	1671.	590.	2599.	8326.	3497.	43.40
21.58	.34	1.00	.46	.070	.060	.070	.000	33.80	1256.52
.000091	1495.	1495.	1495.	0	0	0	.00	1887.86	3144.39

0

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SECNO	DEPTH	CWSEL	CRWS	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	XLDBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500

\*SECNO 1731.300

1731.30	13.06	46.86	.00	.00	46.86	.01	.01	.00	43.50
2350.	572.	585.	1193.	1691.	592.	2620.	8337.	3502.	43.40
21.63	.34	.99	.46	.070	.060	.070	.000	33.80	1251.56
.000089	100.	100.	100.	0	0	0	.00	1906.33	3157.89

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.90	.00	13.00	5.00	313.00	3.00	34.00	34.00

\*SECNO 1731.200

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
48.22	46.86	.00	2119.	231.	313.	315.	43.00	44.40

1731.20	13.06	46.86	.00	.00	46.87	.01	.01	.00	43.50
2350.	573.	584.	1193.	1697.	592.	2627.	8341.	3503.	43.40
21.65	.34	.99	.45	.070	.060	.070	.000	33.80	1250.03
.000089	35.	35.	35.	0	0	6	.00	1912.01	3162.05

0

\*SECNO 1731.100

1731.10	13.07	46.87	.00	.00	46.88	.01	.00	.00	43.50
2350.	629.	785.	936.	1697.	592.	2627.	8348.	3506.	43.40

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
50.56	50.01	.00	1613.	635.	463.	463.	46.50	48.30

1726.10	14.91	50.01	.00	.00	50.04	.02	.02	.00	48.30
2250.	417.	1116.	717.	974.	721.	1382.	8910.	3743.	48.30
23.72	.43	1.55	.52	.070	.060	.070	.000	35.10	1797.63
.000207	27.	27.	27.	2	0	6	.00	1451.98	3249.61

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

\*SECNO 1726.000

1726.00	14.93	50.03	.00	.00	50.05	.02	.02	.00	48.30
2250.	415.	1119.	716.	985.	715.	1400.	8915.	3746.	44.80
23.74	.42	1.56	.51	.070	.060	.070	.000	35.10	1795.36
.000200	75.	75.	75.	0	0	0	.00	1454.64	3250.00

0

CCHV= .100 CEHV= .300

\*SECNO 1725.000

1725.00	15.06	50.26	.00	.00	50.27	.01	.22	.00	45.10
2250.	1350.	798.	101.	3591.	932.	355.	9151.	3831.	45.10
25.05	.38	.86	.29	.070	.060	.070	.000	35.20	1647.89
.000047	2700.	2480.	2350.	2	0	0	.00	1437.81	3085.71

0

\*SECNO 1724.600

1724.60	15.09	50.29	.00	.00	50.29	.01	.02	.00	45.10
2250.	1353.	795.	102.	3614.	934.	360.	9199.	3845.	45.10
25.27	.37	.85	.28	.070	.060	.070	.000	35.20	1647.86
.000047	400.	500.	450.	2	0	0	.00	1446.62	3094.47

0

CCHV= .300 CEHV= .500

\*SECNO 1724.500

1724.50	15.09	50.29	.00	.00	50.30	.01	.01	.00	39.50
2250.	1440.	662.	148.	3757.	697.	436.	9214.	3849.	40.50
25.34	.38	.95	.34	.070	.060	.070	.000	35.20	1647.04
.000048	150.	100.	70.	0	0	0	.00	1449.50	3096.54

0

SPECIAL BRIDGE

SB	XK	XKDR	COFR	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	3.00	.00	34.30	3.00	423.00	1.20	36.00	36.00

\*SECNO 1724.400

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
50.98	50.30	.00	1630.	618.	423.	422.	45.80	47.10

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SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 1728.300									
1728.30	15.44	49.24	.00	.00	49.25	.02	.72	.02	42.80
2250.	913.	984.	453.	1504.	641.	724.	8626.	3635.	42.40
22.39	.61	1.54	.63	.070	.060	.070	.000	33.80	1568.91
.000163	1900.	1880.	1950.	2	0	0	.00	1056.29	2625.20

0  
CCHV= .300 CEHV= .500

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 1728.200									
1728.20	15.45	49.25	.00	.00	49.27	.02	.02	.00	43.50
2250.	905.	865.	480.	1498.	572.	746.	8633.	3638.	43.00
22.42	.60	1.51	.64	.070	.060	.070	.000	33.80	1566.13
.000167	100.	100.	100.	2	0	0	.00	1059.62	2625.74

SPECIAL BRIDGE

SB	YK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	3.00	.00	16.20	3.90	346.00	1.50	34.50	34.50	

\*SECNO 1728.100  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
50.28	49.27	.00	1610.	642.	346.	346.	46.10	47.60

1728.10	15.52	49.32	.00	.00	49.34	.02	.07	.00	43.50
2250.	917.	850.	483.	1555.	576.	766.	8634.	3638.	43.00
22.43	.59	1.48	.63	.070	.060	.070	.000	33.80	1546.27
.000158	24.	24.	24.	1	0	7	.00	1083.34	2629.60

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 1728.000									
1728.00	15.53	49.33	.00	.00	49.35	.02	.01	.00	42.80
2250.	888.	925.	437.	1570.	646.	747.	8639.	3640.	42.40
22.44	.57	1.43	.59	.070	.060	.070	.000	33.80	1545.64
.000140	65.	65.	65.	0	0	0	.00	1084.09	2629.73

0  
CCHV= .100 CEHV= .300

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SECNO	DEPTH	CWSEL	CRISW	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 1727.000									
1727.00	14.85	49.55	.00	.00	49.56	.01	.21	.00	45.20
2250.	639.	853.	758.	1113.	639.	1466.	8750.	3681.	43.60
22.96	.57	1.34	.52	.070	.060	.070	.000	34.70	3049.59
.000132	1550.	1550.	1600.	1	0	0	.00	1165.89	4215.47

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 1726.800									
1726.80	14.06	49.76	.00	.00	49.82	.06	.25	.01	45.90
2250.	500.	1539.	211.	743.	674.	389.	8817.	3708.	47.00
23.14	.67	2.28	.54	.070	.060	.070	.000	35.70	1142.55
.000402	1210.	1155.	1100.	2	0	0	.00	935.53	2078.09

\*SECNO 1726.700

1726.70	14.10	49.80	.00	.00	49.86	.06	.04	.00	42.90
2250.	533.	1484.	233.	791.	622.	423.	8821.	3710.	43.80
23.16	.67	2.39	.55	.070	.060	.070	.000	35.70	1123.44
.000373	100.	100.	100.	1	0	0	.00	968.98	2092.42

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.90	.00	25.50	3.00	370.00	1.50	35.70	35.70

\*SECNO 1726.600

6870 D.S. ENERGY OF 49.86 HIGHER THAN COMPUTED ENERGY OF 49.36  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	BWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	
50.70	49.86	.00	1665.	584.	370.	370.	45.60	46.80	
1726.60	14.10	49.80	.00	.00	49.86	.06	.00	42.90	
2250.	534.	1482.	234.	794.	622.	425.	8822.	3711.	43.80
23.16	.67	2.38	.55	.070	.060	.070	.000	35.70	1120.10
.000371	18.	18.	18.	2	0	6	.00	974.82	2094.92

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SECNO	DEPTH	CWSEL	CRISW	WSELK	ES	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	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 1726.500

1726.50	14.13	49.83	.00	.00	49.88	.05	.02	.00	45.90
2250.	513.	1517.	220.	772.	678.	410.	8824.	3712.	47.00
23.17	.66	2.24	.54	.070	.060	.070	.000	35.70	1108.95
.000384	50.	50.	50.	0	0	0	.00	994.33	2103.29

0

CCHV= .100 CEHV= .300

\*SECNO 1726.300

1726.30	14.89	49.99	.00	.00	49.99	.00	.11	.00	43.00
2250.	969.	601.	680.	2348.	713.	1970.	8900.	3740.	44.80
23.69	.41	.84	.35	.070	.060	.070	.000	35.10	1770.37
.000053	900.	960.	1050.	2	0	0	.00	1478.58	3248.95

0

CCHV= .300 CEHV= .500

\*SECNO 1726.200

1726.20	14.89	49.99	.00	.00	50.01	.02	.01	.01	48.30
2250.	413.	1122.	714.	964.	720.	1370.	8908.	3743.	48.30
23.72	.43	1.56	.52	.070	.060	.070	.000	35.10	1799.88
.000211	90.	90.	90.	1	0	0	.00	1449.33	3249.21

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	3.00	.00	29.90	4.70	463.00	1.80	36.00	.00

\*SECNO 1726.100

PRESSURE AND WEIR FLOW

SECNO	DEPTH	CWSEL	CRIMS	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

1724.40	15.14	50.34	.00	.00	50.34	.01	.05	.00	39.50
2250.	1446.	655.	149.	3816.	700.	450.	9217.	3850.	40.50
25.35	.38	.94	.33	.070	.060	.070	.000	35.20	1646.49
.000046	21.	21.	21.	0	0	5	.00	1471.72	3118.21

0

\*SECNO 1724.300

1724.30	15.14	50.34	.00	.00	50.35	.01	.00	.00	45.10
2250.	1359.	787.	104.	3675.	938.	369.	9223.	3852.	45.10
25.38	.37	.84	.28	.070	.060	.070	.000	35.20	1647.77
.000045	60.	60.	60.	0	0	0	.00	1435.29	3083.05

0

CCHV= .100 CEHV= .300

\*SECNO 1724.000

3265 DIVIDED FLOW

1724.00	13.81	50.41	.00	.00	50.41	.00	.07	.00	45.70
2250.	726.	565.	959.	2450.	887.	3248.	9469.	3921.	45.40
26.73	.30	.64	.30	.070	.060	.070	.000	36.60	4239.31
.000029	2100.	1780.	1450.	1	0	0	.00	1843.70	6133.32

0

\*SECNO 1723.600

3265 DIVIDED FLOW

1723.60	13.82	50.42	.00	.00	50.43	.00	.01	.00	45.70
2250.	243.	726.	1281.	881.	888.	3331.	9519.	3937.	45.40
26.92	.28	.82	.38	.070	.060	.070	.000	36.60	4457.63
.000048	500.	250.	350.	0	0	0	.00	1627.67	6133.48

0

CCHV= .300 CEHV= .500

\*SECNO 1723.500

3265 DIVIDED FLOW

1723.50	13.83	50.43	.00	.00	50.43	.00	.00	.00	45.70
2250.	244.	725.	1281.	882.	888.	3333.	9530.	3941.	45.40
26.97	.28	.82	.38	.070	.060	.070	.000	36.60	4457.45
.000048	120.	100.	80.	0	0	0	.00	1628.37	6133.51

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SECNO	DEPTH	CWSEL	CRIMS	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

SPECIAL BRIDGE

SB	YK	YKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.90	.00	42.70	6.30	447.00	2.00	37.50	37.50

\*SECNO 1723.400

3265 DIVIDED FLOW

1722.60	13.15	50.85	.00	.00	50.88	.03	.03	.00	46.00
2250.	532.	1098.	620.	634.	677.	720.	9767.	4016.	44.00
27.66	.84	1.62	.86	.050	.060	.050	.000	37.70	1620.49
.000196	20.	20.	20.	2	0	6	.00	607.25	2227.74

\*SECNO 1722.500

1722.50	13.36	50.86	.00	.00	50.89	.03	.01	.00	46.80
2250.	466.	1199.	585.	571.	747.	663.	9770.	4016.	47.70
27.67	.82	1.61	.88	.050	.060	.050	.000	37.50	1619.81
.000220	50.	50.	50.	0	0	0	.00	608.22	2228.03

CCHV= .100 CEHV= .300

\*SECNO 1722.300

1722.30	12.79	51.29	.00	.00	51.31	.01	.41	.00	45.90
2250.	368.	784.	1098.	590.	636.	1542.	9917.	4063.	46.60
28.52	.62	1.23	.71	.050	.060	.050	.000	38.50	1550.09
.000115	2230.	2575.	3015.	2	0	0	.00	901.80	2451.88

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

CCHV= .300 CEHV= .500

\*SECNO 1722.200

1722.20	12.80	51.30	.00	.00	51.32	.01	.01	.00	47.20
2250.	272.	880.	1098.	482.	742.	1507.	9923.	4065.	47.00
28.55	.57	1.19	.73	.050	.060	.050	.000	38.50	1549.35
.000124	90.	100.	110.	0	0	0	.00	904.16	2453.51

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.70	.00	26.70	6.30	545.00	3.00	39.00	39.00

\*SECNO 1722.100

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
51.72	51.32	.00	1139.	1114.	545.	545.	49.50	50.90

1722.10	12.89	51.39	.00	.00	51.41	.01	.09	.00	47.20
2250.	280.	861.	1108.	505.	749.	1559.	9925.	4066.	47.00
28.56	.56	1.15	.71	.050	.060	.050	.000	38.50	1545.40
.000115	31.	31.	31.	1	0	6	.00	916.84	2462.24

\*SECNO 1722.000

1722.00	12.90	51.40	.00	.00	51.41	.01	.01	.00	45.90
2250.	376.	763.	1111.	620.	642.	1605.	9930.	4067.	46.60
28.59	.61	1.19	.69	.050	.060	.050	.000	38.50	1545.31
.000105	70.	70.	70.	0	0	0	.00	917.14	2462.45

CCHV= .100 CEHV= .300

\*SECNO 1721.500

1721.50	12.90	51.50	.00	.00	51.50	.00	.09	.00	46.60
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PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
51.04	50.43	.00	1619.	628.	447.	447.	45.90	47.10

1723.40	13.87	50.47	.00	.00	50.47	.00	.04	.00	45.70
2250.	248.	718.	1284.	908.	892.	3382.	9533.	3942.	45.40
26.99	.27	.81	.38	.070	.060	.070	.000	36.60	4452.61
.000046	30.	30.	30.	0	0	6	.00	1647.40	6134.48

0  
\*SECNO 1723.300

3265 DIVIDED FLOW

1723.30	13.87	50.47	.00	.00	50.48	.00	.00	.00	45.70
2250.	247.	719.	1284.	907.	892.	3379.	9539.	3944.	45.40
27.01	.27	.81	.38	.070	.060	.070	.000	36.60	4452.84
.000046	50.	50.	50.	0	0	0	.00	1646.51	6134.43

0  
CCHV= .100 CEHV= .300  
\*SECNO 1723.000

1723.00	13.18	50.68	.00	.00	50.71	.03	.23	.01	46.80
2250.	440.	1245.	565.	522.	733.	618.	9742.	4008.	47.70
27.54	.84	1.70	.91	.050	.060	.050	.000	37.50	1632.17
.000253	2490.	2530.	2500.	2	0	0	.00	590.53	2222.70

0  
\*SECNO 1722.800

1722.80	13.30	50.80	.00	.00	50.82	.03	.11	.00	46.80
2250.	456.	1216.	578.	553.	742.	646.	9762.	4014.	47.70
27.64	.83	1.64	.89	.050	.060	.050	.000	37.50	1624.38
.000231	430.	480.	450.	2	0	0	.00	601.69	2226.07

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	LOSS	BANK ELEV
Q	QLOB	BCH	QROB	ALOB	ACH	AROB	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 1722.700

1722.70	13.12	50.82	.00	.00	50.85	.03	.02	.00	46.00
2250.	528.	1105.	617.	625.	675.	711.	9767.	4015.	44.00
27.66	.84	1.64	.87	.050	.060	.050	.000	37.70	1622.72
.000201	90.	100.	110.	0	0	0	.00	604.06	2226.78

0  
SPECIAL BRIDGE

SB XK	XKOR	COFB	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	3.00	.00	29.10	4.70	354.00	1.80	38.00	38.00

\*SECNO 1722.600  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
51.80	50.85	.00	1693.	551.	354.	354.	46.80	48.30



29.40 .39 .72 .41 .050 .060 .050 .000 38.60 6729.42  
 .000041 1700. 1450. 1200. 2 0 0 .00 2131.14 8860.56

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

\*SECNO 1721.300

1721.30	12.78	51.58	.00	.00	51.60	.02	.09	.00	45.50
2250.	659.	829.	762.	839.	604.	1234.	10168.	4164.	47.00
29.79	.78	1.37	.62	.050	.060	.050	.000	38.80	3093.55
.000157	1850.	1450.	800.	1	0	0	.00	1300.13	4393.68

0

CCHV= .300 CEHV= .500

\*SECNO 1721.200

1721.20	12.80	51.60	.00	.00	51.61	.02	.02	.00	43.50
2250.	754.	635.	861.	898.	437.	1321.	10174.	4167.	47.00
29.82	.84	1.45	.65	.050	.060	.050	.000	38.80	3093.38
.000164	110.	100.	90.	0	0	0	.00	1324.34	4417.72

0

SPECIAL BRIDGE

SB	XK	XKOR	CDFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	3.00	.00	19.60	2.00	254.00	1.00	39.50	39.50	

\*SECNO 1721.100

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	BWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
53.50	51.62	.00	1751.	505.	254.	254.	48.90	50.40

1721.10	12.88	51.68	.00	.00	51.69	.01	.08	.00	43.50
2250.	755.	615.	881.	931.	441.	1413.	10176.	4168.	47.00
29.82	.81	1.39	.62	.050	.060	.050	.000	38.80	3087.60
.000149	25.	25.	25.	1	0	7	.00	1376.85	4464.45

0

\*SECNO 1721.000

1721.00	12.90	51.70	.00	.00	51.71	.01	.01	.00	45.50
2250.	662.	804.	784.	1069.	746.	1629.	10183.	4171.	47.00
29.87	.62	1.08	.48	.050	.060	.050	.000	38.80	3188.86
.000094	120.	110.	100.	0	0	0	.00	1657.98	4846.84

0

CCHV= .100 CEHV= .300

1

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

\*SECNO 1718.000

1718.00	12.98	52.48	.00	.00	52.60	.11	.86	.03	49.50
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30.33	.96	2.76	.00	.050	.050	.050	.000	39.50	4114.94
.000615	3540.	4550.	5060.	2	0	0	.00	165.75	4280.68

0

\*SECNO 1717.000

1717.00	13.50	53.40	.00	.00	53.43	.03	.82	.01	52.20
2160.	235.	1191.	734.	368.	702.	1213.	10486.	4329.	51.30
30.85	.64	1.70	.61	.050	.050	.050	.000	39.90	3981.36
.000235	2400.	2270.	2300.	2	0	0	.00	2132.25	6113.62

0

\*SECNO 1716.300

1716.30	13.76	53.96	.00	.00	53.99	.03	.56	.00	50.40
2000.	616.	934.	450.	1010.	496.	570.	10609.	4418.	50.30
31.40	.61	1.88	.79	.050	.050	.050	.000	40.20	1113.58
.000224	2400.	2460.	2500.	2	0	0	.00	1004.48	2118.06

0

CCHV= .300 CEHV= .500

\*SECNO 1716.200

1716.20	13.78	53.98	.00	.00	54.01	.03	.02	.00	45.00
2000.	704.	725.	571.	1099.	339.	668.	10614.	4420.	43.80
31.42	.64	2.14	.86	.050	.050	.050	.000	40.20	1113.56
.000207	100.	100.	100.	0	0	0	.00	1004.98	2118.54

SPECIAL BRIDGE

SB	XK	XKOR	COFB	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	20.10	1.00	190.00	.50	41.00	41.00

\*SECNO 1716.100  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
56.67	54.01	.00	1452.	548.	190.	190.	49.20	50.50

1716.10	13.96	54.16	.00	.00	54.18	.03	.17	.00	45.00
2000.	749.	676.	576.	1220.	344.	717.	10615.	4421.	43.80
31.43	.61	1.97	.80	.050	.050	.050	.000	40.20	1113.47
.000171	20.	20.	20.	2	0	6	.00	1008.01	2121.48

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SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLCB	QCH	QROB	ALOB	ACH	AROB	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 1716.000

1716.00	13.98	54.18	.00	.00	54.20	.02	.01	.00	50.40
2000.	678.	860.	463.	1159.	508.	629.	10619.	4422.	50.30
31.45	.58	1.69	.74	.050	.050	.050	.000	40.20	1113.46
.000176	80.	80.	80.	0	0	0	.00	1008.28	2121.73

0

CCHV= .100 CEHV= .300

\*SECNO 1715.800

1715.80	13.82	54.52	.00	.00	54.52	.01	.32	.00	50.40
2000.	346.	636.	1018.	818.	643.	2097.	10833.	4509.	51.10
32.85	.42	.99	.49	.050	.050	.050	.000	40.70	2582.74
.000065	3100.	3280.	3220.	2	0	0	.00	1360.18	3942.93

0

\*SECNO 1715.700

1715.70	13.83	54.53	.90	.00	54.53	.01	.01	.00	45.00
2000.	444.	393.	1163.	949.	331.	2304.	10846.	4513.	44.40
32.92	.47	1.19	.50	.050	.050	.050	.000	40.70	2581.68
.000062	150.	150.	150.	0	0	0	.00	1364.54	3946.22

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	3.00	.00	17.90	1.30	203.00	1.00	42.00	42.00	

\*SECNO 1715.600

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	
56.88	54.53	.00	1624.	376.	203.	203.	50.20	51.50	
1715.60	13.90	54.60	.00	.00	54.61	.01	.08	.00	45.00
2000.	448.	383.	1169.	979.	333.	2374.	10847.	4514.	44.40
32.93	.46	1.15	.49	.050	.050	.050	.000	40.70	2577.53
.000058	21.	21.	21.	0	0	6	.00	1381.57	3959.10

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SECNO	DEPTH	CWSEL	CRWS	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

\*SECNO 1715.500

1715.50	13.91	54.61	.00	.00	54.61	.01	.00	.00	50.40
2000.	353.	620.	1027.	854.	649.	2180.	10854.	4516.	51.10
32.96	.41	.95	.47	.050	.050	.050	.000	40.70	2577.67
.000060	75.	75.	75.	0	0	0	.00	1381.03	3958.69

CCHV= .100 CEHV= .300

\*SECNO 1715.300

1715.30	11.79	54.69	.00	.00	54.69	.00	.08	.00	52.00
2000.	113.	426.	1461.	448.	529.	3135.	10984.	4562.	52.30
33.73	.25	.81	.47	.050	.050	.050	.000	42.90	4779.46
.000048	1530.	1510.	1420.	0	0	0	.00	1388.96	6168.42

CCHV= .300 CEHV= .500

\*SECNO 1715.200

1715.20	11.79	54.69	.00	.00	54.70	.00	.01	.00	46.00
2000.	164.	309.	1527.	533.	319.	3263.	11000.	4568.	44.80
33.82	.31	.97	.47	.050	.050	.050	.000	42.90	4779.26
.000047	170.	170.	170.	0	0	0	.00	1389.20	6168.46

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.60	.00	14.30	1.00	170.00	1.00	43.50	43.50	

\*SECNO 1715.100

PRESSURE AND WEIR FLOW

ESPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
58.05	54.70	.00	1600.	401.	170.	167.	51.40	52.80

1715.10	11.92	54.82	.00	.00	54.83	.00	.13	.00	46.00
2000.	171.	297.	1532.	581.	323.	3398.	11002.	4569.	44.90
33.83	.29	.92	.45	.050	.050	.050	.000	42.90	4762.78
.000042	25.	25.	25.	0	0	7	.00	1408.75	6171.53

0  
1

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SECNO	DEPTH	CWSEL	CRISW	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

\*SECNO 1715.000

1715.00	11.93	54.83	.00	.00	54.83	.00	.00	.00	52.00
2000.	121.	411.	1468.	494.	538.	3274.	11013.	4572.	52.30
33.90	.24	.76	.45	.050	.050	.050	.000	42.90	4762.73
.000042	110.	110.	110.	0	0	0	.00	1408.81	6171.54

0

CCHV= .100 CEHV= .300

\*SECNO 1714.000

1714.00	10.90	54.90	.00	.00	54.91	.00	.07	.00	51.00
2000.	1072.	371.	557.	2664.	512.	1420.	11166.	4632.	51.60
34.80	.40	.73	.39	.050	.060	.050	.000	44.00	4193.72
.000055	1675.	1550.	1365.	0	0	0	.00	2024.35	6218.08

0

\*SECNO 1713.300

3265 DIVIDED FLOW

1713.30	9.65	55.15	.00	.00	55.19	.04	.27	.01	52.60
1800.	104.	815.	881.	211.	403.	953.	11329.	4718.	52.10
35.26	.49	2.02	.92	.050	.060	.050	.000	45.50	2438.90
.000538	2370.	2320.	2220.	2	0	0	.00	1217.99	3666.10

0

CCHV= .300 CEHV= .500

\*SECNO 1713.200

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 55.60 ELREA= 55.60

1713.20	7.65	54.65	.00	.00	56.20	1.55	.25	.76	54.60
1800.	0.	1800.	0.	0.	180.	0.	11332.	4720.	54.60
35.26	.00	10.00	.00	.050	.060	.050	.000	47.00	2849.00
.033689	150.	150.	150.	3	0	0	.00	40.00	2889.00

0

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SECNO	DEPTH	CWSEL	CRISW	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

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 52.59 ,NOT 54.65 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.10	1.80	2.60	.00	30.70	4.00	156.00	.20	49.00	49.00

\*SECNO 1713.100

330: HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLMC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	
58.37	56.91	.00	408.	1394.	156.	156.	54.60	56.70	
1713.10	9.88	56.88	.00	.00	56.88	.00	.68	.00	54.60
1800.	468.	146.	1186.	1339.	269.	2620.	11334.	4721.	54.60
35.28	.35	.54	.45	.050	.060	.050	.000	47.00	2105.32
.000058	38.	38.	38.	0	0	5	.00	1873.31	3978.63

0

\*SECNO 1713.000

1713.00	11.38	56.88	.00	.00	56.90	.01	.01	.00	52.60
1800.	763.	646.	391.	1314.	501.	1037.	11342.	4726.	52.10
35.32	.58	1.29	.38	.050	.060	.050	.000	45.50	2105.18
.000163	100.	100.	100.	2	0	0	.00	2072.91	4178.10

0

CCHV= .100 CEHV= .300

\*SECNO 1712.800

1712.80	10.14	57.24	.00	.00	57.25	.01	.35	.00	53.30
1800.	404.	427.	970.	696.	394.	2141.	11493.	4839.	53.60
36.30	.58	1.08	.45	.050	.060	.050	.000	47.10	703.01
.000155	2240.	2470.	2020.	2	0	0	.00	2663.72	3366.73

0

CCHV= .300 CEHV= .500

\*SECNO 1712.700

1712.70	10.16	57.26	.00	.00	57.27	.01	.02	.00	52.50
1800.	481.	445.	875.	735.	376.	1978.	11500.	4845.	55.30
36.34	.65	1.18	.44	.050	.060	.050	.000	47.10	696.50
.000186	100.	100.	100.	0	0	0	.00	2688.13	3384.63

0

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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.70	.00	21.10	3.00	239.00	2.00	48.00	48.00

\*SECNO 1712.600

PRESSURE AND WEIR FLOW

EGPRS	EGLMC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
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58.63 57.27 .00 952. 861. 239. 239. 55.30 56.50

1712.60 10.47 57.57 .00 .00 57.57 .00 .31 .00 52.50  
1800. 465. 360. 975. 932. 393. 2685. 11503. 4847. 55.30  
36.36 .50 .92 .36 .050 .060 .050 .000 47.10 570.63  
.000105 30. 30. 30. 0 0 2 .00 3160.13 3730.76

0

\*SECNO 1712.500

1712.50 10.47 57.57 .00 .00 57.58 .00 .00 .00 53.30  
1800. 401. 347. 1052. 901. 413. 2889. 11507. 4851. 53.60  
36.39 .45 .84 .36 .050 .060 .050 .000 47.10 569.61  
.000088 50. 50. 50. 0 0 0 .00 3163.95 3733.56

0

CCHV= .100 CEHV= .300

\*SECNO 1712.300

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

1712.30 8.02 57.62 .00 .00 58.48 .85 .64 .25 58.10  
1800. 0. 1798. 2. 0. 243. 3. 11622. 4936. 58.10  
36.47 .00 7.41 .49 .050 .060 .050 .000 49.60 2243.80  
.011589 1920. 2120. 2370. 2 0 0 .00 101.88 2497.86

0

CCHV= .300 CEHV= .500

\*SECNO 1712.200

1

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

3301 HV CHANGED MORE THAN HVINS

1712.20 9.31 58.91 .00 .00 59.07 .16 .39 .21 51.50  
1800. 327. 986. 486. 260. 233. 359. 11623. 4937. 54.40  
36.48 1.26 4.23 1.35 .050 .060 .050 .000 49.60 1833.08  
.001922 100. 100. 100. 4 0 0 .00 821.94 2655.02

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	16.90	1.00	166.00	1.00	50.00	50.00

\*SECNO 1712.100

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
						AREA		
61.76	59.08	.01	920.	893.	166.	166.	57.20	58.90

1712.10 9.96 59.56 .00 .00 59.61 .05 .54 .00 51.50  
1800. 522. 652. 626. 566. 252. 629. 11624. 4938. 54.40  
36.48 .92 2.59 1.00 .050 .060 .050 .000 49.60 1741.06

0  
 \*SECNO 1712.000  
 1712.00 10.01 59.61 .00 .00 59.64 .04 .03 .00 58.10  
 1800. 454. 744. 602. 536. 343. 612. 11625. 4939. 58.10  
 36.49 .85 2.17 .98 .050 .060 .050 .000 49.60 1734.88  
 .000664 50. 50. 50. 2 0 0 .00 1005.69 2740.56

CCHV= .100 CEHV= .300

\*SECNO 1711.800  
 1711.80 11.57 59.87 .00 .00 59.89 .02 .25 .00 55.30  
 1800. 162. 730. 909. 201. 452. 1027. 11647. 4950. 54.60  
 36.65 .80 1.61 .88 .050 .060 .050 .000 48.30 1012.07  
 .000243 1450. 1000. 10. 2 0 0 .00 528.50 1540.57

0  
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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	ARCB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRDB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLDBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500

\*SECNO 1711.700  
 1711.70 11.59 59.89 .00 .00 59.91 .02 .01 .00 51.30  
 1800. 287. 516. 997. 288. 294. 1106. 11649. 4950. 50.50  
 36.66 1.00 1.76 .90 .050 .060 .050 .000 48.30 1011.80  
 .000225 150. 100. 20. 2 0 0 .00 529.79 1541.59

SPECIAL BRIDGE

SB	YK	YKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.90	.00	12.30	1.00	156.00	1.50	48.00	48.00

\*SECNO 1711.600  
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
63.11	59.91	.00	1489.	311.	156.	156.	55.10	56.40

1711.60 11.66 59.96 .00 .00 59.98 .02 .07 .00 51.30  
 1800. 288. 508. 1004. 295. 296. 1136. 11650. 4951. 50.50  
 36.67 .97 1.72 .88 .050 .060 .050 .000 48.30 1010.38  
 .000213 20. 20. 20. 2 0 7 .00 536.71 1547.08

0  
 \*SECNO 1711.500  
 1711.50 11.67 59.97 .00 .00 60.00 .02 .01 .00 55.30  
 1800. 165. 715. 920. 210. 457. 1067. 11652. 4951. 54.60  
 36.68 .78 1.56 .86 .050 .060 .050 .000 48.30 1010.12  
 .000225 60. 60. 60. 0 0 0 .00 537.93 1548.05

CCHV= .100 CEHV= .300

\*SECNO 1711.300  
 1711.30 11.21 60.61 .00 .00 60.62 .01 .62 .00 57.80  
 1800. 653. 515. 632. 984. 404. 829. 11786. 5002. 57.30  
 37.64 .66 1.28 .76 .050 .060 .050 .000 49.40 3179.22  
 .000189 1440. 3000. 3860. 1 0 0 .00 1023.67 4202.89

0  
 1

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

CCHV= .300 CEHV= .500

\*SECNO 1711.200

1711.20	11.22	60.62	.00	.00	60.64	.01	.02	.00	53.50
1800.	715.	397.	687.	1070.	274.	902.	11791.	5004.	52.70
37.67	.67	1.45	.76	.050	.060	.050	.000	49.40	3175.33
.000172	100.	100.	100.	0	0	0	.00	1031.83	4207.16

0

SPECIAL BRIDGE

SB	XK	XKOR	COFR	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	3.00	.00	16.80	1.20	152.00	1.00	50.00	50.00

\*SECNO 1711.100

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
64.02	60.64	.00	1519.	270.	152.	152.	56.80	58.10

1711.10	11.29	60.69	.00	.00	60.70	.01	.06	.00	53.50
1800.	723.	387.	690.	1109.	276.	933.	11792.	5005.	52.70
37.68	.65	1.40	.74	.050	.060	.050	.000	49.40	3166.82
.000160	18.	18.	18.	1	0	6	.00	1049.71	4216.53

0

\*SECNO 1711.000

1711.00	11.30	60.70	.00	.00	60.71	.01	.01	.00	57.80
1800.	667.	496.	638.	1043.	409.	874.	11796.	5007.	57.30
37.71	.64	1.21	.73	.050	.060	.050	.000	49.40	3165.97
.000168	85.	85.	85.	0	0	0	.00	1051.65	4217.62

0

CCHV= .100 CEHV= .300

\*SECNO 1710.300

1710.30	9.85	61.25	.00	.00	61.25	.01	.54	.00	57.90
1500.	506.	396.	599.	776.	406.	1252.	11995.	5095.	58.10
39.25	.65	.97	.48	.050	.060	.050	.000	51.40	2499.00
.000123	4500.	4000.	2780.	2	0	0	.00	1141.73	3640.74

0

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

CCHV= .300 CEHV= .500

\*SECNO 1710.200

1710.20	9.86	61.26	.00	.00	61.26	.01	.01	.00	57.90
1500.	505.	393.	601.	780.	407.	1264.	12001.	5098.	58.10
39.30	.65	.97	.48	.050	.060	.050	.000	51.40	2498.89
.000121	100.	100.	100.	0	0	0	.00	1143.18	3642.07

0



SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	3.00	.00	26.60	3.80	220.00	1.80	52.00	52.00

\*SECNO 1710.100  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
62.38	61.27	.00	1032.	468.	220.	220.	58.40	59.90

1710.10	9.96	61.36	.00	.00	61.37	.01	.10	.00	57.90
1500.	503.	377.	621.	811.	413.	1350.	12003.	5098.	58.10
39.31	.62	.91	.46	.050	.060	.050	.000	51.40	2498.09
.000105	26.	26.	26.	0	0	7	.00	1153.75	3651.84

0

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	
1710.00	9.97	61.37	.00	.00	61.37	.01	.01	.00	57.90
1500.	503.	377.	621.	811.	413.	1350.	12006.	5100.	58.10
39.33	.62	.91	.46	.050	.060	.050	.000	51.40	2498.09
.000105	60.	60.	60.	0	0	0	.00	1153.76	3651.86

0

CCHV= .100 CEHV= .300

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	
1709.80	10.51	61.61	.00	.00	61.63	.02	.26	.00	57.50
1500.	543.	736.	222.	697.	481.	485.	12084.	5137.	56.50
39.75	.78	1.53	.46	.050	.060	.050	.000	51.10	1018.41
.000254	1860.	1650.	1350.	2	0	0	.00	957.56	1975.97

0

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SECNO	DEPTH	CWSEL	CRIMS	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

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	
1709.70	10.53	61.63	.00	.00	61.66	.03	.02	.00	58.00
1500.	576.	612.	311.	627.	321.	517.	12086.	5138.	58.00
39.76	.92	1.91	.60	.050	.060	.050	.000	51.10	1018.25
.000414	60.	60.	60.	0	0	0	.00	961.43	1979.68

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	2.80	.00	15.50	2.30	143.00	1.16	51.00	51.00

\*SECNO 1709.600  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
64.29	61.66	.00	1276.	224.	143.	146.	57.90	59.70

1709.60	10.56	61.66	.00	.00	61.69	.03	.03	.00	58.00
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39.77 .91 1.86 .59 .050 .060 .050 .000 51.10 1017.73  
 .000393 22. 22. 22. 2 0 7 .00 974.54 1992.27

0

\*SECNO 1709.500

1709.50 10.58 61.68 .00 .00 61.71 .03 .02 .00 58.00  
 1500. 582. 594. 324. 648. 324. 553. 12089. 5140. 58.00  
 39.78 .90 1.83 .59 .050 .060 .050 .000 51.10 1017.39  
 .000380 60. 60. 60. 0 0 0 .00 983.24 2000.63

0

CCHV= .100 CEHV= .300  
 \*SECNO 1709.300

3265 DIVIDED FLOW

1709.30 10.17 61.97 .00 .00 61.98 .01 .27 .00 58.90  
 1500. 666. 357. 476. 1150. 359. 868. 12149. 5183. 58.60  
 40.33 .58 1.00 .55 .050 .060 .050 .000 51.80 3073.93  
 .000126 860. 1400. 1960. 2 0 0 .00 1486.53 4728.14

0

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	BCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VR0B	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENBST

CCHV= .300 CEHV= .500  
 \*SECNO 1709.200

3265 DIVIDED FLOW

1709.20 10.19 61.99 .00 .00 62.00 .01 .02 .00 54.80  
 1500. 727. 275. 499. 1244. 249. 922. 12157. 5187. 55.80  
 40.38 .58 1.10 .54 .050 .060 .050 .000 51.80 3073.91  
 .000117 130. 130. 130. 1 0 0 .00 1521.24 4749.55

0

SPECIAL BRIDGE

SB	YK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	18.30	1.30	212.00	.65	52.00	52.00

\*SECNO 1709.100

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	BWEIR	BPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
63.20	62.00	.00	851.	651.	212.	211.	61.20	62.50

1709.10 10.41 62.21 .00 .00 62.22 .01 .22 .00 54.80  
 1500. 733. 249. 518. 1402. 256. 1125. 12158. 5188. 55.80  
 40.40 .52 .97 .46 .050 .060 .050 .000 51.80 3073.71  
 .000088 27. 27. 27. 0 0 4 .00 1814.82 4930.63

0

\*SECNO 1709.000

1709.00 10.42 62.22 .00 .00 62.22 .01 .01 .00 58.90  
 1500. 677. 322. 501. 1306. 371. 1092. 12163. 5191. 58.60

.000092 80. 80. 80. 0 0 0 .00 1714.49 4932.75

0  
CCHV= .100 CEHV= .300  
\*SECNO 1708.000

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

1708.00	10.69	62.49	.00	.00	62.50	.01	.27	.00	66.10
1500.	140.	861.	499.	386.	706.	1443.	12342.	5307.	58.00
41.41	.36	1.22	.35	.050	.040	.050	.000	51.80	2717.58
.000092	3190.	3040.	2740.	0	0	0	.00	1781.12	4531.07

0  
\*SECNO 1707.500

3265 DIVIDED FLOW

1707.50	10.11	62.61	.00	.00	62.62	.01	.11	.00	66.50
1500.	12.	593.	895.	72.	719.	2852.	12475.	5383.	59.70
42.40	.16	.83	.31	.050	.040	.050	.000	52.50	4676.09
.000044	1300.	1780.	1950.	2	0	0	.00	1758.15	6472.58

0  
\*SECNO 1707.000

1707.00	9.75	62.85	.00	.00	62.90	.05	.27	.01	65.50
1200.	0.	1200.	0.	0.	649.	0.	12636.	5451.	65.50
42.93	.00	1.85	.00	.050	.040	.050	.000	53.10	2474.20
.000227	3550.	3650.	3100.	0	0	0	.00	105.70	2579.89

0  
\*SECNO 1706.800

3495 OVBANK AREA ASSUMED NON-EFFECTIVE,ELLE= 66.40 ELREA= 66.40

1706.80	9.78	62.88	.00	.00	62.93	.05	.03	.00	65.50
1200.	0.	1200.	0.	0.	652.	0.	12638.	5451.	65.50
42.94	.00	1.84	.00	.050	.040	.050	.000	53.10	2474.09
.000224	150.	130.	100.	1	0	0	.00	105.91	2580.00

0  
SPECIAL BRIDGE

5070,VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

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

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	40.00	2.00	712.00	3.00	53.10	53.10

\*SECNO 1706.700  
CLASS A LOW FLOW

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

CCHV= .100 CEHV= .300  
\*SECNO 1730.000

330: HV CHANGED MORE THAN HVINS

1730.00	13.98	47.38	.00	.00	47.96	.58	.40	.17	47.80
3370.	0.	3370.	0.	0.	552.	0.	11619.	4643.	48.80
23.14	.00	6.11	.00	.050	.035	.070	.000	33.40	2081.55
.003675	1310.	1310.	3700.	2	0	0	.00	145.77	2227.32

\*SECNO 1729.400

1729.40	16.49	49.49	.00	.00	49.62	.14	1.52	.04	46.50
3370.	397.	2083.	890.	711.	553.	1552.	11773.	4802.	46.20
23.32	.56	3.76	.57	.050	.035	.070	.000	33.00	1297.14
.000445	720.	720.	7800.	4	0	0	.00	2632.93	3930.07

CCHV= .300 CEHV= .500  
\*SECNO 1729.300

1729.30	16.63	49.63	.00	.00	49.70	.07	.06	.02	46.50
3370.	374.	1732.	1264.	679.	586.	1596.	11780.	4807.	46.20
23.33	.55	2.95	.79	.070	.060	.070	.000	33.00	1411.17
.000751	100.	100.	100.	2	0	0	.00	2334.99	3746.16

SPECIAL BRIDGE

SB	YK	YKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.90	.00	11.70	2.30	300.00	1.25	33.50	33.50

\*SECNO 1729.200  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
52.68	49.70	.00	2798.	586.	300.	301.	45.70	47.60

1729.20	16.65	49.65	.00	.00	49.72	.07	.02	.00	46.50
3370.	381.	1715.	1275.	695.	588.	1627.	11781.	4809.	46.20
23.34	.55	2.92	.78	.070	.060	.070	.000	33.00	1401.27
.000731	23.	23.	23.	2	0	7	.00	2365.43	3766.71

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

\*SECNO 1729.100

3370.	409.	1623.	1338.	731.	565.	1670.	11786.	4812.	46.20
23.35	.56	2.97	.80	.070	.060	.070	.000	33.00	1280.47
.000741	60.	60.	60.	0	0	0	.00	2376.13	3756.61

0  
CCHV= .100 CEHV= .300

\*SECNO 1728.300

1728.30	16.51	50.31	.00	.00	50.33	.02	.56	.00	42.80
3370.	1543.	1126.	701.	2447.	702.	1030.	11943.	4895.	42.40
23.90	.53	1.60	.68	.070	.060	.070	.000	33.80	1286.75
.000157	1900.	1880.	1950.	3	0	0	.00	1393.27	2680.03

0  
CCHV= .300 CEHV= .500

\*SECNO 1728.200

1728.20	16.53	50.33	.00	.00	50.35	.02	.02	.00	43.50
3240.	1531.	979.	730.	2453.	628.	1059.	11952.	4898.	43.00
23.93	.52	1.56	.69	.070	.060	.070	.000	33.80	1282.05
.000157	100.	100.	100.	2	0	0	.00	1398.89	2680.34

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	3.00	.00	16.20	3.80	346.00	1.50	34.50	34.50	

\*SECNO 1728.100  
PRESSURE AND WEIR FLOW

ESPRS	EGLWC	H3	BWEIR	BPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
52.45	50.35	.00	2577.	666.	346.	346.	46.10	47.60

1728.10	16.61	50.41	.00	.00	50.42	.02	.07	.00	43.50
3240.	1547.	962.	732.	2539.	632.	1085.	11954.	4899.	43.00
23.93	.51	1.52	.67	.070	.060	.070	.000	33.80	1260.33
.000148	24.	24.	24.	1	0	7	.00	1424.83	2685.16

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SECNO	DEPTH	CWSEL	CRWS	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	CDRAR	TOPWID	ENDST

\*SECNO 1728.000

1728.00	16.61	50.41	.00	.00	50.43	.02	.01	.00	42.80
3240.	1504.	1059.	677.	2553.	708.	1063.	11961.	4901.	42.40
23.95	.59	1.50	.64	.070	.060	.070	.000	33.80	1259.70
.000135	65.	65.	65.	0	0	0	.00	1425.59	2685.29

0  
CCHV= .100 CEHV= .300

\*SECNO 1727.000

1727.00	15.92	50.62	.00	.00	50.63	.01	.20	.00	45.20
3240.	972.	956.	1312.	1588.	702.	2468.	12124.	4955.	43.60
24.50	.61	1.36	.53	.070	.060	.070	.000	34.70	2925.07
.000121	1550.	1550.	1600.	1	0	0	.00	1566.49	4491.56

0  
\*SECNO 1726.800

1726.80	15.12	50.82	.00	.00	50.86	.04	.22	.01	45.90
3240.	1046.	1624.	569.	1526.	740.	1023.	12231.	5000.	47.00
24.72	.69	2.19	.56	.070	.060	.070	.000	35.70	714.74

0

CCHV= .300 CEHV= .500

\*SECNO 1726.700

1726.70	15.15	50.85	.00	.00	50.99	.04	.03	.00	42.90
3240.	1084.	1561.	595.	1586.	676.	1069.	12238.	5004.	43.90
24.74	.68	2.31	.56	.070	.060	.070	.000	35.70	706.99
.000312	100.	100.	100.	0	0	0	.00	1854.97	2561.86

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BMC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.90	.00	25.50	2.00	370.00	1.50	35.70	35.70	

\*SECNO 1726.600

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
52.70	50.89	.00	2572.	568.	370.	370.	45.60	46.80

1

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

1726.60	15.18	50.88	.00	.00	50.92	.04	.04	.00	42.90
3240.	1096.	1537.	607.	1630.	678.	1109.	12240.	5005.	43.80
24.75	.67	2.27	.55	.070	.060	.070	.000	35.70	690.75
.000299	18.	18.	18.	2	0	6	.00	1891.86	2582.61

0

\*SECNO 1726.500

1726.50	15.20	50.90	.00	.00	50.94	.04	.02	.00	45.90
3240.	1069.	1580.	591.	1606.	746.	1095.	12244.	5007.	47.00
24.76	.67	2.12	.54	.070	.060	.070	.000	35.70	685.41
.000303	50.	50.	50.	0	0	0	.00	1904.06	2589.47

0

CCHV= .100 CEHV= .300

\*SECNO 1726.300

1726.30	15.94	51.04	.00	.00	51.05	.01	.10	.00	43.00
3240.	1427.	705.	1108.	3134.	781.	2749.	12356.	5047.	44.80
25.25	.46	.90	.40	.070	.060	.070	.000	35.10	1653.96
.000054	900.	960.	1050.	2	0	0	.00	1621.70	3275.66

0

CCHV= .300 CEHV= .500

\*SECNO 1726.200

1726.20	15.94	51.04	.00	.00	51.06	.01	.01	.00	48.30
3240.	852.	1151.	1237.	1735.	791.	2147.	12368.	5050.	48.30
25.28	.49	1.46	.58	.070	.060	.070	.000	35.10	1653.95
.000162	90.	90.	90.	1	0	0	.00	1621.95	3275.90

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BMC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	3.00	.00	29.90	4.70	463.00	1.80	36.00	.00	

\*SECNO 1726.100

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
52.23	51.06	.00	2523.	716.	463.	463.	46.50	48.30

1726.10	15.99	51.09	.00	.00	51.10	.01	.04	.00	48.30
3240.	862.	1136.	1242.	1771.	794.	2180.	12371.	5051.	48.30
25.29	.49	1.43	.57	.070	.060	.070	.000	35.10	1653.90
.000156	27.	27.	27.	1	0	6	.00	1623.12	3277.03

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
B	QLOB	QCH	QROB	ALOB	ACH	AROB	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 1726.000

1726.00	16.00	51.10	.00	.00	51.11	.01	.01	.00	48.30
3240.	857.	1144.	1239.	1775.	785.	2193.	12379.	5054.	44.80
25.32	.48	1.46	.56	.070	.060	.070	.000	35.10	1653.90
.000153	75.	75.	75.	0	0	0	.00	1623.25	3277.15

CCHV= .100 CEHV= .300

\*SECNO 1725.000

1725.00	16.12	51.32	.00	.00	51.32	.01	.21	.00	45.10
3240.	2073.	947.	220.	4755.	1015.	848.	12714.	5156.	45.10
25.56	.44	.93	.26	.070	.060	.070	.000	35.20	1646.14
.000050	2700.	2480.	2350.	2	0	0	.00	1872.33	3518.47

\*SECNO 1724.600

1724.60	16.14	51.34	.00	.00	51.34	.01	.02	.00	45.10
3240.	2075.	943.	222.	4779.	1017.	863.	12779.	5174.	45.10
26.77	.43	.93	.26	.070	.060	.070	.000	35.20	1646.10
.000050	400.	500.	450.	2	0	0	.00	1881.35	3527.46

CCHV= .300 CEHV= .500

\*SECNO 1724.500

1724.50	16.14	51.34	.00	.00	51.35	.01	.01	.00	39.50
3240.	2190.	772.	278.	4950.	752.	947.	12799.	5179.	40.50
26.84	.44	1.03	.29	.070	.060	.070	.000	35.20	1635.93
.000050	150.	100.	70.	0	0	0	.00	1893.71	3529.65

SPECIAL BRIDGE

SB	YK	YKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	3.00	.00	34.30	3.00	423.00	1.20	36.00	36.00	

\*SECNO 1724.400

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
52.77	51.35	.00	2521.	718.	423.	422.	45.80	47.10

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SECNO	DEPTH	CWSEL	CRWS	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	CDRAR	TOPWID	ENDST

1724.40	16.21	51.41	.00	.00	51.41	.01	.06	.00	39.50
3240.	2194.	761.	285.	5031.	755.	999.	12802.	5180.	40.50
26.85	.44	1.01	.29	.070	.060	.070	.000	35.20	1535.19
.000048	21.	21.	21.	0	0	6	.00	1923.65	3558.84

0

\*SECNO 1724.200

1724.30	16.21	51.41	.00	.00	51.42	.01	.00	.00	45.10
3240.	2088.	934.	218.	4860.	1023.	815.	12811.	5183.	45.10
26.88	.43	.91	.27	.070	.060	.070	.000	35.20	1545.98
.000048	60.	60.	60.	0	0	0	.00	1770.58	3416.56

0

CCHV= .100 CEHV= .300

\*SECNO 1724.000

1724.00	14.88	51.48	.00	.00	51.49	.00	.07	.00	45.70
3240.	1105.	671.	1464.	3356.	976.	4381.	13137.	5263.	45.40
28.15	.32	.69	.33	.070	.060	.070	.000	36.60	4077.07
.000030	2100.	1780.	1450.	1	0	0	.00	2077.73	6154.80

0

\*SECNO 1723.600

1723.60	14.90	51.50	.00	.00	51.50	.00	.01	.00	45.70
3240.	479.	849.	1912.	1558.	977.	4466.	13206.	5281.	45.40
28.34	.31	.87	.43	.070	.060	.070	.000	36.60	4200.96
.000048	500.	250.	350.	0	0	0	.00	1954.00	6154.95

0

CCHV= .300 CEHV= .500

\*SECNO 1723.500

1723.50	14.90	51.50	.00	.00	51.50	.00	.00	.00	45.70
3240.	479.	849.	1912.	1560.	977.	4468.	13221.	5286.	45.40
28.39	.31	.87	.43	.070	.060	.070	.000	36.60	4200.25
.000048	120.	100.	80.	0	0	0	.00	1954.74	6154.99

0

SPECIAL BRIDGE

SB	XK	XKDR	COFQ	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.90	.00	42.70	6.30	447.00	2.00	37.50	37.50

\*SECNO 1723.400

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SECNO	DEPTH	CWSEL	CRWS	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	CDRAR	TOPWID	ENDST

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
52.77	51.51	.00	2519.	720.	447.	447.	45.90	47.10

1723.40	14.96	51.56	.00	.00	51.56	.00	.06	.00	45.70
3240.	487.	839	1914.	1611.	983.	4536.	13226.	5287.	45.40



000046 30. 30. 30. 0 0 5 .00 1981.32 6156.25  
 0  
 \*SECNO 1723.300  
 1723.30 14.96 51.56 .00 .00 51.56 .00 .00 .00 45.70  
 3240. 487. 840. 1914. 1609. 982. 4534. 13234. 5289. 45.40  
 28.43 .30 .85 .42 .070 .060 .070 .000 36.60 4175.91  
 .000046 50. 50. 50. 0 0 0 .00 1980.29 6156.20

0  
 CCHV= .100 CEHV= .300  
 \*SECNO 1723.000  
 1723.00 14.26 51.76 .00 .00 51.79 .03 .22 .01 46.80  
 3240. 830. 1441. 970. 850. 818. 931. 13513. 5369. 47.70  
 29.95 .98 1.76 1.04 .050 .060 .050 .000 37.50 1558.12  
 .000234 2490. 2530. 2500. 2 0 0 .00 788.09 2346.21

0  
 \*SECNO 1722.800  
 1722.80 14.37 51.87 .00 .00 51.90 .03 .10 .00 46.80  
 3240. 845. 1411. 983. 886. 827. 971. 13541. 5377. 47.70  
 29.04 .95 1.71 1.01 .050 .060 .050 .000 37.50 1550.90  
 .000217 430. 480. 450. 2 0 0 .00 812.98 2363.87

0  
 CCHV= .300 CEHV= .500  
 \*SECNO 1722.700  
 1722.70 14.19 51.89 .00 .00 51.92 .03 .02 .00 46.00  
 3240. 925. 1279. 1036. 962. 745. 1052. 13547. 5379. 44.00  
 29.07 .96 1.72 .99 .050 .060 .050 .000 37.70 1549.35  
 .000194 90. 100. 110. 0 0 0 .00 818.30 2367.65

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALDB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLQBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

SPECIAL BRIDGE

SB	XK	XKDR	COFQ	RDLN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	3.00	.00	29.10	4.70	354.00	1.80	38.00	38.00

\*SECNO 1722.600  
 PRESSURE AND WEIR FLOW

ESPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
						AREA		
	53.92	51.92	.00	2640.	595.	354.	354.	46.80 48.30
1722.60	14.23	51.93	.00	.00	51.96	.03	.04	.00 46.00
3240.	930.	1268.	1042.	976.	747.	1069.	13548.	5379. 44.00
29.07	.95	1.70	.97	.050	.060	.050	.000	37.70 1546.50
.000189	20.	20.	20.	2	0	6	.00	850.23 2396.72

0  
 \*SECNO 1722.500  
 1722.50 14.44 51.94 .00 .00 51.97 .03 .01 .00 46.80  
 3240. 856. 1391. 993. 912. 833. 1000. 13551. 5380. 47.70  
 29.08 .94 1.67 .99 .050 .060 .050 .000 37.50 1545.84  
 .000206 50. 50. 50. 0 0 0 .00 858.77 2404.62

0  
 CCHV= .100 CEHV= .300

1722.30	13.84	52.34	.00	.00	52.36	.01	.39	.00	45.90
3240.	635.	884.	1721.	918.	639.	2192.	13754.	5440.	46.60
29.91	.69	1.26	.79	.050	.060	.050	.000	38.50	1433.84
.000106	2230.	2575.	3015.	2	0	0	.00	1093.05	2526.99

0  
CCHV= .300 CEHV= .500

\*SECNO 1722.200

1722.20	13.86	52.36	.00	.00	52.37	.01	.01	.00	47.20
3240.	514.	1006.	1720.	794.	827.	2153.	13763.	5443.	47.00
29.94	.65	1.22	.80	.050	.060	.050	.000	38.50	1431.11
.000112	90.	100.	110.	0	0	0	.00	1096.09	2527.20

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SECNO	DEPTH	CWSEL	CRWS	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	CCRAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	YK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.70	.00	26.70	6.30	545.00	3.00	39.00	39.00	

\*SECNO 1722.100  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
53.21	52.37	.00	2176.	1068.	545.	545.	49.50	50.90

1722.10	13.94	52.44	.00	.00	52.45	.01	.08	.00	47.20
3240.	523.	989.	1728.	825.	834.	2206.	13766.	5444.	47.00
29.95	.63	1.19	.78	.050	.060	.050	.000	38.50	1416.87
.000106	31.	31.	31.	1	0	7	.00	1111.98	2528.85

0  
\*SECNO 1722.000

1722.00	13.94	52.44	.00	.00	52.46	.01	.01	.00	45.90
3240.	644.	865.	1731.	957.	705.	2256.	13772.	5446.	46.60
29.98	.67	1.23	.77	.050	.060	.050	.000	38.50	1416.65
.000099	70.	70.	70.	0	0	0	.00	1112.22	2528.87

0  
CCHV= .100 CEHV= .300

\*SECNO 1721.500

1721.50	13.93	52.53	.00	.00	52.53	.00	.07	.00	46.60
3240.	1093.	524.	1623.	2852.	758.	3848.	13955.	5503.	46.80
30.83	.38	.69	.42	.050	.060	.050	.000	38.60	6500.00
.000033	1700.	1450.	1200.	2	0	0	.00	2387.60	8887.60

0  
\*SECNO 1721.300

1721.30	13.80	52.60	.00	.00	52.61	.01	.07	.00	45.50
3240.	996.	861.	1383.	1397.	667.	2385.	14126.	5570.	47.00
31.27	.71	1.29	.58	.050	.060	.050	.000	38.80	2631.82
.000122	1850.	1450.	800.	2	0	0	.00	2238.86	4870.68

0  
CCHV= .300 CEHV= .500

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

\*SECNO 1721.200

1721.20	13.81	52.61	.00	.00	52.62	.01	.01	.00	43.50
3240.	1095.	640.	1505.	1477.	478.	2527.	14136.	5575.	47.00
31.30	.74	1.34	.60	.050	.060	.050	.000	38.80	2631.67
.000123	110.	100.	90.	0	0	0	.00	2283.15	4914.82

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	3.00	.00	19.60	2.00	254.00	1.00	39.50	39.50	

\*SECNO 1721.100

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
56.55	52.62	.00	2728.	512.	254.	254.	48.90	50.40

1721.10	13.90	52.70	.00	.00	52.71	.01	.09	.00	43.50
3240.	1099.	616.	1525.	1560.	483.	2679.	14139.	5576.	47.00
31.31	.70	1.28	.57	.050	.060	.050	.000	38.80	2629.69
.000111	25.	25.	25.	0	0	7	.00	2336.16	4965.85

0

\*SECNO 1721.000

1721.00	13.91	52.71	.00	.00	52.72	.01	.01	.00	45.50
3240.	1004.	831.	1404.	1825.	824.	3110.	14152.	5583.	47.00
31.36	.55	1.01	.45	.050	.060	.050	.000	38.80	2630.43
.000072	120.	110.	100.	0	0	0	.00	2802.65	5433.09

0

CCHV= .100 CEHV= .300

\*SECNO 1718.000

1718.00	13.85	53.35	.00	.00	53.52	.17	.76	.05	49.50
3100.	216.	2876.	8.	162.	838.	36.	14502.	5753.	53.10
31.74	1.34	3.43	.22	.050	.050	.050	.000	39.50	4095.98
.000845	3540.	4550.	5060.	2	0	0	.00	470.73	4566.70

0

\*SECNO 1717.000

1717.00	14.30	54.20	.00	.00	54.22	.01	.68	.02	52.20
3100.	519.	1125.	1456.	1272.	776.	3134.	14667.	5902.	51.30
32.52	.41	1.45	.46	.050	.050	.050	.000	39.90	2735.36
.000150	2400.	2270.	2300.	2	0	0	.00	5078.71	7814.07

0

1

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

\*SECNO 1716.300

3265 DIVIDED FLOW

2770.	1082.	1019.	669.	1464.	531.	754.	14891.	6075.	50.30
33.09	.74	1.92	.39	.050	.050	.050	.000	40.20	1113.21
.000212	2400.	2460.	2500.	2	0	0	.00	1057.52	2242.83

0  
CCHV= .300 CEHV= .500  
\*SECNO 1716.200

3265 DIVIDED FLOW

1716.20	14.45	54.65	.00	.00	54.67	.03	.02	.00	45.00
2770.	1180.	782.	808.	1557.	358.	861.	14897.	6077.	43.30
33.11	.76	2.19	.34	.050	.050	.050	.000	40.20	1113.20
.000200	100.	100.	100.	0	0	0	.00	1066.39	2245.44

0  
SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	20.10	1.00	190.00	.50	41.00	41.00

\*SECNO 1716.100

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
59.79	54.68	.00	2178.	591.	190.	190.	49.20	50.50

1716.10	14.66	54.86	.00	.00	54.88	.02	.21	.00	45.00
2770.	1230.	727.	813.	1705.	364.	942.	14899.	6078.	43.80
33.11	.72	2.00	.86	.050	.050	.050	.000	40.20	1113.08
.000164	20.	20.	20.	2	0	5	.00	1144.12	2268.34

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

\*SECNO 1716.000

3265 DIVIDED FLOW

1716.00	14.67	54.87	.00	.00	54.89	.02	.01	.00	50.40
2770.	1147.	940.	683.	1636.	545.	847.	14904.	6080.	50.30
33.13	.70	1.73	.81	.050	.050	.050	.000	40.20	1113.07
.000166	80.	80.	80.	0	0	0	.00	1149.43	2269.90

0  
CCHV= .100 CEHV= .300  
\*SECNO 1715.800

1715.80	14.51	55.21	.00	.00	55.22	.01	.32	.00	50.40
2770.	541.	732.	1496.	1103.	694.	2758.	15181.	6177.	51.10
34.47	.49	1.06	.54	.050	.050	.050	.000	40.70	2544.16
.000067	3100.	3280.	3220.	2	0	0	.00	1518.64	4062.80

0  
CCHV= .300 CEHV= .500  
\*SECNO 1715.700

2770.	658.	440.	1672.	1246.	350.	2986.	15197.	6183.	44.40
34.53	.53	1.25	.56	.050	.050	.050	.000	40.70	2543.15
.000065	150.	150.	150.	0	0	0	.00	1522.78	4065.93

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	3.00	.00	17.30	1.30	203.00	1.00	42.00	42.00

\*SECNO 1715.600  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	
59.73	55.23	.00	2339.	430.	203.	203.	50.20	51.50	
1715.60	14.62	55.32	.00	.00	55.33	.01	.10	.00	45.00
2770.	664.	427.	1679.	1292.	353.	3092.	15199.	6183.	44.40
34.54	.51	1.21	.54	.050	.050	.050	.000	40.70	2537.53
.000059	21.	21.	21.	0	0	6	.00	1545.88	4083.41

0  
1

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SECNO	DEPTH	CWSEL	CRISW	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 1715.500

1715.50	14.62	55.32	.00	.00	55.33	.01	.00	.00	50.40
2770.	550.	712.	1508.	1154.	702.	2877.	15208.	6186.	51.10
34.57	.48	1.01	.52	.050	.050	.050	.000	40.70	2537.67
.000061	75.	75.	75.	0	0	0	.00	1545.28	4082.96

0

CCHV= .100 CEHV= .300

\*SECNO 1715.300

1715.30	12.50	55.40	.00	.00	55.41	.01	.08	.00	52.00
2770.	233.	496.	2042.	782.	577.	3869.	15374.	6243.	52.30
35.28	.30	.86	.53	.050	.050	.050	.000	42.90	4385.61
.000049	1530.	1510.	1420.	0	0	0	.00	1874.55	6260.16

0

CCHV= .300 CEHV= .500

\*SECNO 1715.200

1715.20	12.51	55.41	.00	.00	55.42	.01	.01	.00	46.00
2770.	295.	349.	2126.	878.	341.	4011.	15394.	6251.	44.80
35.36	.34	1.02	.53	.050	.050	.050	.000	42.90	4384.55
.000048	170.	170.	170.	0	0	0	.00	1875.74	6260.39

0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	14.30	1.00	170.00	1.00	43.50	43.50

\*SECNO 1715.100  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
-------	-------	----	-------	-----	-------	-----------	------	-------

61.84 55.42 .00 2316. 458. 170. 167. 51.40 52.80

1715.10 12.68 55.58 .00 .00 55.59 .00 .17 .00 46.00  
2770. 318. 333. 2120. 1021. 346. 4207. 15397. 6252. 44.90  
35.38 .31 .96 .50 .050 .050 .050 .000 42.90 4233.94  
.000042 25. 25. 25. 0 0 7 .00 2062.31 6296.25

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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

\*SECNO 1715.000

1715.00 12.69 55.59 .00 .00 55.59 .00 .00 .00 52.00  
2770. 257. 475. 2038. 924. 588. 4067. 15411. 6257. 52.30  
35.44 .28 .81 .50 .050 .050 .050 .000 42.90 4233.91  
.000042 110. 110. 110. 0 0 0 .00 2062.34 6296.25

0

CCHV= .100 CEHV= .300

\*SECNO 1714.000

1714.00 11.66 55.66 .00 .00 55.66 .00 .07 .00 51.00  
2770. 1569. 391. 810. 3858. 560. 1939. 15618. 6340. 51.60  
36.36 .41 .70 .42 .050 .060 .050 .000 44.00 3717.57  
.000045 1675. 1550. 1365. 0 0 0 .00 2614.40 6331.96

0

\*SECNO 1713.300

1713.30 10.35 55.95 .00 .00 55.88 .02 .21 .01 52.60  
2440. 312. 762. 1366. 591. 443. 1534. 15854. 6452. 52.10  
36.93 .53 1.72 .89 .050 .060 .050 .000 45.50 2173.46  
.000344 2370. 2320. 2220. 2 0 0 .00 1619.13 3792.59

0

CCHV= .300 CEHV= .500

\*SECNO 1713.200

1713.20 8.92 55.92 .00 .00 55.94 .02 .06 .00 54.60  
2440. 417. 313. 1710. 653. 231. 1655. 15863. 6458. 54.60  
36.98 .64 1.36 1.03 .050 .060 .050 .000 47.00 2169.12  
.000445 150. 150. 150. 2 0 0 .00 1635.29 3804.42

0

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 53.40 ,NOT 55.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB XK XKOR COFQ ROLEN BWC BWP BAREA SS ELCHU ELCHD  
1.10 1.80 2.60 .00 30.70 4.00 156.00 .20 49.00 49.00

\*SECNO 1713.100

PRESSURE AND WEIR FLOW

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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

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
62.76	57.53	.00	1392.	1062.	156.	156.	54.60	56.70

1713.10	10.21	57.21	.00	.00	57.21	.00	1.28	.00	54.60
2440.	677.	175.	1588.	1589.	283.	3013.	15866.	6460.	54.60
37.00	.43	.62	.53	.050	.060	.050	.000	47.00	2083.33
.000071	38.	38.	38.	0	0	5	.00	2151.94	4235.27

\*SECNO 1713.000

1713.00	11.72	57.22	.00	.00	57.23	.01	.01	.00	52.60
2440.	1056.	721.	663.	1569.	521.	1523.	15876.	6465.	52.10
37.03	.67	1.38	.44	.050	.060	.050	.000	45.50	2082.53
.000179	100.	100.	100.	1	0	0	.00	2378.08	4460.61

CCHV= .100 CEHV= .300

\*SECNO 1712.800

1712.80	10.49	57.59	.00	.00	57.60	.01	.37	.00	53.30
2440.	544.	467.	1430.	911.	414.	2925.	16069.	6598.	53.60
37.99	.60	1.13	.49	.050	.060	.050	.000	47.10	563.74
.000157	2240.	2470.	2020.	2	0	0	.00	3185.96	3749.71

CCHV= .300 CEHV= .500

\*SECNO 1712.700

1712.70	10.51	57.61	.00	.00	57.62	.01	.02	.00	52.50
2440.	629.	477.	1334.	955.	395.	2769.	16079.	6605.	55.30
38.03	.66	1.21	.48	.050	.060	.050	.000	47.10	556.91
.000181	100.	100.	100.	0	0	0	.00	3211.57	3768.49

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.70	.00	21.10	3.00	239.00	2.00	48.00	48.00	

\*SECNO 1712.600

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

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
60.13	57.62	.00	1517.	904.	239.	239.	55.30	56.50

1712.60	10.85	57.95	.00	.00	57.95	.00	.34	.00	52.50
2440.	613.	385.	1442.	1222.	414.	3685.	16082.	6608.	55.30
38.05	.50	.93	.39	.050	.060	.050	.000	47.10	418.37
.000101	30.	30.	30.	0	0	3	.00	3731.12	4149.49

\*SECNO 1712.500

1712.50	10.85	57.95	.00	.00	57.96	.00	.00	.00	53.30
2440.	542.	378.	1520.	1189.	435.	3892.	16088.	6612.	53.60
38.08	.46	.87	.39	.050	.060	.050	.000	47.10	417.35
.000087	50.	50.	50.	0	0	0	.00	3734.93	4152.28

CCHV= .100 CEHV= .300  
 \*SECNO 1712.300

3301 HV CHANGED MORE THAN HVINS

1712.30	7.86	57.46	.00	.00	59.13	1.67	.67	.50	58.10
2440.	0.	2440.	0.	0.	235.	0.	16237.	6710.	58.10
38.14	.90	10.37	.00	.050	.060	.050	.000	49.60	2244.05
.023168	1920.	2120.	2370.	3	0	0	.00	48.08	2292.13

CCHV= .300 CEHV= .500  
 \*SECNO 1712.200

3301 HV CHANGED MORE THAN HVINS

1712.20	10.19	59.79	.00	.00	59.85	.06	.24	.48	51.50
2440.	777.	773.	890.	690.	259.	738.	16239.	6712.	54.40
38.15	1.13	2.98	1.21	.050	.060	.050	.000	49.60	1708.16
.000931	100.	100.	100.	3	0	0	.00	1055.68	2763.84

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SECNO	DEPTH	CWSEL	CRINS	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	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	16.90	1.00	166.00	1.00	50.00	50.00

\*SECNO 1712.100  
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD	
	65.03	59.85	.00	1918.	545.	166.	166.	57.20	58.90

1712.10	10.41	60.01	.00	.00	60.05	.04	.20	.00	51.50
2440.	833.	687.	920.	812.	265.	846.	16240.	6712.	54.40
38.16	1.03	2.59	1.09	.050	.060	.050	.000	49.60	1677.65
.000607	22.	22.	22.	2	0	4	.00	1112.76	2790.41

\*SECNO 1712.000

1712.00	10.45	60.05	.00	.00	60.09	.04	.03	.00	58.10
2440.	755.	800.	885.	775.	366.	822.	16242.	6713.	58.10
38.17	.98	2.19	1.08	.050	.060	.050	.000	49.60	1672.61
.000619	50.	50.	50.	0	0	0	.00	1122.19	2794.80

CCHV= .100 CEHV= .300  
 \*SECNO 1711.800

1711.80	12.03	60.33	.00	.00	60.36	.03	.27	.00	55.30
2440.	234.	890.	1316.	243.	475.	1214.	16269.	6726.	54.60
38.30	.96	1.87	1.08	.050	.060	.050	.000	48.30	1003.31
.000306	1450.	1000.	10.	2	0	0	.00	579.48	1582.79

CCHV= .300 CEHV= .500



2440.	391.	623.	1426.	337.	307.	1300.	16271.	6725.	50.50
38.31	1.16	2.03	1.10	.050	.060	.050	.000	48.30	1002.94
.000284	150.	100.	20.	2	0	0	.00	581.79	1584.72

0

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

SPECIAL BRIDGE

SB	XK	XKOR	COFB	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.90	.00	12.30	1.00	156.00	1.50	48.00	48.00

\*SECNO 1711.600  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
66.27	60.38	.00	2090.	350.	156.	156.	55.10	56.40

1711.60	12.14	60.44	.00	.00	60.47	.03	.09	.00	51.30
2440.	391.	609.	1441.	347.	309.	1342.	16272.	6727.	50.50
38.32	1.13	1.97	1.07	.050	.060	.050	.000	48.30	1001.14
.000263	20.	20.	20.	2	0	7	.00	592.93	1594.07

0

\*SECNO 1711.500

1711.50	12.16	60.46	.00	.00	60.49	.03	.02	.00	55.30
2440.	237.	864.	1339.	256.	482.	1270.	16275.	6728.	54.60
38.33	.93	1.79	1.05	.050	.060	.050	.000	48.30	1000.82
.000276	60.	60.	60.	0	0	0	.00	594.89	1595.71

0

CCHV= .100 CEHV= .300

\*SECNO 1711.300

1711.30	11.75	61.15	.00	.00	61.16	.01	.68	.00	57.80
2440.	977.	575.	888.	1298.	433.	1082.	16436.	6784.	57.30
39.24	.75	1.33	.82	.050	.060	.050	.000	49.40	3157.03
.000187	1440.	3000.	3860.	2	0	0	.00	1122.91	4279.93

0

CCHV= .300 CEHV= .500

\*SECNO 1711.200

1711.20	11.77	61.17	.00	.00	61.18	.01	.02	.00	53.50
2440.	1050.	437.	953.	1388.	290.	1161.	16443.	6787.	52.70
39.27	.76	1.51	.82	.050	.060	.050	.000	49.40	3156.56
.000174	100.	100.	100.	0	0	0	.00	1126.61	4283.17

0

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

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	3.00	.00	16.80	1.20	152.00	1.00	50.00	50.00

\*SECNO 1711.100

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
67.41	61.19	.00	2128.	299.	152.	152.	56.80	58.10

1711.10	11.85	61.25	.00	.00	61.26	.01	.08	.00	53.50
2440.	1060.	425.	956.	1436.	292.	1203.	16444.	6787.	52.70
39.28	.74	1.46	.79	.050	.060	.050	.000	49.40	3154.92
.000160	18.	18.	18.	1	0	6	.00	1139.64	4294.56

0

\*SECNO 1711.000

1711.00	11.86	61.26	.00	.00	61.27	.01	.01	.00	57.80
2440.	992.	554.	893.	1362.	439.	1139.	16450.	6789.	57.30
39.31	.73	1.26	.78	.050	.060	.050	.000	49.40	3154.77
.000166	85.	85.	85.	0	0	0	.00	1140.84	4295.62

0

CCHV= .100 CEHV= .300

\*SECNO 1710.300

1710.30	10.39	61.79	.00	.00	61.79	.01	.52	.00	57.90
2030.	665.	439.	926.	932.	438.	1695.	16699.	6882.	58.10
40.77	.71	1.00	.55	.050	.060	.050	.000	51.40	2495.00
.000117	4500.	4000.	2780.	2	0	0	.00	1194.78	3689.78

0

CCHV= .300 CEHV= .500

\*SECNO 1710.200

1710.20	10.40	61.80	.00	.00	61.81	.01	.01	.00	57.90
2030.	665.	436.	929.	936.	439.	1708.	16706.	6885.	58.10
40.81	.71	1.00	.54	.050	.060	.050	.000	51.40	2494.89
.000116	100.	100.	100.	0	0	0	.00	1196.19	3691.08

0

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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	3.00	.00	26.60	3.80	220.00	1.80	52.00	52.00

\*SECNO 1710.100

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
63.86	61.81	.00	1518.	520.	220.	220.	58.40	59.90

1710.10	10.53	61.93	.00	.00	61.93	.01	.13	.00	57.90
2030	660	418	952	975	446	1821	16708	6886	58.10

0  
 .000100 25. 25. 26. 0 0 7 .00 1209.26 3703.16  
 \*SECNO 1710.000  
 1710.00 10.53 61.93 .00 .00 61.94 .01 .01 .00 57.90  
 2030. 660. 418. 952. 975. 446. 1820. 16712. 6888. 58.10  
 40.85 .68 .94 .52 .050 .060 .050 .000 51.40 2493.91  
 .000100 60. 60. 60. 0 0 0 .00 1209.19 3703.10

0  
 CCHV= .100 CEHV= .300  
 \*SECNO 1709.800  
 1709.80 11.06 62.16 .00 .00 62.18 .02 .24 .00 57.50  
 2030. 784. 804. 442. 882. 513. 850. 16812. 6928. 56.50  
 41.25 .89 1.57 .52 .050 .060 .050 .000 51.10 1010.53  
 .090243 1860. 1650. 1350. 2 0 0 .00 1155.73 2166.26

0  
 CCHV= .300 CEHV= .500  
 \*SECNO 1709.700  
 1709.70 11.08 62.18 .00 .00 62.20 .02 .02 .00 58.00  
 2030. 821. 635. 574. 815. 344. 891. 16815. 6930. 58.00  
 41.23 1.01 1.85 .64 .050 .060 .050 .000 51.10 1010.38  
 .000355 60. 60. 60. 0 0 0 .00 1159.43 2169.81

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

SPECIAL BRIDGE

SB	YK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	2.80	.00	15.50	2.30	143.00	1.16	51.00	51.00

\*SECNO 1709.600  
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	BPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	
67.06	62.21	.00	1793.	238.	143.	146.	57.90	59.70	
1709.60	11.12	62.22	.00	.00	62.25	.02 .04	.00	58.00	
2030.	822.	621.	587.	832.	346.	929.	16816.	6931.	58.00
41.28	.99	1.80	.63	.050	.060	.050	.000	51.10	1009.68
.000333	22.	22.	22.	2	0	6	.00	1176.97	2186.65

0  
 \*SECNO 1709.500  
 1709.50 11.14 62.24 .00 .00 62.27 .02 .02 .00 58.00  
 2030. 823. 615. 592. 839. 347. 946. 16819. 6932. 58.00  
 41.30 .98 1.77 .63 .050 .060 .050 .000 51.10 1009.39  
 .000324 60. 60. 60. 0 0 0 .00 1184.38 2193.77

0  
 CCHV= .100 CEHV= .300  
 \*SECNO 1709.300  
 1709.30 10.70 62.50 .00 .00 62.51 .01 .24 .00 58.90  
 2030. 928. 386. 716. 1548. 386. 1410. 16907. 6991. 58.60  
 41.88 .60 1.00 .51 .050 .060 .050 .000 51.80 3073.45  
 .000115 860. 1400. 1960. 2 0 0 .00 2092.53 5165.98

\*SECNO 1709.200

1709.20	10.72	62.52	.00	.00	62.53	.01	.01	.00	54.80
2030.	996.	292.	742.	1651.	265.	1475.	16917.	6997.	55.80
41.94	.60	1.10	.50	.050	.060	.050	.000	51.30	3073.43
.000109	130.	130.	130.	1	0	0	.00	2111.13	5184.56

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

SPECIAL BRIDGE

SB	XK	XKDR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.60	.00	18.30	1.30	212.00	.65	52.00	52.00	

\*SECNO 1709.100

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	BWEIR	BPR	BAREA	TRAPEZOID	ELLC	ELTRD
64.74	62.53	.00	1532.	498.	212.	AREA 211.	61.20	62.50

1709.10	10.85	62.65	.00	.00	62.65	.01	.13	.00	54.80
2030.	995.	276.	759.	1755.	268.	1642.	16919.	6998.	55.80
41.95	.57	1.03	.46	.050	.060	.050	.000	51.80	3073.32
.000092	27.	27.	27.	0	0	4	.00	2215.70	5299.02

\*SECNO 1709.000

1709.00	10.85	62.65	.00	.00	62.66	.01	.01	.00	58.90
2030.	923.	364.	743.	1598.	394.	1607.	16926.	7002.	58.60
41.99	.58	.93	.46	.050	.060	.050	.000	51.80	3200.49
.000096	80.	80.	80.	0	0	0	.00	2090.28	5290.77

CCHV= .100 CEHV= .300

\*SECNO 1708.000

3265 DIVIDED FLOW

1708.00	11.14	62.94	.00	.00	62.95	.01	.29	.00	66.10
2030.	226.	982.	821.	526.	756.	2130.	17161.	7141.	58.00
42.98	.43	1.30	.39	.050	.040	.050	.000	51.80	2691.78
.000097	3190.	3040.	2740.	0	0	0	.00	2132.54	4847.70

\*SECNO 1707.500

3265 DIVIDED FLOW

1707.50	10.57	63.07	.00	.00	63.07	.01	.12	.00	66.50
2030.	26.	703.	1301.	127.	772.	3601.	17330.	7230.	59.70
43.91	.21	.91	.36	.050	.040	.050	.000	52.50	4591.04
.000049	1300.	1780.	1950.	2	0	0	.00	2021.55	6646.42

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Z	QLOB	QCH	QROB	ALOB	ACH	AROB	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 1707.000

3255 DIVIDED FLOW

1707.00	10.24	53.34	.00	.00	63.41	.07	.32	.02	65.50
1620.	0.	1567.	53.	0.	701.	232.	17534.	7309.	65.50
44.35	.00	2.23	.23	.050	.040	.050	.000	53.10	2472.33
.000313	3550.	3650.	3100.	1	0	0	.00	975.52	3950.22

0

\*SECNO 1706.800

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 66.40 ELREA= 66.40

1706.80	10.27	63.37	.00	.00	63.46	.08	.04	.00	65.50
1620.	0.	1620.	0.	0.	705.	0.	17536.	7340.	65.50
44.37	.00	2.30	.00	.050	.040	.050	.000	53.10	2472.19
.000329	150.	130.	100.	1	0	0	.00	109.70	2581.89

0

SPECIAL BRIDGE

5070,VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.60	.00	40.00	2.00	712.00	3.00	53.10	53.10	

\*SECNO 1706.700

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
63.50	63.46	.00	0.	1620.	712.	710.	63.40	66.40

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA= 66.40 ELREA= 66.40

1706.70	10.32	63.42	.00	.00	63.50	.08	.04	.00	65.50
1620.	0.	1620.	0.	0.	711.	0.	17539.	7340.	65.50
44.39	.00	2.28	.00	.000	.040	.000	.000	53.10	2471.99
.000322	200.	200.	200.	2	0	0	.00	110.10	2582.08

0

1

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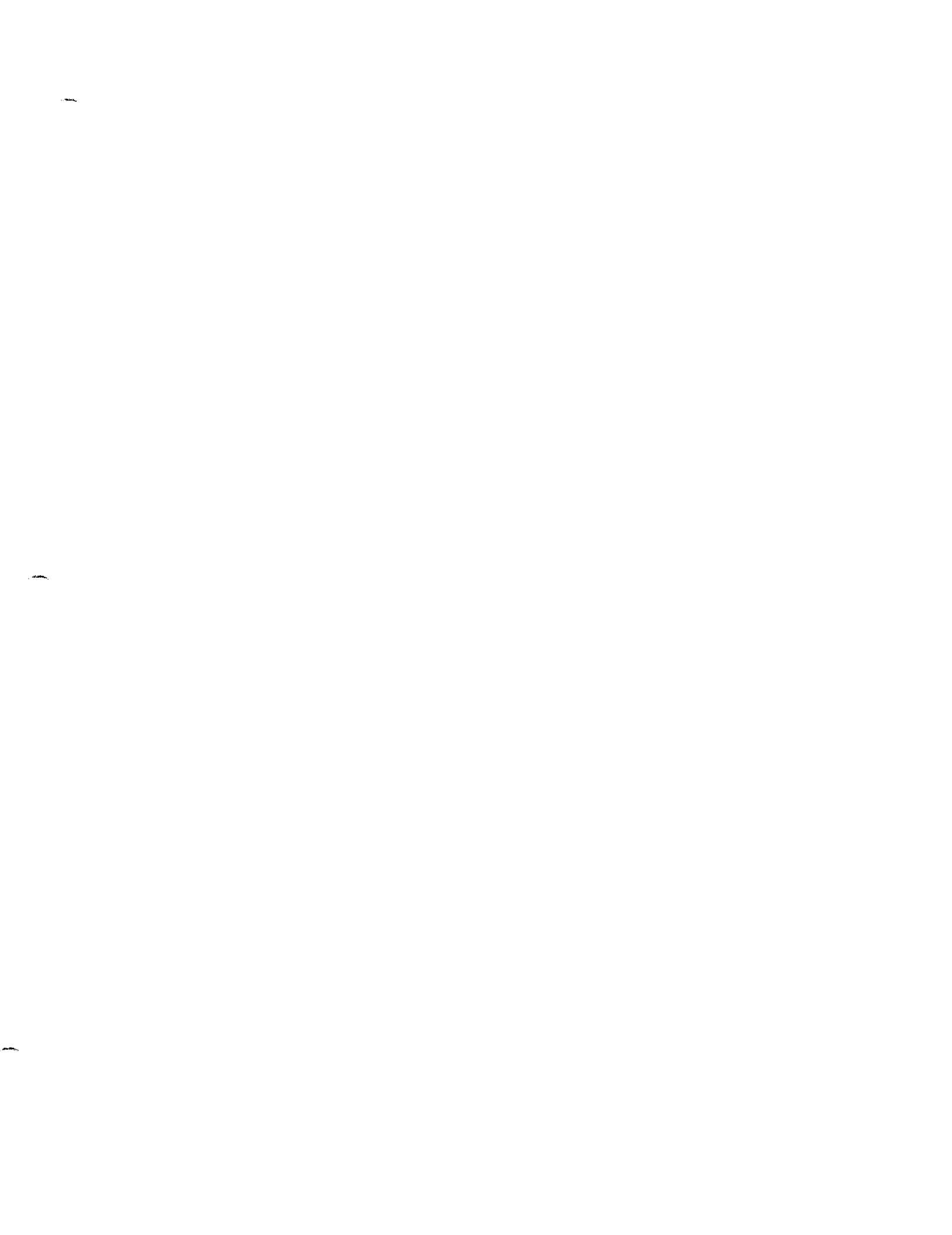
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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 1706.500

3265 DIVIDED FLOW

1706.50	10.72	64.32	.00	.00	64.37	.05	.87	.00	62.80
1620.	482.	1050.	88.	970.	465.	226.	17620.	7400.	62.90
44.89	.50	2.26	.39	.050	.040	.050	.000	53.60	3294.41
.000270	3000.	2950.	2900.	2	0	0	.00	1643.71	5114.35



CCHV= .300 CEHV= .300  
 \*SECNO 1706.400

3265 DIVIDED FLOW

1706.40	10.74	64.34	.00	.00	64.40	.06	.03	.00	56.80
1620.	528.	919.	173.	1049.	356.	305.	17624.	7404.	56.70
44.91	.50	2.58	.57	.050	.040	.050	.000	53.60	3283.94
.000244	100.	100.	100.	0	0	0	.00	1663.77	5120.98

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	25.60	1.80	264.00	1.00	54.00	54.00

\*SECNO 1706.300

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
65.25	64.41	.00	568.	1056.	264.	270.	62.40	63.60

1706.30	11.10	64.70	.00	.00	64.73	.03	.33	.00	56.80
1620.	664.	759.	197.	1523.	369.	437.	17625.	7405.	56.70
44.91	.44	2.06	.45	.050	.040	.050	.000	53.60	3161.13
.000148	20.	20.	20.	2	0	3	.00	1899.17	5198.80

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SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLOSS	BANK ELEV
B	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

\*SECNO 1706.200

3265 DIVIDED FLOW

1706.20	11.12	64.72	.00	.00	64.75	.03	.01	.00	62.80
1620.	642.	852.	126.	1505.	490.	369.	17630.	7409.	62.90
44.94	.43	1.74	.34	.050	.040	.050	.000	53.60	3154.67
.000150	80.	100.	100.	0	0	0	.00	1911.56	5202.90

CCHV= .100 CEHV= .300  
 \*SECNO 1706.000

3265 DIVIDED FLOW

1706.00	10.76	64.96	.00	.00	64.97	.01	.22	.00	62.30
1620.	408.	885.	328.	1245.	938.	1263.	17809.	7523.	63.50
46.11	.33	.94	.26	.050	.040	.050	.000	54.20	2189.24
.000049	2370.	2900.	3050.	2	0	0	.00	1851.99	4091.25

\*SECNO 1705.700

3265 DIVIDED FLOW

1705.70	10.41	65.11	.00	.00	65.12	.01	.15	.00	65.20
1620.	639.	661.	320.	1973.	605.	841.	18032.	7644.	61.40
47.32	.32	1.09	.38	.050	.040	.050	.000	54.70	1021.34
.000059	3250.	2810.	2190.	2	0	0	.00	1891.17	4203.60

SECNO 1705.500

3255 DIVIDED FLOW

1705.50	12.09	65.19	.00	.00	65.21	.02	.09	.00	68.50
1620.	32.	736.	852.	215.	496.	1277.	18100.	7584.	62.80
47.62	.15	1.48	.67	.050	.040	.050	.000	53.10	1888.32
.000127	1000.	1100.	1200.	2	0	0	.00	1400.51	4132.47

CCHV= .300 CEHV= .500

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SECNO	DEPTH	CWSEL	CRWS	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 1705.400

1705.40	12.04	65.14	.00	.00	65.35	.22	.04	.10	69.80
1620.	0.	1620.	0.	0.	434.	0.	18108.	7698.	70.40
47.64	.00	3.74	.00	.050	.040	.050	.000	53.10	3455.93
.000761	1580.	150.	150.	2	0	0	.00	56.03	3511.95

\*SECNO 1705.300

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 65.80 MAX ELLC= 65.80

1705.30	11.58	64.68	.00	.00	65.90	1.23	.05	.50	69.80
1620.	0.	1620.	0.	0.	182.	0.	18108.	7699.	70.40
47.64	.00	8.88	.00	.050	.040	.050	.000	53.10	3456.57
.030325	20.	20.	20.	2	0	0	-219.00	54.66	3511.23

\*SECNO 1705.200

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 65.80 MAX ELLC= 65.80

1705.20	11.73	64.83	.00	.00	66.06	1.23	.15	.00	69.80
1620.	0.	1620.	0.	0.	182.	0.	18108.	7699.	70.40
47.64	.00	8.88	.00	.050	.040	.050	.000	53.10	3456.36
.030325	5.	5.	5.	2	0	0	-227.32	55.11	3511.47

\*SECNO 1705.100

3301 HV CHANGED MORE THAN HVINS

1705.10	13.16	66.26	.00	.00	66.43	.17	.05	.32	69.80
1620.	0.	1620.	0.	0.	491.	0.	18108.	7699.	70.40
47.64	.00	3.30	.00	.050	.040	.050	.000	53.10	3454.43
.000897	20.	20.	20.	2	0	0	.00	59.27	3513.70

\*SECNO 1705.000

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

3265 DIVIDED FLOW

1705.00	13.38	66.48	.00	.00	66.48	.00	.01	.05	68.60
1620.	661.	338.	621.	3565.	589.	2324.	18116.	7702.	62.80
47.73	.19	.57	.27	.050	.040	.050	.000	53.10	1401.61
.000016	100.	100.	100.	2	0	0	.00	3082.27	4518.13

0  
CCHV= .100 CEHV= .300

\*SECNO 1704.900

1704.90	11.21	66.51	.00	.00	66.52	.01	.04	.00	59.10
1350.	603.	691.	55.	3025.	641.	295.	18306.	7821.	64.70
48.44	.20	1.08	.19	.050	.040	.050	.000	55.30	828.64
.000046	1400.	1800.	1970.	2	0	0	.00	3726.21	4554.85

0  
\*SECNO 1704.700

1704.70	11.54	66.64	.00	.00	66.64	.01	.12	.00	64.90
1350.	379.	578.	393.	1128.	616.	1213.	18515.	7973.	61.90
49.76	.34	.94	.32	.050	.040	.050	.000	55.10	2377.39
.000040	2300.	3030.	3220.	2	0	0	.00	1538.12	3915.51

0  
CCHV= .300 CEHV= .500

\*SECNO 1704.600

1704.60	11.54	66.64	.00	.00	66.65	.01	.00	.00	61.70
1350.	387.	532.	430.	1158.	525.	1282.	18522.	7977.	59.50
49.81	.33	1.01	.34	.050	.040	.050	.000	55.10	2376.41
.000040	100.	100.	100.	0	0	0	.00	1540.77	3917.19

0

SPECIAL BRIDGE

SB	XK	XKDR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.80	.00	26.00	3.00	291.00	2.00	56.00	56.00

\*SECNO 1704.500

PRESSURE AND WEIR FLOW

1  
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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
67.16	66.65	.00	1042.	306.	291.	290.	63.60	64.90

1704.50	11.56	66.66	.00	.00	66.67	.01	.02	.00	61.70
1350.	389.	527.	433.	1174.	526.	1305.	18524.	7978.	59.50
49.82	.33	1.00	.33	.050	.040	.050	.000	55.10	2370.45
.000039	20.	20.	20.	0	0	6	.00	1556.95	3927.40

0

1350.	381.	573.	396.	1145.	619.	1237.	18521.	7981.	61.90
49.87	.33	.33	.32	.050	.040	.050	.000	55.10	2371.18
.000039	100.	100.	100.	0	0	0	.00	1554.97	3926.15

0  
CCHV= .100 CEHV= .300

\*SECNO 1704.300

1704.30	10.64	66.74	.00	.00	66.76	.02	.08	.00	55.20
1350.	410.	687.	254.	959.	513.	626.	18614.	8024.	64.80
50.32	.43	1.34	.41	.050	.040	.050	.000	56.10	1559.72
.000096	1650.	1460.	1140.	2	0	0	.00	1118.19	2637.91

0  
CCHV= .300 CEHV= .500

\*SECNO 1704.200

1704.20	10.66	66.76	.00	.00	66.77	.02	.01	.00	65.20
1350.	487.	559.	305.	983.	368.	645.	18619.	8027.	64.80
50.35	.50	1.52	.47	.050	.040	.050	.000	56.10	1569.46
.000129	120.	120.	120.	0	0	0	.00	1118.88	2688.34

0  
SPECIAL BRIDGE

SB	XK	XKOR	CDFG	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	13.50	3.50	247.00	2.00	56.60	56.60

\*SECNO 1704.100

1  
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SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	BCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
67.48	66.77	.00	990.	360.	247.	247.	65.50	67.10

1704.10	10.69	66.79	.00	.00	66.81	.02	.03	.00	65.20
1350.	493.	547.	310.	1015.	370.	665.	18621.	8028.	64.80
50.36	.49	1.48	.47	.050	.040	.050	.000	56.10	1567.96
.000121	33.	33.	33.	1	0	7	.00	1122.92	2690.88

0  
\*SECNO 1704.000

1704.00	10.70	66.80	.00	.00	66.81	.01	.01	.00	65.20
1350.	418.	672.	260.	996.	517.	649.	18625.	8030.	64.80
50.39	.42	1.30	.40	.050	.040	.050	.000	56.10	1567.91
.000090	75.	75.	75.	0	0	0	.00	1123.04	2690.95

0  
CCHV= .100 CEHV= .300

\*SECNO 1703.000

1703.00	10.53	67.03	.00	.00	67.36	.33	.45	.09	71.10
1350.	0.	1350.	0.	0.	294.	0.	18678.	8055.	71.50
50.50	.00	4.58	.00	.050	.040	.050	.000	56.50	1760.67
.001781	1850.	1870.	1940.	2	0	0	.00	54.30	1814.97

0  
\*SECNO 1702.500

3265 DIVIDED FLOW

1350.	15.	1335.	0.	51.	439.	0.	18691.	3060.	71.00
50.63	.29	3.04	.00	.050	.040	.050	.000	56.60	3560.35
.000552	1440.	1440.	1440.	2	0	0	.00	249.95	4081.27

0

\*SECNO 1702.000

1702.00	12.08	68.98	.00	.00	69.12	.14	.43	.00	70.60
1350.	0.	1350.	0.	0.	452.	0.	18699.	8062.	70.00
50.71	.00	2.98	.00	.050	.040	.050	.000	56.90	4189.47
.000519	800.	800.	800.	2	0	0	.00	62.69	4252.16

0

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

\*SECNO 1701.700

3265 DIVIDED FLOW

1701.70	13.40	69.20	.00	.00	69.20	.00	.07	.01	66.80
1350.	304.	413.	632.	1957.	584.	2659.	18779.	8116.	66.60
51.63	.16	.71	.24	.050	.040	.050	.000	55.80	2071.91
.000021	1210.	1210.	1210.	2	0	0	.00	3747.29	5819.64

0

CCHV= .300 CEHV= .500

\*SECNO 1701.600

3265 DIVIDED FLOW

1701.60	13.40	69.20	.00	.00	69.20	.00	.00	.00	66.80
1350.	305.	412.	632.	1968.	584.	2668.	18790.	8125.	66.60
51.71	.16	.71	.24	.050	.040	.050	.000	55.80	2065.90
.000021	100.	100.	100.	2	0	0	.00	3755.30	5821.22

0

SPECIAL BRIDGE

SB	XK	XKDR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.60	.00	20.00	3.00	298.00	1.60	56.50	56.50	

\*SECNO 1701.500

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
69.70	69.20	.00	951.	399.	298.	287.	65.60	68.50

1701.50	13.44	69.24	.00	.00	69.24	.00	.04	.00	66.80
1350.	313.	403.	634.	2059.	587.	2738.	18793.	8127.	66.60
51.73	.15	.69	.23	.050	.040	.050	.000	55.80	2015.52
.000020	25.	25.	25.	0	0	7	.00	3818.92	5834.44

0

\*SECNO 1701.400

1701.40	13.44	69.24	.00	.00	69.24	.00	.00	.00	66.80
1350.	312.	404.	634.	2056.	587.	2736.	18799.	8131.	66.60
51.77	.15	.69	.23	.050	.040	.050	.000	55.80	2017.43
.000020	50.	50.	50.	0	0	0	.00	3816.51	5833.94

0

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

CCHV= .100 CEHV= .300  
 \*SECNO 1701.000

3265 DIVIDED FLOW

1701.00	10.98	69.28	.00	.00	69.28	.00	.04	.00	69.40
1080.	128.	521.	431.	791.	814.	2117.	18953.	8245.	67.60
52.83	.16	.64	.20	.050	.040	.050	.000	58.40	4088.50
.000030	1600.	1825.	1300.	0	0	0	.00	2993.40	7127.06

0  
1

THIS RUN EXECUTED 04-29-88

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 75 UPDATED MAY 1984  
 ERROR CORR - 01,02,03,04,05,06  
 MODIFICATION - 50,51,52,53,54,55,56  
 IBM-PC-XT VERSION AUGUST 1985  
 \*\*\*\*\*

T1  
 T2  
 T3 25-YR. WATER SURFACE PROFILE FOR REVISED EXISTING CONDITION

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FB
	0.	3.	0.	0.	.000170	.00	.0	0.	12.600	.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

1

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

\*PROF 2

CCHV= .100 CEHV= .300  
 \*SECNO 1766.000

3265 DIVIDED FLOW

1766.00	14.05	12.65	.00	12.60	12.67	.02	.00	.00	9.60
7100.	2416.	1540.	3144.	2827.	771.	4763.	0.	0.	8.60

.000173 0. 0. 0. 0 0 4 .00 5893.94 3007.00

0  
CCHV= .300 CEHV= .500  
\*SECNO 1765.400

3265 DIVIDED FLOW

1765.40 14.21 13.11 .00 .00 13.12 .02 .45 .00 8.40  
7100. 1340. 1794. 3977. 1872. 1021. 5664. 620. 390. 9.80  
.92 .72 1.75 .70 .040 .045 .040 .000 -1.10 5679.42  
.000118 3650. 3140. 3000. 2 0 0 .00 4829.71 10536.52

0  
\*SECNO 1765.300

3265 DIVIDED FLOW

1765.30 14.21 13.11 .00 .00 13.13 .02 .01 .00 8.10  
7100. 1413. 1673. 4014. 1922. 919. 5639. 630. 395. 8.10  
.93 .73 1.82 .71 .040 .045 .040 .000 -1.10 5640.66  
.000122 55. 50. 45. 0 0 0 .00 4872.84 10556.92

0  
SPECIAL BRIDGE

SB XK XKDR COFB RDLEN BWC BWP BAREA SS ELCHU ELCHD  
1.00 1.56 3.00 .00 26.00 6.30 435.00 3.00 -1.10 -1.10

\*SECNO 1765.200

3265 DIVIDED FLOW

1  
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SECNO DEPTH CWSEL CRTWS WSELK EG HV HL GLOSS BANK ELEV  
Q QLOB BCH QROB ALOB ACH ARQB VOL TWA LEFT/RIGHT  
TIME VLOB VCH VROB XNL XNCH XNR WTN ELMIN SSTA  
SLOPE XLOBL XLCH XLOBR ITRIAL IDC ICONT CORAR TOPWID ENDST

PRESSURE AND WEIR FLOW

EGPRS EGLWC H3 QWEIR DPR BAREA TRAPEZOID AREA ELLC ELTRD  
19.56 13.13 .00 6104. 975. 435. 435. 8.10 9.50

1765.20 14.32 13.22 .00 .00 13.23 .02 .10 .00 8.10  
7100. 1437. 1590. 4073. 2130. 928. 6019. 633. 398. 8.10  
.94 .67 1.71 .68 .040 .045 .040 .000 -1.10 5054.35  
.000106 18. 18. 18. 1 0 6 .00 5770.71 10865.59

0  
CCHV= .100 CEHV= .300  
\*SECNO 1765.100

3265 DIVIDED FLOW

1765.10 14.32 13.22 .00 .00 13.24 .02 .01 .00 8.40  
7100. 1367. 1693. 4040. 2085. 1032. 6062. 643. 404. 9.80  
.95 .66 1.64 .67 .040 .045 .040 .000 -1.10 5066.06  
.000103 55. 50. 45. 0 0 0 .00 5767.87 10859.42

0  
CCHV= .300 CEHV= .500

1764.60	13.82	13.53	.00	.00	13.55	.02	.41	.00	11.10
7100.	1064.	3094.	2942.	1397.	2099.	3693.	1264.	748.	11.40
1.90	.75	1.47	.90	.040	.045	.040	.000	-.20	6137.31
.000151	2380.	3400.	3245.	2	0	0	.00	3332.53	9469.84

0

\*SECNO 1764.500

1764.50	13.84	13.64	.00	.00	13.66	.02	.01	.00	11.10
7100.	1066.	3085.	2949.	1404.	2102.	3715.	1277.	754.	11.40
1.92	.75	1.47	.79	.040	.045	.040	.000	-.20	6136.03
.000149	75.	75.	75.	0	0	0	.00	3337.21	9473.25

0

\*SECNO 1764.400

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

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 13.30 MAX ELLC= 15.10

1764.40	13.81	13.61	.00	.00	13.70	.09	.00	.03	14.50
7100.	676.	5144.	1279.	1175.	1863.	1521.	1278.	755.	14.30
1.82	.58	2.76	.84	.040	.045	.040	.000	-.20	3780.28
.000551	10.	10.	10.	2	0	0	-2.51	4906.61	9397.62

0

\*SECNO 1764.300

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 13.30 MAX ELLC= 15.10

1764.30	13.84	13.64	.00	.00	13.73	.08	.03	.00	14.50
7100.	715.	5073.	1312.	1241.	1870.	1568.	1283.	761.	14.30
1.83	.58	2.71	.84	.040	.045	.040	.000	-.20	3701.08
.000531	50.	50.	50.	1	0	0	-2.92	5003.25	9410.29

0

\*SECNO 1764.200

1764.20	13.93	13.73	.00	.00	13.75	.02	.00	.02	11.10
7100.	1090.	3007.	3003.	1471.	2129.	3892.	1285.	761.	11.40
1.83	.74	1.41	.77	.040	.045	.040	.000	-.20	6123.89
.000136	10.	10.	10.	2	0	0	.00	3336.70	9460.59

0

CCHV= .100 CEHV= .300

\*SECNO 1764.100

1764.10	13.94	13.74	.00	.00	13.76	.02	.01	.00	11.10
7100.	1094.	2992.	3014.	1484.	2135.	3933.	1298.	767.	11.40
1.85	.74	1.40	.77	.040	.045	.040	.000	-.20	6121.52
.000133	75.	75.	75.	1	0	0	.00	3348.35	9469.87

0

\*SECNO 1764.000

1764.00	13.88	13.78	.00	.00	13.80	.02	.04	.00	11.20
6800.	1032.	2922.	2846.	1435.	2115.	3780.	1349.	790.	11.50
1.94	.72	1.38	.75	.040	.045	.040	.000	-.10	6130.48
.000131	300.	300.	300.	0	0	0	.00	3304.34	9434.82

0

1

SECNO	DEPTH	CWSEL	CRWS	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	CDRAR	TOPWID	ENDST

\*SECNO 1763.900

1763.90	14.88	14.18	.00	.00	14.21	.03	.41	.00	11.30
4990.	1318.	2420.	1252.	2216.	1333.	1422.	1735.	994.	10.50
2.62	.59	1.82	.88	.040	.045	.040	.000	-.80	6544.88
.000128	3000.	3180.	3100.	1	0	0	.00	2490.18	9035.06

0

\*SECNO 1763.700

1763.70	14.85	14.25	.00	.00	14.29	.03	.08	.00	11.50
4990.	1225.	2527.	1233.	1979.	1317.	1358.	1849.	1025.	10.70
2.74	.62	1.92	.91	.040	.045	.040	.000	-.60	6709.73
.000146	550.	600.	600.	0	0	0	.00	2325.09	9034.81

0

CCHV= .300 CEHV= .500

\*SECNO 1763.600

3265 DIVIDED FLOW

1763.60	14.87	14.27	.00	.00	14.30	.03	.01	.00	11.50
4990.	1265.	2319.	1406.	2036.	1159.	1463.	1859.	1030.	6.90
2.76	.62	2.00	.96	.040	.045	.040	.000	-.60	6073.89
.000150	90.	90.	90.	0	0	0	.00	2731.83	9034.84

0

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.00	1.56	2.90	.00	42.00	7.40	747.00	2.50	-.60	-.60	

\*SECNO 1763.500

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD
						AREA		
15.35	14.30	.00	4060.	927.	747.	804.	11.70	13.00

1763.50	14.87	14.27	.00	.00	14.30	.03	.00	.00	11.50
4990.	1268.	2316.	1406.	2043.	1160.	1465.	1861.	1031.	6.90
2.77	.62	2.00	.96	.040	.045	.040	.000	-.60	6073.86
.000150	19.	19.	19.	2	0	6	.00	2743.46	9034.85

0

1

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SECNO	DEPTH	CWSEL	CRWS	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	CDRAR	TOPWID	ENDST

\*SECNO 1763.400

3420 BRIDGE W.S.= 62.88 BRIDGE VELOCITY=, 1.82 CALCULATED CHANNEL AREA=, 658.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD
.00	62.93	.00	0.	1200.	712.	710.	63.40	66.40

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 66.40 ELREA= 66.40

1706.70	9.78	62.88	.00	.00	62.93	.05	.00	.00	65.50
1200.	0.	1200.	0.	0.	653.	0.	12641.	5452.	65.50
42.97	.00	1.84	.00	.000	.040	.000	.000	53.10	2474.06
.000223	200.	200.	200.	0	0	0	.00	105.97	2580.03

\*SECNO 1706.500

3265 DIVIDED FLOW

1706.50	10.07	63.67	.00	.00	63.75	.08	.81	.01	62.80
1200.	161.	1019.	19.	307.	425.	66.	12691.	5480.	62.90
43.36	.53	2.40	.29	.050	.040	.050	.000	53.60	3998.08
.000343	3000.	2950.	2900.	2	0	0	.00	714.37	4968.89

CCHV= .300 CEHV= .500

\*SECNO 1706.400

3265 DIVIDED FLOW

1706.40	10.10	63.70	.00	.00	63.79	.09	.03	.01	56.80
1200.	199.	908.	93.	356.	332.	131.	12692.	5481.	56.70
43.38	.56	2.74	.71	.050	.040	.050	.000	53.60	3995.45
.000302	100.	100.	100.	0	0	0	.00	740.43	4975.15

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

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	25.60	1.80	264.00	1.00	54.00	54.00

\*SECNO 1706.300

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
64.20	63.79	.00	76.	1116.	264.	270.	62.40	63.60

1706.30	10.48	64.08	.00	.00	64.13	.05	.34	.00	56.80
1200.	302.	784.	114.	713.	346.	221.	12693.	5482.	56.70
43.38	.56	2.74	.71	.050	.040	.050	.000	53.60	3995.45
.000302	100.	100.	100.	0	0	0	.00	740.43	4975.15



0

\*SECNO 1706.200

3265 DIVIDED FLOW

1706.20	10.51	64.11	.00	.00	64.15	.04	.02	.00	62.80
1200.	284.	867.	49.	707.	452.	162.	12696.	5485.	62.90
43.40	.40	1.92	.30	.050	.040	.050	.000	53.60	3370.81
.000203	90.	100.	100.	1	0	0	.00	1497.25	5065.93

0

CCHV= .100 CEHV= .300

\*SECNO 1706.000

3265 DIVIDED FLOW

1706.00	10.20	64.40	.00	.00	64.41	.01	.26	.00	62.30
1200.	247.	801.	152.	863.	863.	746.	12814.	5580.	63.50
44.50	.29	.93	.20	.050	.040	.050	.000	54.20	2252.45
.000053	2370.	2900.	3050.	2	0	0	.00	1653.26	3968.64

0

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SECNO	DEPTH	CWSEL	CRWS	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	XLDBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

\*SECNO 1705.700

3265 DIVIDED FLOW

1705.70	9.87	64.57	.00	.00	64.58	.01	.17	.00	65.20
1200.	362.	623.	215.	1317.	563.	597.	12975.	5687.	61.40
45.59	.27	1.11	.36	.050	.040	.050	.000	54.70	2392.45
.000066	3250.	2810.	2190.	2	0	0	.00	1636.59	4116.04

0

\*SECNO 1705.500

3265 DIVIDED FLOW

1705.50	11.56	64.66	.00	.00	64.68	.02	.10	.00	68.60
1200.	0.	622.	578.	2.	458.	997.	13025.	5714.	62.80
45.90	.03	1.36	.58	.050	.040	.050	.000	53.10	2407.05
.000115	1000.	1100.	1200.	2	0	0	.00	605.28	3988.15

0

CCHV= .300 CEHV= .500

\*SECNO 1705.400

1705.40	11.53	64.63	.00	.00	64.77	.14	.03	.06	69.80
1200.	0.	1200.	0.	0.	406.	0.	13028.	5717.	70.40
45.92	.00	2.96	.00	.050	.040	.050	.000	53.10	3456.64
.000501	1580.	150.	150.	2	0	0	.00	54.52	3511.16

0

\*SECNO 1705.300

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 65.80 MAX ELLC= 65.80

1705.30	11.29	64.39	.00	.00	65.07	.67	.03	.27	69.80
1200.	0.	1200.	0.	0.	182.	0.	13028.	5717.	70.40
45.92	.00	2.96	.00	.050	.040	.050	.000	53.10	3456.64
.000501	1580.	150.	150.	2	0	0	.00	54.52	3511.16

0

\*SECNO 1705.200

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SECNO	DEPTH	CWSEL	CRINS	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

3370 NORMAL BRIDGE,WRD= 4 MIN ELTRD= 65.80 MAX ELLC= 65.80

1705.20	11.38	64.48	.00	.00	65.15	.67	.08	.00	69.80
1200.	0.	1200.	0.	0.	182.	0.	13028.	5717.	70.40
45.92	.00	6.58	.00	.050	.040	.050	.000	53.10	3456.86
.016639	5.	5.	5.	2	0	0	-207.98	54.05	3510.91

0

\*SECNO 1705.100

3301 HV CHANGED MORE THAN HVINS

1705.10	12.13	65.23	.00	.00	65.35	.12	.04	.17	69.80
1200.	0.	1200.	0.	0.	432.	0.	13028.	5717.	70.40
45.92	.00	2.78	.00	.050	.040	.050	.000	53.10	3455.79
.000718	20.	20.	20.	2	0	0	.00	56.31	3512.11

0

\*SECNO 1705.000

3265 DIVIDED FLOW

1705.00	12.29	65.39	.00	.00	65.40	.00	.01	.03	68.60
1200.	280.	409.	511.	1485.	510.	1405.	13033.	5720.	62.80
45.98	.19	.80	.36	.050	.040	.050	.000	53.10	1695.22
.000036	100.	100.	100.	2	0	0	.00	2451.32	4198.31

0

CCHV= .100 CEHV= .300

\*SECNO 1704.900

1704.90	10.17	65.47	.00	.00	65.51	.04	.10	.01	59.10
1020.	70.	940.	10.	232.	569.	54.	13116.	5787.	64.70
46.30	.30	1.65	.18	.050	.040	.050	.000	55.30	3028.55
.000125	1400.	1800.	1970.	2	0	0	.00	1340.50	4369.05

0

\*SECNO 1704.700

1704.70	10.65	65.75	.00	.00	65.76	.01	.24	.00	64.90
1020.	220.	573.	226.	674.	549.	621.	13204.	5855.	61.90
47.41	.33	1.04	.36	.050	.040	.050	.000	55.10	2571.84
.000059	2300.	3030.	3220.	2	0	0	.00	951.29	3523.14

0

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SECNO	DEPTH	CWSEL	CRINS	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

\*SECNO 1704.600

1704.60	10.65	65.75	.00	.00	65.76	.01	.01	.00	61.70
1020.	225	525	259	698	474	681	13208.	5857.	59.50

.000056 100. 100. 100. 0 0 0 .00 956.71 3527.69

SPECIAL BRIDGE

SB XK XKOR CDFQ RDLEN BWC BWP BAREA SS ELCHU ELCHD  
1.00 1.56 2.80 .00 26.00 3.00 291.00 2.00 56.00 56.00

\*SECNO 1704.500  
PRESSURE AND WEIR FLOW

EGPRS EGLWC H3 QWEIR QPR BAREA TRAPEZOID AREA ELLC ELTRD  
66.05 65.77 .00 713. 304. 291. 290. 63.60 64.90

1704.50 10.67 65.77 .00 .00 65.78 .01 .02 .00 61.70  
1020. 227. 533. 261. 705. 475. 689. 13209. 5857. 59.50  
47.45 .32 1.12 .38 .050 .040 .050 .000 55.10 2569.40  
.000055 20. 20. 20. 1 0 6 .00 966.63 3536.03

\*SECNO 1704.400

1704.40 10.68 65.78 .00 .00 65.79 .01 .01 .00 64.90  
1020. 223. 569. 228. 685. 551. 634. 13213. 5859. 61.90  
47.49 .32 1.03 .36 .050 .040 .050 .000 55.10 2569.40  
.000057 100. 100. 100. 0 0 0 .00 966.63 3536.03

CCHV= .100 CEHV= .300  
\*SECNO 1704.300

3265 DIVIDED FLOW

1704.30 9.79 65.89 .00 .00 65.92 .03 .13 .01 65.20  
1020. 201. 717. 102. 492. 453. 297. 13264. 5890. 64.80  
47.82 .41 1.58 .34 .050 .040 .050 .000 56.10 1596.41  
.000158 1650. 1460. 1140. 2 0 0 .00 910.26 2636.94

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SECNO DEPTH CWSEL CRIWS WSELK EG HV HL OLOSS BANK ELEV  
Q BLOB BCH QROB ALDB ACH AROB VOL TWA LEFT/RIGHT  
TIME VLOB VCH YROB XNL XNCH XNR WTN ELMIN SSTA  
SLOPE XLOBL XLCH XLOBR ITRIAL IDC ICONT CCRAR TOPWID ENDST

CCHV= .300 CEHV= .500  
\*SECNO 1704.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 66.30 ELREA= 66.30

1704.20 9.76 65.86 .00 .00 66.02 .15 .03 .06 65.20  
1020. 0. 1020. 0. 0. 324. 0. 13266. 5891. 64.80  
47.83 .00 3.15 .00 .050 .040 .050 .000 56.10 2220.00  
.000662 120. 120. 120. 2 0 0 .00 50.00 2270.00

SPECIAL BRIDGE

SB XK XKOR CDFQ RDLEN BWC BWP BAREA SS ELCHU ELCHD  
1.00 1.56 2.60 .00 13.50 3.50 247.00 2.00 56.60 56.60

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
56.28	66.04	.02	0.	1020.	247.	247.	65.50	67.10

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 66.30 ELREA= 66.30

1704.10	10.03	66.13	.00	.00	66.28	.14	.26	.00	65.20
1020.	0.	1020.	0.	0.	337.	0.	13267.	5891.	64.80
47.83	.00	3.03	.00	.000	.040	.000	.000	56.10	2220.00
.000577	33.	33.	33.	2	0	0	.00	50.00	2270.00

0

\*SECNO 1704.000

3265 DIVIDED FLOW

1704.00	10.21	66.31	.00	.00	66.33	.02	.01	.04	65.20
1020.	261.	609.	151.	709.	483.	455.	13268.	5892.	64.80
47.86	.37	1.26	.33	.050	.040	.050	.000	56.10	1583.19
.000092	75.	75.	75.	2	0	0	.00	1004.58	2665.26

0

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

CCHV= .100 CEHV= .300

\*SECNO 1703.000

1703.00	10.10	66.60	.00	.00	66.82	.22	.43	.06	71.10
1020.	0.	1020.	0.	0.	272.	0.	13310.	5915.	71.50
47.99	.00	3.76	.00	.050	.040	.050	.000	56.50	1762.23
.001262	1850.	1870.	1940.	2	0	0	.00	52.16	1814.39

0

\*SECNO 1702.500

1702.50	11.13	67.73	.00	.00	67.84	.11	1.01	.01	71.60
1020.	0.	1020.	0.	0.	389.	0.	13321.	5917.	71.00
48.15	.00	2.62	.00	.050	.040	.050	.000	56.60	4020.76
.000445	1440.	1440.	1440.	2	0	0	.00	59.07	4079.84

0

\*SECNO 1702.000

1702.00	11.18	68.08	.00	.00	68.18	.10	.34	.00	70.60
1020.	0.	1020.	0.	0.	398.	0.	13328.	5918.	70.00
48.23	.00	2.56	.00	.050	.040	.050	.000	56.90	4190.84
.000402	800.	800.	800.	2	0	0	.00	57.13	4247.97

0

\*SECNO 1701.700

3265 DIVIDED FLOW

1701.70	12.49	68.29	.00	.00	68.30	.01	.11	.01	66.80
1020.	115.	485.	420.	598.	525.	1479.	13370.	5945.	66.60
48.81	.19	.92	.28	.050	.040	.050	.000	55.80	3117.41
.000041	1210.	1210.	1210.	2	0	0	.00	1906.46	5179.81

0

CCHV= .300 CEHV= .500

\*SECNO 1701.600

1701.60	12.50	68.30	.00	.00	68.31	.01	.00	.00	66.80
1020.	116.	482.	421.	612.	526.	1493.	13376.	5950.	66.60
48.86	.19	.92	.28	.050	.040	.050	.000	55.80	3100.42
.000041	100.	100.	100.	1	0	0	.00	1933.31	5187.88

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

SPECIAL BRIDGE

SB	XK	XKOR	COFB	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.00	1.56	2.60	.00	20.00	3.00	298.00	1.60	56.50	56.50

\*SECNO 1701.500  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
68.58	68.36	.00	403.	618.	298.	287.	65.60	68.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 68.50 ELREA= 68.50

1701.50	12.55	68.35	.00	.00	68.40	.06	.10	.00	66.80
1020.	0.	1020.	0.	0.	529.	0.	13376.	5950.	66.60
48.87	.00	1.93	.00	.000	.040	.000	.000	55.80	4138.00
.000179	25.	25.	25.	2	0	3	.00	65.00	4203.00

\*SECNO 1701.400

3265 DIVIDED FLOW

1701.40	12.62	68.42	.00	.00	68.42	.01	.00	.02	66.80
1020.	129.	458.	432.	723.	533.	1598.	13378.	5951.	66.60
48.89	.18	.86	.27	.050	.040	.050	.000	55.80	2974.44
.000035	50.	50.	50.	2	0	0	.00	2172.34	5286.20

CCHV= .100 CEHV= .300

\*SECNO 1701.000

3265 DIVIDED FLOW

1701.00	10.09	68.49	.00	.00	68.49	.01	.07	.00	69.40
830.	23.	599.	208.	179.	707.	893.	13458.	6017.	67.60
49.57	.13	.85	.23	.050	.040	.050	.000	58.40	4288.06
.000058	1600.	1825.	1300.	2	0	0	.00	1783.75	6239.10

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

100-YR. WATER SURFACE PR

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
Ⓐ	1766.000	.00	.00	.00	-1.40	9040.00	13.00	.00	13.02	1.69	2.02	10605.90	6947.14
	1766.000	.00	.00	.00	-1.40	7100.00	12.65	.00	12.67	1.73	2.00	8359.92	5405.56
	1765.400	3140.00	.00	.00	-1.10	9040.00	13.46	.00	13.48	1.24	1.83	10805.52	8103.29
	1765.400	3140.00	.00	.00	-1.10	7100.00	13.11	.00	13.12	1.18	1.75	8557.37	6534.30
	1765.300	50.00	.00	.00	-1.10	9040.00	13.47	.00	13.49	1.28	1.90	10744.15	8002.33
	1765.300	50.00	.00	.00	-1.10	7100.00	13.11	.00	13.13	1.22	1.82	8480.00	6439.83
Ⓑ	1765.200	18.00	9.50	8.10	-1.10	9040.00	13.58	.00	13.60	1.10	1.78	11713.21	8614.49
	1765.200	18.00	9.50	8.10	-1.10	7100.00	13.22	.00	13.23	1.06	1.71	9076.60	6885.45
	1765.100	50.00	.00	.00	-1.10	9040.00	13.59	.00	13.60	1.07	1.71	11818.11	8747.77
	1765.100	50.00	.00	.00	-1.10	7100.00	13.22	.00	13.24	1.03	1.64	9178.79	7003.78
	1764.600	3400.00	.00	.00	-.20	9040.00	14.02	.00	14.04	1.63	1.59	8516.33	7076.05
	1764.600	3400.00	.00	.00	-.20	7100.00	13.63	.00	13.65	1.51	1.47	7189.39	5782.67
	1764.500	75.00	.00	.00	-.20	9040.00	14.03	.00	14.05	1.62	1.58	8553.56	7112.69
	1764.500	75.00	.00	.00	-.20	7100.00	13.64	.00	13.66	1.49	1.47	7221.21	5812.29
	1764.400	10.00	13.30	15.10	-.20	9040.00	14.01	.00	14.07	4.67	2.56	6740.53	4181.66
	1764.400	10.00	13.30	15.10	-.20	7100.00	13.61	.00	13.70	5.51	2.76	4559.27	3025.70
	1764.300	50.00	13.30	15.10	-.20	9040.00	14.04	.00	14.10	4.63	2.55	6773.97	4201.64
	1764.300	50.00	13.30	15.10	-.20	7100.00	13.64	.00	13.73	5.31	2.71	4678.79	3080.38
Ⓒ	1764.200	10.00	.00	.00	-.20	9040.00	14.09	.00	14.11	1.52	1.54	8764.36	7329.92
	1764.200	10.00	.00	.00	-.20	7100.00	13.73	.00	13.75	1.36	1.41	7492.28	6091.89
	1764.100	75.00	.00	.00	-.20	9040.00	14.10	.00	14.12	1.49	1.53	8837.55	7394.74
	1764.100	75.00	.00	.00	-.20	7100.00	13.74	.00	13.76	1.33	1.40	7551.52	6148.79

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	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
	1764.000	300.00	.00	.00	-.10	8650.00	14.15	.00	14.17	1.45	1.50	8592.37	7172.05
	1764.000	300.00	.00	.00	-.10	6800.00	13.78	.00	13.80	1.31	1.38	7328.76	5935.86
	1763.900	3180.00	.00	.00	-.80	6300.00	14.58	.00	14.61	1.38	1.93	5988.72	5366.46
	1763.900	3180.00	.00	.00	-.80	4990.00	14.18	.00	14.21	1.28	1.82	4970.66	4404.35
	1763.700	600.00	.00	.00	-.60	6300.00	14.66	.00	14.70	1.56	2.03	5671.81	5050.75
	1763.700	600.00	.00	.00	-.60	4990.00	14.25	.00	14.29	1.46	1.92	4653.92	4136.74

	1763.600	90.00	.00	.00	-.60	4990.00	14.27	.00	14.30	1.50	2.00	4658.00	4070.04
Ⓓ	1763.500	19.00	13.00	11.70	-.60	6300.00	14.69	.00	14.72	1.55	2.08	5903.77	5065.85
	1763.500	19.00	13.00	11.70	-.60	4990.00	14.27	.00	14.30	1.50	2.00	4667.79	4077.12
	1763.400	90.00	.00	.00	-.60	6300.00	14.70	.00	14.74	1.47	1.98	6006.19	5201.34
	1763.400	90.00	.00	.00	-.60	4990.00	14.29	.00	14.32	1.41	1.89	4766.09	4199.95
	1763.200	300.00	.00	.00	-.50	6300.00	14.75	.00	14.78	1.55	2.03	5848.27	5062.04
	1763.200	300.00	.00	.00	-.50	4990.00	14.33	.00	14.36	1.49	1.94	4619.31	4092.57
	1763.000	1000.00	.00	.00	-.30	6300.00	14.91	.00	14.94	1.63	2.07	5698.36	4932.80
	1763.000	1000.00	.00	.00	-.30	4990.00	14.48	.00	14.52	1.57	1.98	4476.71	3984.80
	1762.800	4000.00	.00	.00	-.20	6300.00	15.40	.00	15.41	.88	1.47	7418.76	6707.34
	1762.800	4000.00	.00	.00	-.20	4990.00	14.95	.00	14.96	.83	1.38	6111.59	5465.30
	1762.500	770.00	.00	.00	.00	6300.00	15.46	.00	15.48	.99	1.54	7016.19	6317.01
	1762.500	770.00	.00	.00	.00	4990.00	15.01	.00	15.03	.95	1.46	5742.54	5128.66
	1762.400	100.00	.00	.00	.00	6300.00	15.47	.00	15.49	.99	1.54	7044.19	6343.34
	1762.400	100.00	.00	.00	.00	4990.00	15.02	.00	15.04	.94	1.46	5766.26	5150.08
Ⓔ	1762.300	19.00	13.80	12.60	.00	6300.00	15.55	.00	15.56	.91	1.49	7295.65	6587.27
	1762.300	19.00	13.80	12.60	.00	4990.00	15.09	.00	15.10	.88	1.41	5966.23	5331.92
	1762.200	90.00	.00	.00	.00	6300.00	15.56	.00	15.57	.91	1.49	7295.65	6587.27
	1762.200	90.00	.00	.00	.00	4990.00	15.09	.00	15.11	.88	1.41	5966.15	5331.84
	1762.000	300.00	.00	.00	.10	6300.00	15.58	.00	15.60	.98	1.53	7075.51	6374.11
	1762.000	300.00	.00	.00	.10	4990.00	15.12	.00	15.14	.94	1.46	5766.76	5150.55
Ⓕ	1761.000	4070.00	.00	.00	1.00	6090.00	16.36	.00	16.65	14.60	4.47	1873.96	1593.95
	1761.000	4070.00	.00	.00	1.00	4830.00	15.87	.00	16.11	12.00	3.98	1379.07	1394.13
	1760.800	1530.00	.00	.00	1.20	6090.00	17.88	.00	17.98	5.71	2.97	3446.68	2548.76
	1760.800	1530.00	.00	.00	1.20	4830.00	17.26	.00	17.37	5.89	2.92	2405.62	1989.65
Ⓖ	1760.400	2140.00	.00	.00	1.70	6090.00	18.83	.00	18.87	3.29	2.29	4447.43	3360.06
	1760.400	2140.00	.00	.00	1.70	4830.00	18.24	.00	18.29	3.36	2.24	3512.89	2634.98

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	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRINS	EG	10K*5	VCH	AREA	.01K
	1760.300	100.00	.00	.00	1.70	6090.00	18.86	.00	18.91	2.63	2.20	4781.02	3754.22
	1760.300	100.00	.00	.00	1.70	4830.00	18.28	.00	18.32	2.59	2.12	3817.31	3001.21
	1760.200	21.00	17.50	16.00	1.70	6090.00	18.74	.00	19.13	15.91	5.02	1214.85	1526.97
	1760.200	21.00	17.50	16.00	1.70	4830.00	18.33	.00	18.59	11.19	4.12	1173.35	1444.16
	1760.100	80.00	.00	.00	1.70	6090.00	18.88	.00	19.26	15.33	4.97	1229.17	1555.42
	1760.100	80.00	.00	.00	1.70	4830.00	18.43	.00	18.69	10.90	4.09	1182.82	1463.12
Ⓗ	1759.000	4390.00	.00	.00	3.00	6090.00	23.73	.00	23.96	7.86	3.88	1629.31	2171.80
	1759.000	4390.00	.00	.00	3.00	4830.00	22.35	.00	22.54	7.19	3.46	1420.84	1800.90
Ⓘ	1758.000	3170.00	.00	.00	3.70	6090.00	25.80	.00	25.97	5.20	3.41	1910.93	2670.95
	1758.000	3170.00	.00	.00	3.70	4830.00	24.26	.00	24.41	4.90	3.09	1652.39	2182.77
	1757.800	100.00	.00	.00	3.70	6090.00	26.08	.00	26.08	.24	.74	12839.70	12402.83
	1757.800	100.00	.00	.00	3.70	4830.00	24.49	.00	24.50	.40	.89	8872.28	7640.33

	1757.600	2660.00	.00	.00	4.30	4830.00	24.61	.00	24.62	.56	1.03	7840.48	6471.82
Ⓝ	1757.500	60.00	.00	.00	4.30	6090.00	26.15	.00	26.16	.33	.84	11428.38	10658.96
	1757.500	60.00	.00	.00	4.30	4830.00	24.62	.00	24.62	.56	1.03	7848.09	6480.34
	1757.400	16.90	21.70	21.50	4.30	6090.00	26.27	.00	26.27	.47	1.02	9106.52	8862.03
	1757.400	16.00	21.70	21.50	4.30	4830.00	24.71	.00	24.73	.74	1.19	6325.70	5599.16
	1757.300	50.00	.00	.00	4.30	6090.00	26.27	.00	26.28	.47	1.02	9093.46	8846.20
	1757.300	50.00	.00	.00	4.30	4830.00	24.72	.00	24.73	.75	1.19	6321.20	5594.03
	1756.500	1660.00	.00	.00	4.20	6090.00	26.39	.00	26.41	1.12	1.40	6784.57	5762.97
	1756.500	1660.00	.00	.00	4.20	4830.00	24.91	.00	24.94	2.09	1.77	4380.26	3339.92
Ⓚ	1756.000	1080.00	.00	.00	4.40	6090.00	26.51	.00	26.53	1.18	1.44	6638.96	5609.84
	1756.000	1080.00	.00	.00	4.40	4830.00	25.13	.00	25.16	2.06	1.76	4410.96	3368.71
	1755.900	300.00	.00	.00	4.50	6090.00	26.55	.00	26.56	1.23	1.47	6519.45	5484.72
	1755.900	300.00	.00	.00	4.50	4830.00	25.20	.00	25.23	2.12	1.78	4356.97	3319.17
	1755.500	2000.00	.00	.00	4.30	5750.00	26.91	.00	27.07	7.21	3.36	2191.06	2141.68
	1755.500	2000.00	.00	.00	4.30	4560.00	25.79	.00	25.94	7.13	3.17	1550.50	1707.16
Ⓛ	1755.000	1860.00	.00	.00	4.20	4190.00	27.77	.00	27.81	2.33	1.68	3380.38	2747.32
	1755.000	1860.00	.00	.00	4.20	3230.00	26.73	.00	26.77	2.72	1.73	2470.59	1959.42
	1754.800	800.00	.00	.00	4.30	4190.00	27.95	.00	27.98	2.15	1.66	3441.66	2855.19
	1754.800	800.00	.00	.00	4.30	3230.00	26.94	.00	26.97	2.56	1.73	2637.89	2018.02
	1754.700	80.00	.00	.00	4.30	4190.00	27.97	.00	27.99	2.13	1.66	3456.09	2871.77
	1754.700	80.00	.00	.00	4.30	3230.00	26.96	.00	26.99	2.52	1.72	2654.66	2033.66

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	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIMS	EG	10K*5	VCH	AREA	.01K
Ⓜ	1754.600	18.00	25.00	23.80	4.30	4190.00	28.52	.00	28.54	1.51	1.43	3899.45	3405.95
	1754.600	18.00	25.00	23.80	4.30	3230.00	27.34	.00	27.37	1.92	1.53	2957.20	2329.59
	1754.500	40.00	.00	.00	4.30	4190.00	28.52	.00	28.54	1.51	1.43	3905.34	3413.36
	1754.500	40.00	.00	.00	4.30	3230.00	27.35	.00	27.37	1.91	1.52	2964.28	2336.82
	1754.400	730.00	.00	.00	5.60	4190.00	28.64	.00	28.67	1.80	1.61	3816.39	3124.17
	1754.400	730.00	.00	.00	5.60	3230.00	27.50	.00	27.53	2.43	1.78	2706.85	2072.54
Ⓝ	1754.300	80.00	.00	.00	5.60	4190.00	28.65	.00	28.68	1.85	1.71	3760.89	3076.42
	1754.300	80.00	.00	.00	5.60	3230.00	27.52	.00	27.56	2.54	1.92	2658.26	2026.13
	1754.200	13.00	22.70	21.80	5.60	4190.00	29.08	.00	29.10	1.38	1.51	4190.02	3562.00
	1754.200	13.00	22.70	21.80	5.60	3230.00	27.82	.00	27.85	2.01	1.73	2953.42	2277.27
	1754.100	50.00	.00	.00	5.60	4190.00	29.09	.00	29.11	1.33	1.42	4262.21	3628.22
	1754.100	50.00	.00	.00	5.60	3230.00	27.84	.00	27.86	1.88	1.59	3038.36	2354.79
Ⓞ	1754.000	480.00	.00	.00	5.60	4190.00	29.15	.00	29.17	1.14	1.32	5085.06	3921.17
	1754.000	480.00	.00	.00	5.60	3230.00	27.93	.00	27.95	1.88	1.60	3415.69	2356.64
	1753.500	1880.00	.00	.00	9.20	4190.00	29.41	.00	29.43	1.64	1.51	4401.12	3267.29
	1753.500	1880.00	.00	.00	9.20	3230.00	28.32	.00	28.35	2.34	1.71	3016.54	2109.57
	1753.400	100.00	.00	.00	9.20	4190.00	29.42	.00	29.44	1.62	1.50	4434.17	3296.66
	1753.400	100.00	.00	.00	9.20	3230.00	28.34	.00	28.37	2.30	1.70	3040.94	2128.61



1753.300	28.00	25.90	24.80	9.20	3230.00	28.36	.00	28.39	2.26	1.68	3068.64	2150.29
1753.200	50.00	.00	.00	9.20	4190.00	29.47	.00	29.49	1.56	1.48	4502.44	3357.54
1753.200	50.00	.00	.00	9.20	3230.00	28.37	.00	28.40	2.23	1.68	3081.91	2150.70
1753.000	300.00	.00	.00	9.20	4190.00	29.52	.00	29.54	1.96	1.66	3482.93	2992.52
1753.000	300.00	.00	.00	9.20	3230.00	28.44	.00	28.47	2.38	1.74	2710.67	2091.86
1752.300	1100.00	.00	.00	9.70	4190.00	29.69	.00	29.70	1.03	1.18	5862.21	4132.45
1752.300	1100.00	.00	.00	9.70	3230.00	28.67	.00	28.69	1.65	1.43	4092.40	2512.52
1752.200	1410.00	.00	.00	10.00	4190.00	29.87	.00	29.89	1.77	1.52	3666.38	3152.27
1752.200	1410.00	.00	.00	10.00	3230.00	28.92	.00	28.95	1.94	1.52	2960.06	2316.82
Q 1752.100	250.00	.00	.00	10.00	4190.00	29.92	.00	30.07	6.91	3.13	1441.55	1593.94
1752.100	250.00	.00	.00	10.00	3230.00	28.98	.00	29.09	5.40	2.65	1293.69	1389.89
1752.000	300.00	.00	.00	10.00	4190.00	30.21	.00	30.25	2.74	2.00	2791.91	2531.25
1752.000	300.00	.00	.00	10.00	3230.00	29.19	.00	29.24	2.80	1.93	2183.68	1930.58
1751.800	850.00	.00	.00	9.60	4190.00	30.38	.00	30.38	.56	.86	8408.44	5576.64
1751.800	850.00	.00	.00	9.60	3230.00	29.40	.00	29.41	.91	1.04	5520.60	3391.56

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
1751.700	100.00	.00	.00	9.60	4190.00	30.38	.00	30.39	.56	.86	8449.48	5609.76
1751.700	100.00	.00	.00	9.60	3230.00	29.41	.00	29.42	.89	1.03	5571.51	3427.27
R 1751.600	18.00	27.00	26.40	9.60	4190.00	30.62	.00	30.63	.45	.78	9255.68	6270.53
1751.600	18.00	27.00	26.40	9.60	3230.00	29.60	.00	29.60	.73	.95	6070.01	3782.96
1751.500	50.00	.00	.00	9.70	4190.00	30.62	.00	30.63	.49	.81	8908.57	5983.68
1751.500	50.00	.00	.00	9.70	3230.00	29.60	.00	29.61	.81	.99	5789.65	3581.61
1751.300	1530.00	.00	.00	11.50	4190.00	30.71	.00	30.72	.70	.98	7301.40	4990.45
1751.300	1530.00	.00	.00	11.50	3230.00	29.74	.00	29.75	1.09	1.16	4835.06	3099.43
1751.200	100.00	.00	.00	11.50	4040.00	30.72	.00	30.72	.57	.89	7577.36	5370.56
1751.200	100.00	.00	.00	11.50	3120.00	29.75	.00	29.76	.82	1.02	5094.03	3449.57
S 1751.100	36.00	29.80	28.30	11.50	4040.00	30.91	.00	30.91	.48	.83	8132.20	5829.11
1751.100	36.00	29.80	28.30	11.50	3120.00	29.92	.00	29.93	.69	.95	5518.01	3753.49
1751.000	80.00	.00	.00	11.50	4040.00	30.91	.00	30.92	.54	.87	7892.02	5486.23
1751.000	80.00	.00	.00	11.50	3120.00	29.93	.00	29.93	.84	1.03	5277.16	3413.24
1750.800	1820.00	.00	.00	11.40	4040.00	31.07	.00	31.10	1.84	1.57	3770.81	2979.90
1750.800	1820.00	.00	.00	11.40	3120.00	30.14	.00	30.17	2.06	1.59	2663.36	2175.22
1750.700	100.00	.00	.00	11.40	4040.00	31.09	.00	31.12	1.93	1.42	3797.80	2908.45
1750.700	100.00	.00	.00	11.40	3120.00	30.17	.00	30.19	2.26	1.45	2865.07	2077.49
T 1750.600	22.00	32.30	28.00	11.40	4040.00	31.40	.00	31.48	4.55	2.22	1819.53	1894.80
1750.600	22.00	32.30	28.00	11.40	3120.00	30.34	.00	30.40	3.77	1.89	1647.84	1606.27
1750.500	50.00	.00	.00	11.40	4040.00	31.49	.00	31.51	1.48	1.28	4415.36	3315.39
1750.500	50.00	.00	.00	11.40	3120.00	30.40	.00	30.42	1.93	1.36	3133.99	2246.39
1750.400	450.00	.00	.00	11.50	4040.00	31.56	.00	31.59	1.96	1.65	3589.60	2889.37
1750.400	450.00	.00	.00	11.50	3120.00	30.49	.00	30.52	2.39	1.73	2413.74	2017.63

1750.300	500.00	.00	.00	15.90	3120.00	30.64	.00	30.70	4.83	2.22	2258.27	1420.10
1750.200	80.00	.00	.00	13.80	4040.00	31.70	.00	31.72	2.32	1.65	4635.57	2650.83
1750.200	80.00	.00	.00	13.80	3120.00	30.64	.00	30.82	11.41	3.45	905.30	923.52
U 1750.100	33.00	32.00	30.50	13.80	4040.00	31.82	.00	31.83	1.98	1.53	4975.48	2871.01
U 1750.100	33.00	32.00	30.50	13.80	3120.00	31.15	.00	31.19	3.48	1.96	2540.46	1671.79
1750.000	60.00	.00	.00	13.80	4040.00	31.83	.00	31.85	1.81	1.49	5079.53	3006.85
1750.000	60.00	.00	.00	13.80	3120.00	31.13	.00	31.21	2.34	1.64	3443.53	2038.19
1749.900	300.00	.00	.00	13.90	4040.00	31.88	.00	31.90	1.90	1.52	4959.58	2927.55
1749.900	300.00	.00	.00	13.90	3120.00	31.26	.00	31.28	2.43	1.66	3371.23	2000.16

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	SECNC	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIMS	EG	10K*9	VCH	AREA	.01K
V 1749.000	2310.00	.00	.00	14.70	4040.00	32.66	.00	32.78	8.53	2.96	1775.15	1383.22	
V 1749.000	2310.00	.00	.00	14.70	3120.00	32.13	.00	32.23	7.07	2.61	1475.62	1173.02	
1748.300	2700.00	.00	.00	15.80	3900.00	33.58	.00	33.59	1.51	1.36	4358.49	3173.09	
1748.300	2700.00	.00	.00	15.80	3010.00	32.98	.00	32.99	1.48	1.31	3583.67	2471.84	
W 1748.200	100.00	.00	.00	15.80	3900.00	33.59	.00	33.61	1.54	1.35	4358.62	3143.44	
W 1748.200	100.00	.00	.00	15.80	3010.00	32.99	.00	33.01	1.54	1.30	3548.77	2422.70	
1748.100	35.00	33.90	32.60	15.80	3900.00	33.66	.00	33.68	1.47	1.32	4414.95	3216.30	
1748.100	35.00	33.90	32.60	15.80	3010.00	33.28	.00	33.29	1.20	1.17	3916.34	2750.31	
1748.000	55.00	.00	.00	15.80	3900.00	33.67	.00	33.69	2.13	1.63	4493.40	2669.94	
1748.000	55.00	.00	.00	15.80	3010.00	33.28	.00	33.30	1.69	1.42	3985.95	2317.72	
X 1747.000	3350.00	.00	.00	16.90	3900.00	34.96	.00	35.12	11.31	3.49	1599.33	1159.65	
X 1747.000	3350.00	.00	.00	16.90	3010.00	34.32	.00	34.45	9.40	3.06	1258.14	981.51	
Y 1746.000	1190.00	.00	.00	17.30	3900.00	35.74	.00	35.77	2.99	1.88	3890.71	2257.00	
Y 1746.000	1190.00	.00	.00	17.30	3010.00	35.04	.00	35.07	3.11	1.85	2958.38	1705.93	
Z 1745.000	1860.00	.00	.00	18.60	3900.00	36.66	.00	36.88	14.47	3.83	1019.08	1025.43	
Z 1745.000	1860.00	.00	.00	18.60	3010.00	35.92	.00	36.08	10.30	3.15	954.09	938.03	
AA 1744.000	1580.00	.00	.00	18.40	3590.00	38.14	.00	38.20	5.10	2.33	2535.05	1589.57	
AA 1744.000	1580.00	.00	.00	18.40	2650.00	37.25	.00	37.33	6.07	2.46	1441.75	1075.44	
AB 1743.000	1830.00	.00	.00	19.00	3590.00	38.89	.00	38.92	3.13	1.92	2980.24	2028.95	
AB 1743.000	1830.00	.00	.00	19.00	2650.00	38.12	.00	38.16	3.50	1.94	2005.65	1415.70	
AC 1742.000	1670.00	.00	.00	19.50	3590.00	39.58	.00	39.67	6.11	2.63	2176.87	1452.31	
AC 1742.000	1670.00	.00	.00	19.50	2650.00	38.81	.00	38.88	4.88	2.25	1670.01	1199.09	
1741.800	1335.00	.00	.00	20.00	3280.00	40.42	.00	40.52	6.58	2.66	1608.52	1278.77	
1741.800	1335.00	.00	.00	20.00	2290.00	39.44	.00	39.51	4.64	2.11	1086.04	1063.30	
1741.700	60.00	.00	.00	20.00	3280.00	40.44	.00	40.59	8.93	3.07	1066.76	1097.32	
1741.700	60.00	.00	.00	20.00	2290.00	39.47	.00	39.55	5.84	2.34	976.93	947.68	
1741.600	37.00	42.10	38.90	20.00	3280.00	40.62	.00	40.76	8.51	3.03	1082.33	1124.15	
1741.600	37.00	42.10	38.90	20.00	2290.00	39.54	.00	39.62	5.72	2.33	982.94	957.42	
1741.500	60.00	.00	.00	20.00	3280.00	40.73	.00	40.82	5.67	2.52	1870.13	1377.04	
1741.500	60.00	.00	.00	20.00	2290.00	39.59	.00	39.66	4.44	2.08	1114.15	1086.61	

1741.300	80.00	.00	.00	21.70	2290.00	39.62	.00	39.70	4.82	2.24	1075.50	1043.36
1741.200	50.00	.00	.00	21.70	3280.00	40.90	.00	40.90	5.96	2.66	1877.21	1343.96
1741.200	50.00	.00	.00	21.70	2290.00	39.55	.00	39.72	4.83	2.25	1018.10	1041.55

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K+S	VCH	AREA	.01K
1741.100	37.00	42.10	38.50	21.70	3280.00	41.01	.00	41.14	6.84	2.88	1137.98	1253.87
1741.100	37.00	42.10	38.50	21.70	2290.00	39.73	.00	39.81	4.71	2.23	1025.82	1054.70
1741.000	100.00	.00	.00	21.70	3280.00	41.13	.00	41.21	5.04	2.49	2151.60	1460.39
1741.000	100.00	.00	.00	21.70	2290.00	39.78	.00	39.86	4.58	2.21	1154.02	1070.34
(D) 174103.000	70.00	.00	.00	21.70	3280.00	41.19	.00	41.25	2.43	1.90	2308.79	2106.16
174103.000	70.00	.00	.00	21.70	2290.00	39.85	.00	39.89	1.82	1.55	1604.53	1699.40
174102.000	40.00	39.70	38.20	21.70	3280.00	41.21	.00	41.26	2.40	1.90	2331.85	2115.96
174102.000	40.00	39.70	38.20	21.70	2290.00	39.89	.00	39.93	1.82	1.56	1472.16	1696.98
174101.000	50.00	.00	.00	21.70	3280.00	41.27	.00	41.29	1.75	1.48	5733.12	2477.69
174101.000	50.00	.00	.00	21.70	2290.00	39.90	.00	39.94	2.64	1.69	2854.27	1408.40
(E) 1740.000	2580.00	.00	.00	23.00	3280.00	42.19	.00	42.45	19.18	4.15	817.39	749.04
1740.000	2580.00	.00	.00	23.00	2290.00	41.13	.00	41.29	12.31	3.21	713.15	652.78
(F) 1739.400	700.00	.00	.00	25.00	3280.00	43.09	.00	43.18	5.78	2.63	2137.12	1364.75
1739.400	700.00	.00	.00	25.00	2290.00	41.77	.00	41.85	5.40	2.37	1272.87	985.59
1739.300	90.00	.00	.00	25.00	3280.00	43.14	.00	43.23	5.60	2.60	2185.70	1385.51
1739.300	90.00	.00	.00	25.00	2290.00	41.82	.00	41.90	5.28	2.36	1297.98	996.70
1739.200	50.00	41.80	40.20	25.00	3280.00	43.47	.00	43.54	4.64	2.41	2568.40	1522.88
1739.200	50.00	41.80	40.20	25.00	2290.00	41.99	.00	42.07	4.88	2.29	1386.96	1035.39
1739.100	50.00	.00	.00	25.00	3280.00	43.50	.00	43.56	4.57	2.39	2605.08	1534.76
1739.100	50.00	.00	.00	25.00	2290.00	42.02	.00	42.09	4.83	2.28	1400.45	1042.45
1738.500	1480.00	.00	.00	25.50	3280.00	43.97	.00	43.99	1.19	1.32	5008.47	3003.47
1738.500	1480.00	.00	.00	25.50	2290.00	42.47	.00	42.49	1.33	1.30	3074.93	1985.38
1738.400	500.00	.00	.00	25.50	3280.00	44.04	.00	44.08	1.94	1.69	2815.88	2354.41
1738.400	500.00	.00	.00	25.50	2290.00	42.54	.00	42.57	1.63	1.44	2060.33	1795.91
(G) 1738.300	350.00	.00	.00	25.50	3280.00	44.12	.00	44.16	2.64	1.78	2738.85	2019.88
1738.300	350.00	.00	.00	25.50	2290.00	42.61	.00	42.66	3.14	1.77	1292.27	1291.51
1738.200	40.00	45.40	40.60	25.50	3280.00	44.36	.00	44.44	3.84	2.17	1509.44	1673.15
1738.200	40.00	45.40	40.60	25.50	2290.00	42.72	.00	42.76	3.03	1.75	1306.66	1315.56
1738.100	180.00	.00	.00	25.50	3280.00	44.46	.00	44.49	1.55	1.54	3720.62	2635.16
1738.100	180.00	.00	.00	25.50	2290.00	42.78	.00	42.81	1.51	1.40	2138.52	1862.85
(H) 1737.600	260.00	.00	.00	22.80	3280.00	44.50	.00	44.55	2.51	2.04	2855.13	2070.09
1737.600	260.00	.00	.00	22.80	2290.00	42.82	.00	42.86	2.29	1.81	1607.72	1511.97
1737.500	50.00	42.70	41.40	22.80	3280.00	44.53	.00	44.56	1.71	1.69	3961.01	2507.55
1737.500	50.00	42.70	41.40	22.80	2290.00	42.86	.00	42.89	1.85	1.63	2326.78	1682.71

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*8	VCH	AREA	.01K
1737.400	320.00	.00	.00	25.00	3280.00	44.61	.00	44.64	3.31	2.06	3556.30	1803.91
1737.400	320.00	.00	.00	25.00	2290.00	42.94	.00	43.00	4.71	2.25	1993.55	1055.18
I 1737.300	700.00	.00	.00	27.90	3320.00	44.83	.00	44.87	3.19	1.94	2813.18	1852.94
I 1737.300	700.00	.00	.00	27.90	2320.00	43.25	.00	43.31	4.18	2.02	1147.86	1134.37
1737.200	160.00	45.20	42.10	27.90	3320.00	45.10	.00	45.19	4.53	2.39	1391.58	1557.80
1737.200	160.00	45.20	42.10	27.90	2320.00	43.36	.00	42.42	3.63	1.93	1199.15	1217.17
1737.100	450.00	.00	.00	27.90	3320.00	45.30	.00	45.34	2.52	1.80	3155.25	2092.07
1737.100	450.00	.00	.00	27.90	2320.00	43.53	.00	43.58	3.46	1.91	1217.10	1247.68
1736.700	500.00	.00	.00	28.60	3320.00	45.44	.00	45.47	2.02	1.65	3880.11	2335.39
1736.700	500.00	.00	.00	28.60	2320.00	43.70	.00	43.74	2.58	1.70	2376.64	1445.28
J 1736.600	100.00	.00	.00	28.60	3320.00	45.45	.00	45.51	4.52	1.98	1678.67	1561.58
J 1736.600	100.00	.00	.00	28.60	2320.00	43.73	.00	43.78	4.36	1.70	1368.16	1110.48
1736.500	20.00	48.70	46.80	28.60	3320.00	45.46	.00	45.52	4.51	1.98	1679.42	1562.74
1736.500	20.00	48.70	46.80	28.60	2320.00	43.74	.00	43.78	4.36	1.69	1368.89	1111.47
1736.400	150.00	.00	.00	28.60	3320.00	45.56	.00	45.58	1.98	1.32	3994.56	2358.60
1736.400	150.00	.00	.00	28.60	2320.00	43.82	.00	43.84	2.83	1.37	2454.22	1379.02
K 1736.000	850.00	.00	.00	29.00	3320.00	45.69	.00	45.70	1.08	1.15	6319.27	3188.19
K 1736.000	850.00	.00	.00	29.00	2320.00	44.01	.00	44.03	1.69	1.30	4019.02	1785.19
1735.800	360.00	.00	.00	29.60	3320.00	45.74	.00	45.75	1.36	1.26	5977.57	2844.25
1735.800	360.00	.00	.00	29.60	2320.00	44.08	.00	44.10	2.25	1.47	3610.11	1547.15
L 1735.700	350.00	.00	.00	29.60	3320.00	45.79	.00	45.80	1.27	1.22	6270.34	2944.06
L 1735.700	350.00	.00	.00	29.60	2320.00	44.16	.00	44.18	2.13	1.43	3889.26	1591.01
1735.600	42.00	43.40	39.50	29.60	3320.00	45.84	.00	45.85	1.09	1.14	7309.44	3174.91
1735.600	42.00	43.40	39.50	29.60	2320.00	44.39	.00	44.40	1.74	1.32	4433.77	1757.30
1735.500	200.00	.00	.00	29.60	3320.00	45.87	.00	45.88	2.05	1.56	5684.39	2316.66
1735.500	200.00	.00	.00	29.60	2320.00	44.43	.00	44.45	3.05	1.75	2681.59	1328.21
1735.300	480.00	.00	.00	28.20	3320.00	45.97	.00	45.97	.61	.82	11116.37	4262.84
1735.300	480.00	.00	.00	28.20	2320.00	44.58	.00	44.59	1.00	.97	6299.79	2324.59
M 1735.200	100.00	.00	.00	28.20	3320.00	45.98	.00	45.98	.60	.87	11140.56	4292.31
M 1735.200	100.00	.00	.00	28.20	2320.00	44.59	.00	44.60	.96	1.02	6332.45	2362.75
1735.100	40.00	43.70	42.10	28.20	3320.00	46.01	.00	46.02	.58	.86	11315.88	4357.54
1735.100	40.00	43.70	42.10	28.20	2320.00	44.62	.00	44.63	.94	1.01	6419.11	2396.45
1735.000	130.00	.00	.00	28.20	3320.00	46.02	.00	46.03	.56	.79	11402.65	4443.56
1735.000	130.00	.00	.00	28.20	2320.00	44.64	.00	44.64	.92	.93	6478.21	2418.80

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*8	VCH	AREA	.01K
N 1734.000	1310.00	.00	.00	30.54	3320.00	46.12	.00	46.12	.53	.76	10370.71	4568.61
N 1734.000	1310.00	.00	.00	30.54	2320.00	44.77	.00	44.78	.75	.83	6986.83	2686.94
1733.400	1620.00	.00	.00	30.50	3320.00	46.24	.00	46.24	1.12	1.12	6453.42	3137.78
1733.400	1620.00	.00	.00	30.50	2320.00	44.93	.00	44.94	1.34	1.13	4407.96	2002.95

1733.300	580.00	.00	.00	34.00	2350.00	45.02	.00	45.02	.35	.94	5737.19	2415.99
1733.200	75.00	46.40	44.40	34.00	3370.00	46.92	.00	46.92	.72	.92	8875.25	3971.24
1733.200	75.00	46.40	44.40	34.00	2350.00	46.52	.00	46.52	.46	.72	8046.90	3451.16
AD 1733.100	100.00	.00	.00	34.00	3370.00	46.92	.00	46.93	.72	.92	8883.88	3976.73
AD 1733.100	100.00	.00	.00	34.00	2350.00	46.52	.00	46.52	.46	.72	8056.94	3457.31
1732.400	1425.00	.00	.00	31.50	3370.00	47.01	.00	47.02	.61	.92	7894.90	4210.90
1732.400	1425.00	.00	.00	31.50	2350.00	46.58	.00	46.59	.43	.75	6664.19	3581.47
1732.300	100.00	.00	.00	31.50	3370.00	47.02	.00	47.03	.55	.91	8034.63	4550.55
1732.300	100.00	.00	.00	31.50	2350.00	46.59	.00	46.59	.38	.74	6798.93	3809.41
1732.200	85.00	44.20	41.10	31.50	3370.00	47.05	.00	47.05	.89	1.16	6673.25	3575.14
1732.200	85.00	44.20	41.10	31.50	2350.00	46.61	.00	46.61	.65	.97	5389.18	2919.61
AE 1732.100	320.00	.00	.00	31.50	3370.00	47.08	.00	47.10	2.77	1.87	4344.70	2024.11
AE 1732.100	320.00	.00	.00	31.50	2350.00	46.63	.00	46.65	2.19	1.61	3255.40	1589.36
AF 1731.400	1495.00	.00	.00	33.80	3370.00	47.35	.00	47.36	1.18	1.18	5897.05	3104.66
AF 1731.400	1495.00	.00	.00	33.80	2350.00	46.85	.00	46.85	.91	1.00	4860.63	2460.15
1731.300	100.00	.00	.00	33.80	3370.00	47.37	.00	47.37	1.15	1.17	5947.72	3137.35
1731.300	100.00	.00	.00	33.80	2350.00	46.86	.00	46.86	.89	.99	4903.13	2486.24
1731.200	35.00	44.40	43.00	33.80	3370.00	47.38	.00	47.38	1.14	1.16	5967.90	3150.40
1731.200	35.00	44.40	43.00	33.80	2350.00	46.86	.00	46.87	.89	.99	4916.32	2494.31
1731.100	65.00	.00	.00	33.80	3370.00	47.38	.00	47.39	.72	1.58	5967.52	3976.60
1731.100	65.00	.00	.00	33.80	2350.00	46.87	.00	46.88	.55	1.33	4916.27	3180.36
AG 1730.000	1310.00	.00	.00	33.40	3370.00	47.38	.00	47.96	36.75	6.11	551.64	555.94
AG 1730.000	1310.00	.00	.00	33.40	2350.00	46.90	.00	47.24	12.33	4.73	496.42	669.19
1729.400	720.00	.00	.00	33.00	3370.00	49.49	.00	49.62	4.45	3.76	2816.29	1598.36
1729.400	720.00	.00	.00	33.00	2350.00	47.95	.00	48.26	8.56	4.65	796.56	803.06
1729.300	100.00	.00	.00	33.00	3370.00	49.63	.00	49.70	7.51	2.95	2861.12	1230.02
1729.300	100.00	.00	.00	33.00	2350.00	48.20	.00	48.41	16.27	3.93	943.31	582.59
AN 1729.200	23.00	47.60	45.70	33.00	3370.00	49.65	.00	49.72	7.31	2.92	2910.55	1246.61
AN 1729.200	23.00	47.60	45.70	33.00	2350.00	48.21	.00	48.42	16.15	3.92	948.96	584.74

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
1729.100	60.00	.00	.00	33.00	3370.00	49.70	.00	49.76	7.41	2.87	2965.68	1238.21
1729.100	60.00	.00	.00	33.00	2350.00	48.32	.00	48.52	17.00	3.93	987.29	569.94
1728.300	1880.00	.00	.00	33.80	3370.00	50.31	.00	50.33	1.57	1.60	4178.89	2689.18
1728.300	1880.00	.00	.00	33.80	2350.00	49.24	.00	49.25	1.63	1.54	2868.64	1842.99
AI 1728.200	100.00	.00	.00	33.80	3240.00	50.33	.00	50.35	1.57	1.56	4140.35	2583.10
AI 1728.200	100.00	.00	.00	33.80	2250.00	49.25	.00	49.27	1.67	1.51	2816.37	1738.77
1728.100	24.00	47.60	46.10	33.80	3240.00	50.41	.00	50.42	1.48	1.52	4256.62	2659.89
1728.100	24.00	47.60	46.10	33.80	2250.00	49.32	.00	49.34	1.58	1.48	2897.04	1788.63
1728.000	65.00	.00	.00	33.80	3240.00	50.41	.00	50.43	1.35	1.50	4323.47	2785.70
1728.000	65.00	.00	.00	33.80	2250.00	49.33	.00	49.35	1.40	1.43	2963.07	1902.29

1727.900	1550.00	.00	.00	34.70	2250.00	49.55	.00	49.56	1.32	1.34	3217.54	1957.45
1726.800	1155.00	.00	.00	35.70	3240.00	50.82	.00	50.86	3.28	2.19	3289.08	1789.51
1726.800	1155.00	.00	.00	35.70	2250.00	49.76	.00	49.82	4.02	2.28	1805.64	1122.03
(K) 1726.700	100.00	.00	.00	35.70	3240.00	50.85	.00	50.89	3.12	2.31	3330.47	1834.14
1726.700	100.00	.00	.00	35.70	2250.00	49.80	.00	49.86	3.73	2.39	1835.98	1164.81
1726.600	18.00	46.80	45.60	35.70	3240.00	50.88	.00	50.92	2.99	2.27	3416.87	1872.52
1726.600	18.00	46.80	45.60	35.70	2250.00	49.80	.00	49.86	3.71	2.38	1841.39	1167.38
1726.500	50.00	.00	.00	35.70	3240.00	50.90	.00	50.94	3.03	2.12	3445.82	1861.25
1726.500	50.00	.00	.00	35.70	2250.00	49.83	.00	49.88	3.84	2.24	1859.68	1147.94
1726.300	960.00	.00	.00	35.10	3240.00	51.04	.00	51.05	.54	.90	6663.16	4422.58
1726.300	960.00	.00	.00	35.10	2250.00	49.99	.00	49.99	.53	.84	5030.17	3089.45
(AL) 1726.200	90.00	.00	.00	35.10	3240.00	51.04	.00	51.06	1.62	1.46	4672.49	2544.00
1726.200	90.00	.00	.00	35.10	2250.00	49.99	.00	50.01	2.11	1.56	3054.58	1550.78
1726.100	27.00	48.30	46.50	35.10	3240.00	51.09	.00	51.10	1.56	1.43	4744.52	2593.96
1726.100	27.00	48.30	46.50	35.10	2250.00	50.01	.00	50.04	2.07	1.55	3077.20	1563.12
1726.000	75.00	.00	.00	35.10	3240.00	51.10	.00	51.11	1.53	1.46	4752.40	2616.88
1726.000	75.00	.00	.00	35.10	2250.00	50.03	.00	50.05	2.00	1.56	3099.96	1592.19
(AM) 1725.000	2480.00	.00	.00	35.20	3240.00	51.32	.00	51.32	.50	.93	6618.16	4572.18
1725.000	2480.00	.00	.00	35.20	2250.00	50.26	.00	50.27	.47	.86	4877.55	3266.12
1724.600	500.00	.00	.00	35.20	3240.00	51.34	.00	51.34	.50	.93	6659.13	4603.15
1724.600	500.00	.00	.00	35.20	2250.00	50.29	.00	50.29	.47	.85	4908.27	3289.19
(AN) 1724.500	100.00	.00	.00	35.20	3240.00	51.34	.00	51.35	.50	1.03	6648.80	4563.18
1724.500	100.00	.00	.00	35.20	2250.00	50.29	.00	50.30	.48	.95	4889.44	3255.22

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*5	VCH	AREA	.01K
1724.400	21.00	47.10	45.80	35.20	3240.00	51.41	.00	51.41	.48	1.01	6784.23	4664.67
1724.400	21.00	47.10	45.80	35.20	2250.00	50.34	.00	50.34	.46	.94	4966.34	3312.41
1724.300	60.00	.00	.00	35.20	3240.00	51.41	.00	51.42	.48	.91	6698.81	4691.80
1724.300	60.00	.00	.00	35.20	2250.00	50.34	.00	50.35	.45	.84	4982.65	3348.95
(AO) 1724.000	1780.00	.00	.00	36.60	3240.00	51.48	.00	51.49	.30	.69	8713.26	5917.48
1724.000	1780.00	.00	.00	36.60	2250.00	50.41	.00	50.41	.29	.64	6585.27	4160.01
1723.600	250.00	.00	.00	36.60	3240.00	51.50	.00	51.50	.48	.87	7001.63	4681.84
1723.600	250.00	.00	.00	36.60	2250.00	50.42	.00	50.43	.48	.82	5099.91	3244.85
(AP) 1723.500	100.00	.00	.00	36.60	3240.00	51.50	.00	51.50	.48	.87	7005.08	4684.54
1723.500	100.00	.00	.00	36.60	2250.00	50.43	.00	50.43	.48	.82	5102.78	3246.88
1723.400	30.00	47.10	45.90	36.60	3240.00	51.56	.00	51.56	.46	.85	7129.62	4781.89
1723.400	30.00	47.10	45.90	36.60	2250.00	50.47	.00	50.47	.46	.81	5182.02	3302.83
1723.300	50.00	.00	.00	36.60	3240.00	51.56	.00	51.56	.46	.85	7124.80	4778.12
1723.300	50.00	.00	.00	36.60	2250.00	50.47	.00	50.48	.46	.81	5178.30	3300.20
(AQ) 1723.000	2530.00	.00	.00	37.50	3240.00	51.76	.00	51.79	2.34	1.76	2599.25	2117.14
1723.000	2530.00	.00	.00	37.50	2250.00	50.68	.00	50.71	2.53	1.70	1872.90	1415.53

1722.300	480.00	.00	.00	37.50	2250.00	50.80	.00	50.82	2.31	1.64	1941.03	1479.30
(AR) 1722.700	100.00	.00	.00	37.70	3240.00	51.89	.00	51.92	1.94	1.72	2757.79	2325.51
1722.700	100.00	.00	.00	37.70	2250.00	50.82	.00	50.85	2.01	1.64	2011.32	1587.04
1722.600	20.00	48.30	46.80	37.70	3240.00	51.93	.00	51.96	1.89	1.70	2792.44	2359.20
1722.600	20.00	48.30	46.80	37.70	2250.00	50.85	.00	50.88	1.96	1.62	2031.00	1606.19
1722.500	50.00	.00	.00	37.50	3240.00	51.94	.00	51.97	2.06	1.67	2744.91	2256.47
1722.500	50.00	.00	.00	37.50	2250.00	50.86	.00	50.89	2.20	1.61	1981.33	1517.49
1722.300	2575.00	.00	.00	38.50	3240.00	52.34	.00	52.36	1.06	1.25	3808.54	3140.63
1722.300	2575.00	.00	.00	38.50	2250.00	51.29	.00	51.31	1.15	1.23	2767.87	2098.85
(AS) 1722.200	100.00	.00	.00	38.50	3240.00	52.36	.00	52.37	1.12	1.22	3773.91	3055.26
1722.200	100.00	.00	.00	38.50	2250.00	51.30	.00	51.32	1.24	1.19	2731.25	2023.79
1722.100	31.00	50.90	49.50	38.50	3240.00	52.44	.00	52.45	1.06	1.19	3864.80	3149.02
1722.100	31.00	50.90	49.50	38.50	2250.00	51.39	.00	51.41	1.15	1.15	2813.84	2101.51
1722.000	70.00	.00	.00	38.50	3240.00	52.44	.00	52.46	.99	1.23	3918.08	3254.85
1722.000	70.00	.00	.00	38.50	2250.00	51.40	.00	51.41	1.05	1.19	2867.72	2194.19
1721.500	1450.00	.00	.00	38.60	3240.00	52.53	.00	52.53	.33	.69	7457.11	5605.46
1721.500	1450.00	.00	.00	38.60	2250.00	51.50	.00	51.50	.41	.72	5068.57	3506.19

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*5	VCH	AREA	.01K
1721.300	1450.00	.00	.00	38.80	3240.00	52.60	.00	52.61	1.22	1.29	4449.62	2939.18
1721.300	1450.00	.00	.00	38.80	2250.00	51.58	.00	51.60	1.57	1.37	2677.13	1795.55
1721.200	100.00	.00	.00	38.80	3240.00	52.61	.00	52.62	1.23	1.34	4481.79	2922.69
1721.200	100.00	.00	.00	38.80	2250.00	51.60	.00	51.61	1.64	1.45	2656.25	1758.08
1721.100	25.00	50.40	48.90	38.80	3240.00	52.70	.00	52.71	1.11	1.28	4721.32	3081.32
1721.100	25.00	50.40	48.90	38.80	2250.00	51.68	.00	51.69	1.49	1.39	2784.54	1843.83
1721.000	110.00	.00	.00	38.80	3240.00	52.71	.00	52.72	.72	1.01	5758.99	3809.39
1721.000	110.00	.00	.00	38.80	2250.00	51.70	.00	51.71	.94	1.08	3443.87	2316.45
(A) 1718.000	4550.00	.00	.00	39.50	3100.00	53.35	.00	53.52	8.45	3.43	1035.26	1066.19
1718.000	4550.00	.00	.00	39.50	2160.00	52.48	.00	52.60	6.15	2.76	846.09	870.95
(B) 1717.000	2270.00	.00	.00	39.90	3100.00	54.20	.00	54.22	1.50	1.45	5182.36	2533.72
1717.000	2270.00	.00	.00	39.90	2160.00	53.40	.00	52.43	2.35	1.70	2281.92	1408.21
(C) 1716.300	2460.00	.00	.00	40.20	2770.00	54.63	.00	54.65	2.12	1.92	2749.61	1901.98
1716.300	2460.00	.00	.00	40.20	2000.00	53.96	.00	53.99	2.24	1.88	2076.46	1336.92
1716.200	100.00	.00	.00	40.20	2770.00	54.65	.00	54.67	2.00	2.19	2775.42	1956.64
1716.200	100.00	.00	.00	40.20	2000.00	53.98	.00	54.01	2.07	2.14	2105.05	1390.65
1716.100	20.00	50.50	49.20	40.20	2770.00	54.86	.00	54.88	1.64	2.00	3010.85	2165.24
1716.100	20.00	50.50	49.20	40.20	2000.00	54.16	.00	54.18	1.71	1.97	2280.32	1528.70
1716.000	80.00	.00	.00	40.20	2770.00	54.87	.00	54.89	1.66	1.73	3027.54	2148.36
1716.000	80.00	.00	.00	40.20	2000.00	54.18	.00	54.20	1.76	1.69	2295.56	1509.19
(D) 1715.800	3280.00	.00	.00	40.70	2770.00	55.21	.00	55.22	.67	1.06	4554.99	3386.30
1715.800	3280.00	.00	.00	40.70	2000.00	54.52	.00	54.52	.65	.99	3558.22	2476.60

1715.700	150.00	.00	.00	40.70	2000.00	54.53	.00	54.53	.62	1.19	3584.17	2532.56
1715.600	21.00	51.50	50.20	40.70	2770.00	55.32	.00	55.33	.59	1.21	4737.43	3593.04
1715.600	21.00	51.50	50.20	40.70	2000.00	54.60	.00	54.61	.58	1.15	3686.32	2622.30
1715.500	75.00	.00	.00	40.70	2770.00	55.32	.00	55.33	.61	1.01	4733.40	3556.95
1715.500	75.00	.00	.00	40.70	2000.00	54.61	.00	54.61	.60	.95	3683.08	2586.24
1715.300	1510.00	.00	.00	42.90	2770.00	55.40	.00	55.41	.49	.96	5228.06	3957.34
1715.300	1510.00	.00	.00	42.90	2000.00	54.63	.00	54.69	.48	.81	4112.66	2981.11
Ⓔ 1715.200	170.00	.00	.00	42.90	2770.00	55.41	.00	55.42	.48	1.02	5230.14	3991.33
Ⓔ 1715.200	170.00	.00	.00	42.90	2000.00	54.63	.00	54.70	.47	.97	4114.88	2915.73
1715.100	25.00	52.80	51.40	42.90	2770.00	55.58	.00	55.59	.42	.96	5574.48	4295.04
1715.100	25.00	52.80	51.40	42.90	2000.00	54.82	.00	54.83	.42	.92	4301.59	3096.68

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SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
1715.000	110.00	.00	.00	42.90	2770.00	55.59	.00	55.59	.42	.81	5578.78	4269.21
1715.000	110.00	.00	.00	42.90	2000.00	54.83	.00	54.83	.42	.76	4306.40	3070.29
Ⓕ 1714.000	1550.00	.00	.00	44.00	2770.00	55.66	.00	55.66	.45	.70	6357.06	4124.62
Ⓕ 1714.000	1550.00	.00	.00	44.00	2000.00	54.90	.00	54.91	.55	.73	4596.08	2701.49
Ⓖ 1713.300	2320.00	.00	.00	45.50	2440.00	55.85	.00	55.88	3.44	1.72	2567.22	1315.33
Ⓖ 1713.300	2320.00	.00	.00	45.50	1800.00	55.15	.00	55.19	5.38	2.02	1566.53	775.68
1713.200	150.00	.00	.00	47.00	2440.00	55.92	.00	55.94	4.45	1.36	2538.73	1156.27
1713.200	150.00	.00	.00	47.00	1800.00	54.65	.00	56.20	336.89	10.00	180.04	98.07
* 1713.100	38.00	56.70	54.60	47.00	2440.00	57.21	.00	57.21	.71	.62	4884.68	2891.18
* 1713.100	38.00	56.70	54.60	47.00	1800.00	56.88	.00	56.88	.58	.54	4228.12	2359.15
1713.000	100.00	.00	.00	45.50	2440.00	57.22	.00	57.23	1.79	1.38	3613.80	1824.34
1713.000	100.00	.00	.00	45.50	1800.00	56.88	.00	56.90	1.63	1.29	2852.70	1409.71
Ⓗ 1712.800	2470.00	.00	.00	47.10	2440.00	57.59	.00	57.60	1.57	1.13	4249.32	1946.80
Ⓗ 1712.800	2470.00	.00	.00	47.10	1800.00	57.24	.00	57.25	1.55	1.08	3231.00	1444.31
1712.700	100.00	.00	.00	47.10	2440.00	57.61	.00	57.62	1.81	1.21	4118.54	1813.59
1712.700	100.00	.00	.00	47.10	1800.00	57.26	.00	57.27	1.86	1.18	3089.14	1320.61
1712.600	30.00	56.50	55.30	47.10	2440.00	57.95	.00	57.95	1.01	.93	5320.90	2429.99
1712.600	30.00	56.50	55.30	47.10	1800.00	57.57	.00	57.57	1.05	.92	4009.27	1759.67
1712.500	50.00	.00	.00	47.10	2440.00	57.95	.00	57.96	.87	.87	5515.76	2611.55
1712.500	50.00	.00	.00	47.10	1800.00	57.57	.00	57.58	.88	.84	4202.72	1923.17
Ⓘ 1712.300	2120.00	.00	.00	49.60	2440.00	57.46	.00	59.13	231.68	10.37	235.30	160.31
Ⓘ 1712.300	2120.00	.00	.00	49.60	1800.00	57.62	.00	58.48	115.89	7.41	245.85	167.20
1712.200	100.00	.00	.00	49.60	2440.00	59.79	.00	59.85	8.31	2.98	1687.15	846.23
1712.200	100.00	.00	.00	49.60	1800.00	58.91	.00	59.07	19.22	4.23	852.16	410.57
1712.100	22.00	58.90	57.20	49.60	2440.00	60.01	.00	60.05	6.07	2.59	1922.62	990.39
1712.100	22.00	58.90	57.20	49.60	1800.00	59.56	.00	59.61	6.47	2.59	1447.04	707.62
1712.000	50.00	.00	.00	49.60	2440.00	60.05	.00	60.09	6.19	2.19	1962.74	980.42
1712.000	50.00	.00	.00	49.60	1800.00	59.61	.00	59.64	6.64	2.17	1491.09	698.73



1711.800	1000.00	.00	.00	48.30	1800.00	59.87	.00	59.89	2.43	1.61	1680.20	1153.80
1711.700	100.00	.00	.00	48.30	2440.00	60.35	.00	60.38	2.84	2.03	1943.24	1448.40
1711.700	100.00	.00	.00	48.30	1800.00	59.89	.00	59.91	2.25	1.76	1687.50	1200.21
1711.600	20.00	56.40	55.10	48.30	2440.00	60.44	.00	60.47	2.63	1.97	1998.15	1504.09
1711.600	20.00	56.40	55.10	48.30	1800.00	59.96	.00	59.98	2.13	1.72	1727.12	1234.06

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	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*5	VCH	AREA	.01K
	1711.500	60.00	.00	.00	48.30	2440.00	60.46	.00	60.49	2.75	1.79	2007.89	1469.95
	1711.500	60.00	.00	.00	48.30	1800.00	59.97	.00	60.00	2.25	1.56	1734.18	1199.26
(K)	1711.300	3000.00	.00	.00	49.40	2440.00	61.15	.00	61.16	1.87	1.33	2812.68	1784.53
	1711.300	3000.00	.00	.00	49.40	1800.00	60.61	.00	60.62	1.89	1.28	2216.52	1307.97
	1711.200	100.00	.00	.00	49.40	2440.00	61.17	.00	61.18	1.74	1.51	2838.79	1848.75
	1711.200	100.00	.00	.00	49.40	1800.00	60.62	.00	60.64	1.72	1.45	2248.06	1370.66
	1711.100	18.00	58.10	56.80	49.40	2440.00	61.25	.00	61.26	1.60	1.46	2931.53	1928.39
	1711.100	18.00	58.10	56.80	49.40	1800.00	60.69	.00	60.70	1.60	1.40	2318.02	1423.53
	1711.000	85.00	.00	.00	49.40	2440.00	61.26	.00	61.27	1.66	1.26	2940.14	1893.21
	1711.000	85.00	.00	.00	49.40	1800.00	60.70	.00	60.71	1.68	1.21	2326.26	1390.26
(L)	1710.300	4000.00	.00	.00	51.40	2030.00	61.79	.00	61.79	1.17	1.00	3065.39	1872.93
	1710.300	4000.00	.00	.00	51.40	1500.00	61.25	.00	61.25	1.23	.97	2434.00	1352.17
	1710.200	100.00	.00	.00	51.40	2030.00	61.80	.00	61.81	1.16	1.00	3082.61	1888.04
	1710.200	100.00	.00	.00	51.40	1500.00	61.26	.00	61.26	1.21	.97	2450.83	1365.16
	1710.100	26.00	59.90	58.40	51.40	2030.00	61.93	.00	61.93	1.00	.94	3242.68	2030.56
	1710.100	26.00	59.90	58.40	51.40	1500.00	61.36	.00	61.37	1.05	.91	2574.46	1462.20
	1710.000	60.00	.00	.00	51.40	2030.00	61.93	.00	61.94	1.00	.94	3241.91	2029.86
	1710.000	60.00	.00	.00	51.40	1500.00	61.37	.00	61.37	1.05	.91	2574.67	1462.37
(M)	1709.800	1650.00	.00	.00	51.10	2030.00	62.16	.00	62.18	2.43	1.57	2245.42	1301.13
	1709.800	1650.00	.00	.00	51.10	1500.00	61.61	.00	61.63	2.54	1.53	1662.62	942.09
	1709.700	60.00	.00	.00	51.10	2030.00	62.18	.00	62.20	3.55	1.85	2049.84	1077.48
	1709.700	60.00	.00	.00	51.10	1500.00	61.63	.00	61.66	4.14	1.91	1465.43	736.88
	1709.600	22.00	59.70	57.90	51.10	2030.00	62.22	.00	62.25	3.33	1.80	2106.87	1112.43
	1709.600	22.00	59.70	57.90	51.10	1500.00	61.66	.00	61.69	3.93	1.86	1500.77	756.49
	1709.500	60.00	.00	.00	51.10	2030.00	62.24	.00	62.27	3.24	1.77	2131.23	1127.46
	1709.500	60.00	.00	.00	51.10	1500.00	61.68	.00	61.71	3.80	1.83	1524.47	769.72
(N)	1709.300	1400.00	.00	.00	51.80	2030.00	62.50	.00	62.51	1.15	1.00	3343.96	1889.01
	1709.300	1400.00	.00	.00	51.80	1500.00	61.97	.00	61.98	1.26	1.00	2376.51	1334.43
	1709.200	130.00	.00	.00	51.80	2030.00	62.52	.00	62.53	1.09	1.10	3391.33	1947.21
	1709.200	130.00	.00	.00	51.80	1500.00	61.99	.00	62.00	1.17	1.10	2415.57	1385.05
	1709.100	27.00	62.50	61.20	51.80	2030.00	62.65	.00	62.65	.92	1.03	3665.45	2111.43
	1709.100	27.00	62.50	61.20	51.80	1500.00	62.21	.00	62.22	.88	.97	2781.95	1595.72
	1709.000	80.00	.00	.00	51.80	2030.00	62.65	.00	62.66	.96	.93	3598.98	2068.97
	1709.000	80.00	.00	.00	51.80	1500.00	62.22	.00	62.22	.92	.87	2769.85	1568.10

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
⊙	1708.000	3040.00	.00	.00	51.80	2030.00	62.94	.00	62.95	.97	1.30	3411.78	2057.22
	1708.000	3040.00	.00	.00	51.90	1500.00	62.49	.00	62.50	.92	1.22	2534.87	1560.34
⊙	1707.500	1780.00	.00	.00	52.50	2030.00	63.07	.00	63.07	.49	.91	4499.95	2892.13
	1707.500	1780.00	.00	.00	52.50	1500.00	62.61	.00	62.62	.44	.93	3642.96	2262.72
⊙	1707.000	3650.00	.00	.00	53.10	1620.00	63.34	.00	63.41	3.13	2.23	933.12	916.16
	1707.000	3650.00	.00	.00	53.10	1200.00	62.85	.00	62.90	2.27	1.85	649.10	797.30
	1706.800	130.00	.00	.00	53.10	1620.00	63.37	.00	63.46	3.29	2.30	705.48	893.35
	1706.800	130.00	.00	.00	53.10	1200.00	62.88	.00	62.93	2.24	1.84	651.97	802.12
	1706.700	200.00	66.40	63.40	53.10	1620.00	63.42	.00	63.50	3.22	2.28	711.17	903.20
	1706.700	200.00	66.40	63.40	53.10	1200.00	62.88	.00	62.93	2.23	1.84	652.79	803.50
⊙	1706.500	2950.00	.00	.00	53.60	1620.00	64.32	.00	64.37	2.70	2.26	1661.21	985.89
	1706.500	2950.00	.00	.00	53.60	1200.00	63.67	.00	63.75	3.43	2.40	798.91	647.88
	1706.400	100.00	.00	.00	53.60	1620.00	64.34	.00	64.40	2.44	2.58	1710.18	1036.05
	1706.400	100.00	.00	.00	53.60	1200.00	63.70	.00	63.79	3.02	2.74	819.22	690.59
	1706.300	20.00	63.60	62.40	53.60	1620.00	64.70	.00	64.73	1.48	2.06	2329.37	1330.56
	1706.300	20.00	63.60	62.40	53.60	1200.00	64.08	.00	64.13	1.96	2.27	1279.69	856.92
	1706.200	100.00	.00	.00	53.60	1620.00	64.72	.00	64.75	1.50	1.74	2364.21	1322.97
	1706.200	100.00	.00	.00	53.60	1200.00	64.11	.00	64.15	2.03	1.92	1321.61	842.84
⊙	1706.000	2900.00	.00	.00	54.20	1620.00	64.96	.00	64.97	.49	.94	3444.86	2314.90
	1706.000	2900.00	.00	.00	54.20	1200.00	64.40	.00	64.41	.53	.93	2471.89	1651.31
⊙	1705.700	2810.00	.00	.00	54.70	1620.00	65.11	.00	65.12	.59	1.09	3418.93	2105.44
	1705.700	2810.00	.00	.00	54.70	1200.00	64.57	.00	64.58	.66	1.11	2477.07	1480.40
⊙	1705.500	1100.00	.00	.00	53.10	1620.00	65.19	.00	65.21	1.27	1.48	1987.76	1435.69
	1705.500	1100.00	.00	.00	53.10	1200.00	64.66	.00	64.68	1.15	1.36	1457.85	1117.45
	1705.400	150.00	.00	.00	53.10	1620.00	65.14	.00	65.35	7.61	3.74	433.70	587.36
	1705.400	150.00	.00	.00	53.10	1200.00	64.63	.00	64.77	5.01	2.96	405.75	536.09
	1705.300	20.00	65.80	65.80	53.10	1620.00	64.68	.00	65.90	303.25	8.88	182.35	93.03
	1705.300	20.00	65.80	65.80	53.10	1200.00	64.39	.00	65.07	166.39	6.58	182.35	93.03
	1705.200	5.00	65.80	65.80	53.10	1620.00	64.83	.00	66.06	303.25	8.88	182.35	93.03
	1705.200	5.00	65.80	65.80	53.10	1200.00	64.48	.00	65.15	166.39	6.58	182.35	93.03
	1705.100	20.00	.00	.00	53.10	1620.00	66.26	.00	66.43	8.97	3.30	491.40	540.89
	1705.100	20.00	.00	.00	53.10	1200.00	65.23	.00	65.35	7.18	2.78	432.18	447.89
	1705.000	100.00	.00	.00	53.10	1620.00	66.48	.00	66.48	.16	.57	6477.64	4038.44
	1705.000	100.00	.00	.00	53.10	1200.00	65.39	.00	65.40	.36	.80	3399.34	1996.56

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
⊙	1704.900	1800.00	.00	.00	55.30	1350.00	66.51	.00	66.52	.46	1.08	3960.47	1999.16
	1704.900	1800.00	.00	.00	55.30	1020.00	65.47	.00	65.51	1.25	1.65	855.36	911.66

1704.700	3030.00	.00	.00	55.10	1020.00	65.75	.00	65.76	.59	1.04	1844.55	1331.45
1704.500	100.00	.00	.00	55.10	1350.00	66.64	.00	66.65	.40	1.01	2964.29	2141.80
1704.600	100.00	.00	.00	55.10	1020.00	65.75	.00	65.76	.56	1.13	1853.35	1359.43
1704.500	20.00	54.90	63.60	55.10	1350.00	66.66	.00	66.67	.39	1.00	3005.02	2170.75
1704.500	20.00	64.90	63.60	55.10	1020.00	65.77	.00	65.78	.55	1.12	1869.61	1370.90
1704.400	100.00	.00	.00	55.10	1350.00	66.66	.00	66.67	.39	.93	3000.01	2152.29
1704.400	100.00	.00	.00	55.10	1020.00	65.78	.00	65.79	.57	1.03	1869.61	1349.32
1704.300	1460.00	.00	.00	56.10	1350.00	66.74	.00	66.76	.96	1.34	2097.84	1376.24
1704.300	1460.00	.00	.00	56.10	1020.00	65.89	.00	65.92	1.58	1.58	1242.51	810.61
1704.200	120.00	.00	.00	56.10	1350.00	66.76	.00	66.77	1.29	1.52	1995.74	1187.44
1704.200	120.00	.00	.00	56.10	1020.00	65.86	.00	66.02	6.62	3.15	323.52	396.56
1704.100	33.00	67.10	65.50	56.10	1350.00	66.79	.00	66.81	1.21	1.48	2049.61	1225.85
1704.100	33.00	67.10	65.50	56.10	1020.00	66.13	.00	66.28	5.77	3.03	337.07	424.63
1704.000	75.00	.00	.00	56.10	1350.00	66.80	.00	66.81	.90	1.30	2162.37	1424.15
1704.000	75.00	.00	.00	56.10	1020.00	66.31	.00	66.33	.92	1.26	1646.21	1060.96
(AW) 1703.000	1870.00	.00	.00	56.50	1350.00	67.03	.00	67.36	17.81	4.58	294.46	319.90
1703.000	1870.00	.00	.00	56.50	1020.00	66.60	.00	66.82	12.62	3.76	271.52	287.10
(AX) 1702.500	1440.00	.00	.00	56.60	1350.00	68.55	.00	68.69	5.52	3.04	489.90	574.69
1702.500	1440.00	.00	.00	56.60	1020.00	67.73	.00	67.84	4.45	2.62	389.26	483.68
(AY) 1702.000	800.00	.00	.00	56.90	1350.00	68.98	.00	69.12	5.19	2.98	452.32	592.33
1702.000	800.00	.00	.00	56.90	1020.00	68.08	.00	68.18	4.02	2.56	398.22	508.95
(AZ) 1701.700	1210.00	.00	.00	55.80	1350.00	69.20	.00	69.20	.21	.71	5200.49	2938.15
1701.700	1210.00	.00	.00	55.80	1020.00	68.29	.00	68.30	.41	.92	2602.44	1585.28
1701.600	100.00	.00	.00	55.80	1350.00	69.20	.00	69.20	.21	.71	5219.95	2948.74
1701.600	100.00	.00	.00	55.80	1020.00	68.30	.00	68.31	.41	.92	2630.56	1600.66
1701.500	25.00	68.50	65.60	55.80	1350.00	69.24	.00	69.24	.20	.59	5384.50	3039.18
1701.500	25.00	68.50	65.60	55.80	1020.00	68.35	.00	68.40	1.79	1.93	528.79	762.46
1701.400	50.00	.00	.00	55.80	1350.00	69.24	.00	69.24	.20	.69	5378.21	3035.70
1701.400	50.00	.00	.00	55.80	1020.00	68.42	.00	68.42	.35	.86	2853.52	1721.25
(BA) 1701.000	1825.00	.00	.00	58.40	1080.00	69.28	.00	69.28	.30	.64	3722.16	1984.65
1701.000	1825.00	.00	.00	58.40	830.00	68.49	.00	68.49	.58	.85	1777.97	1089.75

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100-YR. WATER SURFACE PR

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1766.000	9040.00	13.00	.00	.00	.00	6893.82	.00
1766.000	7100.00	12.65	-.35	.00	.05	5893.94	.00
1765.400	9040.00	13.46	.00	.46	.00	7700.28	3140.00
1765.400	7100.00	13.11	-.36	.46	.00	4829.71	3140.00

1765.200	9040.00	13.58	.00	.11	.00	8691.07	18.00
1765.200	7100.00	13.22	-.36	.11	.00	5770.71	18.00
1765.100	9040.00	13.59	.00	.01	.00	8688.77	50.00
1765.100	7100.00	13.22	-.36	.01	.00	5767.87	50.00
1764.600	9040.00	14.02	.00	.43	.00	3627.69	3400.00
1764.600	7100.00	13.63	-.39	.41	.00	3332.53	3400.00
1764.500	9040.00	14.03	.00	.01	.00	3698.12	75.00
1764.500	7100.00	13.64	-.39	.01	.00	3337.21	75.00
1764.400	9040.00	14.01	.00	-.02	.00	5635.24	10.00
1764.400	7100.00	13.61	-.40	-.03	.00	4906.61	10.00
1764.300	9040.00	14.04	.00	.02	.00	5676.97	50.00
1764.300	7100.00	13.64	-.39	.03	.00	5003.25	50.00
1764.200	9040.00	14.09	.00	.05	.00	4141.51	10.00
1764.200	7100.00	13.73	-.36	.09	.00	3336.70	10.00
1764.100	9040.00	14.10	.00	.01	.00	4262.21	75.00
1764.100	7100.00	13.74	-.36	.01	.00	3348.35	75.00
1764.000	8650.00	14.15	.00	.04	.00	3842.95	300.00
1764.000	6800.00	13.78	-.37	.04	.00	3304.34	300.00
1763.900	6300.00	14.58	.00	.43	.00	2491.56	3180.00
1763.900	4990.00	14.18	-.40	.40	.00	2490.18	3180.00
1763.700	6300.00	14.66	.00	.08	.00	2491.13	600.00
1763.700	4990.00	14.25	-.41	.08	.00	2325.09	600.00
1763.600	6300.00	14.68	.00	.01	.00	2964.48	90.00
1763.600	4990.00	14.27	-.41	.01	.00	2731.83	90.00
1763.500	6300.00	14.69	.00	.01	.00	2964.58	19.00
1763.500	4990.00	14.27	-.42	.00	.00	2743.46	19.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1763.400	6300.00	14.70	.00	.02	.00	2964.70	90.00
1763.400	4990.00	14.29	-.42	.02	.00	2787.41	90.00
1763.200	6300.00	14.75	.00	.04	.00	2964.25	300.00
1763.200	4990.00	14.33	-.42	.04	.00	2610.43	300.00
1763.000	6300.00	14.91	.00	.16	.00	2963.81	1000.00
1763.000	4990.00	14.48	-.43	.15	.00	2426.14	1000.00
1762.800	6300.00	15.40	.00	.49	.00	3074.71	4000.00
1762.800	4990.00	14.95	-.45	.47	.00	2757.91	4000.00
1762.500	6300.00	15.46	.00	.07	.00	2980.70	770.00
1762.500	4990.00	15.01	-.45	.06	.00	2661.52	770.00
1762.400	6300.00	15.47	.00	.01	.00	2987.34	100.00
1762.400	4990.00	15.02	-.45	.01	.00	2667.81	100.00
1762.300	6300.00	15.55	.00	.07	.00	3046.27	19.00

1762.200	6300.00	15.56	.00	.01	.00	3046.27	90.00
1762.200	4990.00	15.09	-.46	.01	.00	2720.27	90.00
1762.000	6300.00	15.58	.00	.03	.00	2994.74	300.00
1762.000	4990.00	15.12	-.46	.03	.00	2667.95	300.00
1761.000	6090.00	16.36	.00	.78	.00	1616.54	4070.00
1761.000	4830.00	15.87	-.50	.75	.00	645.62	4070.00
1760.800	6090.00	17.38	.00	1.52	.00	2116.48	1530.00
1760.800	4830.00	17.26	-.63	1.39	.00	1210.79	1530.00
1760.400	6090.00	18.83	.00	.94	.00	2248.83	2140.00
1760.400	4830.00	18.24	-.59	.98	.00	1262.65	2140.00
1760.300	6090.00	18.86	.00	.04	.00	2373.13	100.00
1760.300	4830.00	18.28	-.59	.04	.00	1288.63	100.00
1760.200	6090.00	18.74	.00	-.12	.00	102.99	21.00
1760.200	4830.00	18.33	-.41	.06	.00	99.57	21.00
1760.100	6090.00	18.88	.00	.14	.00	104.15	80.00
1760.100	4830.00	18.43	-.45	.09	.00	100.36	80.00
1759.000	6090.00	23.73	.00	4.85	.00	155.65	4390.00
1759.000	4830.00	22.35	-1.38	3.93	.00	145.21	4390.00
1758.000	6090.00	25.80	.00	2.07	.00	172.63	3170.00
1758.000	4830.00	24.26	-1.54	1.91	.00	161.62	3170.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1757.800	6090.00	26.08	.00	.27	.00	2769.09	100.00
1757.800	4830.00	24.49	-1.59	.23	.00	2231.83	100.00
1757.600	6090.00	26.15	.00	.07	.00	2592.21	2660.00
1757.600	4830.00	24.61	-1.54	.12	.00	2065.83	2660.00
1757.500	6090.00	26.15	.00	.00	.00	2592.93	60.00
1757.500	4830.00	24.62	-1.54	.00	.00	2067.11	60.00
1757.400	6090.00	26.27	.00	.12	.00	2012.27	16.00
1757.400	4830.00	24.71	-1.55	.10	.00	1559.94	16.00
1757.300	6090.00	26.27	.00	.00	.00	2010.43	50.00
1757.300	4830.00	24.72	-1.55	.00	.00	1559.09	50.00
1756.500	6090.00	26.39	.00	.12	.00	1858.09	1660.00
1756.500	4830.00	24.91	-1.48	.20	.00	1436.82	1660.00
1756.000	6090.00	26.51	.00	.12	.00	1833.03	1080.00
1756.000	4830.00	25.13	-1.38	.22	.00	1438.04	1080.00
1755.900	6090.00	26.55	.00	.04	.00	1812.20	300.00
1755.900	4830.00	25.20	-1.35	.06	.00	1435.90	300.00
1755.500	5750.00	26.91	.00	.36	.00	986.29	2000.00
1755.500	4560.00	25.79	-1.12	.59	.00	275.79	2000.00

1754.800	4190.00	27.95	.00	.18	.00	802.96	800.00
1754.800	3230.00	26.94	-1.01	.21	.00	793.16	800.00
1754.700	4190.00	27.97	.00	.02	.00	803.13	80.00
1754.700	3230.00	26.96	-1.00	.02	.00	792.36	80.00
1754.500	4190.00	28.52	.00	.55	.00	808.49	18.00
1754.600	3230.00	27.34	-1.17	.38	.00	797.06	18.00
1754.500	4190.00	28.52	.00	.01	.00	808.56	40.00
1754.500	3230.00	27.35	-1.17	.01	.00	797.15	40.00
1754.400	4190.00	28.64	.00	.12	.00	975.05	730.00
1754.400	3230.00	27.50	-1.14	.15	.00	936.58	730.00
1754.300	4190.00	28.65	.00	.01	.00	974.67	80.00
1754.300	3230.00	27.52	-1.13	.02	.00	967.73	80.00
1754.200	4190.00	29.08	.00	.43	.00	977.36	13.00
1754.200	3230.00	27.82	-1.26	.30	.00	969.59	13.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1754.100	4190.00	29.09	.00	.01	.00	977.35	50.00
1754.100	3230.00	27.84	-1.26	.01	.00	969.66	50.00
1754.000	4190.00	29.15	.00	.06	.00	1374.55	480.00
1754.000	3230.00	27.93	-1.23	.09	.00	1344.45	480.00
1753.500	4190.00	29.41	.00	.25	.00	1412.35	1880.00
1753.500	3230.00	28.32	-1.09	.39	.00	1152.46	1880.00
1753.400	4190.00	29.42	.00	.02	.00	1417.98	100.00
1753.400	3230.00	28.34	-1.08	.02	.00	1157.55	100.00
1753.300	4190.00	29.46	.00	.04	.00	1429.80	28.00
1753.300	3230.00	28.36	-1.10	.02	.00	1163.29	28.00
1753.200	4190.00	29.47	.00	.01	.00	1429.52	50.00
1753.200	3230.00	28.37	-1.09	.01	.00	1166.04	50.00
1753.000	4190.00	29.52	.00	.05	.00	720.30	300.00
1753.000	3230.00	28.44	-1.07	.07	.00	718.34	300.00
1752.300	4190.00	29.69	.00	.17	.00	1760.80	1100.00
1752.300	3230.00	28.67	-1.01	.23	.00	1734.89	1100.00
1752.200	4190.00	29.87	.00	.18	.00	750.08	1410.00
1752.200	3230.00	28.92	-.95	.25	.00	743.46	1410.00
1752.100	4190.00	29.92	.00	.05	.00	165.07	250.00
1752.100	3230.00	28.98	-.94	.06	.00	150.26	250.00
1752.000	4190.00	30.21	.00	.29	.00	635.32	300.00
1752.000	3230.00	29.19	-1.01	.21	.00	548.08	300.00
1751.800	4190.00	30.38	.00	.17	.00	3281.58	850.00
1751.800	3230.00	29.40	-.98	.21	.00	2633.58	850.00
1751.700	4190.00	30.38	.00	.01	.00	3289.87	100.00

1751.600	4190.00	30.62	.90	.24	.00	3448.67	18.00
1751.600	3230.00	29.60	-1.03	.19	.00	2768.57	18.00
1751.500	4190.00	30.62	.00	.00	.00	3381.21	50.00
1751.500	3230.00	29.60	-1.03	.00	.00	2700.53	50.00
1751.300	4190.00	30.71	.00	.09	.00	2792.26	1530.00
1751.300	3230.00	29.74	-.97	-.14	.00	2305.03	1530.00
1751.200	4040.00	30.72	.00	.01	.00	2799.04	100.00
1751.200	3120.00	29.75	-.97	.01	.00	2312.31	100.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1751.100	4040.00	30.91	.00	.19	.00	2894.06	36.00
1751.100	3120.00	29.92	-.99	.17	.00	2413.90	36.00
1751.000	4040.00	30.91	.00	.00	.00	2893.53	80.00
1751.000	3120.00	29.93	-.99	.01	.00	2413.13	80.00
1750.800	4040.00	31.07	.00	.16	.00	1546.81	1820.00
1750.800	3120.00	30.14	-.93	.22	.00	822.30	1820.00
1750.700	4040.00	31.09	.00	.02	.00	1131.55	100.00
1750.700	3120.00	30.17	-.92	.03	.00	935.64	100.00
1750.600	4040.00	31.40	.00	.31	.00	162.00	22.00
1750.600	3120.00	30.34	-1.06	.18	.00	162.00	22.00
1750.500	4040.00	31.49	.00	.09	.00	1319.68	50.00
1750.500	3120.00	30.40	-1.09	.06	.00	1031.31	50.00
1750.400	4040.00	31.56	.00	.07	.00	1416.76	450.00
1750.400	3120.00	30.49	-1.07	.09	.00	896.26	450.00
1750.300	4040.00	31.68	.00	.12	.00	2667.75	500.00
1750.300	3120.00	30.64	-1.04	.16	.00	1738.72	500.00
1750.200	4040.00	31.70	.00	.02	.00	2672.42	80.00
1750.200	3120.00	30.64	-1.07	-.01	.00	80.02	80.00
1750.100	4040.00	31.82	.00	.12	.00	2711.30	33.00
1750.100	3120.00	31.15	-.66	.52	.00	1317.82	33.00
1750.000	4040.00	31.83	.00	.01	.00	2712.95	60.00
1750.000	3120.00	31.19	-.64	.03	.00	2366.03	60.00
1749.900	4040.00	31.88	.00	.05	.00	2699.33	300.00
1749.900	3120.00	31.26	-.63	.07	.00	2335.46	300.00
1749.000	4040.00	32.66	.00	.78	.00	614.41	2310.00
1749.000	3120.00	32.13	-.53	.88	.00	518.93	2310.00
1748.300	3900.00	33.58	.00	.92	.00	1345.26	2700.00
1748.300	3010.00	32.98	-.60	.84	.00	1238.65	2700.00
1748.200	3900.00	33.59	.00	.02	.00	1349.41	100.00
1748.200	3010.00	32.99	-.60	.02	.00	1225.14	100.00
1748.100	3900.00	33.66	.00	.07	.00	1333.64	35.00

1748.000	3900.00	33.67	.00	.01	.00	1362.97	55.00
1748.000	3010.00	33.28	-.38	.01	.00	1295.09	55.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1747.000	3900.00	34.96	.00	1.29	.00	708.76	3350.00
1747.000	3010.00	34.32	-.64	1.03	.00	450.28	3350.00
1746.000	3900.00	35.74	.00	.78	.00	1465.98	1190.00
1746.000	3010.00	35.04	-.70	.72	.00	1218.99	1190.00
1745.000	3900.00	36.66	.00	.92	.00	89.85	1860.00
1745.000	3010.00	35.92	-.73	.88	.00	87.21	1860.00
1744.000	3590.00	38.14	.00	1.49	.00	1515.49	1580.00
1744.000	2650.00	37.25	-.89	1.33	.00	944.37	1580.00
1743.000	3590.00	38.89	.00	.74	.00	1301.51	1830.00
1743.000	2650.00	38.12	-.77	.87	.00	1225.57	1830.00
1742.000	3590.00	39.58	.00	.70	.00	787.25	1670.00
1742.000	2650.00	38.81	-.78	.69	.00	542.82	1670.00
1741.800	3280.00	40.42	.00	.83	.00	796.36	1335.00
1741.800	2290.00	39.44	-.97	.64	.00	143.25	1335.00
1741.700	3280.00	40.44	.00	.03	.00	92.00	60.00
1741.700	2290.00	39.47	-.98	.02	.00	92.00	60.00
1741.600	3280.00	40.62	.00	.18	.00	92.00	37.00
1741.600	2290.00	39.54	-1.08	.07	.00	92.00	37.00
1741.500	3280.00	40.73	.00	.11	.00	904.06	60.00
1741.500	2290.00	39.59	-1.14	.05	.00	268.09	60.00
1741.300	3280.00	40.77	.00	.04	.00	751.61	80.00
1741.300	2290.00	39.62	-1.15	.03	.00	407.67	80.00
1741.200	3280.00	40.80	.00	.03	.00	753.40	50.00
1741.200	2290.00	39.65	-1.15	.02	.00	88.00	50.00
1741.100	3280.00	41.01	.00	.21	.00	88.00	37.00
1741.100	2290.00	39.73	-1.27	.09	.00	88.00	37.00
1741.000	3280.00	41.13	.00	.12	.00	1148.95	100.00
1741.000	2290.00	39.78	-1.34	.05	.00	641.86	100.00
174103.000	3280.00	41.19	.00	.07	.00	848.81	70.00
174103.000	2290.00	39.85	-1.34	.07	.00	487.87	70.00
174102.000	3280.00	41.21	.00	.02	.00	895.95	40.00
174102.000	2290.00	39.89	-1.32	.04	.00	105.00	40.00
174101.000	3280.00	41.27	.00	.05	.00	2762.52	50.00
174101.000	2290.00	39.90	-1.36	.02	.00	1641.59	50.00

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1740.000	3280.00	42.19	.00	.92	.00	157.51	2680.00
1740.000	2290.00	41.13	-1.06	1.23	.00	70.91	2680.00
1739.400	3280.00	43.09	.00	.90	.00	856.33	700.00
1739.400	2290.00	41.77	-1.32	.64	.00	495.69	700.00
1739.300	3280.00	43.14	.00	.05	.00	924.51	90.00
1739.300	2290.00	41.82	-1.32	.05	.00	503.30	90.00
1739.200	3280.00	43.47	.00	.33	.00	1414.07	50.00
1739.200	2290.00	41.99	-1.48	.17	.00	529.40	50.00
1739.100	3280.00	43.50	.00	.02	.00	1452.34	50.00
1739.100	2290.00	42.02	-1.48	.03	.00	533.24	50.00
1738.500	3280.00	43.97	.00	.48	.00	1383.38	1480.00
1738.500	2290.00	42.47	-1.50	.45	.00	1144.76	1480.00
1738.400	3280.00	44.04	.00	.07	.00	585.54	500.00
1738.400	2290.00	42.54	-1.50	.07	.00	429.92	500.00
1738.300	3280.00	44.12	.00	.08	.00	573.38	350.00
1738.300	2290.00	42.61	-1.51	.07	.00	123.00	350.00
1738.200	3280.00	44.36	.00	.25	.00	123.00	40.00
1738.200	2290.00	42.72	-1.65	.11	.00	123.00	40.00
1738.100	3280.00	44.46	.00	.10	.00	1377.42	180.00
1738.100	2290.00	42.78	-1.68	.06	.00	491.45	180.00
1737.600	3280.00	44.50	.00	.04	.00	1087.49	260.00
1737.600	2290.00	42.82	-1.69	.04	.00	392.80	260.00
1737.500	3280.00	44.53	.00	.03	.00	1171.48	50.00
1737.500	2290.00	42.86	-1.67	.04	.00	787.79	50.00
1737.400	3280.00	44.61	.00	.08	.00	1106.70	320.00
1737.400	2290.00	42.94	-1.66	.08	.00	765.37	320.00
1737.300	3320.00	44.83	.00	.22	.00	810.68	700.00
1737.300	2320.00	43.25	-1.58	.30	.00	111.00	700.00
1737.200	3320.00	45.10	.00	.27	.00	111.00	160.00
1737.200	2320.00	43.36	-1.73	.12	.00	111.00	160.00
1737.100	3320.00	45.30	.00	.21	.00	809.88	450.00
1737.100	2320.00	43.53	-1.78	.16	.00	111.00	450.00
1736.700	3320.00	45.44	.00	.14	.00	951.51	500.00
1736.700	2320.00	43.70	-1.74	.18	.00	767.28	500.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1736.600	3320.00	45.45	.00	.01	.00	180.00	100.00
1736.600	2320.00	43.73	-1.72	.03	.00	180.00	100.00
1736.500	3320.00	45.46	.00	.01	.00	180.00	20.00
1736.500	2320.00	43.74	-1.73	.01	.00	180.00	20.00
1736.400	3320.00	45.55	.00	.10	.00	961.88	150.00

1736.000	3320.00	45.69	.00	.13	.00	1433.45	850.00
1736.000	2320.00	44.01	-1.68	.20	.00	1330.93	850.00
1735.800	3320.00	45.74	.00	.05	.00	1486.30	360.00
1735.800	2320.00	44.08	-1.66	.07	.00	1317.16	360.00
1735.700	3320.00	45.79	.00	.05	.00	1719.13	350.00
1735.700	2320.00	44.16	-1.63	.08	.00	1412.24	350.00
1735.600	3320.00	45.84	.00	.05	.00	2336.77	42.00
1735.600	2320.00	44.39	-1.45	.23	.00	1652.24	42.00
1735.500	3320.00	45.87	.00	.03	.00	3023.12	200.00
1735.500	2320.00	44.43	-1.44	.04	.00	1192.07	200.00
1735.300	3320.00	45.97	.00	.10	.00	5022.02	480.00
1735.300	2320.00	44.58	-1.39	.16	.00	2821.07	480.00
1735.200	3320.00	45.98	.00	.01	.00	5035.14	100.00
1735.200	2320.00	44.59	-1.38	.01	.00	2620.72	100.00
1735.100	3320.00	46.01	.00	.04	.00	5100.00	40.00
1735.100	2320.00	44.62	-1.39	.03	.00	2841.76	40.00
1735.000	3320.00	46.02	.00	.01	.00	5200.00	130.00
1735.000	2320.00	44.64	-1.39	.01	.00	2842.02	130.00
1734.000	3320.00	46.12	.00	.09	.00	2739.35	1310.00
1734.000	2320.00	44.77	-1.34	.14	.00	2387.32	1310.00
1733.400	3320.00	46.24	.00	.12	.00	1708.28	1620.00
1733.400	2320.00	44.93	-1.30	.16	.00	1431.27	1620.00
1733.300	3370.00	46.31	.00	.07	.00	1955.52	580.00
1733.300	2350.00	45.02	-1.29	.08	.00	1695.74	580.00
1733.200	3370.00	46.92	.00	.61	.00	2091.25	75.00
1733.200	2350.00	46.52	-.40	1.50	.00	2047.21	75.00
1733.100	3370.00	46.92	.00	.01	.00	2091.70	100.00
1733.100	2350.00	46.52	-.40	.00	.00	2047.75	100.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1732.400	3370.00	47.01	.00	.09	.00	3000.00	1425.00
1732.400	2350.00	46.58	-.43	.06	.00	2684.83	1425.00
1732.300	3370.00	47.02	.00	.01	.00	3000.00	100.00
1732.300	2350.00	46.59	-.43	.01	.00	2686.00	100.00
1732.200	3370.00	47.05	.00	.02	.00	3146.04	85.00
1732.200	2350.00	46.61	-.44	.02	.00	2649.84	85.00
1732.100	3370.00	47.08	.00	.03	.00	2672.73	320.00
1732.100	2350.00	46.63	-.45	.02	.00	2183.20	320.00
1731.400	3370.00	47.35	.00	.28	.00	2127.72	1495.00
1731.400	2350.00	46.85	-.51	.22	.00	1887.86	1495.00
1731.300	3370.00	47.37	.00	.01	.00	2125.13	100.00

1731.200	3370.00	47.38	.00	.01	.00	2138.07	35.00
1731.200	2350.00	46.86	-.51	.01	.00	1912.01	35.00
1731.100	3370.00	47.38	.00	.00	.00	2138.01	65.00
1731.100	2350.00	46.87	-.51	.00	.00	1912.00	65.00
1730.000	3370.00	47.38	.00	.00	.00	145.77	1310.00
1730.000	2350.00	46.90	-.48	.03	.00	82.69	1310.00
1729.400	3370.00	49.49	.00	2.11	.00	2632.93	720.00
1729.400	2350.00	47.95	-1.53	1.06	.00	437.62	720.00
1729.300	3370.00	49.63	.00	.14	.00	2334.99	100.00
1729.300	2350.00	48.20	-1.42	.25	.00	583.80	100.00
1729.200	3370.00	49.65	.00	.02	.00	2365.43	23.00
1729.200	2350.00	48.21	-1.43	.01	.00	590.28	23.00
1729.100	3370.00	49.70	.00	.05	.00	2376.13	60.00
1729.100	2350.00	48.32	-1.38	.11	.00	655.66	60.00
1728.300	3370.00	50.31	.00	.62	.00	1393.27	1880.00
1728.300	2350.00	49.24	-1.08	.92	.00	1056.29	1880.00
1728.200	3240.00	50.33	.00	.02	.00	1398.89	100.00
1728.200	2250.00	49.25	-1.08	.02	.00	1059.62	100.00
1728.100	3240.00	50.41	.00	.07	.00	1424.83	24.00
1728.100	2250.00	49.32	-1.08	.07	.00	1083.34	24.00
1728.000	3240.00	50.41	.00	.01	.00	1425.59	65.00
1728.000	2250.00	49.33	-1.08	.01	.00	1084.09	65.00

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1727.000	3240.00	50.62	.00	.20	.00	1566.49	1550.00
1727.000	2250.00	49.55	-1.07	.22	.00	1165.89	1550.00
1726.800	3240.00	50.82	.00	.20	.00	1837.03	1155.00
1726.800	2250.00	49.76	-1.05	.22	.00	935.53	1155.00
1726.700	3240.00	50.85	.00	.03	.00	1854.97	100.00
1726.700	2250.00	49.80	-1.05	.04	.00	968.98	100.00
1726.600	3240.00	50.88	.00	.04	.00	1891.86	18.00
1726.600	2250.00	49.80	-1.08	.00	.00	974.82	18.00
1726.500	3240.00	50.90	.00	.02	.00	1904.06	50.00
1726.500	2250.00	49.83	-1.08	.03	.00	994.33	50.00
1726.300	3240.00	51.04	.00	.14	.00	1621.70	960.00
1726.300	2250.00	49.99	-1.05	.16	.00	1478.58	960.00
1726.200	3240.00	51.04	.00	.00	.00	1621.95	90.00
1726.200	2250.00	49.99	-1.05	.00	.00	1449.33	90.00
1726.100	3240.00	51.09	.00	.04	.00	1623.12	27.00
1726.100	2250.00	50.01	-1.07	.03	.00	1451.98	27.00

1726.000 3240.00 51.10 .00 .01 .00 1622.25 25.00