

BT 1247 6402.7 6401.5 1247 6402.7 6402.7 1500 6404 6404
 NC .035 .035 .035 .1 .3
 X1 83 12 1132 1356 480 400 328
 GR 6410 1000 6408 1074 6406 1132 6404 1214 6402 1258
 GR 6400 1310 6400 1346 6402 1348 6404 1352 6406 1356
 GR 6408 1458 6410 1514
 QT 5 10500 4680 4460 1040 6190
 X1 84 11 1034 1256 540 720 672
 GR 6420 1000 6418 1012 6416 1034 6414 1100 6412 1106
 GR 6410 1154 6412 1206 6414 1210 6416 1256 6418 1398
 GR 6420 1422
 X1 85 16 1176 1358 380 380 514
 GR 6426 1000 6424 1088 6422 1094 6422 1104 6424 1160
 GR 6424 1178 6422 1188 6420 1196 6418 1200 6416 1208
 GR 6416 1254 6418 1304 6420 1318 6422 1358 6424 1484
 GR 6426 1522
 X1 86 22 1016 1744 640 270 408
 GR 6432 1000 6430 1008 6428 1016 6426 1064 6426 1290
 GR 6424 1342 6424 1398 6426 1470 6426 1492 6424 1542
 GR 6422 1578 6422 1596 6424 1604 6426 1610 6426 1624
 GR 6424 1656 6424 1734 6426 1740 6428 1744 6428 1782
 GR 6430 1834 6432 1870
 X1 87 17 1118 1766 560 540 608
 GR 6440 1000 6438 1108 6436 1118 6434 1128 6436 1222
 GR 6436 1232 6432 1242 6430 1262 6432 1280 6432 1302
 GR 6430 1350 6430 1690 6432 1708 6434 1718 6436 1766
 GR 6438 1770 6440 1774
 X1 88 13 1316 1386 420 768 576
 GR 6446 1000 6444 1024 6442 1070 6440 1248 6440 1316
 GR 6438 1322 6436 1330 6436 1354 6438 1380 6440 1386
 GR 6442 1398 6444 1786 6446 1792
 X1 89 18 1014 1088 600 700 540
 GR 6454 990 6454 990 6454 990 6454 990 6454 990
 GR 6452 1000 6450 1010 6448 1014 6446 1018 6444 1022
 GR 6442 1054 6442 1072 6444 1077 6446 1079 6448 1088
 GR 6450 1102 6452 1108 6454 1140
 X1 90 13 1006 1086 492 488 494
 GR 6458 1000 6456 1006 6454 1010 6452 1014 6450 1018
 GR 6448 1022 6448 1048 6448 1072 6450 1078 6452 1082
 GR 6454 1086 6456 1096 6458 1102
 QT 5 9860 4600 3850 1070 8010
 X1 91 18 1004 1074 468 472 470
 GR 6466 996 6466 996 6466 996 6466 996 6466 996
 GR 6464 1000 6462 1004 6460 1008 6458 1012 6456 1015
 GR 6454 1018 6454 1038 6456 1062 6458 1066 6460 1070
 GR 6462 1074 6464 1078 6470 1080
 X1 92 12 1004 1110 536 540 540
 GR 6472 996 6468 1004 6466 1007 6464 1010 6462 1014
 GR 6460 1018 6460 1062 6462 1098 6464 1102 6466 1106
 GR 6468 1110 6470 1114
 X1 93 13 1008 1128 456 464 456
 GR 6478 1000 6476 1004 6474 1008 6472 1022 6470 1028
 GR 6468 1034 6468 1066 6468 1094 6470 1102 6472 1112
 GR 6474 1128 6476 1142 6478 1154

NC .035 .035 .02 .3 .5
 X1 94 6 1230 1304 560 564 620
 GR 6490 1000 6490.6 1230 6475.1 1230 6475.1 1304 6490 1304
 GR 6492 1380
 SB 1.25 1.56 2.6 0 74 5 860 6476.6 6475.1
 X1 94.1 0 0 0 100 100 100 0 1.5
 X2 0 0 1 6488.6 6491.4
 BT 6 1000 6490 6490 1230 6490.6 6490.6 1230 6490.6 6487.1
 BT 1304 6490.1 6487.1 1304 6490.1 6490.1 1380 6492 6492
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 X1 95 13 1202 1570 960 520 568
 GR 6502 1000 6500 1128 6498 1202 6496 1268 6494 1286
 GR 6492 1306 6492 1378 6492 1416 6494 1438 6496 1570
 GR 6498 1690 6500 1714 6502 1738
 X1 96 17 1350 1634 540 560 480
 GR 6510 1000 6508 1046 6506 1082 6504 1148 6502 1272
 GR 6504 1320 6506 1350 6506 1356 6504 1366 6502 1376
 GR 6500 1484 6500 1518 6502 1578 6504 1624 6506 1634
 GR 6508 1644 6510 1666
 QT 5 9260 4170 3670 750 6400
 X1 97 12 1472 1798 1060 800 880
 GR 6520 1000 6518 1022 6516 1060 6514 1370 6514 1472
 GR 6512 1514 6510 1652 6512 1674 6514 1798 6516 1808
 GR 6518 1818 6520 1828
 X1 98 16 1458 1618 160 800 424
 GR 6524 1000 6522 1014 6520 1064 6518 1144 6518 1288
 GR 6520 1308 6522 1444 6520 1458 6518 1470 6516 1496
 GR 6514 1536 6516 1570 6518 1604 6520 1618 6522 1628
 GR 6524 1634
 X1 99 16 1082 1164 760 520 532
 GR 6530 960 6530 960 6530 960 6530 960 6530 960
 GR 6528 1000 6526 1052 6524 1082 6522 1086 6520 1090
 GR 6518 1096 6520 1122 6522 1156 6524 1164 6526 1166
 GR 6530 1174
 X1 100 17 1096 1138 500 490 496
 GR 6536 980 6536 980 6536 980 6536 980 6536 980
 GR 6534 1000 6532 1018 6530 1096 6528 1100 6526 1104
 GR 6524 1130 6526 1133 6528 1136 6530 1138 6532 1142
 GR 6534 1152 6536 1162
 X1 101 12 1112 1194 800 860 920
 GR 6548 1000 6546 1014 6544 1058 6544 1112 6542 1118
 GR 6540 1136 6538 1152 6540 1174 6542 1186 6544 1194
 GR 6546 1202 6548 1208
 NC .035 .035 .030 .3 .5
 QT 5 9070 4020 3620 690 5680
 X1 102 8 1030 1177 570 550 660
 GR 6562 1000 6562 1030 6546.5 1046 6546.5 1054 6544.5 1056
 GR 6544.5 1161 6562 1177 6564 1267
 SB 1.05 1.5 2.5 0 105 0 1364 1 6545.5 6544.5
 X1 102.1 0 0 0 90 90 90 0 1.0
 X2 0 0 1 6556.5 6563.1
 BT 6 1000 6562 6562 1030 6562 6562 1030 6562 6555.5
 BT 1177 6562 6555.5 1177 6562 6562 1267 6564 6564
 NC .035 .035 .035 .1 .3

X1	103	18	1142	1204	328	300	368			
GR	6568	960	6568	960	6568	960	6568	960	6568	960
GR	6566	1000	6564	1062	6564	1128	6562	1142	6560	1148
GR	6558	1154	6556	1160	6558	1168	6560	1178	6562	1204
GR	6564	1218	6566	1220	6568	1222				
X1	104	19	1026	1496	480	560	500			
GR	6580	1000	6578	1006	6576	1026	6574	1036	6572	1056
GR	6572	1138	6574	1166	6572	1180	6570	1202	6570	1290
GR	6572	1308	6572	1334	6570	1360	6572	1382	6572	1408
GR	6574	1440	6576	1490	6578	1496	6580	1504		
QT	5	7110	3260	3320	490	3360				
X1	105	16	1052	1262	580	390	504			
GR	6588	1000	6586	1008	6584	1052	6582	1084	6582	1124
GR	6584	1142	6584	1158	6582	1164	6580	1174	6578	1188
GR	6578	1232	6580	1252	6582	1256	6584	1258	6586	1262
GR	6588	1266								
X1	106	17	1028	1074	640	600	594			
GR	6592	994	6592	994	6592	994	6592	994	6592	994
GR	6590	1000	6588	1006	6586	1028	6584	1034	6582	1040
GR	6580	1046	6582	1058	6584	1062	6586	1074	6588	1090
GR	6590	1097	6592	1100						
X1	107	18	1018	1068	640	620	592			
GR	6604	970	6604	970	6604	970	6604	970	6604	970
GR	6600	1000	6598	1008	6596	1018	6594	1028	6592	1044
GR	6590	1056	6592	1060	6594	1062	6596	1066	6598	1068
GR	6600	1070	6602	1174	6604	1179				
X1	108	17	1018	1082	460	480	524			
GR	6612	995	6612	995	6612	995	6612	995	6612	995
GR	6610	1000	6608	1008	6606	1018	6604	1030	6602	1046
G4	6600	1052	6602	1062	6604	1074	6606	1078	6608	1082
GR	6610	1086	6612	1188						
QT	5	6560	3180	3170	480	3040				
X1	109	11	1026	1110	580	540	628			
GR	6620	1000	6618	1006	6616	1026	6614	1046	6612	1090
GR	6610	1098	6612	1102	6614	1106	6616	1110	6618	1114
GR	6620	1116								
X1	110	13	1006	1136	560	360	468			
GR	6630	1000	6628	1006	6626	1014	6624	1022	6622	1058
GR	6620	1064	6622	1078	6622	1102	6624	1110	6626	1136
GR	6628	1216	6628	1256	6630	1280				
X1	111	11	1078	1250	400	440	448			
GR	6636	1000	6634	1010	6632	1078	6630	1132	6628	1152
GR	6626	1234	6628	1238	6630	1242	6632	1246	6634	1250
GR	6636	1254								
X1	112	12	1026	1252	480	680	592			
GR	6640	1000	6638	1014	6636	1026	6634	1042	6634	1158
GR	6632	1164	6630	1172	6632	1192	6634	1222	6636	1252
GR	6638	1350	6640	1380						
X1	113	11	1018	1326	540	240	400			
GR	6650	1000	6648	1010	6646	1018	6644	1026	6642	1034
GR	6640	1124	6642	1190	6644	1310	6646	1326	6648	1392
GR	6650	1412								
X1	114	8	1030	1390	400	500	528			
GR	6670	1000	6666	1030	6660	1065	6660	1150	6661.8	1230

GR 6662 1300 6668 1390 6670 1410
 X1 115 12 1028 1338 600 660 652
 GR 6670 1000 6668 1028 6666 1036 6664 1044 6662 1056
 GR 6660 1176 6660 1232 6662 1254 6664 1338 6666 1418
 GR 6668 1538 6670 1576
 QT 5 4310 1700 2780 470 1970
 X1 116 13 1126 1416 520 580 506
 GR 6678 1000 6676 1074 6674 1126 6672 1130 6670 1132
 GR 6668 1142 6668 1262 6668 1388 6670 1392 6672 1394
 GR 6674 1416 6676 1440 6678 1468
 X1 117 12 1086 1338 375 540 440
 GR 6686 1000 6684 1064 6682 1086 6680 1116 6678 1134
 GR 6676 1212 6676 1330 6678 1332 6680 1334 6682 1336
 GR 6684 1338 6686 1340
 X1 118 11 1106 1208 536 616 596
 GR 6694 1000 6692 1098 6690 1106 6688 1112 6686 1116
 GR 6684 1136 6686 1184 6688 1194 6690 1208 6692 1374
 GR 6694 1434
 X1 119 13 1006 1434 624 495 536
 GR 6704 1000 6702 1006 6700 1014 6698 1018 6696 1026
 GR 6694 1034 6694 1234 6694 1412 6696 1418 6698 1424
 GR 6700 1428 6702 1434 6704 1450
 X1 120 11 1008 1108 480 410 472
 GR 6710 1000 6708 1008 6706 1012 6704 1018 6702 1022
 GR 6700 1048 6702 1090 6704 1102 6706 1108 6708 1224
 GR 6710 1252
 QT 5 4290 1670 2780 470 1950
 X1 121 14 1184 1542 440 510 612
 GR 6720 1000 6718 1158 6716 1184 6714 1214 6712 1224
 GR 6710 1256 6710 1286 6710 1464 6712 1492 6714 1510
 GR 6716 1542 6717.3 1564 6718 1592 6720 1652
 X1 122 12 1038 1372 405 440 488
 GR 6726 1000 6724 1024 6722 1038 6720 1052 6718 1068
 GR 6716 1132 6716 1276 6718 1312 6720 1356 6722 1372
 GR 6724 1390 6726 1416
 X1 123 22 1062 1406 232 560 420
 GR 6730 1000 6728 1024 6726 1044 6724 1064 6722 1082
 GR 6720 1108 6718 1132 6720 1200 6720 1368 6722 1400
 GR 6724 1406 6726 1410 6726 1414 6724 1428 6722 1440
 GR 6724 1450 6726 1468 6726 1506 6724 1522 6726 1570
 GR 6728 1580 6730 1602
 QT 5 4100 1570 2730 460 1910
 X1 124 12 1260 1478 520 512 478
 GR 6736 1000 6734 1260 6732 1266 6730 1270 6728 1272
 GR 6726 1276 6728 1350 6728 1414 6730 1448 6732 1462
 GR 6734 1478 6736 1490
 X1 125 11 1080 1164 460 360 520
 GR 6742 1000 6740 1018 6738 1044 6736 1080 6734 1112
 GR 6732 1148 6734 1154 6736 1160 6738 1164 6740 1172
 GR 6742 1204
 X1 126 12 1114 1222 580 720 728
 GR 6750 1000 6748 1074 6746 1114 6744 1124 6742 1134
 GR 6740 1152 6742 1164 6744 1176 6746 1222 6746 1382
 GR 6748 1390 6750 1396

X1	127	11	1004	1042	560	520	524			
GR	6756	1000	6754	1004	6752	1006	6750	1010	6748	1014
GR	6746	1018	6748	1030	6750	1036	6752	1042	6754	1078
GR	6756	1086								
X1	128	12	1006	1052	472	580	616			
GR	6764	1000	6762	1002	6760	1006	6758	1010	6756	1012
GR	6754	1016	6756	1036	6758	1042	6760	1052	6762	1096
GR	6762	1128	6764	1220						
X1	129	12	1006	1092	568	440	560			
GR	6772	1000	6770	1006	6768	1010	6766	1018	6766	1058
GR	6764	1068	6762	1080	6764	1082	6766	1086	6768	1090
GR	6770	1092	6772	1096						
X1	130	11	1066	1188	688	632	648			
GR	6776	1000	6774	1036	6772	1066	6770	1080	6768	1088
GR	6766	1102	6768	1154	6770	1158	6772	1188	6774	1274
GR	6776	1302								
X1	131	13	1192	1370	480	500	512			
GR	6796	1000	6794	1080	6792	1152	6790	1192	6788	1202
GR	6786	1218	6786	1262	6786	1294	6788	1334	6790	1356
GR	6792	1370	6794	1384	6796	1400				
QT	5	4120	1580	2730	470	1900				
X1	132	11	1112	1318	456	568	536			
GR	6804	1000	6802	1048	6800	1112	6798	1148	6796	1178
GR	6794	1300	6796	1306	6798	1318	6800	1334	6802	1352
GR	6804	1370								
X1	133	11	1088	1278	584	416	496			
GR	6810	1000	6808	1010	6806	1044	6804	1088	6802	1170
GR	6800	1234	6802	1260	6804	1270	6806	1278	6808	1286
GR	6810	1298								
X1	134	12	1010	1168	256	580	552			
GR	6816	1000	6814	1006	6812	1010	6810	1014	6808	1018
GR	6806	1022	6806	1060	6808	1118	6810	1168	6812	1182
GR	6814	1236	6816	1280						
X1	135	11	1008	1204	480	460	488			
GR	6824	1000	6822	1004	6820	1008	6818	1024	6816	1070
GR	6814	1154	6816	1194	6818	1200	6820	1204	6822	1208
GR	6824	1212								
X1	136	22	1132	1690	540	488	520			
GR	6840	1000	6838	1042	6836	1120	6836	1124	6834	1128
GR	6832	1132	6830	1136	6828	1140	6826	1172	6824	1284
GR	6824	1342	6826	1354	6828	1364	6828	1456	6830	1462
GR	6830	1556	6830	1662	6832	1690	6834	1718	6836	1744
GR	6838	1772	6840	1800						
X1	137	22	1046	1294	460	352	360			
GR	6844	1000	6842	1012	6840	1024	6838	1034	6836	1046
GR	6834	1056	6832	1070	6830	1100	6828	1108	6830	1126
GR	6832	1174	6834	1228	6836	1288	6838	1294	6838	1300
GR	6836	1306	6834	1360	6836	1404	6838	1406	6840	1410
GR	6842	1418	6844	1440						
QT	5	3230	770	2510	480	2300				
X1	138	12	1102	1362	488	400	448			
GR	6850	1000	6848	1075	6846	1102	6844	1156	6842	1172
GR	6840	1182	6840	1298	6842	1330	6844	1346	6846	1362
GR	6848	1378	6850	1398						

X1	139	7	1320	1570	600	630	620			
GR	6860	1000	6854	1320	6850	1530	6850	1540	6856	1570
GR	6860	1620	6864	1700						
X1	140	14	1236	1762	800	1000	950			
GR	6880	1000	6878	1116	6876	1142	6874	1236	6872	1334
GR	6870	1424	6870	1540	6868	1724	6870	1740	6872	1752
GR	6874	1762	6876	2026	6878	2128	6880	2138		
NC	.02	.02	.02	.3	.5					
X1	141	7	1400	1478	480	468	480			
GR	6884	1000	6882	1400	6874	1400	6874	1418	6882	1478
GR	6884	1600	6888	1750						
SB	1.25	1.5	2.5	0	78	0	468	0	6874	6874.2
X1	141.1	0	0	0	36	36	36	0	.2	
X2	0	0	1	6880	6882					
BT	7	1000	6884	6884	1400	6882	6882	1400	6882	6880
BT	1478	6882	6880	1478	6882	6882	1600	6884	6884	1600
BT	6888	6888								
NC	.035	.035	.035	.1	.3					
X1	142	15	1104	1414	600	528	560			
GR	6896	1000	6894	1040	6892	1060	6890	1072	6888	1104
GR	6886	1190	6884	1200	6882	1214	6884	1332	6886	1400
GR	6888	1414	6890	1420	6892	1432	6894	1470	6896	1704
X1	143	15	1098	1318	540	392	460			
GR	6904	1000	6902	1020	6900	1040	6898	1056	6896	1098
GR	6894	1122	6892	1130	6890	1206	6892	1264	6894	1292
GR	6896	1318	6898	1360	6900	1378	6902	1400	6904	1422
X1	144	17	1088	1374	560	520	512			
GR	6910	1000	6908	1012	6906	1024	6906	1088	6904	1122
GR	6902	1166	6900	1190	6900	1218	6898	1232	6896	1266
GR	6898	1300	6900	1340	6902	1354	6904	1364	6906	1374
GR	6908	1380	6910	1404						
X1	145	17	1080	1350	520	460	472			
GR	6920	1000	6918	1024	6916	1038	6914	1062	6912	1070
GR	6910	1080	6908	1106	6906	1148	6904	1306	6906	1338
GR	6908	1350	6910	1354	6912	1356	6914	1366	6916	1372
GR	6918	1380	6920	1392						
QT	5	2630	480	2460	470	1820				
X1	146	17	1054	1196	572	552	552			
GR	6930	1000	6928	1026	6926	1038	6924	1046	6922	1054
GR	6920	1058	6918	1064	6916	1066	6914	1074	6916	1144
GR	6918	1168	6920	1188	6922	1196	6924	1204	6926	1216
GR	6928	1228	6930	1242						
X1	147	15	1120	1278	280	620	532			
GR	6934	1000	6932	1082	6930	1098	6928	1108	6926	1120
GR	6924	1128	6922	1196	6920	1212	6922	1232	6924	1252
GR	6926	1278	6928	1298	6930	1312	6932	1320	6934	1350
X1	148	13	1076	1216	668	504	600			
GR	6944	1000	6942	1052	6940	1060	6938	1070	6936	1076
GR	6934	1084	6932	1170	6930	1178	6932	1204	6938	1216
GR	6940	1220	6942	1230	6944	1250				
X1	149	16	1320	1454	296	572	420			
GR	6950	1000	6948	1102	6948	1280	6946	1296	6944	1300
GR	6942	1320	6940	1334	6938	1370	6936	1402	6938	1418
GR	6940	1436	6942	1454	6944	1470	6946	1480	6948	1488

GR 6950	1498									
X1 150	19	1050	1206	564	528	580				
GR 6960	1000	6958	1008	6956	1014	6954	1028	6952	1034	
GR 6950	1040	6948	1048	6946	1052	6944	1066	6942	1082	
GR 6944	1108	6946	1114	6948	1204	6950	1206	6952	1218	
GR 6954	1240	6956	1260	6958	1290	6960	1314			
X1 151	15	1070	1138	524	384	464				
GR 6964	1000	6962	1010	6960	1018	6958	1022	6956	1028	
GR 6954	1070	6952	1084	6950	1090	6952	1100	6954	1138	
GR 6956	1154	6958	1162	6960	1170	6962	1178	6964	1186	
X1 152	15	1060	1176	580	472	540				
GR 6974	1000	6972	1022	6970	1032	6968	1050	6966	1060	
GR 6964	1064	6962	1074	6962	1112	6960	1142	6962	1172	
GR 6966	1176	6968	1204	6970	1236	6972	1264	6974	1300	

EJ

T1 SAND CREEK DRAINAGE BASIN PLANNING STUDY 09-04-90

T2 100-YEAR FLOW, MAINSTEM, EXISTING DISCHARGES

T3 FILENAME:SCMAINST.DAT,X-SEC ORIENTED L-R LOOKING UPSTREAM

J1	-10	4	0	0	0	0	0	0	5794
J2	15	0	-1						

ER

WATER SURFACE PROFILES
VERSION OF SEPTEMBER 1988
ERROR: 01.02
UPDATED: 4 APRIL 1989
RUN DATE 8/ 4/93 TIME 8:30:19

* U.S. ARMY CORPS OF ENGINEERS
* THE HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET, SUITE D
* DAVIS, CALIFORNIA 95616-4687
* (916) 756-1104, (916) 551-1748

```

X      X  XXXXXXXX  XXXXX
X      X  X        X      X
X      X  X        X
XXXXXXX XXXX      X      XXXXX
X      X  X        X
X      X  X        X      X
X      X  XXXXXXXX  XXXXX

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END OF BANNER

8/ 4/93

8:30:19

PAGE 1

THIS RUN EXECUTED 8/ 4/93 8:30:19

HEC2 RELEASE DATED SEP 88 UPDATED APR 1989

ERROR CORR - 01.02

MODIFICATION -

T1 SAND CREEK DRAINAGE BASIN PLANNING STUDY 09-04-09
T2 100- YEAR FLOW, MAINSTEM, FUTURE DEVELOPMENT DISCHARGES
T3 FILENAME: SCHMAINST.DAT,X-SEC ORIENTED L-R LOOKING UPSTREAM

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10	2	0	0	0	0	0	0	5796	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	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	YNL	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CCHV= .100 CEHV= .300

*SECNO 1.000

3720 CRITICAL DEPTH ASSUMED

1.00	12.28	5796.28	5796.28	5796.00	5800.83	4.55	.00	.00	5798.00
26490.	0.	25880.	610.	0.	1498.	92.	0.	0.	5792.00
.00	.00	17.28	6.63	.000	.025	.030	.000	5784.00	1040.57
.003962	0.	0.	0.	0	4	0	.00	178.28	1218.85

*SECNO 2.000

3301 HV CHANGED MORE THAN HVINS

2.00	10.50	5800.50	5799.75	.00	5802.47	1.97	1.38	.26	5808.00
26400.	0.	19493.	6907.	0.	1558.	1054.	22.	3.	5800.00
.01	.00	12.52	6.56	.000	.025	.030	.000	5790.00	1229.75
.002489	410.	440.	480.	6	15	0	.00	431.49	1661.24

*SECNO 3.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3.00	7.19	5805.19	5805.19	.00	5808.69	3.50	1.93	.46	5812.00
26400.	0.	26400.	0.	0.	1759.	0.	51.	8.	5812.00
.02	.00	15.01	.00	.000	.025	.000	.000	5798.00	1038.21
.004937	500.	556.	640.	20	14	0	.00	252.98	1291.19

*SECNO 4.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

4.00	7.64	5811.64	5811.64	.00	5814.11	2.47	2.44	.10	5816.00
26400.	0.	25168.	1232.	0.	1960.	205.	74.	12.	5810.00
.03	.00	12.84	6.00	.000	.025	.030	.000	5804.00	1034.35
004599	516.	510.	600.	20	8	0	.00	440.22	1474.57

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

CCHV= .300 CEHV= .500

*SECNO 5.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

5.00	10.02	5822.02	5822.02	.00	5826.78	4.76	2.54	1.15	5929.90
26400.	0.	26400.	0.	0.	1508.	0.	96.	16.	5929.90
.04	.00	17.51	.00	.000	.025	.000	.000	5812.00	1275.00
.005030	600.	530.	450.	20	11	0	.00	160.00	1435.00

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

5227 DOWNSTREAM ELEV IS 5820.32 , NOT 5822.02 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

XK	XKOR	COFO	ROLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.25	1.50	2.50	.00	160.00	4.00	1560.00	.00	5812.00	5812.00

*SECNO 5.100

3301 HV CHANGED MORE THAN HVINS

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

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
5828.69	5826.99	.00	0.	26400.	1560.	1732.	5823.10	5829.90	0.

LAS VEGAS STREET

5.10	14.50	5826.50	.00	.00	5828.69	2.18	1.91	.00	5929.90
26400.	0.	26400.	0.	0.	2226.	0.	97.	16.	5929.90
.04	.00	11.86	.00	.000	.025	.000	.000	5812.00	1275.00
.001465	25.	25.	25.	3	0	0	.00	160.00	1435.00

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	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 6.000

3301 HV CHANGED MORE THAN HVINS

6.00	10.79	5828.79	.00	.00	5829.50	.70	.66	.15	5830.00
26400.	0.	25409.	991.	0.	3710.	401.	133.	22.	5826.00
.06	.00	6.85	2.47	.000	.025	.030	.000	5818.00	1016.41
.001208	540.	500.	510.	3	0	0	.00	868.80	1885.22

CCHV= .300 CEHV= .500
*SECNO 7.000

3301 HV CHANGED MORE THAN HVINS

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

7.00	9.05	5833.05	5833.05	.00	5835.52	2.48	1.07	.89	5848.40
26100.	0.	26100.	0.	0.	2067.	0.	167.	29.	5848.40
.07	.00	12.63	.00	.000	.025	.000	.000	5824.00	1300.96
.005584	505.	480.	435.	20	15	0	.00	430.00	1730.96

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	XK	XKOR	COFO	RDLN	BWC	RWP	BAREA	SS	ELCHU	ELCHD
	1.20	1.50	2.50	.00	485.00	37.00	4930.00	.00	5824.00	5824.00

*SECNO 7.100

1860 XLCEL OF 58445.00 EXCEEDS RDEL OF 5848.40

3301 HV CHANGED MORE THAN HVINS

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

CLASS A LOW FLOW

3420 BRIDGE W.S.= 5832.93 BRIDGE VELOCITY= 6.52 CALCULATED CHANNEL AREA= 4001.

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLSSS	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

ESPRS	EGLWC	H3	GWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	5835.96	1.52	0.	26100.	4930.	9766.	5845.80	5848.40	0.

A.T.&S.F. R.R.

7.10	10.57	5834.57	.00	.00	5835.96	1.39	.44	.00	5848.40
26100.	0.	26100.	0.	0.	2755.	0.	168.	29.	5848.40
.07	.00	9.47	.00	.000	.025	.000	.000	5824.00	1269.60
.002369	10.	10.	10.	0	0	0	.00	462.75	1732.35

CCHV= .100 CEHV= .300

*SECNO 8.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

720 CRITICAL DEPTH ASSUMED

8.00	8.13	5838.13	5838.13	.00	5840.98	2.84	1.46	.43	5836.00
26100.	26.	26074.	0.	7.	1927.	0.	191.	33.	5842.00
.08	3.76	13.53	.00	.030	.025	.000	.000	5830.00	1057.46
.005266	415.	430.	430.	20	15	0	.00	349.32	1406.78

*SECNO 9.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

9.00	9.41	5846.41	5846.41	.00	5850.39	3.99	2.93	.34	5858.00
26100.	0.	26100.	0.	0.	1629.	0.	215.	36.	5852.00
.09	.00	16.03	.00	.000	.025	.000	.000	5837.00	1143.99
.004680	560.	590.	600.	20	8	0	.00	204.82	1348.81

*SECNO 10.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

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	YNCH	YNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICDNT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

10.00	12.21	5856.21	5856.21	.00	5860.42	4.21	2.58	.07	5858.00
26030.	0.	26030.	0.	0.	1580.	0.	235.	39.	5856.00
.10	.00	16.47	.76	.000	.025	.030	.000	5844.00	1138.94
.004707	590.	550.	615.	20	11	0	.00	195.31	1334.25

*SECNO 11.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

11.00	10.91	5861.41	5861.41	.00	5865.71	4.30	2.58	.03	5868.00
26030.	0.	26030.	0.	0.	1564.	0.	255.	41.	5862.00
.11	.00	16.65	.00	.000	.025	.000	.000	5850.50	1112.59
.004669	550.	550.	550.	20	15	0	.00	185.44	1298.04

CCHV= .300 CEHV= .500

SPECIAL BRIDGE

0, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

5227 DOWNSTREAM ELEV IS 5858.26 , NOT 5861.41 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.50	2.50	.00	160.00	9.20	1120.00	.00	5850.50	5850.50	

*SECNO 12.000

PRESS FLOW BECAUSE EGLWC OF 5880.75 EXCEEDS 1.5 DEPTH

3301 HV CHANGED MORE THAN HVINS

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

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
5873.99	5880.75	.00	0.	26030.	1120.	2187.	5865.00	5876.00	0.
12.00	13.85	5871.85	.00	.00	5873.99	2.14	8.28	.00	5876.00
26030.	0.	26030.	0.	0.	2217.	0.	281.	44.	5876.00
.13	.00	11.74	.00	.000	.020	.000	.000	5858.00	1600.00
000929	590.	590.	590.	3	0	0	.00	160.00	1760.00

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

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.50	.00	160.00	9.20	1120.00	.00	5858.00	5858.00

*SECNO 12.100

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 11 MIN ELTRD= .00 MAX ELLC= 5876.00

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

HANCOCK EXPRESSWAY

12.10	8.69	5876.69	5876.69	.00	5877.97	1.28	.18	.26	5876.00
26030.	93.	7385.	18552.	35.	910.	1958.	287.	45.	5876.00
.13	2.65	8.11	9.47	.020	.020	.020	.000	5868.00	1498.45
.005266	100.	100.	100.	20	11	0	-480.00	1168.60	2667.05

CCHV= .100 CEHV= .300

*SECNO 13.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

13.00	8.47	5881.97	5881.97	.00	5884.56	2.59	2.06	.39	5882.00
24850.	0.	23134.	1716.	0.	1734.	465.	316.	55.	5880.00
.14	.00	13.34	3.69	.000	.025	.035	.000	5873.50	1345.06
.003272	500.	500.	500.	20	8	0	.00	477.60	1822.66

*SECNO 14.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

14.00	7.26	5887.26	5887.26	.00	5890.09	2.83	1.93	.07	5890.00
24850.	0.	21060.	3790.	0.	1471.	509.	340.	59.	5882.00
.15	.00	14.32	7.45	.000	.025	.035	.000	5880.00	1610.94
.004610	500.	500.	500.	20	15	0	.00	345.48	1956.42

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 15.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

15.00	9.38	5895.78	5895.78	.00	5899.29	3.51	2.08	.20	5892.00
24850.	596.	24143.	111.	155.	1585.	31.	362.	63.	5894.00
.16	3.85	15.23	3.58	.035	.025	.035	.000	5886.40	1149.78
.003688	505.	505.	505.	20	11	0	.00	310.17	1459.95

*SECNO 16.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

16.00	10.22	5902.72	5902.72	.00	5906.23	3.51	.04	.00	5902.00
24850.	447.	24379.	24.	134.	1606.	12.	364.	65.	5902.00
.16	3.33	15.18	2.02	.035	.025	.035	.000	5892.50	1147.82
003744	500.	0.	500.	20	8	0	.00	324.88	1472.70

*SECNO 17.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

17.00	11.15	5908.45	5908.45	.00	5911.64	3.19	1.35	.03	5906.00
24850.	1539.	23311.	0.	412.	1579.	0.	381.	68.	5912.00
.17	3.73	14.76	.00	.035	.025	.000	.000	5897.30	1113.62
.003079	400.	400.	400.	20	8	0	.00	389.14	1502.76

*SECNO 18.000

3280 CROSS SECTION 18.00 EXTENDED .18 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

18.00	11.18	5914.18	5914.18	.00	5917.33	3.14	1.28	.00	5912.00
24850.	1372.	23478.	0.	340.	1607.	0.	399.	71.	5916.00
.18	4.04	14.61	.00	.035	.025	.000	.000	5903.00	1000.00
.003351	400.	400.	400.	20	5	0	.00	345.80	1345.80

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	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300

*SECNO 19.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

19.00	8.39	5918.39	5918.39	.00	5921.88	3.50	1.84	.11	5932.00
24850.	0.	24850.	0.	0.	1655.	0.	423.	75.	5930.00
.19	.00	15.01	.00	.000	.020	.000	.000	5910.00	1418.07
.003131	680.	565.	450.	20	15	0	.00	238.70	1656.77

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

5227 DOWNSTREAM ELEV IS 5917.69 , NOT 5918.39 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.50	.00	150.00	10.00	2980.00	1.00	5910.00	5910.00

SECNO 19.100

SS B LOW FLOW

3420 BRIDGE W.S.= 5919.69 BRIDGE VELOCITY= 17.12 CALCULATED CHANNEL AREA= 1451.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	5925.61	.00	0.	24850.	2980.	2582.	5926.50	5930.00	0.

SOUTH ACADEMY BLVD.

19.10	12.17	5922.17	.00	.00	5925.61	3.44	3.72	.00	5932.00
24850.	0.	24850.	0.	0.	1669.	0.	429.	76.	5930.00
.19	.00	14.88	.00	.000	.020	.000	.000	5910.00	1255.46
.001991	160.	160.	160.	0	0	0	.00	169.71	1425.18

CCHV= .100 CEHV= .300

*SECNO 20.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

20.00	9.86	5929.86	5929.86	.00	5933.67	3.81	1.32	.11	5928.00
23330.	113.	23183.	34.	43.	1476.	13.	446.	78.	5928.00
.20	2.61	15.70	2.59	.035	.025	.035	.000	5920.00	1103.38
.004145	340.	480.	620.	20	15	0	.00	235.60	1338.99

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

*SECNO 21.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

21.00	9.31	5935.91	5935.91	.00	5940.14	4.23	2.32	.13	5938.00
23330.	0.	23330.	0.	0.	1413.	0.	464.	81.	5936.00
.21	.00	16.51	.00	.000	.025	.000	.000	5926.60	1141.12
.004712	520.	525.	530.	20	11	0	.00	168.68	1309.80

*SECNO 22.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

22.00	10.07	5943.07	5943.07	.00	5947.44	4.37	2.34	.04	5944.00
23330.	0.	23330.	0.	0.	1391.	0.	480.	83.	5944.00
.21	.00	16.78	.00	.000	.025	.000	.000	5933.00	1147.33
.004653	500.	500.	500.	20	8	0	.00	160.97	1308.31

THV= .300 CEHV= .500

*SECNO 23.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

23.00	7.74	5953.74	5953.74	.00	5957.65	3.91	1.54	.14	5959.70
23330.	0.	23330.	0.	0.	1470.	0.	497.	85.	5959.70
.22	.00	15.87	.00	.000	.016	.000	.000	5946.00	1975.00
.002118	445.	510.	565.	20	15	0	.00	190.00	2165.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 5953.55 , NOT 5953.74 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.60	.00	150.00	8.33	1025.40	.00	5947.00	5946.00

*SECNO 23.100

SECND	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

6790 POSSIBLE INVALID SOLUTION 20 TRIALS OF EG NOT ENOUGH

FINAL GWEIR + QPR = 3594. DOES NOT EQUAL ACTUAL Q = 23330.

6870 D.S. ENERGY OF 5957.65 IS HIGHER THAN COMPUTED ENERGY OF 5957.06
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
5965.79	5959.78	.00	0.	3594.	1025.	992.	5954.00	5959.70	1490.

CHELTON ROAD

23.10	7.98	5953.98	.00	.00	5957.65	3.66	.00	.00	5959.70
23330.	0.	23330.	0.	0.	1519.	0.	500.	85.	5959.70
.23	.00	15.36	.00	.000	.016	.000	.000	5946.00	1975.00
.001905	100.	100.	100.	4	0	20	.00	190.00	2165.00

CDHV= .100 CDHV= .300

SECND 24.000

J5 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

24.00	9.40	5961.40	5961.40	.00	5965.05	3.65	1.19	.00	5958.00
23330.	415.	22736.	179.	101.	1465.	56.	517.	88.	5958.00
.23	4.09	15.52	3.20	.035	.025	.035	.000	5952.00	1284.97
.003878	500.	450.	380.	20	11	0	.00	290.58	1575.54

*SECND 25.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

25.00	9.28	5966.28	5966.28	.00	5970.27	3.98	1.85	.10	5964.00
23330.	136.	23194.	0.	41.	1444.	1.	533.	90.	5966.00
.24	3.28	16.06	.76	.035	.025	.035	.000	5957.00	1025.46
.004346	450.	450.	450.	20	5	0	.00	209.04	1234.51

*SECND 26.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

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	CGRAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

26.00	9.24	5972.24	5972.24	.00	5976.14	3.90	2.15	.01	5974.00
23330.	0.	23172.	158.	0.	1457.	50.	550.	93.	5970.00
.25	.00	15.91	3.18	.000	.025	.035	.000	5963.00	1118.21
.004268	500.	500.	500.	20	5	0	.00	213.57	1331.77

#SECNO 27.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

27.00	9.12	5981.12	5981.12	.00	5984.93	3.81	2.23	.01	5980.00
23300.	37.	23263.	0.	19.	1484.	0.	567.	95.	5982.00
.26	1.97	15.68	.00	.035	.025	.000	.000	5972.00	1026.44
.004670	500.	500.	500.	20	5	0	.00	226.53	1252.97

#SECNO 28.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

28.00	8.50	5986.50	5986.50	.00	5990.21	3.71	2.37	.01	5986.00
23300.	1.	23299.	0.	1.	1506.	0.	584.	98.	5988.00
.27	1.16	15.47	.00	.035	.025	.000	.000	5978.00	1030.01
.004808	495.	500.	505.	20	11	0	.00	209.92	1239.93

CCHV= .300 CEHV= .500

#SECNO 29.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

29.00	8.37	5995.07	5995.07	.00	5998.83	3.75	2.15	.02	6003.30
23300.	0.	23300.	0.	0.	1499.	0.	600.	100.	6003.30
.28	.00	15.55	.00	.000	.025	.000	.000	5986.70	1484.78
.004846	420.	445.	460.	20	5	0	.00	202.92	1687.70

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

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 5994.30 , NOT 5995.07 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.50	.00	156.00	3.50	1850.00	2.60	5988.00	5986.70

*SECNO 29.100

3301 HV CHANGED MORE THAN HVINS

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

CLASS B LOW FLOW

3420 BRIDGE W.S.= 5995.89 BRIDGE VELOCITY= 15.62 CALCULATED CHANNEL AREA= 1365.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
5998.77	5999.73	.00	0.	23300.	1850.	1683.	5997.50	6004.40	0.

FOUNTAIN BOULEVARD

29.10	11.05	5997.75	.00	.00	5999.73	1.98	.91	.00	6003.30
23300.	0.	23300.	0.	0.	2063.	0.	605.	100.	6003.30
.28	.00	11.30	.00	.000	.025	.000	.000	5986.70	1476.71
.001848	130.	130.	130.	0	0	0	.00	218.26	1694.96

CCHV= .100 CEHV= .300

*SECNO 30.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

30.00	9.07	6003.37	6003.37	.00	6007.29	3.91	1.38	.58	6004.00
22450.	0.	22418.	32.	0.	1411.	14.	625.	103.	6002.00
.29	.00	15.89	2.24	.000	.025	.035	.000	5994.30	1301.94
.004616	500.	500.	500.	20	15	0	.00	198.66	1500.60

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

*SECNO 31.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

31.00	9.10	6009.30	6009.30	.00	6013.25	3.96	2.34	.01	6010.00
22450.	0.	22450.	0.	0.	1407.	0.	641.	105.	6010.00
.30	.00	15.96	.00	.000	.025	.000	.000	6000.20	1176.79
.004733	500.	500.	500.	20	5	0	.00	179.21	1356.00

*SECNO 32.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

32.00	9.41	6015.41	6015.41	.00	6019.60	4.18	2.22	.07	6024.00
22450.	0.	22450.	0.	0.	1368.	0.	656.	107.	6018.00
.30	.00	16.42	.00	.000	.025	.000	.000	6006.00	1239.08
.004720	470.	470.	470.	20	8	0	.00	165.53	1404.61

*SECNO 33.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

33.00	8.64	6022.64	6022.64	.00	6025.26	2.61	.13	.16	6024.00
22450.	0.	20836.	1614.	0.	1554.	358.	657.	107.	6020.00
.30	.00	13.40	4.51	.000	.025	.035	.000	6014.00	1299.50
.003789	30.	30.	30.	20	11	0	.00	396.59	1696.09

*SECNO 34.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

34.00	6.73	6028.73	6028.73	.00	6030.94	2.21	1.88	.04	6025.00
22450.	1630.	20323.	497.	372.	1632.	140.	681.	112.	6026.00
.32	4.39	12.46	3.55	.035	.025	.035	.000	6022.00	1015.85
.003706	490.	500.	530.	20	15	0	.00	531.60	1547.45

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
1	QLOB	QCH	QROB	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 35.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

35.00	8.48	6036.78	6036.78	.00	6039.19	2.41	1.99	.06	6032.00
18770.	3215.	15555.	0.	614.	1155.	0.	705.	118.	6042.00
.33	5.24	13.47	.00	.035	.025	.000	.000	6028.30	1024.14
.003531	480.	560.	500.	20	11	0	.00	366.82	1390.96

*SECNO 36.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

36.00	10.45	6046.45	6046.45	.00	6049.15	2.70	1.55	.09	6042.00
18770.	1592.	16699.	479.	417.	1201.	103.	725.	122.	6042.00
.34	3.82	13.90	4.64	.035	.025	.035	.000	6036.00	1023.25
.002735	500.	500.	500.	20	11	0	.00	378.01	1401.25

*SECNO 37.000

35 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

37.00	10.88	6051.88	6051.88	.00	6054.15	2.27	.19	.04	6050.00
18770.	3101.	15613.	55.	730.	1189.	26.	732.	126.	6050.00
.34	4.25	13.13	2.09	.035	.025	.035	.000	6041.00	1367.29
.002635	500.	0.	500.	20	8	0	.00	480.88	1848.18

*SECNO 38.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

38.00	9.39	6059.39	6059.39	.00	6060.90	1.51	1.22	.08	6056.00
18770.	5338.	12305.	1127.	1325.	1039.	340.	759.	133.	6056.00
.36	4.03	11.84	3.32	.035	.025	.035	.000	6050.00	1154.58
.002257	500.	500.	500.	20	10	0	.00	814.88	1969.46

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 39.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

39.00	9.98	6065.98	6065.98	.00	6067.95	1.98	1.20	.14	6064.00
18460.	3716.	13338.	1406.	785.	1028.	385.	787.	141.	6062.00
.37	4.73	12.98	3.65	.035	.025	.035	.000	6056.00	1030.16
.002555	500.	500.	500.	20	8	0	.00	578.43	1608.58

*SECNO 40.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

40.00	11.06	6073.06	6073.06	.00	6075.01	1.96	1.13	.00	6070.00
18460.	1464.	15539.	1458.	482.	1277.	508.	813.	149.	6070.00
.38	3.04	12.17	2.87	.035	.025	.035	.000	6062.00	1118.03
.002053	530.	490.	480.	20	8	0	.00	731.06	1849.10

HV= .300 CEHV= .500

END 41.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

41.00	8.79	6075.79	6075.79	.00	6079.54	3.75	1.29	.90	6081.00
18460.	0.	18460.	0.	0.	1188.	0.	833.	154.	6081.00
.39	.00	15.53	.00	.000	.020	.000	.000	6067.00	1764.87
.003098	550.	520.	440.	20	15	0	.00	160.25	1925.13

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6075.06 , NOT 6075.79 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.15	1.50	2.50	.00	122.00	2.00	732.00	.00	6068.00	6067.00

*SECNO 41.100

SECNO	DEPTH	CWSEL	CRWS	WSELK	ES	HV	HL	QLOSS	BANK ELEV
3	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

6790 POSSIBLE INVALID SOLUTION 20 TRIALS OF EG NOT ENOUGH

FINAL QWEIR + QPR = 2486. DOES NOT EQUAL ACTUAL Q = 18460.

6870 D.S. ENERGY OF 6079.54 IS HIGHER THAN COMPUTED ENERGY OF 6076.11
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6090.61	6080.36	.00	4188480.	2758.	732.	720.	6074.00	6081.30	1579.

AIRPORT ROAD

41.10	8.91	6075.91	.00	.00	6079.54	3.63	.00	.00	6081.00
18460.	0.	18460.	0.	0.	1208.	0.	836.	154.	6081.00
.39	.00	15.28	.00	.000	.020	.000	.000	6067.00	1764.53
.002953	100.	100.	100.	2	0	0	.00	160.94	1925.47

CEHV= .100 CEHV= .300

SECNO 42.000

35 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

42.00	7.85	6084.85	6084.85	.00	6088.32	3.47	1.88	.02	6090.00
18460.	0.	18460.	0.	0.	1235.	0.	850.	156.	6088.00
.40	.00	14.95	.00	.000	.025	.000	.000	6077.00	1016.64
.004935	580.	500.	420.	20	11	0	.00	179.63	1196.27

SECNO 43.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

43.00	6.19	6090.19	6090.19	.00	6093.08	2.89	2.54	.06	6098.00
18460.	0.	18460.	0.	0.	1354.	0.	865.	158.	6094.00
.41	.00	13.64	.00	.000	.025	.000	.000	6084.00	1057.90
.005231	500.	500.	500.	20	15	0	.00	237.56	1295.47

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 44.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

44.00	10.28	6100.28	6100.28	.00	6104.84	4.56	3.18	.50	6104.00
18460.	0.	1542.	16918.	0.	106.	975.	879.	160.	6090.00
.42	.00	14.58	17.35	.000	.025	.035	.000	6090.00	1447.43
.007871	500.	500.	500.	20	14	0	.00	120.21	1567.64

*SECNO 45.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

45.00	9.15	6106.85	6106.85	.00	6110.16	3.31	3.07	.13	6120.00
18460.	0.	18446.	14.	0.	1264.	8.	892.	162.	6106.00
.43	.00	14.60	1.68	.000	.025	.035	.000	6097.70	1319.48
.004917	500.	500.	500.	20	11	0	.00	209.68	1529.16

*SECNO 46.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

46.00	6.51	6111.51	6111.51	.00	6114.09	2.58	2.61	.07	6116.00
18460.	0.	18460.	0.	0.	1431.	0.	908.	165.	6116.00
.44	.00	12.90	.00	.000	.025	.000	.000	6105.00	1146.22
.005542	510.	500.	490.	20	19	0	.00	281.33	1427.55

*SECNO 47.000

3265 DIVIDED FLOW

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

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

47.00	7.31	6118.71	6118.71	.00	6120.74	2.03	2.77	.05	6126.00
18460.	0.	11273.	7187.	0.	858.	887.	926.	169.	6120.00
.45	.00	13.14	8.10	.000	.025	.035	.000	6111.40	1202.80
.005549	500.	500.	500.	20	8	0	.00	418.74	1668.45

*SECNO 48.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

48.00	7.06	6125.06	6125.06	.00	6127.57	2.51	2.73	.14	6130.00
18460.	0.	18460.	0.	0.	1452.	0.	944.	173.	6140.00
.47	.00	12.71	.00	.000	.025	.000	.000	6118.00	1275.29
.005379	500.	500.	500.	20	8	0	.00	289.64	1564.94

*SECNO 49.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

49.00	6.92	6135.92	6135.92	.00	6138.21	2.29	2.79	.02	6142.00
15430.	0.	15430.	0.	0.	1271.	0.	960.	176.	6138.00
.48	.00	12.14	.00	.000	.025	.000	.000	6129.00	1309.65
.005846	480.	500.	570.	20	5	0	.00	289.94	1599.59

*SECNO 50.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

50.00	5.48	6146.48	6146.48	.00	6148.26	1.78	2.94	.05	6156.00
15430.	0.	15430.	0.	0.	1441.	0.	975.	180.	6152.00
.49	.00	10.71	.00	.000	.025	.000	.000	6141.00	1056.43
.006156	580.	490.	450.	20	15	0	.00	413.54	1469.97

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 51.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

51.00	4.98	6154.98	6154.98	.00	6157.19	2.21	2.95	.13	6160.00
15430.	0.	15430.	0.	0.	1295.	0.	991.	185.	6160.00
.50	.00	11.92	.00	.000	.025	.000	.000	6150.00	1080.68
.005667	520.	500.	450.	20	11	0	.00	296.77	1377.45

*SECNO 52.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

52.00	4.18	6164.68	6164.68	.00	6166.02	1.33	3.14	.09	6172.00
15430.	0.	8194.	7236.	0.	747.	1059.	1009.	190.	6162.00
.52	.00	10.97	6.83	.000	.025	.035	.000	6160.50	1142.91
.007018	500.	500.	500.	20	15	0	.00	634.05	1776.96

*SECNO 53.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

53.00	4.73	6171.73	6171.73	.00	6173.27	1.54	2.87	.06	6172.00
15430.	0.	12262.	3168.	0.	1133.	580.	1028.	197.	6168.00
.53	.00	10.83	5.46	.000	.025	.035	.000	6167.00	1092.75
.005828	300.	410.	530.	20	8	0	.00	588.70	1681.44

CCHV= .300 CEHV= .500

*SECNO 54.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

54.00	6.70	6182.70	6182.70	.00	6184.78	2.08	2.77	.27	6189.30
15430.	0.	15430.	0.	0.	1332.	0.	1044.	202.	6189.30
.54	.00	11.59	.00	.000	.025	.000	.000	6176.00	1798.09
.005947	460.	470.	480.	20	14	0	.00	329.49	2127.59

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

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	XK	XKOR	COFQ	RLEN	BWC	RWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.50	.00	360.00	12.00	2140.00	.00	6176.00	6176.00

#SECNO 54.100

CLASS A LOW FLOW

3420 BRIDGE W.S.= 6182.64 BRIDGE VELOCITY= 6.68 CALCULATED CHANNEL AREA= 2310.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	6184.85	.52	0.	15430.	2140.	3202.	6185.20	6189.30	0.

PLATTE AVE. (US.24)

54.10	7.22	6183.22	.00	.00	6184.85	1.63	.07	.00	6189.30
15430.	0.	15430.	0.	0.	1504.	0.	1047.	202.	6189.30
.54	.00	10.26	.00	.000	.025	.000	.000	6176.00	1796.67
.004009	90.	90.	90.	0	0	0	.00	331.89	2128.56

CCHV= .100 CEHV= .300

#SECNO 55.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

55.00	6.41	6191.41	6191.41	.00	6194.18	2.77	2.69	.34	6198.00
15410.	0.	15410.	0.	0.	1153.	0.	1062.	205.	6194.00
.55	.00	13.36	.00	.000	.030	.000	.000	6185.00	1060.21
.007624	500.	500.	500.	20	11	0	.00	210.71	1270.92

#SECNO 56.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

56.00	7.59	6199.59	6199.59	.00	6201.97	2.38	3.86	.04	6206.00
15410.	0.	15410.	0.	0.	1244.	0.	1076.	208.	6204.00
.56	.00	12.39	.00	.000	.030	.000	.000	6192.00	1037.24
.007835	500.	500.	500.	20	8	0	.00	260.40	1297.64

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

*SECNO 57.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

57.00	10.19	6209.19	6209.19	.00	6213.34	4.15	3.69	.53	6218.00
15410.	0.	15394.	16.	0.	941.	7.	1089.	210.	6208.00
.57	.00	16.36	2.45	.000	.030	.035	.000	6199.00	1016.59
.006711	495.	510.	510.	20	11	0	.00	122.42	1139.01

*SECNO 58.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

58.00	12.03	6219.03	6219.03	.00	6222.67	3.65	3.68	.05	6228.00
15410.	0.	14905.	505.	0.	958.	120.	1103.	212.	6216.00
.58	.00	15.56	4.20	.000	.030	.035	.000	6207.00	1107.09
.005629	635.	600.	550.	20	11	0	.00	187.40	1294.49

*SECNO 59.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

59.00	8.85	6226.85	6226.85	.00	6230.26	3.42	4.43	.02	6236.00
15410.	0.	15410.	0.	0.	1039.	0.	1120.	215.	6234.00
.60	.00	14.83	.00	.000	.030	.000	.000	6218.00	1346.34
.007161	680.	700.	700.	20	15	0	.00	153.23	1499.57

*SECNO 60.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

GALLEY ROAD

50.00	5.03	6242.13	6242.13	.00	6243.39	1.26	1.40	.22	6238.00
15410.	5054.	7835.	2522.	819.	710.	389.	1127.	217.	6238.00
.60	6.17	11.03	6.49	.035	.030	.035	.000	6237.10	1130.63
.006509	210.	195.	290.	20	11	0	.00	704.88	1835.52

*SECD 61.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

61.00	8.11	6245.11	6245.11	.00	6248.19	3.08	2.80	.55	6242.00
15410.	251.	15159.	0.	54.	1068.	0.	1142.	222.	6246.00
.61	4.62	14.20	.00	.035	.030	.000	.000	6237.00	1025.04
.006615	460.	425.	370.	20	14	0	.00	194.50	1219.55

*SECD 62.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

62.00	8.66	6248.66	6248.66	.00	6252.10	3.44	1.27	.11	6246.00
15410.	159.	15164.	88.	40.	1012.	22.	1147.	223.	6246.00
.62	3.99	14.99	3.97	.035	.030	.035	.000	6240.00	1015.09
.006079	180.	200.	250.	20	8	0	.00	176.53	1191.62

*SECD 63.000

3280 CROSS SECTION 63.00 EXTENDED .22 FEET

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

63.00	11.22	6256.22	6256.22	.00	6258.82	2.60	2.06	.08	6256.00
15410.	0.	13274.	2136.	0.	964.	379.	1158.	225.	6250.00
.63	.64	13.77	5.63	.035	.030	.035	.000	6245.00	1047.28
.004387	390.	400.	410.	20	11	0	.00	292.72	1340.00

*SECD 64.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

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

64.00	13.94	6264.94	6264.94	.00	6267.48	2.54	2.02	.01	6268.00
15000.	0.	12829.	2171.	0.	940.	413.	1173.	228.	6260.00
.64	.00	13.65	5.25	.000	.030	.035	.000	6251.00	1039.54
.004019	480.	480.	480.	20	11	0	.00	297.51	1337.05

*SECNO 65.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

65.00	11.06	6269.06	6269.06	.00	6271.55	2.49	1.52	.00	6270.00
15000.	0.	13057.	1943.	0.	973.	358.	1183.	230.	6266.00
.64	.00	13.41	5.43	.000	.030	.035	.000	6258.00	1032.36
.004899	300.	340.	360.	20	15	0	.00	278.21	1310.57

*SECNO 66.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

66.00	9.36	6273.36	6273.36	.00	6276.02	2.66	1.65	.05	6274.00
15000.	0.	13091.	1909.	0.	948.	305.	1193.	232.	6268.00
.65	.00	13.81	6.27	.000	.030	.035	.000	6264.00	1046.60
.004958	330.	335.	340.	20	12	0	.00	259.55	1306.15

*SECNO 67.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

67.00	10.13	6282.13	6282.13	.00	6284.60	2.47	.00	.02	6278.00
15000.	85.	11995.	2920.	17.	871.	476.	1193.	232.	6278.00
.65	4.99	13.77	6.14	.035	.030	.035	.000	6272.00	999.75
.004641	0.	0.	0.	20	8	0	.00	268.50	1268.25

*SECNO 68.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

68.00	10.31	6290.31	6290.31	.00	6293.25	2.93	2.39	.14	6286.00
15000.	144.	12131.	2725.	23.	822.	330.	1207.	235.	6286.00
.66	6.40	14.76	8.26	.035	.030	.035	.000	6280.00	999.69
.005668	500.	468.	460.	20	5	0	.00	193.26	1192.94

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

*SECNO 69.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

69.00	11.20	6299.20	6299.20	.00	6301.43	2.23	2.71	.07	6294.00
15000.	145.	11152.	3703.	27.	835.	557.	1222.	238.	6294.00
.67	5.42	13.35	6.65	.035	.030	.035	.000	6288.00	998.80
.005289	540.	508.	450.	20	8	0	.00	309.20	1308.00

*SECNO 70.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

70.00	8.50	6306.50	6306.50	.00	6310.17	3.67	3.16	.43	6312.00
15000.	0.	15000.	0.	0.	975.	0.	1236.	240.	6312.00
.68	.00	15.38	.00	.000	.030	.000	.000	6298.00	1015.72
.007121	500.	518.	520.	20	15	0	.00	134.46	1150.18

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6304.24 , NOT 6306.50 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.50	.00	130.00	6.00	1254.00	1.00	6299.00	6298.00

*SECNO 70.100

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.= 6306.03 BRIDGE VELOCITY= 15.14 CALCULATED CHANNEL AREA= 921.

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

ESPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6309.83	6310.57	.00	0.	15000.	1254.	1254.	6308.40	6312.20	0.

PALMER PARK BRIDGE

70.10	10.17	6308.17	.00	.00	6310.57	2.40	.40	.00	6312.00
15000.	0.	15000.	0.	0.	1206.	0.	1237.	240.	6312.00
.68	.00	12.43	.00	.000	.030	.000	.000	6298.00	1010.94
.003792	60.	60.	60.	0	0	0	.00	142.22	1153.16

CCHV= .100 CEHV= .300
*SECNO 71.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

71.00	8.56	6316.56	6316.56	.00	6318.29	1.72	2.37	.07	6314.00
15000.	1705.	11744.	1551.	303.	1014.	336.	1255.	244.	6314.00
.70	5.62	11.59	4.62	.035	.035	.035	.000	6308.00	1012.92
.005131	568.	548.	360.	20	12	0	.00	461.34	1474.26

*SECNO 72.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

72.00	8.51	6324.51	6324.51	.00	6327.01	2.50	4.15	.23	6324.00
13680.	8.	13671.	1.	5.	1077.	1.	1273.	249.	6324.00
.71	1.77	12.69	1.75	.035	.035	.035	.000	6316.00	1052.02
.010680	580.	590.	600.	20	5	0	.00	236.55	1288.57

*SECNO 73.000

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

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

73.00	9.98	6333.98	6333.98	.00	6337.88	3.90	4.95	.42	6332.00
13680.	31.	13643.	6.	8.	860.	2.	1285.	251.	6332.00
.72	3.91	15.86	3.17	.035	.035	.035	.000	6324.00	1000.08
.008938	488.	508.	520.	20	8	0	.00	115.90	1115.98

QCHV= .300 CEHV= .500

*SECNO 74.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

74.00	8.17	6337.07	6337.07	.00	6341.01	3.94	2.80	.02	6346.00
13680.	0.	13680.	0.	0.	859.	0.	1295.	252.	6344.00
.73	.00	15.93	.00	.000	.020	.000	.000	6328.90	1245.22
.003305	480.	548.	360.	4	15	0	.00	110.19	1355.41

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6334.82 , NOT 6337.07 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFG	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	2.50	.00	113.00	13.00	1113.00	.00	6331.70	6328.90

*SECNO 74.100

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.71

CLASS B LOW FLOW

3420 BRIDGE W.S.= 6338.65 BRIDGE VELOCITY= 16.39 CALCULATED CHANNEL AREA= 695.

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

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6340.59	6345.01	.00	0.	13680.	1113.	1000.	6341.70	6347.90	0.

POWERS BOULEVARD

74.10	11.34	6343.04	.00	.00	6345.01	1.97	4.00	.00	6348.80
13680.	0.	13680.	0.	0.	1215.	0.	1300.	253.	6346.80
.73	.00	11.26	.00	.000	.020	.000	.000	6331.70	1243.37
.001129	200.	200.	200.	0	0	0	.00	114.15	1357.51

CDHV= .100 DEHV= .300

*SECNO 75.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

75.00	6.66	6350.66	6350.66	.00	6353.05	2.40	1.36	.13	6352.00
13680.	0.	13680.	0.	0.	1101.	0.	1314.	255.	6352.00
.75	.00	12.42	.00	.000	.035	.000	.000	6344.00	1017.40
010848	360.	528.	480.	20	14	0	.00	233.13	1250.53

*SECNO 76.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

76.00	7.71	6357.71	6357.71	.00	6360.32	2.61	5.34	.06	6358.00
13680.	0.	13658.	22.	0.	1052.	6.	1327.	257.	6356.00
.76	.00	12.98	3.78	.000	.035	.035	.000	6350.00	1005.73
.010178	500.	508.	530.	2	8	0	.00	205.11	1210.84

*SECNO 77.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

77.00	7.42	6363.42	6363.42	.00	6366.24	2.82	4.45	.06	6362.00
13680.	13.	13650.	17.	4.	1011.	5.	1337.	259.	6362.00
.77	3.29	13.50	3.31	.035	.035	.035	.000	6356.00	1008.31
.009854	452.	444.	444.	2	8	0	.00	186.79	1195.11

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	XLN	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 78.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

78.00	6.90	6376.90	6376.90	.00	6378.68	1.78	4.50	.10	6378.00
13680.	0.	13616.	64.	0.	1268.	24.	1349.	262.	6376.00
.78	.00	10.74	2.65	.000	.035	.035	.000	6370.00	1136.10
.011248	348.	428.	448.	20	11	0	.00	397.95	1534.05

*SECNO 79.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

79.00	7.44	6381.44	6381.44	.00	6383.96	2.52	4.36	.22	6382.00
13680.	0.	13520.	160.	0.	1056.	23.	1360.	265.	6378.00
.79	.00	12.80	7.08	.000	.035	.035	.000	6374.00	1007.67
.010357	460.	404.	376.	2	8	0	.00	218.65	1226.33

*SECNO 80.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

CHICAGO, ROCK ISLAND & PACIFIC RR

80.00	4.59	6392.59	6392.59	.00	6394.88	2.28	4.73	.02	6400.00
13680.	0.	13680.	0.	0.	1128.	0.	1371.	267.	6404.00
.80	.00	12.13	.00	.000	.035	.000	.000	6388.00	1070.00
.011363	448.	436.	468.	20	14	0	.00	250.00	1320.00

*SECNO 81.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
g	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	YNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

81.00	5.30	6395.30	.00	.00	6396.42	1.12	1.43	.12	6394.00
11880.	61.	10894.	925.	25.	1252.	152.	1376.	269.	6392.00
.80	2.41	8.70	6.07	.035	.035	.035	.000	6390.00	1179.09
.005765	200.	178.	164.	3	0	0	.00	389.77	1614.48

CCHV= .300 CEHV= .500

*SECNO 82.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

82.00	8.63	6398.13	6398.13	.00	6402.51	4.37	2.04	1.62	6402.50
11880.	0.	11880.	0.	0.	708.	0.	1387.	271.	6402.50
.81	.00	16.78	.00	.000	.020	.000	.000	6389.50	1165.00
.003714	400.	448.	420.	20	14	0	.00	82.00	1247.00

.CIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6396.64 . NOT 6398.13 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	2.60	.00	82.00	5.00	912.00	.00	6389.70	6389.50

*SECNO 82.100

6840. FLOW IS BY WEIR AND LOW FLOW

3301 HV CHANGED MORE THAN HVINS

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

3420 BRIDGE W.S.= 6401.18 BRIDGE VELOCITY= 12.74 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6402.25	6403.70	3.05	509.	11357.	912.	909.	6401.50	6402.70	404.

CONSTITUTION AVE

82.10	11.57	6401.27	.00	.00	6403.70	2.43	1.19	.00	6402.70
11880.	0.	11880.	0.	0.	949.	0.	1389.	271.	6402.70
.81	.00	12.52	.00	.000	.020	.000	.000	6389.70	1165.00
.001511	120.	120.	120.	3	0	0	.00	82.00	1247.00

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	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CEHV= .100 CEHV= .300

*SECNO 83.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

83.00	7.39	6407.39	6407.39	.00	6409.34	1.95	1.02	.05	6406.00
11880.	90.	11631.	159.	28.	1027.	49.	1397.	273.	6406.00
.82	3.23	11.33	3.23	.035	.035	.035	.000	6400.00	1091.77
.009454	480.	328.	400.	20	14	0	.00	334.98	1426.75

*SECNO 84.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

84.00	7.36	6417.36	6417.36	.00	6419.15	1.79	6.38	.02	6416.00
10500.	33.	10256.	211.	10.	944.	66.	1413.	278.	6416.00
.84	3.20	10.86	3.21	.035	.035	.035	.000	6410.00	1019.02
.009547	540.	672.	720.	10	5	0	.00	333.67	1352.69

*SECNO 85.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

85.00	7.21	6423.21	6423.21	.00	6425.28	2.08	4.74	.09	6424.00
10500.	119.	10249.	131.	35.	876.	46.	1425.	281.	6422.00
.85	3.46	11.69	2.87	.035	.035	.035	.000	6416.00	1090.38
.009009	380.	514.	380.	3	5	0	.00	299.30	1433.92

*SECNO 86.000

3301 HV CHANGED MORE THAN HVINS

86.00	5.66	6427.66	.00	.00	6428.16	.50	2.72	.16	6428.00
10500.	0.	10500.	0.	0.	1845.	0.	1438.	286.	6428.00
.87	.00	5.69	.00	.000	.035	.000	.000	6422.00	1024.26
.005130	640.	408.	270.	3	0	0	.00	719.05	1743.31

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 87.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

87.00	2.82	6432.82	6432.82	.00	6434.07	1.26	4.77	.23	6436.00
10500.	0.	10500.	0.	0.	1167.	0.	1459.	295.	6436.00
.89	.00	9.00	.00	.000	.035	.000	.000	6430.00	1239.96
.013462	560.	608.	540.	3	8	0	.00	472.12	1712.08

*SECNO 88.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

88.00	7.61	6443.61	6443.61	.00	6444.76	1.15	4.43	.01	6440.00
10500.	4617.	5024.	860.	740.	463.	283.	1476.	302.	6440.00
.91	6.24	10.86	3.04	.035	.035	.035	.000	6436.00	1032.97
.005369	420.	576.	768.	20	17	0	.00	677.34	1710.31

*SECNO 89.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

89.00	10.42	6452.42	6452.42	.00	6455.85	3.42	3.52	.68	6448.00
10500.	170.	9896.	434.	28.	651.	58.	1491.	308.	6448.00
.92	6.01	15.19	7.49	.035	.035	.035	.000	6442.00	997.88
.007357	600.	540.	700.	20	11	0	.00	116.89	1114.77

*SECNO 90.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

90.00	9.53	6457.53	6457.53	.00	6461.24	3.71	3.90	.09	6456.00
10500.	11.	10296.	193.	4.	661.	29.	1499.	309.	6454.00
.93	3.16	15.59	6.69	.035	.035	.035	.000	6448.00	1001.41
.008505	492.	494.	488.	2	11	0	.00	99.19	1100.59

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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 91.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

91.00	10.68	6464.68	6464.68	.00	6468.74	4.06	4.07	.10	6462.00
9860.	36.	9789.	35.	7.	604.	7.	1506.	310.	6462.00
.93	5.01	16.21	5.18	.035	.035	.035	.000	6454.00	998.64
.008822	468.	470.	472.	20	8	0	.00	79.59	1078.23

*SECNO 92.000

3280 CROSS SECTION 92.00 EXTENDED .13 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.56

92.00	10.13	6470.13	.00	.00	6471.88	1.75	2.91	.23	6468.00
9860.	11.	9837.	11.	5.	926.	5.	1516.	312.	6468.00
.95	2.48	10.62	2.53	.035	.035	.035	.000	6460.00	999.74
.003640	536.	540.	540.	2	0	0	.00	114.26	1114.00

*SECNO 93.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

93.00	7.76	6475.76	6475.76	.00	6478.63	2.87	2.54	.34	6474.00
9860.	11.	9808.	41.	3.	720.	11.	1524.	313.	6474.00
.96	3.55	13.63	3.80	.035	.035	.035	.000	6468.00	1004.47
.009604	456.	456.	464.	20	15	0	.00	135.86	1140.34

CCHV= .300 CEHV= .500

*SECNO 94.000

3301 HV CHANGED MORE THAN HVINS

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

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

94.00	8.17	6483.27	6483.27	.00	6487.40	4.14	3.57	.63	6490.60
9860.	0.	9860.	0.	0.	604.	0.	1534.	314.	6490.00
.97	.00	16.32	.00	.000	.020	.000	.000	6475.10	1230.00
.003827	560.	620.	564.	20	8	0	.00	74.00	1304.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6481.79 , NOT 6483.27 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.60	.00	74.00	5.00	860.00	.00	6476.60	6475.10

*SECNO 94.100

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

CLASS B LOW FLOW

3420 BRIDGE W.S.= 6484.44 BRIDGE VELOCITY= 16.64 CALCULATED CHANNEL AREA= 541.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID	ELLC	ELTRD	WEIRLN
						AREA			
6486.45	6489.89	.00	0.	9860.	860.	828.	6488.60	6491.40	0.

NORTH CAREFREE AVE.

94.10	11.01	6487.61	.00	.00	6489.89	2.27	2.49	.00	6492.10
9860.	0.	9860.	0.	0.	815.	0.	1535.	314.	6491.50
.97	.00	12.10	.00	.000	.020	.000	.000	6476.60	1230.00
.001531	100.	100.	100.	0	0	0	.00	74.00	1304.00

CCHV= .100 CEHV= .300

*SECNO 95.000

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
3	QLOB	QCH	QROB	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

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

95.00	4.94	6496.94	6496.94	.00	6498.38	1.44	1.88	.08	6498.00
9860.	0.	9786.	74.	0.	1014.	27.	1548.	317.	6496.00
.99	.00	9.65	2.78	.000	.035	.035	.000	6492.00	1236.98
.011706	960.	568.	520.	20	14	0	.00	389.41	1626.40

*SECNO 96.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

96.00	4.64	6504.64	6504.64	.00	6505.88	1.24	5.30	.02	6506.00
9860.	1707.	8153.	0.	292.	864.	0.	1560.	322.	6506.00
1.00	5.84	9.44	.00	.035	.035	.000	.000	6500.00	1126.81
.010220	540.	480.	560.	3	11	0	.00	467.24	1627.21

_CNO 97.000

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

97.00	5.05	6515.05	6515.05	.00	6516.14	1.10	8.91	.01	6514.00
9260.	687.	8566.	7.	192.	988.	3.	1584.	334.	6514.00
1.03	3.57	8.67	2.66	.035	.035	.035	.000	6510.00	1207.51
.009522	1060.	880.	800.	5	8	0	.00	595.73	1803.24

*SECNO 98.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

98.00	6.31	6520.31	6520.31	.00	6521.57	1.26	3.45	.05	6520.00
9260.	2993.	6266.	0.	469.	626.	0.	1594.	337.	6520.00
1.04	6.38	10.01	1.16	.035	.035	.035	.000	6514.00	1056.20
.009061	160.	424.	800.	1	11	0	.00	436.76	1619.56

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	ICDNT	CORAR	TOPWID	ENDST

*SECNO 99.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

99.00	10.16	6528.16	6528.16	.00	6530.63	2.48	4.46	.37	6524.00
9260.	931.	8276.	53.	155.	627.	11.	1607.	342.	6524.00
1.06	6.00	13.20	4.82	.035	.035	.035	.000	6518.00	996.84
.006589	760.	532.	520.	20	14	0	.00	173.48	1170.32

*SECNO 100.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

100.00	11.40	6535.40	6535.40	.00	6537.70	2.30	3.14	.02	6530.00
9260.	3324.	5639.	298.	396.	399.	46.	1616.	344.	6530.00
1.07	8.39	14.14	6.41	.035	.035	.035	.000	6524.00	986.02
.006060	500.	496.	490.	20	8	0	.00	172.98	1158.99

*SECNO 101.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

101.00	9.24	6547.24	6547.24	.00	6549.38	2.14	5.80	.02	6544.00
9260.	1991.	7155.	114.	279.	560.	20.	1633.	348.	6544.00
1.09	7.14	12.78	5.61	.035	.035	.035	.000	6538.00	1005.32
.007123	800.	920.	860.	20	15	0	.00	200.40	1205.72

CCHV= .300 CEHV= .500

*SECNO 102.000

102.00	6.69	6551.19	.00	.00	6553.27	2.08	3.88	.02	6562.00
9070.	0.	9070.	0.	0.	784.	0.	1645.	350.	6562.00
1.11	.00	11.57	.00	.000	.030	.000	.000	6544.50	1041.15
.005060	570.	660.	550.	2	0	0	.00	125.97	1167.12

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

SPECIAL BRIDGE

SB	XK	XKDR	COFG	RDLEN	RWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.50	.00	105.00	.00	1364.00	1.00	6545.50	6544.50

*SECNO 102.100

6070,LOW FLOW BY NORMAL BRIDGE

EBPRS= .000 EBLWC= 6554.274 ELLC= 6556.500 PCWSE= 6551.193 ELTRD= 6563.100

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 6563.10 MAX ELLC= 6556.50

BARNES ROAD

102.10	5.94	6551.44	6551.37	.00	6554.12	2.68	.55	.30	6563.00
9070.	0.	9070.	0.	0.	690.	0.	1647.	350.	6563.00
1.11	.00	13.14	.00	.000	.030	.000	.000	6545.50	1041.92
.007555	90.	90.	90.	5	15	0	.00	124.52	1166.44

CEHV= .100 CEHV= .300

*SECNO 103.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

103.00	11.10	6567.10	6567.10	.00	6568.96	1.87	2.46	.08	6562.00
9070.	2677.	5886.	507.	404.	466.	62.	1653.	352.	6562.00
1.12	6.63	12.63	8.16	.035	.035	.035	.000	6556.00	978.10
.006208	328.	368.	300.	20	17	0	.00	243.00	1221.10

*SECNO 104.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

104.00	4.06	6574.06	6574.06	.00	6575.33	1.27	4.42	.06	6576.00
9070.	0.	9070.	0.	0.	1001.	0.	1664.	356.	6578.00
1.13	.00	9.06	.00	.000	.035	.000	.000	6570.00	1035.71
.013680	480.	500.	560.	18	22	0	.00	405.73	1441.44

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
3	GLOB	GCH	GROB	ALOB	ACH	AROB	VDL	TWA	LEFT/RIGHT
TIME	VLQB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

*SECNO 105.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

105.00	6.33	6584.33	6584.33	.00	6586.02	1.69	6.62	.13	6584.00
7110.	2.	7108.	0.	1.	681.	0.	1674.	359.	6586.00
1.15	1.41	10.44	.00	.035	.035	.000	.000	6578.00	1044.85
.012503	580.	504.	390.	20	14	0	.00	213.80	1258.65

*SECNO 106.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

106.00	11.17	6591.17	6591.17	.00	6593.94	2.77	5.66	.32	6586.00
7110.	950.	5438.	722.	107.	376.	83.	1683.	361.	6586.00
1.16	8.89	14.47	8.71	.035	.035	.035	.000	6580.00	996.49
.007419	640.	594.	600.	2	17	0	.00	102.27	1098.76

*SECNO 107.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

107.00	12.44	6602.44	6602.44	.00	6604.47	2.03	3.48	.07	6596.00
7110.	733.	5785.	592.	104.	468.	157.	1692.	363.	6598.00
1.17	7.02	12.36	3.76	.035	.035	.035	.000	6590.00	981.67
.004648	640.	592.	620.	20	11	0	.00	193.44	1175.11

*SECNO 108.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

108.00	10.83	6610.83	6610.83	.00	6613.58	2.76	2.96	.22	6606.00
7110.	413.	6626.	72.	54.	485.	25.	1699.	365.	6608.00
1.18	7.68	13.66	2.89	.035	.035	.035	.000	6600.00	997.93
.007239	460.	524.	480.	20	8	0	.00	130.23	1128.16

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	ICDNT	CDRAR	TOPWID	ENDST

*SECNO 109.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

109.00	9.05	6619.05	6619.05	.00	6621.53	2.48	5.04	.03	6616.00
6560.	272.	6237.	51.	43.	484.	9.	1707.	367.	6616.00
1.20	6.38	12.88	5.84	.035	.035	.035	.000	6610.00	1002.85
.009153	580.	628.	540.	20	15	0	.00	112.21	1115.05

*SECNO 110.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

110.00	7.71	6627.71	6627.71	.00	6629.54	1.83	4.30	.07	6628.00
6560.	0.	6345.	215.	0.	576.	58.	1713.	368.	6626.00
1.21	.00	11.01	3.68	.000	.035	.035	.000	6620.00	1007.16
.009245	560.	468.	360.	20	12	0	.00	197.20	1204.36

*SECNO 111.000

111.00	6.35	6632.35	6632.26	.00	6634.10	1.75	4.56	.01	6632.00
6560.	3.	6557.	0.	2.	617.	0.	1720.	370.	6634.00
1.22	1.38	10.62	.00	.035	.035	.000	.000	6626.00	1066.45
.011250	400.	448.	440.	3	15	0	.00	180.23	1246.68

*SECNO 112.000

3301 HV CHANGED MORE THAN HVINS

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

112.00	7.56	6637.56	.00	.00	6638.36	.80	4.17	.10	6636.00
6560.	18.	6392.	150.	7.	880.	60.	1730.	374.	6636.00
1.25	2.48	7.27	2.50	.035	.035	.035	.000	6630.00	1016.61
.004807	480.	592.	680.	3	0	0	.00	312.10	1328.71

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

*SECNO 113.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

113.00	4.43	6644.43	6644.43	.00	6645.72	1.29	3.02	.15	6646.00
6560.	0.	6560.	0.	0.	721.	0.	1738.	376.	6646.00
1.26	.00	9.10	.00	.000	.035	.000	.000	6640.00	1024.26
.013638	540.	400.	240.	20	14	0	.00	289.21	1313.48

*SECNO 114.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

114.00	3.66	6663.66	6663.66	.00	6664.97	1.30	7.14	.00	6666.00
6560.	0.	6560.	0.	0.	716.	0.	1747.	380.	6668.00
1.27	.00	9.16	.00	.000	.035	.000	.000	6660.00	1043.63
.013426	400.	528.	500.	20	15	0	.00	281.33	1324.96

*SECNO 115.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.45

115.00	6.58	6666.58	.00	.00	6666.84	.26	1.77	.10	6668.00
6560.	0.	6309.	251.	0.	1518.	137.	1764.	385.	6664.00
1.32	.00	4.16	1.84	.000	.035	.035	.000	6660.00	1033.68
.001128	600.	652.	660.	5	0	0	.00	419.13	1452.80

*SECNO 116.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

116.00	2.09	6670.09	6670.09	.00	6671.12	1.03	1.12	.23	6674.00
4310.	0.	4310.	0.	0.	530.	0.	1777.	389.	6674.00
1.34	.00	8.13	.00	.000	.035	.000	.000	6668.00	1131.91
.014227	520.	506.	580.	20	17	0	.00	260.19	1392.09

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

*SECNO 117.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

117.00	2.86	6678.86	6678.86	.00	6680.06	1.20	6.13	.05	6682.00
4310.	0.	4310.	0.	0.	490.	0.	1782.	392.	6684.00
1.35	.00	8.79	.00	.000	.035	.000	.000	6676.00	1126.25
.013666	375.	440.	540.	10	11	0	.00	206.61	1332.86

*SECNO 118.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

118.00	5.80	6689.80	6689.80	.00	6691.78	1.98	7.63	.23	6690.00
4310.	0.	4310.	0.	0.	382.	0.	1788.	394.	6690.00
1.36	.00	11.28	.00	.000	.035	.000	.000	6684.00	1106.59
.012016	536.	596.	616.	4	17	0	.00	100.03	1206.62

*SECNO 119.000

3301 HV CHANGED MORE THAN HVINS

119.00	2.06	6696.06	.00	.00	6696.52	.46	4.59	.15	6702.00
4310.	0.	4310.	0.	0.	794.	0.	1796.	397.	6702.00
1.39	.00	5.43	.00	.000	.035	.000	.000	6694.00	1025.76
.006407	624.	536.	495.	4	0	0	.00	392.42	1418.18

*SECNO 120.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

120.00	5.78	6705.78	6705.78	.00	6707.79	2.01	3.96	.46	6708.00
4310.	0.	4310.	0.	0.	379.	0.	1802.	399.	6706.00
1.40	.00	11.36	.00	.000	.035	.000	.000	6700.00	1012.65
.011474	480.	472.	410.	20	20	0	.00	94.70	1107.35

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	CLOSS	BANK ELEV
2	QLOB	QCH	QROB	ALOB	ACH	AROB	VQL	TWA	LEFT/RIGHT
TIME	YLOB	VCH	VROB	YNL	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 121.000

3301 HV CHANGED MORE THAN HVINS

121.00	2.71	6712.71	.00	.00	6713.35	.64	5.42	.14	6716.00
4290.	0.	4290.	0.	0.	670.	0.	1809.	402.	6716.00
1.43	.00	6.40	.00	.000	.035	.000	.000	6710.00	1220.45
.007042	440.	612.	510.	3	0	0	.00	277.95	1498.40

*SECNO 122.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

122.00	2.56	6718.56	6718.56	.00	6719.58	1.02	4.73	.11	6722.00
4290.	0.	4290.	0.	0.	530.	0.	1816.	405.	6722.00
1.45	.00	8.10	.00	.000	.035	.000	.000	6716.00	1063.50
.014145	405.	488.	440.	8	8	0	.00	260.86	1324.36

*SECNO 123.000

3 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.72

123.00	4.40	6722.40	.00	.00	6722.85	.45	3.21	.06	6726.00
4290.	0.	4289.	1.	0.	799.	1.	1822.	408.	6724.00
1.47	.00	5.37	1.00	.000	.035	.035	.000	6718.00	1078.37
.004774	232.	420.	560.	3	0	0	.00	327.29	1442.02

*SECNO 124.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

124.00	4.31	6730.31	6730.31	.00	6731.58	1.26	3.54	.25	6734.00
4100.	0.	4100.	0.	0.	454.	0.	1829.	411.	6734.00
1.48	.00	9.02	.00	.000	.035	.000	.000	6726.00	1269.37
.013362	520.	478.	512.	20	8	0	.00	180.83	1450.20

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

*SECNO 125.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

125.00	6.37	6738.37	6738.37	.00	6740.07	1.70	5.75	.13	6736.00
4100.	251.	3849.	0.	50.	359.	0.	1835.	412.	6738.00
1.50	5.00	10.72	1.31	.035	.035	.035	.000	6732.00	1039.20
.009374	460.	520.	360.	3	14	0	.00	126.28	1165.48

*SECNO 126.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

126.00	7.12	6747.12	6747.12	.00	6748.09	.98	5.98	.07	6746.00
4100.	31.	3363.	706.	12.	392.	181.	1843.	416.	6746.00
1.52	2.47	8.57	3.90	.035	.035	.035	.000	6740.00	1091.69
.007369	580.	728.	720.	4	8	0	.00	294.78	1386.46

CNO 127.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

127.00	9.81	6755.81	6755.81	.00	6757.98	2.17	3.89	.36	6754.00
4100.	10.	3329.	761.	3.	263.	108.	1848.	418.	6752.00
1.54	3.19	12.68	7.07	.035	.035	.035	.000	6746.00	1000.39
.007506	560.	524.	520.	20	11	0	.00	84.84	1085.22

*SECNO 128.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

128.00	9.22	6763.22	6763.22	.00	6764.74	1.52	3.90	.06	6760.00
4100.	46.	3310.	744.	10.	306.	171.	1854.	420.	6760.00
1.55	4.75	10.81	4.35	.035	.035	.035	.000	6754.00	1000.78
.005540	472.	616.	580.	9	11	0	.00	183.40	1184.17

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	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 129.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

129.00	7.77	6769.77	6769.77	.00	6771.90	2.13	4.35	.18	6770.00
4100.	0.	4100.	0.	0.	350.	0.	1860.	421.	6770.00
1.57	.00	11.72	.00	.000	.035	.000	.000	6762.00	1006.47
.012240	568.	560.	440.	20	15	0	.00	85.30	1091.77

*SECNO 130.000

3301 HV CHANGED MORE THAN HVINS

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

130.00	8.12	6774.12	.00	.00	6774.60	.48	2.54	.16	6772.00
4100.	68.	3838.	194.	34.	669.	97.	1868.	424.	6772.00
1.60	2.00	5.73	2.00	.035	.035	.035	.000	6766.00	1033.74
.001908	688.	648.	632.	4	0	0	.00	242.02	1275.76

*SECNO 131.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

131.00	3.55	6789.55	6789.55	.00	6790.95	1.40	2.04	.27	6790.00
4100.	0.	4100.	0.	0.	433.	0.	1875.	426.	6792.00
1.61	.00	9.48	.00	.000	.035	.000	.000	6786.00	1194.23
.012933	480.	512.	500.	20	14	0	.00	156.88	1351.10

*SECNO 132.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

132.00	4.14	6798.14	6798.14	.00	6799.44	1.30	6.94	.01	6800.00
4120.	0.	4120.	0.	0.	450.	0.	1881.	428.	6798.00
1.63	.00	9.15	.05	.000	.035	.035	.000	6794.00	1145.44
.012979	456.	536.	568.	4	8	0	.00	173.69	1319.14

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SECNO	DEPTH	CWSEL	CRWS	WSELK	ES	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 133.000

133.00	4.57	6804.57	6804.53	.00	6805.77	1.20	6.32	.01	6804.00
4120.	7.	4113.	0.	4.	467.	0.	1886.	430.	6806.00
1.65	2.06	8.81	.00	.035	.035	.000	.000	6800.00	1075.43
.012521	584.	496.	416.	4	8	0	.00	196.85	1272.29

*SECNO 134.000

134.00	4.55	6810.55	.00	.00	6811.70	1.15	5.92	.01	6812.00
4120.	0.	4118.	2.	0.	478.	1.	1892.	433.	6810.00
1.66	.00	8.62	1.73	.000	.035	.035	.000	6806.00	1012.89
.009299	256.	552.	580.	2	0	0	.00	158.98	1171.88

*SECNO 135.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

135.00	4.15	6818.15	6818.15	.00	6819.45	1.30	5.42	.04	6820.00
4120.	0.	4120.	0.	0.	450.	0.	1897.	434.	6820.00
1.68	.00	9.16	.00	.000	.035	.000	.000	6814.00	1022.83
.013516	480.	488.	460.	10	11	0	.00	177.46	1200.29

*SECNO 136.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

136.00	3.20	6827.20	6827.20	.00	6828.38	1.17	7.13	.01	6832.00
4120.	0.	4120.	0.	0.	474.	0.	1903.	437.	6832.00
1.69	.00	8.69	.00	.000	.035	.000	.000	6824.00	1152.73
.013906	540.	520.	488.	4	11	0	.00	207.29	1360.02

*SECNO 137.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

137.00	6.11	6834.11	6834.11	.00	6835.40	1.29	4.88	.04	6836.00
4120.	0.	4120.	0.	0.	452.	0.	1907.	438.	6838.00
1.71	.00	9.12	.71	.000	.035	.035	.000	6828.00	1055.44
.013207	460.	360.	352.	3	17	0	.00	181.43	1362.47

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 138.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

138.00	2.64	6842.64	6842.64	.00	6843.77	1.14	6.04	.02	6846.00
3230.	0.	3230.	0.	0.	378.	0.	1911.	440.	6846.00
1.72	.00	8.55	.00	.000	.035	.000	.000	6840.00	1166.91
.013833	488.	448.	400.	8	14	0	.00	168.17	1335.09

*SECNO 139.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

139.00	3.62	6853.62	6853.62	.00	6854.57	.95	8.80	.02	6854.00
3230.	0.	3230.	0.	0.	412.	0.	1916.	443.	6856.00
1.74	.00	7.83	.00	.000	.035	.000	.000	6850.00	1340.07
.014576	600.	620.	630.	9	11	0	.00	218.02	1558.09

*SECNO 140.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

93 PROBABLE MINIMUM SPECIFIC ENERGY

0 CRITICAL DEPTH ASSUMED

140.00	2.83	6870.83	6870.83	.00	6871.53	.70	14.89	.03	6874.00
3230.	0.	3230.	0.	0.	481.	0.	1926.	449.	6874.00
1.78	.00	6.71	.00	.000	.035	.000	.000	6868.00	1386.49
.016907	800.	950.	1000.	20	19	0	.00	358.51	1745.00

CCHV= .300 CEHV= .500

*SECNO 141.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

141.00	6.54	6880.54	6880.54	.00	6882.63	2.10	3.59	.70	6882.00
3230.	0.	3230.	0.	0.	278.	0.	1930.	452.	6882.00
1.79	.00	11.62	.00	.000	.020	.000	.000	6874.00	1400.00
.004191	480.	480.	468.	5	17	0	.00	67.03	1467.03

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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	YNL	YNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	2.50	.00	78.00	.00	468.00	.00	6874.00	6874.20

*SECNO 141.100

6070,LOW FLOW BY NORMAL BRIDGE

EGPRS= 6881.646 EGLWC= 6882.850 ELLC= 6880.000 PCWSE= 6880.537 ELTRD= 6882.000

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF 6880.000 EGLC= 6883.048 EGC= 6884.110 WSEL= 6883.420

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF 6880.000 EGLC= 6883.048 EGC= 6883.052 WSEL= 6879.993

3301 HV CHANGED MORE THAN HVINS

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

3370 NORMAL BRIDGE, NRD= 7 MIN ELTRD= 6882.00 MAX ELLC= 6880.00

141.10	6.13	6880.33	6880.00	.00	6883.38	3.05	.27	.48	6882.20
3230.	0.	3230.	0.	0.	231.	0.	1931.	452.	6882.20
1.79	.00	14.01	.00	.000	.020	.000	.000	6874.20	1400.00
.016482	36.	36.	36.	4	20	0	-20.58	63.96	1463.96

CDHV= .100 CEHV= .300

*SECNO 142.000

3301 HV CHANGED MORE THAN HVINS

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

142.00	4.89	6886.89	.00	.00	6887.24	.35	3.59	.27	6888.00
3230.	0.	3230.	0.	0.	680.	0.	1936.	454.	6888.00
1.83	.00	4.75	.00	.000	.035	.000	.000	6882.00	1151.89
.003385	600.	560.	528.	4	0	0	.00	254.31	1406.20

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

*SECNO 143.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

143.00	1.60	6893.60	6893.60	.00	6894.77	1.17	2.79	.25	6896.00
3230.	0.	3230.	0.	0.	372.	0.	1942.	456.	6896.00
1.84	.00	8.68	.00	.000	.035	.000	.000	6890.00	1123.59
.013937	540.	460.	392.	20	19	0	.00	162.86	1286.45

*SECNO 144.000

144.00	4.74	6900.74	6900.73	.00	6901.90	1.16	7.12	.00	6906.00
3230.	0.	3230.	0.	0.	374.	0.	1946.	458.	6906.00
1.86	.00	8.65	.00	.000	.035	.000	.000	6896.00	1181.17
.013985	560.	512.	520.	6	11	0	.00	163.98	1345.15

*SECNO 145.000

145.00	3.21	6907.21	.00	.00	6908.05	.84	6.12	.03	6910.00
3230.	0.	3230.	0.	0.	439.	0.	1951.	460.	6908.00
1.88	.00	7.35	.00	.000	.035	.000	.000	6904.00	1122.62
.012129	520.	472.	460.	4	0	0	.00	222.63	1345.25

*SECNO 146.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

146.00	4.21	6918.21	6918.21	.00	6919.56	1.35	6.98	.15	6922.00
2630.	0.	2630.	0.	0.	282.	0.	1955.	462.	6922.00
1.89	.00	9.31	.00	.000	.035	.000	.000	6914.00	1063.36
.013343	572.	552.	552.	19	11	0	.00	106.77	1170.13

*SECNO 147.000

147.00	5.05	6925.05	.00	.00	6926.00	.96	6.41	.04	6926.00
2630.	0.	2630.	0.	0.	335.	0.	1959.	463.	6926.00
1.91	.00	7.85	.00	.000	.035	.000	.000	6920.00	1123.82
.010919	280.	532.	620.	4	0	0	.00	141.78	1265.60

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 148.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

148.00	4.83	6934.83	6934.83	.00	6936.05	1.21	7.48	.08	6936.00
2630.	0.	2630.	0.	0.	298.	0.	1963.	465.	6938.00
1.93	.00	8.84	.00	.000	.035	.000	.000	6930.00	1080.66
.014374	668.	600.	504.	10	11	0	.00	129.01	1209.67

*SECNO 149.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

149.00	4.84	6940.84	6940.84	.00	6942.12	1.28	5.85	.02	6942.00
2630.	0.	2630.	0.	0.	289.	0.	1966.	466.	6942.00
1.94	.00	9.09	.00	.000	.035	.000	.000	6936.00	1328.11
.013515	296.	420.	572.	3	5	0	.00	115.46	1443.57

*SECNO 150.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

150.00	5.97	6947.97	.00	.00	6948.80	.84	6.64	.04	6948.00
2630.	0.	2630.	0.	0.	358.	0.	1971.	468.	6950.00
1.96	.00	7.34	.00	.000	.035	.000	.000	6942.00	1048.07
.009813	564.	580.	528.	3	0	0	.00	154.28	1202.35

*SECNO 151.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

151.00	6.15	6956.15	6956.15	.00	6957.42	1.27	4.38	.13	6954.00
2630.	215.	2333.	82.	49.	247.	19.	1974.	470.	6954.00
1.98	4.44	9.46	4.41	.035	.035	.035	.000	6950.00	1027.54
.009045	524.	464.	384.	12	8	0	.00	127.08	1154.62

*SECNO 152.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

152.00	4.15	6964.15	6964.15	.00	6965.48	1.33	5.94	.02	6966.00
2630.	0.	2630.	0.	0.	285.	0.	1978.	471.	6966.00
2.00	.00	9.24	.00	.000	.035	.000	.000	6960.00	1063.70
.013626	580.	540.	472.	15	19	0	.00	110.45	1174.15

SAND CREEK
DRAINAGE BASIN PLANNING STUDY
Preliminary Design Report
Technical Addendum

**Future Condition HEC-2 Output
Sand Creek, 10-year Discharge**

SUMMARY OF CROSS-SECTION LOCATIONS

XSEC NO.	STREET NAME
C 5.1	LAS VEGAS STREET
C 7.1	A.T.&S.F. R.R.
C 12.1	HANCOCK EXPRESSWAY
C 19.1	SOUTH ACADEMY BLVD.
C 23.1	CHELTON ROAD
C 29.1	FOUNTAIN BOULEVARD
C 41.1	AIRPORT ROAD
C 54.1	PLATTE AVE. (US.24)
C 60	GALLEY ROAD
C 70.1	PALMER PARK BRIDGE
C 74.1	POWERS BOULEVARD
C 80	CHICAGO, ROCK ISLAND & PACIFIC RR
C 82.1	CONSTITUTION AVE
C 94.1	NORTH CAREFREE AVE.
C 102.1	BARNES ROAD
C 114.1	STETSON HILLS BLVD.
C 141.1	WOODMEN ROAD

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THIS RUN EXECUTED 0 14/96 8: 5:26

XX
HEQ2 RELEASE DATED SEP 88 UPDATED APR 1989

ERROR CORR = 01.02
MODIFICATION =

XX

T1 SAND CREEK DRAINAGE BASIN PLANNING STUDY 05-04-05
T2 10- YEAR FLOW, MAINSTEM, FUTURE DEVELOPMENT DISCHARGES
T3 FILENAME: S0MAINST.DAT XSEC L TO R FACING UPSTREAM

J1	ICHECK	INB	VINV	IDIP	STRT	METRIC	HVING	Q	WSBL	FD
	-10	3	0	0	0	0	0	0	5790	
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	-1							

SECD	DEPTH	CWSEL	CRWS	WSELK	ES	HV	HL	GLDSS	PANK	ELEV
S	GLDB	GCH	GRDB	ALDB	ACH	ARDB	VDL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VRDB	XNL	XNDH	XNR	WTN	ELMIN	SBTA	
SLOPE	YLOBL	YCH	YLOBR	YTRIAL	YDB	YDNT	YDRAB	TOPWID	ENDET	

*PROF 1

CDHV= .100 DEHV= .100

#SECD 1.000

1.00	9.00	5793.00	.00	5793.00	5795.00	1.36	.00	.00	5798.00	
11820.	0.	11809.	11.	0.	1025.	7.	0.	0.	5772.00	
.00	.00	11.52	1.64	.000	.025	.030	.000	5784.00	1045.00	
.002757	0.	0.	0.	0	0	0	.00	154.00	1200.00	

#SECD 2.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

2.00	7.11	5797.11	5797.11	.00	5798.94	1.33	1.33	.02	5808.00	
11750.	0.	11016.	734.	0.	985.	243.	12.	3.	5800.00	
.01	.00	11.19	3.02	.000	.025	.030	.000	5799.00	1237.78	
.003296	410.	440.	480.	20	15	0	.00	385.87	1682.77	

#SECD 3.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3.00	4.23	5802.23	5802.23	.00	5804.29	2.00	2.39	.07	5812.00	
11750.	0.	11750.	0.	0.	1019.	0.	26.	7.	5812.00	
.02	.00	11.53	.00	.000	.025	.030	.000	5798.00	1041.77	
.005755	500.	556.	640.	20	11	0	.00	246.40	1288.22	

#SECD 4.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

4.00	4.80	5808.80	5808.80	.00	5810.60	1.80	2.73	.03	5816.00	
11750.	0.	11699.	51.	0.	1083.	17.	39.	10.	5810.00	
.04	.00	10.80	3.04	.000	.025	.030	.000	5804.00	1085.60	
.005717	516.	510.	600.	20	8	0	.00	314.39	1460.80	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	CLOSS	BANK ELEV
3	GLDB	GCH	GRDB	ALDB	ACH	ARDB	VDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SETA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	IDCNT	CDRAF	TOPWID	ENDET

CDHV= .300 CEHV= .500
#SECNO 3.000

3701 PV CHANGED MORE THAN HVINS

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

5.00	6.08	5818.08	5818.08	.00	5820.86	2.78	3.02	.49	5929.50
11750.	0.	11750.	0.	0.	878.	0.	51.	13.	5929.50
.05	.00	13.39	.00	.000	.025	.000	.000	5812.00	1275.00
.005693	600.	530.	450.	20	11	0	.00	160.00	1435.00

SPECIAL BRIDGE

5070. VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
5227 DOWNSTREAM ELEV IS 5816.85 , NOT 5818.08 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	KK	KKOR	CCFB	ROLEN	BWC	BWF	BAREA	SB	ELCHU	ELCHD
1.25	1.50	2.50	.00	160.00	4.00	1560.00	.00	5812.00	5812.00	

#SECNO 5.100
CLASS 5 LOW FLOW

3420 BRIDGE W.B.= 5817.61 BRIDGE VELOCITY= 13.43 CALCULATED CHANNEL AREA= 875.

EGPRS	EGLWC	K3	QWEIR	GLDW	BAREA	TRAPEZOID AREA	ELLC	ELTFD	WEIRLN
.00	5820.92	.00	0.	11750.	1560.	1732.	5820.10	5829.50	0.

LAS VEGAS STREET

5.10	6.60	5818.60	.00	.00	5820.92	2.72	.06	.00	5929.50
11750.	0.	11750.	0.	0.	961.	0.	51.	13.	5929.50
.05	.00	12.23	.00	.000	.025	.000	.000	5812.00	1275.00
.004245	25.	25.	25.	0	0	0	.00	160.00	1435.00

CDHV= .100 CEHV= .300
#SECNO 5.000

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

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SECDN	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROE	VDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNOH	XNR	ATN	ELMIN	SSTA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDO	ICONT	CONAR	TOPWID	ENEST

6.00	4.65	5822.65	5822.65	.00	5824.58	1.93	2.50	.04	5830.00
11750.	0.	11750.	0.	0.	1055.	0.	53.	16.	5826.00
.06	.00	11.14	.00	.000	.025	.000	.000	5818.00	1028.36
.005954	540.	500.	510.	20	19	0	.00	277.60	1303.96

COHV= .300 CEHV= .500

*SECDN 7.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

7.00	6.41	5830.41	5830.41	.00	5832.21	1.90	2.89	.04	5846.40
11630.	0.	11630.	0.	0.	1079.	0.	74.	19.	5848.40
.07	.00	10.78	.00	.000	.025	.000	.000	5824.00	1386.73
.006077	505.	480.	435.	20	11	0	.00	303.47	1690.21

SPECIAL BRIDGE

5070. VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	XX	XKOR	COFG	ROLEN	BWC	BWF	BAREA	SS	ELCHU	ELCHD
1.20	1.50	2.50	.00	485.00	37.00	4930.00	.00	5824.00	5824.00	

*SECDN 7.100

1860 XLOEL OF 58445.00 EXCEEDS RDEL OF 5848.40

3301 HV CHANGED MORE THAN HVINS

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

CLASS A LOW FLOW

3420 BRIDGE W.S.= 5830.36 BRIDGE VELOCITY= 4.08 CALCULATED CHANNEL AREA= 1880.

ESPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	5832.53	1.14	0.	11630.	4930.	9766.	5845.80	5848.40	0.

A.T.&S.F. R.R.

7.10	7.54	5831.54	.00	.00	5832.53	.98	.32	.00	5848.40
11630.	0.	11630.	0.	0.	1481.	0.	75.	19.	5848.40
.07	.00	7.96	.00	.000	.025	.000	.000	5824.00	1349.54
.002871	10.	10.	10.	0	0	0	.00	368.75	1718.59

SECDN	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOES	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	QDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	BSTA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CDHV= .100 CDHV= .300

#SECDN 8.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3.00	5.31	5835.31	5835.31	.00	5837.33	2.02	1.70	.31	5836.00
11630.	0.	11630.	0.	0.	1021.	0.	87.	22.	5842.00
.09	.00	11.39	.00	.000	.025	.000	.000	5830.00	1151.51
.005798	415.	430.	430.	20	12	0	.00	252.91	1404.43

#SECDN 9.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

9.00	5.81	5842.81	5842.81	.00	5845.28	2.47	3.33	.14	5856.00
11630.	0.	11630.	0.	0.	922.	0.	100.	25.	5862.00
.10	.00	12.61	.00	.000	.025	.000	.000	5837.00	1152.97
.005500	560.	590.	600.	20	8	0	.00	188.66	1341.63

#SECDN 10.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

10.00	7.63	5851.53	5851.53	.00	5854.71	3.16	2.94	.21	5858.00
11610.	0.	11610.	0.	0.	811.	0.	111.	27.	5856.00
.11	.00	14.31	.00	.000	.025	.000	.000	5844.00	1130.38
.005214	590.	550.	615.	20	11	0	.00	130.49	1311.37

#SECDN 11.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

11.00	6.95	5857.35	5857.35	.00	5860.14	2.78	2.90	.04	5868.00
11610.	0.	11610.	0.	0.	867.	0.	122.	29.	5862.00
.12	.00	13.39	.00	.000	.025	.000	.000	5850.50	1126.50
.005325	550.	550.	550.	20	11	0	.00	158.01	1284.51

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SECDN	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLSSB	BANK ELEV
3	QLOB	QCH	QROB	ALOB	ACH	AROB	ROL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNOH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	IDONT	CDRAR	TOPWID	ENDST

CDHV= .300 CDHV= .500

SPECIAL BRIDGE

5070. VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	XK	XKOR	COFG	RDLEN	BWC	BWF	SAREA	SE	ELCHU	ELCHD
	1.05	1.50	2.50	.00	160.00	9.20	1120.00	.00	5850.50	5850.50

#SECDN 12.000

PRESS FLOW BECAUSE EGLWC OF 5965.66 EXCEEDS 1.8 DEPTH

6110 EGLWC OF 5859.86 LESS THAN XEG OF 5860.14

PRESSURE FLOW

EBPRS	EGLWC	H3	QWEIR	QFR	SAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
5859.86	5965.66	1.52	0.	11610.	1120.	2187.	5865.00	5876.00	0.

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3710 WSEL ASSUMED BASED ON MIN DIFF

12.00	5.70	5863.70	.00	.00	5866.22	2.52	.00	.00	5876.00
11610.	0.	11610.	0.	0.	912.	0.	134.	31.	5876.00
.13	.00	12.73	.00	.000	.020	.000	.000	5858.00	1200.00
.003158	590.	590.	590.	20	0	0	.00	160.00	1760.00

SPECIAL BRIDGE

5070. VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

5227 DOWNSTREAM ELEV IS 5862.53 , NOT 5863.70 HYDRAULIC JUMP OCCURS DOWNSTREAM IF LOW FLOW CONTROLS:

SB	XK	XKOR	COFG	RDLEN	BWC	BWF	SAREA	SE	ELCHU	ELCHD
	1.05	1.50	2.50	.00	160.00	9.20	1120.00	.00	5858.00	5858.00

#SECDN 12.100

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE. NRD= 11 MIN ELTRD= .00 MAX ELLC= 5876.00

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

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SECD	DEPTH	CWSEL	CRIME	WSELK	EG	HV	HL	QLOSS	BANK	ELEV
2	QLOB	QCH	QROB	ALOB	ACH	AROB	COL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	BETA	
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	IDCNT	ICRAR	ICPAID	ENEST	

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

HANCOCK EXPRESSWAY

12.10	7.38	5875.78	5875.78	.00	5875.78	1.89	1.36	.49	5875.00	
11610.	0.	6930.	4677.	0.	306.	649.	170.	32.	5875.00	
.14	.00	8.67	5.51	.000	.020	.020	.000	5868.00	1600.00	
.004217	100.	100.	100.	20	8	0	-180.00	204.76	2525.25	

CDRV= .100 CEHV= .300

#SECD 13.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

13.00	4.76	5878.26	5878.26	.00	5880.57	2.27	2.42	.41	5881.00	
11300.	0.	11300.	0.	0.	938.	0.	.31.	39.	5880.00	
.15	.00	12.09	.00	.000	.025	.030	.000	5873.50	1351.61	
.005649	500.	500.	500.	20	14	0	.00	208.03	1559.64	

#SECD 14.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

14.00	4.79	5884.79	5884.79	.00	5886.57	1.78	2.37	.05	5890.00	
11300.	0.	10417.	883.	0.	940.	207.	167.	42.	5882.00	
.16	.00	11.08	4.27	.000	.025	.035	.000	5880.00	1610.83	
.004701	500.	500.	500.	20	5	0	.00	326.70	1947.75	

#SECD 15.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

15.00	5.44	5891.84	5891.84	.00	5894.79	2.55	2.55	.23	5892.00	
11300.	0.	11300.	0.	0.	882.	0.	175.	45.	5894.00	
.17	.00	12.81	.00	.000	.025	.000	.000	5886.40	1260.26	
.005437	505.	505.	505.	20	8	0	.00	174.04	1434.32	

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SECDN	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLDSS	BANK ELEV
G	GLDB	QCH	GRDB	ALOB	ACH	ARDB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	BETA
SLOPE	XLDBL	KLCH	KLOBR	ITRIAL	IDC	ICDNT	CDRAR	TOPWID	ENDST

*SECNO 16.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

16.00	6.99	5898.49	5898.49	.00	5901.16	2.67	.00	.04	5902.00
11300.	0.	11300.	0.	0.	862.	0.	175.	45.	5902.00
.17	.00	13.11	.00	.000	.025	.000	.000	5892.50	1284.73
.005358	500.	0.	500.	20	8	0	.00	162.53	1447.61

*SECNO 17.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

17.00	6.36	5903.66	5903.66	.00	5906.53	2.87	2.13	.06	5906.00
11300.	0.	11300.	0.	0.	831.	0.	183.	46.	5912.00
.18	.00	13.60	.00	.000	.025	.000	.000	5897.30	1346.72
.005262	400.	400.	400.	20	8	0	.00	146.26	1492.98

*SECNO 18.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

18.00	6.76	5909.76	5909.76	.00	5912.52	2.76	2.12	.01	5912.00
11300.	0.	11300.	0.	0.	848.	0.	191.	48.	5916.00
.19	.00	13.33	.00	.000	.025	.000	.000	5903.00	1179.92
.005338	400.	400.	400.	20	8	0	.00	155.69	1335.51

CDRV= .100 CERV= .300

*SECNO 19.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

19.00	5.28	5915.28	5915.28	.00	5917.49	2.21	2.47	.05	5932.00
11300.	0.	11300.	0.	0.	947.	0.	202.	50.	5930.00
.20	.00	11.93	.00	.000	.020	.000	.000	5910.00	1433.62
.003650	680.	565.	450.	20	15	0	.00	216.93	1650.55

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SECND	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
3	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	KLOBL	KLOCH	KLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

SPECIAL BRIDGE

5070. VARIABLE ELCHU OR ELCHD ON B3 CARD NOT SPECIFIED

5227 DOWNSTREAM ELEV IS 5914.56 . NOT 5915.29 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

B3	XK	XKOR	COFB	RDLEN	BWC	BWP	BAREA	BB	ELCHU	ELCHD
	1.03	1.50	2.50	.00	150.00	10.00	2980.00	1.00	5910.00	5910.00

#SECND 19.100

CLASS B LOW FLOW

3420 BRIDGE W.B.= 5915.79 BRIDGE VELOCITY= 13.39 CALCULATED CHANNEL AREA= 844.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	5919.77	.00	0.	11300.	2980.	2582.	5926.50	5930.00	0.

SOUTH ACADEMY BLVD.

19.10	7.33	5917.33	.00	.00	5919.77	2.44	2.29	.00	5932.00
11300.	0.	11300.	0.	0.	901.	0.	206.	51.	5930.00
.21	.00	12.55	.00	.000	.020	.000	.000	5910.00	1270.95
.002646	160.	160.	160.	0	0	0	.00	142.63	1413.98

CCHV= .100 CEHV= .300

#SECND 20.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

20.00	6.47	5926.47	5926.47	.00	5929.22	2.75	1.76	.02	5928.00
11860.	0.	11860.	0.	0.	891.	0.	216.	52.	5928.00
.22	.00	13.32	.00	.000	.025	.000	.000	5920.00	1152.69
.005315	340.	480.	620.	20	11	0	.00	163.17	1313.05

#SECND 21.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

21.00	6.02	5932.62	5932.62	.00	5935.45	2.83	2.79	.02	5938.00
11860.	0.	11860.	0.	0.	879.	0.	226.	54.	5936.00
.23	.00	13.50	.00	.000	.025	.000	.000	5926.60	1146.02
.005323	520.	625.	830.	20	11	0	.00	156.79	1302.81

SECD	DEPTH	OWSEL	OWS	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	XLOH	XLOBR	ITRIAL	IDC	IDCNT	CORAR	TOPWID	ENDST

#SECD 22.000

3685 20 TRIALS ATTEMPTED WSEL,OWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

22.00	5.60	5939.60	5939.60	.00	5942.56	2.97	2.64	.04	5944.00
11860.	0.	11860.	0.	0.	958.	0.	236.	56.	5944.00
.24	.00	13.82	.00	.000	.025	.000	.000	5933.00	1156.00
.005221	500.	500.	500.	20	8	0	.00	146.00	1302.00

COHV= .300 CEHV= .500

#SECD 23.000

3685 20 TRIALS ATTEMPTED WSEL,OWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

23.00	4.93	5950.93	5950.93	.00	5953.42	2.49	1.72	.14	5959.70
11860.	0.	11860.	0.	0.	937.	0.	247.	58.	5959.70
.25	.00	12.66	.00	.000	.016	.000	.000	5946.00	1975.00
.002368	445.	510.	565.	20	15	0	.00	190.00	2165.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 5950.81 , NOT 5950.93 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.60	.00	150.00	8.33	1025.40	.00	5947.00	5946.00

#SECD 23.100

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. X-RATIO = 2.44

CLASS B LOW FLOW

7420 BRIDGE W.S.= 5952.52 BRIDGE VELOCITY= 13.92 CALCULATED CHANNEL AREA= 781.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
5954.05	5955.38	.00	0.	11860.	1025.	992.	5954.00	5959.70	0.

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CHELTON ROAD

23.10	3.55	5954.55	.00	.00	5955.36	.83	1.78	.00	5959.70
11860.	0.	11860.	0.	0.	1625.	0.	250.	58.	5959.70
.25	.00	7.30	.00	.000	.016	.000	.000	5948.00	1975.00
.000386	100.	100.	100.	0	0	0	.00	190.00	2165.00

DCHV= .100 CEHV= .300

#SECNO 24.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

24.00	6.03	5958.03	5958.03	.00	5960.74	2.71	.44	.56	5958.00
11860.	0.	11860.	0.	0.	898.	0.	263.	60.	5958.00
.26	.03	13.20	.03	.035	.025	.000	.000	5952.00	1351.55
.005389	500.	450.	380.	20	19	0	.00	168.58	1520.14

#SECNO 25.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

25.00	5.91	5962.91	5962.91	.00	5965.71	2.80	2.43	.03	5964.00
11860.	0.	11860.	0.	0.	882.	0.	272.	62.	5966.00
.27	.00	13.44	.00	.000	.025	.000	.000	5957.00	1061.58
.005417	450.	450.	450.	20	5	0	.00	160.87	1222.44

#SECNO 26.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

26.00	5.87	5968.87	5968.87	.00	5971.63	2.76	2.70	.00	5974.00
11860.	0.	11860.	0.	0.	889.	0.	282.	64.	5970.00
.28	.00	13.33	.00	.000	.025	.000	.000	5963.00	1124.33
.005369	500.	500.	500.	20	5	0	.00	163.24	1287.57

#SECNO 27.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

27.00	5.78	5977.78	5977.78	.00	5980.24	2.47	2.73	.03	5980.00
10840.	0.	10840.	0.	0.	860.	0.	292.	66.	5982.00
.29	.00	12.60	.00	.000	.025	.000	.000	5972.00	1067.41
.005567	500.	500.	500.	20	5	0	.00	177.88	1245.29

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	XLOH	XLOBR	ITRIAL	IDC	IDCNT	DORAP	TOPWID	ENDST

#SECNO 28.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

28.00	5.28	5983.28	5983.28	.00	5985.66	2.38	2.78	.01	5986.00
10840.	0.	10840.	0.	0.	876.	0.	302.	68.	5988.00
.30	.00	12.38	.00	.000	.025	.000	.000	5978.00	1042.81
.005561	495.	500.	505.	20	11	0	.00	186.28	1229.08

CEHV= .300 CEHV= .500

#SECNO 29.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

29.00	5.15	5991.85	5991.85	.00	5994.24	2.38	2.47	.00	6003.30
10840.	0.	10840.	0.	0.	875.	0.	311.	70.	6003.30
.31	.00	12.39	.00	.000	.025	.000	.000	5986.70	1494.47
.005520	420.	445.	460.	20	8	0	.00	184.50	1678.97

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 5991.33 . NOT 5991.85 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.50	.00	156.00	3.50	1850.00	2.60	5988.00	5986.70

#SECNO 29.100

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.82

CLASS B LOW FLOW

3420 BRIDGE W.S.= 5992.58 BRIDGE VELOCITY= 12.48 CALCULATED CHANNEL AREA= 753.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	5995.12	.00	0.	10840.	1850.	1683.	5997.50	6004.40	0.

FOUNTAIN BOULEVARD

29.10	7.32	5994.92	.00	.00	5995.12	1.10	.88	.00	6003.30
10840.	0.	10840.	0.	0.	1288.	0.	314.	70.	6003.30
.32	.00	8.42	.00	.000	.025	.000	.000	5986.70	1487.36
.001668	130.	130.	130.	0	0	0	.00	196.88	1684.84

DOHV= .100 CEHV= .300

*SECNO 30.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

30.00	5.62	5999.92	5999.92	.00	6002.47	2.56	1.37	.44	6004.00
10520.	0.	10520.	0.	0.	820.	0.	326.	72.	6002.00
.33	.00	12.83	.00	.000	.025	.000	.000	5994.30	1312.63
.005446	500.	500.	500.	20	15	0	.00	161.96	1474.59

*SECNO 31.000

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

31.00	5.63	6005.83	6005.83	.00	6008.40	2.57	2.72	.00	6010.00
10520.	0.	10520.	0.	0.	817.	0.	336.	74.	6010.00
.34	.00	12.87	.00	.000	.025	.000	.000	6000.20	1185.64
.005441	500.	500.	500.	20	5	0	.00	160.43	1346.08

*SECNO 32.000

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

32.00	5.81	6011.81	6011.81	.00	6014.50	2.69	2.55	.00	6024.00
10520.	0.	10520.	0.	0.	799.	0.	344.	76.	6013.00
.35	.00	13.16	.00	.000	.025	.000	.000	6006.00	1247.08
.005389	470.	470.	470.	20	8	0	.00	150.03	1357.11

*SECNO 33.000

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

33.00	5.35	6019.35	6019.35	.00	6021.63	2.28	.17	.04	6024.00
10520.	0.	10520.	0.	0.	868.	0.	345.	76.	6020.00
.35	.00	12.12	.00	.000	.025	.000	.000	6014.00	1322.52
.005683	30.	30.	30.	20	9	0	.00	194.25	1516.77

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	XLOH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 34.000

3301 HV CHANGED MORE THAN HVINS

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

34.00	4.15	6026.15	6026.15	.00	6027.92	1.78	2.79	.05	6025.00	
10520.	78.	10441.	0.	36.	972.	0.	356.	79.	6026.00	
.36	2.17	10.74	.55	.035	.025	.035	.000	6022.00	1127.00	
.005498	490.	500.	530.	20	15	0	.00	323.46	1450.46	

*SECNO 35.000

3301 HV CHANGED MORE THAN HVINS

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

35.00	5.29	6033.59	6033.59	.00	6035.97	2.39	3.06	.18	6032.00	
8610.	81.	8529.	0.	30.	685.	0.	367.	82.	6042.00	
.38	2.68	12.45	.00	.035	.025	.000	.000	6028.30	1199.93	
.005440	480.	560.	500.	20	13	0	.00	179.37	1379.29	

*SECNO 36.000

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

36.00	6.12	6042.12	6042.12	.00	6044.76	2.64	2.70	.08	6042.00	
8610.	0.	8610.	0.	0.	660.	0.	375.	84.	6042.00	
.39	.03	13.04	.03	.035	.025	.035	.000	6036.00	1228.47	
.005346	500.	500.	500.	20	8	0	.00	128.05	1356.55	

*SECNO 37.000

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

37.00	6.48	6047.48	6047.48	.00	6050.33	2.85	.00	.06	6050.00	
8610.	0.	8610.	0.	0.	636.	0.	375.	84.	6050.00	
.39	.00	13.55	.00	.000	.025	.000	.000	6041.00	1698.38	
.005523	500.	0.	500.	20	8	0	.00	116.03	1814.41	

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SECNO	DEPTH	OWSEL	OWRWS	WSELK	EG	HV	HL	OWLOS	BANK ELEV
9	QLOB	QCH	QROB	ALOB	ACH	AROB	COL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	IDONT	CORAR	TOPWID	ENDST

*SECNO 38.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,OWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

38.00	7.05	6057.05	6057.05	.00	6058.62	1.57	1.85	.13	6056.00
8610.	597.	7966.	46.	284.	763.	34.	384.	88.	6056.00
.40	2.10	10.44	1.42	.035	.025	.035	.000	6050.00	1340.18
.002647	500.	500.	500.	20	8	0	.00	501.92	1842.10

*SECNO 39.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,OWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

39.00	7.18	6063.18	6063.18	.00	6065.21	2.04	1.47	.14	6064.00
8790.	321.	8419.	50.	139.	720.	29.	396.	92.	6062.00
.41	2.30	11.69	1.71	.035	.025	.035	.000	6056.00	1082.05
.003283	500.	500.	500.	20	5	0	.00	326.07	1440.01

*SECNO 40.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,OWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

40.00	6.26	6068.26	6068.26	.00	6071.00	2.75	2.03	.21	6070.00
8790.	0.	8790.	0.	0.	661.	0.	405.	95.	6070.00
.42	.00	13.30	.00	.000	.025	.000	.000	6062.00	1384.36
.005357	530.	490.	480.	20	11	0	.00	121.28	1505.84

COHV= .300 CEHV= .500

*SECNO 41.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	CLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	QOL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VROB	XNL	XNOH	XNR	WTN	ELMIN	ESTA	
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	IDCNT	CORAR	TOPWID	ENDST	

41.00	5.53	6072.53	6072.53	.00	6075.01	2.48	2.24	.08	6081.00	
8790.	0.	8790.	0.	0.	693.	0.	413.	96.	6081.00	
.43	.00	12.64	.00	.000	.020	.000	.000	6087.00	1774.21	
.003528	550.	520.	440.	2	11	0	.00	141.59	1915.79	

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6071.91 . NOT 6072.53 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.15	1.50	2.50	.00	122.00	2.00	732.00	.00	6068.00	6067.00

*SECNO 41.100

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.79

PRESSURE FLOW

EGPRS	EGLWC	H3	BWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD	WEIRLN
						AREA			
6075.89	6075.61	.00	0.	8790.	732.	720.	6074.00	6081.50	0.

AIRPORT ROAD

41.10	7.74	6074.74	.00	.00	6075.89	1.15	.88	.00	6081.00
8790.	0.	8790.	0.	0.	1023.	0.	415.	97.	6081.00
.44	.00	8.59	.00	.000	.020	.000	.000	6087.00	1767.98
.001098	100.	100.	100.	3	0	0	.00	154.24	1922.12

DCHV= .100 DEHV= .300

*SECNO 42.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

42.00	4.89	6081.89	6081.89	.00	6084.15	2.26	1.06	.34	6090.00
8790.	0.	8790.	0.	0.	728.	0.	425.	99.	6088.00
.45	.00	12.07	.00	.000	.025	.000	.000	6077.00	1026.20
.005678	580.	500.	420.	20	14	0	.00	162.80	1189.00

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	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	CDRAS	TOPWID	ENDST	

*SECNO 43.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

43.00	3.83	6087.83	6087.83	.00	6089.66	1.83	2.82	.04	6098.00	
8790.	0.	8790.	0.	0.	810.	0.	434.	101.	6094.00	
.46	.00	10.85	.00	.000	.025	.000	.000	6084.00	1066.33	
.006028	500.	500.	500.	20	15	0	.00	223.23	1289.57	

*SECNO 44.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

44.00	6.41	6096.41	6096.41	.00	6099.38	2.97	3.71	.34	6104.00	
8790.	0.	477.	8313.	0.	41.	596.	442.	103.	6050.00	
.47	.00	11.61	13.95	.000	.025	.035	.000	6090.00	1455.16	
.009376	500.	500.	500.	20	14	0	.00	108.62	1564.01	

*SECNO 45.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

45.00	6.14	6103.84	6103.84	.00	6106.11	2.28	3.55	.07	6120.00	
8790.	0.	8790.	0.	0.	726.	0.	450.	104.	6106.00	
.48	.00	12.11	.00	.000	.025	.000	.000	6097.70	1326.23	
.005572	500.	500.	500.	20	8	0	.00	159.55	1483.79	

*SECNO 46.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

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

46.00	4.40	6109.40	6109.40	.00	6111.05	1.66	2.98	.06	6116.00
8790.	0.	8790.	0.	0.	851.	0.	459.	107.	6116.00
.50	.00	10.33	.00	.000	.025	.000	.000	6105.00	1146.60
.006399	510.	500.	490.	20	19	0	.00	261.11	1407.91

#SECNO 47.000

3265 DIVIDED FLOW

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

47.00	5.42	6116.82	6116.82	.00	6118.24	1.42	2.74	.02	6126.00
8790.	0.	6185.	2605.	0.	573.	465.	470.	110.	6120.00
.51	.00	10.79	5.61	.000	.025	.035	.000	6111.40	1219.75
.004761	500.	500.	500.	20	8	0	.00	327.55	1662.56

#SECNO 48.000

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

48.00	4.85	6122.85	6122.85	.00	6124.51	1.56	2.72	.07	6130.00
8790.	0.	8790.	0.	0.	851.	0.	460.	113.	6140.00
.52	.00	10.33	.00	.000	.025	.000	.000	6118.00	1279.89
.006269	500.	500.	500.	20	11	0	.00	260.67	1540.55

#SECNO 49.000

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

49.00	5.08	6134.08	6134.08	.00	6135.50	1.42	3.23	.02	6142.00
7200.	0.	7200.	0.	0.	753.	0.	490.	116.	6138.00
.54	.00	9.56	.00	.000	.025	.000	.000	6129.00	1315.68
.006778	480.	500.	570.	20	8	0	.00	274.84	1590.42

#SECNO 50.000

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

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
B	QLOB	QCH	GRGB	ALGB	ACH	ARGB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNOH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDET

50.00	3.64	6144.64	6144.64	.00	6145.96	1.32	3.31	.01	6156.00
7200.	0.	7200.	0.	0.	782.	0.	498.	120.	6152.00
.55	.00	9.21	.00	.000	.025	.000	.000	6141.00	1093.05
.006734	580.	490.	450.	20	19	0	.00	300.94	1393.99

#SECNO 51.000

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

51.00	3.19	6153.19	6153.19	.00	6154.54	1.35	3.33	.01	6160.00
7200.	0.	7200.	0.	0.	771.	0.	507.	123.	6160.00
.57	.00	9.33	.00	.000	.025	.000	.000	6150.00	1086.29
.006605	520.	500.	450.	20	11	0	.00	286.68	1372.97

#SECNO 52.000

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

52.00	3.05	6163.55	6163.55	.00	6164.45	.89	3.02	.05	6172.00
7200.	0.	4620.	2580.	0.	517.	609.	518.	123.	6162.00
.59	.00	8.93	4.23	.000	.025	.035	.000	6160.50	1190.64
.005543	500.	500.	500.	20	10	0	.00	573.25	1763.89

#SECNO 53.000

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

53.00	3.23	6170.28	6170.28	.00	6171.34	1.05	2.69	.05	6172.00
7200.	0.	6115.	1085.	0.	700.	245.	529.	134.	6168.00
.60	.00	8.73	4.44	.000	.025	.035	.000	6167.00	1107.16
.006754	300.	410.	530.	20	8	0	.00	476.99	1554.15

CCHV= .300 CEHV= .500

#SECNO 54.000

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

54.00	5.00	6181.00	6181.00	.00	6182.31	1.31	3.26	.13	6189.30
7200.	0.	7200.	0.	0.	784.	0.	538.	138.	6189.30
.62	.00	9.18	.00	.000	.025	.000	.000	6176.00	1809.97
.007088	450.	470.	480.	20	14	0	.00	314.43	2124.40

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
3	GLDB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XL	XNCH	XNR	WTN	ELMIN	SSFA
SLOPE	XLGBL	XLCH	XLORR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDET

SPECIAL BRIDGE

5070. VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	YK	YKOR	COFQ	SOLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.50	.00	360.00	12.00	2140.00	.00	6176.00	6176.00

#SECNO 54.100

CLASS A LOW FLOW

3420 BRIDGE W.S.= 6180.98 BRIDGE VELOCITY= 4.15 CALCULATED CHANNEL AREA= 1734.

EGPRS	EGLWC	H3	GWEIR	GLBW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	6182.34	.28	0.	7200.	2140.	3202.	6185.20	6189.30	0.

PLATTE AVE. (US.24)

54.10	5.28	6181.28	.00	.00	6182.34	1.06	.03	.00	6189.30
7200.	0.	7200.	0.	0.	873.	0.	540.	139.	6189.30
.62	.00	8.25	.00	.000	.025	.000	.000	6176.00	1807.16
.005031	90.	90.	90.	0	0	0	.00	317.77	2124.93

CDHV= .100 CEHV= .300

#SECNO 55.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

55.00	4.04	6189.04	6189.04	.00	6190.80	1.76	5.27	.21	6198.00
7180.	0.	7180.	0.	0.	674.	0.	549.	142.	6194.00
.63	.00	10.65	.00	.000	.030	.000	.000	6185.00	1065.67
.008850	500.	500.	500.	20	15	0	.00	194.20	1259.67

#SECNO 56.000

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

56.00	4.89	6196.89	6196.89	.00	6198.75	1.85	4.38	.03	6206.00
7180.	0.	7180.	0.	0.	658.	0.	557.	144.	6204.00
.65	.00	10.92	.00	.000	.030	.000	.000	6192.00	1045.32
.008688	500.	500.	500.	20	11	0	.00	179.80	1225.12

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
3	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNOH	XNR	WTN	ELMIN	BSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	IDCNT	CORAR	TOPWID	ENDER

#SECNO 57.000

3301 HV CHANGED MORE THAN HVINS

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

57.00	6.39	6205.39	6205.39	.00	6208.16	2.77	4.22	.28	6218.00
7180.	0.	7180.	0.	0.	538.	0.	564.	145.	6208.00
.66	.00	13.36	.00	.000	.030	.000	.000	6179.00	1021.59
.007871	495.	510.	510.	20	11	0	.00	98.28	1119.87

#SECNO 58.000

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

58.00	7.88	6214.88	6214.88	.00	6217.73	2.85	4.70	.02	6228.00
7180.	0.	7180.	0.	0.	530.	0.	571.	147.	6216.00
.67	.00	13.55	.00	.000	.030	.000	.000	6207.00	1114.99
.007798	635.	600.	650.	20	11	0	.00	94.43	1209.41

#SECNO 59.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

59.00	5.88	6223.88	6223.88	.00	6226.07	2.19	5.61	.07	6236.00
7180.	0.	7180.	0.	0.	605.	0.	580.	149.	6234.00
.69	.00	11.87	.00	.000	.030	.000	.000	6213.00	1351.64
.008246	680.	700.	700.	10	15	0	.00	139.45	1491.09

#SECNO 60.000

3301 HV CHANGED MORE THAN HVINS

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

BALLEY ROAD

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLDS	BANK	ELEV
9	QLOB	GCH	GROB	ALOB	ACH	AROB	VIL	TWA	LEFT/RIGHT	
TIME	VLOB	VCH	VRGB	XNL	XNCH	XNR	WTN	ELMIN	SETA	
SLOPE	XLOBL	XLCH	XLGBR	ITRIAL	IDC	IDCNT	CDRAF	TOPWID	ENDST	

60.00	3.81	6240.91	6240.91	.00	6241.79	.83	1.46	.13	6238.00	
7180.	1615.	4591.	974.	392.	521.	198.	584.	151.	6238.00	
.89	4.12	8.82	4.92	.035	.030	.035	.000	6237.10	1167.26	
.006297	210.	195.	290.	20	14	0	.00	619.13	1786.39	

*SECNO 61.000

3301 HV CHANGED MORE THAN HVINS

61.00	5.80	6242.80	.00	.00	6244.36	1.56	2.37	.20	6242.00	
7180.	6.	7174.	0.	4.	716.	0.	593.	154.	6246.00	
.71	1.62	10.02	.00	.035	.030	.000	.000	6237.00	1051.00	
.004964	460.	425.	370.	2	0	0	.00	154.45	1205.45	

*SECNO 62.000

3301 HV CHANGED MORE THAN HVINS

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

62.00	5.35	6245.35	6245.35	.00	6247.71	2.35	1.25	.24	6246.00	
7180.	0.	7180.	0.	0.	583.	0.	596.	155.	6246.00	
.71	.00	12.31	.00	.000	.030	.000	.000	6240.00	1046.23	
.008154	180.	200.	250.	20	11	0	.00	125.69	1173.92	

*SECNO 63.000

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

63.00	7.20	6252.20	6252.20	.00	6254.76	2.57	2.95	.06	6252.00	
7180.	0.	7085.	95.	0.	548.	24.	601.	156.	6250.00	
.72	.00	12.93	3.89	.000	.030	.035	.000	6245.00	1067.83	
.006847	390.	400.	410.	20	11	0	.00	120.08	1183.92	

*SECNO 64.000

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

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
R	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNOH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	IDCNT	COPAR	TOPWID	ENDST

64.00	9.28	6260.28	6260.28	.00	6263.25	2.96	3.46	.12	6268.00
.990.	0.	6989.	1.	0.	506.	1.	607.	157.	6260.00
.73	.00	13.81	1.01	.000	.030	.035	.000	6251.00	1054.06
.007609	480.	480.	480.	20	11	0	.00	93.02	1147.08

#SECNO 65.000

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

65.00	7.48	6265.48	6265.48	.00	6268.08	2.59	2.76	.04	6270.00
.990.	0.	6990.	0.	0.	541.	0.	611.	158.	6266.00
.74	.00	12.92	.00	.000	.030	.000	.000	6258.00	1041.29
.008699	300.	340.	360.	20	11	0	.00	114.12	1155.41

#SECNO 66.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

66.00	5.99	6269.99	6269.99	.00	6272.23	2.24	2.57	.04	6274.00
.990.	0.	6865.	125.	0.	567.	36.	616.	159.	6268.00
.74	.00	12.10	3.49	.000	.030	.035	.000	6264.00	1055.02
.006807	330.	335.	340.	2	15	0	.00	144.87	1199.89

#SECNO 67.000

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

67.00	7.30	6279.30	6279.30	.00	6281.43	2.13	.00	.01	6278.00
.990.	4.	6831.	155.	2.	577.	63.	616.	159.	6276.00
.74	2.28	11.84	2.45	.035	.030	.035	.000	6272.00	1105.41
.005945	0.	0.	0.	20	11	0	.00	203.90	1209.30

#SECNO 68.000

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

68.00	7.66	6287.66	6287.66	.00	6289.63	1.96	2.80	.02	6286.00
.990.	12.	6428.	550.	4.	552.	121.	623.	161.	6286.00
.76	2.81	11.65	4.56	.035	.030	.035	.000	6280.00	1003.01
.006014	500.	468.	460.	20	8	0	.00	181.98	1184.99

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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	XLOH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDBT

*SECNO 69.000

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

69.00	9.14	6297.14	6297.14	.00	6298.72	1.58	2.81	.04	6294.00
6990.	23.	6293.	675.	7.	596.	194.	631.	164.	6294.00
.77	3.28	10.56	3.48	.035	.030	.035	.000	6288.00	1003.45
.005186	540.	508.	450.	20	12	0	.00	289.93	1293.38

*SECNO 70.000

3301 HV CHANGED MORE THAN HVINS

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

70.00	3.27	6303.27	6303.27	.00	6305.65	2.37	3.30	.24	6312.00
6990.	0.	6990.	0.	0.	566.	0.	639.	166.	6312.00
.78	.00	12.36	.00	.000	.030	.000	.000	6298.00	1024.93
.008034	500.	518.	520.	20	11	0	.00	119.48	1144.42

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6301.76 , NOT 6303.27 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFG	RDLEN	BWC	BWP	BAREA	SS	ELCHD	ELCHD
	1.05	1.50	2.50	.00	130.00	6.00	1254.00	1.00	6299.00	6298.00

*SECNO 70.100

3301 HV CHANGED MORE THAN HVINS

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

CLASS B LOW FLOW

7420 BRIDGE W.S.= 6303.06 BRIDGE VELOCITY= 11.91 CALCULATED CHANNEL AREA= 521.

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	GLDB	QCH	QROB	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

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	6306.03	.00	0.	6990.	1254.	1254.	6308.40	6312.20	0.

PALMER PARK BRIDGE

70.10	6.59	6304.59	.00	.00	6306.03	1.44	.38	.00	6312.00
6990.	0.	6990.	0.	0.	727.	0.	640.	166.	6312.00
.78	.00	9.62	.00	.000	.030	.000	.000	6198.00	1021.17
.003739	60.	60.	60.	0	0	0	.00	125.59	1146.77

CEHV= .100 CEHV= .300

#SECNO 71.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

71.00	5.27	6313.27	6313.27	.00	6313.57	2.29	3.29	.26	6314.00
6990.	0.	6990.	0.	0.	575.	0.	648.	168.	6314.00
.80	.00	12.15	.00	.000	.035	.000	.000	6308.00	1139.45
.011136	568.	548.	360.	20	15	0	.00	126.74	1266.19

#SECNO 72.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

72.00	6.50	6322.50	6322.50	.00	6324.17	1.67	7.05	.06	6324.00
6760.	0.	6760.	0.	0.	652.	0.	657.	170.	6324.00
.81	.00	10.37	.00	.000	.035	.000	.000	6316.00	1074.47
.012889	580.	590.	600.	6	11	0	.00	204.03	1278.52

#SECNO 73.000

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	OWSEL	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	ESTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	IDCNT	QORAR	TOPWID	ENDST

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

73.00	6.69	6330.69	6330.69	.00	6333.35	2.67	5.99	.30	6332.00
6760.	0.	6760.	0.	0.	516.	0.	664.	172.	6332.00
.82	.00	13.10	.00	.000	.035	.000	.000	6324.00	1013.25
.010835	488.	508.	520.	2	8	0	.00	98.12	1111.37

DOHV= .300 DERV= .500

*SECNO 74.000

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

74.00	5.21	6334.11	6334.04	.00	6335.56	2.46	3.15	.06	6346.00
6760.	0.	6760.	0.	0.	538.	0.	670.	173.	6344.00
.83	.00	12.57	.00	.000	.020	.000	.000	6328.90	1246.95
.003548	480.	548.	360.	6	15	0	.00	106.49	1353.45

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6332.60 . NOT 6334.11 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWD	BWP	BAREA	SS	ELDHU	ELCHD
	1.25	1.50	2.50	.00	113.00	13.00	1113.00	.00	6331.70	6328.90

*SECNO 74.100

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.66

CLASS B LOW FLOW

3420 BRIDGE W.S.= 6335.52 BRIDGE VELOCITY= 12.96 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLD	ELTRD	WEIRLN
.00	6340.08	.00	0.	6760.	1113.	1000.	6341.70	6347.90	0.

POWERS BOULEVARD

74.10	7.09	6338.79	.00	.00	6340.08	1.29	3.52	.00	6348.80
6760.	0.	6760.	0.	0.	740.	0.	673.	174.	6346.80
.84	.00	9.13	.00	.000	.020	.000	.000	6331.70	1245.85
.001286	200.	200.	200.	0	0	0	.00	108.84	1354.70

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
3	QLOB	QCH	3ROB	ALOB	ACH	AROB	VDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	IDCONT	QDRAR	TOPWID	ENDST

CCHV= .100 CEHV= .300

#SECNO 75.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

75.00	4.45	6345.45	6348.45	.00	6350.17	1.72	1.55	.13	6352.00
6750.	0.	6750.	0.	0.	641.	0.	682.	176.	6352.00
.85	.00	10.54	.00	.000	.035	.000	.000	6344.00	1044.15
.012142	360.	528.	480.	20	14	0	.00	189.20	1233.35

#SECNO 76.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

76.00	5.53	6355.53	6355.53	.00	6357.29	1.76	6.20	.01	6358.00
6760.	0.	6760.	0.	0.	634.	0.	689.	178.	6356.00
.87	.00	10.66	.00	.000	.035	.000	.000	6350.00	1017.41
.012253	500.	508.	530.	3	11	0	.00	184.71	1202.12

#SECNO 77.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

77.00	5.12	6361.12	6361.12	.00	6363.00	1.88	5.37	.03	6362.00
6760.	0.	6760.	0.	0.	615.	0.	695.	180.	6362.00
.88	.00	11.00	.00	.000	.035	.000	.000	6356.00	1017.52
.011944	452.	444.	444.	0	11	0	.00	166.09	1183.61

#SECNO 78.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

78.00	5.24	6375.24	6375.24	.00	6376.54	1.31	5.32	.06	6376.00
6760.	0.	6760.	0.	0.	737.	0.	702.	182.	6376.00
.89	.00	9.18	.00	.000	.035	.000	.000	6370.00	1175.65
.012962	348.	428.	448.	20	5	0	.00	281.40	1457.06

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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	IDCNT	CDRAR	TDFWID	ENDST

#SECNO 79.000

79.00	5.88	6379.68	.00	.00	6381.13	1.44	4.54	.04	6382.00
6760.	0.	6739.	21.	0.	699.	8.	709.	184.	6378.00
.90	.00	9.65	3.68	.000	.035	.035	.000	6374.00	1012.94
.009849	460.	404.	376.	3	0	0	.00	207.80	1220.74

#SECNO 80.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

CHICAGO, ROCK ISLAND & PACIFIC RR

80.00	2.91	6390.91	6390.91	.00	6392.33	1.41	4.89	.00	6400.00
6760.	0.	6760.	0.	0.	708.	0.	718.	186.	6404.00
.92	.00	9.54	.00	.000	.035	.000	.000	6388.00	1070.00
.012862	448.	436.	468.	20	8	0	.00	250.00	1320.00

#SECNO 81.000

3265 DIVIDED FLOW

81.00	3.39	6393.39	.00	.00	6394.49	1.10	2.13	.03	6394.00
6330.	0.	6109.	221.	0.	717.	45.	719.	187.	6392.00
.92	.00	8.52	4.91	.000	.035	.035	.000	6390.00	1226.53
.011158	200.	178.	164.	2	0	0	.00	316.33	1603.13

CDHV= .300 CEHV= .500

#SECNO 82.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.72

82.00	5.74	6395.24	6395.17	.00	6398.04	2.80	2.70	.85	6402.50
6330.	0.	6330.	0.	0.	471.	0.	725.	189.	6402.50
.93	.00	13.43	.00	.000	.020	.000	.000	6389.50	1165.00
.003779	400.	448.	420.	7	14	0	.00	82.00	1247.00

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	CLOSS	BANK ELEV
G	QLOB	GCH	GROB	ALGB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	ESTA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6394.20 , NOT 6395.24 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFG	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	2.60	.00	82.00	5.00	912.00	.00	6389.70	6389.50

*SECNO 82.100

3301 HV CHANGED MORE THAN HVINS

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

CLASS B LOW FLOW

3420 BRIDGE W.S.= 6395.54 BRIDGE VELOCITY= 13.83 CALCULATED CHANNEL AREA= 450.

EGPRS	EGLWC	H3	QWEIR	QLCW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	6398.87	.00	0.	6330.	912.	909.	6401.50	6402.70	0.

CONSTITUTION AVE

82.10	7.55	6397.25	.00	.00	6398.87	1.63	.83	.00	6402.70
6330.	0.	6330.	0.	0.	619.	0.	727.	190.	6402.70
.83	.00	10.23	.00	.000	.020	.000	.000	6389.70	1165.00
.001605	120.	120.	120.	0	0	0	.00	82.00	1247.00

CDHV= .100 CEHV= .300

*SECNO 83.000

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

83.00	5.62	6405.62	6405.62	.00	6407.17	1.55	1.14	.01	6406.00
6330.	0.	6330.	0.	0.	635.	0.	731.	191.	6406.00
.94	.00	9.98	.00	.000	.035	.000	.000	6400.00	1147.48
.012603	480.	328.	400.	20	19	0	.00	207.77	1355.23

*SECNO 84.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
3	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNOH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDET

84.00	5.27	6415.27	6415.27	.00	6416.86	1.37	8.60	.02	6416.00
4680.	0.	4680.	0.	0.	495.	0.	740.	194.	6416.00
.96	.00	9.46	.00	.000	.035	.000	.000	6410.00	1058.07
.013072	540.	672.	720.	3	11	0	.00	181.15	1239.22

*SECNO 85.000

85.00	4.93	6420.93	.00	.00	6422.29	1.35	5.63	.00	6424.00
4680.	0.	4680.	0.	0.	501.	0.	746.	196.	6422.00
.98	.00	9.33	.00	.000	.035	.000	.000	6416.00	1172.24
.009297	380.	514.	380.	2	0	0	.00	144.57	1336.81

*SECNO 86.000

3301 HV CHANGED MORE THAN HVINS

86.00	4.25	6426.25	.00	.00	6426.71	.46	4.33	.09	6428.00
4680.	0.	4680.	0.	0.	857.	0.	752.	200.	6428.00
1.00	.00	5.46	.00	.000	.035	.000	.000	6422.00	1058.11
.012246	640.	408.	270.	6	0	0	.00	682.39	1740.49

*SECNO 87.000

87.00	2.12	6432.12	.00	.00	6432.60	.48	5.87	.01	6436.00
4680.	0.	4680.	0.	0.	841.	0.	764.	208.	6436.00
1.03	.00	5.57	.00	.000	.035	.000	.000	6430.00	1241.67
.007849	560.	608.	540.	4	0	0	.00	466.92	1708.61

*SECNO 88.000

3301 HV CHANGED MORE THAN HVINS

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

88.00	6.07	6442.07	6442.07	.00	6443.08	1.01	3.63	.16	6440.00
4680.	1356.	3282.	42.	332.	355.	13.	774.	217.	6440.00
1.05	4.08	9.24	3.17	.035	.035	.035	.000	6436.00	1065.33
.005536	420.	576.	768.	20	20	0	.00	343.79	1412.11

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SECNO	DEPTH	CWSEL	CRWS	WGELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	GRGB	ALOB	ACH	AROB	VDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSA
SLOPE	XLOBL	XLCH	XLGBR	ITRIAL	IDC	ICBNT	EDRAR	TOPWID	ENDST

*SECNO 89.000

3301 HV CHANGED MORE THAN HVINS

3695 20 TRIALS ATTEMPTED WGEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

89.00	6.62	6448.62	6448.62	.00	6451.10	2.48	4.13	.44	6448.00
4680.	1.	4677.	3.	0.	370.	1.	781.	215.	6448.00
1.06	1.88	12.64	2.02	.035	.035	.035	.000	6442.00	1012.75
.010812	600.	540.	700.	20	8	0	.00	79.61	1092.36

*SECNO 90.000

90.00	5.97	6453.97	6453.84	.00	6456.33	2.36	5.22	.01	6456.00
4680.	0.	4680.	0.	0.	380.	0.	785.	216.	6454.00
1.07	.00	12.33	.00	.000	.035	.000	.000	6448.00	1010.66
.010313	492.	494.	488.	4	11	0	.00	75.88	1085.94

*SECNO 91.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

91.00	7.03	6461.03	6461.03	.00	6463.71	2.68	5.02	.10	6462.00
4680.	0.	4680.	0.	0.	350.	0.	789.	217.	6462.00
1.08	.00	13.14	.00	.000	.035	.000	.000	6454.00	1005.94
.011061	468.	470.	472.	4	11	0	.00	66.12	1072.06

*SECNO 92.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIC = 1.55

92.00	6.39	6466.39	.00	.00	6467.54	1.16	3.68	.15	6468.00
4680.	0.	4680.	0.	0.	533.	0.	794.	218.	6468.00
1.10	.00	8.63	.00	.000	.035	.000	.000	6460.00	1006.43
.004616	536.	540.	540.	2	0	0	.00	100.34	1106.77

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SECD	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	XLQBL	XLCH	XLQBR	ITRIAL	IDC	IDCNT	CDRAR	TOPWID	ENDST

*SECNO 93.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

93.00	5.15	6473.15	6473.15	.00	6475.09	1.94	3.18	.24	6474.00
4600.	0.	4600.	0.	0.	412.	0.	799.	219.	6474.00
1.11	.00	11.18	.00	.000	.035	.000	.000	6468.00	1013.94
.011716	456.	456.	464.	20	15	0	.00	107.27	1121.21

CDHV= .300 CEHV= .500

*SECNO 94.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

94.00	4.93	6480.03	6480.03	.00	6482.50	2.47	3.98	.26	6490.60
4600.	0.	4600.	0.	0.	365.	0.	805.	220.	6490.00
1.12	.00	12.60	.00	.000	.020	.000	.000	6475.10	1230.00
.004045	560.	620.	564.	3	8	0	.00	74.00	1304.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6479.12 . NOT 6480.03 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWD	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.60	.00	74.00	5.00	860.00	.00	6475.60	6475.10

*SECNO 94.100

3301 HV CHANGED MORE THAN HVINS

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

CLASS B LOW FLOW

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	GRQB	ALOB	ACH	AROB	VDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SETA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3420 BRIDGE W.S.= 6481.02 BRIDGE VELOCITY= 12.90 CALCULATED CHANNEL AREA= 305.

EGPRS	EBLWD	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	6484.59	.00	0.	4600.	860.	823.	6498.60	6491.40	0.

NORTH CAREFREE AVE.

74.10	6.63	6483.23	.00	.00	6484.59	1.37	2.09	.00	6492.10
4600.	0.	4600.	0.	0.	490.	0.	806.	221.	6491.50
1.13	.00	7.38	.00	.000	.020	.000	.000	6476.60	1230.00
.001596	100.	100.	100.	0	0	0	.00	74.00	1304.00

OCHV= .100 CEHV= .300

*SECNO 95.000

3685 20 TRIALS ATTEMPTED WSEL.CWSEL

3697 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

95.00	3.41	6495.41	6495.41	.00	6496.49	1.09	2.03	.03	6498.00
4600.	0.	4600.	0.	0.	550.	0.	812.	223.	6496.00
1.15	.00	8.37	.00	.000	.035	.000	.000	6492.00	1273.35
.014149	960.	568.	520.	20	11	0	.00	257.40	1530.75

*SECNO 96.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

96.00	3.39	6503.39	6503.39	.00	6504.31	.92	6.21	.02	6506.00
4600.	299.	4301.	0.	83.	543.	0.	819.	226.	6506.00
1.16	3.61	7.92	.00	.035	.035	.000	.000	6500.00	1185.99
.011777	540.	480.	560.	4	5	0	.00	360.14	1609.51

*SECNO 97.000

97.00	3.85	6513.85	.00	.00	6514.60	.75	10.28	.02	6514.00
4170.	0.	4170.	0.	0.	598.	0.	832.	233.	6514.00
1.20	.00	6.97	.00	.000	.035	.000	.000	6510.00	1475.15
.011409	1060.	880.	800.	4	0	0	.00	313.56	1788.71

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

#SECNO 98.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

98.00	5.13	6519.13	6519.13	.00	6519.94	.81	3.75	.02	6520.00
4170.	747.	3423.	0.	195.	442.	0.	837.	236.	6520.00
1.22	3.83	7.75	.00	.035	.035	.000	.000	6514.00	1098.73
.007817	160.	424.	800.	3	13	0	.00	349.31	1611.92

#SECNO 99.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

99.00	6.89	6524.89	6524.89	.00	6526.96	2.07	5.02	.35	6524.00
4170.	15.	4154.	1.	6.	359.	0.	844.	239.	6524.00
1.23	2.55	11.57	2.03	.035	.035	.035	.000	6518.00	1068.66
.010658	760.	532.	520.	2	11	0	.00	96.23	1164.89

#SECNO 100.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

100.00	9.00	6533.00	6533.00	.00	6534.63	1.63	3.73	.04	6530.00
4170.	795.	3332.	42.	161.	299.	11.	845.	241.	6530.00
1.24	4.95	11.18	4.03	.035	.035	.035	.000	6524.00	1008.97
.005585	500.	496.	490.	2	8	0	.00	135.01	1147.00

#SECNO 101.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

101.00	7.09	6545.09	6545.09	.00	6546.61	1.52	5.81	.01	6544.00
4170.	262.	3902.	6.	72.	384.	2.	858.	244.	6544.00
1.27	3.63	10.17	2.40	.035	.035	.035	.000	6538.00	1033.94
.007458	800.	920.	860.	20	16	0	.00	164.44	1198.38

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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	BSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CGRAR	TOPWID	ENDST

CCHV= .300 CEHV= .500

*SECNO 102.000

3301 HV CHANGED MORE THAN HVINS

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

102.00	4.64	6549.14	.00	.00	6550.04	.90	3.24	.19	6562.00
4020.	0.	4020.	0.	0.	529.	0.	865.	246.	6562.00
1.29	.00	7.60	.00	.000	.030	.000	.000	6544.50	1043.27
.003466	570.	660.	550.	2	0	0	.00	121.97	1165.24

SPECIAL BRIDGE

SB	XK	XKOR	CDFB	ADLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.50	2.50	.00	105.00	.00	1364.00	1.00	6545.50	6544.50

*SECNO 102.100

6070.LOW FLOW BY NORMAL BRIDGE

EGFRS= .000 EGLWC= 6551.039 ELLC= 6556.500 PCWSE= 6549.143 ELTRD= 6563.100

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 6563.10 MAX ELLD= 6556.50

BARNES ROAD

102.10	3.84	6549.34	.00	.00	6550.68	1.34	.42	.22	6563.00
4020.	0.	4020.	0.	0.	432.	0.	866.	246.	6563.00
1.29	.00	9.30	.00	.000	.030	.000	.000	6545.50	1044.10
.006646	90.	90.	90.	3	0	0	.00	120.41	1164.51

CCHV= .100 CEHV= .300

*SECNO 103.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

103.00	9.03	6565.03	6565.03	.00	6566.46	1.42	2.34	.02	6562.00
4020.	421.	3447.	153.	113.	338.	29.	870.	247.	6562.00
1.31	3.71	10.19	5.26	.035	.035	.035	.000	6556.00	1029.96
.006200	328.	368.	300.	20	20	0	.00	189.08	1219.03

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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	XLDBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 104.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

104.00	2.98	6572.88	6572.88	.00	6573.69	.81	4.68	.06	6576.00
4020.	0.	4020.	0.	0.	556.	0.	876.	250.	6578.00
1.32	.00	7.23	.00	.000	.035	.000	.000	6570.00	1047.17
.015752	480.	500.	560.	12	17	0	.00	351.52	1422.13

*SECNO 105.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

105.00	4.51	6582.51	6582.51	.00	6583.76	1.26	7.42	.13	6584.00
3260.	0.	3260.	0.	0.	362.	0.	881.	253.	6586.00
1.34	.00	8.99	.00	.000	.035	.000	.000	6578.00	1075.91
.013580	580.	504.	390.	3	14	0	.00	146.67	1256.51

*SECNO 106.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

106.00	8.58	6588.58	6588.58	.00	6590.48	1.90	6.01	.19	6586.00
3260.	177.	2954.	129.	35.	257.	26.	886.	255.	6586.00
1.36	5.03	11.51	4.98	.035	.035	.035	.000	6580.00	1004.26
.007804	640.	594.	600.	3	17	0	.00	87.77	1092.03

*SECNO 107.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

SECNO	DEPTH	CWSEL	CRWS	WSELK	EB	HV	HL	QLOSS	BANK ELEV
@	GLOB	BCH	OROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	IDONT	CORAR	TOPWID	ENDBT

107.00	8.30	6598.30	6598.30	.00	6600.59	2.29	5.21	.12	6596.00
3260.	65.	3195.	0.	13.	261.	0.	890.	256.	6598.00
1.37	4.93	12.24	.04	.035	.035	.035	.000	6590.00	1006.79
.009929	640.	592.	620.	20	8	0	.00	61.51	1068.30

*SECNO 108.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

108.00	7.55	6607.55	6607.55	.00	6609.68	2.13	5.51	.02	6606.00
3260.	22.	3238.	0.	6.	275.	0.	893.	257.	6608.00
1.38	3.74	11.76	.00	.035	.035	.000	.000	6600.00	1010.26
.011176	460.	524.	480.	13	11	0	.00	70.84	1081.10

*SECNO 109.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

109.00	6.88	6616.88	6616.88	.00	6618.58	1.70	7.09	.04	6616.00
3180.	10.	3168.	2.	4.	302.	1.	898.	258.	6616.00
1.40	2.61	10.49	2.44	.035	.035	.035	.000	6610.00	1017.20
.011413	580.	628.	540.	7	12	0	.00	94.56	1111.76

*SECNO 110.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

110.00	5.73	6625.73	6625.73	.00	6627.17	1.45	5.74	.03	6628.00
3180.	0.	3180.	0.	0.	330.	0.	901.	259.	6626.00
1.41	.00	9.65	.00	.000	.035	.000	.000	6620.00	1015.09
.013203	560.	468.	360.	13	15	0	.00	117.38	1132.47

*SECNO 111.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

111.00	4.95	6630.95	.00	.00	6631.93	.88	4.71	.05	6632.00
3180.	0.	3180.	0.	0.	400.	0.	905.	260.	6634.00
1.43	.00	7.95	.00	.000	.035	.000	.000	6626.00	1106.25
.008557	400.	448.	440.	2	0	0	.00	137.65	1243.91

*SECNO 112.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

112.00	5.95	6635.95	.00	.00	6636.54	.59	4.58	.04	6636.00
3180.	0.	3180.	0.	0.	516.	0.	911.	263.	6636.00
1.45	.00	6.17	.00	.000	.035	.000	.000	6630.00	1026.37
.007018	480.	592.	680.	4	0	0	.00	224.94	1251.31

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	CLOSE	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

*SECNO 113.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

113.00	3.34	6643.34	6643.34	.00	6644.22	.66	3.95	.99	6646.00
3180.	0.	3180.	0.	0.	425.	0.	915.	265.	6646.00
1.47	.00	7.52	.00	.000	.035	.000	.000	6640.00	1028.64
.014929	540.	400.	240.	20	11	0	.00	241.81	1270.45

*SECNO 114.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

114.00	2.60	6662.60	6662.60	.00	6663.46	.65	8.04	.00	6666.00
3180.	0.	3180.	0.	0.	425.	0.	920.	268.	6668.00
1.49	.00	7.41	.00	.000	.035	.000	.000	6660.00	1049.81
.015552	400.	528.	500.	20	15	0	.00	259.24	1309.05

*SECNO 115.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. K RATIO = 4.01

115.00	5.00	6665.00	.00	.00	6665.14	.14	1.61	.07	6668.00
3180.	0.	3163.	17.	0.	1042.	20.	932.	272.	6664.00
1.55	.00	3.04	.83	.000	.035	.035	.000	6660.00	1040.00
.000966	600.	652.	660.	6	0	0	.00	337.98	1377.98

*SECNO 116.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

116.00	1.13	6669.13	6669.13	.00	6669.69	.56	.91	.13	6674.00
1700.	0.	1700.	0.	0.	282.	0.	939.	276.	6674.00
1.57	.00	6.03	.00	.000	.035	.000	.000	6668.00	1136.36
.017577	520.	506.	580.	20	17	0	.00	253.90	1390.26

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VDL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	ESTA
SLOPE	XLOBL	XLCH	XLDBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDET

*SECNO 117.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

117.00	1.68	6677.68	6677.68	.00	6678.37	.69	7.42	.04	6682.00
1700.	0.	1700.	0.	0.	255.	0.	942.	278.	6684.00
1.59	.00	6.67	.00	.000	.035	.000	.000	6676.00	1148.44
.016205	375.	440.	540.	3	11	0	.00	185.25	1331.68

*SECNO 118.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

118.00	3.67	6687.67	6687.67	.00	6688.90	1.22	8.86	.16	6690.00
1700.	0.	1700.	0.	0.	192.	0.	945.	280.	6690.00
1.61	.00	8.87	.00	.000	.035	.000	.000	6684.00	1112.65
.013700	536.	596.	616.	4	20	0	.00	79.72	1192.37

*SECNO 119.000

3301 HV CHANGED MORE THAN HVINS

119.00	1.02	6695.02	.00	.00	6695.32	.29	6.33	.09	6702.00
1700.	0.	1700.	0.	0.	391.	0.	949.	283.	6702.00
1.64	.00	4.35	.00	.000	.035	.000	.000	6694.00	1029.90
.010282	624.	536.	495.	5	0	0	.00	385.17	1415.07

*SECNO 120.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

120.00	3.67	6703.67	6703.67	.00	6704.88	1.21	5.60	.28	6708.00
1700.	0.	1700.	0.	0.	193.	0.	952.	285.	6706.00
1.66	.00	8.83	.00	.000	.035	.000	.000	6700.00	1018.67
.013863	480.	472.	410.	18	26	0	.00	81.34	1100.00

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

*SECNO 121.000

3301 HV CHANGED MORE THAN HVINS

121.00	1.46	6711.46	.00	.00	6711.85	.38	6.88	.08	6716.00
1670.	0.	1670.	0.	0.	337.	0.	956.	287.	6716.00
1.69	.00	4.96	.00	.000	.035	.000	.000	6710.00	1232.58
.009281	440.	612.	510.	4	0	0	.00	251.92	1484.49

*SECNO 122.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

122.00	1.47	6717.47	6717.47	.00	6718.08	.62	5.98	.07	6722.00
1670.	0.	1670.	0.	0.	265.	0.	959.	290.	6722.00
1.71	.00	6.30	.00	.000	.035	.000	.000	6716.00	1085.06
.016918	405.	488.	440.	4	5	0	.00	217.34	1302.40

*SECNO 123.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 1.91

123.00	3.26	6721.26	.00	.00	6721.48	.22	3.35	.04	6726.00
1670.	0.	1670.	0.	0.	443.	0.	962.	293.	6724.00
1.74	.00	3.77	.00	.000	.035	.000	.000	6718.00	1091.52
.004631	232.	420.	560.	3	0	0	.00	296.55	1388.16

*SECNO 124.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

124.00	3.01	6729.01	6729.01	.00	6729.73	.72	3.66	.15	6734.00
1570.	0.	1570.	0.	0.	231.	0.	966.	295.	6734.00
1.76	.00	6.79	.00	.000	.035	.000	.000	6726.00	1270.99
.015834	520.	478.	512.	20	12	0	.00	160.24	1431.22

*SECNO 125.000

125.00	4.26	6736.26	6736.25	.00	6737.38	1.11	7.53	.12	6736.00
1570.	1.	1569.	0.	1.	185.	0.	969.	297.	6738.00
1.78	1.27	8.47	.00	.035	.035	.000	.000	6732.00	1075.24
.013289	460.	520.	360.	6	11	0	.00	85.29	1160.53

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SECD	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	DLOSS	BANK ELEV
8	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRGB	XNL	XNCH	YNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST

*SECD 126.000

126.00	5.29	6745.29	.00	.00	6746.23	.93	8.63	.02	6746.00
1570.	0.	1570.	0.	0.	203.	0.	972.	298.	6746.00
1.81	.00	7.75	.00	.000	.035	.000	.000	6740.00	1117.54
.011117	580.	728.	720.	4	0	0	.00	88.20	1205.74

*SECD 127.000

3301 HV CHANGED MORE THAN HVINS

7155 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

127.00	6.69	6752.69	6752.69	.00	6754.48	1.79	5.85	.26	6754.00
1570.	0.	1561.	9.	0.	145.	4.	974.	299.	6752.00
1.82	.00	10.76	2.21	.000	.035	.035	.000	6746.00	1005.31
.011223	560.	524.	520.	2	11	0	.00	49.09	1054.40

*SECD 128.000

128.00	5.97	6759.97	.00	.00	6761.53	1.56	7.03	.02	6760.00
1570.	0.	1570.	0.	0.	156.	0.	976.	299.	6760.00
1.84	.00	10.04	.00	.000	.035	.000	.000	6754.00	1006.07
.011619	472.	616.	580.	3	0	0	.00	45.75	1051.82

*SECD 129.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

129.00	5.82	6767.82	6767.82	.00	6768.88	1.06	6.68	.05	6770.00
1570.	0.	1570.	0.	0.	190.	0.	978.	300.	6770.00
1.86	.00	8.28	.00	.000	.035	.000	.000	6762.00	1010.72
.012260	568.	560.	440.	5	6	0	.00	78.92	1089.64

*SECD 130.000

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	ES	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	BETA
SLOPE	XLOBL	XLOH	XLOBR	ITRIAL	IDC	IDCNT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE. KRATIO = 2.31

130.00	5.56	6771.56	.00	.00	6771.86	.30	2.70	.08	6772.00
1570.	0.	1570.	0.	0.	358.	0.	982.	302.	6772.00
1.70	.00	4.38	.00	.000	.035	.000	.000	6766.00	1069.08
.002294	688.	648.	632.	5	0	0	.00	112.31	1181.39

*SECNO 131.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

131.00	2.06	6788.06	6788.06	.00	6788.88	.82	2.45	.16	6790.00
1570.	0.	1570.	0.	0.	216.	0.	986.	303.	6792.00
1.92	.00	7.28	.00	.000	.035	.000	.000	6786.00	1201.71
.015427	480.	512.	500.	20	18	0	.00	132.94	1334.64

*SECNO 132.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

132.00	2.69	6796.69	6796.69	.00	6797.48	.79	3.35	.00	6800.00
1580.	0.	1580.	0.	0.	222.	0.	986.	305.	6798.00
1.94	.00	7.13	.00	.000	.035	.000	.000	6794.00	1167.63
.015736	456.	536.	568.	5	11	0	.00	142.52	1310.15

*SECNO 133.000

133.00	3.35	6803.35	.00	.00	6803.95	.60	6.45	.02	6804.00
1580.	0.	1580.	0.	0.	253.	0.	991.	307.	6806.00
1.96	.00	6.23	.00	.000	.035	.000	.000	6800.00	1114.55
.010940	584.	496.	416.	4	0	0	.00	152.10	1266.75

*SECNO 134.000

134.00	2.95	6808.95	.00	.00	6809.60	.65	5.63	.01	6812.00
1580.	0.	1580.	0.	0.	245.	0.	994.	308.	6810.00
1.98	.00	6.45	.00	.000	.035	.000	.000	6806.00	1016.10
.009526	256.	552.	580.	4	0	0	.00	125.64	1141.74

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	GLDB	GCH	GRGB	ALDB	ACH	ARGB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLDBL	XLCH	XLGBR	ITRIAL	IDC	IDCNT	CORAR	TOPWID	ENDET

#SECNO 135.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

135.00	2.73	6816.73	6816.73	.00	6817.52	.79	5.89	.04	6820.00
1580.	0.	1580.	0.	0.	221.	0.	997.	310.	6820.00
2.00	.00	7.14	.00	.000	.035	.000	.000	6814.00	1033.22
.015805	480.	488.	460.	10	11	0	.00	142.97	1196.19

#SECNO 136.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

136.00	2.00	6826.00	6826.00	.00	6826.57	.68	6.46	.01	6832.00
1580.	0.	1580.	0.	0.	239.	0.	1000.	312.	6832.00
2.03	.00	6.60	.00	.000	.035	.000	.000	6824.00	1172.19
.016767	540.	520.	488.	4	19	0	.00	181.79	1353.98

#SECNO 137.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

137.00	4.45	6832.45	6832.45	.00	6833.36	.91	5.85	.07	6836.00
1580.	0.	1580.	0.	0.	206.	0.	1002.	313.	6836.00
2.04	.00	7.66	.00	.000	.035	.000	.000	6828.00	1066.84
.015751	460.	360.	352.	3	20	0	.00	119.34	1186.16

#SECNO 138.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

138.00	1.07	6841.07	6841.07	.00	6841.57	.49	7.36	.04	6846.00
770.	0.	770.	0.	0.	137.	0.	1003.	314.	6846.00
2.06	.00	5.63	.00	.000	.035	.000	.000	6840.00	1175.63
.017962	488.	448.	400.	2	14	0	.00	138.55	1315.18

#SECNO 139.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

139.00	1.98	6851.98	6851.98	.00	6852.51	.53	10.93	.01	6854.00
770.	0.	770.	0.	0.	132.	0.	1005.	316.	6856.00
2.09	.00	5.83	.00	.000	.035	.000	.000	6850.00	1426.73
.017305	600.	620.	630.	8	17	0	.00	123.65	1549.88