

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	XLQBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 64.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

64.00	9.12	6260.12	6260.12	.00	6263.07	2.95	3.48	.11	6268.00
6780.	0.	6780.	0.	0.	492.	0.	774.	176.	6260.00
.69	.00	13.78	.57	.000	.030	.035	.000	6251.00	1054.57
.007800	480.	480.	480.	20	11	0	.00	88.42	1142.99

*SECNO 65.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

65.00	7.42	6265.42	6265.42	.00	6267.93	2.51	2.77	.04	6270.00
6780.	0.	6780.	0.	0.	533.	0.	778.	177.	6266.00
.69	.00	12.71	.00	.000	.030	.000	.000	6258.00	1041.46
.008532	300.	340.	360.	20	11	0	.00	113.62	1155.08

*SECNO 66.000

35 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

66.00	5.84	6269.84	6269.84	.00	6272.09	2.25	2.60	.03	6274.00
6780.	0.	6677.	103.	0.	551.	30.	783.	178.	6268.00
.70	.00	12.13	3.38	.000	.030	.035	.000	6264.00	1055.40
.007082	330.	335.	340.	2	15	0	.00	141.71	1197.11

*SECNO 67.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

67.00	7.18	6279.18	6279.18	.00	6281.30	2.12	.00	.01	6278.00
6780.	3.	6657.	120.	1.	564.	52.	783.	178.	6278.00
.70	2.16	11.80	2.32	.035	.030	.035	.000	6272.00	1005.65
.006080	0.	0.	0.	20	11	0	.00	194.50	1200.15

*SECNO 68.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

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	YNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	YLOBL	YLCH	YLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

68.00	7.57	6287.57	6287.57	.00	6289.51	1.94	2.84	.02	6286.00
6780.	10.	6267.	502.	4.	543.	114.	789.	180.	6286.00
.71	2.72	11.55	4.41	.035	.030	.035	.000	6280.00	1003.28
.006046	500.	468.	460.	20	8	0	.00	181.45	1184.72

*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	9.25	6297.25	6297.25	.00	6298.63	1.37	2.59	.06	6294.00
6780.	24.	6033.	723.	8.	609.	213.	798.	183.	6294.00
.73	3.10	9.90	3.40	.035	.030	.035	.000	6288.00	1003.00
.004434	540.	508.	450.	20	13	0	.00	291.51	1294.51

*SECNO 70.000

1 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

70.00	5.17	6303.17	6303.17	.00	6305.50	2.34	3.04	.29	6312.00
6780.	0.	6780.	0.	0.	553.	0.	806.	185.	6312.00
.74	.00	12.27	.00	.000	.030	.000	.000	6298.00	1025.24
.008114	500.	518.	520.	20	11	0	.00	118.98	1144.22

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6301.69 , NOT 6303.17 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

SECND	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	CCORAR	TOPWID	ENDST

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

CLASS B LOW FLOW

3420 BRIDGE W.S.= 6302.97 BRIDGE VELOCITY= 11.80 CALCULATED CHANNEL AREA= 509.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	6305.88	.00	0.	6780.	1254.	1254.	6308.40	6312.20	0.

PALMER PARK BRIDGE

70.10	6.48	6304.48	.00	.00	6305.88	1.40	.38	.00	6312.00
6780.	0.	6780.	0.	0.	713.	0.	807.	185.	6312.00
.74	.00	9.51	.00	.000	.030	.000	.000	6298.00	1021.49
.003729	60.	60.	60.	0	0	0	.00	125.08	1146.57

DCHV= .100 CEHV= .300

SECND 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	5.17	6313.17	6313.17	.00	6315.43	2.26	3.28	.26	6314.00
6780.	0.	6780.	0.	0.	562.	0.	815.	187.	6314.00
.76	.00	12.05	.00	.000	.035	.000	.000	6308.00	1139.66
.011176	568.	548.	360.	20	15	0	.00	125.72	1265.38

*SECND 72.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

72.00	6.19	6322.19	6322.19	.00	6323.64	1.46	6.99	.08	6324.00
5690.	0.	5690.	0.	0.	587.	0.	823.	189.	6324.00
.77	.00	9.69	.00	.000	.035	.000	.000	6316.00	1075.44
.012715	580.	590.	600.	9	8	0	.00	201.48	1276.93

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	LOSS	BANK ELEV
0	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	IDCNT	CORAR	TOPWID	ENDST

*SECNO 73.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

73.00	6.06	6330.06	6330.06	.00	6332.48	2.43	6.01	.29	6332.00
5690.	0.	5690.	0.	0.	455.	0.	829.	191.	6332.00
.78	.00	12.50	.00	.000	.035	.000	.000	6324.00	1015.78
.011039	488.	508.	520.	2	8	0	.00	94.34	1110.11

CDHV= .300 CEHV= .500

*SECNO 74.000

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

74.00	4.67	6333.57	6333.49	.00	6335.75	2.17	3.19	.08	6346.00
5690.	0.	5690.	0.	0.	481.	0.	835.	192.	6344.00
.80	.00	11.83	.00	.000	.020	.000	.000	6328.90	1247.27
.003587	480.	548.	360.	6	15	0	.00	105.83	1353.10

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6332.20 , NOT 6333.57 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	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 = 1.64

CLASS B LOW FLOW

3420 BRIDGE W.S.= 6334.95 BRIDGE VELOCITY= 12.24 CALCULATED CHANNEL AREA= 325.

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

EGPRS	EGLWC	H3	QWEIR	GLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	6339.19	.00	0.	5690.	1113.	1000.	6341.70	6347.90	0.

POWERS BOULEVARD

74.10	6.32	6338.02	.00	.00	6339.19	1.16	3.44	.00	6348.80
5690.	0.	5690.	0.	0.	657.	0.	837.	193.	6346.80
.80	.00	8.66	.00	.000	.020	.000	.000	6331.70	1246.30
.001328	200.	200.	200.	0	0	0	.00	107.88	1354.19

CCHV= .100 CEHV= .300

*SECNO 75.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

75.00	4.04	6348.04	6348.04	.00	6349.61	1.57	1.60	.12	6352.00
5690.	0.	5690.	0.	0.	565.	0.	845.	194.	6352.00
.82	.00	10.06	.00	.000	.035	.000	.000	6344.00	1049.47
.012490	360.	528.	480.	20	14	0	.00	182.66	1232.12

*SECNO 76.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

76.00	5.14	6355.14	6355.14	.00	6356.73	1.58	6.38	.00	6358.00
5690.	0.	5690.	0.	0.	563.	0.	851.	197.	6356.00
.83	.00	10.10	.00	.000	.035	.000	.000	6350.00	1018.57
.012628	500.	508.	530.	4	11	0	.00	182.00	1200.57

*SECNO 77.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

77.00	4.69	6360.69	6360.69	.00	6362.39	1.70	5.54	.04	6362.00
5690.	0.	5690.	0.	0.	543.	0.	857.	198.	6362.00
.84	.00	10.47	.00	.000	.035	.000	.000	6356.00	1019.25
.012346	452.	444.	444.	2	11	0	.00	162.19	1181.44

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

*SECNO 78.000

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

78.00	4.86	6374.86	6374.86	.00	6376.11	1.25	5.56	.05	6378.00
5690.	0.	5690.	0.	0.	635.	0.	863.	200.	6376.00
.86	.00	8.97	.00	.000	.035	.000	.000	6370.00	1184.59
.013665	348.	428.	448.	20	8	0	.00	261.19	1445.78

*SECNO 79.000

79.00	5.39	6379.39	.00	.00	6380.60	1.21	4.49	.00	6382.00
5690.	0.	5678.	12.	0.	642.	4.	869.	203.	6378.00
.87	.00	8.85	3.15	.000	.035	.035	.000	6374.00	1013.80
.009229	460.	404.	376.	3	0	0	.00	205.81	1219.61

*SECNO 80.000

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

CHICAGO, ROCK ISLAND & PACIFIC RR

80.00	2.60	6390.60	6390.60	.00	6391.87	1.26	4.80	.01	6400.00
5690.	0.	5690.	0.	0.	631.	0.	875.	205.	6404.00
.88	.00	7.02	.00	.000	.035	.000	.000	6388.00	1070.00
.013349	448.	436.	468.	20	11	0	.00	250.00	1320.00

*SECNO 81.000

3265 DIVIDED FLOW

81.00	3.10	6393.10	.00	.00	6393.98	.88	2.08	.04	6394.00
4990.	0.	4853.	137.	0.	639.	33.	878.	206.	6392.00
.89	.00	7.60	4.09	.000	.035	.035	.000	6390.00	1230.56
.010142	200.	178.	164.	2	0	0	.00	307.99	1600.82

CEHV= .300 CEHV= .500

*SECNO 82.000

3301 HV CHANGED MORE THAN HVINS

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	XLN	XLNCH	XLNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CCORAR	TOPWID	ENDST

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

82.00	5.29	6394.79	.00	.00	6396.85	2.05	2.28	.59	6402.50
4990.	0.	4990.	0.	0.	434.	0.	884.	208.	6402.50
.90	.00	11.49	.00	.000	.020	.000	.000	6389.50	1165.00
.003048	400.	448.	420.	4	0	0	.00	82.00	1247.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6393.51 , NOT 6394.79 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	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

ASS B LOW FLOW

3420 BRIDGE W.S.= 6394.67 BRIDGE VELOCITY= 12.78 CALCULATED CHANNEL AREA= 383.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	6397.53	.00	0.	4990.	912.	909.	6401.50	6402.70	0.

CONSTITUTION AVE

82.10	6.44	6396.14	.00	.00	6397.53	1.39	.68	.00	6402.70
4990.	0.	4990.	0.	0.	528.	0.	885.	208.	6402.70
.90	.00	9.45	.00	.000	.020	.000	.000	6389.70	1165.00
.001640	120.	120.	120.	0	0	0	.00	82.00	1247.00

CCHV= .100 CEHV= .300

*SECNO 83.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

83.00	5.02	6405.02	6405.02	.00	6406.47	1.44	1.17	.02	6406.00
4990.	0.	4990.	0.	0.	518.	0.	889.	209.	6406.00
.91	.00	9.64	.00	.000	.035	.000	.000	6400.00	1172.08
.012948	480.	328.	400.	20	15	0	.00	181.97	1354.04

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

*SECNO 84.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

84.00	5.15	6415.15	6415.15	.00	6416.53	1.38	8.74	.01	6416.00
4460.	0.	4460.	0.	0.	474.	0.	896.	212.	6416.00
.93	.00	9.42	.00	.000	.035	.000	.000	6410.00	1062.04
.013078	540.	672.	720.	2	8	0	.00	174.42	1236.46

*SECNO 85.000

85.00	4.82	6420.82	.00	.00	6422.13	1.32	5.60	.01	6424.00
4460.	0.	4460.	0.	0.	484.	0.	902.	214.	6422.00
.95	.00	9.21	.00	.000	.035	.000	.000	6416.00	1192.71
.009221	380.	514.	380.	2	0	0	.00	141.73	1334.45

*SECNO 86.000

3301 HV CHANGED MORE THAN HVINS

86.00	4.19	6426.19	.00	.00	6426.65	.46	4.43	.09	6428.00
4460.	0.	4460.	0.	0.	818.	0.	908.	218.	6428.00
.97	.00	5.46	.00	.000	.035	.000	.000	6422.00	1059.49
.012967	640.	408.	270.	5	0	0	.00	680.89	1740.38

*SECNO 87.000

87.00	2.09	6432.09	.00	.00	6432.55	.45	5.90	.00	6436.00
4460.	0.	4460.	0.	0.	827.	0.	920.	226.	6436.00
1.00	.00	5.39	.00	.000	.035	.000	.000	6430.00	1241.77
.007524	560.	608.	540.	4	0	0	.00	466.70	1708.46

*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	6.00	6442.00	6442.00	.00	6442.99	.98	3.53	.16	6440.00
4460.	1241.	3182.	38.	315.	350.	12.	929.	231.	6440.00
1.02	3.94	9.08	3.11	.035	.035	.035	.000	6436.00	1069.90
.005445	420.	576.	768.	20	20	0	.00	328.95	1398.85

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	MTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*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	6.44	6448.44	6448.44	.00	6450.87	2.42	4.14	.43	6448.00
4460.	0.	4459.	1.	0.	357.	1.	936.	233.	6448.00
1.03	1.52	12.50	1.63	.035	.035	.035	.000	6442.00	1013.11
.011106	600.	540.	700.	20	8	0	.00	77.99	1091.10

*SECNO 90.000

90.00	5.85	6453.85	.00	.00	6456.10	2.25	5.21	.02	6456.00
4460.	0.	4460.	0.	0.	371.	0.	940.	234.	6454.00
1.04	.00	12.03	.00	.000	.035	.000	.000	6448.00	1010.29
.010041	492.	494.	488.	2	0	0	.00	75.41	1085.71

*SECNO 91.000

35 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

91.00	6.36	6460.36	6460.36	.00	6462.81	2.45	4.99	.06	6462.00
3850.	0.	3850.	0.	0.	306.	0.	943.	235.	6462.00
1.05	.00	12.56	.00	.000	.035	.000	.000	6454.00	1007.28
.011371	468.	470.	472.	3	8	0	.00	63.43	1070.72

*SECNO 92.000

3301 HV CHANGED MORE THAN HVINS

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

92.00	5.73	6465.73	.00	.00	6466.78	1.05	3.83	.14	6468.00
3850.	0.	3850.	0.	0.	467.	0.	948.	236.	6468.00
1.07	.00	8.24	.00	.000	.035	.000	.000	6460.00	1007.42
.004846	536.	540.	540.	2	0	0	.00	98.02	1105.44

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	CLOSS	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 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	4.61	6472.61	6472.61	.00	6474.43	1.82	3.30	.23	6474.00
3850.	0.	3850.	0.	0.	356.	0.	953.	237.	6474.00
1.08	.00	10.82	.00	.000	.035	.000	.000	6468.00	1017.71
.011997	456.	456.	464.	20	14	0	.00	99.19	1116.90

CCHV= .300 CEHV= .500

*SECNO 94.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

94.00	4.38	6479.48	6479.48	.00	6481.67	2.19	4.07	.19	6490.60
3850.	0.	3850.	0.	0.	324.	0.	957.	238.	6490.00
1.10	.00	11.87	.00	.000	.020	.000	.000	6475.10	1230.00
.004136	560.	620.	564.	4	8	0	.00	74.00	1304.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6478.67 , NOT 6479.48 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	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 = 1.60

CLASS B LOW FLOW

3420 BRIDGE W.S.= 6480.44 BRIDGE VELOCITY= 12.16 CALCULATED CHANNEL AREA= 265.

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
3	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

EGPRS	EBLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	6483.70	.00	0.	3850.	860.	928.	6488.60	6491.40	0.

NORTH CAREFREE AVE.

94.10	5.88	6482.48	.00	.00	6483.70	1.21	2.03	.00	6492.10
3850.	0.	3850.	0.	0.	435.	0.	958.	238.	6491.50
1.10	.00	8.84	.00	.000	.020	.000	.000	6476.60	1230.00
.001623	100.	100.	100.	0	0	0	.00	74.00	1304.00

CCHV= .100 CEHV= .300

*SECNO 95.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

95.00	3.10	6495.10	6495.10	.00	6496.12	1.02	2.06	.02	6498.00
3850.	0.	3850.	0.	0.	475.	0.	964.	240.	6496.00
1.12	.00	8.11	.00	.000	.035	.000	.000	6492.00	1276.10
.014281	960.	568.	520.	20	11	0	.00	234.51	1510.61

*SECNO 96.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

96.00	3.14	6503.14	6503.14	.00	6504.00	.86	6.33	.02	6506.00
3850.	178.	3672.	0.	56.	484.	0.	970.	244.	6506.00
1.14	3.21	7.59	.00	.035	.035	.000	.000	6500.00	1201.52
.012140	540.	480.	560.	4	5	0	.00	331.59	1604.14

*SECNO 97.000

97.00	3.68	6513.68	.00	.00	6514.38	.70	10.37	.02	6514.00
3670.	0.	3670.	0.	0.	545.	0.	981.	250.	6514.00
1.18	.00	6.73	.00	.000	.035	.000	.000	6510.00	1478.79
.011317	1060.	880.	800.	5	0	0	.00	299.17	1777.96

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
3	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 98.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

98.00	4.88	6518.88	6518.88	.00	6519.72	.84	3.99	.04	6520.00
3670.	508.	3162.	0.	147.	406.	0.	986.	253.	6520.00
1.19	3.45	7.80	.00	.035	.035	.000	.000	6514.00	1108.61
.008622	160.	424.	800.	3	11	0	.00	333.74	1610.19

*SECNO 99.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

99.00	6.49	6524.49	6524.49	.00	6526.45	1.96	5.40	.34	6524.00
3670.	3.	3667.	0.	2.	326.	0.	992.	256.	6524.00
1.21	1.78	11.23	1.41	.035	.035	.035	.000	6518.00	1074.61
011395	760.	532.	520.	0	11	0	.00	89.88	1164.49

*SECNO 100.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

100.00	8.66	6532.66	6532.66	.00	6534.22	1.56	3.83	.04	6530.00
3670.	577.	3064.	29.	131.	284.	8.	996.	257.	6530.00
1.22	4.39	10.80	3.75	.035	.035	.035	.000	6524.00	1012.07
.005565	500.	496.	490.	2	8	0	.00	133.23	1145.30

*SECNO 101.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

101.00	6.72	6544.72	6544.72	.00	6546.23	1.51	6.04	.01	6544.00
3670.	131.	3537.	2.	45.	353.	1.	1004.	260.	6544.00
1.25	2.92	10.01	1.90	.035	.035	.035	.000	6538.00	1042.11
.008074	800.	920.	860.	20	15	0	.00	154.78	1196.89

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

CCHV= .300 CEHV= .500
 *SECNO 102.000

3301 HV CHANGED MORE THAN HVINS

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

102.00	4.41	6548.91	.00	.00	6549.72	.81	3.29	.21	6562.00
3620.	0.	3620.	0.	0.	500.	0.	1011.	262.	6562.00
1.27	.00	7.24	.00	.000	.030	.000	.000	6544.50	1043.52
.003371	570.	660.	550.	2	0	0	.00	121.50	1165.03

SPECIAL BRIDGE

SB	XK	XKOR	COFG	RDLEN	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

EGPRS= .000 EBLWC= 6550.719 ELLC= 6556.500 PCWSE= 6548.907 ELTRD= 6563.100

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

BARNES ROAD

102.10	3.61	6549.11	.00	.00	6550.35	1.25	.42	.22	6563.00
3620.	0.	3620.	0.	0.	404.	0.	1012.	262.	6563.00
1.27	.00	8.96	.00	.000	.030	.000	.000	6545.50	1044.34
.006693	90.	90.	90.	3	0	0	.00	119.96	1164.30

CCHV= .100 CEHV= .300
 *SECNO 103.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

103.00	8.77	6564.77	6564.77	.00	6566.17	1.40	2.38	.05	6562.00
3620.	284.	3214.	123.	85.	322.	25.	1015.	263.	6562.00
1.28	3.34	9.98	4.88	.035	.035	.035	.000	6556.00	1038.05
.006348	328.	368.	300.	20	26	0	.00	180.72	1218.77

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 104.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

104.00	2.77	6572.77	6572.77	.00	6573.53	.76	4.79	.06	6576.00
3620.	0.	3620.	0.	0.	516.	0.	1021.	266.	6578.00
1.30	.00	7.01	.00	.000	.035	.000	.000	6570.00	1048.31
.016033	480.	500.	560.	20	17	0	.00	346.15	1420.30

*SECNO 105.000

3265 DIVIDED FLOW

1 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

105.00	4.54	6582.54	6582.54	.00	6583.81	1.27	7.45	.15	6584.00
3320.	0.	3320.	0.	0.	368.	0.	1026.	269.	6586.00
1.32	.00	9.03	.00	.000	.035	.000	.000	6578.00	1075.35
.013568	580.	504.	390.	3	14	0	.00	147.68	1256.54

*SECNO 106.000

3301 HV CHANGED MORE THAN HVINS

7195 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

106.00	8.63	6588.63	6588.63	.00	6590.55	1.91	6.00	.19	6586.00
3320.	187.	2997.	136.	37.	259.	27.	1031.	271.	6586.00
1.34	5.12	11.57	5.08	.035	.035	.035	.000	6580.00	1004.10
.007789	640.	594.	600.	3	17	0	.00	88.11	1092.21

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

*SECNO 107.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

107.00	8.36	6598.36	6598.36	.00	6600.67	2.31	5.20	.12	6596.00
3320.	70.	3250.	0.	14.	264.	0.	1035.	272.	6598.00
1.35	5.05	12.30	.04	.035	.035	.035	.000	6590.00	1006.55
.009886	640.	592.	620.	20	8	0	.00	61.81	1068.36

*SECNO 108.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

108.00	7.61	6607.61	6607.61	.00	6609.76	2.14	5.46	.02	6606.00
3320.	25.	3295.	0.	7.	279.	0.	1038.	273.	6608.00
1.36	3.82	11.79	.00	.035	.035	.000	.000	6600.00	1009.93
.011041	460.	524.	480.	13	11	0	.00	71.30	1081.23

*SECNO 109.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

109.00	6.82	6616.82	6616.82	.00	6618.57	1.75	7.22	.04	6616.00
3170.	9.	3160.	2.	3.	297.	1.	1042.	274.	6616.00
1.38	2.56	10.64	2.38	.035	.035	.035	.000	6610.00	1017.80
.012005	580.	628.	540.	5	15	0	.00	93.84	1111.64

*SECNO 110.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

110.00	5.72	6625.72	6625.72	.00	6627.17	1.45	5.90	.03	6628.00
3170.	0.	3170.	0.	0.	328.	0.	1046.	275.	6626.00
1.39	.00	9.65	.00	.000	.035	.000	.000	6620.00	1015.13
.013248	560.	468.	360.	13	15	0	.00	117.22	1132.34

*SECNO 111.000

111.00	4.94	6630.94	.00	.00	6631.92	.98	4.71	.05	6632.00
3170.	0.	3170.	0.	0.	399.	0.	1050.	276.	6634.00
1.41	.00	7.94	.00	.000	.035	.000	.000	6626.00	1106.37
.008535	400.	448.	440.	2	0	0	.00	137.53	1243.90

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

*SECNO 112.000

112.00	5.95	6635.95	.00	.00	6636.54	.59	4.58	.04	6636.00
3170.	0.	3170.	0.	0.	514.	0.	1056.	279.	6636.00
1.43	.00	6.17	.00	.000	.035	.000	.000	6630.00	1026.42
.007037	480.	592.	680.	4	0	0	.00	224.79	1251.21

*SECNO 113.000

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

113.00	3.33	6643.33	6643.33	.00	6644.21	.88	3.98	.09	6646.00
3170.	0.	3170.	0.	0.	420.	0.	1060.	281.	6646.00
1.45	.00	7.55	.00	.000	.035	.000	.000	6640.00	1028.68
.015085	540.	400.	240.	20	11	0	.00	241.13	1269.80

*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	6663.45	.85	8.11	.00	6666.00
3170.	0.	3170.	0.	0.	428.	0.	1065.	284.	6668.00
1.47	.00	7.41	.00	.000	.035	.000	.000	6660.00	1049.85
.015642	400.	528.	500.	20	15	0	.00	259.11	1308.96

*SECNO 115.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 4.03

115.00	4.99	6664.99	.00	.00	6665.13	.14	1.61	.07	6668.00
3170.	0.	3154.	16.	0.	1040.	20.	1076.	288.	6664.00
1.53	.00	3.03	.83	.000	.035	.035	.000	6660.00	1040.02
.000964	600.	652.	660.	6	0	0	.00	337.76	1377.79

*SECNO 116.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	BLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLORL	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

116.00	1.56	6669.56	6669.56	.00	6670.34	.78	1.16	.19	6674.00
2780.	0.	2780.	0.	0.	393.	0.	1085.	292.	6674.00
1.55	.00	7.08	.00	.000	.035	.000	.000	6668.00	1134.19
.015821	520.	506.	580.	20	17	0	.00	256.93	1391.12

*SECNO 117.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

117.00	2.24	6678.24	6678.24	.00	6679.15	.91	6.73	.04	6682.00
2780.	0.	2780.	0.	0.	363.	0.	1089.	294.	6684.00
1.56	.00	7.65	.00	.000	.035	.000	.000	6676.00	1131.87
.014803	375.	440.	540.	20	11	0	.00	200.37	1332.24

*SECNO 118.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

118.00	4.68	6688.68	6688.68	.00	6690.25	1.57	8.10	.20	6690.00
2780.	0.	2780.	0.	0.	276.	0.	1093.	296.	6690.00
1.58	.00	10.06	.00	.000	.035	.000	.000	6684.00	1109.95
.012525	536.	596.	616.	3	17	0	.00	88.85	1198.79

*SECNO 119.000

3301 HV CHANGED MORE THAN HVINS

119.00	1.46	6695.46	.00	.00	6695.84	.38	5.47	.12	6702.00
2780.	0.	2780.	0.	0.	559.	0.	1098.	299.	6702.00
1.61	.00	4.98	.00	.000	.035	.000	.000	6694.00	1028.17
.008472	624.	536.	495.	4	0	0	.00	388.21	1416.37

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

*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	4.64	6704.64	6704.64	.00	6706.23	1.59	4.83	.36	6708.00
2780.	0.	2780.	0.	0.	275.	0.	1103.	302.	6706.00
1.62	.00	10.12	.00	.000	.035	.000	.000	6700.00	1016.09
.012590	480.	472.	410.	20	23	0	.00	87.83	1103.91

*SECNO 121.000

3301 HV CHANGED MORE THAN HVINS

121.00	2.03	6712.03	.00	.00	6712.54	.51	6.21	.11	6716.00
2780.	0.	2780.	0.	0.	484.	0.	1108.	304.	6716.00
1.65	.00	5.74	.00	.000	.035	.000	.000	6710.00	1223.85
.008345	440.	612.	510.	4	0	0	.00	268.42	1492.27

*SECNO 122.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

122.00	1.99	6717.99	6717.99	.00	6718.80	.81	5.44	.09	6722.00
2780.	0.	2780.	0.	0.	386.	0.	1113.	307.	6722.00
1.67	.00	7.21	.00	.000	.035	.000	.000	6716.00	1068.33
.015641	405.	488.	440.	8	5	0	.00	243.49	1311.82

*SECNO 123.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.83

123.00	3.81	6721.81	.00	.00	6722.13	.32	3.29	.05	6726.00
2780.	0.	2780.	0.	0.	612.	0.	1118.	310.	6724.00
1.70	.00	4.54	.00	.000	.035	.000	.000	6718.00	1084.39
.004681	232.	420.	560.	3	0	0	.00	312.66	1397.05

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

*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	3.65	6729.65	6729.65	.00	6730.67	1.02	3.66	.21	6734.00
2730.	0.	2730.	0.	0.	337.	0.	1123.	312.	6734.00
1.71	.00	8.10	.00	.000	.035	.000	.000	6726.00	1270.35
.014930	520.	478.	512.	20	11	0	.00	171.74	1442.09

*SECNO 125.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

125.00	5.32	6737.32	6737.32	.00	6738.80	1.48	6.68	.14	6736.00
2730.	54.	2676.	0.	16.	272.	0.	1127.	314.	6738.00
1.73	3.41	9.85	.00	.035	.035	.000	.000	6732.00	1056.17
.011209	460.	520.	360.	4	14	0	.00	106.47	1162.65

*SECNO 126.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

126.00	6.50	6746.50	6746.50	.00	6747.38	.88	6.72	.06	6746.00
2730.	4.	2536.	190.	3.	326.	81.	1132.	317.	6746.00
1.76	1.49	7.78	2.36	.035	.035	.035	.000	6740.00	1103.98
.007772	580.	728.	720.	4	11	0	.00	280.02	1384.00

*SECNO 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	8.57	6754.57	6754.57	.00	6756.39	1.83	4.08	.28	6754.00
2730.	0.	2443.	287.	0.	216.	57.	1137.	319.	6752.00
1.77	1.50	11.33	5.02	.035	.035	.035	.000	6746.00	1002.86
.007803	560.	524.	520.	20	11	0	.00	77.41	1080.27

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

*SECNO 128.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

128.00	7.70	6761.70	6761.70	.00	6763.52	1.83	4.91	.00	6760.00
2730.	9.	2612.	109.	3.	236.	32.	1140.	320.	6760.00
1.79	3.20	11.07	3.44	.035	.035	.035	.000	6754.00	1002.61
.008218	472.	616.	580.	4	8	0	.00	86.69	1089.30

*SECNO 129.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

129.00	6.73	6768.73	6768.73	.00	6770.40	1.67	5.74	.02	6770.00
2730.	0.	2730.	0.	0.	263.	0.	1144.	321.	6770.00
1.80	.00	10.38	.00	.000	.035	.000	.000	6762.00	1008.54
.013265	568.	560.	440.	10	15	0	.00	82.18	1090.73

*SECNO 130.000

7701 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.49

130.00	6.94	6772.94	.00	.00	6773.34	.41	2.82	.13	6772.00
2730.	8.	2700.	22.	7.	524.	19.	1150.	323.	6772.00
1.84	1.18	5.15	1.18	.035	.035	.035	.000	6766.00	1051.97
.002133	688.	648.	632.	5	0	0	.00	176.26	1228.23

*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	2.82	6788.82	6788.82	.00	6789.94	1.12	2.26	.21	6790.00
2730.	0.	2730.	0.	0.	321.	0.	1155.	325.	6792.00
1.85	.00	8.50	.00	.000	.035	.000	.000	6786.00	1197.92
.013928	480.	512.	500.	20	18	0	.00	145.07	1342.99

SECD0	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	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 132.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

132.00	3.41	6797.41	6797.41	.00	6798.48	1.07	7.59	.01	6800.00
2730.	0.	2730.	0.	0.	329.	0.	1159.	327.	6798.00
1.87	.00	8.30	.00	.000	.035	.000	.000	6794.00	1156.91
.014403	456.	526.	568.	3	11	0	.00	157.53	1314.44

*SECNO 133.000

133.00	4.05	6804.05	.00	.00	6804.89	.84	6.39	.02	6804.00
2730.	0.	2730.	0.	0.	372.	0.	1163.	329.	6806.00
1.89	.05	7.34	.00	.035	.035	.000	.000	6800.00	1086.81
.011578	584.	496.	416.	3	0	0	.00	183.41	1270.22

*SECNO 134.000

134.00	3.82	6809.82	.00	.00	6810.69	.87	5.79	.01	6812.00
2730.	0.	2730.	0.	0.	364.	0.	1168.	331.	6810.00
1.91	.00	7.49	.00	.000	.035	.000	.000	6806.00	1014.37
.009549	256.	552.	580.	3	0	0	.00	149.06	1163.42

*SECNO 135.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

135.00	3.46	6817.46	6817.46	.00	6818.51	1.05	5.67	.05	6820.00
2730.	0.	2730.	0.	0.	332.	0.	1171.	333.	6820.00
1.93	.00	8.22	.00	.000	.035	.000	.000	6814.00	1036.53
.014436	480.	488.	460.	13	11	0	.00	161.83	1198.37

*SECNO 136.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

136.00	2.61	6826.61	6826.61	.00	6827.53	.92	7.61	.01	6832.00
2730.	0.	2730.	0.	0.	355.	0.	1175.	335.	6832.00
1.94	.00	7.70	.00	.000	.035	.000	.000	6824.00	1162.27
.014828	540.	520.	488.	8	15	0	.00	194.77	1357.04

*SECNO 137.000

7185 MINIMUM SPECIFIC ENERGY

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	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

3720 CRITICAL DEPTH ASSUMED

137.00	5.30	6833.30	6833.30	.00	6834.43	1.13	5.29	.06	6836.00
2730.	0.	2730.	0.	0.	320.	0.	1178.	336.	6838.00
1.96	.00	8.54	.00	.000	.035	.000	.000	6828.00	1060.90
.014565	460.	360.	352.	3	20	0	.00	148.18	1209.08

*SECNO 138.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

138.00	2.26	6842.26	6842.26	.00	6843.24	.98	6.51	.01	6846.00
2510.	0.	2510.	0.	0.	316.	0.	1182.	338.	6846.00
1.97	.00	7.96	.00	.000	.035	.000	.000	6840.00	1169.93
.014488	488.	448.	400.	4	14	0	.00	162.15	1332.07

*SECNO 139.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

139.00	3.24	6853.24	6853.24	.00	6854.12	.87	9.23	.01	6854.00
2510.	0.	2510.	0.	0.	335.	0.	1186.	341.	6856.00
1.99	.00	7.49	.00	.000	.035	.000	.000	6850.00	1359.66
.015317	600.	620.	630.	8	14	0	.00	196.57	1556.22

*SECNO 140.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

140.00	2.63	6870.63	6870.63	.00	6871.21	.59	15.31	.03	6874.00
2510.	0.	2510.	0.	0.	408.	0.	1194.	347.	6874.00
2.04	.00	6.15	.00	.000	.035	.000	.000	6868.00	1395.79
.016974	800.	950.	1000.	9	16	0	.00	347.97	1743.76

CDHV= .300 CEHV= .500

*SECNO 141.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

141.00	5.75	6879.75	6879.75	.00	6881.64	1.89	3.68	.65	6882.00
2510.	0.	2510.	0.	0.	227.	0.	1198.	349.	6882.00
2.05	.00	11.03	.00	.000	.020	.000	.000	6874.00	1400.00
.004343	480.	480.	468.	4	17	0	.00	61.13	1461.13

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	GLOSS	BANK ELEV
?	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	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= 6880.420 EGLWC= 6881.858 ELLC= 6880.000 PCWSE= 6879.750 ELTRD= 6882.000

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF 6880.000 EGLC= 6881.841 EGC= 6881.846 WSEL= 6879.845

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

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

141.10	5.84	6880.04	6880.00	.00	6881.88	1.84	.23	.01	6882.20
2510.	0.	2510.	0.	0.	231.	0.	1198.	349.	6882.20
2.05	.00	10.89	.00	.000	.020	.000	.000	6874.20	1400.00
.009923	36.	36.	36.	4	12	0	-2.53	61.81	1461.81

ECHV= .100 CEHV= .300

*SECNO 142.000

3301 HV CHANGED MORE THAN HVINS

142.00	3.87	6885.87	.00	.00	6886.36	.49	4.34	.13	6888.00
2510.	0.	2510.	0.	0.	446.	0.	1202.	351.	6888.00
2.08	.00	5.62	.00	.000	.035	.000	.000	6882.00	1190.67
.006223	600.	560.	528.	4	0	0	.00	204.80	1395.47

*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	3.21	6893.21	6893.21	.00	6894.23	1.02	4.19	.16	6896.00
2510.	0.	2510.	0.	0.	310.	0.	1206.	352.	6896.00
2.09	.00	8.10	.00	.000	.035	.000	.000	6890.00	1125.15
014603	540.	460.	392.	20	15	0	.00	155.83	1280.98

SECNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	OLOSS	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 144.000

144.00	4.41	6900.41	.00	.00	6901.36	.95	7.12	.01	6906.00
2510.	0.	2510.	0.	0.	321.	0.	1210.	354.	6906.00
2.11	.00	7.83	.00	.000	.035	.000	.000	6896.00	1185.13
.013257	560.	512.	520.	4	0	0	.00	157.72	1342.84

*SECNO 145.000

145.00	2.86	6906.86	.00	.00	6907.60	.74	6.22	.02	6910.00
2510.	0.	2510.	0.	0.	363.	0.	1214.	356.	6908.00
2.13	.00	6.92	.00	.000	.035	.000	.000	6904.00	1130.02
.013109	520.	472.	460.	4	0	0	.00	213.11	1343.14

*SECNO 146.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

7720 CRITICAL DEPTH ASSUMED

146.00	4.08	6918.08	6918.08	.00	6919.38	1.30	7.35	.17	6922.00
2460.	0.	2460.	0.	0.	268.	0.	1218.	358.	6922.00
2.15	.00	9.16	.00	.000	.035	.000	.000	6914.00	1063.76
.013541	572.	552.	552.	20	14	0	.00	105.05	1168.81

*SECNO 147.000

147.00	4.94	6924.94	.00	.00	6925.86	.91	6.43	.04	6926.00
2460.	0.	2460.	0.	0.	321.	0.	1221.	360.	6926.00
2.17	.00	7.67	.00	.000	.035	.000	.000	6920.00	1124.22
.010869	280.	532.	620.	4	0	0	.00	140.05	1264.28

*SECNO 148.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

148.00	4.73	6934.73	6934.73	.00	6935.89	1.17	7.52	.08	6936.00
2460.	0.	2460.	0.	0.	284.	0.	1225.	362.	6938.00
2.19	.00	8.66	.00	.000	.035	.000	.000	6930.00	1081.08
.014602	668.	600.	504.	10	11	0	.00	128.37	1209.46

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 149.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

149.00	4.71	6940.71	6940.71	.00	6941.96	1.25	5.95	.02	6942.00
2460.	0.	2460.	0.	0.	275.	0.	1228.	363.	6942.00
2.20	.00	8.96	.00	.000	.035	.000	.000	6936.00	1329.02
.013765	296.	420.	572.	3	5	0	.00	113.38	1442.40

*SECNO 150.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

150.00	5.85	6947.85	.00	.00	6948.66	.81	6.66	.04	6948.00
2460.	0.	2460.	0.	0.	340.	0.	1232.	365.	6950.00
2.22	.00	7.23	.00	.000	.035	.000	.000	6942.00	1048.31
.009720	564.	580.	528.	3	0	0	.00	148.63	1196.95

*SECNO 151.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

151.00	6.06	6956.06	6956.06	.00	6957.26	1.21	4.32	.12	6954.00
2460.	184.	2206.	70.	44.	240.	17.	1236.	366.	6954.00
2.24	4.14	9.20	4.12	.035	.035	.035	.000	6950.00	1027.83
.008870	524.	464.	384.	12	8	0	.00	126.39	1154.22

*SECNO 152.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

152.00	4.03	6964.03	6964.03	.00	6965.31	1.27	5.91	.02	6966.00
2460.	0.	2460.	0.	0.	272.	0.	1239.	368.	6966.00
2.25	.00	9.05	.00	.000	.035	.000	.000	6960.00	1063.93
.013813	580.	540.	472.	15	19	0	.00	110.10	1174.03

**SAND CREEK
DRAINAGE BASIN PLANNING STUDY
Preliminary Design Report Hydrology
Technical Addendum**

**Existing Condition HEC-2 Input and Output
West Fork Sand Creek, 10- and 100-year Discharges**

SUMMARY OF CROSS-SECTION LOCATIONS

XSEC NO.	STREET NAME
7.1	WOOTON ROAD
10.1	PLATTE AVENUE (U.S. 24)
16.1	GALLEY ROAD
21.1	MURRAY
24.1	PALMER PARK BLVD.
30.1	CONSTITUTION AVE.
35.1	MAIZELAND
41.1	SOUTH CAREFREE AVE.
48.1	ORO BLANCO

NC	.016	.016	.013	.30	.5					
X1	7	9	1210	1248	65	70	65			
GR	6160	1000	6158	1125	6158	1210	6144	1210	6144	1248
GR	6158	1248	6158	1305	6160	1360	6164	1505		
SB	1.25	1.5	1.56	0	38	2	380	0	6144	6144
			WOOTON ROAD							
X1	7.1	0	0	0	85	85	85			
X2	0	0	1	6154	6158					
BT	9	1000	6160	6160	1125	6158	6158	1210	6158	6158
BT	1210	6158	6154	1248	6158	6154	1248	6158	6158	1305
BT	6158	6158	1360	6160	6160	1505	6164	6164		
NC	.035	.035	.025	.1	.3					
QT	2	6860	3230							
X1	8	7	1097	1190	500	460	500			
GR	6162	1000	6160	1040	6160	1097	6146.2	1120	6146.2	1152
GR	6164	1190	6166	1300						
X1	9	8	1155	1240	500	500	500			
GR	6166	1000	6167	1100	6162	1128	6160	1155	6148	1175
GR	6148	1205	6164	1240	6166	1280				
NC	.035	.035	.025	.3	.5					
X1	10	6	1307	1359	500	455	480			
GR	6172	1000	6170	1307	6154	1307	6154	1359	6170	1359
GR	6172	2300								
SB	1.25	1.5	1.56	0	52	3	312	0	6162	6154
			PLATTE AVENUE (U.S. 24)							
X1	10.1	6	1307	1390	210	210	210			
X2	0	0	1	6168	6172					
BT	6	1000	6172	6172	1307	6172	6172	1307	6172	6168
BT	1390	6172	6168	1390	6172	6172	2300	6172	6172	
GR	6172	1000	6172	1307	6162	1307	6162	1390	6172	1390
GR	6172	2300								
NC	.035	.035	.025	.1	.3					
QT	2	6475	3060							
X1	11	10	1355	1460	500	500	500			
GR	6178	1000	6176	1300	6174	1336	6174	1355	6170	1378
GR	6168	1405	6166	1410	6166	1438	6176	1460	6176	1575
X1	12	7	1000	1114	490	510	500			
GR	6180	1000	6167.5	1025	6167.5	1050	6174	1067	6176	1098
GR	6180	1114	6182	1380						
X1	13	12	1165	1265	445	460	450			
GR	6202	1000	6200	1113	6198	1154	6196	1165	6171	1215
GR	6171	1255	6180	1265	6180	1313	6182	1320	6184	1328
GR	6186	1380	6190	1620						

SB	1.25	1.5	1.56	0	42.2	4.2	176	0	6202.7	6201.5
			MURRAY							
X1	21.1	0	0	0	40	40	40			
X2	0	0	1	6207.7	6208.7					
BT	6	1000	6210	6210	1155	6208	6208	1155	6208	6207.7
BT	1197.2	6208	6206.7	1197.2	6208	6208	1470	6210	6210	
NC	.03	.03	.025	.1	.3					
X1	22	6	1105	1175	420	385	400			
GR	6212	1000	6212	1105	6205	1115	6205	1167	6210	1175
GR	6212	1190								
QT	2	4460	2160							
X1	23	5	1000	1076	690	650	670			
GR	6218	1000	6210	1012	6208	1018	6210	1076	6218	1076
NC	.016	.016	.013	.3	.5					
X1	24	12	1115	1169	480	440	460			
GR	6232	680	6230	780	6228	840	6227	880	6226	950
GR	6226	1000	6227	1115	6221.8	1115	6221.8	1169	6227	1169
GR	6228	1235	6230	1340						
SB	1.25	1.5	1.56	0	54	4	150	0	6222.6	6221.6
			PALMER PARK BLVD.							
X1	24.1	0	0	0	50	50	50	0	.70	
X2	0	0	1	6226.1	6226.0	0				
BT	7	1000	6226	6226	1115	6227	6227	1115	6227	6224.8
BT	1169	6227	6224.8	1169	6227	6227	1235	6228	6228	1325
BT	6230	6230								
NC	.03	.03	.025	.1	.3					
X1	25	8	1154	1198	342	342	342			
GR	6233	980	6232	1020	6230	1144	6224	1152	6226	1190
GR	6230	1198	6232	1200	6233	1258				
X1	26	8	1200	1308	450	450	450			
GR	6240	1000	6240	1010	6238	1102	6236	1200	6228	1216
GR	6226	1240	6242	1308	6242	1340				
X1	27	15	1090	1148	460	460	460			
GR	6246	1000	6246	1070	6244	1078	6242	1082	6240	1096
GR	6236	1102	6234	1116	6234	1124	6240	1134	6242	1138
GR	6244	1144	6246	1148	6248	1154	6250	1176	6250	1218
X1	28	14	1568	1630	468	468	468			
GR	6256	1000	6254	1148	6252	1202	6250	1452	6248	1568
GR	6246	1578	6240	1588	6242	1610	6248	1618	6250	1626
GR	6252	1630	6254	1646	6256	1696	6256	1732		

NC	.03	.03	.016	.1	.3					
X1	36	10	1020	1056	516	516	516			
GR	6318	1020	6314	1020	6308	1028	6308	1046	6316	1056
GR	6316	1224	6318	1338	6320	1432	6322	1476	6322	1532
X1	37	10	1062	1095	540	540	540			
GR	6328	1000	6326	1040	6324	1062	6315	1071	6315	1086
GR	6324	1095	6324	1096	6326	1114	6328	1150	6330	1172
X1	38	13	1058	1091	486	486	486			
GR	6336	1000	6336	1018	6334	1030	6332	1042	6330	1058
GR	6321	1067	6321	1082	6330	1091	6330	1101	6331	1105
GR	6332	1108	6334	1112	6336	1125				
X1	39	11	1062	1102	498	498	498			
GR	6344	1000	6344	1036	6342	1062	6333	1071	6333	1093
GR	6342	1102	6342	1120	6344	1130	6346	1190	6348	1212
GR	6348	1228								
X1	40	13	1088	1144	352	352	352			
GR	6352	1000	6352	1062	6350	1080	6348	1088	6346	1095
GR	6344	1097	6342	1104	6342	1128	6344	1134	6346	1140
GR	6348	1144	6350	1170	6352	1252				
NC	.016	.016	.016	.3	.5					
QT	2	1640	810							
X1	41	8	1285	1300	430	410	420			
GR	6366	910	6365.2	1000	6366	1165	6368	1285	6354	1285
GR	6354	1300	6366	1300	6368	1510				
SB	1.25	1.5	1.56	00	15	0	105	0	6356	6354
			SOUTH CAREFREE AVE.							
X1	41.1	8	1285	1300	100	100	100	0	0	
X2	0	0	1	6365	6366					
BT	8	940	6366	6366	1000	6365.2	6365.2	1165	6366	6366
BT	1285	6366	6366	1285	6366	6365	1300	6366	6365	1300
BT	6366	6366	1510	6368	6368					
GR	6366	910	6365.2	1000	6366	1165	6366	1285	6356	1285
GR	6356	1300	6366	1300	6368	1510				
NC	.03	.03	.016	.1	.3					
X1	42	14	1094	1264	460	460	460			
GR	6372	925	6370	1006	6372	1034	6372	1094	6370	1180
GR	6368	1188	6368	1224	6370	1232	6372	1248	6374	1258
GR	6376	1264	6378	1280	6380	1294	6380	1300		
X1	43	12	1268	1322	522	522	522			
GR	6384	1000	6384	1248	6382	1268	6378	1276	6376	1306
GR	6378	1310	6380	1314	6382	1322	6384	1330	6386	1337
GR	6388	1346	6388	1356						

QT	2	1370	700							
NC	.03	.03	.025	.1	.3					
X1	44	13	1378	1434	530	530	530			
GR	6398	1000	6396	1150	6394	1316	6392	1368	6390	1378
GR	6388	1382	6386	1412	6388	1418	6390	1434	6392	1462
GR	6394	1476	6396	1488	6398	1506				
X1	45	12	1464	1506	548	548	548			
GR	6410	1000	6408	1418	6406	1444	6404	1458	6402	1464
GR	6398	1470	6398	1502	6402	1506	6404	1514	6406	1522
GR	6408	1533	6410	1548						
X1	46	14	1064	1109	526	526	526			
GR	6420	1000	6420	1008	6418	1030	6416	1056	6414	1064
GR	6410	1070	6410	1098	6416	1109	6418	1134	6420	1140
GR	6422	1146	6424	1154	6426	1164	6426	1184		
X1	47	17	1062	1112	490	490	490			
GR	6432	1000	6432	1038	6430	1040	6428	1048	6426	1062
GR	6424	1072	6422	1076	6422	1104	6426	1112	6428	1128
GR	6430	1140	6432	1148	6434	1156	6436	1162	6438	1166
GR	6440	1184	6440	1194						
NC	.016	.016	.013	.3	.5					
X1	48	7	1130	1145	430	390	380			
GR	6448	1000	6444	1060	6442	1130	6430.9	1130	6430.9	1145
GR	6442	1145	6442	1210						
SB	1.25	1.5	1.56	0	15	0	105	0	6431.9	6430.9
			ORD BLANCO							
X1	48.1	0	0	0	80	80	80	0	1.0	
X2	0	0	1	6438.9	6443					
BT	7	1000	6448	6448	1060	6444	6444	1130	6442	6442
BT	1130	6442	6437.9	1145	6442	6437.9	1145	6442	6442	1210
BT	6442	6442								
NC	.03	.03	.025	.1	.3					
X1	49	14	1210	1242	508	508	508			
GR	6460	1000	6458	1108	6456	1176	6454	1184	6452	1194
GR	6450	1210	6448	1222	6446	1226	6444	1232	6450	1242
GR	6452	1256	6454	1276	6456	1308	6456	1340		
X1	50	13	1024	1074	504	504	504			
GR	6472	1000	6472	1008	6470	1014	6468	1019	6466	1024
GR	6464	1028	6462	1034	6460	1042	6462	1046	6464	1054
GR	6466	1074	6468	1120	6468	1152				
X1	51	18	1026	1074	488	488	488			
GR	6488	1000	6488	1006	6486	1018	6484	1026	6482	1026
GR	6480	1038	6476	1050	6480	1059	6480	1068	6482	1074
GR	6484	1080	6486	1090	6488	1098	6490	1106	6492	1114
GR	6494	1122	6496	1134	6496	1160				

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X1	52	19	1072	1120	496	496	496			
GR	6515	1000	6512	1036	6510	1044	6508	1065	6506	1072
GR	6504	1078	6502	1096	6500	1100	6502	1104	6504	1110
GR	6506	1120	6508	1124	6510	1140	6512	1146	6514	1146
GR	6516	1154	6518	1166	6520	1178	6522	1244		
X1	53	14	1090	1154	516	516	516			
GR	6542	1000	6542	1018	6540	1048	6538	1056	6536	1062
GR	6534	1070	6532	1078	6530	1090	6528	1130	6524	1138
GR	6526	1142	6528	1148	6530	1154	6532	1174		
X1	54	10	1042	1088	506	506	506			
GR	6552	1000	6550	1042	6548	1066	6546	1070	6548	1072
GR	6548	1086	6550	1088	6552	1102	6550	1164	6552	1275

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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

#PROF 1

CEHV= .100 CEHV= .300

#SECNO 48.000

48.00	5.50	6123.50	.00	6123.50	6123.65	.15	.00	.00	6130.00
3198.	0.	3198.	0.	0.	1021.	0.	0.	0.	6140.00
.00	.00	3.13	.00	.000	.025	.000	.000	6118.00	1278.54
.000465	0.	0.	0.	0	0	0	.00	266.21	1544.75

#SECNO 2.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

2.00	6.19	6127.49	6127.49	.00	6129.86	2.39	.57	.67	6140.00
3200.	0.	3200.	0.	0.	258.	0.	7.	2.	6130.00
.01	.00	12.40	.00	.000	.025	.000	.000	6121.30	1095.42
.005842	340.	500.	880.	20	8	0	.00	54.38	1149.81

#SECNO 3.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3.00	7.07	6130.67	6130.67	.00	6133.15	2.47	2.89	.03	6140.00
3200.	0.	3198.	2.	0.	253.	1.	10.	2.	6130.00
.02	.00	12.62	1.78	.000	.025	.030	.000	6123.60	1079.30
.005704	490.	500.	490.	1	8	0	.00	53.48	1132.78

#SECNO 4.000

3301 HV CHANGED MORE THAN HVINS

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

4.00	6.79	6133.79	.00	.00	6135.10	1.31	1.84	.12	6138.00
3200.	0.	3200.	0.	0.	348.	0.	14.	3.	6150.00
.04	.00	9.19	.00	.000	.025	.000	.000	6127.00	1112.60
.002558	490.	500.	510.	2	0	0	.00	60.62	1173.21

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

*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	6.33	6138.33	6138.33	.00	6140.94	2.61	1.88	.39	6148.00
3200.	0.	3200.	0.	0.	247.	0.	17.	4.	6146.00
.05	.00	12.97	.00	.000	.025	.000	.000	6132.00	1190.65
.006074	520.	500.	350.	20	11	0	.00	47.92	1238.57

*SECNO 6.000

3301 HV CHANGED MORE THAN HVINS

6.00	4.98	6142.98	.00	.00	6144.67	1.69	3.63	.09	6158.00
3200.	0.	3200.	0.	0.	307.	0.	21.	5.	6156.00
.07	.00	10.42	.00	.000	.025	.000	.000	6138.00	1060.54
.004727	460.	680.	620.	3	0	0	.00	73.30	1133.83

CCRHV= .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	6.02	6150.02	6150.02	.00	6153.06	3.04	.19	.68	6158.00
3200.	0.	3200.	0.	0.	229.	0.	22.	5.	6158.00
.07	.00	13.99	.00	.000	.013	.000	.000	6144.00	1210.00
.001974	65.	65.	70.	20	11	0	.00	38.00	1248.00

SPECIAL BRIDGE

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

5227 DOWNSTREAM ELEV IS 6149.04 , NOT 6150.02 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	38.00	2.00	380.00	.00	6144.00	6144.00

*SECNO 7.100

3301 HV CHANGED MORE THAN HVINS

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

CLASS B LOW FLOW

3420 BRIDGE W.S.= 6150.26 BRIDGE VELOCITY= 14.20 CALCULATED CHANNEL AREA= 225.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	6153.63	.00	0.	3200.	380.	360.	6154.00	6158.00	0.

WOOTON ROAD

7.10	7.83	6151.83	.00	.00	6153.63	1.80	.57	.00	6158.00
3200.	0.	3200.	0.	0.	298.	0.	22.	5.	6158.00
.07	.00	10.75	.00	.000	.013	.000	.000	6144.00	1210.00
.000901	85.	85.	85.	0	0	0	.00	38.00	1248.00

CCHV= .100 CEHV= .300

*SECNO 8.000

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

8.00	6.29	6152.49	.00	.00	6154.61	2.12	.89	.10	6160.00
3230.	0.	3230.	0.	0.	277.	0.	26.	5.	6164.00
.08	.00	11.67	.00	.000	.025	.000	.000	6146.20	1109.51
.004918	500.	500.	460.	2	0	0	.00	55.93	1165.44

*SECNO 9.000

9.00	7.02	6155.02	.00	.00	6156.75	1.73	2.11	.04	6160.00
3230.	0.	3230.	0.	0.	306.	0.	29.	6.	6164.00
.09	.00	10.56	.00	.000	.025	.000	.000	6148.00	1163.30
.003646	500.	500.	500.	3	0	0	.00	57.07	1220.36

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

CCHV= .300 CEHV= .500
 *SECNO 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	4.92	6158.92	6158.92	.00	6161.40	2.48	2.33	.37	6170.00
3230.	0.	3230.	0.	0.	256.	0.	32.	7.	6170.00
.11	.00	12.64	.00	.000	.025	.000	.000	6154.00	1307.00
.006814	500.	480.	455.	20	18	0	.00	52.00	1359.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6158.08 , NOT 6158.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	52.00	3.00	312.00	.00	6162.00	6154.00

*SECNO 10.100

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.57

CLASS B LOW FLOW

3420 BRIDGE W.S.= 6163.13 BRIDGE VELOCITY= 12.86 CALCULATED CHANNEL AREA= 55.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6161.41	6169.03	.00	0.	3230.	312.	294.	6168.00	6172.00	0.

PLATTE AVENUE (U.S. 24)

10.10	6.47	6168.47	.00	.00	6169.03	.56	7.64	.00	6172.00
3230.	0.	3230.	0.	0.	537.	0.	34.	7.	6172.00
.11	.00	6.02	.00	.000	.025	.000	.000	6162.00	1307.00
.001031	210.	210.	210.	0	0	0	.00	83.00	1390.00

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

CCHV= .100 CEHV= .300

*SECNO 11.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

11.00	5.51	6171.51	6171.51	.00	6173.31	1.80	1.02	.37	6174.00
3060.	0.	3060.	0.	0.	284.	0.	39.	8.	6176.00
.13	.00	10.76	.00	.000	.025	.000	.000	6166.00	1369.32
.006295	500.	500.	500.	20	15	0	.00	80.79	1450.12

*SECNO 12.000

12.00	6.66	6174.16	.00	.00	6176.17	2.01	2.80	.06	6180.00
3060.	0.	3060.	0.	0.	269.	0.	42.	9.	6180.00
.14	.00	11.38	.00	.000	.025	.000	.000	6167.50	1011.68
.005018	490.	500.	510.	3	0	0	.00	57.78	1069.46

*SECNO 13.000

13.00	5.43	6176.43	.00	.00	6178.53	2.10	2.33	.03	6196.00
3060.	0.	3060.	0.	0.	263.	0.	45.	9.	6180.00
.15	.00	11.62	.00	.000	.025	.000	.000	6171.00	1204.13
.005351	445.	450.	460.	3	0	0	.00	56.91	1261.04

*SECNO 14.000

3301 HV CHANGED MORE THAN HVINS

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

14.00	5.42	6179.12	.00	.00	6180.13	1.01	1.50	.11	6200.00
3060.	0.	3060.	0.	0.	379.	0.	48.	10.	6182.00
.17	.00	8.07	.00	.000	.025	.000	.000	6173.70	1143.49
.002546	425.	420.	415.	2	0	0	.00	83.05	1226.54

*SECNO 15.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLDS	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

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

15.00	7.12	6182.82	6182.82	.00	6185.78	2.96	1.48	.58	6196.00
3230.	0.	3230.	0.	0.	234.	0.	50.	10.	6194.00
.17	.00	13.80	.00	.000	.025	.000	.000	6175.70	1178.25
.006473	405.	380.	375.	20	11	0	.00	40.00	1218.25

CCNV= .300 CEHV= 5.000

*SECNO 16.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

16.00	4.95	6192.95	6192.95	.00	6195.44	2.49	1.18	.14	6195.00
3230.	0.	3230.	0.	0.	255.	0.	53.	11.	6195.00
.18	.00	12.67	.00	.000	.013	.000	.000	6188.00	1540.00
.001843	375.	375.	375.	8	19	0	.00	51.50	1591.50

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6192.14 , NOT 6192.95 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	51.50	2.70	200.00	.00	6188.00	6188.00

*SECNO 16.100

3301 HV CHANGED MORE THAN HVINS

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

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6199.02	6195.91	.00	832.	2400.	200.	215.	6192.40	6195.00	685.

GALLEY ROAD

16.10	7.09	6195.09	.00	.00	6196.30	1.21	.86	.00	6195.00
3230.	1.	3229.	0.	2.	365.	0.	53.	11.	6195.00
.18	.29	8.84	.29	.016	.013	.016	.000	6188.00	1490.43
.000605	50.	50.	50.	4	0	4	.00	109.65	1600.08

CCHV= .100 CEHV= .100

*SECNO 17.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

17.00	4.65	6196.65	6196.65	.00	6198.31	1.66	.61	.04	6196.00
3230.	28.	3202.	0.	17.	309.	0.	57.	12.	6198.00
.20	1.66	10.37	.00	.030	.025	.000	.000	6192.00	833.50
.005059	420.	460.	470.	20	14	0	.00	129.86	1108.95

*SECNO 18.000

3265 DIVIDED FLOW

18.00	4.89	6198.89	6198.29	.00	6200.18	1.29	1.84	.04	6198.00
3230.	49.	3181.	0.	29.	346.	0.	60.	14.	6200.00
.21	1.70	9.20	.00	.030	.025	.000	.000	6194.00	846.74
.003516	440.	440.	440.	2	8	0	.00	145.61	1137.21

*SECNO 19.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

19.00	4.70	6200.70	6200.70	.00	6202.21	1.51	1.38	.02	6200.00
3230.	56.	3169.	4.	35.	319.	3.	63.	15.	6200.00
.22	1.60	9.94	1.59	.030	.025	.030	.000	6196.00	962.41
.004197	360.	360.	360.	20	8	0	.00	182.59	1237.92

*SECNO 20.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

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

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

20.00	4.82	6202.82	6202.82	.00	6204.11	1.29	1.24	.02	6202.00
3230.	162.	3064.	4.	75.	327.	3.	66.	16.	6202.00
.23	2.15	9.36	1.62	.030	.025	.030	.000	6198.00	941.83
.003592	315.	320.	325.	20	5	0	.00	215.54	1221.13

CCHV= .300 CEHV= .500

*SECNO 21.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

21.00	4.53	6206.03	6206.03	.00	6208.32	2.29	1.09	.50	6208.00
2320.	0.	2320.	0.	0.	191.	0.	69.	18.	6208.00
.24	.00	12.15	.00	.000	.013	.000	.000	6201.50	1155.00
.001954	370.	400.	410.	20	11	0	.00	42.20	1197.20

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6205.06 , NOT 6206.03 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	42.20	4.20	176.00	.00	6202.70	6201.50

*SECNO 21.100

PRESS FLOW BECAUSE EGLWD OF 6211.51 EXCEEDS 1.5 DEPTH

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.81

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

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

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6210.07	6211.51	.00	278.	2058.	176.	190.	6207.70	6208.70	301.

MURRAY									
21.10	6.65	6208.15	.00	.00	6209.21	1.06	.89	.00	6208.00
2320.	0.	2319.	1.	1.	281.	2.	69.	18.	6208.00
.24	.41	8.26	.41	.016	.013	.016	.000	6201.50	1142.89
.000596	40.	40.	40.	3	0	3	.00	75.62	1218.51

CCHV= .100 CEHV= .300
*SECNO 22.000

3301 HV CHANGED MORE THAN HVINS

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

22.00	3.80	6208.80	6208.80	.00	6210.54	1.74	.56	.20	6212.00
2320.	0.	2320.	0.	0.	219.	0.	71.	18.	6210.00
.25	.00	10.57	.00	.000	.025	.000	.000	6205.00	1109.57
.006350	420.	400.	385.	20	11	0	.00	63.51	1173.08

*SECNO 23.000

3301 HV CHANGED MORE THAN HVINS

23.00	4.81	6212.81	.00	.00	6213.97	1.16	3.38	.06	6218.00
2160.	0.	2160.	0.	0.	250.	0.	75.	19.	6218.00
.27	.00	8.65	.00	.000	.025	.000	.000	6208.00	1007.78
.004045	690.	670.	650.	2	0	0	.00	68.22	1076.00

CCHV= .300 CEHV= .500
*SECNO 24.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

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

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

24.00	3.67	6225.46	6225.46	.00	6227.31	1.85	1.24	.34	6227.00
2160.	0.	2160.	0.	0.	198.	0.	77.	20.	6227.00
.28	.00	10.91	.00	.000	.013	.000	.000	6221.80	1115.00
.001912	480.	460.	440.	20	14	0	.00	54.00	1169.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6224.77 , NOT 6225.46 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	54.00	4.00	150.00	.00	6222.60	6221.80

*SECNO 24.100

PRESS FLOW BECAUSE EGLWC OF 6229.46 EXCEEDS 1.5 DEPTH

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6230.29	6229.46	.00	537.	1610.	150.	175.	6226.10	6226.00	242.

PALMER PARK BLVD.

24.10	4.34	6226.84	.00	.00	6228.15	1.31	.83	.00	6227.70
2160.	7.	2153.	0.	9.	234.	0.	77.	20.	6227.70
.28	.77	9.19	.00	.016	.013	.000	.000	6222.50	940.33
.001115	50.	50.	50.	4	0	0	.00	129.56	1169.00

CCHV= .100 CEHV= .300

*SECNO 25.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

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

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

25.00	5.38	6229.38	6229.38	.00	6231.33	1.95	.75	.19	6224.00
2160.	124.	2036.	0.	19.	178.	0.	79.	21.	6230.00
.29	6.41	11.44	.00	.030	.025	.000	.000	6224.00	1144.82
.006031	342.	342.	342.	20	11	0	.00	51.94	1196.76

*SECNO 26.000

3301 HV CHANGED MORE THAN HVINS

26.00	6.29	6232.29	.00	.00	6233.66	1.37	2.27	.06	6236.00
2160.	0.	2160.	0.	0.	230.	0.	81.	21.	6242.00
.31	.00	9.40	.00	.000	.025	.000	.000	6226.00	1207.41
.004287	450.	450.	450.	2	0	0	.00	59.34	1266.75

*SECNO 27.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

27.00	6.58	6240.58	6240.58	.00	6242.73	2.15	2.36	.23	6242.00
2160.	0.	2160.	0.	0.	184.	0.	83.	22.	6246.00
.32	.00	11.77	.00	.000	.025	.000	.000	6234.00	1091.94
.006265	460.	460.	460.	20	8	0	.00	43.23	1135.16

*SECNO 28.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

28.00	6.79	6246.79	6246.79	.00	6248.97	2.19	2.94	.01	6248.00
2160.	0.	2160.	0.	0.	182.	0.	85.	22.	6252.00
.33	.00	11.86	.00	.000	.025	.000	.000	6240.00	1574.06
.006318	468.	468.	468.	20	8	0	.00	42.32	1616.38

*SECNO 29.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

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

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

29.00	7.07	6251.07	6251.07	.00	6253.26	2.19	2.14	.00	6252.00
2160.	0.	2160.	0.	0.	182.	0.	87.	23.	6256.00
.34	.00	11.87	.00	.000	.025	.000	.000	6244.00	1075.71
.006341	338.	338.	338.	20	8	0	.00	42.43	1118.14

CCHV= .300 CEHV= .500

*SECNO 30.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

30.00	4.89	6263.89	6263.89	.00	6266.36	2.47	1.30	.14	6266.00
2160.	0.	2160.	0.	0.	171.	0.	88.	23.	6266.00
.34	.00	12.62	.00	.000	.013	.000	.000	6259.00	1270.00
.002038	380.	390.	400.	20	19	0	.00	35.00	1305.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6262.91 , NOT 6263.89 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFG	RDLN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	35.00	3.00	182.00	.00	6260.00	6259.00

*SECNO 30.100

6840, FLOW IS BY WEIR AND LOW FLOW

3301 HV CHANGED MORE THAN HVINS

3420 BRIDGE W.S.= 6266.26 BRIDGE VELOCITY= 8.82 CALCULATED CHANNEL AREA= 200.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6267.17	6267.46	2.37	235.	1907.	182.	182.	6265.70	6267.50	176.

CONSTITUTION AVE.

30.10	5.54	6265.54	.00	.00	6267.46	1.92	1.10	.00	6267.00
2160.	0.	2160.	0.	0.	194.	0.	89.	23.	6267.00
.35	.00	11.12	.00	.000	.013	.000	.000	6260.00	1270.00
.001390	80.	80.	80.	4	0	2	.00	35.00	1305.00

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

CCRV= .100 CEHV= .300
 *SECNO 31.000

3301 HV CHANGED MORE THAN HVINS

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

31.00	3.87	6269.87	6269.87	.00	6271.23	1.36	1.20	.06	6272.00
1680.	0.	1680.	0.	0.	179.	0.	91.	24.	6274.00
.36	.00	9.36	.00	.000	.025	.000	.000	6266.00	1058.25
.006919	495.	495.	495.	20	19	0	.00	67.50	1125.75

*SECNO 32.000

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

32.00	3.15	6275.15	6275.15	.00	6276.63	1.48	4.28	.03	6282.00
1680.	0.	1680.	0.	0.	172.	0.	93.	25.	6286.00
.38	.00	9.75	.00	.000	.025	.000	.000	6272.00	1033.80
.006791	624.	624.	624.	3	15	0	.00	59.45	1093.25

*SECNO 33.000

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

33.00	5.02	6283.02	6283.02	.00	6284.50	1.49	3.39	.00	6290.00
1680.	0.	1680.	0.	0.	172.	0.	95.	25.	6288.00
.39	.00	9.79	.00	.000	.025	.000	.000	6278.00	1023.28
.006674	504.	504.	504.	20	14	0	.00	58.81	1082.09

*SECNO 34.000

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

34.00	4.01	6288.01	6288.01	.00	6289.56	1.56	3.32	.02	6296.00
1680.	0.	1680.	0.	0.	168.	0.	97.	26.	6300.00
.41	.00	10.02	.00	.000	.025	.000	.000	6284.00	1021.32
.006621	500.	500.	500.	5	15	0	.00	54.69	1076.01

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

CDHV= .300 CEHV= .500
 *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	4.36	6304.36	6304.36	.00	6306.55	2.19	1.65	.32	6306.80
1450.	0.	1450.	0.	0.	122.	0.	99.	26.	6306.80
.42	.00	11.88	.00	.000	.013	.000	.000	6300.00	1280.00
.002177	450.	450.	450.	20	8	0	.00	28.00	1308.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6303.46 , NOT 6304.36 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	28.00	2.50	127.50	.00	6300.60	6300.00

*SECNO 35.100

6840, FLOW IS BY WEIR AND LOW FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.88

3420 BRIDGE W.S.= 6306.59 BRIDGE VELOCITY= 8.12 CALCULATED CHANNEL AREA= 153.

EBPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6307.37	6307.61	2.23	152.	1301.	128.	128.	6305.60	6306.80	326.

MAIZELAND

35.10	6.68	6306.68	.00	.00	6307.61	.93	1.06	.00	6306.80
1450.	0.	1450.	0.	0.	187.	0.	99.	26.	6306.80
.42	.00	7.74	.00	.000	.013	.000	.000	6300.00	1280.00
.000613	70.	70.	70.	3	0	4	.00	28.00	1308.00

CDHV= .100 CEHV= .300

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

*SECNO 36.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

36.00	5.13	6313.13	6313.13	.00	6315.18	2.05	.58	.34	6318.00
1450.	0.	1450.	0.	0.	126.	0.	101.	27.	6316.00
.43	.00	11.49	.00	.000	.016	.000	.000	6308.00	1021.17
.002741	516.	516.	516.	20	15	0	.00	31.24	1052.41

*SECNO 37.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

37.00	5.77	6320.77	6320.77	.00	6323.04	2.27	1.50	.07	6324.00
1450.	0.	1450.	0.	0.	120.	0.	102.	27.	6324.00
.45	.00	12.09	.00	.000	.016	.000	.000	6315.00	1065.23
.002830	540.	540.	540.	20	8	0	.00	26.55	1091.77

*SECNO 38.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

38.00	5.76	6326.76	6326.76	.00	6329.04	2.28	1.38	.00	6330.00
1450.	0.	1450.	0.	0.	120.	0.	104.	27.	6330.00
.46	.00	12.11	.00	.000	.016	.000	.000	6321.00	1061.24
.002846	486.	486.	486.	20	5	0	.00	26.53	1087.76

*SECNO 39.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

39.00	4.73	6337.73	6337.73	.00	6339.77	2.04	1.40	.02	6342.00
1450.	0.	1450.	0.	0.	127.	0.	105.	28.	6342.00
.47	.00	11.46	.00	.000	.016	.000	.000	6333.00	1066.27
.002782	498.	498.	498.	20	15	0	.00	31.47	1097.73

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

*SECNO 40.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

40.00	3.99	6345.99	6345.99	.00	6347.60	1.61	.97	.04	6348.00
1450.	0.	1450.	0.	0.	143.	0.	106.	28.	6348.00
.48	.00	10.17	.00	.000	.016	.000	.000	6342.00	1095.01
.002709	352.	352.	352.	20	15	0	.00	44.96	1139.97

CCHV= .300 CEHV= .500

*SECNO 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	4.48	6358.48	6358.48	.00	6360.74	2.26	1.32	.33	6368.00
810.	0.	810.	0.	0.	67.	0.	107.	28.	6366.00
.49	.00	12.06	.00	.000	.016	.000	.000	6354.00	1285.00
.004261	430.	420.	410.	20	8	0	.00	15.00	1300.00

SPECIAL BRIDGE

SB	XK	XKOR	COFG	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	15.00	.00	105.00	.00	6356.00	6354.00

*SECNO 41.100

6070,LOW FLOW BY NORMAL BRIDGE

EGPRS= .000 EGLWC= 6362.736 ELLC= 6365.000 PCWSE= 6358.479 ELTRD= 6366.000

3370 NORMAL BRIDGE, NRD= 8 MIN ELTRD= 6366.00 MAX ELLC= 6365.00

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

SOUTH CAREFREE AVE.

41.10	4.49	6360.49	6360.49	.00	6362.74	2.25	.43	.00	6366.00
810.	0.	810.	0.	0.	67.	0.	107.	28.	6366.00
.49	.00	12.04	.00	.000	.016	.000	.000	6356.00	1285.00
.004244	100.	100.	100.	20	12	0	.00	15.00	1300.00

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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	CDRAR	TOPWID	ENDST

CCHV= .100 CEHV= .300

*SECNO 42.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

42.00	2.47	6370.47	6370.47	.00	6371.18	.72	1.64	.15	6372.00
810.	6.	804.	0.	6.	118.	0.	108.	29.	6376.00
.51	1.03	6.82	.00	.030	.016	.000	.000	6368.00	987.09
.003025	460.	460.	460.	20	11	0	.00	101.25	1235.73

*SECNO 43.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

43.00	3.58	6379.58	6379.58	.00	6380.77	1.18	1.58	.14	6382.00
810.	0.	810.	0.	0.	93.	0.	110.	30.	6382.00
.53	.00	8.73	.00	.000	.016	.000	.000	6376.00	1272.84
.003032	522.	522.	522.	20	14	0	.00	40.33	1313.16

CCHV= .100 CEHV= .300

*SECNO 44.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

44.00	3.27	6389.27	6389.27	.00	6390.21	.94	2.35	.02	6390.00
700.	0.	700.	0.	0.	90.	0.	111.	30.	6390.00
.54	.00	7.79	.00	.000	.025	.000	.000	6386.00	1379.46
.007742	530.	530.	530.	20	11	0	.00	48.72	1428.18

*SECNO 45.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

45.00	2.38	6400.38	6400.38	.00	6401.48	1.10	4.16	.05	6402.00
700.	0.	700.	0.	0.	83.	0.	112.	31.	6402.00
.56	.00	8.40	.00	.000	.025	.000	.000	6398.00	1466.43
.007433	548.	548.	548.	20	15	0	.00	37.95	1504.38

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

*SECNO 46.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

46.00	2.54	6412.54	6412.54	.00	6413.68	1.14	3.90	.01	6414.00
700.	0.	700.	0.	0.	82.	0.	113.	31.	6416.00
.58	.00	8.55	.00	.000	.025	.000	.000	6410.00	1066.19
.007409	526.	526.	526.	20	8	0	.00	36.47	1102.66

*SECNO 47.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

47.00	2.54	6424.54	6424.54	.00	6425.61	1.07	3.64	.01	6426.00
700.	0.	700.	0.	0.	84.	0.	114.	32.	6426.00
.60	.00	8.30	.00	.000	.025	.000	.000	6422.00	1069.32
.007437	490.	490.	490.	20	5	0	.00	39.75	1109.07

DCHV= .300 CEHV= .500

*SECNO 48.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

48.00	4.06	6434.96	6434.96	.00	6437.01	2.06	1.63	.49	6442.00
700.	0.	700.	0.	0.	61.	0.	115.	32.	6442.00
.61	.00	11.51	.00	.000	.013	.000	.000	6430.90	1130.00
.002788	430.	380.	390.	20	14	0	.00	15.00	1145.00

SPECIAL BRIDGE

SB	XK	XKOR	COFB	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	15.00	.00	105.00	.00	6431.90	6430.90

*SECNO 48.100

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	GLOB	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

6070,LOW FLOW BY NORMAL BRIDGE

EBPRS= .000 E6LWC= 6438.011 ELLC= 6438.900 PCWSE= 6434.956 ELTRD= 6443.000

3370 NORMAL BRIDGE, NRD= 7 MIN ELTRD= 6443.00 MAX ELLC= 6438.90

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

ORD BLANCO

48.10	4.06	6435.96	6435.96	.00	6438.01	2.06	.22	.00	6443.00
700.	0.	700.	0.	0.	61.	0.	115.	32.	6443.00
.61	.00	11.51	.00	.000	.013	.000	.000	6431.90	1130.00
.002787	80.	80.	80.	20	15	0	.00	15.00	1145.00

CCHV= .100 CEHV= .300

*SECNO 49.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

49.00	5.78	6449.78	6449.78	.00	6451.06	1.27	2.18	.08	6450.00
700.	0.	700.	0.	0.	77.	0.	115.	32.	6450.00
.62	.00	9.06	.00	.000	.025	.000	.000	6444.00	1211.29
.007437	508.	508.	508.	20	11	0	.00	30.35	1241.64

*SECNO 50.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

50.00	5.01	6465.01	6465.01	.00	6466.13	1.12	3.81	.02	6466.00
700.	0.	700.	0.	0.	83.	0.	116.	33.	6466.00
.64	.00	8.48	.00	.000	.025	.000	.000	6460.00	1025.97
.007688	504.	504.	504.	20	15	0	.00	38.16	1064.14

*SECNO 51.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

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

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

51.00	5.19	6481.19	6481.19	.00	6482.27	1.08	3.81	.00	6484.00
700.	0.	700.	0.	0.	84.	0.	117.	33.	6482.00
.66	.00	8.34	.00	.000	.025	.000	.000	6476.00	1030.88
.007943	488.	488.	488.	20	8	0	.00	40.67	1071.56

*SECNO 52.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

52.00	4.99	6504.99	6504.99	.00	6506.08	1.09	3.92	.00	6506.00
700.	0.	700.	0.	0.	83.	0.	118.	34.	6506.00
.67	.00	8.39	.00	.000	.025	.000	.000	6500.00	1075.04
.007857	496.	496.	496.	20	11	0	.00	39.89	1114.93

*SECNO 53.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

53.00	5.64	6529.64	6529.64	.00	6530.49	.85	4.11	.02	6530.00
700.	0.	700.	0.	0.	94.	0.	119.	34.	6530.00
.69	.00	7.42	.00	.000	.025	.000	.000	6524.00	1097.23
.008086	516.	516.	516.	20	8	0	.00	55.69	1152.92

*SECNO 54.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

54.00	4.54	6550.54	6550.54	.00	6551.27	.73	3.31	.01	6550.00
700.	5.	675.	21.	3.	97.	14.	121.	35.	6550.00
.71	1.52	6.96	1.52	.030	.025	.030	.000	6546.00	1030.65
.005414	506.	506.	506.	20	15	0	.00	107.89	1194.00

THIS RUN EXECUTED 9/13/96 12: 0:51

HEC2 RELEASE DATED SEP 88 UPDATED APR 1989

ERROR CORR - 01,02

MODIFICATION -

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

SUBCRITICAL

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	48.000	.00	.00	.00	6118.00	3198.00	6123.50	.00	6123.65	4.65	3.13	1021.32	1482.34
*	2.000	500.00	.00	.00	6121.30	3200.00	6127.49	6127.49	6129.88	58.42	12.40	258.07	418.66
*	3.000	500.00	.00	.00	6123.60	3200.00	6130.67	6130.67	6133.15	57.04	12.62	254.32	423.70
*	4.000	500.00	.00	.00	6127.00	3200.00	6133.79	.00	6135.10	25.58	9.19	348.21	632.74
*	5.000	500.00	.00	.00	6132.00	3200.00	6138.33	6138.33	6140.94	60.74	12.97	246.70	410.60
	6.000	680.00	.00	.00	6138.00	3200.00	6142.98	.00	6144.67	47.27	10.42	307.04	465.43
*	7.000	65.00	.00	.00	6144.00	3200.00	6150.02	6150.02	6153.06	19.74	13.99	228.76	720.31
*	7.100	85.00	6158.00	6154.00	6144.00	3200.00	6151.83	.00	6153.63	9.01	10.75	297.62	1065.96
*	8.000	500.00	.00	.00	6146.20	3230.00	6152.49	.00	6154.61	49.18	11.67	276.76	460.61
	9.000	500.00	.00	.00	6148.00	3230.00	6155.02	.00	6156.75	36.46	10.56	305.74	534.94
*	10.000	480.00	.00	.00	6154.00	3230.00	6158.92	6158.92	6161.40	68.14	12.64	255.58	391.31
*	10.100	210.00	6172.00	6168.00	6162.00	3230.00	6168.47	.00	6169.03	10.31	6.02	536.87	1005.91
*	11.000	500.00	.00	.00	6166.00	3060.00	6171.51	6171.51	6173.31	62.95	10.76	284.45	385.66
	12.000	500.00	.00	.00	6167.50	3060.00	6174.16	.00	6176.17	50.18	11.38	269.95	431.97
	13.000	450.00	.00	.00	6171.00	3060.00	6176.43	.00	6178.53	53.51	11.62	263.33	418.30
*	14.000	420.00	.00	.00	6173.70	3060.00	6179.12	.00	6180.13	25.46	8.07	379.01	606.42
*	15.000	380.00	.00	.00	6175.70	3230.00	6182.82	6182.82	6185.78	64.73	13.80	234.04	401.47

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10*KS	VCH	AREA	.01K
*	16.000	375.00	.00	.00	6188.00	3230.00	6192.95	6192.95	6195.44	18.43	12.67	254.86	752.48
*	16.100	50.00	6195.00	6192.40	6188.00	3230.00	6195.09	.00	6196.30	6.05	8.84	367.90	1313.16
*	17.000	460.00	.00	.00	6192.00	3230.00	6196.65	6196.65	6198.31	50.59	10.37	325.22	454.10
	18.000	440.00	.00	.00	6194.00	3230.00	6198.89	6198.29	6200.18	35.16	9.20	374.81	544.71
*	19.000	360.00	.00	.00	6196.00	3230.00	6200.70	6200.70	6202.21	41.97	9.94	356.62	498.59
*	20.000	320.00	.00	.00	6198.00	3230.00	6202.82	6202.82	6204.11	35.92	9.36	405.09	538.93
*	21.000	400.00	.00	.00	6201.50	2320.00	6206.03	6206.03	6208.32	19.54	12.15	190.99	524.78
*	21.100	40.00	6208.70	6207.70	6201.50	2320.00	6208.15	.00	6209.21	5.96	8.26	283.50	950.41
*	22.000	400.00	.00	.00	6205.00	2320.00	6208.80	6208.80	6210.54	63.50	10.57	219.42	291.15
	23.000	670.00	.00	.00	6208.00	2160.00	6212.81	.00	6213.97	40.45	8.65	249.83	339.63
*	24.000	460.00	.00	.00	6221.80	2160.00	6225.46	6225.46	6227.31	19.12	10.91	197.91	494.04
*	24.100	50.00	6226.00	6226.10	6222.50	2160.00	6226.84	.00	6228.15	11.15	9.19	242.95	646.99
*	25.000	342.00	.00	.00	6224.00	2160.00	6229.38	6229.38	6231.33	60.31	11.44	197.28	278.13
	26.000	450.00	.00	.00	6226.00	2160.00	6232.29	.00	6233.66	42.87	9.40	229.70	329.88
*	27.000	460.00	.00	.00	6234.00	2160.00	6240.58	6240.58	6242.73	62.65	11.77	183.58	272.90
*	28.000	468.00	.00	.00	6240.00	2160.00	6246.79	6246.79	6248.97	63.18	11.86	182.06	271.75
*	29.000	338.00	.00	.00	6244.00	2160.00	6251.07	6251.07	6253.26	63.41	11.87	182.03	271.26
*	30.000	390.00	.00	.00	6259.00	2160.00	6263.89	6263.89	6266.36	20.38	12.62	171.19	478.43
*	30.100	80.00	6267.50	6265.70	6260.00	2160.00	6265.54	.00	6267.46	13.90	11.12	194.24	579.26
*	31.000	495.00	.00	.00	6266.00	1680.00	6269.87	6269.87	6271.23	69.19	9.36	179.47	201.97
*	32.000	624.00	.00	.00	6272.00	1680.00	6275.15	6275.15	6276.63	67.91	9.75	172.32	203.87
*	33.000	504.00	.00	.00	6278.00	1680.00	6283.02	6283.02	6284.50	66.74	9.79	171.56	205.65
*	34.000	500.00	.00	.00	6284.00	1680.00	6288.01	6288.01	6289.56	66.21	10.02	167.65	206.47
*	35.000	450.00	.00	.00	6300.00	1450.00	6304.36	6304.36	6306.55	21.77	11.88	122.05	310.74
*	35.100	70.00	6306.80	6305.60	6300.00	1450.00	6306.68	.00	6307.61	6.13	7.74	187.24	585.59
*	36.000	516.00	.00	.00	6308.00	1450.00	6313.13	6313.13	6315.18	27.41	11.49	126.21	276.97

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10*KS	VCH	AREA	.01K
*	37.000	540.00	.00	.00	6315.00	1450.00	6320.77	6320.77	6323.04	28.30	12.09	119.92	272.55
*	38.000	486.00	.00	.00	6321.00	1450.00	6326.76	6326.76	6329.04	28.46	12.11	119.69	271.82
*	39.000	498.00	.00	.00	6333.00	1450.00	6337.73	6337.73	6339.77	27.82	11.46	126.57	274.92
*	40.000	352.00	.00	.00	6342.00	1450.00	6343.99	6345.99	6347.60	27.09	10.17	142.56	278.58
*	41.000	420.00	.00	.00	6354.00	810.00	6358.48	6358.48	6360.74	42.61	12.06	67.19	124.09
*	41.100	100.00	6366.00	6365.00	6356.00	810.00	6360.49	6360.49	6362.74	42.44	12.04	67.28	124.34
*	42.000	460.00	.00	.00	6368.00	810.00	6370.47	6370.47	6371.18	30.25	6.82	123.77	147.28
*	43.000	522.00	.00	.00	6376.00	810.00	6379.58	6379.58	6380.77	30.32	8.73	92.79	147.10
*	44.000	530.00	.00	.00	6386.00	700.00	6389.27	6389.27	6390.21	77.42	7.79	89.90	79.56
*	45.000	548.00	.00	.00	6398.00	700.00	6400.38	6400.38	6401.48	74.33	8.40	83.29	81.19
*	46.000	526.00	.00	.00	6410.00	700.00	6412.54	6412.54	6413.68	74.09	8.55	81.86	81.33
*	47.000	490.00	.00	.00	6422.00	700.00	6424.54	6424.54	6425.61	74.37	8.30	84.29	81.17
*	48.000	380.00	.00	.00	6430.90	700.00	6434.96	6434.96	6437.01	27.88	11.51	60.83	132.58
*	48.100	80.00	6443.00	6438.90	6431.90	700.00	6435.96	6435.96	6438.01	27.87	11.51	60.84	132.60
*	49.000	508.00	.00	.00	6444.00	700.00	6449.78	6449.78	6451.06	74.37	9.06	77.27	81.17
*	50.000	504.00	.00	.00	6460.00	700.00	6465.01	6465.01	6466.13	76.88	8.48	82.52	79.83
*	51.000	488.00	.00	.00	6476.00	700.00	6481.19	6481.19	6482.27	79.43	8.34	83.91	78.54
*	52.000	496.00	.00	.00	6500.00	700.00	6504.99	6504.99	6506.08	78.57	8.39	83.43	78.97
*	53.000	516.00	.00	.00	6524.00	700.00	6529.64	6529.64	6530.49	80.86	7.42	94.38	77.84
*	54.000	506.00	.00	.00	6546.00	700.00	6550.54	6550.54	6551.27	54.14	6.96	113.59	95.14

SUBCRITICAL

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	48.000	3198.00	6123.50	.00	.00	.00	266.21	.00
*	2.000	3200.00	6127.49	.00	3.99	.00	54.38	500.00
*	3.000	3200.00	6130.67	.00	3.18	.00	53.48	500.00
*	4.000	3200.00	6133.79	.00	3.11	.00	60.62	500.00
*	5.000	3200.00	6138.33	.00	4.55	.00	47.92	500.00
	6.000	3200.00	6142.98	.00	4.65	.00	73.30	680.00
*	7.000	3200.00	6150.02	.00	7.04	.00	38.00	65.00
*	7.100	3200.00	6151.83	.00	1.81	.00	38.00	85.00
*	8.000	3230.00	6152.49	.00	.66	.00	55.93	500.00
	9.000	3230.00	6155.02	.00	2.53	.00	57.07	500.00
*	10.000	3230.00	6158.92	.00	3.89	.00	52.00	480.00
*	10.100	3230.00	6168.47	.00	9.55	.00	83.00	210.00
*	11.000	3060.00	6171.51	.00	3.04	.00	80.79	500.00
	12.000	3060.00	6174.16	.00	2.65	.00	57.78	500.00
	13.000	3060.00	6176.43	.00	2.27	.00	56.91	450.00
*	14.000	3060.00	6179.12	.00	2.69	.00	83.05	420.00
*	15.000	3230.00	6182.82	.00	3.70	.00	40.00	380.00
*	16.000	3230.00	6192.95	.00	10.13	.00	51.50	375.00
*	16.100	3230.00	6195.09	.00	2.14	.00	109.65	50.00
*	17.000	3230.00	6196.65	.00	1.56	.00	129.86	460.00
	18.000	3230.00	6198.89	.00	2.24	.00	145.61	440.00
*	19.000	3230.00	6200.70	.00	1.81	.00	182.59	360.00
*	20.000	3230.00	6202.82	.00	2.11	.00	215.54	320.00
*	21.000	2320.00	6206.03	.00	3.21	.00	42.20	400.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	21.100	2320.00	6208.15	.00	2.13	.00	75.62	40.00
*	22.000	2320.00	6208.80	.00	.65	.00	63.51	400.00
	23.000	2160.00	6212.81	.00	4.01	.00	68.22	670.00
*	24.000	2160.00	6225.46	.00	12.65	.00	54.00	460.00
*	24.100	2160.00	6226.84	.00	1.37	.00	129.56	50.00
*	25.000	2160.00	6229.38	.00	2.54	.00	51.94	342.00
	26.000	2160.00	6232.29	.00	2.91	.00	59.34	450.00
*	27.000	2160.00	6240.58	.00	8.29	.00	43.23	460.00
*	28.000	2160.00	6246.79	.00	6.21	.00	42.32	468.00
*	29.000	2160.00	6251.07	.00	4.28	.00	42.43	338.00
*	30.000	2160.00	6263.89	.00	12.82	.00	35.00	390.00
*	30.100	2160.00	6265.54	.00	1.65	.00	35.00	80.00
*	31.000	1680.00	6269.87	.00	4.33	.00	67.50	495.00
*	32.000	1680.00	6275.15	.00	5.27	.00	59.45	624.00
*	33.000	1680.00	6283.02	.00	7.87	.00	58.81	504.00
*	34.000	1680.00	6288.01	.00	4.99	.00	54.69	500.00
*	35.000	1450.00	6304.36	.00	16.35	.00	28.00	450.00
*	35.100	1450.00	6306.68	.00	2.32	.00	28.00	70.00
*	36.000	1450.00	6313.13	.00	6.45	.00	31.24	516.00
*	37.000	1450.00	6320.77	.00	7.65	.00	26.55	540.00
*	38.000	1450.00	6326.76	.00	5.99	.00	26.53	486.00
*	39.000	1450.00	6337.73	.00	10.97	.00	31.47	498.00
*	40.000	1450.00	6345.99	.00	8.26	.00	44.96	352.00
*	41.000	810.00	6358.48	.00	12.49	.00	15.00	420.00
*	41.100	810.00	6360.49	.00	2.01	.00	15.00	100.00
*	42.000	810.00	6370.47	.00	9.98	.00	101.25	460.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	43.000	810.00	6379.58	.00	9.12	.00	40.33	522.00
*	44.000	700.00	6389.27	.00	9.69	.00	48.72	530.00
*	45.000	700.00	6400.38	.00	11.11	.00	37.95	548.00
*	46.000	700.00	6412.54	.00	12.16	.00	36.47	526.00
*	47.000	700.00	6424.54	.00	12.00	.00	39.75	490.00
*	48.000	700.00	6434.96	.00	10.42	.00	15.00	380.00
*	48.100	700.00	6435.96	.00	1.00	.00	15.00	80.00
*	49.000	700.00	6449.78	.00	13.83	.00	30.35	508.00
*	50.000	700.00	6465.01	.00	15.23	.00	38.16	504.00
*	51.000	700.00	6481.19	.00	16.17	.00	40.67	488.00
*	52.000	700.00	6504.99	.00	23.80	.00	39.89	496.00
*	53.000	700.00	6529.64	.00	24.65	.00	55.69	516.00
*	54.000	700.00	6550.54	.00	20.90	.00	107.89	506.00

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THIS RUN EXECUTED 9/13/96 12:18:25

HEC2 RELEASE DATED SEP 88 UPDATED APR 1989

ERROR CORR - 01,02

MODIFICATION -

T1 WEST FORK SAND CREEK, SAND CREEK DBPS, 09-04-90
T2 100-YEAR filename wfhec.dat
T3 SUBCRITICAL

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10	2	0	0	0	0	0	0	6125.50	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	-1							

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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

*PROF 1

CCHV= .100 CEHV= .300

*SECNO 48.000

48.00	7.50	6125.50	.00	6125.50	6125.82	.32	.00	.00	6130.00
7150.	0.	7150.	0.	0.	1582.	0.	0.	0.	6140.00
.00	.00	4.52	.00	.000	.025	.000	.000	6118.00	1274.38
.000629	0.	0.	0.	0	0	0	.00	297.63	1572.00

*SECNO 2.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

2.00	9.47	6130.77	6130.77	.00	6134.23	3.45	.68	.94	6140.00
6840.	0.	6836.	4.	0.	458.	2.	12.	2.	6130.00
.01	.00	14.92	1.88	.000	.025	.030	.000	6121.30	1088.75
.005188	340.	500.	880.	20	11	0	.00	71.63	1160.38

*SECNO 3.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3.00	10.60	6134.20	6134.20	.00	6137.49	3.29	2.44	.02	6140.00
6840.	0.	6642.	198.	0.	451.	36.	17.	3.	6130.00
.02	.00	14.74	5.42	.000	.025	.030	.000	6123.60	1068.96
.004618	490.	500.	490.	3	8	0	.00	78.38	1147.34

*SECNO 4.000

3301 HV CHANGED MORE THAN HVINS

4.00	10.12	6137.12	.00	.00	6139.39	2.27	1.80	.10	6138.00
6840.	0.	6840.	0.	0.	565.	0.	23.	4.	6150.00
.03	.00	12.10	.00	.000	.025	.000	.000	6127.00	1108.96
.002877	490.	500.	510.	3	0	0	.00	69.76	1178.72

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

*SECNO 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	9.87	6141.87	6141.87	.00	6145.73	3.85	1.95	.47	6148.00
6840.	0.	6840.	0.	0.	434.	0.	29.	5.	6146.00
.04	.00	15.75	.00	.000	.025	.000	.000	6132.00	1188.21
.005620	520.	500.	350.	20	5	0	.00	57.95	1246.16

*SECNO 6.000

3301 HV CHANGED MORE THAN HVINS

6.00	8.66	6146.66	.00	.00	6148.63	1.96	2.71	.19	6158.00
6840.	0.	6840.	0.	0.	608.	0.	37.	6.	6156.00
.06	.00	11.25	.00	.000	.025	.000	.000	6138.00	1053.55
.002974	460.	680.	620.	3	0	0	.00	90.50	1144.05

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	10.02	6154.02	6154.02	.00	6159.03	5.01	.16	1.53	6158.00
6840.	0.	6840.	0.	0.	381.	0.	38.	6.	6158.00
.06	.00	17.97	.00	.000	.013	.000	.000	6144.00	1210.00
.002013	65.	65.	70.	20	8	0	.00	38.00	1248.00

SPECIAL BRIDGE

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

5227 DOWNSTREAM ELEV IS 6152.37 , NOT 6154.02 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFG	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	38.00	2.00	380.00	.00	6144.00	6144.00

*SECNO 7.100

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6161.56	6159.98	.00	878.	5978.	380.	360.	6154.00	6158.00	340.

WOOTON ROAD

7.10	12.62	6156.62	.00	.00	6159.78	3.16	.75	.00	6158.00
6840.	0.	6840.	0.	0.	480.	0.	39.	6.	6158.00
.06	.00	14.26	.00	.000	.013	.000	.000	6144.00	1210.00
.001044	85.	85.	85.	5	0	0	.00	38.00	1248.00

CCHV= .100 CEHV= .300

*SECNO 8.000

3301 HV CHANGED MORE THAN HVINS

8.00	13.04	6159.24	.00	.00	6160.57	1.33	.61	.18	6160.00
6860.	0.	6860.	0.	0.	740.	0.	46.	7.	6164.00
.07	.00	9.27	.00	.000	.025	.000	.000	6146.20	1098.27
.001423	500.	500.	460.	4	0	0	.00	81.55	1179.83

*SECNO 9.000

3301 HV CHANGED MORE THAN HVINS

9.00	11.72	6159.72	.00	.00	6161.64	1.92	.90	.18	6160.00
6860.	0.	6860.	0.	0.	616.	0.	53.	8.	6164.00
.09	.00	11.13	.00	.000	.025	.000	.000	6148.00	1155.46
.002340	500.	500.	500.	2	0	0	.00	75.18	1230.64

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

CCHV= .300 CEHV= .500

*SECNO 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	8.12	6162.12	6162.12	.00	6166.22	4.10	1.76	1.09	6170.00
6860.	0.	6860.	0.	0.	422.	0.	59.	8.	6170.00
.09	.00	16.25	.00	.000	.025	.000	.000	6154.00	1307.00
.006584	500.	490.	455.	20	19	0	.00	52.00	1359.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6160.75 , NOT 6162.12 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	52.00	3.00	312.00	.00	6162.00	6154.00

*SECNO 10.100

PRESS FLOW BECAUSE EBLWC OF 6176.79 EXCEEDS 1.5 DEPTH

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.99

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EBLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6173.38	6176.79	.00	341.	6525.	312.	294.	6168.00	6172.00	1300.

PLATTE AVENUE (U.S. 24)

10.10	8.99	6170.99	.00	.00	6172.30	1.32	6.09	.00	6172.00
6860.	0.	6860.	0.	0.	745.	0.	62.	9.	6172.00
.10	.00	9.20	.00	.000	.025	.000	.000	6162.00	1307.00
.001667	210.	210.	210.	3	0	4	.00	83.00	1390.00

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

CCHV= .100 CEHV= .300

*SECNO 11.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

11.00	7.97	6173.97	6173.97	.00	6176.50	2.53	1.36	.36	6174.00
6475.	0.	6475.	0.	0.	508.	0.	59.	10.	6176.00
.11	.00	12.76	.00	.000	.025	.000	.000	6166.00	1355.17
.005487	500.	500.	500.	20	11	0	.00	100.37	1455.54

*SECNO 12.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

12.00	9.53	6177.03	6177.03	.00	6179.63	2.60	2.75	.02	6180.00
6475.	0.	6475.	0.	0.	501.	0.	75.	11.	6180.00
.12	.00	12.94	.00	.000	.025	.000	.000	6167.50	1005.95
.005516	490.	500.	510.	2	8	0	.00	96.16	1102.11

*SECNO 13.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

13.00	8.27	6179.27	6179.27	.00	6182.68	3.41	2.48	.24	6196.00
6475.	0.	6475.	0.	0.	437.	0.	80.	12.	6180.00
.13	.00	14.81	.00	.000	.025	.000	.000	6171.00	1198.46
.005484	445.	450.	460.	3	8	0	.00	65.73	1264.19

*SECNO 14.000

3301 HV CHANGED MORE THAN HVINS

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

14.00	9.07	6182.77	.00	.00	6184.09	1.31	1.20	.21	6200.00
6475.	0.	6471.	4.	0.	703.	4.	85.	12.	6182.00
.14	.00	9.20	.94	.000	.025	.035	.000	6173.70	1135.89
.001750	425.	420.	415.	3	0	0	.00	104.89	1240.79

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLDSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	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	11.09	6186.79	6186.79	.00	6191.25	4.45	1.15	.94	6196.00
6860.	0.	6860.	0.	0.	405.	0.	90.	13.	6194.00
.15	.00	16.93	.00	.000	.025	.000	.000	6175.70	1177.27
.006129	405.	380.	375.	20	11	0	.00	46.16	1223.43

CCHV= .300 CEHV= 5.000

*SECNO 16.000

3280 CROSS SECTION 16.00 EXTENDED 1.01 FEET

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

16.00	9.01	6197.01	6197.01	.00	6197.89	.88	.44	1.07	6195.00
6860.	2182.	4302.	376.	814.	464.	141.	98.	16.	6195.00
.16	2.68	9.27	2.67	.016	.013	.016	.000	6188.00	1000.00
.000484	375.	375.	375.	10	14	0	.00	685.00	1685.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6194.85 , NOT 6197.01 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	51.50	2.70	200.00	.00	6188.00	6188.00

*SECNO 16.100

3280 CROSS SECTION 16.10 EXTENDED 2.09 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.68

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

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6224.41	6199.51	.00	5337.	1537.	200.	215.	6192.40	6195.00	685.

GALLEY ROAD									
16.10	10.09	6198.09	.00	.00	6198.38	.29	.50	.00	6195.00
6860.	3212.	3099.	549.	1401.	520.	243.	100.	17.	6195.00
.17	2.29	5.96	2.26	.016	.013	.016	.000	6188.00	1000.00
.000172	50.	50.	50.	2	0	5	.00	685.00	1685.00

CCHV= .100 CEHV= .100
 #SECNO 17.000

3301 HV CHANGED MORE THAN HVINS

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

17.00	7.16	6199.16	6199.16	.00	6200.49	1.33	.20	.10	6196.00
6860.	1544.	5306.	10.	412.	515.	6.	116.	22.	6198.00
.18	3.75	10.31	1.79	.030	.025	.030	.000	6192.00	755.98
.002708	420.	460.	470.	20	16	0	.00	366.92	1122.89

#SECNO 18.000

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

18.00	7.15	6201.15	6201.15	.00	6202.44	1.29	1.15	.00	6198.00
6860.	1457.	5391.	11.	423.	533.	7.	125.	26.	6200.00
.20	3.44	10.12	1.71	.030	.025	.030	.000	6194.00	730.39
.002515	440.	440.	440.	20	5	0	.00	421.12	1151.51

#SECNO 19.000

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

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SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	GCH	GRGB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VRGB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLGBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

19.00	6.75	6202.75	6202.75	.00	6204.04	1.29	.95	.00	6200.00
6860.	1783.	4941.	136.	443.	472.	43.	133.	29.	6200.00
.21	4.03	10.46	3.20	.030	.025	.030	.000	6196.00	919.33
.002750	360.	360.	360.	20	12	0	.00	341.62	1260.95

*SECNO 20.000

3280 CROSS SECTION 20.00 EXTENDED .62 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

20.00	6.62	6204.62	6204.62	.00	6205.93	1.31	.90	.00	6202.00
6860.	1887.	4881.	92.	444.	463.	27.	140.	32.	6202.00
.22	4.25	10.55	3.39	.030	.025	.030	.000	6198.00	900.00
.002878	315.	320.	325.	20	8	0	.00	339.30	1239.30

CCHV= .300 CEHV= .500

*SECNO 21.000

3280 CROSS SECTION 21.00 EXTENDED .32 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

21.00	8.82	6210.32	6210.32	.00	6211.24	.92	.45	.12	6208.00
4760.	507.	3360.	893.	205.	372.	361.	148.	35.	6208.00
.23	2.47	9.02	2.47	.016	.013	.016	.000	6201.50	1000.00
.000489	370.	400.	410.	20	16	0	.00	470.00	1470.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6207.25 , NOT 6210.32 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	CGFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	42.20	4.20	176.00	.00	6202.70	6201.50

*SECNO 21.100

3280 CROSS SECTION 21.10 EXTENDED 1.39 FEET

3301 HV CHANGED MORE THAN HVINS

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

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.64

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6227.36	6214.14	.00	3445.	1357.	176.	190.	6207.70	6208.70	470.

MURRAY									
21.10	9.89	6211.39	.00	.00	6211.71	.32	.46	.00	6208.00
4760.	826.	2477.	1457.	371.	418.	653.	150.	36.	6208.00
.24	2.23	5.93	2.23	.016	.013	.016	.000	6201.50	1000.00
.000181	40.	40.	40.	2	0	4	.00	470.00	1470.00

CCHV= .100 CEHV= .300

*SECNO 22.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

22.00	6.01	6211.01	6211.01	.00	6213.62	2.61	.21	.69	6212.00
4760.	0.	4751.	9.	0.	366.	4.	158.	38.	6210.00
.25	.00	12.97	2.30	.000	.025	.030	.000	6205.00	1106.42
.005433	420.	400.	385.	20	14	0	.00	76.15	1182.56

*SECNO 23.000

3301 HV CHANGED MORE THAN HVINS

23.00	6.88	6214.88	.00	.00	6216.87	1.98	3.19	.06	6218.00
4460.	0.	4460.	0.	0.	395.	0.	164.	39.	6218.00
.26	.00	11.30	.00	.000	.025	.000	.000	6208.00	1004.67
.004169	690.	670.	650.	2	0	0	.00	71.33	1076.00

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

CCHV= .300 CEHV= .500

*SECNO 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	6.22	6228.02	6228.02	.00	6228.96	.94	.66	.31	6227.00
4460.	1342.	3064.	54.	402.	336.	34.	170.	42.	6227.00
.28	3.34	9.13	1.59	.016	.013	.016	.000	6221.80	839.55
.000706	480.	460.	440.	20	12	0	.00	396.25	1235.79

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6226.62 , NOT 6228.02 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	54.00	4.00	150.00	.00	6222.60	6221.80

*SECNO 24.100

PRESS FLOW BECAUSE EGLWC OF 6231.66 EXCEEDS 1.5 DEPTH

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.27

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

ESPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6248.61	6231.66	.00	2920.	1582.	150.	175.	6226.10	6226.00	325.

PALMER PARK BLVD.

24.10	7.91	6230.41	.00	.00	6230.61	.20	1.65	.00	6227.70
4460.	2096.	2020.	344.	911.	427.	223.	171.	42.	6227.70
.28	2.30	4.73	1.55	.016	.013	.016	.000	6222.50	788.72
.000137	50.	50.	50.	2	0	4	.00	536.03	1324.75

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

CCHV= .100 CEHV= .300

*SECNO 25.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

25.00	8.51	6232.51	6232.51	.00	6234.02	1.52	.12	.40	6224.00
4460.	926.	3518.	15.	236.	321.	10.	180.	45.	6230.00
.29	3.93	10.95	1.48	.030	.025	.030	.000	6224.00	999.77
.002616	342.	342.	342.	20	8	0	.00	229.57	1229.34

*SECNO 26.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

26.00	8.19	6234.19	6234.19	.00	6236.66	2.48	1.66	.29	6236.00
4460.	0.	4460.	0.	0.	353.	0.	184.	47.	6242.00
.30	.00	12.63	.00	.000	.025	.000	.000	6226.00	1203.63
.005584	450.	450.	450.	20	8	0	.00	71.16	1274.79

*SECNO 27.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

27.00	9.39	6243.39	6243.39	.00	6246.14	2.74	2.55	.08	6242.00
4460.	5.	4455.	0.	2.	335.	0.	188.	48.	6246.00
.31	2.68	13.30	.00	.030	.025	.000	.000	6234.00	1079.21
.005510	460.	460.	460.	20	8	0	.00	62.97	1142.18

*SECNO 28.000

3301 HV CHANGED MORE THAN HVINS

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	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

28.00	10.41	6250.41	6250.41	.00	6251.93	1.52	1.85	.12	6248.00
4460.	566.	3894.	0.	175.	370.	0.	193.	49.	6252.00
.33	3.24	10.52	.00	.030	.025	.000	.000	6240.00	1400.36
.002962	468.	468.	468.	20	8	0	.00	226.46	1626.83

*SECNO 29.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

29.00	10.11	6254.11	6254.11	.00	6256.83	2.72	1.25	.36	6252.00
4460.	65.	4395.	0.	18.	330.	0.	196.	50.	6256.00
.33	3.65	13.33	.00	.030	.025	.000	.000	6244.00	1055.56
.004782	338.	338.	338.	20	8	0	.00	68.66	1124.22

CCHV= .300 CEHV= .500

*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	9.54	6268.54	6268.54	.00	6269.89	1.35	.54	.41	6266.00
4460.	602.	3490.	368.	217.	334.	133.	201.	52.	6266.00
.35	2.77	10.46	2.77	.016	.013	.016	.000	6259.00	1098.75
.000648	380.	390.	400.	20	11	0	.00	310.91	1409.66

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6265.33 , NOT 6268.54 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	35.00	3.00	182.00	.00	6260.00	6259.00

*SECNO 30.100

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

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6282.52	6272.45	.00	2825.	1652.	182.	182.	6265.70	6267.50	420.

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3710 WSEL ASSUMED BASED ON MIN DIFF

CONSTITUTION AVE.

30.10	9.83	6269.83	6269.55	.00	6270.91	1.08	.05	-.05	6267.00
4460.	725.	3292.	443.	271.	344.	166.	202.	53.	6267.00
.35	2.67	9.56	2.67	.016	.013	.016	.000	6260.00	1078.64
.000520	80.	80.	80.	20	5	0	.00	343.30	1421.94

CCHV= .100 CEHV= .300

*SECNO 31.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

31.00	5.59	6271.59	6271.59	.00	6273.63	2.04	.54	.29	6272.00
3450.	0.	3450.	0.	0.	301.	0.	208.	55.	6274.00
.36	.00	11.47	.00	.000	.025	.000	.000	6266.00	1054.83
.005996	495.	495.	495.	20	11	0	.00	74.35	1129.17

*SECNO 32.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

32.00	5.00	6277.00	6277.00	.00	6279.24	2.24	3.74	.06	6282.00
3450.	0.	3450.	0.	0.	287.	0.	213.	56.	6286.00
.38	.00	12.01	.00	.000	.025	.000	.000	6272.00	1031.34
.005983	624.	624.	624.	3	11	0	.00	64.99	1096.33

*SECNO 33.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

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

3720 CRITICAL DEPTH ASSUMED

33.00	6.98	6284.98	6284.98	.00	6286.97	1.99	3.01	.03	6290.00
3450.	0.	3450.	0.	0.	305.	0.	216.	57.	6288.00
.39	.00	11.31	.00	.000	.025	.000	.000	6278.00	1016.74
.005944	504.	504.	504.	20	11	0	.00	77.14	1093.87

#SECNO 34.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

34.00	5.99	6289.99	6289.99	.00	6292.31	2.32	2.94	.10	6296.00
3450.	0.	3450.	0.	0.	282.	0.	219.	58.	6300.00
.40	.00	12.22	.00	.000	.025	.000	.000	6284.00	1018.02
.005803	500.	500.	500.	20	11	0	.00	60.96	1078.98

CCHV= .300 CEHV= .500

#SECNO 35.000

3280 CROSS SECTION 35.00 EXTENDED .47 FEET

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

35.00	8.47	6308.47	6308.47	.00	6309.16	.69	.58	.49	6306.80
2940.	645.	1921.	374.	300.	237.	174.	224.	60.	6306.80
.42	2.15	8.10	2.15	.016	.013	.016	.000	6300.00	1000.00
.000493	450.	450.	450.	20	20	0	.00	472.35	1472.35

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 6305.54 , NOT 6308.47 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFO	RDLN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	28.00	2.50	127.50	.00	6300.60	6300.00

#SECNO 35.100

3280 CROSS SECTION 35.10 EXTENDED 1.14 FEET

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

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.52

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6320.85	6311.12	.00	2136.	805.	128.	128.	6305.60	6306.80	477.

MAIZELAND									
35.10	9.13	6309.13	.00	.00	6309.40	.27	.24	.00	6306.80
2940.	951.	1434.	555.	487.	256.	285.	226.	61.	6306.80
.42	1.96	5.60	1.95	.016	.013	.016	.000	6300.00	1000.00
.000213	70.	70.	70.	2	0	5	.00	475.69	1475.69

CEHV= .100 CEHV= .300

*SECNO 36.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

36.00	9.08	6317.08	6317.08	.00	6318.43	1.35	.21	.32	6318.00
2940.	0.	2600.	340.	0.	263.	214.	235.	66.	6316.00
.44	.00	9.90	1.59	.000	.016	.030	.000	6308.00	1020.00
.001044	516.	516.	516.	20	5	0	.00	265.43	1285.43

*SECNO 37.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

37.00	8.63	6323.63	6323.63	.00	6326.86	3.23	.86	.56	6324.00
2940.	0.	2940.	0.	0.	204.	0.	239.	67.	6324.00
.45	.00	14.41	.00	.000	.016	.000	.000	6315.00	1062.37
.002690	540.	540.	540.	20	11	0	.00	32.26	1094.63

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLSS	BANK ELEV
G	GLOB	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 38.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

38.00	8.61	6329.61	6329.61	.00	6332.86	3.25	1.31	.01	6330.00
2940.	0.	2940.	0.	0.	203.	0.	241.	68.	6330.00
.46	.00	14.46	.00	.000	.016	.000	.000	6321.00	1058.39
.002714	486.	486.	486.	20	5	0	.00	32.22	1090.61

*SECNO 39.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

39.00	7.30	6340.30	6340.30	.00	6343.23	2.93	1.31	.03	6342.00
2940.	0.	2940.	0.	0.	214.	0.	244.	68.	6342.00
.47	.00	13.74	.00	.000	.016	.000	.000	6333.00	1063.70
.002550	498.	498.	498.	20	12	0	.00	36.60	1100.30

*SECNO 40.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

40.00	6.01	6348.01	6348.01	.00	6350.25	2.24	.89	.07	6348.00
2940.	0.	2940.	0.	0.	245.	0.	246.	69.	6348.00
.48	.00	12.01	.02	.000	.016	.000	.000	6342.00	1087.94
.002480	352.	352.	352.	20	15	0	.00	56.24	1144.18

CCHV= .300 CERV= .500

*SECNO 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	7.16	6361.16	6361.16	.00	6364.78	3.62	1.29	.69	6368.00
1640.	0.	1640.	0.	0.	107.	0.	247.	69.	6366.00
.49	.00	15.27	.00	.000	.016	.000	.000	6354.00	1285.00
.004783	430.	420.	410.	20	11	0	.00	15.00	1300.00

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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	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	15.00	.00	105.00	.00	6356.00	6354.00

#SECNO 41.100

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
6366.84	6366.78	.00	118.	1525.	105.	135.	6365.00	6366.00	368.

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3720 CRITICAL DEPTH ASSUMED

SOUTH CAREFREE AVE.

41.10	7.17	6363.17	6363.17	.00	6366.78	3.61	.48	-.48	6366.00
1640.	0.	1640.	0.	0.	108.	0.	247.	69.	6366.00
.49	.00	15.25	.00	.000	.016	.000	.000	6356.00	1285.00
.004769	100.	100.	100.	20	5	0	.00	15.00	1300.00

CEHV= .100 CEHV= .300

#SECNO 42.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

42.00	3.43	6371.43	6371.43	.00	6372.16	.73	1.67	.29	6372.00
1640.	118.	1522.	0.	56.	214.	0.	249.	70.	6376.00
.51	2.12	7.10	.00	.030	.016	.000	.000	6368.00	948.10
.002859	460.	460.	460.	20	14	0	.00	202.83	1243.44

#SECNO 43.000

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	LOSS	BANK ELEV
Q	GLOB	GCH	OROB	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

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

43.00	5.07	6381.07	6381.07	.00	6382.73	1.66	1.45	.28	6382.00
1640.	0.	1640.	0.	0.	158.	0.	252.	72.	6382.00
.52	.00	10.35	.00	.000	.016	.000	.000	6376.00	1269.86
.006691	522.	522.	522.	20	14	0	.00	48.42	1318.28

CCHV= .100 CEHV= .300

*SECNO 44.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

44.00	4.36	6390.36	6390.36	.00	6391.68	1.32	2.06	.03	6390.00
1370.	0.	1368.	1.	0.	148.	1.	254.	72.	6390.00
.54	1.29	9.22	1.30	.030	.025	.030	.000	6386.00	1376.18
.006721	530.	530.	530.	20	15	0	.00	62.91	1439.09

*SECNO 45.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

45.00	3.65	6401.65	6401.65	.00	6403.29	1.64	3.70	.10	6402.00
1370.	0.	1370.	0.	0.	133.	0.	256.	73.	6402.00
.55	.00	10.28	.00	.000	.025	.000	.000	6398.00	1464.53
.006766	548.	548.	548.	20	15	0	.00	41.11	1505.65

*SECNO 46.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

46.00	3.86	6413.86	6413.86	.00	6415.51	1.64	3.53	.00	6414.00
1370.	0.	1370.	0.	0.	133.	0.	257.	73.	6416.00
.57	.00	10.29	.00	.000	.025	.000	.000	6410.00	1064.20
.006654	526.	526.	526.	20	8	0	.00	40.88	1105.09

*SECNO 47.000

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	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

47.00	3.82	6425.82	6425.82	.00	6427.28	1.46	3.28	.02	6426.00
1370.	0.	1370.	0.	0.	141.	0.	259.	74.	6426.00
.58	.00	9.71	.00	.000	.025	.000	.000	6422.00	1062.91
.006748	490.	490.	490.	20	5	0	.00	48.73	1111.64

CDHV= .300 CEHV= .500

*SECNO 48.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

48.00	6.35	6437.25	6437.25	.00	6440.46	3.22	1.66	.88	6442.00
1370.	0.	1370.	0.	0.	95.	0.	260.	74.	6442.00
.59	.00	14.39	.00	.000	.013	.000	.000	6430.90	1130.00
.003055	430.	380.	390.	20	14	0	.00	15.00	1145.00

SPECIAL BRIDGE

SB	XK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	1.56	.00	15.00	.00	105.00	.00	6431.90	6430.90

*SECNO 48.100

6070,LDW FLOW BY NORMAL BRIDGE

EBPRS= 6441.212 EBLWC= 6441.462 ELLC= 6438.900 PCWSE= 6437.247 ELTRD= 6443.000

4575 CRITICAL DEPTH ASSUMED BELOW ELLC OF 6438.900 EBLC= 6442.498 EGC= 6444.928 WSEL= 6443.992

3370 NORMAL BRIDGE, NRD= 7 MIN ELTRD= 6443.00 MAX ELLC= 6438.90

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

ORD BLANCO

48.10	5.92	6437.82	6437.82	.00	6441.52	3.69	.27	.24	6443.00
1370.	0.	1370.	0.	0.	89.	0.	260.	74.	6443.00
.59	.00	15.42	.00	.000	.013	.000	.000	6431.90	1130.00
.003690	80.	80.	80.	20	17	0	.00	15.00	1145.00

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

CCHV= .100 CEHV= .300
 *SECNO 49.000

3301 HV CHANGED MORE THAN HVINS

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

49.00	7.35	6451.35	6451.35	.00	6453.01	1.66	2.26	.20	6450.00
1370.	20.	1332.	18.	7.	127.	6.	261.	75.	6450.00
.60	2.80	10.47	2.80	.030	.025	.030	.000	6444.00	1199.21
.005482	508.	508.	508.	20	11	0	.00	52.22	1251.44

*SECNO 50.000

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

50.00	6.33	6466.33	6466.33	.00	6467.76	1.43	3.07	.02	6466.00
1370.	0.	1368.	2.	0.	142.	1.	263.	75.	6466.00
.62	1.17	9.61	1.22	.030	.025	.030	.000	6460.00	1023.18
.006788	504.	504.	504.	20	15	0	.00	58.39	1081.57

*SECNO 51.000

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

51.00	6.44	6482.44	6482.44	.00	6483.90	1.46	3.31	.01	6484.00
1370.	0.	1370.	0.	0.	141.	0.	265.	76.	6482.00
.63	.00	9.71	1.43	.000	.025	.030	.000	6476.00	1026.00
.006775	488.	488.	488.	20	5	0	.00	49.31	1075.31

*SECNO 52.000

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

52.00	6.28	6506.28	6506.28	.00	6507.74	1.46	3.32	.00	6506.00
1370.	0.	1370.	0.	0.	141.	0.	266.	76.	6506.00
.65	1.06	9.68	.04	.030	.025	.030	.000	6500.00	1071.02
.006616	496.	496.	496.	20	8	0	.00	49.54	1120.56

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

*SECNO 53.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

53.00	6.58	6530.58	6530.58	.00	6531.81	1.23	3.60	.02	6530.00
1370.	2.	1365.	3.	1.	153.	2.	268.	77.	6530.00
.66	1.84	8.93	1.85	.030	.025	.030	.000	6524.00	1086.54
.007370	516.	516.	516.	20	8	0	.00	73.23	1159.77

*SECNO 54.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

54.00	5.51	6551.51	6551.51	.00	6552.18	.67	2.55	.06	6550.00
1370.	60.	1044.	266.	24.	142.	107.	270.	79.	6550.00
.68	2.48	7.37	2.48	.030	.025	.030	.000	6546.00	1010.20
.003652	506.	506.	506.	20	10	0	.00	219.37	1248.04

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THIS RUN EXECUTED 9/13/96 12:19:31

HEC2 RELEASE DATED SEP 88 UPDATED APR 1989

ERROR CORR - 01,02

MODIFICATION -

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

SUBCRITICAL

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EB	10*KS	VCH	AREA	.01K
	48.000	.00	.00	.00	6118.00	7150.00	6125.50	.00	6125.82	6.29	4.52	1581.59	2850.05
*	2.000	500.00	.00	.00	6121.30	6840.00	6130.77	6130.77	6134.23	51.88	14.92	460.29	949.61
*	3.000	500.00	.00	.00	6123.60	6840.00	6134.20	6134.20	6137.49	46.18	14.74	487.17	1006.58
	4.000	500.00	.00	.00	6127.00	6840.00	6137.12	.00	6139.39	28.77	12.10	565.48	1275.33
*	5.000	500.00	.00	.00	6132.00	6840.00	6141.87	6141.87	6145.73	56.20	15.75	434.22	912.44
	6.000	680.00	.00	.00	6138.00	6840.00	6146.66	.00	6148.63	29.74	11.25	608.24	1254.15
*	7.000	65.00	.00	.00	6144.00	6840.00	6154.02	6154.02	6159.03	20.13	17.97	380.61	1524.50
*	7.100	85.00	6158.00	6154.00	6144.00	6840.00	6156.62	.00	6159.78	10.44	14.26	479.69	2116.83
	8.000	500.00	.00	.00	6146.20	6860.00	6159.24	.00	6160.57	14.23	9.27	740.10	1818.52
	9.000	500.00	.00	.00	6148.00	6860.00	6159.72	.00	6161.64	23.40	11.13	616.46	1418.11
*	10.000	480.00	.00	.00	6154.00	6860.00	6162.12	6162.12	6166.22	65.84	16.25	422.07	845.43
*	10.100	210.00	6172.00	6168.00	6162.00	6860.00	6170.99	.00	6172.30	16.67	9.20	745.38	1679.97
*	11.000	500.00	.00	.00	6166.00	6475.00	6173.97	6173.97	6176.50	54.87	12.76	507.51	874.10
*	12.000	500.00	.00	.00	6167.50	6475.00	6177.03	6177.03	6179.63	55.16	12.94	500.53	871.78
*	13.000	450.00	.00	.00	6171.00	6475.00	6179.27	6179.27	6182.68	54.84	14.81	437.22	874.36
*	14.000	420.00	.00	.00	6173.70	6475.00	6182.77	.00	6184.09	17.50	9.20	707.28	1547.90
*	15.000	380.00	.00	.00	6175.70	6860.00	6186.79	6186.79	6191.25	61.29	16.93	405.08	876.24

	SECND	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIMS	EG	10*KS	VCH	AREA	.01K
*	16.000	375.00	.00	.00	6188.00	6860.00	6197.01	6197.01	6197.89	4.84	9.27	1418.43	3118.24
*	16.100	50.00	6195.00	6192.40	6188.00	6860.00	6198.09	.00	6198.38	1.72	5.96	2163.64	5234.92
*	17.000	460.00	.00	.00	6192.00	6860.00	6199.16	6199.16	6200.49	27.08	10.31	932.09	1318.21
*	18.000	440.00	.00	.00	6194.00	6860.00	6201.15	6201.15	6202.44	25.15	10.12	962.45	1367.80
*	19.000	360.00	.00	.00	6196.00	6860.00	6202.75	6202.75	6204.04	27.50	10.46	957.71	1308.14
*	20.000	320.00	.00	.00	6198.00	6860.00	6204.62	6204.62	6205.93	28.78	10.55	933.52	1278.76
*	21.000	400.00	.00	.00	6201.50	4760.00	6210.32	6210.32	6211.24	4.89	9.02	938.42	2152.57
*	21.100	40.00	6208.70	6207.70	6201.50	4760.00	6211.39	.00	6211.71	1.81	5.93	1441.70	3534.07
*	22.000	400.00	.00	.00	6205.00	4760.00	6211.01	6211.01	6213.62	54.33	12.97	370.10	645.75
	23.000	670.00	.00	.00	6208.00	4460.00	6214.88	.00	6216.87	41.69	11.30	394.52	690.72
*	24.000	460.00	.00	.00	6221.80	4460.00	6228.02	6228.02	6228.96	7.06	9.13	771.30	1678.58
*	24.100	50.00	6226.00	6226.10	6222.50	4460.00	6230.41	.00	6230.61	1.37	4.73	1561.10	3805.99
*	25.000	342.00	.00	.00	6224.00	4460.00	6232.51	6232.51	6234.02	26.16	10.95	567.59	872.05
*	26.000	450.00	.00	.00	6226.00	4460.00	6234.19	6234.19	6236.66	55.84	12.63	353.13	596.83
*	27.000	460.00	.00	.00	6234.00	4460.00	6243.39	6243.39	6246.14	55.10	13.30	336.96	600.82
*	28.000	468.00	.00	.00	6240.00	4460.00	6250.41	6250.41	6251.93	29.62	10.52	544.71	819.53
*	29.000	338.00	.00	.00	6244.00	4460.00	6254.11	6254.11	6256.83	47.82	13.33	347.54	644.93
*	30.000	390.00	.00	.00	6259.00	4460.00	6268.54	6268.54	6269.89	6.48	10.46	683.81	1752.13
*	30.100	80.00	6267.50	6265.70	6260.00	4460.00	6269.83	6269.55	6270.91	5.20	9.56	781.24	1955.46
*	31.000	495.00	.00	.00	6266.00	3450.00	6271.59	6271.59	6273.63	59.96	11.47	300.91	445.53
*	32.000	624.00	.00	.00	6272.00	3450.00	6277.00	6277.00	6279.24	59.83	12.01	287.25	446.02
*	33.000	504.00	.00	.00	6278.00	3450.00	6284.98	6284.98	6286.97	59.44	11.31	305.05	447.49
*	34.000	500.00	.00	.00	6284.00	3450.00	6289.99	6289.99	6292.31	58.03	12.22	282.26	452.89
*	35.000	450.00	.00	.00	6300.00	2940.00	6308.47	6308.47	6309.16	4.93	8.10	710.57	1324.39
*	35.100	70.00	6306.80	6305.60	6300.00	2940.00	6309.13	.00	6309.40	2.13	5.60	1027.20	2013.24
*	36.000	516.00	.00	.00	6308.00	2940.00	6317.08	6317.08	6318.43	10.44	9.90	476.93	910.03

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	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	37.000	540.00	.00	.00	6315.00	2940.00	6323.63	6323.63	6326.86	26.90	14.41	203.99	566.87
*	38.000	486.00	.00	.00	6321.00	2940.00	6329.61	6329.61	6332.86	27.14	14.46	203.31	564.31
*	39.000	498.00	.00	.00	6333.00	2940.00	6340.30	6340.30	6343.23	25.50	13.74	213.92	582.18
*	40.000	352.00	.00	.00	6342.00	2940.00	6348.01	6348.01	6350.25	24.80	12.01	244.79	590.33
*	41.000	420.00	.00	.00	6354.00	1640.00	6361.16	6361.16	6364.78	47.83	15.27	107.43	237.13
*	41.100	100.00	6366.00	6365.00	6356.00	1640.00	6363.17	6363.17	6366.78	47.69	15.25	107.55	237.48
*	42.000	460.00	.00	.00	6368.00	1640.00	6371.43	6371.43	6372.16	28.59	7.10	270.17	306.74
*	43.000	522.00	.00	.00	6376.00	1640.00	6381.07	6381.07	6382.73	26.91	10.35	158.41	316.16
*	44.000	530.00	.00	.00	6386.00	1370.00	6390.36	6390.36	6391.68	67.21	9.22	149.63	167.11
*	45.000	548.00	.00	.00	6398.00	1370.00	6401.65	6401.65	6403.29	67.66	10.28	133.29	166.56
*	46.000	526.00	.00	.00	6410.00	1370.00	6413.86	6413.86	6415.51	66.54	10.29	133.11	167.95
*	47.000	490.00	.00	.00	6422.00	1370.00	6425.82	6425.82	6427.28	67.48	9.71	141.06	166.77
*	48.000	380.00	.00	.00	6430.90	1370.00	6437.25	6437.25	6440.46	30.55	14.39	95.20	247.88
*	48.100	80.00	6443.00	6438.90	6431.90	1370.00	6437.82	6437.82	6441.52	36.90	15.42	88.84	225.53
*	49.000	508.00	.00	.00	6444.00	1370.00	6451.35	6451.35	6453.01	54.82	10.47	140.77	185.04
*	50.000	504.00	.00	.00	6460.00	1370.00	6466.33	6466.33	6467.76	67.88	9.61	143.84	166.29
*	51.000	488.00	.00	.00	6476.00	1370.00	6482.44	6482.44	6483.90	67.75	9.71	141.31	166.45
*	52.000	476.00	.00	.00	6500.00	1370.00	6506.28	6506.28	6507.74	66.16	9.68	141.67	168.43
*	53.000	516.00	.00	.00	6524.00	1370.00	6530.58	6530.58	6531.81	73.70	8.93	155.60	159.58
*	54.000	506.00	.00	.00	6546.00	1370.00	6551.51	6551.51	6552.18	36.52	7.37	272.91	226.69

SUBCRITICAL

SUMMARY PRINTOUT TABLE 150

	SECD	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	48.000	7150.00	6125.50	.00	.00	.00	297.63	.00
*	2.000	6840.00	6130.77	.00	5.27	.00	71.63	500.00
*	3.000	6840.00	6134.20	.00	3.43	.00	78.38	500.00
	4.000	6840.00	6137.12	.00	2.92	.00	69.76	500.00
*	5.000	6840.00	6141.87	.00	4.75	.00	57.95	500.00
	6.000	6840.00	6146.66	.00	4.79	.00	90.50	680.00
*	7.000	6840.00	6154.02	.00	7.35	.00	38.00	65.00
*	7.100	6840.00	6156.62	.00	2.61	.00	38.00	85.00
	8.000	6860.00	6159.24	.00	2.61	.00	81.55	500.00
	9.000	6860.00	6159.72	.00	.49	.00	75.18	500.00
*	10.000	6860.00	6162.12	.00	2.40	.00	52.00	480.00
*	10.100	6860.00	6170.99	.00	8.87	.00	83.00	210.00
*	11.000	6475.00	6173.97	.00	2.98	.00	100.37	500.00
*	12.000	6475.00	6177.03	.00	3.06	.00	96.16	500.00
*	13.000	6475.00	6179.27	.00	2.24	.00	65.73	450.00
*	14.000	6475.00	6182.77	.00	3.50	.00	104.89	420.00
*	15.000	6860.00	6186.79	.00	4.02	.00	46.16	380.00
*	16.000	6860.00	6197.01	.00	10.21	.00	685.00	375.00
*	16.100	6860.00	6198.09	.00	1.08	.00	685.00	50.00
*	17.000	6860.00	6199.16	.00	1.08	.00	366.92	440.00
*	18.000	6860.00	6201.15	.00	1.99	.00	421.12	440.00
*	19.000	6860.00	6202.75	.00	1.60	.00	341.62	360.00
*	20.000	6860.00	6204.62	.00	1.87	.00	339.30	320.00
*	21.000	4760.00	6210.32	.00	5.70	.00	470.00	400.00

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	SECNO	G	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	21.100	4760.00	6211.39	.00	1.06	.00	470.00	40.00
*	22.000	4760.00	6211.01	.00	-.38	.00	76.15	400.00
	23.000	4460.00	6214.88	.00	3.87	.00	71.33	670.00
*	24.000	4460.00	6228.02	.00	13.13	.00	396.25	460.00
*	24.100	4460.00	6230.41	.00	2.39	.00	536.03	50.00
*	25.000	4460.00	6232.51	.00	2.10	.00	229.57	342.00
*	26.000	4460.00	6234.19	.00	1.68	.00	71.16	450.00
*	27.000	4460.00	6243.39	.00	9.21	.00	62.97	460.00
*	28.000	4460.00	6250.41	.00	7.02	.00	226.46	468.00
*	29.000	4460.00	6254.11	.00	3.70	.00	68.66	338.00
*	30.000	4460.00	6268.54	.00	14.43	.00	310.91	390.00
*	30.100	4460.00	6269.83	.00	1.30	.00	343.30	80.00
*	31.000	3450.00	6271.59	.00	1.75	.00	74.35	495.00
*	32.000	3450.00	6277.00	.00	5.41	.00	64.99	624.00
*	33.000	3450.00	6284.98	.00	7.98	.00	77.14	504.00
*	34.000	3450.00	6289.99	.00	5.01	.00	60.96	500.00
*	35.000	2940.00	6308.47	.00	18.48	.00	472.35	450.00
*	35.100	2940.00	6309.13	.00	.66	.00	475.69	70.00
*	36.000	2940.00	6317.08	.00	7.95	.00	265.43	516.00
*	37.000	2940.00	6323.63	.00	6.55	.00	32.26	540.00
*	38.000	2940.00	6329.61	.00	5.98	.00	32.22	486.00
*	39.000	2940.00	6340.30	.00	10.69	.00	36.60	498.00
*	40.000	2940.00	6348.01	.00	7.71	.00	56.24	352.00
*	41.000	1640.00	6361.16	.00	13.15	.00	15.00	420.00
*	41.100	1640.00	6363.17	.00	2.01	.00	15.00	100.00
*	42.000	1640.00	6371.43	.00	8.26	.00	202.83	460.00

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	SECNO	B	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	43.000	1640.00	6381.07	.00	9.64	.00	48.42	522.00
*	44.000	1370.00	6390.36	.00	9.29	.00	62.91	530.00
*	45.000	1370.00	6401.65	.00	11.28	.00	41.11	548.00
*	46.000	1370.00	6413.86	.00	12.22	.00	40.88	526.00
*	47.000	1370.00	6425.82	.00	11.95	.00	48.73	490.00
*	48.000	1370.00	6437.25	.00	11.43	.00	15.00	380.00
*	48.100	1370.00	6437.82	.00	.58	.00	15.00	80.00
*	49.000	1370.00	6451.35	.00	13.53	.00	52.22	508.00
*	50.000	1370.00	6466.33	.00	14.98	.00	58.39	504.00
*	51.000	1370.00	6482.44	.00	16.11	.00	49.31	488.00
*	52.000	1370.00	6506.28	.00	23.84	.00	49.54	496.00
*	53.000	1370.00	6530.58	.00	24.30	.00	73.23	516.00
*	54.000	1370.00	6551.51	.00	20.94	.00	219.37	506.00