

APPENDIX B
1120 ZONE WATER SYSTEM ANALYSIS

COMPUTER RUN #2

MODEL OF ULTIMATE 1120 ZONE
1120 ZONE PUMP STATION ON THE SUMMIT
(SHOWN IN EXHIBIT B)

FOUR CONDITIONS:

- 1) MAXIMUM DAY DEMANDS PLUS A 4,000 GPM
FIRE FLOW AT NODE 738
- 2) MAXIMUM DAY DEMANDS PLUS A 2,500 GPM
FIRE FLOW AT NODE 734
- 3) PEAK HOUR DEMANDS (1.8 X MAX. DAY)
- 4) AVERAGE DAY DEMANDS (0.5 X MAX. DAY)

EXHIBIT B
1120 ZONE WATER SYSTEM

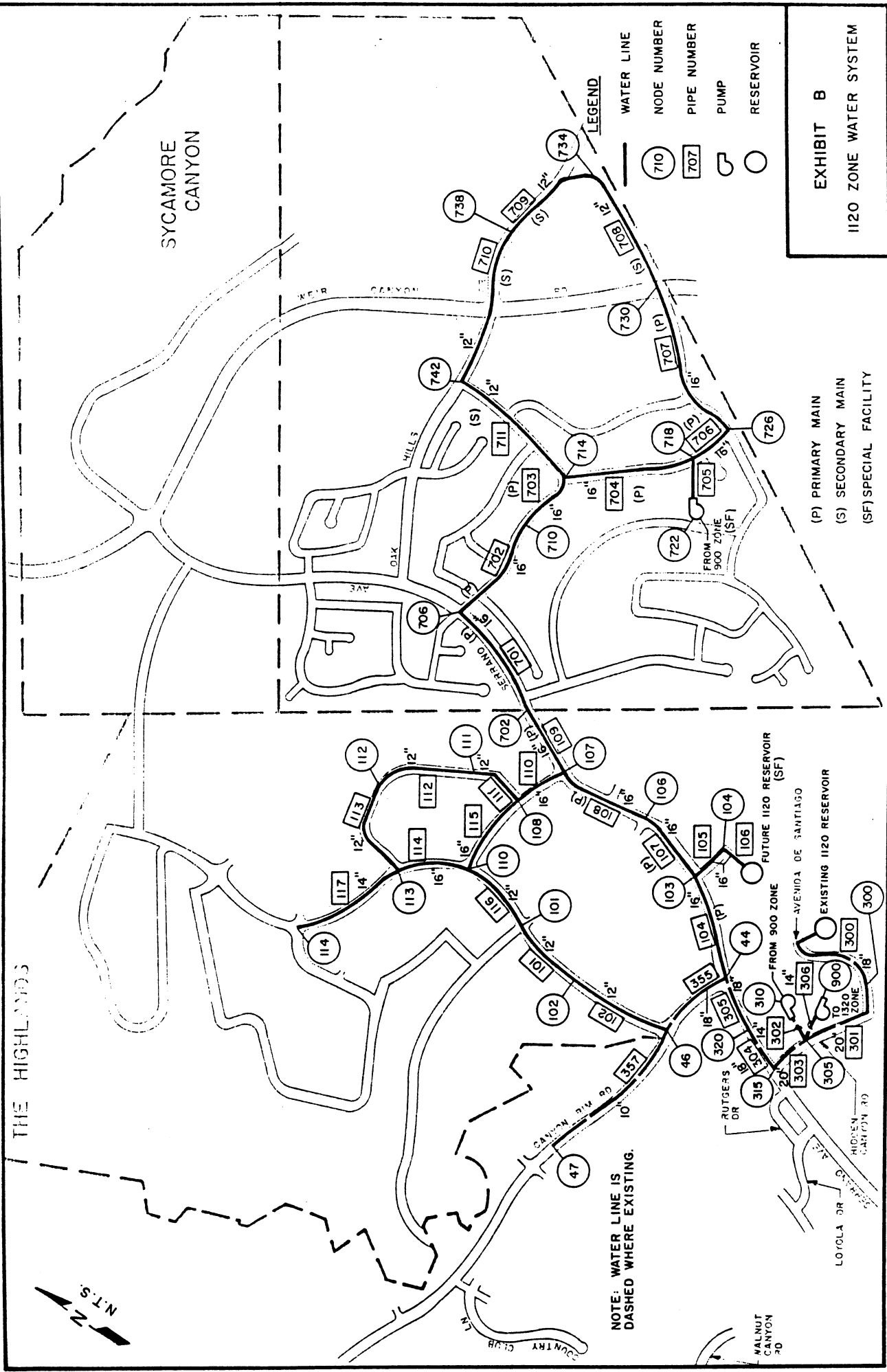
(P) PRIMARY MAIN
 (S) SECONDARY MAIN
 (SF) SPECIAL FACILITY

LEGEND
 WATER LINE
 NODE NUMBER
 PIPE NUMBER
 PUMP
 RESERVOIR

NOTE: WATER LINE IS
 DASHED WHERE EXISTING.

THE HIGHLANDS

SYCAMORE
 CANYON



FLOWRATE IS EXPRESSED IN GPM AND PRESSURE IN PSIG

A SUMMARY OF THE ORIGINAL DATA FOLLOWS

PIPE NO.	NODE NOS.	LENGTH (FEET)	DIAMETER (INCHES)	ROUGHNESS	MINOR LOSS K	FIXED GRADE
101	101 102	650.0	12.0	125.0	.00	
102	102 46	800.0	12.0	125.0	.00	
104	44 103	1000.0	16.0	125.0	.00	
105	103 104	350.0	16.0	125.0	.00	
106	0 104	100.0	16.0	125.0	.00	1120.00
107	103 106	700.0	16.0	125.0	.00	
108	106 107	1100.0	16.0	125.0	.00	
109	107 702	550.0	16.0	125.0	.00	
110	107 108	600.0	16.0	125.0	.00	
111	108 111	475.0	12.0	125.0	.00	
112	111 112	750.0	12.0	125.0	.00	
113	112 113	800.0	12.0	125.0	.00	
114	113 110	700.0	16.0	125.0	.00	
115	110 108	900.0	16.0	125.0	.00	
116	101 110	675.0	12.0	125.0	.00	
117	113 114	950.0	14.0	125.0	.00	1120.00
300	0 300	1400.0	18.0	125.0	.00	1120.00
301	300 305	1400.0	20.0	125.0	.00	
302	310 305	100.0	14.0	125.0	.00	
303	305 315	300.0	20.0	125.0	.00	
304	315 320	1300.0	18.0	125.0	.00	
305	320 44	1300.0	18.0	125.0	.00	
306	305 900	100.0	14.0	125.0	.00	
355	44 46	450.0	18.0	125.0	.00	
357	46 47	1600.0	10.0	120.0	.00	
701	702 706	1100.0	16.0	125.0	.00	
702	706 710	800.0	16.0	125.0	.00	
703	710 714	800.0	16.0	125.0	.00	
704	714 718	1400.0	16.0	125.0	.00	
705	722 718	200.0	16.0	125.0	.00	
706	718 726	450.0	16.0	125.0	.00	
707	726 730	2000.0	16.0	125.0	.00	
708	730 734	1000.0	12.0	125.0	.00	
709	734 738	1500.0	12.0	125.0	.00	
710	738 742	1650.0	12.0	125.0	.00	
711	742 714	1350.0	12.0	125.0	.00	

JUNCTION NUMBER	DEMAND	ELEVATION	CONNECTING PIPES
44	.00	950.00	104 305 355

46	39.00	900.00	102	355	357
47	168.00	811.00	357		
101	78.00	904.00	101	116	
102	77.00	904.00	101	102	
103	.00	1020.00	104	105	107
104	.00	1058.00	105	106	
106	37.00	1033.00	107	108	
107	123.00	940.00	108	109	110
108	100.00	910.00	110	111	115
110	27.00	900.00	114	115	116
111	74.00	904.00	111	112	
112	73.00	901.00	112	113	
113	27.00	894.00	113	114	117
114	200.00	820.00	117		
300	80.00	966.00	300	301	
305	172.00	883.00	301	302	303 306
310	-3400.00	900.00	302		
315	1398.00	872.00	303	304	
320	265.00	930.00	304	305	
702	.00	905.00	109	701	
706	50.00	810.00	701	702	
710	75.00	830.00	702	703	
714	40.00	800.00	703	704	711
718	50.00	890.00	704	705	706
722	-1558.00	875.00	705		
726	75.90	900.00	706	707	
730	50.00	930.00	707	708	
734	75.00	850.00	708	709	
738	4025.00	830.00	709	710	
742	15.00	700.00	710	711	
900	1460.00	900.00	306		

OUTPUT SELECTION: ALL RESULTS ARE OUTPUT EACH PERIOD
 4 VALUES ARE OUTPUT FOR MAXIMUM AND MINIMUM PRESSURES

THIS SYSTEM HAS 36 PIPES WITH 32 JUNCTIONS , 3 LOOPS AND 2 FGNS

THE RESULTS ARE OBTAINED AFTER 5 TRIALS WITH AN ACCURACY = .00042

THE SUMMIT 1120 ZONE 605-006

MAXIMUM DAY DEMANDS PLUS 4000 GPM FIRE FLOW AT NODE 738

1120 PUMP STATION ON THE SUMMIT(OHR); SUM1120

PIPE NO.	NODE NOS.	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	VELOCITY	HL/100
101	101 102	-1039.92	-1.91	.00	.00	-2.95	-2.95
102	102 46	-1116.92	-2.68	.00	.00	-3.17	-3.17

104	44	103	-350.34	-.10	.00	.00	-.56	-.10
105	103	104	-2947.32	-1.74	.00	.00	-4.70	-4.90
106	0	104	2947.32	.50	.00	.00	4.70	4.90
107	103	106	2596.98	2.75	.00	.00	4.14	3.90
108	106	107	2559.98	4.21	.00	.00	4.08	3.80
109	107	702	2897.90	2.65	.00	.00	4.62	4.80
110	107	108	-460.92	-.10	.00	.00	-.74	-.10
111	108	111	-21.64	.00	.00	.00	-.06	.00
112	111	112	-95.64	-.03	.00	.00	-.27	-.00
113	112	113	-168.64	-.08	.00	.00	-.48	-.10
114	113	110	-395.64	-.08	.00	.00	-.63	-.10
115	110	108	539.28	.19	.00	.00	.86	.20
116	101	110	961.92	1.71	.00	.00	2.73	2.50
117	113	114	200.00	.06	.00	.00	.42	.00
300	0	300	948.58	.48	.00	.00	1.20	.30
301	300	305	868.58	.24	.00	.00	.89	.10
302	310	305	3400.00	1.24	.00	.00	7.09	12.40
303	305	315	2636.58	.41	.00	.00	2.69	1.30
304	315	320	1238.58	.73	.00	.00	1.56	.50
305	320	44	973.58	.47	.00	.00	1.23	.30
306	305	900	1460.00	.26	.00	.00	3.04	2.50
355	44	46	1323.92	.29	.00	.00	1.67	.60
357	46	47	168.00	.42	.00	.00	.69	.20
701	702	706	2897.90	5.30	.00	.00	4.62	4.80
702	706	710	2847.90	3.73	.00	.00	4.54	4.60
703	710	714	2772.90	3.55	.00	.00	4.42	4.40
704	714	718	656.53	.43	.00	.00	1.05	.30
705	722	718	1558.00	.31	.00	.00	2.49	1.50
706	718	726	2164.53	1.26	.00	.00	3.45	2.80
707	726	730	2088.63	5.26	.00	.00	3.33	2.60
708	730	734	2038.63	10.20	.00	.00	5.78	10.20
709	734	738	1963.63	14.27	.00	.00	5.57	9.50
710	738	742	-2061.37	-17.18	.00	.00	-5.85	-10.40
711	742	714	-2076.37	-14.24	.00	.00	-5.89	-10.50

JUNCTION NUMBER	DEMAND	GRADE LINE	ELEVATION	PRESSURE
44	.00	1117.67	950.00	72.66
46	39.00	1117.38	900.00	94.20
47	168.00	1116.96	811.00	132.58
101	78.00	1112.80	904.00	90.48
102	77.00	1114.70	904.00	91.30
103	.00	1117.76	1020.00	42.36
104	.00	1119.50	1058.00	26.65
106	37.00	1115.01	1033.00	35.54
107	123.00	1110.79	940.00	74.01
108	100.00	1110.89	910.00	87.05
110	27.00	1111.08	900.00	91.47
111	74.00	1110.89	904.00	89.65
112	73.00	1110.92	901.00	90.96
113	27.00	1111.00	894.00	94.03
114	200.00	1110.94	820.00	126.07
300	80.00	1119.52	966.00	66.53
305	172.00	1119.28	883.00	102.39
310	-3400.00	1120.52	900.00	95.56

315	1398.00	1118.87	872.00	106.98
320	265.00	1118.13	930.00	81.52
702	.00	1108.14	905.00	88.03
706	50.00	1102.84	810.00	126.90
710	75.00	1099.11	830.00	116.61
714	40.00	1095.56	800.00	128.07
718	50.00	1095.12	890.00	88.89
722	-1558.00	1095.43	875.00	95.52
726	75.90	1093.86	900.00	84.01
730	50.00	1088.61	930.00	68.73
734	75.00	1078.41	850.00	98.98
738	4025.00	1064.13	830.00	101.46
742	15.00	1081.31	700.00	165.23
900	1460.00	1119.02	900.00	94.91

MAXIMUM PRESSURES

742	15.00	1081.31	700.00	165.23
47	168.00	1116.96	811.00	132.58
714	40.00	1095.56	800.00	128.07
706	50.00	1102.84	810.00	126.90

MINIMUM PRESSURES

104	.00	1119.50	1058.00	26.65
106	37.00	1115.01	1033.00	35.54
103	.00	1117.76	1020.00	42.36
300	80.00	1119.52	966.00	66.53

THE NET SYSTEM DEMAND = 3895.90

SUMMARY OF INFLOWS(+) AND OUTFLOWS(-) FROM FIXED GRADE NODES

PIPE NUMBER	FLOWRATE
106	2947.32
300	948.58

THE NET FLOW INTO THE SYSTEM FROM FIXED GRADE NODES = 3895.90

THE NET FLOW OUT OF THE SYSTEM INTO FIXED GRADE NODES = .00

A SUMMARY OF CONDITIONS SPECIFIED FOR THE NEXT SIMULATION FOLLOWS

THE FOLLOWING SPECIFIC DEMAND CHANGES ARE MADE :

JUNCTION NUMBER	DEMAND
734	2575.00
738	25.00

THE RESULTS ARE OBTAINED AFTER 3 TRIALS WITH AN ACCURACY = .00235

MAXIMUM DAY DEMANDS PLUS 2500 GPM FIRE FLOW AT NODE 734

PIPE NO.	NODE NOS.	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	VELOCITY	HL/100'
101	101 102	-604.66	-.70	.00	.00	-1.72	-1.07
102	102 46	-681.66	-1.07	.00	.00	-1.93	-1.34
104	44 103	-331.48	-.09	.00	.00	-.53	-.09
105	103 104	-1863.73	-.74	.00	.00	-2.97	-2.17
106	0 104	1863.73	.21	.00	.00	2.97	2.17
107	103 106	1532.24	1.04	.00	.00	2.44	1.48
108	106 107	1495.24	1.56	.00	.00	2.39	1.48
109	107 702	1397.90	.69	.00	.00	2.23	1.22
110	107 108	-25.66	.00	.00	.00	-.04	.00
111	108 111	93.83	.02	.00	.00	.27	.00
112	111 112	19.83	.00	.00	.00	.06	.00
113	112 113	-53.17	-.01	.00	.00	-.15	-.00
114	113 110	-280.17	-.04	.00	.00	-.45	-.00
115	110 108	219.49	.04	.00	.00	.35	.00
116	101 110	526.66	.56	.00	.00	1.49	.88
117	113 114	200.00	.06	.00	.00	.42	.00
300	0 300	532.17	.16	.00	.00	.67	.10
301	300 305	452.17	.07	.00	.00	.46	.00
302	310 305	3400.00	1.24	.00	.00	7.09	12.40
303	305 315	2220.17	.30	.00	.00	2.27	.90
304	315 320	822.17	.34	.00	.00	1.04	.20
305	320 44	557.17	.17	.00	.00	.70	.10
306	305 900	1460.00	.26	.00	.00	3.04	2.50
355	44 46	888.66	.14	.00	.00	1.12	.30
357	46 47	168.00	.42	.00	.00	.69	.20
701	702 706	1397.90	1.37	.00	.00	2.23	1.22
702	706 710	1347.90	.93	.00	.00	2.15	1.10
703	710 714	1272.90	.84	.00	.00	2.03	1.00
704	714 718	257.48	.08	.00	.00	.41	.00
705	722 718	1558.00	.31	.00	.00	2.49	1.50
706	718 726	1765.48	.87	.00	.00	2.82	1.50
707	726 730	1689.58	3.55	.00	.00	2.70	1.70
708	730 734	1639.58	6.81	.00	.00	4.65	6.60
709	734 738	-935.42	-3.61	.00	.00	-2.65	-2.40
710	738 742	-960.42	-4.18	.00	.00	-2.72	-2.50
711	742 714	-975.42	-3.52	.00	.00	-2.77	-2.60

JUNCTION NUMBER	DEMAND	GRADE LINE	ELEVATION	PRESSURE
44	.00	1118.96	950.00	73.21
46	39.00	1118.82	900.00	94.82
47	168.00	1118.40	811.00	133.21
101	78.00	1117.05	904.00	92.32
102	77.00	1117.75	904.00	92.62
103	.00	1119.04	1020.00	42.92
104	.00	1119.79	1058.00	26.77
106	37.00	1118.01	1033.00	36.84
107	123.00	1116.45	940.00	76.46
108	100.00	1116.45	910.00	69.46
110	27.00	1116.49	900.00	93.81

111	74.00	1116.43	904.00	92.05
112	73.00	1116.43	901.00	93.35
113	27.00	1116.44	894.00	96.39
114	200.00	1116.38	820.00	128.43
300	80.00	1119.84	966.00	66.66
305	172.00	1119.76	883.00	102.60
310	-3400.00	1121.00	900.00	95.77
315	1398.00	1119.46	872.00	107.23
320	265.00	1119.12	930.00	81.95
702	.00	1115.76	905.00	91.33
706	50.00	1114.39	810.00	131.90
710	75.00	1113.45	830.00	122.83
714	40.00	1112.61	800.00	135.47
718	50.00	1112.54	890.00	96.43
722	-1558.00	1112.84	875.00	103.07
726	75.90	1111.67	900.00	91.72
730	50.00	1108.12	930.00	77.19
734	2575.00	1101.31	850.00	108.90
738	25.00	1104.92	830.00	119.13
742	15.00	1109.10	700.00	177.28
900	1460.00	1119.50	900.00	95.12

MAXIMUM PRESSURES

742	15.00	1109.10	700.00	177.28
714	40.00	1112.61	800.00	135.47
47	168.00	1118.40	811.00	133.21
706	50.00	1114.39	810.00	131.90

MINIMUM PRESSURES

104	.00	1119.79	1058.00	26.77
106	37.00	1118.01	1033.00	36.84
103	.00	1119.04	1020.00	42.92
300	80.00	1119.84	966.00	66.66

THE NET SYSTEM DEMAND = 2395.90

SUMMARY OF INFLOWS(+) AND OUTFLOWS(-) FROM FIXED GRADE NODES

PIPE NUMBER	FLOWRATE
106	1863.73
300	532.17

THE NET FLOW INTO THE SYSTEM FROM FIXED GRADE NODES = 2395.90

THE NET FLOW OUT OF THE SYSTEM INTO FIXED GRADE NODES = .00

A SUMMARY OF CONDITIONS SPECIFIED FOR THE NEXT SIMULATION FOLLOWS

THE DEMANDS ARE CHANGED FROM ORIGINAL VALUES BY A FACTOR = 1.80

THE FOLLOWING SPECIFIC DEMAND CHANGES ARE MADE :

JUNCTION NUMBER	DEMAND
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738	46.80
310	-3400.00
722	-1558.00

THE RESULTS ARE OBTAINED AFTER 4 TRIALS WITH AN ACCURACY = .00009

PEAK HOUR DEMANDS

1.8 X MAX. DAY DEMANDS

PIPE NO.	NODE NOS.	FLOWRATE	HEAD LOSS PUMP	HEAD MINOR LOSS	VELOCITY	HL/10
101	101 102	39.68	.00	.00	.11	.0
102	102 46	-98.92	-.03	.00	-.28	-.0
104	44 103	-1337.90	-1.15	.00	-2.13	-1.1
105	103 104	-1972.21	-.83	.00	-3.15	-2.3
106	0 104	1972.21	.24	.00	3.15	2.3
107	103 106	634.30	.20	.00	1.01	.2
108	106 107	567.70	.26	.00	.91	.2
109	107 702	-735.58	-.21	.00	-1.17	-.3
110	107 108	1081.88	.47	.00	1.73	.7
111	108 111	329.62	.17	.00	.93	.3
112	111 112	196.42	.10	.00	.56	.1
113	112 113	65.02	.01	.00	.18	.0
114	113 110	-343.58	-.07	.00	-.55	-.0
115	110 108	-572.27	-.22	.00	-.91	-.2
116	101 110	-180.08	-.08	.00	-.51	-.1
117	113 114	360.00	.18	.00	.75	.1
300	0 300	1808.61	1.59	.00	2.28	1.1
301	300 305	1664.61	.82	.00	1.70	.5
302	310 305	3400.00	1.24	.00	7.09	12.4
303	305 315	2127.01	.28	.00	2.17	.9
304	315 320	-389.39	-.09	.00	-.49	-.0
305	320 44	-866.39	-.38	.00	-1.09	-.2
306	305 900	2628.00	.77	.00	5.48	7.7
355	44 46	471.52	.04	.00	.59	.0
357	46 47	302.40	1.25	.00	1.24	.7
701	702 706	-735.58	-.42	.00	-1.17	-.3
702	706 710	-825.58	-.38	.00	-1.32	-.4
703	710 714	-960.58	-.50	.00	-1.53	-.6
704	714 718	-947.69	-.85	.00	-1.51	-.6
705	722 718	1558.00	.31	.00	2.49	1.5
706	718 726	520.31	.09	.00	.83	.2
707	726 730	383.69	.23	.00	.61	.1
708	730 734	293.69	.28	.00	.83	.2
709	734 738	158.69	.14	.00	.45	.0
710	738 742	111.89	.08	.00	.32	.0
711	742 714	84.89	.04	.00	.24	.0

JUNCTION NUMBER	DEMAND	GRADE LINE	ELEVATION	PRESSURE
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44	.00	1117.78	950.00	72.71
46	70.20	1117.74	900.00	94.36
47	302.40	1116.49	811.00	132.38
101	140.40	1117.72	904.00	92.61
102	138.60	1117.71	904.00	92.61
103	.00	1118.94	1020.00	42.87
104	.00	1119.76	1058.00	26.76
106	66.60	1118.73	1033.00	37.15
107	221.40	1118.48	940.00	77.34
108	180.00	1118.01	910.00	90.14
110	48.60	1117.79	900.00	94.38
111	133.20	1117.84	904.00	92.67
112	131.40	1117.74	901.00	93.92
113	48.60	1117.73	894.00	96.95
114	360.00	1117.54	820.00	128.94
300	144.00	1118.41	966.00	66.05
305	309.60	1117.60	883.00	101.66
310	-3400.00	1118.84	900.00	94.83
315	2516.40	1117.32	872.00	106.31
320	477.00	1117.41	930.00	81.21
702	.00	1118.68	905.00	92.60
706	90.00	1119.10	810.00	133.94
710	135.00	1119.48	830.00	125.44
714	72.00	1119.98	800.00	138.66
718	90.00	1120.83	890.00	100.03
722	-1558.00	1121.14	875.00	106.66
726	136.62	1120.74	900.00	95.65
730	90.00	1120.51	930.00	82.56
734	135.00	1120.23	850.00	117.10
738	46.80	1120.09	830.00	125.71
742	27.00	1120.02	700.00	182.01
900	2628.00	1116.83	900.00	93.96

MAXIMUM PRESSURES

742	27.00	1120.02	700.00	182.01
714	72.00	1119.98	800.00	138.66
706	90.00	1119.10	810.00	133.94
47	302.40	1116.49	811.00	132.38

MINIMUM PRESSURES

104	.00	1119.76	1058.00	26.76
106	66.60	1118.73	1033.00	37.15
103	.00	1118.94	1020.00	42.87
300	144.00	1118.41	966.00	66.05

THE NET SYSTEM DEMAND = 3780.82

SUMMARY OF INFLOWS(+) AND OUTFLOWS(-) FROM FIXED GRADE NODES

PIPE NUMBER	FLOWRATE
106	1972.21
300	1808.61

THE NET FLOW INTO THE SYSTEM FROM FIXED GRADE NODES = 3780.82

THE NET FLOW OUT OF THE SYSTEM INTO FIXED GRADE NODES = .00

A SUMMARY OF CONDITIONS SPECIFIED FOR THE NEXT SIMULATION FOLLOWS

THE DEMANDS ARE CHANGED FROM ORIGINAL VALUES BY A FACTOR = .50

THE FOLLOWING SPECIFIC DEMAND CHANGES ARE MADE :

JUNCTION NUMBER	DEMAND
738	13.00
310	-3400.00
722	-1558.00

THE RESULTS ARE OBTAINED AFTER 4 TRIALS WITH AN ACCURACY = .00023

AVERAGE DAY DEMANDS (0.5 X MAX. DAY)

PIPE NO.	NODE NOS.	FLOWRATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	VELOCITY	HL/100
101	101 102	207.13	.10	.00	.00	.59	.15
102	102 46	168.63	.08	.00	.00	.48	.10
104	44 103	573.44	.24	.00	.00	.91	.24
105	103 104	1326.35	.40	.00	.00	2.12	1.15
106	0 104	-1326.35	-.11	.00	.00	-2.12	-1.15
107	103 106	-752.92	-.28	.00	.00	-1.20	-.40
108	106 107	-771.42	-.46	.00	.00	-1.23	-.40
109	107 702	-1329.55	-.63	.00	.00	-2.12	-1.15
110	107 108	496.63	.11	.00	.00	.79	.18
111	108 111	134.90	.03	.00	.00	.38	.03
112	111 112	97.90	.03	.00	.00	.28	.03
113	112 113	61.40	.01	.00	.00	.17	.01
114	113 110	-52.10	.00	.00	.00	-.08	.00
115	110 108	-311.73	-.07	.00	.00	-.50	-.03
116	101 110	-246.13	-.14	.00	.00	-.70	-.20
117	113 114	100.00	.02	.00	.00	.21	.01
300	0 300	-1204.20	-.75	.00	.00	-1.52	-.50
301	300 305	-1244.20	-.48	.00	.00	-1.27	-.30
302	310 305	3400.00	1.24	.00	.00	7.09	12.40
303	305 315	1339.80	.12	.00	.00	1.37	.30
304	315 320	640.80	.22	.00	.00	.81	.10
305	320 44	508.30	.14	.00	.00	.64	.10
306	305 900	730.00	.07	.00	.00	1.52	.70
355	44 46	-65.13	.00	.00	.00	-.08	.00
357	46 47	84.00	.12	.00	.00	.34	.00
701	702 706	-1329.55	-1.25	.00	.00	-2.12	-1.10
702	706 710	-1354.55	-.94	.00	.00	-2.15	-1.10
703	710 714	-1392.05	-.99	.00	.00	-2.22	-1.20

704	714	718	-1187.31	-1.29	.00	.00	-1.89	-.9
705	722	718	1558.00	.31	.00	.00	2.49	1.5
706	718	726	345.69	.04	.00	.00	.55	.0
707	726	730	307.74	.15	.00	.00	.49	.0
708	730	734	282.74	.26	.00	.00	.80	.2
709	734	738	245.24	.30	.00	.00	.70	.2
710	738	742	232.24	.30	.00	.00	.66	.1
711	742	714	224.74	.23	.00	.00	.64	.1

JUNCTION NUMBER	DEMAND	GRADE LINE	ELEVATION	PRESSURE
44	.00	1120.75	950.00	73.99
46	19.50	1120.75	900.00	95.66
47	84.00	1120.63	811.00	134.17
101	39.00	1120.93	904.00	94.00
102	38.50	1120.83	904.00	93.96
103	.00	1120.51	1020.00	43.55
104	.00	1120.11	1058.00	26.92
106	18.50	1120.79	1033.00	38.04
107	61.50	1121.24	940.00	78.54
108	50.00	1121.13	910.00	91.49
110	13.50	1121.06	900.00	95.79
111	37.00	1121.10	904.00	94.08
112	36.50	1121.08	901.00	95.37
113	13.50	1121.06	894.00	98.39
114	100.00	1121.05	820.00	130.45
300	40.00	1120.75	966.00	67.06
305	86.00	1121.22	883.00	103.23
310	-3400.00	1122.46	900.00	96.40
315	699.00	1121.11	872.00	107.95
320	132.50	1120.89	930.00	82.72
702	.00	1121.87	905.00	93.98
706	25.00	1123.12	810.00	135.69
710	37.50	1124.07	830.00	127.43
714	20.00	1125.06	800.00	140.86
718	25.00	1126.35	890.00	102.42
722	-1558.00	1126.66	875.00	109.05
726	37.95	1126.31	900.00	98.07
730	25.00	1126.16	930.00	85.00
734	37.50	1125.89	850.00	119.55
738	13.00	1125.59	830.00	128.09
742	7.50	1125.29	700.00	184.29
900	730.00	1121.15	900.00	95.83

MAXIMUM PRESSURES

742	7.50	1125.29	700.00	184.29
714	20.00	1125.06	800.00	140.86
706	25.00	1123.12	810.00	135.69
47	84.00	1120.63	811.00	134.17

MINIMUM PRESSURES

104	.00	1120.11	1058.00	26.92
106	18.50	1120.79	1033.00	38.04
103	.00	1120.51	1020.00	43.55
300	40.00	1120.75	966.00	67.06

DATE = 3/30/88

PAGE NO. 11

JOB NAME = THE SUMMIT WATER ANALYSIS

ULTIMATE 1120 ZONE

THE NET SYSTEM DEMAND = -2530.55

SUMMARY OF INFLOWS(+) AND OUTFLOWS(-) FROM FIXED GRADE NODES

PIPE NUMBER	FLOWRATE
106	-1326.35
300	-1204.20

THE NET FLOW INTO THE SYSTEM FROM FIXED GRADE NODES = .00

THE NET FLOW OUT OF THE SYSTEM INTO FIXED GRADE NODES = -2530.55