

AVERAGE DAY DEMANDS

MAXIMUM DIMENSIONS	
Number of pipes	250
Number of pumps	62
Number junction nodes.....	250
Flow meters	62
Boundary nodes	25
Variable storage tanks	62
Pressure switches	62
Regulating Valves.....	62
Items for limited output	250
limit for non-consecutive numbering ..	2572

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Extended Description:

U N I T S S P E C I F I E D

FLOWRATE

HEAD (HGL)

PRESSURE

O U T P U T O P T I O N D A T A

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT

S Y S T E M C O N F I G U R A T I O N

NUMBER OF PIPES(p) = 18

NUMBER OF JUNCTION NODES(j) = 17

NUMBER OF PRIMARY LOOPS(l) = 1

NUMBER OF BOUNDARY NODES(f) = 1

NUMBER OF SUPPLY ZONES(z) = 1

S I M U L A T I O N R E S U L T S

The results are obtained after 5 trials with an accuracy = 0.00301

S I M U L A T I O N D E S C R I P T I O N

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Run Description: AVG DAY DEMANDS-350gpd/UNIT **WITH IRRIGATION DEMANDS** ¾" over 40% of the lot, twice a week is 267.2gpd/UNIT(ASSUME ½ OF THE TOTAL NUMBER OF UNITS WILL BE IRRIGATING (85LOTS/2)=42.5 UNITS

Drawing: SG-WTR

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE BN -BOUNDARY NODE PU -PUMP LINE
 CV -CHECK VALVE RV -REGULATING VALVE TK -STORAGE TANK

PIPE NUMBER	NODE NOS.		FLOWRATE (gpm)	HEAD LOSS (ft)	PUMP HEAD (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL/ 1000 (ft/ft)
	#1	#2						
1-BN	0	2	28.55	0.02	0.00	0.00	0.18	0.03
3	2	3	28.55	0.00	0.00	0.00	0.18	0.03
4	3	4	20.66	0.01	0.00	0.00	0.13	0.02
5	4	5	18.23	0.00	0.00	0.00	0.12	0.01
6	5	6	18.23	0.00	0.00	0.00	0.12	0.01
7	6	7	15.80	0.00	0.00	0.00	0.10	0.01
8	8	7	-15.80	0.00	0.00	0.00	0.10	0.01
9	8	9	13.36	0.00	0.00	0.00	0.09	0.01
10	9	10	10.93	0.00	0.00	0.00	0.07	0.00
11	10	11	10.93	0.00	0.00	0.00	0.07	0.00
12	11	12	8.50	0.00	0.00	0.00	0.05	0.00
13	12	13	6.07	0.00	0.00	0.00	0.04	0.00
14	13	14	3.64	0.00	0.00	0.00	0.02	0.00
15	14	15	3.64	0.00	0.00	0.00	0.02	0.00
16	15	16	1.21	0.00	0.00	0.00	0.01	0.00
17	16	21	1.21	0.00	0.00	0.00	0.01	0.00
18	21	18	0.58	0.00	0.00	0.00	0.01	0.00
19	21	18	0.63	0.00	0.00	0.00	0.02	0.00

J U N C T I O N N O D E R E S U L T S

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	JUNCTION ELEVATION (ft)	PRESSURE HEAD (ft)	JUNCTION PRESSURE (psi)
2-1	10"x8"REDUCE	0.00	239.88	116.00	123.89	53.68
3-1	FH+IRRIGATION)	7.89	239.88	117.20	122.68	53.16
4-1	DMD	2.43	239.88	114.70	125.18	54.24
5-1	FH	0.00	239.88	114.00	125.88	54.55
6-1	DMD	2.43	239.87	109.70	130.17	56.41
7-1	FH	0.00	239.87	111.50	128.37	55.63
8-1	DMD	2.43	239.87	112.20	127.67	55.32
9-1	DMD	2.43	239.87	114.40	125.47	54.37
10-1	FH	0.00	239.87	113.60	126.27	54.72
11-1	DMD	2.43	239.87	113.40	126.47	54.80

JUNCTION	NODE	RESULTS (Continued)			
12-1 DMD	2.43	239.87	113.00	126.87	54.97
13-1 DMD	2.43	239.86	110.10	129.76	56.23
14-1 FH	0.00	239.86	107.90	131.96	57.18
15-1 DMD	2.43	239.86	103.90	135.96	58.92
16-1 FH	0.00	239.86	103.00	136.86	59.31
18-1 DMD	1.21	239.86	103.00	136.86	59.31
21-1 TEE	0.00	239.86	102.88	136.98	59.36

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM BOUNDARY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO BOUNDARY NODES

PIPE NUMBER	FLOWRATE (gpm)
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1	28.55

NET SYSTEM INFLOW = 28.55
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 28.55

**** CYBERNET SIMULATION COMPLETED ****