

APPENDIX "D" - HYDRA FLOW MODEL - 1990  
PART 1

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.: \HYDRA\HEMET\LIN-EE.CMD

8:44 22-May-90

Status of DEFAULTS at start of run. ( \* May be reset by SET)

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Command file : C:\HYDRA\HEMET\LIN-EE.CMD
Input units are read as      : USA
* Output sent to display     : Brief
* Output sent to printer     : Brief
* Output sent to file        : Off
Paper width in inches        : 8.000
String to reset printer      : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer              : Hewlett-Packard, LaserJet/LaserJet P
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes        : 15
Significant flow in hydrograph : 0.010
* Maximum plot value          : Selected by HYDRA
Type of hydrographic plot     : Compact

Sanitary flow by              : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations              : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe : 0.00 or Invert
* Number of allowable diam drops : 999
* Minimum drop thru manhole : 0.000
Routing technique             : Quick

* Calculate sanitary flows : True
* Calculate infiltration flows : True
* Calculate storm flows : True
* Calculate misc flows : True
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```
1: JOB LINE EE AT GILMORE NEAR LATHAM
2:
3: REM --- PIPE AND PIPE COST DATA ---
4: PDA .013 8 8 7.5 3 .004
5: CST 1.5 1 3/ .2 .5 .5 2.87 / .5 0 1.63 +
6:      1.15 / .89 1.1 1.43 4.78
7: EXC 0/.45 18/.45 30/1.12
8: TSL 0/0 6/0 6.001/.5 30/.5
9: PCO 8/2.78 10/4.10 18/9.16 36/18.23
10:
11: REM --- SANITARY CRITERIA ---
12: GPC 100
13:
```

C:\HYDRA\HEMET\LINE-T.CMD

9:24 22-May-90

LINE T AT DEVONSHIRE & GILBERT

-----  
 Lateral length= 1 Upstream length= 1

\*\*\* CALHOUN PLACE

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
6	328	8	598.40 596.54	0.0057	0.1 0.0	0.0 0.0	1.66 0.33	0.11	18.85 0.58		
7	342	8	596.54 591.35	0.0152	0.1 0.0	0.0 0.0	2.39 0.27	0.11	11.53 0.95		

-----  
 Lateral length= 670 Upstream length= 670

\*\*\* BUENA VISTA LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
8	313	8	591.35 590.46	0.0028	0.1 0.0	0.0 0.0	1.25 0.37	0.09	22.91 0.41		

-----  
 Lateral length= 313 Upstream length= 314

\*\*\* DEVONSHIRE LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
9	325	10	595.17 591.32	0.0118	0.2 0.0	0.0 0.0	2.39 0.26	0.15	10.12 1.53		
10	168	10	591.32 590.46	0.0051	0.2 0.0	0.0 0.0	1.76 0.31	0.17	16.61 1.01		
11	324	10	590.46 589.77	0.0021	0.3 0.0	0.0 0.0	1.50 0.51	0.27	41.77 0.65		
12	338	10	589.77 587.75	0.0060	0.3 0.0	0.0 0.0	2.19 0.39	0.28	25.93 1.09		
13	321	10	587.75 584.89	0.0089	0.3 0.0	0.0 0.0	2.54 0.36	0.29	22.19 1.33		
14	330	10	584.89 581.36	0.0107	0.3 0.0	0.0 0.0	2.71 0.35	0.30	20.59 1.45		

C:\HYDRA\HEMET\LINE-T.CMD

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* DEVONSHIRE LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
15	53 10	581.36-0.0064 581.70		0.3 0.0	0.0 0.0	0.00 0.00	0.30	999.99 0.00	0.00	0 0	
16	325 10	581.70 0.0011 581.33		0.3 0.0	0.0 0.0	1.25 0.65	0.30	63.40 0.47			
17	334 10	581.33 0.0069 579.04		0.3 0.0	0.0 0.0	2.39 0.41	0.32	27.42 1.16			
18	333 10	579.04 0.0070 576.70		0.3 0.0	0.0 0.0	2.44 0.41	0.33	28.43 1.18			
19	330 10	576.70 0.0071 574.35		0.4 0.0	0.0 0.0	2.55 0.45	0.39	32.69 1.19			
Lateral length=				3182	Upstream length=				3497		

\*\*\* CENTRAL LATERAL

Diversion

Link	Invert Up/Dn	Maximum Flow Values	San	Inf	Sto	Mis	Design	Cost
21	Unknown	Discharge :	0.06	0.00	0.00	0.00	0.06	0
	Unknown	Diverted :	0.00	0.00	0.00	0.00	0.00	
		Incoming :	0.06	0.00	0.00	0.00	0.06	

\*\*\* CENTRAL LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
22	331 8	601.29 0.0044 599.85		0.1 0.0	0.0 0.0	1.31 0.28	0.06	12.56 0.51		
23	162 8	594.52 0.0020 594.20		0.1 0.0	0.0 0.0	1.07 0.38	0.09	24.76 0.34		
24	169 8	594.20 0.0051 593.34		0.1 0.0	0.0 0.0	1.62 0.35	0.11	20.77 0.55		
25	333 8	593.32 0.0122 589.26		0.1 0.0	0.0 0.0	2.22 0.28	0.11	13.41 0.86		

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* CENTRAL LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
26	327	8	589.24	0.0092	0.1	0.0	2.00	0.11	15.41		
			586.22		0.0						0.30
27	327	8	586.28	0.0094	0.1	0.0	2.04	0.12	16.16		
			583.21		0.0						0.31
28	329	10	583.23	0.0088	0.2	0.0	2.12	0.15	11.45		
			580.32		0.0						0.27
Lateral length=				1978	Upstream length=				1978		

\*\*\* MAYBERRY DIVERSION

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
29	311	8	601.29	0.0031	0.0	0.0	0.00	0.00	0.00		
			600.31		0.0						0.00
30	362	8	600.31	0.0042	0.0	0.0	0.00	0.00	0.00		
			598.79		0.0						0.00
Lateral length=				673	Upstream length=				673		

\*\*\* ACACIA LATERAL

Diversion

Link	Invert Up/Dn	Maximum Flow Values					Design	Cost
		San	Inf	Sto	Mis	Design		
32	598.79	Discharge :	0.06	0.00	0.00	0.00	0.06	0
	598.79	Diverted :	0.00	0.00	0.00	0.00	0.00	
		Incoming :	0.06	0.00	0.00	0.00	0.06	

\*\*\* ACACIA LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
33	330	8	598.79	0.0057	0.1	0.0	1.42	0.06	9.80	
			596.92		0.0					

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* ACACIA LATERAL

Diversion

Link	Invert Up/Dn	Maximum Flow Values					Design	Cost
		San	Inf	Sto	Mis			
35	596.92	Discharge :	0.07	0.00	0.00	0.00	0.07	0
	596.92	Diverted :	0.00	0.00	0.00	0.00	0.00	
		Incoming :	0.07	0.00	0.00	0.00	0.07	

\*\*\* ACACIA LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
36	334	8	596.92 595.56	0.0041	0.1 0.0	1.28 0.28	0.07	13.38 0.49		
37	330	8	595.56 593.35	0.0067	0.1 0.0	1.60 0.27	0.08	11.91 0.63		
38	340	8	593.35 590.97	0.0070	0.1 0.0	1.67 0.28	0.08	12.94 0.65		
39	329	8	590.97 588.45	0.0077	0.1 0.0	1.73 0.27	0.08	12.37 0.68		
40	329	8	588.45 585.25	0.0097	0.1 0.0	2.00 0.29	0.11	13.84 0.76		
41	349	8	585.25 581.46	0.0109	0.1 0.0	2.28 0.33	0.15	18.50 0.81		
42	279	8	581.46 578.86	0.0093	0.1 0.0	2.16 0.34	0.15	19.95 0.75		
43	8	8	578.86 578.85	0.0013	0.1 0.0	1.09 0.59	0.15	53.77 0.28		

Lateral length= 2628      Upstream length= 3301

\*\*\* JUANITA DIVERSION

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove
44	648	8	596.92 594.53	0.0037	0.0 0.0	0.00 0.00	0.00	0.00 0.47	

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* BUENAVISTA DIVERSION

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
45	311	8	598.79 597.49	0.0042	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 0.50		
46	337	8	597.49 596.35	0.0034	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 0.45		
47	330	8	596.35 594.53	0.0055	0.0 0.0	0.0 0.0	1.06 0.15	0.02	3.38 0.58		
48	680	8	594.53 590.22	0.0063	0.0 0.0	0.0 0.0	1.35 0.21	0.04	6.70 0.62		
-----					Lateral length= 1658		Upstream length=		2306		

\*\*\* FLORIDA SOUTH LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
49	247	6	594.94 592.48	0.0100	0.0 0.0	0.0 0.0	0.80 0.09	0.00	0.94 0.36		
50	334	6	592.51 591.78	0.0022	0.0 0.0	0.0 0.0	0.66 0.21	0.01	6.98 0.17		
51	329	8	591.76 590.22	0.0047	0.0 0.0	0.0 0.0	1.01 0.17	0.02	3.98 0.53		
52	328	8	590.02 587.13	0.0088	0.1 0.0	0.0 0.0	1.77 0.25	0.07	9.87 0.73		
53	6	8	587.04- 587.07	0.0050	0.1 0.0	0.0 0.0	0.00 0.00	0.08	999.99 0.00	0.00	0 0
54	324	8	587.01 585.79	0.0038	0.1 0.0	0.0 0.0	1.31 0.31	0.08	16.95 0.48		
55	315	8	585.79 584.53	0.0040	0.1 0.0	0.0 0.0	1.38 0.33	0.09	18.27 0.49		
56	70	8	584.53 584.25	0.0040	0.1 0.0	0.0 0.0	1.42 0.34	0.10	20.09 0.49		
-----					Lateral length= 1952		Upstream length=		4258		

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* FLORIDA NORTH LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
57	12	8	605.76 604.94	0.0701	0.1 0.0	0.0 0.0	4.47 0.21	0.13	6.54 2.05			
58	296	8	604.70 602.60	0.0071	0.1 0.0	0.0 0.0	1.90 0.35	0.13	20.57 0.65			
59	339	8	602.60 599.16	0.0102	0.1 0.0	0.0 0.0	2.16 0.32	0.13	17.19 0.78			
60	318	8	599.16 594.51	0.0146	0.1 0.0	0.0 0.0	2.47 0.29	0.13	14.32 0.94			
61	333	8	594.51 592.98	0.0046	0.2 0.0	0.0 0.0	1.87 0.50	0.21	39.55 0.52			
62	335	8	592.98 591.44	0.0046	0.2 0.0	0.0 0.0	1.87 0.50	0.21	39.52 0.53			
63	322	8	591.44 589.46	0.0062	0.2 0.0	0.0 0.0	2.07 0.46	0.21	34.16 0.61			
64	335	8	589.46 587.10	0.0071	0.2 0.0	0.0 0.0	2.17 0.44	0.21	31.89 0.65			
65	326	10	587.10 585.99	0.0034	0.2 0.0	0.0 0.0	1.64 0.39	0.21	25.29 0.82			
66	311	10	585.99 585.14	0.0027	0.2 0.0	0.0 0.0	1.52 0.41	0.21	28.18 0.73			
67	100	10	585.14 584.25	0.0089	0.2 0.0	0.0 0.0	2.28 0.30	0.21	15.61 1.33			
68	300	10	584.25 582.67	0.0053	0.3 0.0	0.0 0.0	2.14 0.43	0.31	29.94 1.02			
69	335	10	582.67 581.08	0.0047	0.3 0.0	0.0 0.0	2.07 0.44	0.31	31.88 0.97			
70	340	10	587.70 579.50	0.0241	0.3 0.0	0.0 0.0	3.69 0.29	0.32	14.50 2.18			
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Lateral length=				4002	Upstream length=				8260			

C:\HYDRA\HEMET\LINE-T.CMD

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* MAYBERRY LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
71	330	8 610.11 609.28	0.0025	0.1 0.0	0.0 0.0	1.20 0.38	0.10	24.63 0.39		
72	165	8 609.22 608.96	0.0016	0.2 0.0	0.0 0.0	1.26 0.64	0.19	62.16 0.31		
73	165	8 608.99 608.50	0.0030	0.2 0.0	0.0 0.0	1.60 0.56	0.21	48.66 0.42		
74	330	8 608.42 605.41	0.0091	0.2 0.0	0.0 0.0	2.44 0.43	0.22	30.21 0.74		
75	330	8 605.31 598.00	0.0222	0.2 0.0	0.0 0.0	3.30 0.34	0.22	19.38 1.15		
76	332	8 597.97 596.73	0.0037	0.3 0.0	0.0 0.0	1.97 0.67	0.31	66.05 0.47		
77	328	8 596.67 595.71	0.0029	0.3 0.0	0.0 0.0	1.83 0.75	0.33	77.77 0.42		
78	328	8 595.73 592.89	0.0087	0.3 0.0	0.0 0.0	2.70 0.54	0.33	46.45 0.72		
79	331	8 592.87 587.16	0.0172	0.3 0.0	0.0 0.0	3.43 0.45	0.33	32.89 1.02		
80	330	8 587.23- 587.37	0.0004	0.3 0.0	0.0 0.0	0.00 0.00	0.33	999.99 0.00	0.00	0
81	332	8 587.36 587.30	0.0002	0.3 0.0	0.0 0.0	0.48 0.90	0.35	334.05 0.10	0.24	18 18
82	332	8 587.30 583.43	0.0117	0.3 0.0	0.0 0.0	3.03 0.51	0.35	41.55 0.84		
83	334	12 583.41- 583.73	0.0010	0.4 0.0	0.0 0.0	0.00 0.00	0.36	999.99 0.00	0.00	0
84	324	12 583.70 581.31	0.0074	0.4 0.0	0.0 0.0	2.45 0.32	0.36	18.16 1.96		
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Lateral length=			4291	Upstream length=			4294			

C:\HYDRA\HEMET\LINE-T.CMD

9:25 22-May-90

LINE T AT DEVONSHIRE & GILBERT

\*\*\* GILBERT TRUNK

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
85	330	12	581.26 564.73	0.0501	0.4 0.0	0.0 0.0	5.03 0.21	0.36	6.96 5.11		
86	334	12	564.73- 566.05	0.0040	0.4 0.0	0.0 0.0	0.00 0.00	0.37	999.99 0.00	0.00	0 0
87	15	12	580.38 580.37	0.0007	0.5 0.0	0.0 0.0	1.19 0.82	0.53	89.98 0.59		
88	324	12	580.37 579.55	0.0025	0.5 0.0	0.0 0.0	1.90 0.54	0.53	45.90 1.15		
89	336	12	579.49 579.00	0.0015	0.5 0.0	0.0 0.0	1.57 0.63	0.53	60.38 0.87		
90	322	12	578.79 578.18	0.0019	0.7 0.0	0.0 0.0	1.86 0.68	0.67	67.84 0.99		
91	325	12	578.14 577.57	0.0018	0.7 0.0	0.0 0.0	1.81 0.70	0.67	70.42 0.96		
92	388	12	577.61 576.77	0.0022	0.7 0.0	0.0 0.0	2.01 0.70	0.74	70.10 1.06		
93	261	12	576.63- 579.50	0.0110	0.7 0.0	0.0 0.0	0.00 0.00	0.74	999.99 0.00	0.00	0 0
94	51	12	579.50 575.87	0.0709	1.1 0.0	0.0 0.0	7.50 0.32	1.06	17.42 6.08		
95	171	12	575.90 575.70	0.0012	1.1 0.0	0.0 0.0	1.62 0.90	1.06	135.45 0.78	0.28	10 18
96	270	14	575.70 574.99	0.0026	1.1 0.0	0.0 0.0	2.34 0.63	1.06	59.93 1.77		
97	173	14	575.08 574.46	0.0036	1.1 0.0	0.0 0.0	2.60 0.57	1.06	51.21 2.07		
98	331	14	574.46 573.80	0.0020	1.1 0.0	0.0 0.0	2.16 0.72	1.12	72.98 1.54		
99	339	14	573.80- 574.35	0.0016	1.1 0.0	0.0 0.0	0.00 0.00	1.12	999.99 0.00	0.00	0 0

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* GILBERT TRUNK

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
100	19 15	573.35 572.03	0.0691	1.5 0.0	0.0 0.0	8.07 0.28	1.49	13.69 10.89			
Lateral length=				3989	Upstream length=				25318		

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C:\HYDRA\HEMET\LINE-T.CMD

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382: PIP 330.0 619.86 617.26 610.11 609.28 -8!T-230 TO 231  
383:  
384: REC GHOST2  
385:  
386: PIP 164.91 617.26 615.63 609.22 608.96 -8!T-231 TO 232  
387:  
388: SAN 3.0 32.6  
389:  
390: PIP 164.96 615.63 613.82 608.99 608.50 -8!T-232 TO 235  
391:  
392: SAN 1.8 32.6  
393:  
394: SAN 4.9 13.4  
395:  
396: PIP 329.88 613.82 610.46 608.42 605.41 -8!T-235 TO 236  
397:  
398: PIP 329.66 610.46 607.29 605.31 598.00 -8!T-236 TO 237  
399:  
400: REC GHOST3  
401:  
402: PIP 332.09 607.29 604.03 597.97 596.73 -8!T-237 TO 239  
403:  
404: SAN 6.7 13.4  
405: PIP 328.34 604.03 600.66 596.67 595.71 -8!T-239 TO 242  
406: SAN 4.8 13.4  
407:  
408: PIP 327.91 600.66 597.96 595.73 592.89 -8! T-242 TO 244  
409:  
410: PIP 331.32 597.96 595.28 592.87 587.16 -8! T-244 TO 247  
411:  
412: PIP 330.24 595.28 595.26 587.23 587.37 -8!T-247 TO 248  
413: SAN 7.1 13.4  
414:  
415: PIP 331.64 595.26 593.74 587.36 587.30 -8!T-248 TO 251  
416: PIP 331.6 593.74 588.69 587.30 583.43 -8!T-251 TO 252  
417:  
418: SAN 4.5 13.4  
419:  
420: PIP 334.2 588.69 588.38 583.41 583.73 -12!252 TO 254  
421: PIP 324.2 588.38 584.41 583.7 581.31 -12!254 TO 256  
422:  
423: REM END MAYBERRY - BEGIN GILBERT  
424: HOL MAYBERRY  
425:  
426:  
427: NEW GILBERT TRUNK  
428:  
429: REC MAYBERRY  
430: PIP 330.0 584.41 572.64 581.26 564.73 -12!256 TO 257  
431:  
432:  
433: SAN 4.0 13.4 3.6  
434:

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435: SAN 4.0 13.4  
436:  
437: PIP 334.0 572.8 584.99 564.73 566.05 -12:257 TO 188  
438: SAN 3.4 13.4  
439:  
440: REC CENTRAL  
441: PIP 15.2 585.1 584.99 580.38 580.37 -12:188 TO 187  
442: PIP 324.4 584.99 584.99 580.37 579.55 -12:187 TO 186  
443: PIP 336.0 584.99 584.23 579.49 579.0 -12:186 TO 184  
444:  
445: REC ACACIA  
446: PIP 322.2 584.23 585.06 578.79 578.18 -12:184 TO 185  
447:  
448: PIP 324.9 585.06 586.06 578.14 577.57 -12:185 TO 125  
449:  
450:  
451: SAN 4.3 32.6 9.4  
452:  
453: SAN 4.4 14 7.4  
454:  
455: SAN 4.6 32.6 5.6  
456:  
457: SAN 6.3 24.3  
458:  
459: PIP 388.3 586.06 587.69 577.61 576.77 -12:125 TO 124  
460:  
461: PIP 261 587.69 587.7 576.63 579.50 -12:124 TO 118  
462: REC FLORIDA NORTH  
463: PIP 51.2 587.7 586.82 579.50 575.87 -12:118 TO 117  
464:  
465: PIP 170.50 586.82 585.92 575.90 575.70 -12:117 TO 116  
466:  
467:  
468: PIP 270.10 585.92 584.22 575.70 574.99 -14:116 TO 26  
469:  
470: PIP 172.6 584.22 582.89 575.08 574.46 -14:126 TO 12  
471:  
472: REM ADD LATHAM LATERAL GHOST SYSTEM,USE DIURNAL CURVE FOR M.H.4  
473:  
474: DIU 7.16 4.99 3.59 2.14 2.69 9.89 11.55 14.98 +  
475: 18.94 19.98 21.62 22.69 19.99 19.48 18.82 19.27+  
476: 20.22 18.15 19.04 16.87 13.98 13.13 10.62 8.43  
477:  
478: SAN 4.2 14 13.1  
479:  
480: SAN 3.5 14 11.1  
481:  
482: SAN 6.0 14 9.2  
483:  
484: SAN 2.0 14 5.6  
485:  
486: SAN 1.8 32.6 5.6  
487:

-----  
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488: SAN 4.2 32.6 3.7 ! M.H.4  
489:  
490: SAN 1.0 32.6 1.8  
491:  
492: SAN 5.0 14  
493:  
494: PIP 330.7 582.89 581.23 574.46 573.80 -14!T-12 TO T-11  
495:  
496: PIP 339 581.23 581.67 573.80 574.35 -14!T-11 TO T-1  
497: REC DEVONSHIRE  
498:  
499: PIP 19.1 581.67 579.43 573.35 572.03 -15 ! T-1 TO T  
500:  
501: END

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----- S U M M A R Y    O F    A N A L Y S I S -----

Run number on command file :	1
Number of links :	100
Number of hydrographs :	245
Total sanitary population :	10990
Total sanitary area :	573.40 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	3
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	25988.08 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

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Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINE-T20.CMD
Input units are read as : USA
* Output sent to display : Brief
* Output sent to printer : Brief
* Output sent to file : Off
Paper width in inches : 8.000
String to reset printer : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer : Hewlett-Packard, LaserJet/LaserJet F
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes : 15
Significant flow in hydrograph : 0.010
* Maximum plot value : Selected by HYDRA
Type of hydrographic plot : Compact

Sanitary flow by : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe : 0.00 or Invert
* Number of allowable diam drops : 999
* Minimum drop thru manhole : 0.000
Routing technique : Quick

* Calculate sanitary flows : True
* Calculate infiltration flows : True
* Calculate storm flows : True
* Calculate misc flows : True
```

```
-----
1: JOB LINE T AT DEVONSHIRE & GILBERT
2:
3: REM --- PIPE AND PIPE COST DATA ---
4: PDA .013 8 8 7.5 3 .004
5: CST 1.5 1 3 / .2 .5 .5 2.87 / .5 0 1.63 +
6: 1.15 / .89 1.1 1.43 4.78
7: EXC 0/.45 18/.45 30/1.12
8: TSL 0/0 6/0 6.001/.5 30/.5
9: PCO 8/2.78 10/4.10 18/9.16 36/18.23
10:
11: REM --- SANITARY CRITERIA ---
12: GPC 100
13:
```

=====  
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14: REM THIS MODEL RUN IS FOR 2010 CONDITIONS  
15: REM THE FOLLOWING ARE GHOST SYSTEMS UPSTREAM OF MAYBERRY  
16: REM USE MH 5 DIURNAL CURVE  
17: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 +  
18:       167.55 166.67 156.81 134.83 138.13 141.07 118.64 131.29 +  
  
19:       139.26 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
  
20:  
21: NEW GHOST1   ! MAYBERRY & SANTA FE  
22: SAN 8.3   15.4   2.5  
23: SAN 6.6   33.0   4.4  
24: SAN 3.1   15.4   1.7  
25: SAN 11.6   31.1   6.1  
26: PIP 1.0   100   100   150   150   -8   ! DUMMY PIPE  
27: HOL GHOST1  
28:  
29: NEW GHOST2   ! MAYBERRY & TAYLOR  
30: SAN 7.9   15.4  
31: SAN 14.9   37.4   13.3  
32: SAN 6.0   15.4   9.4  
33: PIP 1.0   100   100   150   150   -8   ! DUMMNY PIPE  
34:  
35: HOL GHOST2  
36:  
37: NEW GHOST3   ! MAYBERRY & BUENA VISTA  
38: SAN 16.4   15.4   15.8  
39: SAN 5.1   15.4   17.5  
40: SAN 7.2   15.4   13.3  
41: SAN 8.2   15.4   9.2  
42: SAN 4.4   15.4   3.1  
43: SAN 2.9   15.4   4.7  
44: SAN 5.4   15.4   7.5  
45: SAN 6.4   7.5   ! CHURCH - ASSUME EQ TO 40 PEOPLE  
46: PIP 1.0   100   100   150   150   -8   ! DUMMY PIPE  
47: HOL GHOST3  
48:  
49: NEW GHOST4   ! DEVONSHIRE NEAR HEMET JR HIGH  
50: SAN 3.4   37.4   0.0  
51: SAN 1.9   37.4   4.6  
52: SAN 4.0   37.4   6.4  
53: SAN 30.4   16.28   8.3   ! HEMET JR HIGH PER M&E <---  
54: SAN 10.1   28.1   11.4  
55: PIP 1.0   100   100   150   150   -8   ! DUMMY PIPE  
56: HOL GHOST4  
57:  
58: NEW GHOST5  
59: SAN 3.3   14   13.1   ! ALL COMMERCIAL - 100% DEVELOPED  
60: SAN 2.7   14   10  
61:  
62: SAN 13.2   14   16.6  
63:

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```
64: SAN 5.4 14 3.5
65:
66: PIP 1.0 100 100 150 150 -8 ! DUMMNY PIP
67: HOL GHOST5
68:
69: REM BEGIN ANALYSIS * * * * *
70:
71: NEW CALHOUN PLACE
72:
73: REM THE FOLLOWING IS ACTUAL DIURNAL CURVE OF M.H. 1
74:
75: DIU 21.76 17.93 16.57 17.52 21.63 29.33 36.80 37.28 +
76:
77:      56.26 71.05 55.59 43.79 43.08 70.31 67.55 44.92 +
78:
79:      36.08 34.03 49.95 63.80 43.19 33.58 30.93 25.53
80:
81: SAN 8.2 107.8 8.6 ! P.E. OF 734 BEDS -- SEE CALC'S
82: SAN 5.5 14 3.6 ! COMM - 100% DEVELOPED
83:
84: SAN 3.4 14 ! ZONED R-P
85: PIP 328.15 603.28 600.50 598.40 596.54 -8 ! T-66 TO t-67
86: PIP 342.17 600.50 599.25 596.54 591.35 -8 ! T-67 TO T-22
87:
88: HOL CALHOUN DRIVE
89:
90: NEW BUENA VISTA LATERAL
91: SAN 2.4 14 1.7
92:
93: SAN 5.9 37.4
94: REC GHOST5
95: PIP 312.7 599.25 598.9 591.35 590.46 -8 ! T-22 TO T-21
96: HOL BUENA VISTA
97:
98: NEW DEVONSHIRE LATERAL
99: SAN 1.8 14 8.3
100: REC GHOST4
101: PIP 325.44 601.75 599.49 595.17 591.32 -10 ! T-34 TO T-31
102:
103: SAN 2.6 37.4
104:
105: PIP 167.67 599.49 597.87 591.32 590.46 -10 ! T-31 TO T-21
106:
107: SAN 1.6 37.4
108: REC BUENA VISTA
109: PIP 324.4 597.87 596.34 590.46 589.77 -10 ! T-21 TO T-20
110:
111: SAN 6.1 11.6
112: PIP 338.45 596.34 593.56 589.77 587.75 -10 ! T-20 TO T-19
113:
```

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114: SAN 5.2 14  
115: PIP 321.0 593.56 591.06 587.75 584.89 -10 ! T-19 TO T-17  
116:  
117: SAN 2.0 14  
118:  
119: PIP 329.84 591.06 588.09 584.89 581.36 -10 ! T-17 TO T-6  
120:  
121: SAN 1.7 11.2  
122:  
123: PIP 53 588.09 588.70 581.36 581.70 -10 ! T-6 TO T-5  
124:  
125: PIP 325 588.70 588.33 581.70 581.33 -10 ! T-5 TO T-4  
126:  
127: SAN 4.6 26  
128:  
129: PIP 334 588.33 586.14 581.33 579.04 -10 ! T-4 TO T-3  
130:  
131: SAN 4.6 22.8  
132:  
133: PIP 333 586.14 584.0 579.04 576.70 -10 ! T-3 TO T-2  
134:  
135: SAN 9.2 35.7  
136:  
137: PIP 330 584.0 581.67 576.7 574.35 -10 ! T-2 TO T-1  
138:  
139: HOL DEVONSHIRE  
140:  
141: NEW CENTRAL LATERAL  
142:  
143: REM USE M.H.5 DIUNRAL CURVE (R-1)  
144:  
145: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 +  
146:  
147: 167.55 166.67 156.81 134.83 138.13 141.07 118.64 131.29+  
148:  
149: 139.26 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
  
150: SAN 3.0 37.4 6.7  
151:  
152: SAN 11.7 29.3  
153:  
154: DIV OVERFLOW 0 0.67 0/0 0.52/0 1.52/1  
155:  
156: PIP 331 608.79 605.58 601.29 599.85 -8 ! T-211 TO T-210  
157: SAN 3.4 15.4 3.65  
158:  
159: SAN 2.8 15.4 2.74  
160:  
161: SAN 2.7 15.4 0.93  
162:  
163: SAN 1.9 15.4  
164:

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165: PIP 162 600.8 599.17 594.52 594.20 -8!T-210,207,204,202,201  
166:  
167: SAN 1.9 15.4 3.2  
168:  
169: SAN 4.4 37.4 1.83  
170:  
171: SAN 2.4 14 1.83  
172:  
173: PIP 169.2 599.17 598.47 594.2 593.34 -8 ! T-201 TO 198  
174:  
175: PIP 332.7 598.47 595.19 593.32 589.26 -8!T-198,197,194  
176:  
177: PIP 326.9 595.19 592.15 589.24 586.22 -8!T-194 TO 191  
178:  
179: SAN 3.4 15.4  
180:  
181: PIP 326.7 592.15 589.11 586.28 583.21 -8!191 TO 189  
182:  
183: SAN 6.3 37.4  
184:  
185: PIP 329 589.11 585.1 583.23 580.32 -10!189 TO 188  
186:  
187: HOL CENTRAL  
188:  
189: NEW MAYBERRY DIVERSION  
190:  
191:  
192: REC OVERFLOW  
193:  
194: PIP 311.48 608.79 607.30 601.29 600.31 -8!T-211 TO 212  
195: PIP 361.75 607.3 605.35 600.31 598.79 -8!T-212 TO 168  
196:  
197: HOL MAYBERRY\_DIV  
198:  
199: NEW ACACIA LATERAL  
200:  
201: REM SAME DIURNAL CURVE M.H.5  
202:  
203: SAN 3.7 30.9 5.56  
204:  
205: SAN 1.7 33.5 5.56  
206:  
207: SAN 1.7 33.5 3.72  
208:  
209: SAN 1.7 33.5 3.72  
210:  
211: SAN 1.7 33.5 1.78  
212:  
213: SAN 1.7 29.1 1.78  
214:  
215: SAN 3.4 15.4  
216:

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217: REC MAYBERRY\_DIV  
218:  
219:  
220: DIV BUENAVISTA 0 0.67 0/0 0.59/0 1.59/1  
221:  
222:  
223: PIP 330 605.35 603.23 598.79 596.92 -8 ! T-168 TO 170  
224:  
225: SAN 4.6 15.4  
226:  
227: DIV JUANITA 0 0.67 0/0 0.49/0 1.49/1  
228:  
229:  
230: PIP 334 603.23 600.45 596.92 595.56 -8 ! T-170 TO 200  
231:  
232: SAN 4.8 15.4  
233:  
234: PIP 330 600.45 598.26 595.56 593.35 -8 ! T-200 TO 172  
235:  
236: SAN 4.3 15.4  
237:  
238: PIP 340 598.26 594.95 593.35 590.97 -8 ! T-172 TO 174  
239:  
240: PIP 329 594.95 592.75 590.97 588.45 -8 ! T-174 TO 176  
241: SAN 4.6 37.4  
242: PIP 329 592.75 590.37 588.45 585.25 -8 ! 176 TO 179  
243:  
244: SAN 9.2 37.4  
245:  
246: PIP 349 590.37 586.83 585.25 581.46 -8 ! T-179 TO 181  
247:  
248: PIP 279 586.83 584.35 581.46 578.86 -8 ! T-181 TO 183  
249:  
250: PIP 7.8 584.35 584.23 578.86 578.85 -8 ! T-183 TO 184  
251: HOL ACACIA  
252:  
253: NEW JUANITA DIVERSION  
254:  
255: REC JUANITA  
256:  
257: PIP 648 603.23 600.43 596.92 594.53 -8 ! T-170 TO T-993  
258: HOL JUANITA\_DIV  
259:  
260:  
261: NEW BUENAVISTA DIVERSION  
262:  
263: REC BUENAVISTA  
264:  
265: PIP 310.55 605.35 604.09 598.79 597.49 -8 ! T-168 TO 991  
266: PIP 337.33 604.09 601.72 597.49 596.35 -8 ! T-991 TO 992  
267: SAN 4.1 37.4  
268:

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269: PIP 330 601.72 600.43 596.35 594.53 -8 | T-992 TO 993  
270:  
271: SAN 4.6 37.4  
272:  
273: REC JUANITA\_DIV  
274:  
275: PIP 680 600.43 595.52 594.53 590.22 -8!T-993,994 TO T-94<---  
276: HOL BUENAVIS\_DIV  
277:  
278: NEW FLORIDA SOUTH LATERAL  
279:  
280: SAN 2.0 13.3  
281:  
282: PIP 247 601.98 598.88 594.94 592.48 -6! T-501 TO T-82  
283:  
284: SAN 4.1 14  
285:  
286: PIP 334.2 598.88 597.56 592.51 591.78 -6 | T-82 TO T-89  
287:  
288:  
289: SAN 4.6 14  
290:  
291: PIP 328.5 597.56 595.52 591.76 590.22 -8 | T-89 TO T-94  
292:  
293:  
294: SAN 4.6 14  
295:  
296: REC BUENAVIS\_DIV  
297:  
298: PIP 327.5 595.52 594.13 590.02 587.13 -8 | T-94 TO T-100  
299:  
300: SAN 4.3 14  
301:  
302: PIP 6.0 594.13 594.10 587.04 587.07 -8 | T-100 TO T-103  
303: PIP 324 594.10 592.72 587.01 585.79 -8 | T-103 TO T-101  
304:  
305: SAN 4.4 14  
306:  
307: PIP 315 592.72 591.5 585.79 584.53 -8!T-101 TO 107\*(ASSUMED)<---  
308:  
309:  
310: SAN 4.4 14  
311:  
312: PIP 70 591.5 591.2 584.53 584.25 -8!T-107 TO 106\*(ASSUMED)<---  
313: HOL FLORIDA\_SOUTH  
314:  
315: NEW FLORIDA NORTH LATERAL  
316:  
317: REM CONTINUE R-1 DIURNAL CURVE (M.H.5)  
318:  
319: SAN 5.8 15.4 12.1  
320:

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321: SAN 5.3 15.4 17.7  
322:  
323: SAN 5.2 15.4 10.0  
324:  
325: SAN 7.1 15.4 8.3  
326:  
327: SAN 24.0 15 6.1 ! ACACIA ELEM. SCH. PER M&E <----  
328:  
329: SAN 7.7 14 1.8  
330:  
331: SAN 5.2 14 3.6  
332:  
333: SAN 4.8 14  
334:  
335: PIP 11.7 611.16 610.94 605.76 604.94 -8 ! T-87 TO 77  
336:  
337: PIP 296.30 610.94 608.8 604.7 602.6 -8 ! T-77 TO 78  
338:  
339: PIP 338.7 608.8 605.9 602.6 599.16 -8 ! T-78 TO 79  
340:  
341: PIP 317.8 605.9 603.0 599.16 594.51 -8 ! T-79 TO 80  
342:  
343: SAN 4.4 24.6 3.9  
344:  
345: SAN 4.8 23.4 1.9  
346:  
347: SAN 2.0 13.3  
348:  
349: SAN 2.0 14  
350:  
351: SAN 2.0 37.4 6.7  
352:  
353: SAN 13.0 15 5.8 ! HEMET EL. SCH. PER M&E <----  
354:  
355: PIP 333.3 603.0 600.8 594.51 592.98 -8 ! T-80 TO 81  
356:  
357: PIP 335.1 600.8 598.0 592.98 591.44 -8 ! T-81 TO 90  
358:  
359: PIP 321.9 598.0 595.9 591.44 589.46 -8 ! T-90 TO 93  
360:  
361: PIP 334.7 595.9 594.5 589.46 587.10 -8 ! T-93 TO 99  
362:  
363: PIP 326 594.5 593.0 587.10 585.99 -10 ! T-99 TO 102  
364:  
365: PIP 311 593.0 592.0 585.99 585.14 -10 ! T-102 TO 104  
366:  
367: PIP 100 592.0 591.2 585.14 584.25 -10 ! T-104 TO 106\* <---  
368:  
369: REC FLORIDA\_SOUTH  
70:  
371: PIP 300 591.2 589.85 584.25 582.67 -10 ! T-106\* TO 112 <---  
372:

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373: SAN 4.6 5.8  
374:  
375: PIP 335.0 589.85 588.66 582.67 581.08 -10!T-112 TO 115  
376:  
377: SAN 6.3 10.4  
378:  
379: PIP 340.0 588.66 587.7 587.7 579.5 -10!T-115 TO 118  
380:  
381: HOL FLORIDA\_NORTH  
382:  
383:  
384: NEW MAYBERRY LATERAL  
385:  
386: REM BEGIN AT MAYBERRY & SANTA FE W/GHOST SYSTEMS  
387:  
388: REC GHOST1  
389: PIP 330.0 619.86 617.26 610.11 609.28 -8!T-230 TO 231  
390:  
391: REC GHOST2  
392:  
393: PIP 164.91 617.26 615.63 609.22 608.96 -8!T-231 TO 232  
394:  
395: SAN 3.0 37.4  
396:  
397: PIP 164.96 615.63 613.82 608.99 608.50 -8!T-232 TO 235  
398:  
399: SAN 1.8 37.4  
400:  
401: SAN 4.9 15.4  
402:  
403: PIP 329.88 613.82 610.46 608.42 605.41 -8!T-235 TO 236  
404:  
405: PIP 329.66 610.46 607.29 605.31 598.00 -8!T-236 TO 237  
406:  
407: REC GHOST3  
408:  
409: PIP 332.09 607.29 604.03 597.97 596.73 -8!T-237 TO 239  
410:  
411: SAN 6.7 15.4  
412: PIP 328.34 604.03 600.66 596.67 595.71 -8!T-239 TO 242  
413: SAN 4.8 15.4  
414:  
415: PIP 327.91 600.66 597.96 595.73 592.89 -8! T-242 TO 244  
416:  
417: PIP 331.32 597.96 595.28 592.87 587.16 -8! T-244 TO 247  
418:  
419: PIP 330.24 595.28 595.26 587.23 587.37 -8!T-247 TO 248  
420: SAN 7.1 15.4  
421:  
422: PIP 331.64 595.26 593.74 587.36 587.30 -8!T-248 TO 251  
423: PIP 331.6 593.74 588.69 587.30 583.43 -8!T-251 TO 252  
424:

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425: SAN 4.5 15.4  
426:  
427: PIP 334.2 588.69 588.38 583.41 583.73 -121252 TO 254  
428: PIP 324.2 588.38 584.41 583.7 581.31 -121254 TO 256  
429:  
430:  
431: REM END MAYBERRY - BEGIN GILBERT  
432:  
433: HOL MAYBERRY  
434:  
435:  
436: NEW GILBERT TRUNK  
437:  
438:  
439: REC MAYBERRY  
440: PIP 330.0 584.41 572.64 581.26 564.73 -121256 TO 257  
441: SAN 4.0 15.4 3.6  
442:  
443: SAN 4.0 15.4  
444:  
445: PIP 334.0 572.8 584.99 564.73 566.05 -121257 TO 188  
446: SAN 3.4 15.4  
447:  
448: REC CENTRAL  
449: PIP 15.2 585.1 584.99 580.38 580.37 -121188 TO 187  
450: PIP 324.4 584.99 584.99 580.37 579.55 -121187 TO 186  
451: PIP 336.0 584.99 584.23 579.49 579.0 -121186 TO 184  
452:  
453: REC ACACIA  
454: PIP 322.2 584.23 585.06 578.79 578.18 -121184 TO 185  
455:  
456: PIP 324.9 585.06 586.06 578.14 577.57 -121185 TO 125  
457:  
458:  
459: SAN 4.3 37.4 9.4  
460:  
461: SAN 4.4 14 7.4  
462:  
463: SAN 4.6 37.4 5.6  
464:  
465: SAN 6.3 27.9  
466:  
467: PIP 388.3 586.06 587.69 577.61 576.77 -121125 TO 124  
468:  
469: PIP 261 587.69 587.7 576.63 579.50 -121124 TO 118  
470: REC FLORIDA NORTH  
471: PIP 51.2 587.7 586.82 579.50 575.87 -121118 TO 117  
472:  
473: PIP 170.50 586.82 585.92 575.90 575.70 -121117 TO 116  
74:  
475:  
476: PIP 270.10 585.92 584.22 575.70 574.99 -141116 TO 26  
477:

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478: PIP 172.6 584.22 582.89 575.08 574.46 -14|26 TO 12  
479:  
480: REM ADD LATHAM LATERAL GHOST SYSTEM,USE DIURNAL CURVE FOR M.H.4  
481:  
482:  
483: DIU 7.16 4.99 3.59 2.14 2.69 9.89 11.55 14.98 +  
484: 18.94 19.98 21.62 22.69 19.99 19.48 18.82 19.27+  
485: 20.22 18.15 19.04 16.87 13.98 13.13 10.62 8.43  
486:  
487: SAN 4.2 14 13.1  
488:  
489: SAN 3.5 14 11.1  
490:  
491: SAN 6.0 14 9.2  
492:  
493: SAN 2.0 14 5.6  
494:  
495: SAN 1.8 37.4 5.6  
496:  
497: SAN 4.2 37.4 3.7 1 M.H.4  
498:  
499: SAN 1.0 37.4 1.8  
500:  
501: SAN 5.0 14  
502:  
503: PIP 330.7 582.89 581.23 574.46 573.80 -14|T-12 TO T-11  
504:  
505: PIP 339 581.23 581.67 573.80 573.35 -14|T-11 TO T-1  
506: REC DEVONSHIRE  
507:  
508: PIP 19.1 581.67 579.43 573.35 572.03 -15 1 T-1 TO T  
509:  
510: END

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----- S U M M A R Y    O F    A N A L Y S I S -----

Run number on command file :	1
Number of links :	100
Number of hydrographs :	245
Total sanitary population :	12540
Total sanitary area :	573.40 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	3
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	25988.08 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* GHOST1

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	1	8	150.00 150.00	0.0000	0.1 0.0	0.0 0.0	0.00 0.00	0.11	999.99 0.00	0.00	0 0
-----					Lateral length= 1		Upstream length= 1				

\*\*\* GHOST2

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
2	1	8	150.00 150.00	0.0000	0.1 0.0	0.0 0.0	0.00 0.00	0.11	999.99 0.00	0.00	0 0
-----					Lateral length= 1		Upstream length= 1				

\*\*\* GHOST3

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
3	1	8	150.00 150.00	0.0000	0.1 0.0	0.0 0.0	0.00 0.00	0.12	999.99 0.00	0.00	0 0
-----					Lateral length= 1		Upstream length= 1				

\*\*\* GHOST4

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
4	1	8	150.00 150.00	0.0000	0.2 0.0	0.0 0.0	0.00 0.00	0.16	999.99 0.00	0.00	0 0
-----					Lateral length= 1		Upstream length= 1				

\*\*\* GHOST5

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
5	1	8	150.00	0.0000	0.1	0.0	0.00	0.05	999.99	0.00	0

LINE T AT DEVONSHIRE & GILBERT

-----  
Lateral length= 1 Upstream length= 1  
-----

\*\*\* CALHOUN PLACE

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
6	328	8	598.40 596.54	0.0057	0.2 0.0	0.0 0.0	1.92 0.43	0.18	30.44 0.58		
7	342	8	596.54 591.35	0.0152	0.2 0.0	0.0 0.0	2.70 0.33	0.18	18.61 0.95		

-----  
Lateral length= 670 Upstream length= 670  
-----

\*\*\* BUENA VISTA LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Rep
8	313	8	591.35 590.46	0.0028	0.1 0.0	0.0 0.0	1.24 0.36	0.09	22.63 0.41		

-----  
Lateral length= 313 Upstream length= 314  
-----

\*\*\* DEVONSHIRE LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
9	325	10	595.17 591.32	0.0118	0.2 0.0	0.0 0.0	2.43 0.26	0.17	10.89 1.53		
10	168	10	591.32 590.46	0.0051	0.2 0.0	0.0 0.0	1.80 0.32	0.18	17.92 1.01		
11	324	10	590.46 589.77	0.0021	0.3 0.0	0.0 0.0	1.52 0.52	0.28	43.85 0.65		
12	338	10	589.77 587.75	0.0060	0.3 0.0	0.0 0.0	2.23 0.41	0.30	27.32 1.09		
13	321	10	587.75 584.89	0.0089	0.3 0.0	0.0 0.0	2.58 0.37	0.31	23.33 1.33		
14	330	10	584.89 581.36	0.0107	0.3 0.0	0.0 0.0	2.76 0.36	0.31	21.62 1.45		

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* DEVONSHIRE LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
15	53 10	581.36-0.0064 581.70		0.3 0.0	0.0 0.0	0.00 0.00	0.32	999.99 0.00	0.00	0 0
16	325 10	581.70 0.0011 581.33		0.3 0.0	0.0 0.0	1.27 0.68	0.32	67.01 0.47		
17	334 10	581.33 0.0069 579.04		0.3 0.0	0.0 0.0	2.43 0.42	0.34	29.12 1.16		
18	333 10	579.04 0.0070 576.70		0.4 0.0	0.0 0.0	2.48 0.43	0.36	30.31 1.18		
19	330 10	576.70 0.0071 574.35		0.4 0.0	0.0 0.0	2.61 0.46	0.41	34.97 1.19		

-----  
 Lateral length= 3182                      Upstream length= 3497

\*\*\* CENTRAL LATERAL

Diversion

Link	Invert Up/Dn	Maximum Flow Values	San	Inf	Sto	Mis	Design	Cost
21	Unknown	Discharge :	0.07	0.00	0.00	0.00	0.07	0
	Unknown	Diverted :	0.00	0.00	0.00	0.00	0.00	
		Incoming :	0.07	0.00	0.00	0.00	0.07	

\*\*\* CENTRAL LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
22	331 8	601.29 0.0044 599.85		0.1 0.0	0.0 0.0	1.31 0.28	0.07	12.97 0.51		
23	162 8	594.52 0.0020 594.20		0.1 0.0	0.0 0.0	1.09 0.40	0.09	26.28 0.34		
24	169 8	594.20 0.0051 593.34		0.1 0.0	0.0 0.0	1.66 0.36	0.12	22.38 0.55		
25	333 8	593.32 0.0122 589.26		0.1 0.0	0.0 0.0	2.26 0.29	0.12	14.44 0.86		

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* CENTRAL LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
26	327	8	589.24	0.0092	0.1	0.0	2.04	0.12	16.60		
			586.22		0.0						
27	327	8	586.28	0.0094	0.1	0.0	2.08	0.13	17.47		
			583.21		0.0						
28	329	10	583.23	0.0088	0.2	0.0	2.16	0.17	12.53		
			580.32		0.0						
-----				Lateral length= 1978				Upstream length= 1978			

\*\*\* MAYBERRY DIVERSION

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
29	311	8	601.29	0.0031	0.0	0.0	0.00	0.00	0.00		
			600.31		0.0						
30	362	8	600.31	0.0042	0.0	0.0	0.00	0.00	0.00		
			598.79		0.0						
-----				Lateral length= 673				Upstream length= 673			

\*\*\* ACACIA LATERAL

Diversion

Link	Invert Up/Dn	Maximum Flow Values					Design	Cost
		San	Inf	Sto	Mis	Design		
32	598.79	Discharge :					0.06	0
	598.79	Diverted :					0.00	
		Incoming :					0.06	

\*\*\* ACACIA LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
33	330	8	598.79	0.0057	0.1	0.0	1.45	0.06	11.09		
			596.92		0.0						

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* ACACIA LATERAL

Diversion

Link	Invert Up/Dn		Maximum Flow Values					Cost
			San	Inf	Sto	Mis	Design	
35	596.92	Discharge :	0.07	0.00	0.00	0.00	0.07	0
	596.92	Diverted :	0.00	0.00	0.00	0.00	0.00	
		Incoming :	0.07	0.00	0.00	0.00	0.07	

\*\*\* ACACIA LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
36	334	8 596.92 595.56	0.0041	0.1 0.0	0.0 0.0	1.32 0.30	0.07	15.17 0.49		
37	330	8 595.56 593.35	0.0067	0.1 0.0	0.0 0.0	1.65 0.28	0.09	13.52 0.63		
38	340	8 593.35 590.97	0.0070	0.1 0.0	0.0 0.0	1.72 0.29	0.10	14.72 0.65		
39	329	8 590.97 588.45	0.0077	0.1 0.0	0.0 0.0	1.78 0.29	0.10	14.07 0.68		
40	329	8 588.45 585.25	0.0097	0.1 0.0	0.0 0.0	2.06 0.30	0.12	15.76 0.76		
41	349	8 585.25 581.46	0.0109	0.2 0.0	0.0 0.0	2.37 0.35	0.17	21.11 0.81		
42	279	8 581.46 578.86	0.0093	0.2 0.0	0.0 0.0	2.26 0.37	0.17	22.78 0.75		
43	8	8 578.86 578.85	0.0013	0.2 0.0	0.0 0.0	1.13 0.64	0.17	61.38 0.28		

-----  
Lateral length= 2628                      Upstream length= 3301

\*\*\* JUANITA DIVERSION

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
44	648	8 596.92 594.53	0.0037	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 0.47		

Lateral length= 648

Upstream length= 648

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223: SAN 4.6 13.4  
224:  
225: DIV JUANITA 0 0.67 0/0 0.49/0 1.49/1  
226:  
227:  
228: PIP 334 603.23 600.45 596.92 595.56 -8 ! T-170 TO 200  
229:  
230: SAN 4.8 13.4  
231:  
232: PIP 330 600.45 598.26 595.56 593.35 -8 ! T-200 TO 172  
233:  
234: SAN 4.3 13.4  
235:  
236: PIP 340 598.26 594.95 593.35 590.97 -8 ! T-172 TO 174  
237:  
238: PIP 329 594.95 592.75 590.97 588.45 -8 ! T-174 TO 176  
239: SAN 4.6 32.6  
240: PIP 329 592.75 590.37 588.45 585.25 -8! 176 TO 179  
241:  
242: SAN 9.2 32.6  
243:  
244: PIP 349 590.37 586.83 585.25 581.46 -8 ! T-179 TO 181  
245:  
246: PIP 279 586.83 584.35 581.46 578.86 -8 ! T-181 TO 183  
247:  
248: PIP 7.8 584.35 584.23 578.86 578.85 -8 ! T-183 TO 184  
249: HOL ACACIA  
250:  
251: NEW JUANITA DIVERSION  
252:  
253: REC JUANITA  
254:  
255: PIP 648 603.23 600.43 596.92 594.53 -8 ! T-170 TO T-993  
256: HOL JUANITA\_DIV  
257:  
258:  
259: NEW BUENAVISTA DIVERSION  
260:  
261: REC BUENAVISTA  
262:  
263: PIP 310.55 605.35 604.09 598.79 597.49 -8 ! T-168 TO 991  
264: PIP 337.33 604.09 601.72 597.49 596.35 -8 ! T-991 TO 992  
265: SAN 4.1 32.6  
266:  
267: PIP 330 601.72 600.43 596.35 594.53 -8 ! T-992 TO 993  
268:  
269: SAN 4.6 32.6  
270:  
271: REC JUANITA\_DIV  
272:  
273: PIP 680 600.43 595.52 594.53 590.22 -8!T-993,994 TO T-94<---  
274: HOL BUENAVIS\_DIV  
275:

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276: NEW FLORIDA SOUTH LATERAL  
277:  
278: SAN 2.0 11.6  
279:  
280: PIP 247 601.98 598.88 594.94 592.48 -6 ! T-501 TO T-82  
281:  
282: SAN 4.1 14  
283:  
284: PIP 334.2 598.88 597.56 592.51 591.78 -6 ! T-82 TO T-89  
285: SAN 4.6 14  
286: PIP 328.5 597.56 595.52 591.76 590.22 -8 ! T-89 TO T-94  
287:  
288: SAN 4.6 14  
289: REC BUENAVIS\_DIV  
290:  
291: PIP 327.5 595.52 594.13 590.02 587.13 -8 ! T-94 TO T-100  
292:  
293: SAN 4.3 14  
294:  
295: PIP 6.0 594.13 594.10 587.04 587.07 -8 ! T-100 TO T-103  
296: PIP 324 594.10 592.72 587.01 585.79 -8 ! T-103 TO T-101  
297:  
298: SAN 4.4 14  
299:  
300: PIP 315 592.72 591.5 585.79 584.53 -8 ! T-101 TO 107\*(ASSUMED)<---  
301:  
302: SAN 4.4 14  
303:  
304: PIP 70 591.5 591.2 584.53 584.25 -8 ! T-107 TO 106\*(ASSUMED)<---  
305: HOL FLORIDA\_SOUTH  
306:  
307: NEW FLORIDA NORTH LATERAL  
308:  
309: REM CONTINUE R-1 DIURNAL CURVE (M.H.5)  
310:  
311: SAN 5.8 13.4 12.1  
312:  
313: SAN 5.3 13.4 17.7  
314:  
315: SAN 5.2 13.4 10.0  
316:  
317: SAN 7.1 13.4 8.3  
318:  
319: SAN 24.0 15 6.1 ! ACACIA ELEM. SCH. PER M&E <-----  
320:  
321: SAN 7.7 14 1.8  
322:  
323: SAN 5.2 14 3.6  
324:  
325: SAN 4.8 14  
326:  
327: PIP 11.7 611.16 610.94 605.76 604.94 -8 ! T-87 TO 77  
328:

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329: PIP 296.30 610.94 608.8 604.7 602.6 -8 ! T-77 TO 78  
330:  
331: PIP 338.7 608.8 605.9 602.6 599.16 -8 ! T-78 TO 79  
332:  
333: PIP 317.8 605.9 603.0 599.16 594.51 -8 ! T-79 TO 80  
334:  
335: SAN 4.4 21.5 3.9  
336:  
337: SAN 4.8 20.4 1.9  
338:  
339: SAN 2.0 11.6  
340:  
341: SAN 2.0 14  
342:  
343: SAN 2.0 32.6 6.7  
344:  
345: SAN 13.0 15 5.8 ! HEMET EL. SCH. PER M&E <-----  
346:  
347: PIP 333.3 603.0 600.8 594.51 592.98 -8 ! T-80 TO 81  
348:  
349: PIP 335.1 600.8 598.0 592.98 591.44 -8 ! T-81 TO 90  
350:  
351: PIP 321.9 598.0 595.9 591.44 589.46 -8 ! T-90 TO 93  
352:  
353: PIP 334.7 595.9 594.5 589.46 587.10 -8 ! T-93 TO 99  
354:  
355: PIP 326 594.5 593.0 587.10 585.99 -10 ! T-99 TO 102  
356:  
357: PIP 311 593.0 592.0 585.99 585.14 -10 ! T-102 TO 104  
358:  
359: PIP 100 592.0 591.2 585.14 584.25 -10!T-104 TO 106\*<---  
360:  
361: REC FLORIDA\_SOUTH  
362:  
363: PIP 300 591.2 589.85 584.25 582.67 -10!T-106\* TO 112<---  
364:  
365: SAN 4.6 5.1  
366:  
367: PIP 335.0 589.85 588.66 582.67 581.08 -10!T-112 TO 115  
368:  
369: SAN 6.3 8.8  
370:  
371: PIP 340.0 588.66 587.7 587.7 579.5 -10!T-115 TO 118  
372:  
373: HOL FLORIDA\_NORTH  
374:  
375:  
376: NEW MAYBERRY LATERAL  
377:  
378: REM BEGIN AT MAYBERRY & SANTA FE W/GHOST SYSTEMS  
379:  
380: REC GHOST1  
381:

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LINE T AT DEVONSHIRE & GILBERT

\*\*\* BUENAVISTA DIVERSION

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
45	311	8	598.79 597.49	0.0042	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 0.50			
46	337	8	597.49 596.35	0.0034	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 0.45			
47	330	8	596.35 594.53	0.0055	0.0 0.0	0.0 0.0	1.09 0.16	0.02	3.88 0.58			
48	680	8	594.53 590.22	0.0063	0.0 0.0	0.0 0.0	1.40 0.22	0.05	7.68 0.62			
-----												
Lateral length=				1658	Upstream length=				2306			

\*\*\* FLORIDA SOUTH LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
49	247	6	594.94 592.48	0.0100	0.0 0.0	0.0 0.0	0.84 0.09	0.00	1.08 0.36			
50	334	6	592.51 591.78	0.0022	0.0 0.0	0.0 0.0	0.67 0.22	0.01	7.28 0.17			
51	329	8	591.76 590.22	0.0047	0.0 0.0	0.0 0.0	1.02 0.17	0.02	4.07 0.53			
52	328	8	590.02 587.13	0.0088	0.1 0.0	0.0 0.0	1.80 0.26	0.08	10.77 0.73			
53	6	8	587.04 587.07	0.0050	0.1 0.0	0.0 0.0	0.00 0.00	0.09	999.99 0.00	0.00	0 0	
54	324	8	587.01 585.79	0.0038	0.1 0.0	0.0 0.0	1.34 0.33	0.09	18.33 0.48			
55	315	8	585.79 584.53	0.0040	0.1 0.0	0.0 0.0	1.41 0.34	0.10	19.62 0.49			
56	70	8	584.53 584.25	0.0040	0.1 0.0	0.0 0.0	1.45 0.35	0.11	21.43 0.49			
-----												
Lateral length=				1952	Upstream length=				4258			

LINE T AT DEVONSHIRE & GILBERT

\*\*\* FLORIDA NORTH LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
57	12	8 605.76 604.94	0.0701	0.1 0.0	0.0 0.0	4.53 0.21	0.14	6.87 2.05		
58	296	8 604.70 602.60	0.0071	0.1 0.0	0.0 0.0	1.93 0.36	0.14	21.62 0.65		
59	339	8 602.60 599.16	0.0102	0.1 0.0	0.0 0.0	2.19 0.32	0.14	18.06 0.78		
60	318	8 599.16 594.51	0.0146	0.1 0.0	0.0 0.0	2.50 0.30	0.14	15.05 0.94		
61	333	8 594.51 592.98	0.0046	0.2 0.0	0.0 0.0	1.91 0.51	0.22	41.98 0.52		
62	335	8 592.98 591.44	0.0046	0.2 0.0	0.0 0.0	1.91 0.51	0.22	41.96 0.53		
63	322	8 591.44 589.46	0.0062	0.2 0.0	0.0 0.0	2.11 0.47	0.22	36.27 0.61		
64	335	8 589.46 587.10	0.0071	0.2 0.0	0.0 0.0	2.21 0.45	0.22	33.85 0.65		
65	326	10 587.10 585.99	0.0034	0.2 0.0	0.0 0.0	1.68 0.40	0.22	26.85 0.82		
66	311	10 585.99 585.14	0.0027	0.2 0.0	0.0 0.0	1.54 0.43	0.22	29.92 0.73		
67	100	10 585.14 584.25	0.0089	0.2 0.0	0.0 0.0	2.32 0.31	0.22	16.58 1.33		
68	300	10 584.25 582.67	0.0053	0.3 0.0	0.0 0.0	2.18 0.44	0.32	31.83 1.02		
69	335	10 582.67 581.08	0.0047	0.3 0.0	0.0 0.0	2.11 0.45	0.33	33.92 0.97		
70	340	10 587.70 579.50	0.0241	0.3 0.0	0.0 0.0	3.75 0.30	0.34	15.47 2.18		
-----										
Lateral length=			4002	Upstream length=			8260			

C:\HYDRA\HEMET\LINE-T20.CMD

17:08 22-May-90

LINE T AT DEVONSHIRE & GILBERT

\*\*\* MAYBERRY LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
71	330	8 610.11 609.28	0.0025	0.1 0.0	0.0 0.0	1.26 0.41	0.11	28.27 0.39		
72	165	8 609.22 608.96	0.0016	0.2 0.0	0.0 0.0	1.32 0.71	0.22	72.22 0.31		
73	165	8 608.99 608.50	0.0030	0.2 0.0	0.0 0.0	1.68 0.61	0.24	56.48 0.42		
74	330	8 608.42 605.41	0.0091	0.3 0.0	0.0 0.0	2.54 0.46	0.26	35.04 0.74		
75	330	8 605.31 598.00	0.0222	0.3 0.0	0.0 0.0	3.46 0.36	0.26	22.48 1.15		
76	332	8 597.97 596.73	0.0037	0.4 0.0	0.0 0.0	2.09 0.76	0.38	79.75 0.47		
77	328	8 596.67 595.71	0.0029	0.4 0.0	0.0 0.0	1.92 0.85	0.39	93.71 0.42		
78	328	8 595.73 592.89	0.0087	0.4 0.0	0.0 0.0	2.86 0.60	0.40	55.90 0.72		
79	331	8 592.87 587.16	0.0172	0.4 0.0	0.0 0.0	3.63 0.50	0.40	39.59 1.02		
80	330	8 587.23- 587.37	0.0004	0.4 0.0	0.0 0.0	0.00 0.00	0.40	999.99 0.00	0.00	0 0
81	332	8 587.36 587.30	0.0002	0.4 0.0	0.0 0.0	0.48 0.90	0.42	401.35 0.10	0.31	18 18
82	332	8 587.30 583.43	0.0117	0.4 0.0	0.0 0.0	3.20 0.56	0.42	49.92 0.84		
83	334	12 583.41- 583.73	0.0010	0.4 0.0	0.0 0.0	0.00 0.00	0.43	999.99 0.00	0.00	0 0
84	324	12 583.70 581.31	0.0074	0.4 0.0	0.0 0.0	2.59 0.36	0.43	21.79 1.96		

-----  
 Lateral length= 4291                      Upstream length= 4294

C:\HYDRA\HEMET\LINE-T20.CMD

17:08 22-May-

LINE T AT DEVONSHIRE & GILBERT

\*\*\* GILBERT TRUNK

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
85	330	12	581.26 564.73	0.0501	0.4 0.0	0.0 0.0	5.29 0.23	0.43	8.36 5.11		
86	334	12	564.73- 566.05	0.0040	0.4 0.0	0.0 0.0	0.00 0.00	0.44	999.99 0.00	0.00	0 0
87	15	12	580.38 580.37	0.0007	0.6 0.0	0.0 0.0	1.21 0.90	0.62	105.10 0.59	0.03	8 18
88	324	12	580.37 579.55	0.0025	0.6 0.0	0.0 0.0	2.00 0.59	0.62	53.61 1.15		
89	336	12	579.49 579.00	0.0015	0.6 0.0	0.0 0.0	1.65 0.70	0.62	70.54 0.87		
90	322	12	578.79 578.18	0.0019	0.8 0.0	0.0 0.0	1.94 0.75	0.78	78.85 0.99		
91	325	12	578.14 577.57	0.0018	0.8 0.0	0.0 0.0	1.89 0.77	0.78	81.85 0.96		
92	388	12	577.61 576.77	0.0022	0.9 0.0	0.0 0.0	2.09 0.77	0.86	81.26 1.06		
93	261	12	576.63- 579.50	0.0110	0.9 0.0	0.0 0.0	0.00 0.00	0.86	999.99 0.00	0.00	0 0
94	51	12	579.50 575.87	0.0709	1.2 0.0	0.0 0.0	7.78 0.34	1.20	19.72 6.08		
95	171	12	575.90 575.70	0.0012	1.2 0.0	0.0 0.0	1.62 0.90	1.20	153.32 0.78	0.42	10 18
96	270	14	575.70 574.99	0.0026	1.2 0.0	0.0 0.0	2.43 0.68	1.20	67.83 1.77		
97	173	14	575.08 574.46	0.0036	1.2 0.0	0.0 0.0	2.71 0.62	1.20	57.97 2.07		
98	331	14	574.46 573.80	0.0020	1.3 0.0	0.0 0.0	2.24 0.77	1.27	82.30 1.54		
99	339	14	573.80 573.35	0.0013	1.3 0.0	0.0 0.0	1.91 0.90	1.27	100.92 1.26	0.01	8 18

C:\HYDRA\HEMET\LINE-T20.CMD

17:08 22-May-90

LINE T AT DEVONSHIRE & GILBERT

\*\*\* GILBERT TRUNK

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
100	19	15	573.35	0.0691	1.7	0.0	8.29	1.66	15.25		
			572.03		0.0	0.0	0.30		10.89		
			Lateral length=		3989		Upstream length=		25318		

C:\HYDRA\HEMET\LINE-Y.CMD

17:09 22-May-99

Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINE-Y.CMD
Input units are read as      : USA
* Output sent to display    : Brief
* Output sent to printer    : Brief
* Output sent to file       : Off
Paper width in inches       : 8.000
String to reset printer     : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer             : Hewlett-Packard, LaserJet/LaserJet I
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes       : 15
Significant flow in hydrograph : 0.010
* Maximum plot value         : Selected by HYDRA
Type of hydrographic plot    : Compact

Sanitary flow by            : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations           : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe : 0.00 or Invert
* Number of allowable diam drops : 999
* Minimum drop thru manhole : 0.000
Routing technique          : Quick

* Calculate sanitary flows : True
* Calculate infiltration flows : True
* Calculate storm flows : True
* Calculate misc flows : True
```

```
-----
1: JOB LINE Y AT STETSON & PALM
2:
3: REM --- PIPE AND PIPE COST DATA ---
4: PDA .013 8 8 7.5 3 .004
5: CST 1.5 1 3/ .2 .5 .5 2.87 / .5 0 1.63+
6:      1.15/ .89 1.1 1.43 4.78
7: EXC 0/ .45 18/.45 30/1.12
8: TSL 0/0 6/0 6.001/.5 30/.5
9: PCO 8/ 2.78 10/4.10 18/9.16 36/18.23
10: REM --- SANITARY CRITERIA ---
11: GPC 100 ! AVERAGE DAILY FLOW PER CAPITA
12: REM THIS MODEL RUN IS FOR 1990 CONDITIONS
13:
```

-----  
\\HYDRA\HEMET\LINE-Y.CMD

17:09 22-May-90

14: REM USE M.H.4 DIURNAL CURVE  
15: DIU 7.16 4.99 3.59 2.14 2.69 9.89 11.55 14.98+  
16: 18.94 19.98 21.62 22.69 19.99 19.48 18.82 19.27+  
17: 20.22 18.15 19.04 16.87 13.98 13.13 10.62 8.43  
18:  
19: NEW THORNTON LATERAL  
20: SAN 10.8 10.8 4.3  
21: SAN 8.5 10.8 5.8  
22: SAN 2.5 14 8.6  
23: SAN 8.7 15.5  
24: SAN 9.2 32.6 1.4  
25: SAN 8.6 10.8 3.1  
26: SAN 18.9 32.6 4.7  
27: SAN 2.5 10.8 8.8  
28: SAN 5.5 14 12.4  
29: SAN 2.8 0.0 12.4  
30: SAN 7.4 10.8 16.0  
31: SAN 2.5 14 16.0  
32: SAN 8.0 19.6 16.0  
33: SAN 4.3 10.8 17.8  
34: SAN 1.5 14 17.8  
35: SAN 4.8 19.6 17.8  
36: SAN 10.0 14 20.1  
37: SAN 4.0 19.6 20.1  
38: PIP 335 570.56 567.52 560.07 559.03 -10! Y42 TO Y12  
39: PIP 225 567.52 566.03 559.03 558.44 -10! 12 TO 11  
40: SAN 9.2 10.8  
41: SAN 8.1 10.8 1.4  
42: SAN 8.7 10.8 4.3  
43: PIP 100 566.03 565.18 558.44 558.12 -10! 11 TO 10  
44: PIP 321 565.18 563.80 558.12 557.21 -10! 10 TO 9  
45: PIP 335 563.80 562.24 557.21 556.28 -10! 9 TO 8  
46: SAN 8.5 10.8  
47: SAN 11.7 10.8 3.3  
48: SAN 11.7 10.8 6.1  
49: SAN 10.0 0.0 10.3  
50: SAN 8.0 0.0 14.6  
51: SAN 15.2 0.0 19.6  
52: PIP 346 562.24 563.23 556.28 555.50 -10! 8 TO 7  
53: SAN 5.2 10.8 1.8  
54: PIP 90.97 563.23 563.60 555.50 555.21 -10! 7 TO 6  
55: PIP 155.03 563.60 564.0 555.21 554.75 -10! 6 TO 5  
56: SAN 4.0 10.8  
57: PIP 216.06 564.0 564.5 554.75 554.23 -10! 5 TO 4  
58: PIP 68 564.5 564.75 554.23 554.04 -10! 4 TO 3  
59: SAN 4.5 10.8  
60: PIP 200 564.75 564.0 554.04 553.48 -10! 3 TO 2  
61: SAN 4.2 10.8  
62: SAN 5.1 5.1  
63: PIP 224 564.0 567.26 553.48 551.26 -10! Y-2 TO Y-1  
4: END

-----  
C:\HYDRA\HEMET\LINE-Y.CMD

17:09 22-May-90

----- S U M M A R Y   O F   A N A L Y S I S -----

Run number on command file :	1
Number of links :	12
Number of hydrographs :	50
Total sanitary population :	2988
Total sanitary area :	234.60 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	2616.06 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

=====  
 C:\HYDRA\HEMET\LINE-Y.CMD

17:09 22-May-90

LINE Y AT STETSON & PALM

\*\*\* THORNTON LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
1	335	10	560.07 559.03	0.0031	0.3 0.0	1.84 0.53	0.35	44.07 0.78			
2	225	10	559.03 558.44	0.0026	0.3 0.0	1.74 0.55	0.35	47.96 0.72			
3	100	10	558.44 558.12	0.0032	0.4 0.0	1.94 0.56	0.39	49.10 0.79			
4	321	10	558.12 557.21	0.0028	0.4 0.0	1.86 0.58	0.39	52.17 0.75			
5	335	10	557.21 556.28	0.0028	0.4 0.0	1.84 0.58	0.39	52.72 0.74			
6	346	10	556.28 555.50	0.0023	0.4 0.0	1.79 0.68	0.45	66.81 0.67			
7	91	10	555.50 555.21	0.0032	0.5 0.0	2.03 0.61	0.45	57.28 0.79			
8	155	10	555.21 554.75	0.0030	0.5 0.0	1.98 0.63	0.45	59.36 0.77			
9	216	10	554.75 554.23	0.0024	0.5 0.0	1.85 0.68	0.46	66.90 0.69			
10	68	10	554.23 554.04	0.0028	0.5 0.0	1.95 0.64	0.46	62.05 0.74			
11	200	10	554.04 553.48	0.0028	0.5 0.0	1.96 0.65	0.47	63.03 0.74			
12	224	10	553.48 551.26	0.0099	0.5 0.0	3.06 0.46	0.48	34.31 1.40			
-----											
Lateral length=				2616	Upstream length=				2616		

=====  
C:\HYDRA\HEMET\LINE-Y20.CMD

=====  
17:10 22-May-90

Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINE-Y20.CMD
Input units are read as      : USA
* Output sent to display    : Brief
* Output sent to printer    : Brief
* Output sent to file       : Off
Paper width in inches       : 8.000
String to reset printer     : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer             : Hewlett-Packard, LaserJet/LaserJet I
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes       : 15
Significant flow in hydrograph : 0.010
* Maximum plot value         : Selected by HYDRA
Type of hydrographic plot    : Compact

Sanitary flow by            : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations            : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe       : 0.00 or Invert
* Number of allowable diam drops     : 999
* Minimum drop thru manhole          : 0.000
Routing technique           : Quick

* Calculate sanitary flows           : True
* Calculate infiltration flows       : True
* Calculate storm flows              : True
* Calculate misc flows               : True
```

-----

```
1: JOB LINE Y AT STETSON & PALM
2:
3: REM --- PIPE AND PIPE COST DATA ---
4: PDA .013 8 8 7.5 3 .004
5: CST 1.5 1 3/ .2 .5 .5 2.87 / .5 0 1.63+
6:      1.15/ .89 1.1 1.43 4.78
7: EXC 0/ .45 18/.45 30/1.12
8: TSL 0/0 6/0 6.001/.5 30/.5
9: PCO 8/ 2.78 10/4.10 18/9.16 36/18.23
10: REM --- SANITARY CRITERIA ---
11: GPC 100 1 AVERAGE DAILY FLOW PER CAPITA
12: REM THIS MODEL RUN IS FOR 2010 CONDITIONS
13:
```

-----  
.\HYDRA\HEMET\LINE-Y20.CMD

17:10 22-May-90

14: REM USE M.H.4 DIURNAL CURVE  
15: DIU 7.16 4.99 3.59 2.14 2.69 9.89 11.55 14.98+  
16: 18.94 19.98 21.62 22.69 19.99 19.48 18.82 19.27+  
17: 20.22 18.15 19.04 16.87 13.98 13.13 10.62 8.43  
18:  
19: NEW THORNTON LATERAL  
20: SAN 10.8 15.4 4.3  
21: SAN 8.5 15.4 5.8  
22: SAN 2.5 14 8.6  
23: SAN 8.7 20.0  
24: SAN 9.2 37.4 1.4  
25: SAN 8.6 15.4 3.1  
26: SAN 18.9 37.4 4.7  
27: SAN 2.5 15.4 8.8  
28: SAN 5.5 14 12.4  
29: SAN 2.8 19.6 12.4  
30: SAN 7.4 15.4 16.0  
31: SAN 2.5 14 16.0  
32: SAN 8.0 37.4 16.0  
33: SAN 4.3 15.4 17.8  
34: SAN 1.5 14 17.8  
35: SAN 4.8 37.4 17.8  
36: SAN 10.0 14 20.1  
37: SAN 4.0 37.4 20.1  
38: PIP 335 570.56 567.52 560.07 559.03 -10! Y42- TO Y12  
39: PIP 225 567.52 566.03 559.03 558.44 -10! 12 TO 11  
40: SAN 9.2 15.4  
41: SAN 8.1 15.4 1.4  
42: SAN 8.7 15.4 4.3  
43: PIP 100 566.03 565.18 558.44 558.12 -10! 11 TO 10  
44: PIP 321 565.18 563.80 558.12 557.21 -10! 10 TO 9  
45: PIP 335 563.80 562.24 557.21 556.28 -10! 9 TO 8  
46: SAN 8.5 15.4  
47: SAN 11.7 15.4 3.3  
48: SAN 11.7 15.4 6.1  
49: SAN 10.0 19.6 10.3  
50: SAN 8.0 19.6 14.6  
51: SAN 15.2 19.6 19.6  
52: PIP 346 562.24 563.23 556.28 555.50 -10! 8 TO 7  
53: SAN 5.2 15.4 1.8  
54: PIP 90.97 563.23 563.60 555.50 555.21 -10! 7 TO 6  
55: PIP 155.03 563.60 564.0 555.21 554.75 -10! 6 TO 5  
56: SAN 4.0 15.4  
57: PIP 216.06 564.0 564.5 554.75 554.23 -10! 5 TO 4  
58: PIP 68 564.5 564.75 554.23 554.04 -10! 4 TO 3  
59: SAN 4.5 15.4  
60: PIP 200 564.75 564.0 554.04 553.48 -10! 3 TO 2  
61: SAN 4.2 15.4  
62: SAN 5.1 32.8  
63: PIP 224 564.0 567.26 553.48 551.26 -10! Y-2 TO Y-1  
64: END

=====  
C:\HYDRA\HEMET\LINE-Y20.CMD

=====  
17:10 22-May-90

----- S U M M A R Y     O F     A N A L Y S I S -----

Run number on command file :	1
Number of links :	12
Number of hydrographs :	50
Total sanitary population :	4850
Total sanitary area :	234.60 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	2616.06 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

C:\HYDRA\HEMET\LINE-Y20.CMD

17:10 22-May-90

LINE Y AT STETSON & PALM

\*\*\* THORNTON LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	335	10 560.07 559.03	0.0031	0.5 0.0	0.0 0.0	2.02 0.62	0.46	58.92 0.78		
2	225	10 559.03 558.44	0.0026	0.5 0.0	0.0 0.0	1.90 0.66	0.46	64.11 0.72		
3	100	10 558.44 558.12	0.0032	0.5 0.0	0.0 0.0	2.12 0.67	0.53	66.14 0.79		
4	321	10 558.12 557.21	0.0028	0.5 0.0	0.0 0.0	2.03 0.70	0.53	70.27 0.75		
5	335	10 557.21 556.28	0.0028	0.5 0.0	0.0 0.0	2.02 0.70	0.53	71.01 0.74		
6	346	10 556.28 555.50	0.0023	0.7 0.0	0.0 0.0	1.99 0.90	0.71	106.37 0.67	0.04	8 18
7	91	10 555.50 555.21	0.0032	0.7 0.0	0.0 0.0	2.32 0.83	0.72	91.07 0.79		
8	155	10 555.21 554.75	0.0030	0.7 0.0	0.0 0.0	2.25 0.86	0.72	94.40 0.77		
9	216	10 554.75 554.23	0.0024	0.7 0.0	0.0 0.0	2.05 0.90	0.73	106.25 0.69	0.04	8 18
10	68	10 554.23 554.04	0.0028	0.7 0.0	0.0 0.0	2.21 0.90	0.73	98.61 0.74		
11	200	10 554.04 553.48	0.0028	0.7 0.0	0.0 0.0	2.21 0.90	0.74	100.01 0.74	0.00	8 18
12	224	10 553.48 551.26	0.0099	0.8 0.0	0.0 0.0	3.55 0.60	0.78	55.83 1.40		

-----  
 Lateral length= 2616      Upstream length= 2616

C:\HYDRA\HEMET\LINEBB20.CMD

17:11 22-May

Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINEBB20.CMD
Input units are read as      : USA
* Output sent to display    : Brief
* Output sent to printer    : Brief
* Output sent to file       : Off
Paper width in inches       : 8.000
String to reset printer     : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer             : Hewlett-Packard, LaserJet/LaserJet P
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes       : 15
Significant flow in hydrograph : 0.010
* Maximum plot value         : Selected by HYDRA
Type of hydrographic plot    : Compact

Sanitary flow by            : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations           : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe      : 0.00 or Invert
* Number of allowable diam drops    : 999
* Minimum drop thru manhole         : 0.000
Routing technique           : Quick

* Calculate sanitary flows          : True
* Calculate infiltration flows      : True
* Calculate storm flows            : True
* Calculate misc flows             : True
```

```
-----
1: JOB LINE BB AT MENLO & LYON
2: REM --- PIPE AND PIPE COST DATA ---
3: PDA .013 8 8 7.5 3 .004
4: CST 1.5 1 3 / .2 .5 .5 2.87 / .5 0 1.63 +
5:      1.15 / .89 1.1 1.43 4.78
6: EXC 0/.45 18/.45 30/1.12
7: TSL 0/0 6/0 6.001/.5 30/.5
8: PCO 8/2.78 10/4.10 18/9.16 36/18.23
9: REM --- SANITARY CRITERIA ---
10: GPC 100 ! AVERAGE DAILY FLOW PER CAPITA
11: REM THIS MODEL RUN IS FOR 2010 CONDITIONS
12: REM THE FOLLOWING IS GHOST SYSTEM UPSTREAM OF M.H. BB-2
13: NEW SAN VICENTE DRIVE
```

:\HYDRA\HEMET\LINEBB20.CMD

17:11 22-May-90

14: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.2 (R-A)  
15: DIU 77.49 64.76 57.03 54.49 60.76 85.05 156.93 223.39 +  
16: 233.46 238.6 224.07 204.05 182.09 172.48 170.59 158.67 +  
17: 172 187.58 199.57 195.87 179.75 155.25 129.62 108.13  
18: SAN 3.8 8.8 9.4! AREA TAKES 9.4 MIN. TO REACH OUR PIPE  
19: SAN 5.7 8.8 6.1  
20: SAN 2.0 8.8 2.8  
21: PIP 1.0 551.05 551.05 543.68 543.68 -8! THIS IS A DUMMY PIPE  
22: HOL SAN VICENTE  
23: REM THE FOLLOWING IS GHOST UPSTREAM OF BB-1  
24: NEW SONORA DRIVE  
25: REM USE SAME DIURNAL CURVE  
26: SAN 3.8 8.8  
27: SAN 4.1 8.8  
28: SAN 2.2 8.8  
29: SAN 3.0 8.8  
30: SAN 4.3 8.8  
31: SAN 2.0 8.8  
32: SAN 3.9 8.8  
33: PIP 1.0 549.98 549.98 542.20 542.20 -8 ! THIS IS DUMMY ALSO  
34: HOL SONORA  
35: NEW OAKLAND AVE  
36: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.5 (R-1)  
37: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 167.55 +  
38: 166.67 156.81 134.83 138.13 141.07 118.64 131.29 139.26 +  
39: 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
40: REM THE FOLLOWING ARE GHOST UPSTREAM SYSTEMS  
41: SAN 6.9 19.6 9.0! AREA TAKES 9 MIN. TO REACH OUR PIPE  
42: SAN 3.4 37.4 5.6  
43: SAN 4.6 20.8 2.2  
44: SAN 6.6 15.4 12.8  
45: SAN 7.3 37.4 8.3  
46: SAN 5.9 37.4 4.7  
47: SAN 7.7 37.4 5.0  
48: PIP 330 558.90 557.36 551.58 550.26 -8!  
49: REM THE REST IS BASED ON DIURNAL CURVE OF M.H.2 (R-A)  
50: DIU 77.49 64.76 57.03 54.49 60.76 85.05 156.93 223.39 +  
51: 233.46 238.6 224.07 204.05 182.09 172.48 170.59 158.67 +  
52: 172 187.58 199.57 195.87 179.75 155.25 129.62 108.13  
53: PIP 325 557.36 555.99 550.26 548.96 -8 ! BB-7 TO BB-6  
54: SAN 12.1 20.7  
55: PIP 325 555.99 554.63 548.96 547.66 -8 ! BB-6 TO BB-5  
56: PIP 344 554.63 553.25 547.66 546.28 -8 ! BB-5 TO BB-4  
57: SAN 11.9 8.8 ! INTERSECTION OF LYON AVE  
58: PIP 331 553.25 552.10 546.28 544.95 -8 ! BB-4 TO BB-3  
59: SAN 2.0 8.8  
60: PIP 318 552.10 5551.05 544.95 543.68 -8 ! BB-3 TO BB-2  
61: SAN 2.0 8.8  
62: REC SAN VICENTE  
63: PIP 368.4 551.05 549.98 543.63 542.20 -8 ! BB-2 TO BB-1  
64: SAN 4.0 8.8  
65: REC SONORA

=====  
:\HYDRA\HEMET\LINEBB20.CMD

17:11 22-May-90

----- S U M M A R Y     O F     A N A L Y S I S -----

Run number on command file :	1
Number of links :	10
Number of hydrographs :	46
Total sanitary population :	1973
Total sanitary area :	109.20 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	2638.00 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

C:\HYDRA\HEMET\LINEBB20.CMD

17:11 22-May-90

LINE BB AT MENLO & LYON

\*\*\* SAN VICENTE DRIVE

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	1	8	543.68 543.68	0.0000	0.0 0.0	0.0 0.0	0.00 0.00	0.02	999.99 0.00	0.00	0 0
Lateral length=					1	Upstream length=					1

\*\*\* SONORA DRIVE

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
2	1	8	542.20 542.20	0.0000	0.0 0.0	0.0 0.0	0.00 0.00	0.03	999.99 0.00	0.00	0 0
Lateral length=					1	Upstream length=					1

\*\*\* OAKLAND AVE

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
3	330	8	551.58 550.26	0.0040	0.2 0.0	0.0 0.0	1.71 0.48	0.18	36.90 0.49		
4	325	8	550.26 548.96	0.0040	0.2 0.0	0.0 0.0	1.71 0.48	0.18	36.90 0.49		
5	325	8	548.96 547.66	0.0040	0.2 0.0	0.0 0.0	1.81 0.53	0.22	44.32 0.49		
6	344	8	547.66 546.28	0.0040	0.2 0.0	0.0 0.0	1.81 0.53	0.22	44.26 0.49		
7	331	8	546.28 544.95	0.0040	0.2 0.0	0.0 0.0	1.85 0.55	0.23	47.46 0.49		
8	318	8	544.95 543.68	0.0040	0.2 0.0	0.0 0.0	1.85 0.55	0.24	48.11 0.49		
9	368	8	543.63 542.20	0.0039	0.3 0.0	0.0 0.0	1.88 0.58	0.25	52.45 0.48		

=====  
 C:\HYDRA\HEMET\LINEBB20.CMD

17:11 22-May-90

LINE BB AT MENLO & LYON

\*\*\* OAKLAND AVE

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
10	295	8	542.20 0.0040	0.3 0.0	0.0 0.0	1.97 0.63	0.29	59.34 0.49		
			Lateral length=	2636	Upstream length=			2638		

-----  
C:\HYDRA\HEMET\LINE\_BB.CMD

17:12 22-May-90

Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINE_BB.CMD
Input units are read as      : USA
* Output sent to display    : Brief
* Output sent to printer    : Brief
* Output sent to file       : Off
Paper width in inches        : 8.000
String to reset printer      : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer              : Hewlett-Packard, LaserJet/LaserJet
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes        : 15
Significant flow in hydrograph : 0.010
* Maximum plot value          : Selected by HYDRA
Type of hydrographic plot     : Compact

Sanitary flow by              : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations  : Off
SCS computations              : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe          : 0.00 or Invert
* Number of allowable diam drops        : 999
* Minimum drop thru manhole             : 0.000
Routing technique               : Quick

* Calculate sanitary flows              : True
* Calculate infiltration flows           : True
* Calculate storm flows                 : True
* Calculate misc flows                  : True
```

-----

```
1: JOB LINE BB AT MENLO & LYON
2: REM --- PIPE AND PIPE COST DATA ---
3: PDA .013 8 8 7.5 3 .004
4: CST 1.5 1 3 / .2 .5 .5 2.87 / .5 0 1.63 +
5:      1.15 / .89 1.1 1.43 4.78
6: EXC 0/.45 18/.45 30/1.12
7: TSL 0/0 6/0 6.001/.5 30/.5
8: PCO 8/2.78 10/4.10 18/9.16 36/18.23
9: REM --- SANITARY CRITERIA ---
10: GPC 100 ! AVERAGE DAILY FLOW PER CAPITA
11: REM THIS MODEL RUN IS FOR 1990 CONDITIONS
12: REM THE FOLLOWING IS GHOST SYSTEM UPSTREAM OF M.H. BB-2
13: NEW SAN VICENTE DRIVE
```

\\HYDRA\HEMET\LINE\_BB.CMD

17:12 22-May-90

14: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.2 (R-A)  
15: DIU 77.49 64.76 57.03 54.49 60.76 85.05 156.93 223.39 +  
16: 233.46 238.6 224.07 204.05 182.09 172.48 170.59 158.67 +  
17: 172 187.58 199.57 195.87 179.75 155.25 129.62 108.13  
18: SAN 3.8 7.7 9.4! AREA TAKES 9.4 MIN. TO REACH OUR PIPE  
19: SAN 5.7 7.7 6.1  
20: SAN 2.0 7.7 2.8  
21: PIP 1.0 551.05 551.05 543.68 543.68 -8! THIS IS A DUMMY PIPE  
22: HOL SAN VICENTE  
23: REM THE FOLLOWING IS GHOST UPSTREAM OF BB-1  
24: NEW SONORA DRIVE  
25: REM USE SAME DIURNAL CURVE  
26: SAN 3.8 7.7  
27: SAN 4.1 7.7  
28: SAN 2.2 7.7  
29: SAN 3.0 7.7  
30: SAN 4.3 7.7  
31: SAN 2.0 7.7  
32: SAN 3.9 7.7  
33: PIP 1.0 549.98 549.98 542.20 542.20 -8 ! THIS IS DUMMY ALSO  
34: HOL SONORA  
35: NEW OAKLAND AVE  
36: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.5 (R-1)  
37: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 167.55 +  
38: 166.67 156.81 134.83 138.13 141.07 118.64 131.29 139.26 +  
39: 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
40: REM THE FOLLOWING ARE GHOST UPSTREAM SYSTEMS  
41: SAN 6.9 16.5 9.0! AREA TAKES 9 MIN. TO REACH OUR PIPE  
42: SAN 3.4 27.4 5.6  
43: SAN 4.6 16.9 2.2  
44: SAN 6.6 13.4 12.8  
45: SAN 7.3 27.7 8.3  
46: SAN 5.9 27.4 4.7  
47: SAN 7.7 27.4 5.0  
48: PIP 330 558.90 557.36 551.58 550.26 -8!  
49: REM THE REST IS BASED ON DIURNAL CURVE OF M.H.2 (R-A)  
50: DIU 77.49 64.76 57.03 54.49 60.76 85.05 156.93 223.39 +  
51: 233.46 238.6 224.07 204.05 182.09 172.48 170.59 158.67 +  
52: 172 187.58 199.57 195.87 179.75 155.25 129.62 108.13  
53: PIP 325 557.36 555.99 550.26 548.96 -8 ! BB-7 TO BB-6  
54: SAN 12.1 16.8  
55: PIP 325 555.99 554.63 548.96 547.66 -8 ! BB-6 TO BB-5  
56: PIP 344 554.63 553.25 547.66 546.28 -8 ! BB-5 TO BB-4  
57: SAN 11.9 7.7 ! INTERSECTION OF LYON AVE  
58: PIP 331 553.25 552.10 546.28 544.95 -8 ! BB-4 TO BB-3  
59: SAN 2.0 7.7  
60: PIP 318 552.10 5551.05 544.95 543.68 -8 ! BB-3 TO BB-2  
61: SAN 2.0 7.7  
62: REC SAN VICENTE  
63: PIP 368.4 551.05 549.98 543.63 542.20 -8 ! BB-2 TO BB-1  
64: SAN 4.0 7.7  
65: REC SONORA

=====  
C:\HYDRA\HEMET\LINE\_BB.CMD

17:12 22-May-

66: PIP 294.6 549.98 549.00 542.20 541.03 -8 ! BB-1 TO BB  
67: END

-----  
^ \HYDRA\HEMET\LINE\_BB.CMD

17:12 22-May-90

----- S U M M A R Y     O F     A N A L Y S I S -----

Run number on command file :	1
Number of links :	10
Number of hydrographs :	46
Total sanitary population :	1573
Total sanitary area :	109.20 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	2638.00 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

LINE BB AT MENLO & LYON

\*\*\* SAN VICENTE DRIVE

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	1	8	543.68 543.68	0.0000	0.0 0.0	0.0 0.0	0.00 0.00	0.01	999.99 0.00	0.00	0 0
Lateral length=					1	Upstream length=					1

\*\*\* SONORA DRIVE

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
2	1	8	542.20 542.20	0.0000	0.0 0.0	0.0 0.0	0.00 0.00	0.03	999.99 0.00	0.00	0 0
Lateral length=					1	Upstream length=					1

\*\*\* OAKLAND AVE

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
3	330	8	551.58 550.26	0.0040	0.1 0.0	0.0 0.0	1.58 0.41	0.14	28.18 0.49		
4	325	8	550.26 548.96	0.0040	0.1 0.0	0.0 0.0	1.58 0.41	0.14	28.18 0.49		
5	325	8	548.96 547.66	0.0040	0.2 0.0	0.0 0.0	1.67 0.46	0.17	34.22 0.49		
6	344	8	547.66 546.28	0.0040	0.2 0.0	0.0 0.0	1.67 0.46	0.17	34.17 0.49		
7	331	8	546.28 544.95	0.0040	0.2 0.0	0.0 0.0	1.72 0.48	0.18	36.97 0.49		
8	318	8	544.95 543.68	0.0040	0.2 0.0	0.0 0.0	1.72 0.48	0.18	37.53 0.49		
9	368	8	543.63 542.20	0.0039	0.2 0.0	0.0 0.0	1.74 0.51	0.20	41.27 0.48		

=====  
 C:\HYDRA\HEMET\LINE\_BB.CMD

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LINE BB AT MENLO & LYON

\*\*\* OAKLAND AVE

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
10	295	8	542.20 0.0040	0.2 0.0	0.0 0.0	1.84 0.55	0.23	47.34 0.49		
			Lateral length=	2636	Upstream length=		2638			

=====  
C:\HYDRA\HEMET\LIN-EE.CMD

8:45 22-May-90

```
14: REM MODEL RUN FOR 1990 CONDITIONS
15:
16: NEW ACACIA/RAYMOND LATERAL
17: REM USE DIURNAL CURVE FOR M.H.4
18: DIU 7.16 4.99 3.59 2.14 2.69 9.89 11.55 14.98+
19:      18.94 19.98 21.62 22.69 19.99 19.48 18.82 19.27+
20:      20.22 18.15 19.04 16.87 13.98 13.13 10.62 8.43
21: SAN 18.5 14
22: PIP 331.4 569.51 567.28 560.91 558.95 -10! EE-21 TO 20
23: PIP 331.6 567.28 564.12 558.95 556.52 -10! 20 TO 19
24: SAN 12.2 32.6
25: PIP 663.46 564.12 559.76 556.52 549.33 -10! 19,18,17
26: SAN 10.4 14
27: PIP 331.3 559.76 558.06 549.33 546.86 -10! 17 TO 16
28: SAN 6.9 14
29: PIP 331.1 558.06 555.0 546.86 544.37 -10! 16 TO 12
30: SAN 33.7 14 1.9
31: SAN 24.1 14 4.8
32: SAN 6.5 14
33: SAN 13.7 14 5.3
34: PIP 659.85 555.0 548.71 544.37 543.90 -12! 12 TO 11
35: REM BEGIN RAYMOND
36: PIP 335.5 548.71 550.33 543.86 543.30 -12! 11 TO 10
37: SAN 12.2 14
38: SAN 6.2 32.6
39: PIP 301.3 550.33 551.06 543.30 543.10 -12! 10 TO 9
40: PIP 346.4 551.06 551.79 543.09 542.72 -12! 9 TO 8
41: SAN 12.1 14
42: PIP 340 551.79 551.99 542.69 542.17 -12! 8 TO 7
43: HOL RAYMOND
44:
45: NEW FLORIDA/GILMORE LATERAL
46: SAN 11.2 14 3.6
47: SAN 18.0 14
48: PIP 168.8 576.28 575.05 569.52 568.32 -12! EE-32 TO 31
49: PIP 332.4 575.05 572.41 568.31 566.45 -12! 31 TO 30
50: SAN 9.9 14
51: PIP 330.7 572.41 571.28 566.46 564.66 -12! 30 TO 29
52: PIP 335.0 571.28 570.14 564.65 562.65 -12! 29 TO 28
53: PIP 328.1 570.14 568.11 562.65 560.66 -12! 28 TO 27
54: SAN 14.5 14
55: PIP 332.10 568.11 564.43 560.64 557.91 -12! 27 TO 26
56: PIP 330.07 564.43 561.44 557.86 555.0 -12! 26 TO 25
57: PIP 332.2 561.44 557.73 554.94 551.98 -12! 25 TO 24
58: SAN 10.7 14
59: SAN 12.4 14 2.5
60: PIP 327.3 557.73 555.48 551.97 548.88 -12! 24 TO 22
61: PIP 334.6 555.48 551.99 548.89 542.27 -12! 22 TO 7
62: SAN 9.5 14
63:
64: REC RAYMOND
65: PIP 341.1 551.99 549.27 542.22 541.81 -12! 7 TO 6
```

=====  
:\HYDRA\HEMET\LIN-EE.CMD

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66: PIP 317.8 549.27 547.0 541.79 541.33 -15! 6 TO 5  
67:  
68: REM BEGIN GILMORE  
69: PIP 400 547.0 548.0 541.24 541.06 -15! 5 TO 4  
70: SAN 10.2 14  
71: PIP 126.4 548.0 549.56 541.06 540.76 -15! 4 TO 3  
72: PIP 69.4 549.56 550.01 540.70 540.58 -15! 3 TO 2  
73: SAN 10.5 14  
74: PIP 280.10 550.01 551.50 540.52 540.44 -15! 2 TO 1  
75: PIP 14.5 551.50 551.33 540.38 540.14 -15! EE-1 TO E  
76: END

=====  
C:\HYDRA\HEMET\LIN-EE.CMD

8:45 22-May

----- S U M M A R Y     O F     A N A L Y S I S -----

Run number on command file :	2
Number of links :	27
Number of hydrographs :	80
Total sanitary population :	4030
Total sanitary area :	263.40 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	8672.48 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

C:\HYDRA\HEMET\LIN-EE.CMD

8:46 22-May-90

LINE EE AT GILMORE NEAR LATHAM

\*\*\* ACACIA/RAYMOND LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	331 10	560.91 558.95	0.0059	0.0 0.0	0.0 0.0	1.31 0.16	0.04	3.86 1.08		
2	332 10	558.95 556.52	0.0073	0.0 0.0	0.0 0.0	1.43 0.16	0.04	3.47 1.20		
3	663 10	556.52 549.33	0.0108	0.1 0.0	0.0 0.0	2.09 0.22	0.11	7.23 1.46		
4	331 10	549.33 546.86	0.0075	0.1 0.0	0.0 0.0	1.92 0.26	0.13	10.65 1.21		
5	331 10	546.86 544.37	0.0075	0.1 0.0	0.0 0.0	1.97 0.27	0.14	11.88 1.22		
6	660 12	544.37 543.90	0.0007	0.3 0.0	0.0 0.0	1.05 0.58	0.32	52.57 0.61		
7	336 12	543.86 543.30	0.0017	0.3 0.0	0.0 0.0	1.42 0.46	0.32	34.21 0.93		
8	301 12	543.30 543.10	0.0007	0.4 0.0	0.0 0.0	1.08 0.66	0.38	64.60 0.59		
9	346 12	543.09 542.72	0.0011	0.4 0.0	0.0 0.0	1.28 0.57	0.38	50.86 0.75		
10	340 12	542.69 542.17	0.0015	0.4 0.0	0.0 0.0	1.48 0.54	0.41	45.51 0.89		

Lateral length= 3972      Upstream length= 3972

\*\*\* FLORIDA/GILMORE LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
11	169 12	569.52 568.32	0.0071	0.1 0.0	0.0 0.0	1.58 0.16	0.07	3.42 1.93		
12	332 12	568.31 566.45	0.0056	0.1 0.0	0.0 0.0	1.44 0.16	0.07	3.85 1.71		

LINE EE AT GILMORE NEAR LATHAM

\*\*\* FLORIDA/GILMORE LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	& Cap Q Full	Remove	Par Rep
13	331	12	566.46 564.66	0.0054	0.1 0.0	0.0 0.0	1.54 0.19	0.09	5.23 1.69		
14	335	12	564.65 562.65	0.0060	0.1 0.0	0.0 0.0	1.59 0.18	0.09	4.99 1.77		
15	328	12	562.65 560.66	0.0061	0.1 0.0	0.0 0.0	1.60 0.18	0.09	4.95 1.78		
16	332	12	560.64 557.91	0.0082	0.1 0.0	0.0 0.0	1.95 0.20	0.12	5.83 2.07		
17	330	12	557.86 555.00	0.0087	0.1 0.0	0.0 0.0	1.99 0.19	0.12	5.68 2.13		
18	332	12	554.94 551.98	0.0089	0.1 0.0	0.0 0.0	2.00 0.19	0.12	5.60 2.16		
19	327	12	551.97 548.88	0.0094	0.2 0.0	0.0 0.0	2.25 0.23	0.17	7.78 2.22		
20	335	12	548.89 542.27	0.0198	0.2 0.0	0.0 0.0	2.95 0.19	0.17	5.37 3.21		
21	341	12	542.22 541.81	0.0012	0.6 0.0	0.0 0.0	1.53 0.73	0.60	75.78 0.79		
22	318	15	541.79 541.33	0.0014	0.6 0.0	0.0 0.0	1.58 0.49	0.60	38.01 1.58		
23	400	15	541.24 541.06	0.0005	0.6 0.0	0.0 0.0	1.05 0.68	0.60	68.05 0.88		
24	126	15	541.06 540.76	0.0024	0.6 0.0	0.0 0.0	1.90 0.43	0.62	30.67 2.02		
25	69	15	540.70 540.58	0.0017	0.6 0.0	0.0 0.0	1.70 0.47	0.62	35.90 1.72		
26	280	15	540.52 540.44	0.0003	0.6 0.0	0.0 0.0	0.91 0.84	0.64	91.67 0.70		
27	15	15	540.38 540.14	0.0166	0.6 0.0	0.0 0.0	3.83 0.27	0.64	11.99 5.33		

C:\HYDRA\HEMET\LIN-EE20.CMD

8:54 22-May-

Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LIN-EE20.CMD
Input units are read as      : USA
* Output sent to display    : Brief
* Output sent to printer    : Brief
* Output sent to file       : Off
Paper width in inches       : 8.000
String to reset printer     : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer             : Hewlett-Packard, LaserJet/LaserJet P
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes       : 15
Significant flow in hydrograph : 0.010
* Maximum plot value         : Selected by HYDRA
Type of hydrographic plot    : Compact

Sanitary flow by            : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations            : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe : 0.00 or Invert
* Number of allowable diam drops : 999
* Minimum drop thru manhole : 0.000
Routing technique           : Quick

* Calculate sanitary flows : True
* Calculate infiltration flows : True
* Calculate storm flows : True
* Calculate misc flows : True
```

```
-----
1: JOB LINE EE AT GILMORE NEAR LATHAM
2:
3: REM --- PIPE AND PIPE COST DATA ---
4: PDA .013 8 8 7.5 3 .004
5: CST 1.5 1 3/ .2 .5 .5 2.87 / .5 0 1.63 +
6:      1.15 / .89 1.1 1.43 4.78
7: EXC 0/.45 18/.45 30/1.12
8: TSL 0/0 6/0 6.001/.5 30/.5
9: PCO 8/2.78 10/4.10 18/9.16 36/18.23
10:
11: REM --- SANITARY CRITERIA ---
12: GPC 100
13:
```

=====

\HYDRA\HEMET\LIN-EE20.CMD

8:55 22-May-90

14: REM MODEL RUN FOR 2010 CONDITIONS  
15:  
16: NEW ACACIA/RAYMOND LATERAL  
17: REM USE DIURNAL CURVE FOR M.H.4  
18: DIU 7.16 4.99 3.59 2.14 2.69 9.89 11.55 14.98+  
19: 18.94 19.98 21.62 22.69 19.99 19.48 18.82 19.27+  
20: 20.22 18.15 19.04 16.87 13.98 13.13 10.62 8.43  
21: SAN 18.5 14  
22: PIP 331.4 569.51 567.28 560.91 558.95 -10! EE-21 TO 20  
23: PIP 331.6 567.28 564.12 558.95 556.52 -10! 20 TO 19  
24: SAN 12.2 37.4  
25: PIP 663.46 564.12 559.76 556.52 549.33 -10! 19,18,17  
26: SAN 10.4 14  
27: PIP 331.3 559.76 558.06 549.33 546.86 -10! 17 TO 16  
28: SAN 6.9 14  
29: PIP 331.1 558.06 555.0 546.86 544.37 -10! 16 TO 12  
30: SAN 33.7 14 1.9  
31: SAN 24.1 14 4.8  
32: SAN 6.5 14  
33: SAN 13.7 14 5.3  
34: PIP 659.85 555.0 548.71 544.37 543.90 -12! 12 TO 11  
35: REM BEGIN RAYMOND  
36: PIP 335.5 548.71 550.33 543.86 543.30 -12! 11 TO 10  
37: SAN 12.2 14  
38: SAN 6.2 37.4  
39: PIP 301.3 550.33 551.06 543.30 543.10 -12! 10 TO 9  
40: PIP 346.4 551.06 551.79 543.09 542.72 -12! 9 TO 8  
41: SAN 12.1 14  
42: PIP 340 551.79 551.99 542.69 542.17 -12! 8 TO 7  
43: HOL RAYMOND  
44:  
45: NEW FLORIDA/GILMORE LATERAL  
46: SAN 11.2 14 3.6  
47: SAN 18.0 14  
48: PIP 168.8 576.28 575.05 569.52 568.32 -12! EE-32 TO 31  
49: PIP 332.4 575.05 572.41 568.31 566.45 -12! 31 TO 30  
50: SAN 9.9 14  
51: PIP 330.7 572.41 571.28 566.46 564.66 -12! 30 TO 29  
52: PIP 335.0 571.28 570.14 564.65 562.65 -12! 29 TO 28  
53: PIP 328.1 570.14 568.11 562.65 560.66 -12! 28 TO 27  
54: SAN 14.5 14  
55: PIP 332.10 568.11 564.43 560.64 557.91 -12! 27 TO 26  
56: PIP 330.07 564.43 561.44 557.86 555.0 -12! 26 TO 25  
57: PIP 332.2 561.44 557.73 554.94 551.98 -12! 25 TO 24  
58: SAN 10.7 14  
59: SAN 12.4 14 2.5  
60: PIP 327.3 557.73 555.48 551.97 548.88 -12! 24 TO 22  
61: PIP 334.6 555.48 551.99 548.89 542.27 -12! 22 TO 7  
62: SAN 9.5 14  
63:  
64: REC RAYMOND  
65: PIP 341.1 551.99 549.27 542.22 541.81 -12! 7 TO 6

=====  
C:\HYDRA\HEMET\LIN-EE20.CMD

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66: PIP 317.8 549.27 547.0 541.79 541.33 -15! 6 TO 5  
67:  
68: REM BEGIN GILMORE  
69: PIP 400 547.0 548.0 541.24 541.06 -15! 5 TO 4  
70: SAN 10.2 14  
71: PIP 126.4 548.0 549.56 541.06 540.76 -15! 4 TO 3  
72: PIP 69.4 549.56 550.01 540.70 540.58 -15! 3 TO 2  
73: SAN 10.5 14  
74: PIP 280.10 550.01 551.50 540.52 540.44 -15! 2 TO 1  
75: PIP 14.5 551.50 551.33 540.38 540.14 -15! EE-1 TO E  
76: END

-----  
C:\HYDRA\HEMET\LIN-EE20.CMD

8:55 22-May-90

----- S U M M A R Y    O F    A N A L Y S I S -----

Run number on command file :	1
Number of links :	27
Number of hydrographs :	80
Total sanitary population :	4118
Total sanitary area :	263.40 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	8672.48 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

C:\HYDRA\HEMET\LIN-EE20.CMD

8:57 22-May-

LINE EE AT GILMORE NEAR LATHAM

\*\*\* ACACIA/RAYMOND LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	331 10	560.91 558.95	0.0059	0.0 0.0	0.0 0.0	1.31 0.16	0.04	3.86 1.08		
2	332 10	558.95 556.52	0.0073	0.0 0.0	0.0 0.0	1.43 0.16	0.04	3.47 1.20		
3	663 10	556.52 549.33	0.0108	0.1 0.0	0.0 0.0	2.14 0.23	0.12	7.87 1.46		
4	331 10	549.33 546.86	0.0075	0.1 0.0	0.0 0.0	1.94 0.27	0.14	11.43 1.21		
5	331 10	546.86 544.37	0.0075	0.2 0.0	0.0 0.0	2.00 0.28	0.15	12.65 1.22		
6	660 12	544.37 543.90	0.0007	0.3 0.0	0.0 0.0	1.06 0.59	0.33	54.12 0.61		
7	336 12	543.86 543.30	0.0017	0.3 0.0	0.0 0.0	1.43 0.47	0.33	35.35 0.93		
8	301 12	543.30 543.10	0.0007	0.4 0.0	0.0 0.0	1.10 0.68	0.39	67.01 0.59		
9	346 12	543.09 542.72	0.0011	0.4 0.0	0.0 0.0	1.29 0.58	0.39	52.77 0.75		
10	340 12	542.69 542.17	0.0015	0.4 0.0	0.0 0.0	1.49 0.55	0.42	47.10 0.89		

-----  
 Lateral length= 3972                      Upstream length= 3972

\*\*\* FLORIDA/GILMORE LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
11	169 12	569.52 568.32	0.0071	0.1 0.0	0.0 0.0	1.58 0.16	0.07	3.42 1.93		
12	332 12	568.31 566.45	0.0056	0.1 0.0	0.0 0.0	1.44 0.16	0.07	3.85 1.71		

C:\HYDRA\HEMET\LIN-EE20.CMD

8:57 22-May-90

LINE EE AT GILMORE NEAR LATHAM

\*\*\* FLORIDA/GILMORE LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
13	331	12	566.46 564.66	0.0054	0.1 0.0	0.0 0.0	1.54 0.19	0.09	5.23 1.69		
14	335	12	564.65 562.65	0.0060	0.1 0.0	0.0 0.0	1.59 0.18	0.09	4.99 1.77		
15	328	12	562.65 560.66	0.0061	0.1 0.0	0.0 0.0	1.60 0.18	0.09	4.95 1.78		
16	332	12	560.64 557.91	0.0082	0.1 0.0	0.0 0.0	1.95 0.20	0.12	5.83 2.07		
17	330	12	557.86 555.00	0.0087	0.1 0.0	0.0 0.0	1.99 0.19	0.12	5.68 2.13		
18	332	12	554.94 551.98	0.0089	0.1 0.0	0.0 0.0	2.00 0.19	0.12	5.60 2.16		
19	327	12	551.97 548.88	0.0094	0.2 0.0	0.0 0.0	2.25 0.23	0.17	7.78 2.22		
20	335	12	548.89 542.27	0.0198	0.2 0.0	0.0 0.0	2.95 0.19	0.17	5.37 3.21		
21	341	12	542.22 541.81	0.0012	0.6 0.0	0.0 0.0	1.54 0.74	0.61	77.57 0.79		
22	318	15	541.79 541.33	0.0014	0.6 0.0	0.0 0.0	1.59 0.49	0.61	38.91 1.58		
23	400	15	541.24 541.06	0.0005	0.6 0.0	0.0 0.0	1.06 0.69	0.61	69.66 0.88		
24	126	15	541.06 540.76	0.0024	0.6 0.0	0.0 0.0	1.91 0.44	0.63	31.37 2.02		
25	69	15	540.70 540.58	0.0017	0.6 0.0	0.0 0.0	1.71 0.48	0.63	36.72 1.72		
26	280	15	540.52 540.44	0.0003	0.7 0.0	0.0 0.0	0.91 0.85	0.66	93.69 0.70		
27	15	15	540.38 540.14	0.0166	0.7 0.0	0.0 0.0	3.85 0.27	0.65	12.26 5.33		

-----  
\\HYDRA\HEMET\LIN-K120.CMD

9:02 22-May-90

Status of DEFAULTS at start of run. ( \* May be reset by SET)

Command file : C:\HYDRA\HEMET\LIN-K120.CMD  
Input units are read as : USA  
\* Output sent to display : Brief  
\* Output sent to printer : Brief  
\* Output sent to file : Off  
Paper width in inches : 8.000  
String to reset printer : 27 38 108 54 68 27 40 115 49 48 72  
String to set printer to compressed : 17.16 27 38 107 48 56 72  
String to set printer to 8 lines/inch : 8 27 38 108 56 68  
Name of printer : Hewlett-Packard, LaserJet/LaserJet P  
Print heading at top of page : True  
  
Number of steps in hydrograph : 96  
Step length in minutes : 15  
Significant flow in hydrograph : 0.010  
\* Maximum plot value : Selected by HYDRA  
Type of hydrographic plot : Compact  
  
Sanitary flow by : Diurnal Curve  
Delay to start of actual storm : 0.00  
Rational Method computations : Off  
SCS computations : Santa Barbara  
Continuous simulation computations : On  
  
\* Maximum d/D for pipe design/analysis : 0.900  
\* Match point position on pipe : 0.00 or Invert  
\* Number of allowable diam drops : 999  
\* Minimum drop thru manhole : 0.000  
Routing technique : Quick  
  
\* Calculate sanitary flows : True  
\* Calculate infiltration flows : True  
\* Calculate storm flows : True  
\* Calculate misc flows : True

-----  
1: JOB LINE K1 AT STETSON & SEVEN HILLS DRIVE  
2:  
3: REM --- PIPE AND PIPE COST DATA ---  
4: PDA .013 8 8 7.5 3 .004  
5: CST 1.5 1 3 / .2 .5 .5 2.87 / .5 0 1.63+  
6: 1.15 / .89 1.1 1.43 4.78  
7: EXC 0/.45 18/.45 30/1.12  
8: TSL 0/0 6/0 6.001/.5 30/.5  
9: PCO 8/2.78 10/4.10 18/9.16 36/18.23  
10: REM --- SANITARY CRITERIA ---  
11: GFC 100  
12: REM THIS MODEL RUN FOR 2010 CONDITIONS  
13: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.5 (R-1)

=====  
C:\HYDRA\HEMET\LIN-K120.CMD

9:02 22-May-90

14: NEW SEVEN HILLS DRIVE SEWER  
15: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 +  
16: 167.55 166.67 156.81 134.83 138.13 141.07 118.64 131.29 +  
17: 139.26 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
18: REM BEGIN AT SEVEN HILLS DRIVE & BEECH TREE ST.  
19: SAN 9.6 37.4 3.9  
20: SAN 19.8 15.4  
21: SAN 19.2 37.4 4.4  
22: PIP 335.4 536.0 535.23 530.17 528.88 -10! K1-55 TO 54  
23: PIP 336 535.23 535.67 528.88 527.59 -10! K1-54 TO 53  
24: SAN 20.8 0.0 ! ZONED OS (OPEN SPACE)  
25: PIP 246 535.67 535.7 527.59 526.22 -10! 53 TO 45  
26: PIP 246 535.7 538.0 526.22 525.13 -10! 45 TO 44  
27:  
28: SAN 3.4 15.4  
29: PIP 345 538.0 538.0 525.13 523.57 -10! 44 TO 43  
30: PIP 250 538.0 538.1 523.57 522.57 -12! 43 TO 34  
31: SAN 10.7 37.4  
32: SAN 5.0 15.4 1.4  
33: SAN 4.0 15.4 3.6  
34: PIP 270 538.11 537.27 522.57 521.48 -12! 34 TO 27  
35:  
36: SAN 10.2 15.4 6.1  
37: PIP 173.5 537.27 536.0 521.48 520.29 -12! 27 TO 26  
38: PIP 301.0 536.0 535.2 520.29 519.08 -12! 26 TO 25  
39:  
40: SAN 6.5 37.4  
41: PIP 230.6 535.2 534.34 519.08 518.16 -12! 25 TO 3  
42:  
43: REM BELOW TRIBUTARY AREAS WEST OF 7-HILLS DRIVE  
44:  
45: SAN 6.6 28.0 1TR-20  
46: SAN 13.4 28.0 5.0! TR-20  
47: SAN 12.5 28.0 7.2! TR-20  
48:  
49: REM TRIBUTARY AREAS EAST OF 7-HILLS DRIVE  
50: SAN 7.9 15.4 1.5  
51: SAN 6.8 15.4 6.2  
52: SAN 5.1 15.4 11.0  
53: SAN 10.9 15.4 3.3  
54: SAN 8.2 15.4 9.4  
55: SAN 8.1 15.4 15.3  
56: SAN 3.8 15.4 10.7  
57: SAN 2.7 15.4 14.9  
58: SAN 4.4 15.4 13.4  
59: SAN 4.9 15.4 15.6  
60: SAN 3.4 15.4 22.0  
61: PIP 276.2 534.34 533.89 518.16 517.06 -12! K1-3 TO K1-2  
62: PIP 260.1 533.89 534.0 517.06 516.02 -15! K1-2 TO K1-1  
63: SAN 2.5 37.4  
64: PIP 105.4 534.0 535.0 516.02 515.05 -15! K1-1 TO K1  
65: END

-----  
\\HYDRA\HEMET\LIN-K120.CMD

9:03 22-May-90

----- S U M M A R Y     O F     A N A L Y S I S -----

Run number on command file :	1
Number of links :	13
Number of hydrographs :	52
Total sanitary population :	4396
Total sanitary area :	210.40 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	3375.20 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

C:\HYDRA\HEMET\LIN-K120.CMD

9:03 22-May-99

LINE K1 AT STETSON & SEVEN HILLS DRIVE

\*\*\* SEVEN HILLS DRIVE SEWER

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	335 10	530.17 528.88	0.0038	0.2 0.0	0.0 0.0	1.69 0.37	0.20	23.10 0.87		
2	336 10	528.88 527.59	0.0038	0.2 0.0	0.0 0.0	1.69 0.37	0.20	23.12 0.87		
3	246 10	527.59 526.22	0.0056	0.2 0.0	0.0 0.0	1.91 0.33	0.20	19.20 1.05		
4	246 10	526.22 525.13	0.0044	0.2 0.0	0.0 0.0	1.77 0.35	0.20	21.52 0.94		
5	345 10	525.13 523.57	0.0045	0.2 0.0	0.0 0.0	1.80 0.36	0.21	22.11 0.94		
6	250 12	523.57 522.57	0.0040	0.2 0.0	0.0 0.0	1.70 0.29	0.21	14.46 1.45		
7	270 12	522.57 521.48	0.0040	0.3 0.0	0.0 0.0	1.86 0.34	0.29	19.79 1.45		
8	174 12	521.48 520.29	0.0069	0.3 0.0	0.0 0.0	2.29 0.31	0.31	16.38 1.89		
9	301 12	520.29 519.08	0.0040	0.3 0.0	0.0 0.0	1.90 0.35	0.31	21.39 1.45		
10	231 12	519.08 518.16	0.0040	0.3 0.0	0.0 0.0	1.97 0.38	0.35	23.91 1.44		
11	276 12	518.16 517.06	0.0040	0.6 0.0	0.0 0.0	2.35 0.52	0.63	43.41 1.44		
12	260 15	517.06 516.02	0.0040	0.6 0.0	0.0 0.0	2.28 0.38	0.63	23.88 2.62		
13	105 15	516.02 515.05	0.0092	0.6 0.0	0.0 0.0	3.07 0.31	0.64	16.08 3.97		

-----  
 Lateral length= 3375                      Upstream length= 3375

-----  
:\HYDRA\HEMET\LINE-G.CMD

9:03 22-May-90

Status of DEFAULTS at start of run. ( \* May be reset by SET)

Command file : C:\HYDRA\HEMET\LINE-G.CMD  
Input units are read as : USA  
\* Output sent to display : Brief  
\* Output sent to printer : Brief  
\* Output sent to file : Off  
Paper width in inches : 8.000  
String to reset printer : 27 38 108 54 68 27 40 115 49 48 72  
String to set printer to compressed : 17.16 27 38 107 48 56 72  
String to set printer to 8 lines/inch : 8 27 38 108 56 68  
Name of printer : Hewlett-Packard, LaserJet/LaserJet F  
Print heading at top of page : True  
  
Number of steps in hydrograph : 96  
Step length in minutes : 15  
Significant flow in hydrograph : 0.010  
\* Maximum plot value : Selected by HYDRA  
Type of hydrographic plot : Compact  
  
Sanitary flow by : Diurnal Curve  
Delay to start of actual storm : 0.00  
Rational Method computations : Off  
SCS computations : Santa Barbara  
Continuous simulation computations : On  
  
\* Maximum d/D for pipe design/analysis : 0.900  
\* Match point position on pipe : 0.00 or Invert  
\* Number of allowable diam drops : 999  
\* Minimum drop thru manhole : 0.000  
Routing technique : Quick  
  
\* Calculate sanitary flows : True  
\* Calculate infiltration flows : True  
\* Calculate storm flows : True  
\* Calculate misc flows : True

-----  
1: JOB LINE G AT DEVONSHIRE & GILMORE  
2:  
3: REM --- PIPE AND PIPE COST DATA ---  
4: PDA .013 8 8 7.5 3 .004  
5: CST 1.5 1 3/.2 .5 .5 2.87 / .5 0 1.63+  
6: 1.15 / .89 1.1 1.43 4.78  
7: EXC 0/.45 18/ .45 30/1.12  
8: TSL 0/0 6/0 6.001/.5 30/.5  
9: PCO 8/2.78 10/4.10 18/9.16 36/18.23  
10:  
11: REM --- SANITARY CRITERIA ---  
12: GPC 100  
13:

=====  
C:\HYDRA\HEMET\LINE-G.CMD

9:03 22-May

```
14: REM MODEL RUN FOR 1990 CONDITIONS
15:
16: NEW DEVONSHIRE TRUNK
17: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.5 (R-1)
18: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 167.55+
19:      166.67 156.81 134.83 138.13 141.07 118.64 131.29 139.26+
20:      156.17 155.95 143.65 127.75 104.19 87.91 67.28
21: SAN 9.0 13.4 1.8
22: SAN 6.4 27.4 1.8
23: SAN 7.3 23.7
24: SAN 9.7 32.6 4.3
25: SAN 7.4 32.6 4.3
26: PIP 314 573.8 572.0 566.46 564.69 -8! G20 TO G19
27: SAN 7.3 23.7
28: PIP 195 572.0 569.5 564.69 561.87 -8! 19 TO 18
29: SAN 3.96 32.6
30: PIP 149 569.5 568.58 561.87 559.71 -8! 18 TO 17
31: SAN 3.96 32.6
32: PIP 14.9 568.58 568.2 559.71 559.61 -8! 17 TO 16
33: SAN 8.0 30.3
34: PIP 332 568.2 565.2 559.61 557.49 -8! 16 TO 15
35: SAN 5.9 31.1
36: PIP 346 565.2 563.5 557.49 555.27 -8! 15 TO 14
37: SAN 7.2 32.6
38: SAN 10.5 32.6 3.5
39: PIP 338 563.50 562.25 555.27 553.92 -8! 14 TO 13
40: SAN 10.9 31.6
41: PIP 322.5 562.25 561.58 553.92 552.63 -8! 13 TO 12
42: PIP 322.5 561.58 560 552.63 551.34 -8! 12 TO 11
43: SAN 2.9 7.7
44: PIP 335 560 559 551.34 550 -8! 11 TO 10
45: PIP 286 559 558.73 550 547.29 -8! 10 TO 9
46: SAN 7.2 7.7
47: PIP 251 558.73 557.42 547.16 546.28 -8! 9 TO 8
48: SAN 1.6 12.8
49: PIP 351 557.42 555.18 546.25 544.75 -8! 8 TO 7
50: SAN 1.6 12.8
51: PIP 349 555.18 552.9 544.74 543.37 -8! 7 TO 6
52: SAN 1.6 12.8
53: PIP 310.7 552.9 550.8 543.35 541.44 -8! 6 TO 2
54: SAN 3.8 12.8
55: PIP 36.1 550.8 550.49 541.41 541.11 -8! 2 TO 1
56: PIP 83.5 550.49 549.83 541.1 539.41 -8! G-1 TO G
57: END
```

\\HYDRA\HEMET\LINE-G.CMD

9:04 22-May-90

----- S U M M A R Y    O F    A N A L Y S I S -----

Run number on command file :	1
Number of links :	17
Number of hydrographs :	60
Total sanitary population :	2993
Total sanitary area :	116.22 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	4336.20 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

C:\HYDRA\HEMET\LINE-G.CMD

9:04 22-May-

LINE G AT DEVONSHIRE & GILMORE

\*\*\* DEVONSHIRE TRUNK

Analysis of Existing Pipes

Link	Long Diam		Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	314	8	566.46 564.69	0.0056	0.1 0.0	0.0 0.0	1.83 0.39	0.15	25.70 0.58		
2	195	8	564.69 561.87	0.0145	0.2 0.0	0.0 0.0	2.64 0.33	0.17	18.75 0.93		
3	149	8	561.87 559.71	0.0145	0.2 0.0	0.0 0.0	2.73 0.35	0.19	20.74 0.93		
4	15	8	559.71 559.61	0.0067	0.2 0.0	0.0 0.0	2.15 0.45	0.21	33.45 0.63		
5	332	8	559.61 557.49	0.0064	0.2 0.0	0.0 0.0	2.22 0.50	0.25	39.99 0.62		
6	346	8	557.49 555.27	0.0064	0.3 0.0	0.0 0.0	2.29 0.53	0.27	44.20 0.62		
7	338	8	555.27 553.92	0.0040	0.4 0.0	0.0 0.0	2.11 0.72	0.36	73.19 0.49		
8	323	8	553.92 552.63	0.0040	0.4 0.0	0.0 0.0	2.19 0.78	0.41	83.37 0.49		
9	323	8	552.63 551.34	0.0040	0.4 0.0	0.0 0.0	2.19 0.78	0.41	83.37 0.49		
10	335	8	551.34 550.00	0.0040	0.4 0.0	0.0 0.0	2.19 0.78	0.41	84.04 0.49		
11	286	8	550.00 547.29	0.0095	0.4 0.0	0.0 0.0	2.97 0.59	0.41	54.60 0.75		
12	251	8	547.16 546.28	0.0035	0.4 0.0	0.0 0.0	2.10 0.84	0.42	91.48 0.46		
13	351	8	546.25 544.75	0.0043	0.4 0.0	0.0 0.0	2.26 0.78	0.42	83.41 0.51		
14	349	8	544.74 543.37	0.0039	0.4 0.0	0.0 0.0	2.20 0.81	0.42	87.52 0.49		
15	311	8	543.35 541.44	0.0061	0.4 0.0	0.0 0.0	2.58 0.70	0.43	70.29 0.61		

C:\HYDRA\HEMET\LINE-G.CMD

9:04 22-May-90

LINE G AT DEVONSHIRE & GILMORE

\*\*\* DEVONSHIRE TRUNK

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
16	36	8	541.41 541.11	0.0083	0.4 0.0	0.0 0.64	2.88 0.43	61.43 0.71		
17	84	8	541.10 539.41	0.0202	0.4 0.0	3.93 0.50	0.43	39.36 1.10		
-----				Lateral length=		4336	Upstream length=		4336	

=====  
C:\HYDRA\HEMET\LINE-G20.CMD

9:05 22-May

Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINE-G20.CMD
Input units are read as      : USA
* Output sent to display    : Brief
* Output sent to printer    : Brief
* Output sent to file       : Off
Paper width in inches       : 8.000
String to reset printer     : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer             : Hewlett-Packard, LaserJet/LaserJet P
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes       : 15
Significant flow in hydrograph : 0.010
* Maximum plot value         : Selected by HYDRA
Type of hydrographic plot    : Compact

Sanitary flow by            : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations            : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe : 0.00 or Invert
* Number of allowable diam drops : 999
* Minimum drop thru manhole : 0.000
Routing technique           : Quick

* Calculate sanitary flows : True
* Calculate infiltration flows : True
* Calculate storm flows : True
* Calculate misc flows : True
```

```
-----
1: JOB LINE G AT DEVONSHIRE & GILMORE
2:
3: REM --- PIPE AND PIPE COST DATA ---
4: PDA .013 8 8 7.5 3 .004
5: CST 1.5 1 3/.2 .5 .5 2.87 / .5 0 1.63+
6:      1.15 / .89 1.1 1.43 4.78
7: EXC 0/.45 18/ .45 30/1.12
8: TSL 0/0 6/0 6.001/.5 30/.5
9: PCO 8/2.78 10/4.10 18/9.16 36/18.23
10:
11: REM --- SANITARY CRITERIA ---
12: GPC 100
13:
```

C:\HYDRA\HEMET\LINE-G20.CMD

9:05 22-May-90

```
14: REM MODEL RUN FOR 2010 CONDITIONS
15:
16: NEW DEVONSHIRE TRUNK
17: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.5 (R-1)
18: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 167.55+
19:      166.67 156.81 134.83 138.13 141.07 118.64 131.29 139.26+
20:      156.17 155.95 143.65 127.75 104.19 87.91 67.28
21: SAN 9.0 15.4 1.8
22: SAN 6.4 31.4 1.8
23: SAN 7.3 31.5
24: SAN 9.7 37.4 4.3
25: SAN 7.4 37.4 4.3
26: PIP 314 573.8 572.0 566.46 564.69 -8! G20 TO G19
27: SAN 7.3 31.5
28: PIP 195 572.0 569.5 564.69 561.87 -8! 19 TO 18
29: SAN 3.96 37.4
30: PIP 149 569.5 568.58 561.87 559.71 -8! 18 TO 17
31: SAN 3.96 37.4
32: PIP 14.9 568.58 568.2 559.71 559.61 -8! 17 TO 16
33: SAN 8.0 37.4
34: PIP 332 568.2 565.2 559.61 557.49 -8! 16 TO 15
35: SAN 5.9 37.4
36: PIP 346 565.2 563.5 557.49 555.27 -8! 15 TO 14
37: SAN 7.2 37.4
38: SAN 10.5 37.4 3.5
39: PIP 338 563.50 562.25 555.27 553.92 -8! 14 TO 13
40: SAN 10.9 37.4
41: PIP 322.5 562.25 561.58 553.92 552.63 -8! 13 TO 12
42: PIP 322.5 561.58 560 552.63 551.34 -8! 12 TO 11
43: SAN 2.9 8.8
44: PIP 335 560 559 551.34 550 -8! 11 TO 10
45: PIP 286 559 558.73 550 547.29 -8! 10 TO 9
46: SAN 7.2 8.8
47: PIP 251 558.73 557.42 547.16 546.28 -8! 9 TO 8
48: SAN 1.6 15.4
49: PIP 351 557.42 555.18 546.25 544.75 -8! 8 TO 7
50: SAN 1.6 15.4
51: PIP 349 555.18 552.9 544.74 543.37 -8! 7 TO 6
52: SAN 1.6 15.4
53: PIP 310.7 552.9 550.8 543.35 541.44 -8! 6 TO 2
54: SAN 3.8 15.4
55: PIP 36.1 550.8 550.49 541.41 541.11 -8! 2 TO 1
56: PIP 83.5 550.49 549.83 541.1 539.41 -8! G-1 TO G
57: END
```

C:\HYDRA\HEMET\LINE-G20.CMD

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----- S U M M A R Y    O F    A N A L Y S I S -----

Run number on command file :	1
Number of links :	17
Number of hydrographs :	60
Total sanitary population :	3546
Total sanitary area :	116.22 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	4336.20 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

C:\HYDRA\HEMET\LINE-G20.CMD

9:06 22-May-90

LINE G AT DEVONSHIRE & GILMORE

\*\*\* DEVONSHIRE TRUNK

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	314	8 566.46 564.69	0.0056	0.2 0.0	0.0 0.0	1.92 0.43	0.18	30.27 0.58		
2	195	8 564.69 561.87	0.0145	0.2 0.0	0.0 0.0	2.80 0.36	0.21	22.49 0.93		
3	149	8 561.87 559.71	0.0145	0.2 0.0	0.0 0.0	2.90 0.38	0.23	24.78 0.93		
4	15	8 559.71 559.61	0.0067	0.3 0.0	0.0 0.0	2.27 0.50	0.25	39.82 0.63		
5	332	8 559.61 557.49	0.0064	0.3 0.0	0.0 0.0	2.34 0.55	0.30	47.86 0.62		
6	346	8 557.49 555.27	0.0064	0.3 0.0	0.0 0.0	2.42 0.58	0.33	52.92 0.62		
7	338	8 555.27 553.92	0.0040	0.4 0.0	0.0 0.0	2.21 0.80	0.42	86.77 0.49		
8	323	8 553.92 552.63	0.0040	0.5 0.0	0.0 0.0	2.28 0.90	0.48	98.82 0.49		
9	323	8 552.63 551.34	0.0040	0.5 0.0	0.0 0.0	2.28 0.90	0.48	98.82 0.49		
10	335	8 551.34 550.00	0.0040	0.5 0.0	0.0 0.0	2.28 0.91	0.49	99.58 0.49		
11	286	8 550.00 547.29	0.0095	0.5 0.0	0.0 0.0	3.13 0.66	0.49	64.70 0.75		
12	251	8 547.16 546.28	0.0035	0.5 0.0	0.0 0.0	2.13 0.90	0.50	108.33 0.46	0.04	8 10
13	351	8 546.25 544.75	0.0043	0.5 0.0	0.0 0.0	2.35 0.90	0.50	98.78 0.51		
14	349	8 544.74 543.37	0.0039	0.5 0.0	0.0 0.0	2.26 0.90	0.50	103.74 0.49	0.02	8 10
15	311	8 543.35 541.44	0.0061	0.5 0.0	0.0 0.0	2.71 0.78	0.51	83.38 0.61		

C:\HYDRA\HEMET\LINE-G20.CMD

9:07 22-May-

LINE G AT DEVONSHIRE & GILMORE

\*\*\* DEVONSHIRE TRUNK

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
16	36	8 541.41	0.0083	0.5	0.0	3.03	0.51	72.81		
		541.11		0.0	0.0	0.71		0.71		
17	84	8 541.10	0.0202	0.5	0.0	4.13	0.51	46.65		
		539.41		0.0	0.0	0.54		1.10		
-----				Lateral length= 4336		Upstream length=		4336		

-----  
\\HYDRA\HEMET\LINE-K.CMD

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Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINE-K.CMD
Input units are read as      : USA
* Output sent to display    : Brief
* Output sent to printer    : Brief
* Output sent to file       : Off
Paper width in inches       : 8.000
String to reset printer     : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer             : Hewlett-Packard, LaserJet/LaserJet P
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes       : 15
Significant flow in hydrograph : 0.010
* Maximum plot value         : Selected by HYDRA
Type of hydrographic plot    : Compact

Sanitary flow by            : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations            : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe : 0.00 or Invert
* Number of allowable diam drops : 999
* Mimimum drop thru manhole : 0.000
Routing technique           : Quick

* Calculate sanitary flows : True
* Calculate infiltration flows : True
* Calculate storm flows : True
* Calculate misc flows : True
```

-----  
1: JOB LINE K AT STETSON AND KIRBY  
2: REM --- PIPE AND PIPE COST DATA ---  
3: PDA .013 8 8 7.5 3 .004  
4: CST 1.5 1 3 / .2 .5 .5 2.87 / .5 0 1.63 +  
5: 1.15 / .89 1.1 1.43 4.78  
6: EXC 0/.45 18/.45 30/1.12  
7: TSL 0/0 6/0 6.001/.5 30/.5  
8: PCO 8/2.78 10/4.10 18/9.16 36/18.23  
9: REM --- SANITARY CRITERIA ---  
10: GPC 100  
11: REM THIS MODEL RUN FOR 1990 CONDITIONS  
12: REM BEGIN AT JOHNSTON & SANTA FE  
13: REM USE M.H.5 DIURNAL CURVE

C:\HYDRA\HEMET\LINE-K.CMD

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```
14: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 167.55 +
15:      166.67 156.81 134.83 138.13 141.07 118.64 131.29 139.26 +
16:      156.17 155.95 143.65 127.75 104.19 87.91 67.28
17: NEW JOHNSTON LATERAL
18: SAN 9.9 13.4 3.3
19: SAN 9.8 13.4 5.6
20: PIP 264 612.65 610.08 605.59 604.36 -81 K-381 TO 430
21: SAN 3.9 13.4
22: PIP 280 610.08 608.96 604.36 603.45 -81 430 TO 429
23: PIP 100 608.96 607.59 603.45 602.39 -81 429 TO 428
24: SAN 11.1 10.8
25: PIP 300 607.59 605.60 602.39 599.36 -81 428 TO 426
26: SAN 10.1 10.8
27: PIP 412 605.60 603.96 599.36 592.55 -81 426 TO 348
28: SAN 8.9 10.8
29: SAN 4.5 14
30: SAN 4.7 14 4.4
31: SAN 8.6 10.8 5.6
32: PIP 326.7 603.96 600.98 592.55 590.63 -101 348 TO 341
33: SAN 2.3 32.3
34: PIP 652.0 600.98 595.00 590.63 586.8 -101 341 TO 339
35: SAN 18.7 10.8
36: PIP 487.62 595.0 592.6 586.8 584.76 -101 339 TO 332
37: SAN 7.1 14
38: PIP 543 592.6 587.50 584.76 580.63 -101 332 TO 335
39: SAN 2.3 13.3
40: SAN 2.3 32.3
41: PIP 543 587.50 582.90 580.63 576.47 -101 335 TO 338
42: SAN 2.2 13.3
43: SAN 2.2 32.3
44: PIP 193.63 582.9 581.6 576.47 574.82 -101 338 TO 278
45: PIP 318.47 581.6 582.1 574.82 574.01 -121 278 TO 281
46: HOL JOHNSTON
47: NEW GILBERT LATERAL SEWER
48: SAN 2.9 13.3 1 M.H.#5
49: REC JOHNSTON
50: PIP 318.47 582.1 582.72 574.01 573.21 -121 281 TO 291
51:
52: SAN 16.5 13.4 3.9
53: PIP 333.47 582.72 582.5 573.21 572.36 -121 291 TO 286
54: SAN 2.9 13.3
55: PIP 333.46 582.5 582.2 572.36 571.29 -121 286 TO 287
56: HOL GILBERT
57:
58: NEW WHITTIER LATERAL
59: SAN 4.4 13.4
60: PIP 58.84 603.32 602.50 596.17 595.70 -81 436 TO 437
61: SAN 6.6 10.8
62: PIP 271.13 602.50 599.38 602.50 593.04 -81 437 TO 438
63: SAN 4.4 13.4
64: PIP 636.39 599.38 594.81 592.85 586.54 -81 438 TO 440
65: SAN 8.8 5.7 1 CHURCH - ASSUME EQUIV. TO 50 PEOPLE
```

=====  
C:\HYDRA\HEMET\LINE-K.CMD

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66: SAN 11.6 13.4  
67: PIP 48.65 594.81 594.48 586.37 586.22 -8! 440 TO 442  
68: SAN 3.8 13.4  
69: PIP 675.3 594.48 587.56 586.22 580.52 -8! 442 TO 312  
70: SAN 6.7 13.4  
71: SAN 10.0 13.1 ! WHITTIER ELEM SCH - FROM M&E  
72: PIP 326 587.56 584.85 580.52 577.57 -8! 312 TO 311  
73: PIP 326 584.85 582.35 577.57 571.73 -8! 311 TO 287  
74: REC GILBERT  
75: PIP 329.4 582.35 578.32 571.73 568.69 -12! 287 TO 288  
76: PIP 220 578.32 576.46 568.69 567.02 -12! 288 TO 290  
77: SAN 10.5 13.4  
78: PIP 109 576.46 575.40 567.02 566.09 -12! 290 TO 292  
79: SAN 9.0 13.4  
80: PIP 329 575.40 572.89 566.09 563.49 -12! 292 TO 309  
81: PIP 329 572.89 569.0 563.49 560.93 -12! 309 TO 308  
82: SAN 22.5 17.9  
83: SAN 6.9 13.3 11.9  
84: PIP 111 569.0 567.82 560.93 560.0 -12! 308 TO 136  
85: SAN 5.4 19.2  
86: PIP 250 567.82 564.0 560.0 556.45 -12! 136 TO 135  
87: SAN 5.3 19.2  
88: PIP 70 564.0 562.96 556.45 555.45 -12! 135 TO 134  
89: SAN 4.7 32.6  
90: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.2 (R-A)  
91: DIU 77.49 64.76 57.03 54.49 60.76 85.05 156.93 223.39 +  
92: 233.45 238.6 224.07 204.05 182.09 172.48 170.59 158.67 +  
93: 172 187.58 199.57 195.87 179.75 155.25 129.62 108.13  
94: PIP 550 562.96 561.4 555.45 553.77 -12! 134 TO 133  
95: PIP 268 561.4 559.52 553.77 551.75 -12! 133 TO 127 (M.H.2)  
96: SAN 10.4 19.2  
97: SAN 9.2 19.2 4.4  
98: SAN 8.0 19.2 5.6  
99: PIP 213 559.52 558.71 551.75 550.84 -12! 127 TO 114  
100: PIP 331.2 558.71 556.62 550.84 549.78 -12! 114 TO 113  
101: PIP 326 556.62 553.89 549.78 548.69 -12! 113 TO 112  
102: PIP 326 553.89 551.56 548.69 547.60 -12! 112 TO 111  
103: PIP 326 551.56 549.62 547.60 546.50 -12! 111 TO 105  
104: HOL WHITTIER  
105: NEW LYON EAST LATERAL  
106: REC WHITTIER  
107: PIP 326 549.62 549.60 546.50 545.97 -15! 105 TO 569  
108: SAN 7.0 7.7  
109: SAN 9.2 7.7 3.9  
110: PIP 326 549.6 549.35 545.97 545.44 -15! 569 TO 532  
111: SAN 4.7 7.7  
112: SAN 6.2 7.7 3.2  
113: SAN 6.4 7.7 6.6  
114: SAN 6.3 7.7 7.7  
115: SAN 10.1 7.7 10.4  
116: SAN 13.6 7.7 11.6  
117: SAN 16.6 32.6 16.0

=====  
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118: PIP 326 549.35 549.89 545.44 544.91 -15! 532 TO 534  
119: PIP 328 549.89 552.25 544.91 544.37 -15! 534 TO 525  
120: HOL LYON\_EAST  
121:  
122: NEW MAYBERRY LATERAL  
123: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.5 (R-1)  
124: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 167.55 +  
125: 166.67 156.81 134.83 138.13 141.07 118.64 131.29 139.26 +  
126: 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
127: SAN 2.0 13.4  
128: PIP 168 582.62 581.11 576.58 573.09 -8! 464 TO 465  
129: SAN 3.4 13.4  
130: PIP 162 581.1 579.8 573.09 568.81 -8! 465 TO 466  
131: SAN 9.8 13.4  
132: SAN 9.1 13.4 3.9  
133: PIP 125 579.8 579.80 568.81 568.81 -8! 466 TO 467  
134: SAN 5.5 13.4  
135: PIP 250 579.8 577.28 568.81 567.93 -8! 467 TO 470  
136: SAN 5.5 13.4  
137: PIP 213.9 577.28 573.94 567.93 566.59 -8! 470 TO 471  
138: REM INDUSTRIAL AREA (M.H.3) CONTRIBUTION HERE  
139: DIU 3.83 3.99 4.21 3.60 3.13 3.13 5.96 7.27 +  
140: 8.24 8.38 9.73 8.00 9.10 8.94 8.44 5.69 +  
141: 5.40 4.51 4.59 4.92 4.60 4.11 3.89 4.32  
142: SAN 7.6 14 7.2  
143: SAN 11.3 32.6 5.3  
144: SAN 3.4 32.6  
145: PIP 333.2 573.94 571.49 566.59 563.16 -8! 471 TO 472  
146: SAN 4.7 14  
147: PIP 334.88 571.49 565.05 563.16 557.80 -8! 472 TO 491  
148: SAN 4.6 14  
149: PIP 325.64 565.05 562.91 557.80 556.11 -8! 491 TO 555  
150: SAN 6.8 13.4  
151: PIP 503 562.91 560.37 556.11 553.52 -8! 555 TO 557  
152: SAN 3.0 13.4  
153: PIP 368 560.37 558.46 553.52 551.09 -8! 557 TO 519  
154: SAN 13.2 13.4  
155: SAN 3.9 10.6  
156: PIP 750 558.46 552.98 551.09 546.61 -8! 519 TO 524  
157: SAN 6.9 13.4  
158: SAN 3.8 10.6  
159: PIP 192 552.98 552.07 546.61 554.20 -8! 524 TO 525  
160: HOL MAYBERRY  
161: NEW LYON/ARBOR/ROSE/ORCHID TRUNK  
162: REM CONNECT TO LYON EAST LATERAL  
163: REC LYON\_EAST  
164: REC MAYBERRY  
165: SAN 2.2 21.5  
166: PIP 251.2 552.25 552.0 544.37 543.98 -15! 525 TO 537  
167: PIP 12.0 552.0 552.8 543.98 542.92 -15! 537 TO 536  
168: PIP 376.36 552.8 552.0 542.92 540.10 -24! 536 TO 535  
169: PIP 380 552.0 551.25 540.10 537.25 -24! 535 TO 533

\\HYDRA\HEMET\LINE-K.CMD

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170: SAN 2.9 20.2  
171: PIP 760 551.25 549.9 537.25 531.16 -24! 533 TO 103  
172: SAN 1.8 20.2  
173: REM BELOW INCLUDES TRIBUTARY AREA EAST OF LYON  
174: SAN 9.4 19.2 5.0  
175: SAN 13.3 19.2 5.0  
176: SAN 3.6 19.2 6.7  
177: SAN 5.8 19.2 7.5  
178: SAN 3.0 19.2 8.9  
179: SAN 5.7 19.2 11.9  
180: SAN 6.7 19.2 15.3  
181: SAN 9.1 19.2 17.2  
182: SAN 9.3 19.2 10.1  
183: REM BELOW INCLUDES TRIB. AREA WEST OF LYON  
184: SAN 1.6 9.0  
185: SAN 18.4 9.0 6.9  
186: SAN 5.6 9.0 12.5  
187: SAN 17.8 19.2 18.9  
188: SAN 6.7 19.2 28.3  
189: SAN 16.7 19.2 31.1  
190: SAN 19.2 32.3 38.3  
191: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.2 (R-A)  
192: DIU 77.49 64.76 57.03 54.49 60.76 85.05 156.93 223.39 +  
193: 233.46 238.6 224.07 204.05 182.09 172.48 170.59 158.67 +  
194: 172 187.58 199.57 195.87 179.75 155.25 129.62 108.13  
195: PIP 77.0 549.9 549.49 531.16 532.18 -24! 103 TO 109  
196: PIP 145.34 549.47 547.50 532.18 530.49 -24! 109 TO 108  
197: SAN 2.7 20.8  
198: PIP 350 547.5 545.02 530.49 530.04 -24! 108 TO 358  
199: REM BEGIN ARBOR PARKWAY  
200: PIP 278.93 545.02 544.08 528.95 527.99 -24! 358 TO 357  
201: PIP 134.75 544.08 543.80 527.99 527.57 -24! 357 TO 356  
202: PIP 170.34 543.80 543.0 527.57 527.04 -24! 356 TO 355  
203: SAN 3.6 9.0  
204: PIP 140 543.0 542.5 527.04 526.61 -24! 355 TO 354  
205: PIP 315 542.5 540.9 526.61 525.63 -24! 354 TO 353  
206: PIP 232.46 540.90 539.7 525.63 524.91 -24! 353 TO 352  
207: SAN 2.7 9.0  
208: PIP 177.07 539.7 539.0 524.91 524.36 -24! 352 TO 351  
209: PIP 177.07 539.0 538.2 524.36 523.81 -24! 351 TO 350  
210: SAN 2.3 9.0  
211: SAN 6.0 9.0 0.7  
212: SAN 5.5 9.0 3.2  
213: PIP 352.48 538.2 537.0 523.81 522.62 -24! 350 TO 30  
214: PIP 127.43 537.0 537.5 522.62 522.13 -24! 30 TO 29  
215: PIP 555.06 537.5 539.5 522.13 520.31 -24! 29, 28, 11  
216: SAN 4.6 9.0  
217: SAN 6.6 9.0 1.4  
218: PIP 340.83 539.5 537.0 520.31 519.27 -24! 11 TO 10  
19: PIP 340 537.0 535.0 519.27 518.22 -24! 10 TO 9  
20: PIP 176.18 535.0 534.5 518.22 517.57 -24! 9 TO 8  
221: SAN 4.3 9.0

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222: PIP 307.15 534.5 535.4 517.57 516.62 -24! 8 TO 7  
223: PIP 297.37 535.4 536.4 516.62 515.6 -24! 7 TO 3  
224: SAN 11.3 9.0  
225: SAN 11.3 9.0 5.3  
226: SAN 2.7 9.0  
227: PIP 202.25 536.4 533.9 515.6 514.97 -24! 3 TO 2  
228: HOL ORCHID  
229:  
230: NEW KIRBY TRUNK SEWER  
231: SAN 2.4 32.6! R-3  
232: SAN 2.1 14! COMMERCIAL  
233: PIP 319.36 545.82 545.1 535.73 534.61 -8! 889 TO 899  
234: PIP 670 545.1 539.0 534.61 532.26 -8! 899, 102, 101  
235: SAN 4.0 14! INDUSTRIAL  
236: SAN 5.1 32.6! R-2  
237: PIP 649.7 539.0 534.4 532.26 530.07 -8! 101, 100, 99  
238: SAN 3.16 14! INDUSTRIAL  
239: SAN 3.16 16.3! R-3  
240: SAN 1.6 14! COMMERCIAL  
241: PIP 10.0 534.4 534.0 530.07 530.07 -8! 99 TO 98  
242: SAN 2.14 14! COMMERCIAL  
243: PIP 359.52 534.0 535.6 530.07 529.14 -10! 98 TO 94  
244: PIP 313.02 535.6 535.7 529.14 528.51 -10! 94 TO 93  
245: SAN 3.13 14  
246: PIP 182 535.7 536.26 528.51 528.32 -10! 93 TO 95  
247: PIP 85.58 536.26 536.06 528.32 528.02 -10! 95 TO 91  
248: SAN 7.2 32.6  
249: PIP 272 536.06 535.38 528.02 527.58 -10! 91 TO 89  
250: SAN 3.0 14  
251: SAN 7.2 32.6  
252: PIP 272 535.38 534.70 527.58 527.15 -10! 89 TO 87  
253: PIP 272 534.7 534.02 527.15 526.71 -10! 87 TO 85  
254: SAN 3.0 14  
255: SAN 7.2 32.6  
256: PIP 226.81 534.02 533.45 526.71 526.35 -10! 85 TO 84  
257: PIP 100 533.45 533.4 526.35 526.19 -10! 84 TO 83  
258: SAN 5.4 32.6  
259: SAN 1.8 14  
260: PIP 280 533.4 534.0 526.19 524.81 -10! 83 TO 583  
261: PIP 300 534.0 534.2 524.81 524.09 -10! 583 TO 65  
262: SAN 13.9 6.7  
263: SAN 5.2 6.7 5.3  
264: SAN 0.6 14  
265: SAN 0.5 0.0  
266: PIP 425.0 534.2 530.56 524.09 523.07 -10! 65 TO 57  
267: SAN 10.5 9.0  
268: SAN 2.8 9.0  
269: PIP 460.0 530.56 531.97 523.07 521.27 -10! 57 TO 582  
270: PIP 460 531.97 533.4 521.27 519.48 -10! 582 TO 581  
271: PIP 390 533.4 534.6 519.48 517.96 -10! 581 TO 32  
272: SAN 16.9 9.0  
273: PIP 590 534.6 536.4 517.96 515.6 -10! 32 TO 584

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274: PIP 340 536.4 533.9 515.6 514.97 -101 584 TO 2  
275: REC ORCHID  
276: PIP 16.85 533.9 533.5 514.97 514.82 -241 2 TO 1  
277: PIP 67.76 533.5 533.5 514.82 514.51 -241 1 TO K  
278: END

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----- S U M M A R Y     O F     A N A L Y S I S -----

Run number on command file :	1
Number of links :	101
Number of hydrographs :	228
Total sanitary population :	12327
Total sanitary area :	798.09 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	30605.22 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

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14: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 167.55 +  
15: SAN 166.67 156.81 134.83 138.13 141.07 118.64 131.29 139.26 +  
16: SAN 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
17: NEW JOHNSTON LATERAL  
18: SAN 9.9 15.4 3.3  
19: SAN 9.8 15.4 5.6  
20: PIP 264 612.65 610.08 605.59 604.36 -81 K-381 TO 430  
21: SAN 3.9 15.4  
22: PIP 280 610.08 608.96 604.36 603.45 -81 430 TO 429  
23: PIP 100 608.96 607.59 603.45 602.39 -81 429 TO 428  
24: SAN 11.1 15.8  
25: PIP 300 607.59 605.60 602.39 599.36 -81 428 TO 426  
26: SAN 10.1 15.4  
27: PIP 412 605.60 603.96 599.36 592.55 -81 426 TO 348  
28: SAN 8.9 15.4  
29: SAN 4.5 14  
30: SAN 4.7 14 4.4  
31: SAN 8.6 15.4 5.6  
32: PIP 326.7 603.96 600.98 592.55 590.63 -101 348 TO 341  
33: SAN 2.3 37.4  
34: PIP 652.0 600.98 595.00 590.63 586.8 -101 341 TO 339  
35: SAN 18.7 15.4  
36: PIP 487.62 595.0 592.6 586.8 584.76 -101 339 TO 332  
37: SAN 7.1 14  
38: PIP 543 592.6 587.50 584.76 580.63 -101 332 TO 335  
39: SAN 2.3 15.4  
40: SAN 2.3 37.4  
41: PIP 543 587.50 582.90 580.63 576.47 -101 335 TO 338  
42: SAN 2.2 15.4  
43: SAN 2.2 37.4  
44: PIP 193.63 582.9 581.6 576.47 574.82 -101 338 TO 278  
45: PIP 318.47 581.6 582.1 574.82 574.01 -121 278 TO 281  
46: HOL JOHNSTON  
47: NEW GILBERT LATERAL SEWER  
48: SAN 2.9 15.4 1 M.H.#5  
49: REC JOHNSTON  
50: PIP 318.47 582.1 582.72 574.01 573.21 -121 281 TO 291  
51: SAN 16.5 15.4 3.9  
52: PIP 333.47 582.72 582.5 573.21 572.36 -121 291 TO 286  
53: SAN 2.9 15.4  
54: PIP 333.46 582.5 582.2 572.36 571.29 -121 286 TO 287  
55: HOL GILBERT  
56:  
57: NEW WHITTIER LATERAL  
58: SAN 4.4 15.4  
59: PIP 58.84 603.32 602.50 596.17 595.70 -81 436 TO 437  
60: SAN 6.6 15.4  
61: PIP 271.13 602.50 599.38 602.50 593.04 -81 437 TO 438  
62: SAN 4.4 15.4  
63: PIP 636.39 599.38 594.81 592.85 586.54 -81 438 TO 440  
64: SAN 8.8 5.7 1 CHURCH - ASSUME EQUIV. TO 50 PEOPLE  
65: SAN 11.6 15.4

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66: PIP 48.65 594.81 594.48 586.37 586.22 -8! 440 TO 442  
67: SAN 3.8 15.4  
68: PIP 675.3 594.48 587.56 586.22 580.52 -8! 442 TO 312  
69: SAN 6.7 15.4  
70: SAN 10.0 13.1 ! WHITTIER ELEM SCH - FROM M&E  
71: PIP 326 587.56 584.85 580.52 577.57 -8! 312 TO 311  
72: PIP 326 584.85 582.35 577.57 571.73 -8! 311 TO 287  
73: REC GILBERT  
74: PIP 329.4 582.35 578.32 571.73 568.69 -12! 287 TO 288  
75: PIP 220 578.32 576.46 568.69 567.02 -12! 288 TO 290  
76: SAN 10.5 15.4  
77: PIP 109 576.46 575.40 567.02 566.09 -12! 290 TO 292  
78: SAN 9.0 15.4  
79: PIP 329 575.40 572.89 566.09 563.49 -12! 292 TO 309  
80: PIP 329 572.89 569.0 563.49 560.93 -12! 309 TO 308  
81: SAN 22.5 20.5  
82: SAN 6.9 15.4 11.9  
83: PIP 111 569.0 567.82 560.93 560.0 -12! 308 TO 136  
84: SAN 5.4 22.0  
85: PIP 250 567.82 564.0 560.0 556.45 -12! 136 TO 135  
86: SAN 5.3 22.0  
87: PIP 70 564.0 562.96 556.45 555.45 -12! 135 TO 134  
88: SAN 4.7 37.4  
89: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.2 (R-A)  
90: DIU 77.49 64.76 57.03 54.49 60.76 85.05 156.93 223.39 +  
91: 233.45 238.6 224.07 204.05 182.09 172.48 170.59 158.67 +  
92: 172 187.58 199.57 195.87 179.75 155.25 129.62 108.13  
93: PIP 550 562.96 561.4 555.45 553.77 -12! 134 TO 133  
94: PIP 268 561.4 559.52 553.77 551.75 -12! 133 TO 127 (M.H.2)  
95: SAN 10.4 22.0  
96: SAN 9.2 22.0 4.4  
97: SAN 8.0 22.0 5.6  
98: PIP 213 559.52 558.71 551.75 550.84 -12! 127 TO 114  
99: PIP 331.2 558.71 556.62 550.84 549.78 -12! 114 TO 113  
100: PIP 326 556.62 553.89 549.78 548.69 -12! 113 TO 112  
101: PIP 326 553.89 551.56 548.69 547.60 -12! 112 TO 111  
102: PIP 326 551.56 549.62 547.60 546.50 -12! 111 TO 105  
103: HOL WHITTIER  
104: NEW LYON EAST LATERAL  
105: REC WHITTIER  
106: PIP 326 549.62 549.60 546.50 545.97 -15! 105 TO 569  
107: SAN 7.0 8.8  
108: SAN 9.2 8.8 3.9  
109: PIP 326 549.6 549.35 545.97 545.44 -15! 569 TO 532  
110: SAN 4.7 8.8  
111: SAN 6.2 8.8 3.2  
112: SAN 6.4 8.8 6.6  
113: SAN 6.3 8.8 7.7  
114: SAN 10.1 8.8 10.4  
115: SAN 13.6 8.8 11.6  
116: SAN 16.6 37.4 16.0  
117: PIP 326 549.35 549.89 545.44 544.91 -15! 532 TO 534

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118: PIP 328 549.89 552.25 544.91 544.37 -15! 534 TO 525  
119: HOL LYON\_EAST  
120:  
121: NEW MAYBERRY LATERAL  
122: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.5 (R-1)  
123: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 167.55 +  
124: 166.67 156.81 134.83 138.13 141.07 118.64 131.29 139.26 +  
125: 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
126: SAN 2.0 15.4  
127: PIP 168 582.62 581.11 576.58 573.09 -8! 464 TO 465  
128: SAN 3.4 15.4  
129: PIP 162 581.1 579.8 573.09 568.81 -8! 465 TO 466  
130: SAN 9.8 15.4  
131: SAN 9.1 15.4 3.9  
132: PIP 125 579.8 579.80 568.81 568.81 -8! 466 TO 467  
133: SAN 5.5 15.4  
134: PIP 250 579.8 577.28 568.81 567.93 -8! 467 TO 470  
135: SAN 5.5 15.4  
136: PIP 213.9 577.28 573.94 567.93 566.59 -8! 470 TO 471  
137: REM INDUSTRIAL AREA (M.H.3) CONTRIBUTION HERE  
138: DIU 3.83 3.99 4.21 3.60 3.13 3.13 5.96 7.27 +  
139: 8.24 8.38 9.73 8.00 9.10 8.94 8.44 5.69 +  
140: 5.40 4.51 4.59 4.92 4.60 4.11 3.89 4.32  
141: SAN 7.6 30 7.2  
142: SAN 11.3 32.6 5.3  
143: SAN 3.4 37.4  
144: PIP 333.2 573.94 571.49 566.59 563.16 -8! 471 TO 472  
145: SAN 4.7 14  
146: PIP 334.88 571.49 565.05 563.16 557.80 -8! 472 TO 491  
147: SAN 4.6 14  
148: PIP 325.64 565.05 562.91 557.80 556.11 -8! 491 TO 555  
149: SAN 6.8 15.4  
150: PIP 503 562.91 560.37 556.11 553.52 -8! 555 TO 557  
151: SAN 3.0 15.4  
152: PIP 368 560.37 558.46 553.52 551.09 -8! 557 TO 519  
153: SAN 13.2 15.4  
154: SAN 3.9 12.1  
155: PIP 750 558.46 552.98 551.09 546.61 -8! 519 TO 524  
156: SAN 6.9 15.4  
157: SAN 3.8 12.1  
158: PIP 192 552.98 552.07 546.61 554.20 -8! 524 TO 525  
159: HOL MAYBERRY  
160: NEW LYON/ARBOR/ROSE/ORCHID TRUNK  
161: REM CONNECT TO LYON EAST LATERAL  
162: REC LYON\_EAST  
163: REC MAYBERRY  
164: SAN 2.2 24.6  
165: PIP 251.2 552.25 552.0 544.37 543.98 -15! 525 TO 537  
166: PIP 12.0 552.0 552.8 543.98 542.92 -15! 537 TO 536  
167: PIP 376.36 552.8 552.0 542.92 540.10 -24! 536 TO 535  
168: PIP 380 552.0 551.25 540.10 537.25 -24! 535 TO 533  
169: SAN 2.9 23.1

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170: PIP 760 551.25 549.9 537.25 531.16 -24! 533 TO 103  
171: SAN 1.8 23.1  
172: REM BELOW INCLUDES TRIBUTARY AREA EAST OF LYON  
173: SAN 9.4 22.0 5.0  
174: SAN 13.3 22.0 5.0  
175: SAN 3.6 22.9 6.7  
176: SAN 5.8 22.0 7.5  
177: SAN 3.0 22.0 8.9  
178: SAN 5.7 22.0 11.9  
179: SAN 6.7 22.0 15.3  
180: SAN 9.1 22.0 17.2  
181: SAN 9.3 22.0 10.1  
182: REM BELOW INCLUDES TRIB. AREA WEST OF LYON  
183: SAN 1.6 15.4  
184: SAN 18.4 15.4 6.9  
185: SAN 5.6 15.4 2.5  
186: SAN 17.8 22.0 18.9  
187: SAN 6.7 22.0 28.3  
188: SAN 16.7 22.0 31.1  
189: SAN 19.2 37.4 38.3  
190: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.2 (R-A)  
191: DIU 77.49 64.76 57.03 54.49 60.76 85.05 156.93 223.39 +  
192: 233.46 238.6 224.07 204.05 182.09 172.48 170.59 158.67 +  
193: 172 187.58 199.57 195.87 179.75 155.25 129.62 108.13  
194: PIP 77.0 549.9 549.49 531.16 532.18 -24! 103 TO 109  
195: PIP 145.34 549.47 547.50 532.18 530.49 -24! 109 TO 108  
196: SAN 2.7 26.4  
197: PIP 350 547.5 545.02 530.49 530.04 -24! 108 TO 358  
198: REM BEGIN ARBOR PARKWAY  
199: PIP 278.93 545.02 544.08 528.95 527.99 -24! 358 TO 357  
200: PIP 134.75 544.08 543.80 527.99 527.57 -24! 357 TO 356  
201: PIP 170.34 543.80 543.0 527.57 527.04 -24! 356 TO 355  
202: SAN 3.6 15.4  
203: PIP 140 543.0 542.5 527.04 526.61 -24! 355 TO 354  
204: PIP 315 542.5 540.9 526.61 525.63 -24! 354 TO 353  
205: PIP 232.46 540.90 539.7 525.63 524.91 -24! 353 TO 352  
206: SAN 2.7 15.4  
207: PIP 177.07 539.7 539.0 524.91 524.36 -24! 352 TO 351  
208: PIP 177.07 539.0 538.2 524.36 523.81 -24! 351 TO 350  
209: SAN 2.3 15.4  
210: SAN 6.0 15.4 0.7  
211: SAN 5.5 15.4 3.2  
212: PIP 352.48 538.2 537.0 523.81 522.62 -24! 350 TO 30  
213: PIP 127.43 537.0 537.5 522.62 522.13 -24! 30 TO 29  
214: PIP 555.06 537.5 539.5 522.13 520.31 -24! 29, 28, 11  
215: SAN 4.6 15.4  
216: SAN 6.6 15.4 1.4  
217: PIP 340.83 539.5 537.0 520.31 519.27 -24! 11 TO 10  
218: PIP 340 537.0 535.0 519.27 518.22 -24! 10 TO 9  
219: PIP 176.18 535.0 534.5 518.22 517.57 -24! 9 TO 8  
220: SAN 4.3 15.4  
221: PIP 307.15 534.5 535.4 517.57 516.62 -24! 8 TO 7

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222: PIP 297.37 535.4 536.4 516.62 515.6 -24! 7 TO 3  
223: SAN 11.3 15.4  
224: SAN 11.3 15.4 5.3  
225: SAN 2.7 15.4  
226: PIP 202.25 536.4 533.9 515.6 514.97 -24! 3 TO 2  
227: HOL ORCHID  
228:  
229: NEW KIRBY TRUNK SEWER  
230: SAN 2.4 37.4! R-3  
231: SAN 2.1 14! COMMERCIAL  
232: PIP 319.36 545.82 545.1 535.73 534.61 -8! 889 TO 899  
233: PIP 670 545.1 539.0 534.61 532.26 -8! 899, 102, 101  
234: SAN 4.0 14! INDUSTRIAL  
235: SAN 5.1 37.4! R-2  
236: PIP 649.7 539.0 534.4 532.26 530.07 -8! 101, 100, 99  
237: SAN 3.16 14! INDUSTRIAL  
238: SAN 3.16 37.4! R-3  
239: SAN 1.6 14! COMMERCIAL  
240: PIP 10.0 534.4 534.0 530.07 530.07 -8! 99 TO 98  
241: SAN 2.14 14! COMMERCIAL  
242: PIP 359.52 534.0 535.6 530.07 529.14 -10! 98 TO 94  
243: PIP 313.02 535.6 535.7 529.14 528.51 -10! 94 TO 93  
244: SAN 3.13 14  
245: PIP 182 535.7 536.26 528.51 528.32 -10! 93 TO 95  
246: PIP 85.58 536.26 536.06 528.32 528.02 -10! 95 TO 91  
247: SAN 7.2 32.6  
248: PIP 272 536.06 535.38 528.02 527.58 -10! 91 TO 89  
249: SAN 3.0 14  
250: SAN 7.2 37.4  
251: PIP 272 535.38 534.70 527.58 527.15 -10! 89 TO 87  
252: PIP 272 534.7 534.02 527.15 526.71 -10! 87 TO 85  
253: SAN 3.0 14  
254: SAN 7.2 37.4  
255: PIP 226.81 534.02 533.45 526.71 526.35 -10! 85 TO 84  
256: PIP 100 533.45 533.4 526.35 526.19 -10! 84 TO 83  
257: SAN 5.4 37.4  
258: SAN 1.8 14  
259: PIP 280 533.4 534.0 526.19 524.81 -10! 83 TO 583  
260: PIP 300 534.0 534.2 524.81 524.09 -10! 583 TO 65  
261: SAN 13.9 15.4  
262: SAN 5.2 15.4 5.3  
263: SAN 0.6 14  
264: SAN 0.5 19.6  
265: PIP 425.0 534.2 530.56 524.09 523.07 -10! 65 TO 57  
266: SAN 10.5 15.4  
267: SAN 2.8 15.4  
268: PIP 460.0 530.56 531.97 523.07 521.27 -10! 57 TO 582  
269: PIP 460 531.97 533.4 521.27 519.48 -10! 582 TO 581  
270: PIP 390 533.4 534.6 519.48 517.96 -10! 581 TO 32  
271: SAN 16.9 15.4  
272: PIP 590 534.6 536.4 517.96 515.6 -10! 32 TO 584  
273: PIP 340 536.4 533.9 515.6 514.97 -10! 584 TO 2

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274: REC ORCHID  
275: PIP 16.85 533.9 533.5 514.97 514.82 -24! 2 TO 1  
276: PIP 67.76 533.5 533.5 514.82 514.51 -24! 1 TO K  
277: END

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9:16 22-May-90

----- S U M M A R Y     O F     A N A L Y S I S -----

Run number on command file :	1
Number of links :	101
Number of hydrographs :	228
Total sanitary population :	15053
Total sanitary area :	798.09 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	30605.22 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

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9:11 22-May-

LINE K AT STETSON AND KIRBY

\*\*\* JOHNSTON LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	264	8	605.59 604.36	0.0047	0.0 0.0	0.0 0.0	1.18 0.22	0.04	7.27 0.53		
2	280	8	604.36 603.45	0.0033	0.0 0.0	0.0 0.0	1.09 0.26	0.05	10.43 0.44		
3	100	8	603.45 602.39	0.0106	0.0 0.0	0.0 0.0	1.68 0.20	0.05	5.77 0.80		
4	300	8	602.39 599.36	0.0101	0.1 0.0	0.0 0.0	1.80 0.23	0.06	8.16 0.78		
5	412	8	599.36 592.55	0.0165	0.1 0.0	0.0 0.0	2.29 0.23	0.08	7.97 1.00		
6	327	10	592.55 590.63	0.0059	0.1 0.0	0.0 0.0	1.73 0.27	0.13	11.67 1.08		
7	652	10	590.63 586.80	0.0059	0.1 0.0	0.0 0.0	1.76 0.28	0.14	12.68 1.08		
8	488	10	586.80 584.76	0.0042	0.2 0.0	0.0 0.0	1.63 0.33	0.17	18.26 0.91		
9	543	10	584.76 580.63	0.0076	0.2 0.0	0.0 0.0	2.08 0.29	0.18	14.71 1.23		
10	543	10	580.63 576.47	0.0077	0.2 0.0	0.0 0.0	2.13 0.30	0.20	15.86 1.23		
11	194	10	576.47 574.82	0.0085	0.2 0.0	0.0 0.0	2.25 0.31	0.21	16.13 1.30		
12	318	12	574.82 574.01	0.0025	0.2 0.0	0.0 0.0	1.44 0.32	0.21	18.15 1.15		

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 Lateral length= 4420                      Upstream length= 4420

\*\*\* GILBERT LATERAL SEWER

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	l Rep
13	318	12	574.01	0.0025	0.2	0.0	1.44	0.21	18.71		

C:\HYDRA\HEMET\LINE-K.CMD

9:11 22-May-99

LINE K AT STETSON AND KIRBY

\*\*\* GILBERT LATERAL SEWER

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
14	333	12	573.21 572.36	0.0025	0.2 0.0	0.0 0.0	1.51 0.35	0.25	21.32 1.15		
15	333	12	572.36 571.29	0.0032	0.3 0.0	0.0 0.0	1.65 0.34	0.25	19.42 1.29		
-----				Lateral length=		985	Upstream length=		5406		

\*\*\* WHITTIER LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
16	59	8	596.17 595.70	0.0080	0.0 0.0	0.0 0.0	0.96 0.10	0.01	1.24 0.69		
17	271	8	602.50 593.04	0.0349	0.0 0.0	0.0 0.0	2.04 0.10	0.02	1.31 1.45		
18	636	8	592.85 586.54	0.0099	0.0 0.0	0.0 0.0	1.44 0.16	0.03	3.57 0.77		
19	49	8	586.37 586.22	0.0031	0.1 0.0	0.0 0.0	1.11 0.28	0.06	13.37 0.43		
20	675	8	586.22 580.52	0.0084	0.1 0.0	0.0 0.0	1.70 0.24	0.06	9.12 0.71		
21	326	8	580.52 577.57	0.0090	0.1 0.0	0.0 0.0	1.90 0.28	0.10	13.17 0.74		
22	326	8	577.57 571.73	0.0179	0.1 0.0	0.0 0.0	2.50 0.25	0.10	9.36 1.04		
23	329	12	571.73 568.69	0.0092	0.3 0.0	0.0 0.0	2.63 0.30	0.35	15.82 2.19		
24	220	12	568.69 567.02	0.0076	0.3 0.0	0.0 0.0	2.45 0.32	0.35	17.44 1.99		
25	109	12	567.02 566.09	0.0085	0.4 0.0	0.0 0.0	2.60 0.32	0.37	17.40 2.11		

C:\HYDRA\HEMET\LINE-K.CMD

9:11 22-May-

LINE K AT STETSON AND KIRBY

\*\*\* MAYBERRY LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
51	368	8	553.52	0.0066	0.2	0.0	2.12	0.21	32.80	0.00	0	
			551.09		0.0	0.0	0.45		0.63			
52	750	8	551.09	0.0060	0.2	0.0	2.15	0.24	40.65	0.00	0	
			546.61		0.0	0.0	0.50		0.60			
53	192	8	546.61	-0.0395	0.3	0.0	0.00	0.27	999.99	0.00	0	
			554.20		0.0	0.0	0.00		0.00			
-----												
Lateral length=				3726	Upstream length=				3726			

\*\*\* LYON/ARBOR/ROSE/ORCHID TRUNK

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	P R
54	251	15	544.37	0.0016	1.0	0.0	1.89	1.00	61.03	0.00	0
			543.98		0.0	0.0	0.64		1.63		
55	12	15	543.98	0.0883	1.0	0.0	8.07	1.00	8.09	0.00	0
			542.92		0.0	0.0	0.23		12.31		
56	376	24	542.92	0.0075	1.0	0.0	3.20	1.00	7.93	0.00	0
			540.10		0.0	0.0	0.23		12.56		
57	380	24	540.10	0.0075	1.0	0.0	3.20	1.00	7.93	0.00	0
			537.25		0.0	0.0	0.23		12.57		
58	760	24	537.25	0.0080	1.0	0.0	3.29	1.01	7.75	0.00	0
			531.16		0.0	0.0	0.22		12.99		
59	77	24	531.16	-0.0132	1.5	0.0	0.00	1.49	999.99	0.00	0
			532.18		0.0	0.0	0.00		0.00		
60	145	24	532.18	0.0116	1.5	0.0	4.21	1.49	9.55	0.00	0
			530.49		0.0	0.0	0.25		15.65		
61	350	24	530.49	0.0013	1.5	0.0	1.88	1.50	28.87	0.00	0
			530.04		0.0	0.0	0.42		5.20		
62	279	24	528.95	0.0034	1.5	0.0	2.63	1.50	17.63	0.00	0
			527.99		0.0	0.0	0.32		8.51		

C:\HYDRA\HEMET\LINE-K.CMD

9:11 22-May--

LINE K AT STETSON AND KIRBY

\*\*\* LYON/ARBOR/ROSE/ORCHID TRUNK

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
78	202 24	515.60 514.97	0.0031	1.6 0.0	0.0 0.0	2.58 0.34	1.57	19.39 8.10		
-----				Lateral length= 6676		Upstream length=		23544		

\*\*\* KIRBY TRUNK SEWER

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
79	319 8	535.73 534.61	0.0035	0.0 0.0	0.0 0.0	0.86 0.16	0.02	3.64 0.46		
80	670 8	534.61 532.26	0.0035	0.0 0.0	0.0 0.0	0.86 0.16	0.02	3.64 0.46		
81	650 8	532.26 530.07	0.0034	0.1 0.0	0.0 0.0	1.13 0.27	0.05	11.38 0.45		
82	10 8	530.07 530.07	0.0000	0.1 0.0	0.0 0.0	0.00 0.00	0.07	999.99 0.00	0.00	0 0
83	360 10	530.07 529.14	0.0026	0.1 0.0	0.0 0.0	1.12 0.26	0.07	10.38 0.71		
84	313 10	529.14 528.51	0.0020	0.1 0.0	0.0 0.0	1.02 0.27	0.07	11.76 0.63		
85	182 10	528.51 528.32	0.0010	0.1 0.0	0.0 0.0	0.81 0.32	0.08	17.83 0.45		
86	86 10	528.32 528.02	0.0035	0.1 0.0	0.0 0.0	1.29 0.25	0.08	9.72 0.83		
87	272 10	528.02 527.58	0.0016	0.1 0.0	0.0 0.0	1.06 0.35	0.12	20.75 0.57		
88	272 10	527.58 527.15	0.0016	0.2 0.0	0.0 0.0	1.16 0.42	0.16	28.65 0.56		
89	272 10	527.15 526.71	0.0016	0.2 0.0	0.0 0.0	1.17 0.41	0.16	28.29 0.57		

C:\HYDRA\HEMET\LINE-K.CMD

9:11 22-May-90

LINE K AT STETSON AND KIRBY

\*\*\* KIRBY TRUNK SEWER

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
90	227	10 526.71 526.35	0.0016	0.2 0.0	0.0 0.0	1.24 0.47	0.20	36.20 0.56		
91	100	10 526.35 526.19	0.0016	0.2 0.0	0.0 0.0	1.25 0.47	0.20	36.03 0.56		
92	280	10 526.19 524.81	0.0049	0.2 0.0	0.0 0.0	1.93 0.37	0.23	23.69 0.99		
93	300	10 524.81 524.09	0.0024	0.2 0.0	0.0 0.0	1.50 0.45	0.23	33.92 0.69		
94	425	10 524.09 523.07	0.0024	0.3 0.0	0.0 0.0	1.54 0.48	0.25	36.97 0.69		
95	460	10 523.07 521.27	0.0039	0.3 0.0	0.0 0.0	1.87 0.43	0.27	31.03 0.88		
96	460	10 521.27 519.48	0.0039	0.3 0.0	0.0 0.0	1.86 0.43	0.27	31.08 0.88		
97	390	10 519.48 517.96	0.0039	0.3 0.0	0.0 0.0	1.86 0.43	0.27	31.02 0.88		
98	590	10 517.96 515.60	0.0040	0.3 0.0	0.0 0.0	1.92 0.45	0.30	33.25 0.89		
99	340	10 515.60 514.97	0.0019	0.3 0.0	0.0 0.0	1.47 0.56	0.30	48.79 0.60		
100	17	24 514.97 514.82	0.0089	1.9 0.0	0.0 0.0	3.95 0.28	1.86	13.55 13.69		
101	68	24 514.82 514.51	0.0046	1.9 0.0	0.0 0.0	3.10 0.33	1.86	18.90 9.81		

-----  
Lateral length= 7062                      Upstream length= 30605

C:\HYDRA\HEMET\LINE-K1.CMD

9:12 22-May-

Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINE-K1.CMD
Input units are read as      : USA
* Output sent to display    : Brief
* Output sent to printer    : Brief
* Output sent to file       : Off
Paper width in inches       : 8.000
String to reset printer     : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer             : Hewlett-Packard, LaserJet/LaserJet P
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes       : 15
Significant flow in hydrograph : 0.010
* Maximum plot value         : Selected by HYDRA
Type of hydrographic plot    : Compact

Sanitary flow by            : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations            : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe : 0.00 or Invert
* Number of allowable diam drops : 999
* Minimum drop thru manhole : 0.000
Routing technique           : Quick

* Calculate sanitary flows : True
* Calculate infiltration flows : True
* Calculate storm flows : True
* Calculate misc flows : True
```

```
-----
1: JOB LINE K1 AT STETSON & SEVEN HILLS DRIVE
2:
3: REM --- PIPE AND PIPE COST DATA ---
4: PDA .013 8 8 7.5 3 .004
5: CST 1.5 1 3 / .2 .5 .5 2.87 / .5 0 1.63+
6:      1.15 / .89 1.1 1.43 4.78
7: EXC 0/.45 18/.45 30/1.12
8: TSL 0/0 6/0 6.001/.5 30/.5
9: PCD 8/2.78 10/4.10 18/9.16 36/18.23
10: REM --- SANITARY CRITERIA ---
11: GPC 100
12:
13: REM THIS MODEL RUN FOR 1990 CONDITIONS
14:
```

=====

\HYDRA\HEMET\LINE-K1.CMD

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15: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.5 (R-1)  
16: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 167.55+  
17: 166.67 156.81 134.83 138.13 141.07 118.64 131.29 139.26+  
18: 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
19:  
20: NEW SEVEN HILLS DRIVE TRUNK SEWER  
21: REM BEGIN AT SEVEN HILLS DRIVE & BEECH TREE ST.  
22: SAN 9.6 0.0 3.9  
23: SAN 19.8 0.0  
24: SAN 19.2 0.0 4.4  
25: PIP 335.4 536.0 535.23 530.17 528.88 -10! K1-55 TO 54  
26: PIP 336 535.23 535.67 528.88 527.59 -10! K1-54 TO 53  
27: SAN 20.8 0.0 1 ZONED OS (OPEN SPACE)  
28: PIP 246 535.67 535.7 527.59 526.22 -10! 53 TO 45  
29: PIP 246 535.7 538.0 526.22 525.13 -10! 45 TO 44  
30: SAN 3.4 0.0  
31: PIP 345 538.0 538.0 525.13 523.57 -10! 44 TO 43  
32: PIP 250 538.0 538.1 523.57 522.57 -12! 43 TO 34  
33: SAN 10.7 32.6  
34: SAN 5.0 0.0 1.4  
35: SAN 4.0 0.0 3.6  
36: PIP 270 538.11 537.27 522.57 521.48 -12! 34 TO 27  
37:  
38: SAN 10.2 13.4 6.1  
39: PIP 173.5 537.27 536.0 521.48 520.29 -12! 27 TO 26  
40: PIP 301.0 536.0 535.2 520.29 519.08 -12! 26 TO 25  
41:  
42: SAN 6.5 32.6  
43: PIP 230.6 535.2 534.34 519.08 518.16 -12! 25 TO 3  
44:  
45: REM BELOW TRIBUTARY AREAS WEST OF 7-HILLS DRIVE  
46:  
47: SAN 6.6 11.0 1TR-20  
48: SAN 13.4 11.0 5.0! TR-20  
49: SAN 12.5 11.0 7.2! TR-20  
50:  
51: REM TRIBUTARY AREAS EAST OF 7-HILLS DRIVE  
52: SAN 7.9 13.4 1.5  
53: SAN 6.8 13.4 6.2  
54: SAN 5.1 13.4 11.0  
55: SAN 10.9 0.0 3.3  
56: SAN 8.2 13.4 9.4  
57: SAN 8.1 13.4 15.3  
58: SAN 3.8 13.4 10.7  
59: SAN 2.7 13.4 14.9  
60: SAN 4.4 13.4 13.4  
61: SAN 4.9 13.4 15.6  
62: SAN 3.4 13.4 22.0  
63: PIP 276.2 534.34 533.89 518.16 517.06 -12! K1-3 TO K1-2  
64: PIP 260.1 533.89 534.0 517.06 516.02 -15! K1-2 TO K1-1  
65: SAN 2.5 32.6  
66: PIP 105.4 534.0 535.0 516.02 515.05 -15! K1-1 TO K1

URS Consultants Inc.  
San Bernardino, California

HYDRA Version 4.17  
Page 3

-----  
C:\HYDRA\HEMET\LINE-K1.CMD

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67: END

-----  
\\HYDRA\HEMET\LINE-K1.CMD

9:12 22-May-90

----- S U M M A R Y     O F     A N A L Y S I S -----

Run number on command file :	1
Number of links :	13
Number of hydrographs :	46
Total sanitary population :	1877
Total sanitary area :	210.40 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	3375.20 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

C:\HYDRA\HEMET\LINE-K1.CMD

9:13 22-May

LINE K1 AT STETSON & SEVEN HILLS DRIVE

\*\*\* SEVEN HILLS DRIVE TRUNK SEWER

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	335 10	530.17 528.88	0.0038	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 0.87		
2	336 10	528.88 527.59	0.0038	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 0.87		
3	246 10	527.59 526.22	0.0056	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 1.05		
4	246 10	526.22 525.13	0.0044	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 0.94		
5	345 10	525.13 523.57	0.0045	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 0.94		
6	250 12	523.57 522.57	0.0040	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 1.45		
7	270 12	522.57 521.48	0.0040	0.1 0.0	0.0 0.0	1.20 0.16	0.05	3.50 1.45		
8	174 12	521.48 520.29	0.0069	0.1 0.0	0.0 0.0	1.58 0.16	0.07	3.74 1.89		
9	301 12	520.29 519.08	0.0040	0.1 0.0	0.0 0.0	1.29 0.18	0.07	4.88 1.45		
10	231 12	519.08 518.16	0.0040	0.1 0.0	0.0 0.0	1.42 0.21	0.10	7.04 1.44		
11	276 12	518.16 517.06	0.0040	0.3 0.0	0.0 0.0	1.80 0.32	0.26	18.14 1.44		
12	260 15	517.06 516.02	0.0040	0.3 0.0	0.0 0.0	1.82 0.25	0.26	9.99 2.62		
13	105 15	516.02 515.05	0.0092	0.3 0.0	0.0 0.0	2.49 0.21	0.27	6.88 3.97		

-----  
 Lateral length= 3375                      Upstream length= 3375

-----  
\\HYDRA\HEMET\LINE-K20.CMD

9:13 22-May-90

Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINE-K20.CMD
Input units are read as          : USA
* Output sent to display         : Brief
* Output sent to printer        : Brief
* Output sent to file           : Off
Paper width in inches           : 8.000
String to reset printer         : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer                 : Hewlett-Packard, LaserJet/LaserJet P
Print heading at top of page    : True

Number of steps in hydrograph   : 96
Step length in minutes          : 15
Significant flow in hydrograph  : 0.010
* Maximum plot value            : Selected by HYDRA
Type of hydrographic plot       : Compact

Sanitary flow by                : Diurnal Curve
Delay to start of actual storm  : 0.00
Rational Method computations    : Off
SCS computations                : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe       : 0.00 or Invert
* Number of allowable diam drops     : 999
* Mimimum drop thru manhole          : 0.000
Routing technique                : Quick

* Calculate sanitary flows           : True
* Calculate infiltration flows       : True
* Calculate storm flows              : True
* Calculate misc flows               : True
```

-----

```
1: JOB LINE K AT STETSON AND KIRBY
2: REM --- PIPE AND PIPE COST DATA ---
3: PDA .013 8 8 7.5 3 .004
4: CST 1.5 1 3 / .2 .5 .5 2.87 / .5 0 1.63 +
5:      1.15 / .89 1.1 1.43 4.78
6: EKC 0/.45 18/.45 30/1.12
7: TSL 0/0 6/0 6.001/.5 30/.5
8: PCO 8/2.78 10/4.10 18/9.16 36/18.23
9: REM --- SANITARY CRITERIA ---
10: GPC 100
11: REM THIS MODEL RUN FOR 1990 CONDITIONS
12: REM BEGIN AT JOHNSTON & SANTA FE
13: REM USE M.H.5 DIURNAL CURVE
```

C:\HYDRA\HEMET\LINE-K20.CMD

9:17 22-May-

LINE K AT STETSON AND KIRBY

\*\*\* JOHNSTON LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
1	264	8 605.59 604.36	0.0047	0.0 0.0	0.0 0.0	1.23 0.23	0.04	8.36 0.53			
2	280	8 604.36 603.45	0.0033	0.1 0.0	0.0 0.0	1.12 0.27	0.05	11.98 0.44			
3	100	8 603.45 602.39	0.0106	0.1 0.0	0.0 0.0	1.74 0.21	0.05	6.64 0.80			
4	300	8 602.39 599.36	0.0101	0.1 0.0	0.0 0.0	1.90 0.25	0.08	10.08 0.78			
5	412	8 599.36 592.55	0.0165	0.1 0.0	0.0 0.0	2.44 0.26	0.10	10.15 1.00			
6	327	10 592.55 590.63	0.0059	0.2 0.0	0.0 0.0	1.83 0.29	0.16	14.78 1.08			
7	652	10 590.63 586.80	0.0059	0.2 0.0	0.0 0.0	1.87 0.30	0.17	15.94 1.08			
8	488	10 586.80 584.76	0.0042	0.2 0.0	0.0 0.0	1.77 0.37	0.21	23.51 0.91			
9	543	10 584.76 580.63	0.0076	0.2 0.0	0.0 0.0	2.22 0.33	0.23	18.60 1.23			
10	543	10 580.63 576.47	0.0077	0.2 0.0	0.0 0.0	2.27 0.34	0.25	19.95 1.23			
11	194	10 576.47 574.82	0.0085	0.3 0.0	0.0 0.0	2.41 0.34	0.26	20.20 1.30			
12	318	12 574.82 574.01	0.0025	0.3 0.0	0.0 0.0	1.54 0.37	0.26	22.72 1.15			
-----				Lateral length=		4420	Upstream length=		4420	-----	

\*\*\* GILBERT LATERAL SEWER

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
13	318	12 574.01	0.0025	0.3	0.0	1.55	0.27	23.39		

C:\HYDRA\HEMET\LINE-K20.CMD

9:18 22-May-

LINE K AT STETSON AND KIRBY

\*\*\* GILBERT LATERAL SEWER

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
14	333	12	573.21 572.36	0.0025	0.3 0.0	0.0 0.0	1.63 0.40	0.30	26.38 1.15		
15	333	12	572.36 571.29	0.0032	0.3 0.0	0.0 0.0	1.77 0.38	0.31	23.98 1.29		
-----				Lateral length=		985	Upstream length=		5406		

\*\*\* WHITTIER LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
16	59	8	596.17 595.70	0.0080	0.0 0.0	0.0 0.0	1.00 0.10	0.01	1.43 0.69		
17	271	8	602.50 593.04	0.0349	0.0 0.0	0.0 0.0	2.18 0.11	0.02	1.70 1.45		
18	636	8	592.85 586.54	0.0099	0.0 0.0	0.0 0.0	1.52 0.17	0.03	4.48 0.77		
19	49	8	586.37 586.22	0.0031	0.1 0.0	0.0 0.0	1.16 0.30	0.07	15.77 0.43		
20	675	8	586.22 580.52	0.0084	0.1 0.0	0.0 0.0	1.76 0.26	0.08	10.73 0.71		
21	326	8	580.52 577.57	0.0090	0.1 0.0	0.0 0.0	1.96 0.30	0.11	14.99 0.74		
22	326	8	577.57 571.73	0.0179	0.1 0.0	0.0 0.0	2.56 0.26	0.11	10.66 1.04		
23	329	12	571.73 568.69	0.0092	0.4 0.0	0.0 0.0	2.78 0.33	0.42	19.14 2.19		
24	220	12	568.69 567.02	0.0076	0.4 0.0	0.0 0.0	2.60 0.35	0.42	21.10 1.99		
25	109	12	567.02 566.09	0.0085	0.4 0.0	0.0 0.0	2.75 0.35	0.44	20.99 2.11		

C:\HYDRA\HEMET\LINE-K20.CMD

9:18 22-May-90

LINE K AT STETSON AND KIRBY

\*\*\* WHITTIER LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
26	329	12	566.09 563.49	0.0079	0.5 0.0	0.0 0.0	2.72 0.37	0.46	22.79 2.03		
27	329	12	563.49 560.93	0.0078	0.5 0.0	0.0 0.0	2.71 0.37	0.46	22.97 2.02		
28	111	12	560.93 560.00	0.0084	0.5 0.0	0.0 0.0	2.94 0.40	0.54	25.99 2.09		
29	250	12	560.00 556.45	0.0142	0.6 0.0	0.0 0.0	3.53 0.35	0.56	20.58 2.72		
30	70	12	556.45 555.45	0.0143	0.6 0.0	0.0 0.0	3.57 0.35	0.58	21.13 2.73		
31	550	12	555.45 553.77	0.0031	0.6 0.0	0.0 0.0	2.12 0.55	0.60	47.70 1.26		
32	268	12	553.77 551.75	0.0075	0.6 0.0	0.0 0.0	2.91 0.43	0.60	30.37 1.98		
33	213	12	551.75 550.84	0.0043	0.7 0.0	0.0 0.0	2.48 0.54	0.69	46.49 1.49		
34	331	12	550.84 549.78	0.0032	0.7 0.0	0.0 0.0	2.25 0.59	0.69	53.65 1.29		
35	326	12	549.78 548.69	0.0033	0.7 0.0	0.0 0.0	2.28 0.58	0.69	52.39 1.32		
36	326	12	548.69 547.60	0.0033	0.7 0.0	0.0 0.0	2.28 0.58	0.69	52.39 1.32		
37	326	12	547.60 546.50	0.0034	0.7 0.0	0.0 0.0	2.29 0.58	0.69	52.15 1.33		

-----  
 Lateral length= 6430                      Upstream length= 11836

\*\*\* LYON EAST LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
38	326	15	546.50	0.0016	0.7	0.0	1.72	0.69	41.44		

C:\HYDRA\HEMET\LINE-K20.CMD

9:18 22-May-90

LINE K AT STETSON AND KIRBY

\*\*\* LYON EAST LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
39	326 15	545.97 545.44	0.0016	0.7 0.0	0.0 0.0	1.73 0.52	0.71	42.70 1.67		
40	326 15	545.44 544.91	0.0016	0.9 0.0	0.0 0.0	1.84 0.58	0.87	52.05 1.67		
41	328 15	544.91 544.37	0.0016	0.9 0.0	0.0 0.0	1.85 0.58	0.87	51.72 1.68		
-----				Lateral length= 1306		Upstream length=		13142		

\*\*\* MAYBERRY LATERAL

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
42	168 8	576.58 573.09	0.0208	0.0 0.0	0.0 0.0	0.93 0.05	0.00	0.40 1.12		
43	162 8	573.09 568.81	0.0264	0.0 0.0	0.0 0.0	1.58 0.09	0.01	0.96 1.26		
44	125 8	568.81 568.81	0.0000	0.1 0.0	0.0 0.0	0.00 0.00	0.05	999.99 0.00	0.00	0 0
45	250 8	568.81 567.93	0.0035	0.1 0.0	0.0 0.0	1.22 0.29	0.07	14.54 0.46		
46	214 8	567.93 566.59	0.0063	0.1 0.0	0.0 0.0	1.58 0.28	0.08	12.91 0.61		
47	333 8	566.59 563.16	0.0103	0.2 0.0	0.0 0.0	2.45 0.39	0.20	24.96 0.79		
48	335 8	563.16 557.80	0.0160	0.2 0.0	0.0 0.0	2.88 0.35	0.21	21.02 0.98		
49	326 8	557.80 556.11	0.0052	0.2 0.0	0.0 0.0	1.98 0.49	0.22	38.87 0.56		
50	503 8	556.11 553.52	0.0051	0.2 0.0	0.0 0.0	2.02 0.51	0.23	42.21 0.56		

C:\HYDRA\HEMET\LINE-K20.CMD

9:18 22-May-90

LINE K AT STETSON AND KIRBY

\*\*\* MAYBERRY LATERAL

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep	
51	368	8	553.52 551.09	0.0066	0.2 0.0	0.0 0.0	2.23 0.49	0.24	38.52 0.63			
52	750	8	551.09 546.61	0.0060	0.3 0.0	0.0 0.0	2.26 0.55	0.28	47.58 0.60			
53	192	8	546.61- 554.20	0.0395	0.3 0.0	0.0 0.0	0.00 0.00	0.31	999.99 0.00	0.00	0 0	
-----												
Lateral length=				3726	Upstream length=				3726			

\*\*\* LYON/ARBOR/ROSE/ORCHID TRUNK

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
54	251	15	544.37 543.98	0.0016	1.2 0.0	0.0 0.0	1.98 0.71	1.16	71.34 1.63		
55	12	15	543.98 542.92	0.0883	1.2 0.0	0.0 0.0	8.45 0.25	1.16	9.45 12.31		
56	376	24	542.92 540.10	0.0075	1.2 0.0	0.0 0.0	3.35 0.25	1.16	9.26 12.56		
57	380	24	540.10 537.25	0.0075	1.2 0.0	0.0 0.0	3.35 0.25	1.16	9.25 12.57		
58	760	24	537.25 531.16	0.0080	1.2 0.0	0.0 0.0	3.43 0.24	1.17	9.03 12.99		
59	77	24	531.16- 532.18	0.0132	1.8 0.0	0.0 0.0	0.00 0.00	1.75	999.99 0.00	0.00	0 0
60	145	24	532.18 530.49	0.0116	1.8 0.0	0.0 0.0	4.34 0.26	1.75	11.21 15.65		
61	350	24	530.49 530.04	0.0013	1.8 0.0	0.0 0.0	1.97 0.45	1.76	33.91 5.20		
62	279	24	528.95 527.99	0.0034	1.8 0.0	0.0 0.0	2.76 0.35	1.76	20.69 8.51		

C:\HYDRA\HEMET\LINE-K20.CMD

9:18 22-May-90

LINE K AT STETSON AND KIRBY

\*\*\* LYON/ARBOR/ROSE/ORCHID TRUNK

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
63	135 24	527.99 527.57	0.0031	1.8 0.0	0.0 0.0	2.67 0.36	1.76	21.72 8.10		
64	170 24	527.57 527.04	0.0031	1.8 0.0	0.0 0.0	2.67 0.36	1.76	21.73 8.09		
65	140 24	527.04 526.61	0.0031	1.8 0.0	0.0 0.0	2.66 0.36	1.77	21.96 8.04		
66	315 24	526.61 525.63	0.0031	1.8 0.0	0.0 0.0	2.67 0.36	1.77	21.81 8.09		
67	232 24	525.63 524.91	0.0031	1.8 0.0	0.0 0.0	2.67 0.36	1.76	21.84 8.08		
68	177 24	524.91 524.36	0.0031	1.8 0.0	0.0 0.0	2.67 0.36	1.77	21.86 8.09		
69	177 24	524.36 523.81	0.0031	1.8 0.0	0.0 0.0	2.67 0.36	1.77	21.85 8.09		
70	352 24	523.81 522.62	0.0034	1.8 0.0	0.0 0.0	2.76 0.35	1.80	21.32 8.43		
71	127 24	522.62 522.13	0.0038	1.8 0.0	0.0 0.0	2.89 0.34	1.80	19.95 9.00		
72	555 24	522.13 520.31	0.0033	1.8 0.0	0.0 0.0	2.73 0.36	1.79	21.60 8.31		
73	341 24	520.31 519.27	0.0031	1.8 0.0	0.0 0.0	2.68 0.37	1.82	22.66 8.02		
74	340 24	519.27 518.22	0.0031	1.8 0.0	0.0 0.0	2.69 0.36	1.81	22.50 8.06		
75	176 24	518.22 517.57	0.0037	1.8 0.0	0.0 0.0	2.85 0.35	1.81	20.56 8.81		
76	307 24	517.57 516.62	0.0031	1.8 0.0	0.0 0.0	2.70 0.36	1.82	22.57 8.07		
77	297 24	516.62 515.60	0.0034	1.8 0.0	0.0 0.0	2.79 0.35	1.82	21.41 8.50		

C:\HYDRA\HEMET\LINE-K20.CMD

9:18 22-May-90

LINE K AT STETSON AND KIRBY

\*\*\* LYON/ARBOR/ROSE/ORCHID TRUNK

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
78	202 24	515.60 514.97	0.0031	1.9 0.0	0.0 0.0	2.73 0.37	1.87	23.14 8.10		
-----				Lateral length= 6676		Upstream length=		23544		

\*\*\* KIRBY TRUNK SEWER

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
79	319 8	535.73 534.61	0.0035	0.0 0.0	0.0 0.0	0.88 0.17	0.02	4.03 0.46		
80	670 8	534.61 532.26	0.0035	0.0 0.0	0.0 0.0	0.88 0.17	0.02	4.03 0.46		
81	650 8	532.26 530.07	0.0034	0.1 0.0	0.0 0.0	1.15 0.28	0.06	12.62 0.45		
82	10 8	530.07 530.07	0.0000	0.1 0.0	0.0 0.0	0.00 0.00	0.09	999.99 0.00	0.00	0 0
83	360 10	530.07 529.14	0.0026	0.1 0.0	0.0 0.0	1.17 0.28	0.09	12.61 0.71		
84	313 10	529.14 528.51	0.0020	0.1 0.0	0.0 0.0	1.06 0.29	0.09	14.29 0.63		
85	182 10	528.51 528.32	0.0010	0.1 0.0	0.0 0.0	0.86 0.35	0.10	21.34 0.45		
86	86 10	528.32 528.02	0.0035	0.1 0.0	0.0 0.0	1.34 0.27	0.10	11.65 0.83		
87	272 10	528.02 527.58	0.0016	0.1 0.0	0.0 0.0	1.10 0.37	0.13	23.59 0.57		
88	272 10	527.58 527.15	0.0016	0.2 0.0	0.0 0.0	1.20 0.44	0.18	32.50 0.56		
89	272 10	527.15 526.71	0.0016	0.2 0.0	0.0 0.0	1.21 0.44	0.18	32.13 0.57		

C:\HYDRA\HEMET\LINE-K20.CMD

9:18 22-May-90

LINE K AT STETSON AND KIRBY

\*\*\* KIRBY TRUNK SEWER

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
90	227 10	526.71 526.35	0.0016	0.2 0.0	0.0 0.0	1.29 0.51	0.23	41.06 0.56		
91	100 10	526.35 526.19	0.0016	0.2 0.0	0.0 0.0	1.30 0.51	0.23	40.90 0.56		
92	280 10	526.19 524.81	0.0049	0.3 0.0	0.0 0.0	2.02 0.40	0.27	26.88 0.99		
93	300 10	524.81 524.09	0.0024	0.3 0.0	0.0 0.0	1.56 0.49	0.27	38.51 0.69		
94	425 10	524.09 523.07	0.0024	0.3 0.0	0.0 0.0	1.64 0.54	0.31	45.55 0.69		
95	460 10	523.07 521.27	0.0039	0.3 0.0	0.0 0.0	2.00 0.49	0.35	39.29 0.88		
96	460 10	521.27 519.48	0.0039	0.3 0.0	0.0 0.0	2.00 0.50	0.35	39.40 0.88		
97	390 10	519.48 517.96	0.0039	0.3 0.0	0.0 0.0	2.00 0.50	0.34	39.33 0.88		
98	590 10	517.96 515.60	0.0040	0.4 0.0	0.0 0.0	2.08 0.52	0.39	43.33 0.89		
99	340 10	515.60 514.97	0.0019	0.4 0.0	0.0 0.0	1.60 0.65	0.38	63.59 0.60		
100	17 24	514.97 514.82	0.0089	2.2 0.0	0.0 0.0	4.15 0.31	2.24	16.37 13.69		
101	68 24	514.82 514.51	0.0046	2.2 0.0	0.0 0.0	3.29 0.37	2.24	22.84 9.81		

-----  
 Lateral length= 7062                      Upstream length= 30605

C:\HYDRA\HEMET\LINE-L.CMD

9:19 22-May-90

Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINE-L.CMD
Input units are read as      : USA
* Output sent to display    : Brief
* Output sent to printer    : Brief
* Output sent to file       : Off
Paper width in inches       : 8.000
String to reset printer     : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer             : Hewlett-Packard, LaserJet/LaserJet I
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes       : 15
Significant flow in hydrograph : 0.010
* Maximum plot value         : Selected by HYDRA
Type of hydrographic plot    : Compact

Sanitary flow by            : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations           : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe : 0.00 or Invert
* Number of allowable diam drops : 999
* Minimum drop thru manhole : 0.000
Routing technique          : Quick

* Calculate sanitary flows : True
* Calculate infiltration flows : True
* Calculate storm flows : True
* Calculate misc flows : True
```

-----

```
1: JOB LINE L AT STETSON & RIBBONWOOD CT.
2:
3: REM --- PIPE AND PIPE COST DATA ---
4: PDA .013 8 8 7.5 3 .004
5: CST 1.5 1 3/.2 .5 .5 2.87 /.5 0 1.63+
6:      1.15/ .89 1.1 1.43 4.78
7: EXC 0/.45 18/.45 30/1.12
8: TSL 0/0 6/0 6.001/.5 30/.5
9: PCO 8/2.78 10/4.10 18/9.16 36/18.23
10: REM --- SANITARY CRITERIA ---
11: GPC 100
12: REM MODEL RUN FOR 1990 CONDITIONS
13:
```

:\HYDRA\HEMET\LINE-L.CMD

9:19 22-May-90

14: NEW BRENTWOOD WAY TRUNK  
15: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.5 (R-1)  
16: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 167.55+  
17: 166.67 156.81 134.83 138.13 141.07 118.64 131.29 139.26+  
18: 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
19: SAN 5.2 2.7  
20: SAN 8.4 11.0 4.0  
21: SAN 23.6 4.0 6.7  
22: SAN 8.5 7.1 7.1  
23: SAN 26.2 0.0 10.4  
24: SAN 15.8 11.0 11.5  
25: SAN 19.2 8.6 15.9  
26: PIP 400 535.0 533.71 524.19 522.79 -10! L-45 TO 35  
27: SAN 11.3 3.8  
28: SAN 18.9 11.0 7.2  
29: PIP 51 533.71 532.16 522.79 522.46 -10! 35 TO 34  
30: PIP 300 532.16 530.51 522.46 521.56 -10! 34 TO 33  
31: PIP 206.12 530.51 529.21 521.56 520.81 -10! 33 TO 29  
32: SAN 11.4 3.7  
33: SAN 6.2 11.0  
34: PIP 157.33 529.21 529.21 520.81 520.31 -10! 29 TO 28  
35:  
36: HCL BRENTWOOD  
37:  
38: NEW BASSWOOD WAY TRUNK  
39: REC BRENTWOOD  
40: PIP 291.48 529.21 528.47 520.31 519.38 -10! 28 TO 26  
41: SAN 1.4 11.0  
42: SAN 4.6 2.5  
43: PIP 250 528.47 527.73 519.38 518.58 -10! 26 TO 23  
44: SAN 2.0 11.0  
45: SAN 4.6 2.5  
46: PIP 259.92 527.73 526.85 518.58 517.74 -10! 23 TO 20  
47: SAN 2.0 11.0  
48: SAN 4.5 2.6  
49: PIP 251.19 526.85 526.10 517.74 516.94 -10! 20 TO 17  
50: SAN 2.0 11.0  
51: SAN 4.5 2.6  
52: PIP 369 526.10 526.57 516.94 515.76 -10! 17 TO 14  
53: SAN 3.5 2.6  
54: SAN 2.7 11.0  
55: PIP 259.86 526.57 525.79 515.76 514.93 -10! 14 TO 12  
56: SAN 3.5 2.6  
57: SAN 2.7 11.0  
58: PIP 260 525.79 524.97 514.93 514.0 -10 ! 12 TO 11  
59: SAN 6.8 14  
60: PIP 253.4 524.97 525.63 514.0 513.09 -10 ! 11 TO 2  
61: SAN 9.1 11.0 3.3  
62: PIP 288 525.63 526.5 513.09 512.17 -10 ! 2 TO 1  
63: PIP 62.04 526.5 526.73 512.17 511.8 -10 ! L-1 TO L  
64: END

-----  
C:\HYDRA\HEMET\LINE-L.CMD

9:19 22-May

----- S U M M A R Y    O F    A N A L Y S I S -----

Run number on command file :	1
Number of links :	15
Number of hydrographs :	56
Total sanitary population :	1362
Total sanitary area :	208.60 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	3659.34 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

C:\HYDRA\HEMET\LINE-L.CMD

9:19 22-May-90

LINE L AT STETSON & RIBBONWOOD CT.

\*\*\* BASSWOOD WAY TRUNK

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
13	253	10	514.00 513.09	0.0036	0.2 0.0	1.60 0.36	0.18	21.61 0.84		
14	288	10	513.09 512.17	0.0032	0.2 0.0	1.58 0.38	0.20	24.68 0.79		
15	62	10	512.17 511.80	0.0060	0.2 0.0	1.95 0.32	0.20	18.05 1.08		
			-----							
			Lateral length=		2545	Upstream length=		3659		

-----  
\\HYDRA\HEMET\LINE-L20.CMD

9:20 22-May-90

Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINE-L20.CMD
Input units are read as      : USA
* Output sent to display    : Brief
* Output sent to printer    : Brief
* Output sent to file      : Off
Paper width in inches       : 8.000
String to reset printer     : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer             : Hewlett-Packard, LaserJet/LaserJet F
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes       : 15
Significant flow in hydrograph : 0.010
* Maximum plot value        : Selected by HYDRA
Type of hydrographic plot    : Compact

Sanitary flow by            : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations           : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe : 0.00 or Invert
* Number of allowable diam drops : 999
* Minimum drop thru manhole : 0.000
Routing technique          : Quick

* Calculate sanitary flows : True
* Calculate infiltration flows : True
* Calculate storm flows : True
* Calculate misc flows : True
```

-----  
1: JOB LINE L AT STETSON & RIBBONWOOD CT.  
2:  
3: REM --- PIPE AND PIPE COST DATA ---  
4: PDA .013 8 8 7.5 3 .004  
5: CST 1.5 1 3/.2 .5 .5 2.87 /.5 0 1.63+  
6: 1.15/ .89 1.1 1.43 4.78  
7: EKC 0/.45 18/.45 30/1.12  
8: TSL 0/0 6/0 6.001/.5 30/.5  
9: PCO 8/2.78 10/4.10 18/9.16 36/18.23  
10: REM --- SANITARY CRITERIA ---  
11: GPC 100  
12: REM MODEL RUN FOR 2010 CONDITIONS  
13:

=====  
C:\HYDRA\HEMET\LINE-L20.CMD

9:20 22-May-90

14: NEW BRENTWOOD WAY TRUNK  
15: REM THE FOLLOWING IS BASED ON DIURNAL CURVE OF M.H.5 (R-1)  
16: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 167.55+  
17: 166.67 156.81 134.83 138.13 141.07 118.64 131.29 139.26+  
18: 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
19: SAN 5.2 21.5  
20: SAN 8.4 28.0 4.0  
21: SAN 23.6 10.2 6.7  
22: SAN 8.5 18.1 7.1  
23: SAN 26.2 22.0 10.4  
24: SAN 15.8 28.0 11.5  
25: SAN 19.2 21.8 15.9  
26: PIP 400 535.0 533.71 524.19 522.79 -10! L-45 TO 35  
27: SAN 11.3 40.8  
28: SAN 18.9 28.0 7.2  
29: PIP 51 533.71 532.16 522.79 522.46 -10! 35 TO 34  
30: PIP 300 532.16 530.51 522.46 521.56 -10! 34 TO 33  
31: PIP 206.12 530.51 529.21 521.56 520.81 -10! 33 TO 29  
32: SAN 11.4 40.9  
33: SAN 6.2 28.0  
34: PIP 157.33 529.21 529.21 520.81 520.31 -10! 29 TO 28  
35:  
36: HOL BRENTWOOD  
37:  
38: NEW BASSWOOD WAY TRUNK  
39: REC BRENTWOOD  
40: PIP 291.48 529.21 528.47 520.31 519.38 -10! 28 TO 26  
41: SAN 1.4 28.0  
42: SAN 4.6 43.2  
43: PIP 250 528.47 527.73 519.38 518.58 -10! 26 TO 23  
44: SAN 2.0 28.0  
45: SAN 4.6 43.2  
46: PIP 259.92 527.73 526.85 518.58 517.74 -10! 23 TO 20  
47: SAN 2.0 28.0  
48: SAN 4.5 53.3  
49: PIP 251.19 526.85 526.10 517.74 516.94 -10! 20 TO 17  
50: SAN 2.0 28.0  
51: SAN 4.5 53.3  
52: PIP 369 526.10 526.57 516.94 515.76 -10! 17 TO 14  
53: SAN 3.5 53.3  
54: SAN 2.7 28.0  
55: PIP 259.86 526.57 525.79 515.76 514.93 -10! 14 TO 12  
56: SAN 3.5 53.3  
57: SAN 2.7 28.0  
58: PIP 260 525.79 524.97 514.93 514.0 -10 ! 12 TO 11  
59: SAN 6.8 14  
60: PIP 253.4 524.97 525.63 514.0 513.09 -10 ! 11 TO 2  
61: SAN 9.1 28.0 3.3  
62: PIP 288 525.63 526.5 513.09 512.17 -10 ! 2 TO 1  
63: PIP 62.04 526.5 526.73 512.17 511.8 -10 ! L-1 TO L  
64: END

-----  
:\HYDRA\HEMET\LINE-L20.CMD

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----- S U M M A R Y     O F     A N A L Y S I S -----

Run number on command file :	1
Number of links :	15
Number of hydrographs :	56
Total sanitary population :	5768
Total sanitary area :	208.60 Acres
Total storm area :	0.00 Acres
Number of pumps :	0
Number of reservoirs :	0
Number of diversion structures :	0
Number of inlets :	0
Length of new pipe :	0.00 Feet
Length of existing pipe :	3659.34 Feet
Length of channel :	0.00 Feet
Length of gutter :	0.00 Feet
Length of transport units :	0.00 Feet
Length of pressure pipe :	0.00 Feet

C:\HYDRA\HEMET\LINE-L20.CMD

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LINE L AT STETSON & RIBBONWOOD CT.

\*\*\* BRENTWOOD WAY TRUNK

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	400 10	524.19 522.79	0.0035	0.3 0.0	0.0 0.0	1.88 0.49	0.32	38.18 0.83		
2	51 10	522.79 522.46	0.0065	0.5 0.0	0.0 0.0	2.61 0.51	0.46	40.84 1.13		
3	300 10	522.46 521.56	0.0030	0.5 0.0	0.0 0.0	2.00 0.63	0.46	59.99 0.77		
4	206 10	521.56 520.81	0.0036	0.5 0.0	0.0 0.0	2.14 0.59	0.46	54.47 0.85		
5	157 10	520.81 520.31	0.0032	0.6 0.0	0.0 0.0	2.15 0.70	0.55	70.05 0.79		
-----				Lateral length= 1114		Upstream length=		1114		

\*\*\* BASSWOOD WAY TRUNK

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
6	291 10	520.31 519.38	0.0032	0.6 0.0	0.0 0.0	2.15 0.70	0.55	69.91 0.79		
7	250 10	519.38 518.58	0.0032	0.6 0.0	0.0 0.0	2.20 0.72	0.59	74.17 0.79		
8	260 10	518.58 517.74	0.0032	0.6 0.0	0.0 0.0	2.24 0.75	0.63	78.41 0.80		
9	251 10	517.74 516.94	0.0032	0.7 0.0	0.0 0.0	2.27 0.79	0.67	84.38 0.79		
10	369 10	516.94 515.76	0.0032	0.7 0.0	0.0 0.0	2.31 0.82	0.71	89.59 0.79		
11	260 10	515.76 514.93	0.0032	0.7 0.0	0.0 0.0	2.34 0.86	0.75	94.39 0.79		
12	260 10	514.93 514.00	0.0036	0.8 0.0	0.0 0.0	2.47 0.85	0.79	93.70 0.84		

C:\HYDRA\HEMET\LINE-L20.CMD

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LINE L AT STETSON & RIBBONWOOD CT.

\*\*\* BASSWOOD WAY TRUNK

Analysis of Existing Pipes

Link	Long Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
13	253 10	514.00 513.09	0.0036	0.8 0.0	0.0 0.0	2.48 0.86	0.80	95.12 0.84		
14	288 10	513.09 512.17	0.0032	0.8 0.0	0.0 0.0	2.36 0.90	0.84	105.48 0.79	0.04	8 18
15	62 10	512.17 511.80	0.0060	0.8 0.0	0.0 0.0	3.03 0.74	0.84	77.16 1.08		
-----				Lateral length= 2545		Upstream length=		3659		

C:\HYDRA\HEMET\LINE-T.CMD

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Status of DEFAULTS at start of run. ( \* May be reset by SET)

```
Command file : C:\HYDRA\HEMET\LINE-T.CMD
Input units are read as      : USA
* Output sent to display    : Brief
* Output sent to printer    : Brief
* Output sent to file       : Off
Paper width in inches       : 8.000
String to reset printer     : 27 38 108 54 68 27 40 115 49 48 72
String to set printer to compressed : 17.16 27 38 107 48 56 72
String to set printer to 8 lines/inch : 8 27 38 108 56 68
Name of printer             : Hewlett-Packard, LaserJet/LaserJet I
Print heading at top of page : True

Number of steps in hydrograph : 96
Step length in minutes       : 15
Significant flow in hydrograph : 0.010
* Maximum plot value         : Selected by HYDRA
Type of hydrographic plot    : Compact

Sanitary flow by            : Diurnal Curve
Delay to start of actual storm : 0.00
Rational Method computations : Off
SCS computations            : Santa Barbara
Continuous simulation computations : On

* Maximum d/D for pipe design/analysis : 0.900
* Match point position on pipe : 0.00 or Invert
* Number of allowable diam drops : 999
* Minimum drop thru manhole : 0.000
Routing technique          : Quick

* Calculate sanitary flows : True
* Calculate infiltration flows : True
* Calculate STORM FLOWS : True
* Calculate misc flows : True
```

```
-----
1: JOB LINE T AT DEVONSHIRE & GILBERT
2:
3: REM --- PIPE AND PIPE COST DATA ---
4: PDA .013 8 8 7.5 3 .004
5: CST 1.5 1 3 / .2 .5 .5 2.87 / .5 0 1.63 +
6:      1.15 / .89 1.1 1.43 4.78
7: EXC 0/.45 18/.45 30/1.12
8: TSL 0/0 6/0 6.001/.5 30/.5
9: PCO 8/2.78 10/4.10 18/9.16 36/18.23
10:
11: REM --- SANITARY CRITERIA ---
12: GPC 100
13: REM <----- INDICATES ADDITIONAL INFO REQUIRED
```

=====  
C:\HYDRA\HEMET\LINE-T.CMD

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14: REM THIS MODEL RUN IS FOR 1990 CONDITIONS  
15: REM THE FOLLOWING ARE GHOST SYSTEMS UPSTREAM OF MAYBERRY  
16: REM USE MH 5 DIURNAL CURVE  
17: DIU 53.67 46.85 44.76 48.62 65.47 108.26 159.47 172.14 +  
18:       167.55 166.67 156.81 134.83 138.13 141.07 118.64 131.29 +  
19:       139.26 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
20:  
21: NEW GHOST1 ! MAYBERRY & SANTA FE  
22: SAN 8.3 13.4 2.5  
23: SAN 6.6 28.8 4.4  
24: SAN 3.1 13.4 1.7  
25: SAN 11.6 27.1 6.1  
26: PIP 1.0 100 100 150 150 -8 ! DUMMY PIPE  
27: HOL GHOST1  
28:  
29: NEW GHOST2 ! MAYBERRY & TAYLOR  
30: SAN 7.9 13.4  
31: SAN 14.9 32.6 13.3  
32: SAN 6.0 10.7 9.4  
33: PIP 1.0 100 100 150 150 -8 ! DUMMNY PIPE  
34: HOL GHOST2  
35:  
36: NEW GHOST3 ! MAYBERRY & BUENA VISTA  
37: SAN 16.4 10.7 15.8  
38: SAN 5.1 12.0 17.5  
39: SAN 7.2 10.7 13.3  
40: SAN 8.2 10.7 9.2  
41: SAN 4.4 13.4 3.1  
42: SAN 2.9 13.4 4.7  
43: SAN 5.4 13.4 7.5  
44: SAN 6.4 6.3 ! CHURCH - ASSUME EQ TO 40 PEOPLE  
45: PIP 1.0 100 100 150 150 -8 ! DUMMY PIPE  
46: HOL GHOST3  
47:  
48: NEW GHOST4 ! DEVONSHIRE NEAR HEMET JR HIGH  
49: SAN 3.4 32.6 0.0  
50: SAN 1.9 32.6 4.6  
51: SAN 4.0 32.6 6.4  
52: SAN 30.4 16.28 8.3 ! HEMET JR HIGH PER M&E-REVISE LATER <---  
53: SAN 10.1 24.5 11.4  
54: PIP 1.0 100 100 150 150 -8 ! DUMMY PIPE  
55: HOL GHOST4  
56:  
57: NEW GHOST5  
58: SAN 3.3 14 13.1 ! ALL COMMERCIAL - 100% DEVELOPED  
59: SAN 2.7 30 10  
60:  
61: SAN 13.2 14 16.6  
62:  
63: SAN 5.4 14 3.5  
64:  
65: PIP 1.0 100 100 150 150 -8 ! DUMMNY PIP

=====  
C:\HYDRA\HEMET\LINE-T.CMD

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```
66: HOL GHOST5
67:
68: REM BEGIN ANALYSIS * * * * *
69:
70: NEW CALHOUN PLACE
71:
72: REM THE FOLLOWING IS ACTUAL DIURNAL CURVE OF M.H. 1
73:
74: DIU 21.76 17.93 16.57 17.52 21.63 29.33 36.80 37.28 +
75:
76:          56.26 71.05 55.59 43.79 43.08 70.31 67.55 44.92 +
77:
78:          36.08 34.03 49.95 63.80 43.19 33.58 30.93 25.53
79:
80: SAN 8.2 60.98 8.6 ! P.E. OF 434 BEDS -- SEE CALC'S
81: SAN 5.5 14 3.6 ! COMM - 100% DEVELOPED
82:
83: SAN 3.4 14 ! ZONED R-P
84: PIP 328.15 603.28 600.50 598.40 596.54 -8 ! T-66 TO t-67
85: PIP 342.17 600.50 599.25 596.54 591.35 -8 ! T-67 TO T-22
86:
87: HOL CALHOUN DRIVE
88:
89: NEW BUENA VISTA LATERAL
90: SAN 2.4 14 1.7
91:
92: SAN 5.9 32.6
93: REC GHOST5
94: PIP 312.7 599.25 598.9 591.35 590.46 -8 ! T-22 TO T-21
95: HOL BUENA VISTA
96:
97: NEW DEVONSHIRE LATERAL
98: SAN 1.8 14 8.3
99: REC GHOST4
100: PIP 325.44 601.75 599.49 595.17 591.32 -10 ! T-34 TO T-31
101:
102: SAN 2.6 32.6
103:
104: PIP 167.67 599.49 597.87 591.32 590.46 -10 ! T-31 TO T-21
105:
106: SAN 1.6 32.6
107: REC BUENA VISTA
108: PIP 324.4 597.87 596.34 590.46 589.77 -10 ! T-21 TO T-20
109:
110: SAN 6.1 10.1
111: PIP 338.45 596.34 593.56 589.77 587.75 -10 ! T-20 TO T-19
112:
113: SAN 5.2 14
114: PIP 321.0 593.56 591.06 587.75 584.89 -10 ! T-19 TO T-17
115:
116: SAN 2.0 14
117:
```

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118: PIP 329.84 591.06 588.09 584.89 581.36 -10 ! T-17 TO T-6  
119:  
120: SAN 1.7 4.4  
121:  
122: PIP 53 588.09 588.70 581.36 581.70 -10 ! T-6 TO T-5  
123: PIP 325 588.70 588.33 581.70 581.33 -10 ! T-5 TO T-4  
124:  
125: SAN 4.6 22.7  
126:  
127: PIP 334 588.33 586.14 581.33 579.04 -10 ! T-4 TO T-3  
128:  
129: SAN 4.6 19.8  
130:  
131: PIP 333 586.14 584.0 579.04 576.70 -10 ! T-3 TO T-2  
132:  
133: SAN 9.2 32.7  
134:  
135: PIP 330 584.0 581.67 576.7 574.35 -10 ! T-2 TO T-1  
136:  
137: HOL DEVONSHIRE  
138:  
139: NEW CENTRAL LATERAL  
140:  
41: REM USE M.H.5 DIUNRAL CURVE (R-1)  
42:  
143: DIU 53.67 46.85 44.76 48.62 65.47 100.26 150.17 172.14 +  
144:  
145: 167.55 166.67 156.81 134.83 138.13 141.07 118.64 131.29+  
146:  
147:  
148: 120.26 156.17 155.95 143.65 127.75 104.19 87.91 67.28  
149: SAN 3.0 32.6 6.7  
150:  
151: SAN 11.7 29.3  
152:  
153: DIV OVERFLOW 0 0.67 0/0 0.52/0 1.52/1  
154:  
155: PIP 331 608.79 605.58 601.29 599.85 -8 ! T-211 TO T-210  
156: SAN 3.4 13.4 3.65  
157:  
158: SAN 2.8 13.4 2.74  
159:  
160: SAN 2.7 13.4 0.93  
161:  
162: SAN 1.9 13.4  
163:  
164: PIP 162 600.8 599.17 594.52 594.20 -8 ! T-210,207,204,202,201  
165:  
66: SAN 1.9 13.4 3.2  
67:  
168: SAN 4.4 32.6 1.83  
169:

=====  
C:\HYDRA\HEMET\LINE-T.CMD

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170: SAN 2.4 14 1.83  
171:  
172: PIP 169.2 599.17 598.47 594.2 593.34 -8 ! T-201 TO 198  
173:  
174: PIP 332.7 598.47 595.19 593.32 589.26 -8!T-198,197,194  
175:  
176: PIP 326.9 595.19 592.15 589.24 586.22 -8!T-194 TO 191  
177:  
178: SAN 3.4 13.4  
179:  
180: PIP 326.7 592.15 589.11 586.28 583.21 -8!191 TO 189  
181:  
182: SAN 6.3 32.6  
183:  
184: PIP 329 589.11 585.1 583.23 580.32 -10!189 TO 188  
185:  
186: HOL CENTRAL  
187:  
188: NEW MAYBERRY DIVERSION  
189:  
190:  
191: REC OVERFLOW  
192:  
193: PIP 311.48 608.79 607.30 601.29 600.31 -8!T-211 TO 212  
194: PIP 361.75 607.3 605.35 600.31 598.79 -8!T-212 TO 168  
195: HOL MAYBERRY\_DIV  
196:  
197: NEW ACACIA LATERAL  
198:  
199: REM SAME DIURNAL CURVE M.H.5  
200:  
201: SAN 3.7 26.9 5.56  
202:  
203: SAN 1.7 29.1 5.56  
204:  
205: SAN 1.7 29.1 3.72  
206:  
207: SAN 1.7 29.1 3.72  
208:  
209: SAN 1.7 29.1 1.78  
210:  
211: SAN 1.7 29.1 1.78  
212:  
213: SAN 3.4 13.4  
214:  
215: REC MAYBERRY\_DIV  
216:  
217:  
218: DIV BUENAVISTA 0 0.67 0/0 0.59/0 1.59/1  
219:  
220:  
221: PIP 330 605.35 603.23 598.79 596.92 -8!T-168 TO 170  
222:

C:\HYDRA\HEMET\LINE-T.CMD

9:24 22-May-90

LINE T AT DEVONSHIRE & GILBERT

\*\*\* GHOST1

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
1	1	8	150.00 150.00	0.0000	0.1 0.0	0.0 0.0	0.00 0.00	0.10	999.99 0.00	0.00	0 0
-----					Lateral length=		1	Upstream length=		1	

\*\*\* GHOST2

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
2	1	8	150.00 150.00	0.0000	0.1 0.0	0.0 0.0	0.00 0.00	0.10	999.99 0.00	0.00	0 0
-----					Lateral length=		1	Upstream length=		1	

\*\*\* GHOST3

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
3	1	8	150.00 150.00	0.0000	0.1 0.0	0.0 0.0	0.00 0.00	0.09	999.99 0.00	0.00	0 0
-----					Lateral length=		1	Upstream length=		1	

\*\*\* GHOST4

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
4	1	8	150.00 150.00	0.0000	0.2 0.0	0.0 0.0	0.00 0.00	0.15	999.99 0.00	0.00	0 0
-----					Lateral length=		1	Upstream length=		1	

\*\*\* GHOST5

Analysis of Existing Pipes

Link	Long	Diam	Invert Up/Dn	Slope	San Inf	Sto Mis	Vel d/D	Design MGD	% Cap Q Full	Remove	Par Rep
5	1	8	150.00	0.0000	0.1	0.0	0.00	0.06	999.99	0.00	0