

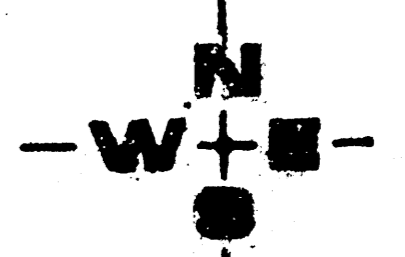
NO SCALE
AREA MAP
 FOR SHEETS 1 AND 2
 BENCH MARK: CITY STANDARD 44' S. & 46' W. OF
 CENTERLINE OF ROCK ROAD AND 28TH ST. NORTH. ELEV. 213.30

DRAINAGE & UTILITY PLAN

SHEET 1 OF 2

MEDITERRANEAN PLAZA

MEDITERRANEAN PLAZA COMMERCIAL ADDITION (DRAFTING)



CONTOUR INTERVAL - 1'
 SCALE: 1" = 100'

SUMMARY OF INPUT DATA

PIPE NO.	WACE	INCHES	LENGTH	DEMAND	VALVE	FACT	LOSS	LOSS
1	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0
2	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
3	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
4	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
5	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
6	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
7	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
8	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
9	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
10	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
11	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
12	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
13	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
14	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
15	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
16	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
17	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
18	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
19	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
20	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
21	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
22	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
23	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
24	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
25	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
26	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
27	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
28	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
29	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
30	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
31	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
32	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
33	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
34	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
35	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
36	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
37	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
38	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
39	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
40	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
41	1.0	12.0	100.0	0.0	0.0	0.0	0.0	
42	1.0	12.0	100.0	0.0	0.0	0.0	0.0	

THE RESULTS FOR THIS SIMULATION FOLLOW

NO. OF TRIALS = 5 - ACCURACY ATTAINED = 4.018342E-03

PIPE	NO.	WACE	INCHES	LENGTH	DEMAND	VALVE	FACT	LOSS	LOSS
1	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
4	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
6	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
7	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
9	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
13	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
14	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
15	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
16	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
17	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
18	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
19	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
20	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
23	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
24	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
25	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
26	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
27	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
28	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
29	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
30	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
31	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
32	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
33	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
34	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
35	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
36	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
37	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
38	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
39	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
40	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
41	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
42	1.0	12.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0

AREA	ACRES	C _s	C ₁₀₀	T _c	I _s	I ₁₀₀	Q _s	Q ₁₀₀
A	10.05	0.78	0.88	16	4.43	7.18	34.72	63.50
B	11.82	0.78	0.88	16	4.43	7.18	40.84	74.68
C	3.64	0.78	0.88	16	4.43	7.18	12.58	23.00
B & C	15.46	0.73	0.88	18	4.20	6.84	50.64	93.06
D	5.55	0.78	0.88	15	4.56	7.37	12.74	35.99
E	7.37	0.78	0.88	16	4.43	7.18	25.46	46.56
D & E	12.92	0.78	0.88	17	4.31	7.00	43.43	79.59
F	2.65	0.78	0.88	15	4.56	7.37	9.42	17.18
G	7.05	0.78	0.88	15	4.56	7.37	27.64	50.39
F & G	9.70	0.78	0.88	15	4.56	7.37	37.06	67.58
H	0.50	0.88	0.93	15	4.56	7.37	2.01	3.43
D thru H	23.12	0.88	0.88	18	4.20	6.84	75.74	139.17
I	8.97	0.78	0.88	18	4.20	6.84	29.38	53.99
J	0.72	0.88	0.93	15	4.56	7.37	2.89	4.94
I & J	9.69	0.78	0.88	18	4.20	6.84	31.74	58.32
D thru J	32.81	0.78	0.88	22	3.81	6.26	97.51	180.74
K	8.83	0.78	0.88	18	4.20	6.84	29.12	53.15

MEDITERRANEAN PLAZA COMMERCIAL

AREA	ACRES	AREA ACCUM.	C _s	C ₁₀₀	T _c	I _s	I ₁₀₀	Q _s	Q ₁₀₀	PIPE SIZE	PIPE SLOPE
A	10.05		0.78	0.88	16	4.43	7.18	34.72	63.50		
B	11.82		0.78	0.88	16	4.43	7.18	40.84	74.68		
C	3.64		0.78	0.88	16	4.43	7.18	12.58	23.00		
B & C	15.46		0.78	0.88	18	4.20	6.84	50.64	93.06	48" RCP	0.40X
D	6.95		0.78	0.88	15	4.56	7.37	24.72	45.07		
E	7.37		0.78	0.88	16	4.43	7.18	25.46	46.56		
D & E	14.32		0.78	0.88	17	4.31	7.00	48.14	88.21		
F	2.65		0.78	0.88	15	4.56	7.37	9.42	17.18		
G	7.05		0.78	0.88	15	4.56	7.37	27.64	50.39		
F & G	9.70		0.78	0.88	15	4.56	7.37	37.06	67.58	30" RCP	0.84X
H	0.50		0.88	0.93	15	4.56	7.37	2.01	3.43		
D thru H	24.52		0.88	0.88	18	4.20	6.84	80.33	147.59	60" RCP	0.34X
I	8.97		0.78	0.88	18	4.20	6.84	62.80	115.39		
J	0.72		0.88	0.93	15	4.56	7.37	2.89	4.94		
I & J	19.89		0.78	0.88	18	4.20	6.84	65.16	119.72		
D thru J	44.41		0.78	0.88	22	3.81	6.26	138.56	255.20	4-38" x 24" HERCIP'S	

SUMMARY OF INFLOWS AND OUTFLOWS

JUNCTION	ELEVATION (FT.)	DEMAND (GPM)	PRESSURE (PSI)	HYDRAULIC GRADE
1	210.0	0.0	2.5	215.7
2	209.0	0.0	2.7	214.0
3	208.0	0.0	2.9	212.3
4	207.0	0.0	3.1	210.6
5	206.0	0.0	3.3	208.9
6	205.0	0.0	3.5	207.2
7	204.0	0.0	3.7	205.5
8	203.0	0.0	3.9	203.8
9	202.0	0.0	4.1	202.1
10	201.0	0.0	4.3	200.4
11	200.0	0.0	4.5	198.7
12	199.0	0.0	4.7	197.0
13	198.0	0.0	4.9	195.3
14	197.0	0.0	5.1	193.6
15	196.0	0.0	5.3	191.9
16	195.0	0.0	5.5	190.2
17	194.0	0.0	5.7	188.5
18	193.0	0.0	5.9	186.8
19	192.0	0.0	6.1	185.1
20	191.0	0.0	6.3	183.4
21	190.0	0.0	6.5	181.7
22	189.0	0.0	6.7	180.0
23	188.0	0.0	6.9	178.3
24	187.0	0.0	7.1	176.6
25	186.0	0.0	7.3	174.9
26	185.0	0.0	7.5	173.2
27	184.0	0.0	7.7	171.5
28	183.0	0.0	7.9	169.8
29	182.0	0.0	8.1	168.1
30	181.0	0.0	8.3	166.4
31	180.0	0.0	8.5	164.7
32	179.0	0.0	8.7	163.0
33	178.0	0.0	8.9	161.3
34	177.0	0.0	9.1	159.6
35	176.0	0.0	9.3	157.9
36	175.0	0.0	9.5	156.2
37	174.0	0.0	9.7	154.5
38	173.0	0.0	9.9	152.8
39	172.0	0.0	10.1	151.1
40	171.0	0.0	10.3	149.4