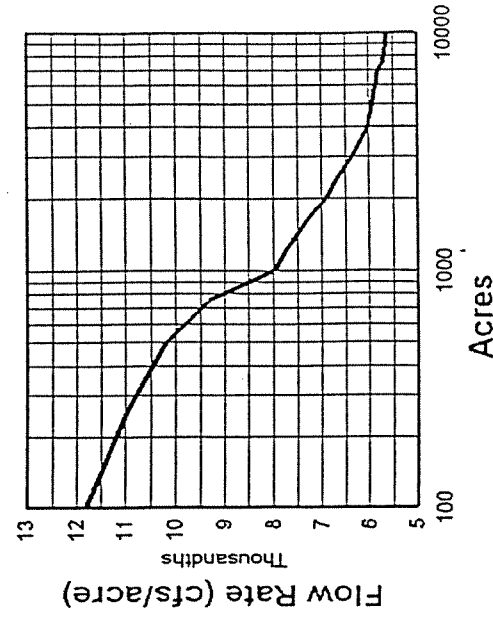


Future Flow Criteria

Percent Zone	Zone Type	Description	Density (Units/Acre)	Equivalent Capital/Unit	Equivalent Capital/Acre	Capita Usage (gpcd)	Average WWP (gpcd)	Infiltration (gpcd)	Inflow Coeff. "K"
35%	1	Low Density Residential	4	2.3	9	100	920	500	0.0035
0%	2	Medium Density Residential	4	3	12	100	1200	500	0.0050
9%	3	High Density Residential	10	2.3	23	100	2300	500	0.0050
6%	4	Office & Commercial	2	2.9	6	100	580	200	0.0030
47%	5	Light/Med Industry	1	10	10	100	1000	200	0.0030
0%	6	Heavy Industry	1	25	25	100	2500	200	0.0030
0%	7	Public	1	7	7	100	700	0	0.0005
3%	8	Agricultural/ Park	1	1	1	100	100	0	0.0005
100%		Average(weighted)	3	5.9	10.3	100	1030	324	0.0033

Design Curve for Growth Areas



Acres	Tc (min.)	Design Curve Data		Design Flow (cfs)	ADF (mgd)	Ratio Design Flow/ADF	Ratio Design Flow/WWP	Equivalent Population	ADF Unit Rate (gpcd)	
		10-Year 1 WWP Penking F (In/hr)	WWP							
1	60	2.60	2.00	0.01211	0.008	0.001	6.57	7.79	10	118.6
10	60	2.60	2.00	0.01211	0.078	0.012	6.57	7.79	101	118.6
25	60	2.60	1.95	0.01204	0.195	0.030	6.53	7.74	251	118.6
50	60	2.60	1.91	0.01197	0.598	0.080	6.49	7.69	503	118.6
75	60	2.60	1.86	0.01190	0.892	0.089	6.45	7.65	754	118.6
100	60	2.60	1.82	0.01182	1.182	0.119	6.41	7.60	1005	118.6
250	65	2.37	1.77	0.01100	2.750	0.296	6.02	7.07	2513	117.6
500	75	2.14	1.73	0.01019	5.094	0.592	5.66	6.55	5026	117.7
750	95	1.90	1.69	0.00934	7.005	0.902	5.02	6.01	7539	119.6
1000	125	1.50	1.65	0.00797	7.971	1.192	4.32	5.13	10052	118.6
1250	130	1.43	1.64	0.00772	9.651	1.483	4.21	4.96	12565	118.0
1500	145	1.35	1.62	0.00744	11.157	1.791	4.03	4.78	15078	118.0
1750	155	1.28	1.61	0.00719	12.579	2.087	3.89	4.62	17592	118.7
2000	165	1.20	1.60	0.00691	13.810	2.375	3.76	4.44	20105	118.1
2500	180	1.13	1.58	0.00666	16.638	2.972	3.62	4.28	25131	118.3
3000	192	1.05	1.57	0.00637	19.118	3.545	3.49	4.10	30157	117.5
4000	215	0.95	1.55	0.00606	24.229	4.721	3.32	3.89	40209	117.4
5000	220	0.93	1.54	0.00594	29.690	5.882	3.26	3.82	50262	117.0
7000	240	0.90	1.53	0.00582	40.732	8.297	3.17	3.74	70366	117.9
7500	250	0.87	1.51	0.00570	42.747	8.892	3.11	3.66	75392	117.8
10000	270	0.86	1.50	0.00565	56.458	11.990	3.04	3.63	100523	119.3

LAWRENCE, KANSAS
SOUTHEAST STUDY AREA - 1998
LAND USE DESIGN CURVE
SECTION 09, YEAR 2020

FIGURE 5