Appendix A

Runoff Calculations

TYPE IA 24-HOUR RAINFALL= 5.50 IN
Prepared by HBH Consulting Engineers, Inc. 1 Dec 05
HydroCAD 5.11 001354 (c) 1986-1999 Applied Microcomputer Systems

SUBCATCHMENT 1 Basin A

PEAK= 7.51 CFS @ 8.01 HRS, VOLUME= 1.24 AF

ACRES	CN		
2.36	98	Paved Streets	SCS TR-20 METHOD
7.99	70	0.20 Acre Res - Group A Soil	TYPE IA 24-HOUR
1.19	49	Vacant Lots (Open Space - Fair)	RAINFALL= 5.50 IN
11.54	74		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.0

SUBCATCHMENT 1 RUNOFF PEAK= 7.51 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.65	.66	.67	.69	.70	.72	.74	.76	.78	.79
6.20	.81	.83	.84	.86	.87	.89	.90	.92	.93	.94
6.40	.96	.97	.98	1.00	1.01	1.02	1.03	1.04	1.05	1.05
6.60	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.07	1.08	1.09
6.80	1.10	1.12	1.13	1.15	1.16	1.18	1.20	1.22	1.23	1.26
7.00	1.28	1.30	1.32	1.35	1.37	1.40	1.43	1.45	1.48	1.51
7.20	1.55	1.58	1.61	1.65	1.68	1.72	1.76	1.80	1.84	1.89
7.40	1.93	1.98	2.02	2.07	2.12	2.18	2.24	2.36	2.56	2.86
7.60	3.26	3.70	4.15	4.58	4.96	5.29	5.57	5.83	6.07	6.28
7.80	6.47	6.64	6.80	6.94	7.07	7.18	7.27	7.35	7.42	7.47
8.00	7.50	7.50	7.46	7.33	7.10	6.80	6.45	6.11	5.78	5.50
8.20	5.27	5.06	4.88	4.72	4.57	4.43	4.30	4.18	4.06	3.96
8.40	3.86	3.76	3.67	3.58	3.50	3.43	3.36	3.30	3.27	3.26
8.60	3.27	3.29	3.30	3.32	3.32	3.31	3.30	3.28	3.26	3.23
8.80	3.20	3.18	3.15	3.12	3.09	3.06	3.02	2.99	2.96	2.93
9.00	2.90	2.87	2.84	2.81	2.78	2.75	2.72	2.69	2.66	2.63
9.20	2.60	2.58	2.55	2.53	2.51	2.48	2.46	2.44	2.42	2.41
9.40	2.39	2.37	2.35	2.34	2.32	2.31	2.30	2.29	2.28	2.28
9.60	2.28	2.29	2.29	2.29	2.29	2.29	2.29	2.28	2.28	2.27
9.80	2.27	2.26	2.25	2.25	2.24	2.23	2.22	2.22	2.21	2.20
10.00	2.20	2.19	2.18	2.17	2.16	2.15	2.14	2.13	2.11	2.10
10.20	2.10	2.09	2.08	2.07	2.06	2.06	2.05	2.05	2.04	2.04
10.40	2.03	2.03	2.02	2.02	2.01	2.01	2.01	2.00	2.00	2.01
10.60	2.01	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.02
10.80	2.01	2.01	2.01	2.00	2.00	1.99	1.99	1.98	1.97	1.97
11.00	1.96	1.96	1.95	1.95	1.94	1.94	1.93	1.93	1.92	1.91
11.20	1.91	1.90	1.90	1.89	1.89	1.88	1.87	1.87	1.86	1.86
11.40	1.85	1.84	1.84	1.83	1.83	1.82	1.81	1.81	1.80	1.79
11.60	1.78	1.77	1.76	1.75	1.75	1.74	1.73	1.73	1.72	1.72
11.80	1.71	1.71	1.70	1.70	1.70	1.70	1.69	1.69	1.69	1.69
12.00	1.69									

SUBCATCHMENT 2 Basin B

PEAK= 31.86 CFS @ 8.01 HRS, VOLUME= 5.22 AF

ACRES	CN		
5.80	98	Paved Streets	SCS TR-20 METHOD
32.84	77	1/8 Acre Res - Group A Soil	TYPE IA 24-HOUR
38.64	80		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	11.8

SUBCATCHMENT 2 RUNOFF PEAK= 31.86 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.88	3.94	3.99	4.05	4.12	4.19	4.27	4.36	4.44	4.52
6.20	4.60	4.67	4.74	4.81	4.87	4.94	5.00	5.05	5.11	5.17
6.40	5.22	5.27	5.32	5.38	5.43	5.47	5.51	5.55	5.58	5.60
6.60	5.59	5.58	5.56	5.55	5.53	5.53	5.54	5.56	5.58	5.61
6.80	5.65	5.70	5.74	5.80	5.85	5.92	5.98	6.06	6.13	6.21
7.00	6.30	6.38	6.48	6.58	6.68	6.78	6.89	7.01	7.13	7.25
7.20	7.38	7.52	7.66	7.80	7.95	8.11	8.27	8.43	8.60	8.77
7.40	8.96	9.14	9.33	9.53	9.74	9.95	10.18	10.55	11.14	12.07
7.60	13.40	15.02	16.79	18.59	20.32	21.91	23.31	24.53	25.61	26.57
7.80	27.44	28.21	28.90	29.51	30.05	30.52	30.92	31.24	31.50	31.70
8.00	31.83	31.86	31.73	31.40	30.77	29.81	28.61	27.32	25.99	24.72
8.20	23.53	22.50	21.59	20.78	20.03	19.35	18.72	18.14	17.58	17.07
8.40	16.59	16.14	15.70	15.30	14.92	14.56	14.23	13.94	13.70	13.55
8.60	13.47	13.45	13.46	13.48	13.49	13.48	13.44	13.38	13.29	13.19
8.80	13.08	12.97	12.86	12.73	12.60	12.47	12.35	12.22	12.08	11.96
9.00	11.83	11.70	11.57	11.45	11.32	11.19	11.06	10.93	10.81	10.68
9.20	10.56	10.45	10.34	10.24	10.13	10.03	9.94	9.85	9.76	9.68
9.40	9.60	9.52	9.45	9.38	9.31	9.25	9.19	9.14	9.10	9.07
9.60	9.06	9.05	9.05	9.06	9.06	9.05	9.04	9.03	9.01	8.99
9.80	8.96	8.93	8.91	8.88	8.85	8.82	8.79	8.76	8.73	8.69
10.00	8.66	8.63	8.59	8.56	8.52	8.48	8.43	8.39	8.34	8.30
10.20	8.26	8.22	8.18	8.15	8.12	8.09	8.06	8.03	8.01	7.98
10.40	7.95	7.93	7.91	7.89	7.87	7.85	7.84	7.82	7.81	7.81
10.60	7.82	7.84	7.85	7.86	7.87	7.88	7.87	7.87	7.86	7.85
10.80	7.83	7.81	7.80	7.78	7.76	7.74	7.72	7.70	7.67	7.65
11.00	7.63	7.61	7.59	7.56	7.54	7.52	7.49	7.47	7.44	7.42
11.20	7.40	7.37	7.35	7.33	7.31	7.28	7.26	7.23	7.21	7.19
11.40	7.16	7.14	7.11	7.09	7.06	7.04	7.02	6.99	6.96	6.93
11.60	6.89	6.86	6.82	6.78	6.75	6.72	6.69	6.66	6.64	6.62
11.80	6.60	6.58	6.56	6.55	6.53	6.52	6.50	6.49	6.48	6.47
12.00	6.47									

SUBCATCHMENT 3 Basin C

PEAK= 16.83 CFS @ 7.99 HRS, VOLUME= 2.73 AF

ACRES	CN		
1.68	98	Paved Streets	
13.90	83	1/4 Acre Res & Industrial	
1.56	94	Commercial	
17.14	85		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.7

SUBCATCHMENT 3 RUNOFF PEAK= 16.83 CFS @ 7.99 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.54	2.57	2.60	2.63	2.67	2.71	2.76	2.81	2.85	2.90
6.20	2.94	2.97	3.01	3.04	3.08	3.11	3.14	3.16	3.19	3.22
6.40	3.24	3.27	3.29	3.31	3.34	3.36	3.38	3.39	3.40	3.39
6.60	3.38	3.36	3.34	3.32	3.31	3.30	3.31	3.31	3.33	3.34
6.80	3.36	3.39	3.41	3.44	3.47	3.51	3.54	3.58	3.62	3.66
7.00	3.71	3.76	3.81	3.86	3.92	3.97	4.03	4.10	4.16	4.23
7.20	4.30	4.37	4.44	4.52	4.60	4.69	4.77	4.86	4.95	5.04
7.40	5.14	5.24	5.34	5.45	5.56	5.67	5.82	6.05	6.46	7.10
7.60	7.96	8.95	9.99	10.99	11.90	12.68	13.35	13.92	14.42	14.86
7.80	15.25	15.58	15.87	16.12	16.33	16.50	16.64	16.74	16.80	16.83
8.00	16.82	16.76	16.61	16.31	15.83	15.18	14.45	13.68	12.95	12.27
8.20	11.68	11.17	10.72	10.32	9.95	9.62	9.30	9.01	8.74	8.49
8.40	8.25	8.02	7.81	7.61	7.42	7.24	7.08	6.95	6.85	6.79
8.60	6.77	6.78	6.80	6.82	6.82	6.81	6.77	6.73	6.68	6.62
8.80	6.56	6.50	6.43	6.36	6.29	6.22	6.16	6.09	6.02	5.95
9.00	5.88	5.82	5.75	5.69	5.62	5.55	5.48	5.42	5.35	5.29
9.20	5.23	5.17	5.12	5.06	5.01	4.96	4.92	4.87	4.83	4.79
9.40	4.75	4.71	4.67	4.64	4.60	4.57	4.54	4.52	4.50	4.49
9.60	4.49	4.49	4.49	4.49	4.49	4.49	4.48	4.47	4.46	4.44
9.80	4.43	4.41	4.40	4.38	4.37	4.35	4.33	4.32	4.30	4.28
10.00	4.26	4.25	4.23	4.21	4.19	4.16	4.14	4.12	4.09	4.07
10.20	4.05	4.03	4.01	4.00	3.98	3.97	3.95	3.94	3.93	3.91
10.40	3.90	3.89	3.88	3.87	3.86	3.85	3.84	3.83	3.83	3.83
10.60	3.84	3.85	3.85	3.86	3.86	3.86	3.86	3.85	3.85	3.84
10.80	3.83	3.82	3.81	3.80	3.79	3.78	3.77	3.76	3.74	3.73
11.00	3.72	3.71	3.70	3.68	3.67	3.66	3.65	3.64	3.62	3.61
11.20	3.60	3.59	3.58	3.56	3.55	3.54	3.53	3.52	3.50	3.49
11.40	3.48	3.47	3.45	3.44	3.43	3.42	3.40	3.39	3.38	3.36
11.60	3.34	3.32	3.30	3.28	3.27	3.25	3.24	3.23	3.22	3.21
11.80	3.20	3.19	3.18	3.17	3.16	3.16	3.15	3.15	3.14	3.14
12.00	3.13									

SUBCATCHMENT 4 Basin D

PEAK= 35.16 CFS @ 8.03 HRS, VOLUME= 5.79 AF

ACRES	CN		
7.50	98	Paved Streets	SCS TR-20 METHOD
33.89	77	1/8 Acre Res - Group A Soil	TYPE IA 24-HOUR
41.39	81		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.1

SUBCATCHMENT 4 RUNOFF PEAK= 35.16 CFS @ 8.03 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	4.47	4.52	4.58	4.65	4.71	4.79	4.88	4.96	5.05	5.14
6.20	5.23	5.31	5.39	5.47	5.54	5.62	5.69	5.75	5.82	5.88
6.40	5.94	6.00	6.06	6.12	6.17	6.22	6.27	6.31	6.35	6.38
6.60	6.38	6.38	6.37	6.35	6.34	6.33	6.33	6.33	6.36	6.38
6.80	6.41	6.46	6.50	6.55	6.62	6.68	6.75	6.82	6.90	6.98
7.00	7.07	7.17	7.26	7.36	7.48	7.59	7.70	7.83	7.96	8.09
7.20	8.23	8.37	8.52	8.68	8.84	9.00	9.17	9.35	9.53	9.72
7.40	9.92	10.12	10.32	10.54	10.76	10.98	11.26	11.62	12.17	13.00
7.60	14.16	15.64	17.35	19.18	21.01	22.79	24.46	25.95	27.27	28.45
7.80	29.50	30.43	31.29	32.05	32.71	33.30	33.82	34.23	34.59	34.87
8.00	35.05	35.16	35.13	34.88	34.38	33.61	32.55	31.29	29.98	28.62
8.20	27.31	26.09	24.98	23.98	23.09	22.28	21.52	20.81	20.16	19.54
8.40	18.96	18.43	17.91	17.42	16.97	16.55	16.14	15.79	15.48	15.24
8.60	15.08	14.99	14.94	14.92	14.92	14.90	14.86	14.81	14.73	14.63
8.80	14.52	14.40	14.27	14.14	14.01	13.86	13.72	13.58	13.44	13.30
9.00	13.16	13.01	12.87	12.74	12.59	12.45	12.31	12.16	12.02	11.89
9.20	11.75	11.62	11.49	11.38	11.25	11.14	11.04	10.93	10.83	10.74
9.40	10.64	10.55	10.47	10.39	10.31	10.24	10.17	10.10	10.05	10.01
9.60	9.98	9.96	9.96	9.95	9.95	9.95	9.93	9.92	9.90	9.88
9.80	9.85	9.83	9.80	9.77	9.74	9.71	9.67	9.64	9.60	9.57
10.00	9.53	9.50	9.46	9.42	9.38	9.33	9.29	9.24	9.19	9.14
10.20	9.10	9.06	9.01	8.97	8.94	8.90	8.86	8.83	8.80	8.77
10.40	8.75	8.72	8.69	8.67	8.65	8.62	8.60	8.59	8.57	8.57
10.60	8.57	8.57	8.59	8.60	8.61	8.61	8.62	8.62	8.61	8.60
10.80	8.58	8.56	8.55	8.53	8.51	8.49	8.47	8.44	8.42	8.40
11.00	8.37	8.34	8.32	8.30	8.27	8.25	8.22	8.19	8.17	8.14
11.20	8.12	8.09	8.07	8.04	8.01	7.99	7.96	7.93	7.91	7.88
11.40	7.85	7.83	7.80	7.77	7.75	7.72	7.69	7.67	7.64	7.60
11.60	7.57	7.53	7.49	7.45	7.42	7.38	7.34	7.32	7.29	7.26
11.80	7.24	7.21	7.19	7.17	7.16	7.14	7.12	7.11	7.10	7.08
12.00	7.08									

SUBCATCHMENT 5 Basin E

PEAK= 25.56 CFS @ 8.00 HRS, VOLUME= 4.18 AF

ACRES	CN		
3.36	98	Paved Streets	SCS TR-20 METHOD
28.65	77	1/8 Acre Res - Group A Soil	TYPE IA 24-HOUR
32.01	79		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.4

SUBCATCHMENT 5 RUNOFF PEAK= 25.56 CFS @ 8.00 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.99	3.04	3.08	3.14	3.19	3.26	3.32	3.39	3.46	3.52
6.20	3.58	3.64	3.69	3.74	3.79	3.84	3.89	3.93	3.98	4.02
6.40	4.07	4.11	4.15	4.19	4.22	4.26	4.30	4.32	4.34	4.34
6.60	4.33	4.31	4.30	4.29	4.28	4.29	4.30	4.32	4.35	4.38
6.80	4.42	4.46	4.50	4.55	4.60	4.65	4.71	4.77	4.84	4.91
7.00	4.98	5.05	5.13	5.21	5.30	5.39	5.48	5.57	5.67	5.78
7.20	5.88	6.00	6.11	6.23	6.35	6.48	6.61	6.75	6.89	7.03
7.40	7.18	7.34	7.50	7.66	7.83	8.00	8.23	8.60	9.24	10.23
7.60	11.55	13.06	14.61	16.10	17.44	18.61	19.61	20.48	21.26	21.96
7.80	22.58	23.13	23.62	24.06	24.43	24.75	25.02	25.23	25.40	25.50
8.00	25.56	25.53	25.33	24.90	24.16	23.16	22.02	20.85	19.75	18.74
8.20	17.89	17.15	16.50	15.91	15.37	14.88	14.42	13.99	13.59	13.21
8.40	12.86	12.52	12.20	11.91	11.62	11.36	11.12	10.92	10.78	10.71
8.60	10.72	10.75	10.80	10.83	10.84	10.82	10.77	10.71	10.63	10.54
8.80	10.45	10.35	10.25	10.15	10.05	9.94	9.84	9.73	9.63	9.52
9.00	9.42	9.32	9.22	9.12	9.01	8.91	8.80	8.70	8.60	8.51
9.20	8.42	8.33	8.24	8.16	8.08	8.01	7.94	7.87	7.80	7.74
9.40	7.67	7.62	7.56	7.51	7.46	7.41	7.37	7.33	7.30	7.29
9.60	7.29	7.30	7.31	7.32	7.31	7.31	7.30	7.28	7.26	7.24
9.80	7.22	7.20	7.18	7.15	7.13	7.10	7.08	7.05	7.03	7.00
10.00	6.98	6.95	6.92	6.89	6.86	6.82	6.78	6.75	6.71	6.68
10.20	6.65	6.62	6.59	6.56	6.54	6.52	6.49	6.47	6.45	6.44
10.40	6.42	6.40	6.38	6.37	6.35	6.34	6.33	6.32	6.32	6.32
10.60	6.34	6.35	6.37	6.38	6.38	6.38	6.38	6.37	6.36	6.35
10.80	6.33	6.32	6.30	6.29	6.27	6.25	6.24	6.22	6.20	6.18
11.00	6.16	6.15	6.13	6.11	6.09	6.07	6.05	6.03	6.02	6.00
11.20	5.98	5.96	5.94	5.92	5.90	5.88	5.86	5.84	5.82	5.81
11.40	5.79	5.77	5.75	5.73	5.71	5.69	5.67	5.65	5.62	5.60
11.60	5.56	5.53	5.50	5.47	5.45	5.43	5.41	5.39	5.37	5.35
11.80	5.34	5.32	5.31	5.30	5.29	5.28	5.27	5.26	5.25	5.25
12.00	5.24									

SUBCATCHMENT 6 Basin F

PEAK= 15.81 CFS @ 7.92 HRS, VOLUME= 2.52 AF

ACRES	CN		
3.02	98	Paved Streets	SCS TR-20 METHOD
4.93	80	1/2 Acre Res - Group C Soil	TYPE IA 24-HOUR
5.91	94	Commercial - Group C Soil	RAINFALL= 5.50 IN
13.86	90		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	7.9

SUBCATCHMENT 6 RUNOFF PEAK= 15.81 CFS @ 7.92 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.85	2.88	2.91	2.96	3.01	3.06	3.11	3.15	3.19	3.23
6.20	3.26	3.29	3.32	3.34	3.37	3.39	3.41	3.43	3.46	3.47
6.40	3.49	3.51	3.53	3.54	3.56	3.57	3.58	3.58	3.56	3.52
6.60	3.48	3.45	3.42	3.41	3.41	3.41	3.42	3.44	3.45	3.47
6.80	3.50	3.52	3.55	3.58	3.61	3.65	3.69	3.73	3.77	3.81
7.00	3.86	3.91	3.96	4.01	4.07	4.12	4.18	4.25	4.31	4.38
7.20	4.45	4.52	4.60	4.67	4.75	4.83	4.92	5.00	5.09	5.18
7.40	5.28	5.37	5.47	5.57	5.68	5.79	5.97	6.39	7.19	8.33
7.60	9.59	10.77	11.77	12.55	13.17	13.68	14.11	14.47	14.77	15.03
7.80	15.24	15.42	15.56	15.67	15.75	15.80	15.81	15.80	15.75	15.67
8.00	15.56	15.37	15.01	14.39	13.55	12.63	11.77	11.04	10.45	9.97
8.20	9.56	9.20	8.87	8.57	8.30	8.05	7.81	7.58	7.37	7.17
8.40	6.98	6.80	6.63	6.47	6.32	6.18	6.06	5.99	5.97	6.01
8.60	6.07	6.12	6.14	6.13	6.10	6.06	6.01	5.95	5.89	5.82
8.80	5.76	5.69	5.62	5.56	5.49	5.43	5.36	5.30	5.24	5.18
9.00	5.12	5.05	4.99	4.93	4.87	4.81	4.75	4.69	4.63	4.58
9.20	4.53	4.48	4.44	4.39	4.35	4.31	4.27	4.23	4.19	4.16
9.40	4.13	4.09	4.06	4.04	4.01	3.98	3.96	3.95	3.94	3.95
9.60	3.96	3.97	3.97	3.96	3.96	3.95	3.93	3.92	3.91	3.89
9.80	3.88	3.86	3.85	3.83	3.81	3.80	3.78	3.77	3.75	3.73
10.00	3.72	3.70	3.68	3.66	3.64	3.61	3.59	3.57	3.55	3.53
10.20	3.52	3.50	3.49	3.47	3.46	3.45	3.44	3.42	3.41	3.40
10.40	3.39	3.38	3.37	3.37	3.36	3.35	3.34	3.34	3.35	3.36
10.60	3.37	3.38	3.38	3.38	3.38	3.37	3.36	3.36	3.35	3.34
10.80	3.33	3.32	3.31	3.30	3.28	3.27	3.26	3.25	3.24	3.23
11.00	3.22	3.21	3.20	3.19	3.18	3.17	3.15	3.14	3.13	3.12
11.20	3.11	3.10	3.09	3.08	3.07	3.05	3.04	3.03	3.02	3.01
11.40	3.00	2.99	2.98	2.97	2.95	2.94	2.93	2.92	2.90	2.88
11.60	2.86	2.85	2.83	2.82	2.81	2.79	2.78	2.78	2.77	2.76
11.80	2.75	2.74	2.74	2.73	2.73	2.72	2.72	2.71	2.71	2.71
12.00	2.71									

SUBCATCHMENT 7 Basin G - Subbasin 1

PEAK= 61.13 CFS @ 7.97 HRS, VOLUME= 9.86 AF

ACRES	CN		
8.51	98	Paved Streets	
23.00	85	1/8 Acre Res - Group B Soil	
2.74	77	Brush/Forest - Group C Soil	
21.23	90	1/8 Acre Res - Group C Soil	
55.48	89		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.9

SUBCATCHMENT 7 RUNOFF PEAK= 61.13 CFS @ 7.97 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	10.56	10.66	10.77	10.90	11.04	11.20	11.37	11.55	11.72	11.88
6.20	12.03	12.17	12.29	12.41	12.53	12.64	12.74	12.84	12.93	13.02
6.40	13.10	13.19	13.26	13.33	13.40	13.47	13.53	13.57	13.58	13.54
6.60	13.48	13.39	13.30	13.21	13.15	13.11	13.10	13.12	13.15	13.19
6.80	13.25	13.33	13.41	13.51	13.61	13.73	13.85	13.98	14.13	14.28
7.00	14.44	14.61	14.79	14.98	15.17	15.38	15.60	15.82	16.05	16.29
7.20	16.54	16.81	17.07	17.35	17.64	17.94	18.24	18.56	18.89	19.22
7.40	19.56	19.92	20.29	20.67	21.05	21.45	21.97	22.82	24.26	26.51
7.60	29.59	33.19	36.96	40.63	43.98	46.89	49.32	51.39	53.19	54.75
7.80	56.09	57.24	58.22	59.05	59.73	60.28	60.68	60.95	61.10	61.12
8.00	61.03	60.74	60.12	59.01	57.27	54.97	52.32	49.54	46.84	44.35
8.20	42.17	40.28	38.62	37.12	35.76	34.50	33.35	32.28	31.29	30.35
8.40	29.46	28.63	27.85	27.12	26.43	25.78	25.18	24.67	24.28	24.06
8.60	23.98	24.00	24.04	24.08	24.09	24.03	23.91	23.75	23.56	23.35
8.80	23.13	22.90	22.66	22.41	22.16	21.91	21.67	21.42	21.17	20.92
9.00	20.68	20.44	20.21	19.97	19.73	19.48	19.24	19.00	18.77	18.55
9.20	18.33	18.12	17.92	17.73	17.55	17.38	17.20	17.04	16.88	16.73
9.40	16.59	16.45	16.32	16.19	16.07	15.96	15.86	15.76	15.69	15.65
9.60	15.64	15.64	15.64	15.64	15.63	15.61	15.58	15.55	15.50	15.45
9.80	15.40	15.35	15.29	15.23	15.17	15.11	15.05	14.99	14.93	14.87
10.00	14.81	14.74	14.68	14.61	14.53	14.45	14.36	14.28	14.20	14.12
10.20	14.05	13.98	13.91	13.85	13.79	13.74	13.69	13.64	13.59	13.54
10.40	13.50	13.45	13.41	13.37	13.34	13.30	13.27	13.25	13.24	13.24
10.60	13.25	13.28	13.30	13.32	13.33	13.33	13.32	13.30	13.27	13.25
10.80	13.21	13.18	13.14	13.10	13.07	13.03	12.98	12.94	12.90	12.86
11.00	12.82	12.78	12.73	12.69	12.65	12.61	12.56	12.52	12.47	12.43
11.20	12.39	12.35	12.30	12.26	12.22	12.17	12.13	12.09	12.04	12.00
11.40	11.96	11.91	11.87	11.83	11.78	11.74	11.69	11.65	11.59	11.54
11.60	11.47	11.40	11.34	11.28	11.22	11.17	11.12	11.07	11.03	11.00
11.80	10.96	10.93	10.90	10.87	10.85	10.82	10.80	10.78	10.76	10.75
12.00	10.73									

SUBCATCHMENT 8 Basin G - Subbasin 2

PEAK= 12.64 CFS @ 7.95 HRS, VOLUME= 2.03 AF

ACRES	CN		
1.84	98	Paved Streets	SCS TR-20 METHOD
9.03	90	1/8 Acre Res - Group C Soil	TYPE IA 24-HOUR
10.87	91		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	9.7

SUBCATCHMENT 8 RUNOFF PEAK= 12.64 CFS @ 7.95 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.33	2.36	2.38	2.41	2.44	2.48	2.52	2.55	2.59	2.62
6.20	2.65	2.68	2.70	2.72	2.74	2.76	2.78	2.80	2.82	2.84
6.40	2.85	2.87	2.88	2.89	2.91	2.92	2.93	2.93	2.93	2.91
6.60	2.89	2.86	2.84	2.82	2.81	2.80	2.80	2.81	2.82	2.83
6.80	2.84	2.86	2.88	2.90	2.92	2.95	2.97	3.00	3.03	3.07
7.00	3.10	3.14	3.18	3.22	3.26	3.30	3.35	3.39	3.44	3.50
7.20	3.55	3.60	3.66	3.72	3.78	3.84	3.91	3.97	4.04	4.11
7.40	4.19	4.26	4.34	4.42	4.50	4.58	4.69	4.90	5.28	5.91
7.60	6.70	7.57	8.41	9.17	9.81	10.33	10.76	11.13	11.44	11.71
7.80	11.93	12.12	12.28	12.41	12.51	12.58	12.62	12.64	12.64	12.61
8.00	12.55	12.46	12.27	11.96	11.48	10.90	10.27	9.65	9.09	8.62
8.20	8.21	7.86	7.55	7.27	7.02	6.78	6.56	6.36	6.17	5.99
8.40	5.82	5.66	5.51	5.37	5.24	5.11	5.00	4.91	4.86	4.84
8.60	4.85	4.87	4.88	4.89	4.89	4.86	4.83	4.79	4.75	4.70
8.80	4.66	4.60	4.55	4.50	4.45	4.40	4.35	4.30	4.25	4.20
9.00	4.15	4.10	4.05	4.00	3.95	3.90	3.85	3.80	3.75	3.71
9.20	3.67	3.63	3.59	3.55	3.51	3.48	3.45	3.41	3.38	3.35
9.40	3.33	3.30	3.27	3.25	3.22	3.20	3.18	3.17	3.16	3.15
9.60	3.15	3.15	3.16	3.16	3.15	3.15	3.14	3.13	3.12	3.11
9.80	3.10	3.09	3.07	3.06	3.05	3.04	3.03	3.01	3.00	2.99
10.00	2.97	2.96	2.95	2.93	2.91	2.90	2.88	2.86	2.85	2.83
10.20	2.82	2.80	2.79	2.78	2.77	2.76	2.75	2.74	2.73	2.72
10.40	2.71	2.70	2.69	2.68	2.68	2.67	2.66	2.66	2.66	2.66
10.60	2.67	2.67	2.68	2.68	2.68	2.68	2.68	2.67	2.67	2.66
10.80	2.65	2.64	2.64	2.63	2.62	2.61	2.60	2.59	2.59	2.58
11.00	2.57	2.56	2.55	2.54	2.53	2.52	2.52	2.51	2.50	2.49
11.20	2.48	2.47	2.46	2.45	2.45	2.44	2.43	2.42	2.41	2.40
11.40	2.39	2.38	2.37	2.37	2.36	2.35	2.34	2.33	2.32	2.30
11.60	2.29	2.28	2.26	2.25	2.24	2.23	2.22	2.21	2.21	2.20
11.80	2.19	2.19	2.18	2.17	2.17	2.17	2.16	2.16	2.15	2.15
12.00	2.15									

SUBCATCHMENT 9 Basin G - Subbasin 3

PEAK= 17.20 CFS @ 7.95 HRS, VOLUME= 2.79 AF

ACRES	CN		
3.33	98	Paved Streets	
11.58	80	1/5 Acre Res - Group B Soil	
1.54	76	Undeveloped - Group C Soil	
4.89	65	Undeveloped - Group B Soil	
21.34	79		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.6

SUBCATCHMENT 9 RUNOFF PEAK= 17.20 CFS @ 7.95 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.08	2.11	2.15	2.20	2.25	2.30	2.35	2.39	2.43	2.46
6.20	2.50	2.53	2.56	2.59	2.63	2.65	2.68	2.71	2.74	2.77
6.40	2.79	2.82	2.84	2.87	2.89	2.91	2.93	2.93	2.91	2.88
6.60	2.85	2.84	2.84	2.85	2.86	2.88	2.90	2.93	2.95	2.99
6.80	3.02	3.05	3.09	3.13	3.17	3.21	3.26	3.30	3.35	3.41
7.00	3.46	3.52	3.58	3.64	3.70	3.77	3.84	3.91	3.98	4.06
7.20	4.14	4.22	4.30	4.39	4.48	4.57	4.67	4.77	4.87	4.98
7.40	5.08	5.20	5.31	5.43	5.55	5.68	5.94	6.60	7.79	9.25
7.60	10.65	11.80	12.67	13.38	13.97	14.47	14.91	15.29	15.64	15.95
7.80	16.22	16.47	16.67	16.84	16.99	17.09	17.16	17.20	17.20	17.16
8.00	17.08	16.87	16.34	15.41	14.29	13.23	12.37	11.72	11.21	10.78
8.20	10.40	10.07	9.77	9.48	9.22	8.97	8.73	8.50	8.29	8.08
8.40	7.89	7.70	7.53	7.37	7.21	7.07	6.96	6.93	7.00	7.11
8.60	7.21	7.26	7.27	7.24	7.19	7.14	7.07	7.00	6.93	6.86
8.80	6.78	6.71	6.64	6.57	6.50	6.42	6.35	6.28	6.22	6.15
9.00	6.08	6.02	5.95	5.87	5.80	5.73	5.66	5.60	5.54	5.49
9.20	5.43	5.38	5.33	5.29	5.24	5.19	5.15	5.11	5.07	5.03
9.40	5.00	4.97	4.93	4.90	4.88	4.85	4.83	4.83	4.84	4.86
9.60	4.88	4.88	4.88	4.88	4.86	4.85	4.84	4.82	4.81	4.79
9.80	4.77	4.76	4.74	4.72	4.70	4.69	4.67	4.65	4.64	4.62
10.00	4.60	4.58	4.56	4.53	4.50	4.47	4.45	4.43	4.41	4.39
10.20	4.37	4.36	4.34	4.33	4.31	4.30	4.29	4.28	4.26	4.25
10.40	4.24	4.23	4.22	4.22	4.21	4.20	4.20	4.20	4.22	4.24
10.60	4.26	4.27	4.27	4.26	4.26	4.25	4.24	4.23	4.22	4.21
10.80	4.20	4.18	4.17	4.16	4.15	4.14	4.12	4.11	4.10	4.09
11.00	4.07	4.06	4.05	4.04	4.02	4.01	4.00	3.99	3.97	3.96
11.20	3.95	3.94	3.92	3.91	3.90	3.88	3.87	3.86	3.85	3.83
11.40	3.82	3.81	3.79	3.78	3.77	3.76	3.74	3.72	3.70	3.67
11.60	3.65	3.63	3.61	3.60	3.59	3.57	3.56	3.55	3.54	3.54
11.80	3.53	3.52	3.52	3.51	3.50	3.50	3.50	3.49	3.49	3.49
12.00	3.49									

SUBCATCHMENT 10 Basin G - Subbasin 4

PEAK= 25.52 CFS @ 8.01 HRS, VOLUME= 4.18 AF

ACRES	CN		
4.35	98	Paved Streets	
9.70	76	Undeveloped - Group C Soil	
4.17	65	Undeveloped - Group B Soil	
1.18	98	Impervious - Alzheimer Care Ctr	
9.40	80	1/5 Acre Res - Group B Soil	
2.15	87	1/5 Acre Res - Group C Soil	
30.95	80		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	11.7

SUBCATCHMENT 10 RUNOFF PEAK= 25.52 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.11	3.16	3.20	3.25	3.30	3.36	3.43	3.49	3.56	3.62
6.20	3.69	3.75	3.80	3.85	3.91	3.96	4.01	4.05	4.10	4.14
6.40	4.19	4.23	4.27	4.31	4.35	4.39	4.42	4.45	4.47	4.49
6.60	4.48	4.47	4.46	4.44	4.43	4.43	4.44	4.45	4.47	4.50
6.80	4.53	4.56	4.60	4.65	4.69	4.74	4.80	4.86	4.92	4.98
7.00	5.05	5.12	5.19	5.27	5.35	5.44	5.53	5.62	5.72	5.82
7.20	5.92	6.03	6.14	6.26	6.38	6.50	6.63	6.76	6.90	7.04
7.40	7.18	7.33	7.49	7.65	7.81	7.98	8.19	8.50	9.00	9.77
7.60	10.83	12.12	13.54	14.96	16.35	17.61	18.73	19.70	20.57	21.34
7.80	22.03	22.64	23.19	23.68	24.11	24.48	24.79	25.05	25.26	25.41
8.00	25.49	25.51	25.41	25.12	24.59	23.82	22.87	21.83	20.76	19.73
8.20	18.80	17.97	17.24	16.59	16.00	15.46	14.96	14.48	14.05	13.64
8.40	13.26	12.89	12.55	12.23	11.92	11.64	11.37	11.14	10.96	10.83
8.60	10.77	10.76	10.78	10.80	10.80	10.79	10.76	10.71	10.64	10.56
8.80	10.48	10.39	10.29	10.19	10.09	9.99	9.88	9.78	9.67	9.57
9.00	9.47	9.37	9.26	9.16	9.06	8.96	8.85	8.75	8.65	8.55
9.20	8.45	8.36	8.27	8.19	8.11	8.03	7.96	7.88	7.82	7.75
9.40	7.68	7.62	7.57	7.51	7.45	7.40	7.36	7.32	7.28	7.26
9.60	7.25	7.25	7.25	7.25	7.25	7.25	7.24	7.23	7.21	7.20
9.80	7.18	7.15	7.13	7.11	7.09	7.06	7.04	7.01	6.99	6.96
10.00	6.93	6.91	6.88	6.85	6.82	6.79	6.75	6.72	6.68	6.64
10.20	6.61	6.58	6.55	6.52	6.50	6.48	6.45	6.43	6.41	6.39
10.40	6.37	6.35	6.33	6.32	6.30	6.29	6.27	6.26	6.26	6.26
10.60	6.26	6.27	6.29	6.30	6.31	6.31	6.31	6.30	6.30	6.28
10.80	6.27	6.26	6.25	6.23	6.21	6.20	6.18	6.16	6.14	6.13
11.00	6.11	6.09	6.07	6.05	6.04	6.02	6.00	5.98	5.96	5.94
11.20	5.92	5.90	5.89	5.87	5.85	5.83	5.81	5.79	5.77	5.75
11.40	5.73	5.72	5.70	5.68	5.66	5.64	5.62	5.60	5.57	5.55
11.60	5.52	5.49	5.46	5.43	5.41	5.38	5.36	5.34	5.32	5.30
11.80	5.28	5.27	5.26	5.24	5.23	5.22	5.21	5.20	5.19	5.18
12.00	5.18									

TYPE IA 24-HOUR RAINFALL= 5.50 IN
Prepared by HBH Consulting Engineers, Inc. 6 Jan 06
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SUBCATCHMENT 1 Basin H

PEAK= 173.1 CFS @ 8.67 HRS, VOLUME= 40.09 AF

ACRES	CN	
218.29	76	Forest - Group C Soil
99.34	65	Forest - Group B Soil
8.10	85	1/8 Acre Res - Group B Soil
15.84	87	1/5 Acre Res - Group C Soil
32.72	80	1/5 Acre Res - Group B Soil
5.04	91	Newly Graded - Group C Soil
6.44	98	Paved Streets
385.77	75	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
SHALLOW CONCENTRATED/UPLAND FLOW	1	6.8
Woodland Kv=5 L=450' s=.0488 '/' V=1.1 fps		
SHALLOW CONCENTRATED/UPLAND FLOW	2	13.6
Woodland Kv=5 L=1323' s=.1058 '/' V=1.63 fps		
SHALLOW CONCENTRATED/UPLAND FLOW	3	25.4
Woodland Kv=5 L=1132' s=.0221 '/' V=.74 fps		
CHANNEL FLOW	4	7.8
a=6 sq-ft Pw=6.5' r=.923'		
s=.0224 '/' n=.04 V=5.27 fps L=2456' Capacity=31.6 cfs		
CHANNEL FLOW	5	2.0
a=7 sq-ft Pw=6.5' r=1.077'		
s=.122 '/' n=.04 V=13.63 fps L=1641' Capacity=95.4 cfs		
CHANNEL FLOW	6	6.3
a=10 sq-ft Pw=8.5' r=1.176'		
s=.0068 '/' n=.07 V=1.95 fps L=735' Capacity=19.5 cfs		
	Total Length= 7737 ft Total Tc=	61.9

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SUBCATCHMENT 1 RUNOFF PEAK= 173.1 CFS @ 8.67 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	11.7	12.0	12.3	12.5	12.8	13.1	13.4	13.7	14.0	14.3
6.20	14.6	14.9	15.3	15.6	15.9	16.2	16.5	16.9	17.2	17.6
6.40	17.9	18.3	18.6	19.0	19.4	19.8	20.2	20.6	20.9	21.3
6.60	21.7	22.1	22.6	23.0	23.4	23.8	24.2	24.6	25.1	25.5
6.80	25.9	26.3	26.7	27.1	27.5	28.0	28.4	28.8	29.2	29.5
7.00	29.9	30.3	30.7	31.1	31.5	31.9	32.2	32.6	33.0	33.4
7.20	33.8	34.2	34.6	35.0	35.4	35.8	36.3	36.7	37.2	37.7
7.40	38.1	38.6	39.1	39.7	40.2	40.8	41.4	41.9	42.6	43.3
7.60	44.1	44.8	45.7	46.5	47.4	48.4	49.6	50.8	52.1	53.6
7.80	55.1	56.6	58.4	60.5	62.5	64.7	67.2	69.8	72.3	75.3
8.00	78.4	81.6	84.9	88.5	92.2	95.9	99.8	103.7	107.7	111.7
8.20	115.7	119.8	123.8	127.8	131.7	135.6	139.4	142.9	146.3	149.7
8.40	152.8	155.7	158.7	161.2	163.2	165.2	167.1	168.6	170.0	171.4
8.60	172.1	172.5	172.9	173.1	173.1	173.0	172.9	172.2	171.2	170.3
8.80	169.3	168.2	167.0	165.9	164.4	162.8	161.2	159.6	158.1	156.5
9.00	154.9	153.2	151.5	149.7	148.1	146.5	145.0	143.4	141.9	140.3
9.20	138.8	137.3	136.0	134.6	133.2	131.8	130.5	129.1	127.9	126.7
9.40	125.4	124.2	123.0	121.7	120.5	119.4	118.3	117.2	116.0	114.9
9.60	113.7	112.6	111.6	110.6	109.6	108.5	107.5	106.4	105.4	104.5
9.80	103.6	102.7	101.7	100.8	99.9	99.0	98.2	97.5	96.7	95.9
10.00	95.2	94.4	93.7	93.0	92.4	91.8	91.2	90.5	89.9	89.3
10.20	88.8	88.3	87.8	87.3	86.7	86.2	85.8	85.3	84.9	84.5
10.40	84.0	83.6	83.1	82.7	82.4	82.0	81.6	81.2	80.8	80.4
10.60	80.0	79.7	79.4	79.1	78.7	78.3	77.9	77.6	77.4	77.1
10.80	76.8	76.4	76.1	75.8	75.6	75.3	75.1	74.8	74.5	74.3
11.00	74.0	73.8	73.6	73.4	73.2	73.0	72.7	72.5	72.4	72.2
11.20	72.1	71.9	71.7	71.4	71.3	71.1	71.0	70.9	70.7	70.5
11.40	70.3	70.1	70.0	69.9	69.7	69.5	69.3	69.2	69.0	68.9
11.60	68.7	68.6	68.4	68.2	68.0	67.8	67.7	67.5	67.4	67.1
11.80	66.9	66.7	66.6	66.4	66.2	66.1	65.8	65.6	65.4	65.2
12.00	65.1									

SUBCATCHMENT 2 Basin I

PEAK= 97.38 CFS @ 7.93 HRS, VOLUME= 15.74 AF

ACRES	CN		
36.42	76	Forest - Group C Soil	SCS TR-20 METHOD
75.71	84	SWOCC (~40% Imp.) - Group C Soil	TYPE IA 24-HOUR
112.13	81		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.1

SUBCATCHMENT 2 RUNOFF PEAK= 97.38 CFS @ 7.93 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	12.93	13.12	13.36	13.66	13.98	14.28	14.54	14.77	14.98	15.17
6.20	15.36	15.54	15.72	15.89	16.06	16.21	16.37	16.52	16.67	16.81
6.40	16.96	17.09	17.23	17.35	17.47	17.59	17.66	17.62	17.43	17.22
6.60	17.05	16.98	16.98	17.04	17.12	17.23	17.35	17.50	17.66	17.84
6.80	18.02	18.22	18.43	18.65	18.89	19.13	19.39	19.66	19.95	20.25
7.00	20.56	20.88	21.22	21.57	21.94	22.32	22.72	23.12	23.55	23.98
7.20	24.44	24.90	25.39	25.89	26.41	26.94	27.49	28.05	28.63	29.24
7.40	29.85	30.49	31.13	31.81	32.49	33.26	34.96	39.55	47.46	56.47
7.60	64.43	70.47	75.00	78.65	81.66	84.24	86.49	88.47	90.23	91.78
7.80	93.16	94.31	95.31	96.08	96.72	97.11	97.36	97.36	97.21	96.81
8.00	96.22	94.72	91.05	84.89	78.08	72.12	67.68	64.33	61.64	59.38
8.20	57.39	55.61	53.95	52.42	50.95	49.58	48.24	47.01	45.81	44.69
8.40	43.61	42.60	41.63	40.74	39.89	39.12	38.55	38.51	39.08	39.81
8.60	40.36	40.53	40.46	40.24	39.94	39.57	39.20	38.78	38.38	37.95
8.80	37.54	37.12	36.71	36.29	35.89	35.49	35.10	34.71	34.33	33.95
9.00	33.58	33.21	32.81	32.41	31.99	31.60	31.23	30.90	30.56	30.26
9.20	29.96	29.68	29.40	29.14	28.88	28.63	28.40	28.17	27.96	27.75
9.40	27.56	27.37	27.20	27.03	26.88	26.73	26.64	26.62	26.73	26.86
9.60	26.95	26.97	26.95	26.89	26.83	26.75	26.66	26.57	26.48	26.39
9.80	26.29	26.19	26.09	26.00	25.89	25.80	25.69	25.60	25.49	25.40
10.00	25.29	25.19	25.05	24.89	24.72	24.57	24.43	24.32	24.21	24.11
10.20	24.02	23.93	23.85	23.77	23.70	23.62	23.55	23.48	23.42	23.36
10.40	23.31	23.25	23.20	23.15	23.11	23.06	23.05	23.09	23.20	23.33
10.60	23.42	23.45	23.44	23.42	23.37	23.32	23.26	23.20	23.13	23.07
10.80	23.00	22.94	22.86	22.80	22.73	22.66	22.59	22.52	22.45	22.38
11.00	22.31	22.24	22.17	22.10	22.04	21.96	21.89	21.82	21.75	21.68
11.20	21.61	21.53	21.47	21.39	21.33	21.25	21.18	21.11	21.04	20.96
11.40	20.89	20.82	20.75	20.68	20.60	20.53	20.44	20.33	20.18	20.04
11.60	19.91	19.82	19.73	19.66	19.59	19.53	19.47	19.42	19.37	19.32
11.80	19.28	19.24	19.21	19.18	19.15	19.12	19.11	19.08	19.07	19.05
12.00	19.05									

SUBCATCHMENT 3 Basin J - Overall

PEAK= 90.05 CFS @ 7.97 HRS, VOLUME= 14.52 AF

ACRES	CN		
6.60	98	Paved Streets	SCS TR-20 METHOD
14.64	77	Brush - Group C Soil	TYPE IA 24-HOUR
39.02	94	Commercial - Group C Soil	RAINFALL= 5.50 IN
7.54	85	1/8 Acre Res - Group B Soil	SPAN= 6-12 HRS, dt=.02 HRS
11.91	90	1/8 Acre Res - Group C Soil	
79.71	90		

Method	Comment	Tc (min)
DIRECT ENTRY	Overland Flow	6.9
CIRCULAR CHANNEL	10" Pipe	2.8
10" Diameter a=.55 sq-ft Pw=2.6' r=.208'		
s=.028 '/' n=.013 V=6.72 fps L=1141' Capacity=3.7 cfs		
CIRCULAR CHANNEL	15" Pipe	.2
15" Diameter a=1.23 sq-ft Pw=3.9' r=.313'		
s=.029 '/' n=.013 V=8.96 fps L=105' Capacity=11 cfs		
CIRCULAR CHANNEL	24" Pipe	.4
24" Diameter a=3.14 sq-ft Pw=6.3' r=.5'		
s=.029 '/' n=.013 V=12.26 fps L=271' Capacity=38.5 cfs		
CIRCULAR CHANNEL	36" Pipe	.6
36" Diameter a=7.07 sq-ft Pw=9.4' r=.75'		
s=.007 '/' n=.013 V=7.89 fps L=297' Capacity=55.8 cfs		
CIRCULAR CHANNEL	48" Pipe	.2
48" Diameter a=12.57 sq-ft Pw=12.6' r=1'		
s=.005 '/' n=.011 V=9.55 fps L=90' Capacity=120 cfs		

	Total Length= 1904 ft Total Tc=	11.1

SUBCATCHMENT 3 RUNOFF PEAK= 90.05 CFS @ 7.97 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	16.06	16.20	16.36	16.54	16.75	16.99	17.24	17.50	17.75	17.98
6.20	18.21	18.42	18.60	18.78	18.94	19.10	19.26	19.40	19.53	19.66
6.40	19.78	19.90	20.02	20.12	20.22	20.31	20.39	20.45	20.46	20.41
6.60	20.31	20.18	20.04	19.91	19.80	19.74	19.71	19.73	19.77	19.83
6.80	19.91	20.01	20.13	20.27	20.41	20.58	20.76	20.95	21.16	21.38
7.00	21.61	21.86	22.12	22.39	22.68	22.98	23.29	23.61	23.96	24.31
7.20	24.68	25.05	25.45	25.86	26.28	26.72	27.16	27.62	28.10	28.60
7.40	29.10	29.62	30.15	30.70	31.27	31.85	32.53	33.70	35.69	38.91
7.60	43.41	48.67	54.21	59.60	64.61	68.97	72.60	75.68	78.33	80.66
7.80	82.65	84.37	85.81	87.02	88.02	88.82	89.42	89.82	90.02	90.04
8.00	89.90	89.47	88.58	86.99	84.52	81.24	77.42	73.38	69.41	65.73
8.20	62.46	59.63	57.14	54.88	52.84	50.97	49.25	47.65	46.15	44.74
8.40	43.43	42.20	41.04	39.94	38.91	37.94	37.06	36.31	35.72	35.35
8.60	35.18	35.17	35.22	35.27	35.26	35.17	35.01	34.78	34.52	34.21
8.80	33.88	33.54	33.19	32.84	32.47	32.10	31.73	31.37	31.01	30.66
9.00	30.30	29.94	29.59	29.24	28.89	28.53	28.17	27.82	27.48	27.15
9.20	26.83	26.52	26.23	25.95	25.68	25.42	25.17	24.92	24.69	24.47
9.40	24.26	24.05	23.86	23.67	23.49	23.33	23.17	23.03	22.93	22.86
9.60	22.83	22.83	22.82	22.82	22.81	22.79	22.75	22.69	22.62	22.55
9.80	22.48	22.40	22.32	22.23	22.14	22.06	21.97	21.88	21.79	21.69
10.00	21.61	21.52	21.42	21.31	21.20	21.08	20.96	20.84	20.72	20.60
10.20	20.49	20.39	20.30	20.21	20.12	20.03	19.96	19.89	19.81	19.74
10.40	19.67	19.61	19.56	19.50	19.44	19.39	19.34	19.31	19.29	19.29
10.60	19.31	19.34	19.37	19.40	19.42	19.41	19.39	19.37	19.34	19.30
10.80	19.25	19.19	19.14	19.09	19.03	18.97	18.91	18.85	18.79	18.73
11.00	18.67	18.61	18.54	18.48	18.42	18.36	18.29	18.23	18.17	18.11
11.20	18.04	17.98	17.91	17.85	17.79	17.73	17.66	17.60	17.53	17.47
11.40	17.41	17.35	17.28	17.21	17.15	17.09	17.03	16.95	16.88	16.79
11.60	16.70	16.61	16.51	16.42	16.33	16.25	16.19	16.12	16.06	16.00
11.80	15.95	15.91	15.86	15.82	15.78	15.74	15.71	15.68	15.66	15.63
12.00	15.61									

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6 Jan 06

SUBCATCHMENT 4 Basin J - Subbasin 1

PEAK= 22.83 CFS @ 7.98 HRS, VOLUME= 3.70 AF

ACRES	CN	
.91	98	Paved Streets
11.81	76	Forestland - Group C Soil
4.16	94	Commercial
7.06	90	1/8 Acre Res - Group C Soil
23.94	84	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	9.9

SUBCATCHMENT 4 RUNOFF PEAK= 22.83 CFS @ 7.98 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.33	3.37	3.41	3.46	3.52	3.58	3.64	3.71	3.77	3.83
6.20	3.88	3.93	3.97	4.02	4.06	4.10	4.14	4.18	4.22	4.25
6.40	4.29	4.32	4.35	4.38	4.41	4.44	4.46	4.48	4.49	4.47
6.60	4.45	4.42	4.39	4.37	4.36	4.36	4.37	4.39	4.41	4.44
6.80	4.47	4.50	4.54	4.58	4.62	4.67	4.72	4.78	4.84	4.90
7.00	4.96	5.03	5.10	5.17	5.25	5.33	5.41	5.50	5.59	5.68
7.20	5.78	5.88	5.98	6.09	6.20	6.32	6.43	6.56	6.68	6.81
7.40	6.94	7.08	7.22	7.37	7.52	7.67	7.87	8.23	8.87	9.90
7.60	11.25	12.73	14.20	15.56	16.73	17.70	18.53	19.25	19.88	20.43
7.80	20.91	21.33	21.69	22.00	22.26	22.47	22.63	22.75	22.81	22.83
8.00	22.80	22.69	22.43	21.93	21.16	20.16	19.07	17.99	16.98	16.11
8.20	15.37	14.73	14.16	13.65	13.19	12.76	12.36	11.99	11.64	11.31
8.40	11.00	10.71	10.43	10.17	9.93	9.70	9.49	9.33	9.22	9.18
8.60	9.19	9.23	9.27	9.30	9.29	9.26	9.21	9.15	9.07	8.99
8.80	8.90	8.81	8.72	8.63	8.53	8.44	8.34	8.25	8.16	8.07
9.00	7.98	7.89	7.80	7.71	7.62	7.52	7.43	7.34	7.25	7.17
9.20	7.09	7.02	6.95	6.87	6.81	6.74	6.68	6.62	6.56	6.51
9.40	6.45	6.40	6.36	6.31	6.27	6.23	6.19	6.16	6.14	6.13
9.60	6.13	6.14	6.14	6.15	6.14	6.14	6.12	6.11	6.09	6.07
9.80	6.05	6.03	6.01	5.99	5.97	5.94	5.92	5.90	5.87	5.85
10.00	5.83	5.80	5.78	5.75	5.72	5.69	5.65	5.62	5.59	5.56
10.20	5.53	5.51	5.49	5.46	5.44	5.42	5.40	5.39	5.37	5.35
10.40	5.34	5.32	5.31	5.29	5.28	5.27	5.26	5.25	5.25	5.26
10.60	5.27	5.28	5.29	5.30	5.30	5.30	5.29	5.28	5.27	5.26
10.80	5.25	5.23	5.22	5.20	5.19	5.17	5.16	5.14	5.13	5.11
11.00	5.10	5.08	5.06	5.05	5.03	5.01	5.00	4.98	4.96	4.95
11.20	4.93	4.92	4.90	4.88	4.87	4.85	4.83	4.82	4.80	4.78
11.40	4.77	4.75	4.73	4.72	4.70	4.68	4.66	4.64	4.62	4.60
11.60	4.57	4.55	4.52	4.50	4.48	4.46	4.44	4.42	4.41	4.39
11.80	4.38	4.37	4.36	4.35	4.34	4.33	4.32	4.32	4.31	4.31
12.00	4.30									

SUBCATCHMENT 5 Basin K - Subbasin 1

PEAK= 59.25 CFS @ 8.01 HRS, VOLUME= 9.67 AF

ACRES	CN	
8.03	98	Paved Streets
11.82	92	Commercial
27.16	90	1/8 Acre Res - Group C Soil
10.41	66	Forest/Brush - Group B Soil
57.42	87	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.4

SUBCATCHMENT 5 RUNOFF PEAK= 59.25 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	9.50	9.60	9.70	9.80	9.93	10.05	10.20	10.35	10.50	10.66
6.20	10.81	10.96	11.10	11.23	11.35	11.47	11.59	11.69	11.79	11.90
6.40	11.99	12.08	12.17	12.25	12.33	12.41	12.48	12.54	12.59	12.61
6.60	12.60	12.57	12.53	12.47	12.42	12.38	12.35	12.34	12.35	12.37
6.80	12.41	12.47	12.52	12.60	12.69	12.78	12.89	13.01	13.13	13.26
7.00	13.41	13.55	13.71	13.89	14.06	14.24	14.44	14.64	14.85	15.08
7.20	15.30	15.54	15.79	16.04	16.31	16.59	16.87	17.16	17.47	17.78
7.40	18.10	18.44	18.77	19.12	19.49	19.86	20.28	20.88	21.77	23.11
7.60	25.03	27.52	30.42	33.53	36.67	39.69	42.54	45.10	47.30	49.26
7.80	50.97	52.47	53.84	55.01	56.00	56.90	57.62	58.19	58.68	59.00
8.00	59.18	59.24	59.06	58.53	57.66	56.32	54.52	52.46	50.22	47.92
8.20	45.71	43.61	41.66	39.94	38.40	36.95	35.65	34.44	33.28	32.22
8.40	31.24	30.28	29.41	28.59	27.80	27.07	26.40	25.77	25.24	24.83
8.60	24.51	24.31	24.20	24.12	24.07	24.03	23.94	23.84	23.71	23.54
8.80	23.35	23.15	22.93	22.70	22.48	22.24	22.00	21.78	21.53	21.29
9.00	21.06	20.82	20.58	20.35	20.11	19.87	19.64	19.40	19.16	18.95
9.20	18.72	18.50	18.30	18.09	17.89	17.71	17.53	17.35	17.19	17.03
9.40	16.87	16.73	16.59	16.44	16.32	16.20	16.07	15.97	15.88	15.80
9.60	15.75	15.72	15.69	15.68	15.67	15.65	15.64	15.61	15.57	15.54
9.80	15.50	15.44	15.40	15.35	15.29	15.23	15.18	15.12	15.06	15.01
10.00	14.94	14.88	14.83	14.75	14.69	14.62	14.54	14.46	14.39	14.30
10.20	14.22	14.16	14.08	14.01	13.96	13.90	13.84	13.79	13.73	13.68
10.40	13.64	13.59	13.54	13.51	13.46	13.42	13.39	13.36	13.33	13.33
10.60	13.32	13.32	13.34	13.35	13.36	13.37	13.38	13.37	13.36	13.34
10.80	13.31	13.29	13.26	13.22	13.19	13.16	13.11	13.08	13.04	13.00
11.00	12.96	12.92	12.87	12.84	12.80	12.75	12.71	12.67	12.62	12.58
11.20	12.55	12.50	12.46	12.42	12.37	12.33	12.29	12.24	12.20	12.16
11.40	12.11	12.07	12.03	11.98	11.94	11.90	11.86	11.81	11.77	11.71
11.60	11.65	11.60	11.53	11.47	11.42	11.36	11.30	11.25	11.21	11.16
11.80	11.13	11.09	11.05	11.02	10.99	10.96	10.94	10.91	10.89	10.87
12.00	10.85									

SUBCATCHMENT 6 Basin K - Subbasin 2

PEAK= 70.99 CFS @ 8.02 HRS, VOLUME= 11.60 AF

ACRES	CN	
10.82	98	Paved Streets
13.91	91	Commercial/Industrial
4.22	81	1/3 Acre Res - Group C Soil
2.75	77	Forest/Brush - Group C Soil
2.46	67	Forest/Brush - Group B Soil
26.57	85	1/8 Acre Res - Group B Soil
12.27	74	Cemetery - Group C Soil
73.00	85	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.1

SUBCATCHMENT 6 RUNOFF PEAK= 70.99 CFS @ 8.02 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	10.61	10.72	10.84	10.97	11.11	11.27	11.45	11.63	11.81	12.00
6.20	12.18	12.35	12.52	12.68	12.82	12.96	13.10	13.23	13.35	13.48
6.40	13.59	13.70	13.82	13.92	14.01	14.12	14.21	14.28	14.34	14.37
6.60	14.36	14.33	14.29	14.23	14.18	14.14	14.12	14.11	14.14	14.18
6.80	14.23	14.31	14.39	14.49	14.60	14.72	14.85	15.00	15.15	15.31
7.00	15.49	15.68	15.87	16.07	16.29	16.52	16.75	17.00	17.26	17.52
7.20	17.80	18.09	18.39	18.70	19.03	19.35	19.70	20.06	20.42	20.80
7.40	21.19	21.59	22.00	22.44	22.87	23.32	23.87	24.61	25.74	27.44
7.60	29.83	32.89	36.41	40.17	43.92	47.54	50.92	53.92	56.53	58.86
7.80	60.90	62.70	64.33	65.75	66.96	68.04	68.94	69.64	70.23	70.67
8.00	70.91	70.98	70.80	70.19	69.07	67.43	65.21	62.61	59.90	57.13
8.20	54.44	51.95	49.69	47.65	45.84	44.19	42.63	41.20	39.88	38.62
8.40	37.44	36.36	35.31	34.33	33.42	32.56	31.74	31.02	30.41	29.91
8.60	29.58	29.39	29.28	29.23	29.21	29.15	29.07	28.96	28.78	28.57
8.80	28.35	28.10	27.83	27.57	27.30	27.01	26.73	26.45	26.15	25.86
9.00	25.59	25.30	25.01	24.74	24.45	24.16	23.88	23.60	23.31	23.04
9.20	22.78	22.51	22.26	22.03	21.79	21.56	21.36	21.14	20.94	20.76
9.40	20.57	20.39	20.22	20.06	19.90	19.76	19.62	19.49	19.39	19.31
9.60	19.24	19.21	19.19	19.17	19.16	19.15	19.12	19.09	19.06	19.01
9.80	18.95	18.90	18.84	18.77	18.71	18.65	18.57	18.51	18.44	18.37
10.00	18.29	18.23	18.15	18.07	17.99	17.90	17.80	17.71	17.62	17.52
10.20	17.43	17.34	17.25	17.18	17.11	17.03	16.96	16.90	16.84	16.77
10.40	16.73	16.67	16.61	16.57	16.52	16.47	16.43	16.40	16.37	16.36
10.60	16.36	16.37	16.39	16.41	16.42	16.43	16.44	16.43	16.41	16.39
10.80	16.36	16.32	16.29	16.25	16.21	16.17	16.12	16.07	16.03	15.98
11.00	15.93	15.88	15.84	15.78	15.73	15.68	15.63	15.58	15.53	15.48
11.20	15.42	15.38	15.33	15.27	15.22	15.17	15.12	15.06	15.02	14.96
11.40	14.91	14.86	14.81	14.75	14.70	14.65	14.59	14.54	14.49	14.42
11.60	14.35	14.28	14.20	14.12	14.05	13.98	13.91	13.86	13.80	13.75
11.80	13.70	13.66	13.61	13.58	13.55	13.51	13.48	13.46	13.43	13.40

SUBCATCHMENT 7 Basin K - Subbasin 3

PEAK= 20.89 CFS @ 7.98 HRS, VOLUME= 3.38 AF

ACRES	CN	
2.29	98	Paved Streets
7.53	94	Commercial
5.92	81	1/3 Acre Res - Group C Soil
4.87	76	Forest/Brush - Group C Soil
20.61	86	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.5

SUBCATCHMENT 7 RUNOFF PEAK= 20.89 CFS @ 7.98 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.27	3.30	3.34	3.38	3.43	3.49	3.55	3.61	3.66	3.72
6.20	3.77	3.81	3.86	3.90	3.94	3.98	4.01	4.05	4.08	4.11
6.40	4.14	4.17	4.20	4.23	4.25	4.28	4.30	4.31	4.32	4.31
6.60	4.29	4.26	4.23	4.21	4.20	4.19	4.19	4.20	4.22	4.24
6.80	4.26	4.29	4.32	4.36	4.40	4.44	4.48	4.53	4.58	4.64
7.00	4.69	4.75	4.81	4.88	4.95	5.02	5.10	5.17	5.25	5.34
7.20	5.42	5.52	5.61	5.71	5.81	5.91	6.02	6.12	6.24	6.36
7.40	6.48	6.60	6.73	6.86	6.99	7.13	7.31	7.62	8.15	8.98
7.60	10.09	11.36	12.66	13.91	15.03	15.99	16.80	17.49	18.09	18.62
7.80	19.08	19.47	19.82	20.11	20.35	20.54	20.69	20.80	20.87	20.89
8.00	20.86	20.77	20.56	20.17	19.55	18.71	17.76	16.79	15.86	15.02
8.20	14.31	13.69	13.15	12.65	12.20	11.79	11.41	11.05	10.72	10.41
8.40	10.12	9.84	9.58	9.33	9.10	8.88	8.69	8.52	8.40	8.34
8.60	8.33	8.35	8.38	8.39	8.40	8.37	8.33	8.27	8.21	8.14
8.80	8.06	7.98	7.89	7.81	7.72	7.64	7.55	7.47	7.39	7.30
9.00	7.22	7.14	7.05	6.97	6.89	6.81	6.72	6.64	6.56	6.48
9.20	6.41	6.34	6.27	6.21	6.14	6.08	6.03	5.97	5.92	5.87
9.40	5.82	5.77	5.72	5.68	5.64	5.60	5.57	5.54	5.52	5.50
9.60	5.50	5.50	5.51	5.51	5.51	5.50	5.49	5.48	5.46	5.44
9.80	5.43	5.41	5.39	5.37	5.35	5.33	5.31	5.29	5.27	5.24
10.00	5.22	5.20	5.18	5.15	5.13	5.10	5.07	5.04	5.01	4.98
10.20	4.96	4.94	4.91	4.89	4.87	4.85	4.84	4.82	4.80	4.79
10.40	4.77	4.76	4.74	4.73	4.72	4.71	4.70	4.69	4.69	4.69
10.60	4.70	4.71	4.72	4.72	4.73	4.73	4.72	4.72	4.71	4.70
10.80	4.68	4.67	4.66	4.65	4.63	4.62	4.61	4.59	4.58	4.56
11.00	4.55	4.53	4.52	4.50	4.49	4.47	4.46	4.44	4.43	4.41
11.20	4.40	4.38	4.37	4.35	4.34	4.32	4.31	4.29	4.28	4.26
11.40	4.25	4.23	4.22	4.20	4.19	4.17	4.16	4.14	4.12	4.10
11.60	4.08	4.05	4.03	4.01	3.99	3.97	3.95	3.94	3.93	3.91
11.80	3.90	3.89	3.88	3.87	3.86	3.85	3.85	3.84	3.83	3.83
12.00	3.82									

SUBCATCHMENT 8 Basin L - Overall

PEAK= 149.2 CFS @ 8.32 HRS, VOLUME= 29.76 AF

ACRES	CN		
8.20	98	Paved Streets	
38.14	85	1/8 Acre Res - Group B Soil	
24.76	75	1/4 Acre Res - Group B Soil	
5.21	65	2 Acre Res - Group B Soil	
10.36	88	Industrial	
23.53	92	Commercial	
77.21	65	Forest - Group B Soil	
76.11	76	Forest - Group C Soil	
263.52	76		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	37.5

SUBCATCHMENT 8 RUNOFF PEAK= 149.2 CFS @ 8.32 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	13.3	13.6	13.8	14.0	14.3	14.5	14.8	15.0	15.2	15.5
6.20	15.8	16.1	16.3	16.6	16.9	17.2	17.5	17.9	18.2	18.5
6.40	18.8	19.2	19.5	19.9	20.2	20.6	20.9	21.3	21.6	22.0
6.60	22.3	22.7	23.0	23.3	23.6	23.9	24.2	24.5	24.8	25.1
6.80	25.3	25.5	25.8	26.0	26.2	26.4	26.6	26.9	27.1	27.3
7.00	27.5	27.7	28.0	28.2	28.5	28.8	29.0	29.3	29.6	30.0
7.20	30.3	30.7	31.1	31.5	31.9	32.4	32.8	33.3	33.8	34.3
7.40	34.9	35.5	36.1	36.7	37.3	38.0	38.7	39.4	40.2	41.0
7.60	42.0	43.0	44.2	45.5	47.1	48.8	50.7	52.8	55.4	58.1
7.80	61.3	64.6	68.2	72.1	76.2	80.4	84.8	89.3	93.8	98.4
8.00	103.0	107.7	112.3	116.6	121.0	125.2	129.2	132.7	136.1	139.2
8.20	142.1	144.1	146.0	147.4	148.7	149.1	149.2	149.0	148.7	147.7
8.40	146.4	145.0	143.5	141.6	139.5	137.3	135.1	132.8	130.2	127.7
8.60	125.2	122.8	120.2	117.7	115.4	113.2	111.0	108.8	107.0	105.1
8.80	103.3	101.6	100.1	98.6	97.2	95.8	94.5	93.4	92.2	91.0
9.00	90.0	89.0	88.0	87.0	86.0	85.2	84.3	83.4	82.5	81.7
9.20	80.9	80.0	79.0	78.3	77.5	76.6	75.7	75.0	74.2	73.4
9.40	72.6	71.8	71.1	70.4	69.6	68.9	68.2	67.6	66.8	66.2
9.60	65.6	65.0	64.4	63.7	63.2	62.7	62.2	61.7	61.3	60.9
9.80	60.4	60.0	59.7	59.4	59.0	58.7	58.4	58.2	57.9	57.6
10.00	57.3	57.2	56.9	56.7	56.4	56.3	56.1	55.8	55.6	55.5
10.20	55.3	55.0	54.8	54.6	54.4	54.2	53.9	53.8	53.6	53.4
10.40	53.1	52.9	52.7	52.5	52.3	52.1	51.9	51.7	51.5	51.3
10.60	51.2	51.0	50.8	50.6	50.5	50.4	50.2	50.1	50.0	49.9
10.80	49.8	49.6	49.6	49.5	49.4	49.3	49.3	49.3	49.2	49.1
11.00	49.0	49.0	48.9	48.8	48.7	48.7	48.6	48.5	48.4	48.3
11.20	48.3	48.2	48.0	47.9	47.9	47.7	47.6	47.5	47.4	47.3
11.40	47.1	47.0	46.9	46.8	46.6	46.5	46.4	46.3	46.1	46.0

SUBCATCHMENT 9 Basin L - Subbasin 1

PEAK= 6.75 CFS @ 7.84 HRS, VOLUME= 1.07 AF

ACRES	CN		
2.12	98	Paved Streets	SCS TR-20 METHOD
3.76	85	1/8 Acre Res - Group B Soil	TYPE IA 24-HOUR
5.88	90		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	2.8

SUBCATCHMENT 9 RUNOFF PEAK= 6.75 CFS @ 7.84 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.26	1.28	1.32	1.35	1.36	1.38	1.39	1.40	1.41	1.42
6.20	1.43	1.44	1.45	1.46	1.47	1.48	1.48	1.49	1.50	1.50
6.40	1.51	1.52	1.52	1.53	1.53	1.53	1.51	1.46	1.43	1.43
6.60	1.43	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51
6.80	1.53	1.54	1.56	1.58	1.59	1.61	1.63	1.65	1.67	1.70
7.00	1.72	1.74	1.77	1.80	1.82	1.85	1.88	1.91	1.94	1.98
7.20	2.01	2.04	2.08	2.12	2.15	2.19	2.23	2.27	2.32	2.36
7.40	2.40	2.45	2.49	2.54	2.59	2.69	3.45	4.64	5.31	5.65
7.60	5.85	6.01	6.14	6.26	6.36	6.45	6.53	6.60	6.66	6.70
7.80	6.73	6.75	6.75	6.75	6.73	6.70	6.65	6.60	6.52	6.44
8.00	6.31	5.75	4.93	4.46	4.22	4.06	3.92	3.81	3.69	3.59
8.20	3.48	3.39	3.29	3.20	3.11	3.03	2.95	2.87	2.80	2.73
8.40	2.67	2.61	2.56	2.50	2.46	2.42	2.48	2.61	2.66	2.65
8.60	2.63	2.60	2.57	2.54	2.51	2.48	2.45	2.42	2.39	2.36
8.80	2.33	2.30	2.28	2.25	2.22	2.20	2.17	2.14	2.12	2.10
9.00	2.07	2.04	2.01	1.98	1.96	1.94	1.92	1.90	1.88	1.86
9.20	1.84	1.83	1.81	1.79	1.78	1.76	1.75	1.74	1.72	1.71
9.40	1.70	1.69	1.68	1.67	1.66	1.65	1.66	1.69	1.69	1.69
9.60	1.69	1.68	1.67	1.67	1.66	1.65	1.65	1.64	1.63	1.63
9.80	1.62	1.61	1.61	1.60	1.59	1.58	1.58	1.57	1.56	1.56
10.00	1.55	1.54	1.52	1.51	1.50	1.50	1.49	1.48	1.48	1.47
10.20	1.47	1.46	1.46	1.45	1.45	1.44	1.44	1.43	1.43	1.43
10.40	1.42	1.42	1.42	1.41	1.41	1.41	1.42	1.44	1.44	1.44
10.60	1.44	1.44	1.43	1.43	1.42	1.42	1.41	1.41	1.40	1.40
10.80	1.39	1.39	1.38	1.38	1.38	1.37	1.37	1.36	1.36	1.35
11.00	1.35	1.34	1.34	1.33	1.33	1.32	1.32	1.32	1.31	1.31
11.20	1.30	1.30	1.29	1.29	1.28	1.28	1.27	1.27	1.26	1.26
11.40	1.25	1.25	1.24	1.24	1.24	1.23	1.22	1.20	1.20	1.19
11.60	1.19	1.18	1.18	1.18	1.17	1.17	1.17	1.16	1.16	1.16
11.80	1.16	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
12.00	1.14									

TYPE IA 24-HOUR RAINFALL= 5.50 IN
Prepared by HBH Consulting Engineers, Inc. 9 Jan 06
HydroCAD 5.11 001354 (c) 1986-1999 Applied Microcomputer Systems

SUBCATCHMENT 1 Basin M - Overall

PEAK= 71.41 CFS @ 9.14 HRS, VOLUME= 17.75 AF

ACRES	CN	
7.00	98	Paved Streets
18.00	85	1/8 Acre Res - Group B Soil
12.00	92	Commercial
7.00	88	Industrial
80.00	73	Wetlands
153.00	58	Forest - Group B Soil
277.00	67	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	85.0

SUBCATCHMENT 1 RUNOFF PEAK= 71.41 CFS @ 9.14 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.06	.07	.08	.09	.11	.12	.14	.16	.18	.20
6.20	.23	.25	.29	.32	.36	.39	.43	.48	.53	.58
6.40	.63	.68	.75	.82	.88	.95	1.02	1.11	1.19	1.27
6.60	1.36	1.45	1.55	1.65	1.75	1.86	1.97	2.09	2.21	2.33
6.80	2.45	2.58	2.72	2.85	2.98	3.13	3.28	3.42	3.57	3.72
7.00	3.88	4.04	4.20	4.36	4.52	4.69	4.86	5.03	5.20	5.38
7.20	5.56	5.74	5.93	6.11	6.30	6.49	6.68	6.88	7.07	7.28
7.40	7.49	7.71	7.92	8.13	8.36	8.58	8.81	9.03	9.29	9.56
7.60	9.82	10.09	10.36	10.66	10.97	11.27	11.58	11.92	12.33	12.74
7.80	13.15	13.56	14.04	14.57	15.10	15.63	16.17	16.84	17.54	18.25
8.00	18.95	19.69	20.58	21.49	22.39	23.30	24.28	25.39	26.50	27.61
8.20	28.72	29.95	31.26	32.56	33.86	35.17	36.56	37.97	39.37	40.77
8.40	42.18	43.61	45.04	46.48	47.91	49.30	50.64	51.99	53.34	54.68
8.60	55.89	57.04	58.19	59.35	60.47	61.46	62.44	63.41	64.38	65.25
8.80	65.90	66.56	67.21	67.86	68.41	68.89	69.38	69.86	70.32	70.55
9.00	70.72	70.89	71.06	71.21	71.26	71.31	71.36	71.41	71.35	71.16
9.20	70.98	70.79	70.61	70.38	70.13	69.88	69.63	69.36	69.00	68.62
9.40	68.24	67.86	67.48	67.10	66.72	66.34	65.96	65.56	65.13	64.70
9.60	64.27	63.85	63.45	63.06	62.67	62.29	61.89	61.49	61.08	60.66
9.80	60.25	59.86	59.50	59.14	58.77	58.41	58.04	57.66	57.28	56.90
10.00	56.52	56.18	55.85	55.52	55.19	54.85	54.50	54.16	53.81	53.46
10.20	53.14	52.85	52.56	52.26	51.97	51.67	51.37	51.07	50.77	50.48
10.40	50.23	49.98	49.74	49.49	49.24	48.98	48.73	48.47	48.21	47.98
10.60	47.78	47.58	47.38	47.17	46.95	46.73	46.51	46.29	46.08	45.91
10.80	45.74	45.57	45.40	45.23	45.04	44.85	44.66	44.48	44.33	44.19
11.00	44.05	43.91	43.77	43.61	43.46	43.30	43.14	43.00	42.88	42.77
11.20	42.66	42.55	42.42	42.29	42.16	42.02	41.89	41.79	41.70	41.61
11.40	41.52	41.42	41.30	41.19	41.07	40.96	40.85	40.77	40.69	40.61
11.60	40.53	40.44	40.33	40.22	40.12	40.02	39.94	39.86	39.78	39.71
11.80	39.62	39.52	39.42	39.31	39.21	39.12	39.04	38.96	38.88	38.80
12.00	38.70									

SUBCATCHMENT 2 Basin M - Subbasin 1

PEAK= 6.98 CFS @ 8.17 HRS, VOLUME= 1.27 AF

ACRES	CN		
1.77	98	Paved Streets	SCS TR-20 METHOD
1.63	92	Commercial - Group B Soil	TYPE IA 24-HOUR
.92	85	Trailer Park	RAINFALL= 5.50 IN
7.25	65	Forest/Brush - Fair Condition	SPAN= 6-12 HRS, dt=.02 HRS
11.57	75		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	25.4

SUBCATCHMENT 2 RUNOFF PEAK= 6.98 CFS @ 8.17 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.60	.61	.62	.63	.64	.65	.67	.68	.69	.70
6.20	.72	.73	.75	.76	.78	.79	.81	.83	.84	.86
6.40	.87	.89	.90	.92	.93	.95	.96	.98	.99	1.01
6.60	1.02	1.03	1.04	1.06	1.07	1.07	1.08	1.09	1.10	1.11
6.80	1.11	1.12	1.13	1.13	1.14	1.15	1.16	1.17	1.18	1.19
7.00	1.20	1.22	1.23	1.24	1.26	1.28	1.29	1.31	1.33	1.35
7.20	1.37	1.39	1.42	1.44	1.47	1.49	1.52	1.55	1.58	1.61
7.40	1.64	1.68	1.71	1.74	1.78	1.82	1.86	1.90	1.95	2.01
7.60	2.07	2.16	2.25	2.37	2.51	2.67	2.85	3.06	3.28	3.52
7.80	3.76	4.01	4.27	4.53	4.77	5.02	5.26	5.49	5.71	5.92
8.00	6.10	6.28	6.44	6.58	6.71	6.81	6.89	6.95	6.97	6.97
8.20	6.95	6.89	6.82	6.72	6.60	6.47	6.34	6.18	6.03	5.88
8.40	5.72	5.57	5.42	5.27	5.13	4.99	4.86	4.74	4.62	4.51
8.60	4.40	4.30	4.21	4.13	4.04	3.98	3.91	3.86	3.81	3.76
8.80	3.72	3.68	3.65	3.61	3.58	3.55	3.52	3.49	3.45	3.43
9.00	3.39	3.36	3.33	3.30	3.26	3.23	3.20	3.16	3.13	3.10
9.20	3.07	3.04	3.00	2.97	2.94	2.91	2.88	2.85	2.82	2.80
9.40	2.77	2.74	2.72	2.69	2.66	2.64	2.62	2.59	2.58	2.55
9.60	2.54	2.52	2.50	2.49	2.47	2.46	2.45	2.44	2.43	2.42
9.80	2.41	2.41	2.40	2.39	2.39	2.38	2.37	2.37	2.36	2.36
10.00	2.35	2.34	2.33	2.33	2.32	2.31	2.31	2.30	2.29	2.28
10.20	2.27	2.26	2.26	2.24	2.24	2.23	2.22	2.21	2.20	2.19
10.40	2.18	2.17	2.17	2.16	2.15	2.14	2.14	2.13	2.13	2.12
10.60	2.11	2.11	2.11	2.10	2.10	2.10	2.09	2.09	2.09	2.09
10.80	2.09	2.09	2.09	2.09	2.08	2.08	2.08	2.08	2.08	2.07
11.00	2.07	2.07	2.06	2.06	2.06	2.05	2.05	2.04	2.04	2.03
11.20	2.03	2.02	2.02	2.01	2.00	2.00	1.99	1.99	1.98	1.98
11.40	1.97	1.97	1.96	1.95	1.95	1.94	1.94	1.93	1.92	1.92
11.60	1.91	1.91	1.90	1.89	1.89	1.88	1.87	1.86	1.86	1.85
11.80	1.84	1.84	1.83	1.82	1.82	1.81	1.80	1.80	1.79	1.79
12.00	1.78									

SUBCATCHMENT 3 Basin M - Subbasin 2

PEAK= 11.84 CFS @ 7.94 HRS, VOLUME= 1.91 AF

ACRES	CN		
2.57	98	Paved Streets	SCS TR-20 METHOD
5.49	86	1/5 Acre Res - Group C Soil	TYPE IA 24-HOUR
4.27	72	Forest - Group C Soil	RAINFALL= 5.50 IN
12.33	84		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path - Velocity Method	7.2

SUBCATCHMENT 3 RUNOFF PEAK= 11.84 CFS @ 7.94 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.75	1.78	1.80	1.84	1.87	1.91	1.95	1.98	2.00	2.03
6.20	2.05	2.08	2.10	2.12	2.14	2.16	2.18	2.19	2.21	2.23
6.40	2.24	2.26	2.28	2.29	2.30	2.32	2.33	2.33	2.31	2.29
6.60	2.26	2.25	2.24	2.24	2.24	2.25	2.26	2.28	2.29	2.31
6.80	2.33	2.35	2.38	2.40	2.43	2.46	2.49	2.52	2.55	2.59
7.00	2.62	2.66	2.70	2.74	2.79	2.83	2.88	2.93	2.97	3.03
7.20	3.08	3.14	3.19	3.25	3.31	3.38	3.44	3.51	3.58	3.65
7.40	3.72	3.79	3.87	3.95	4.03	4.12	4.28	4.65	5.36	6.31
7.60	7.28	8.14	8.81	9.33	9.76	10.12	10.43	10.69	10.92	11.13
7.80	11.30	11.45	11.57	11.67	11.75	11.80	11.83	11.84	11.82	11.78
8.00	11.71	11.58	11.28	10.72	10.00	9.27	8.64	8.15	7.76	7.43
8.20	7.15	6.90	6.68	6.47	6.28	6.10	5.93	5.76	5.61	5.46
8.40	5.33	5.20	5.08	4.96	4.85	4.75	4.67	4.63	4.64	4.70
8.60	4.76	4.80	4.81	4.79	4.77	4.73	4.69	4.64	4.59	4.54
8.80	4.49	4.44	4.39	4.34	4.30	4.25	4.20	4.15	4.10	4.06
9.00	4.01	3.97	3.92	3.87	3.82	3.77	3.73	3.69	3.65	3.61
9.20	3.57	3.53	3.50	3.46	3.43	3.40	3.37	3.34	3.32	3.29
9.40	3.27	3.24	3.22	3.20	3.18	3.16	3.15	3.14	3.14	3.15
9.60	3.16	3.17	3.17	3.16	3.16	3.15	3.14	3.13	3.12	3.11
9.80	3.10	3.08	3.07	3.06	3.05	3.04	3.02	3.01	3.00	2.99
10.00	2.98	2.96	2.95	2.93	2.91	2.89	2.88	2.86	2.85	2.83
10.20	2.82	2.81	2.80	2.79	2.78	2.77	2.76	2.75	2.75	2.74
10.40	2.73	2.72	2.72	2.71	2.70	2.70	2.70	2.70	2.70	2.72
10.60	2.73	2.73	2.74	2.73	2.73	2.73	2.72	2.71	2.71	2.70
10.80	2.69	2.68	2.67	2.66	2.66	2.65	2.64	2.63	2.62	2.62
11.00	2.61	2.60	2.59	2.58	2.57	2.56	2.56	2.55	2.54	2.53
11.20	2.52	2.51	2.51	2.50	2.49	2.48	2.47	2.46	2.45	2.45
11.40	2.44	2.43	2.42	2.41	2.40	2.39	2.38	2.37	2.36	2.34
11.60	2.33	2.31	2.30	2.29	2.28	2.27	2.27	2.26	2.25	2.25
11.80	2.24	2.24	2.23	2.23	2.23	2.22	2.22	2.22	2.21	2.21
12.00	2.21									

SUBCATCHMENT 4 Basin O - Subbasin 1

PEAK= 12.76 CFS @ 7.97 HRS, VOLUME= 2.07 AF

ACRES	CN		
1.95	98	Paved Streets	
12.30	80	1/5 Acre Res - Group B Soil	
14.25	82		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	8.6

SUBCATCHMENT 4 RUNOFF PEAK= 12.76 CFS @ 7.97 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.73	1.75	1.78	1.81	1.84	1.88	1.92	1.95	1.99	2.02
6.20	2.04	2.07	2.09	2.12	2.14	2.16	2.19	2.21	2.23	2.25
6.40	2.27	2.28	2.30	2.32	2.34	2.35	2.37	2.37	2.37	2.36
6.60	2.34	2.32	2.31	2.31	2.31	2.31	2.32	2.34	2.35	2.37
6.80	2.39	2.41	2.44	2.46	2.49	2.52	2.55	2.58	2.61	2.65
7.00	2.69	2.73	2.77	2.81	2.86	2.90	2.95	3.00	3.05	3.11
7.20	3.16	3.22	3.28	3.34	3.41	3.47	3.54	3.61	3.68	3.76
7.40	3.83	3.91	3.99	4.08	4.16	4.25	4.39	4.66	5.17	5.92
7.60	6.81	7.70	8.53	9.22	9.78	10.26	10.67	11.02	11.33	11.60
7.80	11.84	12.05	12.23	12.38	12.51	12.61	12.68	12.73	12.76	12.75
8.00	12.72	12.62	12.42	12.03	11.45	10.78	10.11	9.50	8.98	8.56
8.20	8.21	7.89	7.61	7.36	7.13	6.91	6.71	6.52	6.34	6.17
8.40	6.01	5.86	5.72	5.58	5.45	5.34	5.23	5.16	5.13	5.15
8.60	5.19	5.23	5.26	5.26	5.25	5.22	5.18	5.14	5.10	5.05
8.80	4.99	4.94	4.89	4.84	4.78	4.73	4.68	4.63	4.57	4.52
9.00	4.47	4.42	4.37	4.32	4.27	4.22	4.17	4.12	4.07	4.03
9.20	3.98	3.94	3.90	3.87	3.83	3.80	3.76	3.73	3.70	3.67
9.40	3.64	3.61	3.59	3.56	3.54	3.52	3.50	3.49	3.48	3.48
9.60	3.49	3.50	3.50	3.50	3.50	3.49	3.48	3.47	3.46	3.45
9.80	3.44	3.43	3.42	3.40	3.39	3.38	3.36	3.35	3.34	3.33
10.00	3.31	3.30	3.28	3.27	3.25	3.23	3.21	3.19	3.18	3.16
10.20	3.15	3.13	3.12	3.11	3.10	3.09	3.08	3.07	3.06	3.05
10.40	3.04	3.03	3.03	3.02	3.01	3.01	3.00	3.00	3.00	3.01
10.60	3.02	3.03	3.03	3.04	3.04	3.03	3.03	3.02	3.01	3.01
10.80	3.00	2.99	2.98	2.97	2.96	2.96	2.95	2.94	2.93	2.92
11.00	2.91	2.90	2.89	2.88	2.87	2.87	2.86	2.85	2.84	2.83
11.20	2.82	2.81	2.80	2.79	2.78	2.77	2.76	2.75	2.74	2.73
11.40	2.73	2.72	2.71	2.70	2.69	2.68	2.67	2.66	2.64	2.63
11.60	2.61	2.60	2.58	2.57	2.56	2.55	2.54	2.53	2.52	2.52
11.80	2.51	2.50	2.50	2.49	2.49	2.48	2.48	2.48	2.47	2.47
12.00	2.47									

SUBCATCHMENT 5 Basin O - Subbasin 2

PEAK= 14.03 CFS @ 8.01 HRS, VOLUME= 2.29 AF

ACRES	CN		
2.46	98	Paved Streets	SCS TR-20 METHOD
12.87	80	1/5 Acre Res - Group B Soil	TYPE IA 24-HOUR
15.33	83		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	12.1

SUBCATCHMENT 5 RUNOFF PEAK= 14.03 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.95	1.97	1.99	2.02	2.05	2.08	2.12	2.16	2.19	2.23
6.20	2.26	2.30	2.33	2.36	2.39	2.41	2.44	2.47	2.49	2.51
6.40	2.54	2.56	2.58	2.60	2.62	2.64	2.66	2.68	2.69	2.69
6.60	2.69	2.68	2.67	2.66	2.65	2.65	2.64	2.65	2.66	2.67
6.80	2.68	2.70	2.72	2.74	2.77	2.79	2.82	2.85	2.88	2.92
7.00	2.95	2.99	3.03	3.07	3.12	3.17	3.21	3.26	3.32	3.37
7.20	3.43	3.49	3.55	3.61	3.67	3.74	3.81	3.88	3.96	4.03
7.40	4.11	4.19	4.28	4.36	4.45	4.55	4.65	4.81	5.06	5.45
7.60	6.01	6.71	7.48	8.27	9.03	9.75	10.38	10.93	11.40	11.83
7.80	12.21	12.54	12.84	13.10	13.33	13.52	13.68	13.82	13.92	13.99
8.00	14.03	14.03	13.96	13.80	13.53	13.13	12.63	12.07	11.49	10.93
8.20	10.41	9.93	9.52	9.15	8.81	8.50	8.21	7.95	7.70	7.47
8.40	7.25	7.05	6.85	6.67	6.50	6.34	6.19	6.06	5.95	5.88
8.60	5.83	5.81	5.81	5.81	5.81	5.81	5.79	5.76	5.73	5.68
8.80	5.64	5.59	5.53	5.48	5.42	5.37	5.31	5.25	5.20	5.14
9.00	5.08	5.03	4.97	4.92	4.86	4.80	4.75	4.69	4.63	4.58
9.20	4.53	4.48	4.43	4.38	4.34	4.30	4.25	4.21	4.18	4.14
9.40	4.10	4.07	4.04	4.01	3.98	3.95	3.92	3.90	3.88	3.87
9.60	3.86	3.86	3.85	3.86	3.85	3.85	3.85	3.84	3.83	3.82
9.80	3.81	3.80	3.79	3.77	3.76	3.75	3.74	3.72	3.71	3.69
10.00	3.68	3.66	3.65	3.63	3.62	3.60	3.58	3.56	3.54	3.52
10.20	3.50	3.49	3.47	3.46	3.44	3.43	3.41	3.40	3.39	3.38
10.40	3.37	3.36	3.35	3.34	3.33	3.32	3.32	3.31	3.30	3.30
10.60	3.31	3.31	3.32	3.32	3.33	3.33	3.33	3.32	3.32	3.31
10.80	3.31	3.30	3.29	3.28	3.27	3.27	3.26	3.25	3.24	3.23
11.00	3.22	3.21	3.20	3.19	3.18	3.17	3.16	3.15	3.14	3.13
11.20	3.12	3.11	3.10	3.09	3.08	3.07	3.06	3.05	3.04	3.03
11.40	3.02	3.00	2.99	2.98	2.97	2.96	2.95	2.94	2.93	2.91
11.60	2.90	2.89	2.87	2.85	2.84	2.83	2.81	2.80	2.79	2.78
11.80	2.77	2.76	2.76	2.75	2.74	2.74	2.73	2.73	2.72	2.72
12.00	2.71									

SUBCATCHMENT 6 Basin O - Subbasin 3

PEAK= 19.65 CFS @ 8.02 HRS, VOLUME= 3.37 AF

ACRES	CN		
2.22	98	Paved Streets	SCS TR-20 METHOD
10.20	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
47.29	58	Forest - Group B Soil	RAINFALL= 5.50 IN
59.71	62		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	8.3

SUBCATCHMENT 6 RUNOFF PEAK= 19.65 CFS @ 8.02 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.01	.02	.04
6.40	.06	.09	.13	.17	.21	.25	.30	.34	.38	.42
6.60	.46	.49	.53	.57	.61	.65	.69	.73	.77	.81
6.80	.86	.90	.95	1.00	1.05	1.10	1.15	1.20	1.26	1.31
7.00	1.37	1.43	1.50	1.56	1.63	1.70	1.77	1.85	1.92	2.00
7.20	2.09	2.17	2.27	2.36	2.46	2.56	2.66	2.77	2.88	3.00
7.40	3.12	3.24	3.37	3.51	3.65	3.80	4.00	4.36	4.98	5.89
7.60	6.96	8.07	9.12	10.07	10.92	11.71	12.46	13.18	13.86	14.51
7.80	15.14	15.74	16.31	16.84	17.35	17.82	18.25	18.63	18.98	19.27
8.00	19.51	19.65	19.55	19.12	18.34	17.39	16.44	15.59	14.90	14.34
8.20	13.87	13.45	13.08	12.74	12.42	12.12	11.84	11.58	11.32	11.08
8.40	10.84	10.62	10.41	10.21	10.02	9.85	9.70	9.61	9.61	9.69
8.60	9.82	9.94	10.02	10.06	10.06	10.04	10.00	9.94	9.88	9.81
8.80	9.74	9.67	9.59	9.52	9.44	9.36	9.28	9.20	9.13	9.05
9.00	8.97	8.89	8.81	8.73	8.64	8.56	8.47	8.39	8.32	8.24
9.20	8.17	8.11	8.04	7.98	7.92	7.87	7.81	7.76	7.71	7.67
9.40	7.62	7.58	7.54	7.50	7.47	7.43	7.41	7.39	7.40	7.42
9.60	7.45	7.48	7.50	7.51	7.51	7.51	7.50	7.49	7.48	7.46
9.80	7.45	7.43	7.42	7.40	7.39	7.37	7.35	7.33	7.31	7.30
10.00	7.28	7.26	7.23	7.21	7.17	7.14	7.11	7.08	7.05	7.02
10.20	7.00	6.98	6.96	6.95	6.93	6.92	6.90	6.89	6.88	6.87
10.40	6.86	6.85	6.84	6.83	6.82	6.82	6.81	6.82	6.83	6.86
10.60	6.89	6.92	6.94	6.95	6.96	6.96	6.95	6.94	6.94	6.93
10.80	6.91	6.90	6.89	6.88	6.86	6.85	6.84	6.82	6.81	6.79
11.00	6.78	6.76	6.75	6.74	6.72	6.70	6.69	6.67	6.66	6.64
11.20	6.63	6.61	6.60	6.58	6.57	6.55	6.53	6.52	6.50	6.48
11.40	6.47	6.45	6.43	6.42	6.40	6.38	6.36	6.34	6.31	6.28
11.60	6.24	6.21	6.18	6.16	6.14	6.12	6.10	6.09	6.08	6.06
11.80	6.05	6.04	6.03	6.03	6.02	6.02	6.01	6.01	6.01	6.00
12.00	6.00									

SUBCATCHMENT 7 Basin O - Subbasin 4

PEAK= 9.97 CFS @ 7.95 HRS, VOLUME= 1.62 AF

ACRES	CN		
2.69	98	Paved Streets	SCS TR-20 METHOD
10.67	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
13.36	77		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.0

SUBCATCHMENT 7 RUNOFF PEAK= 9.97 CFS @ 7.95 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.09	1.11	1.13	1.16	1.19	1.22	1.25	1.27	1.29	1.31
6.20	1.33	1.35	1.37	1.39	1.41	1.42	1.44	1.46	1.47	1.49
6.40	1.51	1.52	1.54	1.55	1.56	1.58	1.59	1.59	1.57	1.55
6.60	1.54	1.54	1.54	1.55	1.56	1.57	1.59	1.60	1.62	1.64
6.80	1.66	1.68	1.70	1.73	1.75	1.78	1.80	1.83	1.86	1.89
7.00	1.92	1.96	1.99	2.03	2.06	2.10	2.14	2.19	2.23	2.27
7.20	2.32	2.37	2.42	2.47	2.52	2.58	2.63	2.69	2.75	2.81
7.40	2.88	2.94	3.01	3.08	3.15	3.23	3.41	3.88	4.68	5.58
7.60	6.37	6.97	7.43	7.80	8.12	8.39	8.64	8.86	9.05	9.23
7.80	9.39	9.53	9.65	9.75	9.84	9.90	9.94	9.97	9.97	9.95
8.00	9.90	9.76	9.39	8.74	8.03	7.43	6.99	6.66	6.39	6.16
8.20	5.97	5.79	5.62	5.47	5.32	5.18	5.05	4.92	4.80	4.68
8.40	4.57	4.47	4.37	4.28	4.19	4.12	4.06	4.06	4.13	4.21
8.60	4.27	4.29	4.28	4.26	4.23	4.19	4.15	4.11	4.07	4.02
8.80	3.98	3.94	3.90	3.86	3.81	3.77	3.73	3.69	3.65	3.61
9.00	3.58	3.54	3.50	3.45	3.41	3.37	3.33	3.30	3.26	3.23
9.20	3.20	3.17	3.14	3.12	3.09	3.06	3.04	3.02	3.00	2.97
9.40	2.95	2.93	2.92	2.90	2.88	2.87	2.86	2.86	2.87	2.89
9.60	2.90	2.90	2.90	2.89	2.89	2.88	2.87	2.86	2.85	2.84
9.80	2.83	2.82	2.81	2.80	2.79	2.78	2.77	2.76	2.75	2.74
10.00	2.73	2.72	2.71	2.69	2.67	2.66	2.64	2.63	2.62	2.61
10.20	2.60	2.59	2.58	2.57	2.57	2.56	2.55	2.55	2.54	2.53
10.40	2.53	2.52	2.52	2.51	2.51	2.50	2.50	2.51	2.52	2.53
10.60	2.54	2.55	2.55	2.55	2.54	2.54	2.53	2.52	2.52	2.51
10.80	2.50	2.50	2.49	2.48	2.47	2.47	2.46	2.45	2.45	2.44
11.00	2.43	2.42	2.42	2.41	2.40	2.40	2.39	2.38	2.37	2.37
11.20	2.36	2.35	2.34	2.34	2.33	2.32	2.31	2.31	2.30	2.29
11.40	2.28	2.28	2.27	2.26	2.25	2.25	2.24	2.22	2.21	2.19
11.60	2.18	2.17	2.16	2.15	2.14	2.14	2.13	2.13	2.12	2.12
11.80	2.11	2.11	2.11	2.10	2.10	2.10	2.10	2.09	2.09	2.09
12.00	2.09									

SUBCATCHMENT 8 Basin P

PEAK= 36.62 CFS @ 9.20 HRS, VOLUME= 9.19 AF

ACRES	CN		
1.56	89	Paved Streets	SCS TR-20 METHOD
7.57	75	1/4 Acre Res - Group B Soil	TYPE IA 24-HOUR
145.87	65	Forest/Brush - Group B Soil	RAINFALL= 5.50 IN
155.00	66		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	90.0

SUBCATCHMENT 8 RUNOFF PEAK= 36.62 CFS @ 9.20 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.01	.01	.01	.01	.01	.02	.02	.02	.03	.03
6.20	.04	.04	.05	.06	.06	.07	.09	.10	.11	.12
6.40	.14	.15	.17	.19	.21	.23	.26	.28	.31	.34
6.60	.37	.40	.44	.47	.51	.55	.59	.63	.68	.72
6.80	.77	.83	.88	.93	.99	1.04	1.11	1.17	1.23	1.30
7.00	1.36	1.43	1.51	1.58	1.65	1.72	1.80	1.88	1.96	2.04
7.20	2.13	2.21	2.30	2.39	2.48	2.57	2.66	2.76	2.85	2.95
7.40	3.05	3.16	3.26	3.37	3.48	3.59	3.70	3.82	3.94	4.05
7.60	4.18	4.32	4.47	4.61	4.75	4.91	5.08	5.25	5.42	5.59
7.80	5.80	6.03	6.26	6.49	6.72	6.98	7.29	7.59	7.89	8.19
8.00	8.54	8.93	9.33	9.73	10.13	10.58	11.09	11.59	12.10	12.61
8.20	13.16	13.76	14.36	14.96	15.56	16.20	16.88	17.56	18.24	18.92
8.40	19.62	20.33	21.04	21.75	22.46	23.17	23.87	24.57	25.27	25.97
8.60	26.64	27.28	27.91	28.55	29.18	29.76	30.27	30.78	31.29	31.80
8.80	32.27	32.69	33.11	33.53	33.95	34.29	34.55	34.82	35.08	35.34
9.00	35.57	35.75	35.94	36.13	36.32	36.43	36.48	36.52	36.56	36.61
9.20	36.62	36.61	36.60	36.59	36.58	36.51	36.40	36.29	36.18	36.07
9.40	35.95	35.81	35.67	35.53	35.39	35.23	35.03	34.84	34.64	34.45
9.60	34.26	34.08	33.89	33.71	33.52	33.33	33.14	32.94	32.74	32.54
9.80	32.35	32.18	32.00	31.82	31.65	31.46	31.27	31.08	30.89	30.71
10.00	30.53	30.36	30.20	30.03	29.87	29.70	29.53	29.35	29.18	29.01
10.20	28.84	28.69	28.54	28.39	28.25	28.09	27.94	27.78	27.63	27.47
10.40	27.33	27.20	27.07	26.95	26.82	26.69	26.55	26.42	26.28	26.15
10.60	26.03	25.92	25.81	25.71	25.60	25.49	25.37	25.26	25.14	25.02
10.80	24.92	24.83	24.74	24.66	24.57	24.47	24.38	24.28	24.18	24.08
11.00	24.00	23.92	23.85	23.78	23.71	23.63	23.55	23.47	23.38	23.30
11.20	23.23	23.17	23.11	23.05	23.00	22.93	22.86	22.79	22.72	22.66
11.40	22.60	22.55	22.50	22.45	22.40	22.35	22.29	22.22	22.16	22.10
11.60	22.05	22.01	21.97	21.92	21.88	21.83	21.77	21.72	21.66	21.60
11.80	21.55	21.51	21.47	21.43	21.39	21.34	21.29	21.23	21.17	21.12
12.00	21.07									

SUBCATCHMENT 9 Basin Q

PEAK= 35.78 CFS @ 9.18 HRS, VOLUME= 9.01 AF

ACRES	CN	
1.62	89	Paved Streets
9.53	75	1/4 Acre Res - Group B Soil
3.80	61	Grass Fields
4.58	92	School
106.90	67	Undeveloped
126.43	69	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	90.0

SUBCATCHMENT 9 RUNOFF PEAK= 35.78 CFS @ 9.18 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.16	.18	.20	.22	.24	.26	.28	.31	.33	.36
6.20	.38	.41	.45	.48	.51	.54	.58	.62	.66	.70
6.40	.74	.79	.83	.88	.93	.98	1.03	1.08	1.14	1.19
6.60	1.25	1.31	1.37	1.44	1.50	1.56	1.63	1.70	1.77	1.84
6.80	1.91	1.99	2.07	2.14	2.22	2.30	2.38	2.46	2.54	2.62
7.00	2.70	2.79	2.88	2.96	3.05	3.14	3.23	3.32	3.40	3.49
7.20	3.59	3.68	3.78	3.87	3.97	4.06	4.16	4.26	4.36	4.46
7.40	4.56	4.67	4.77	4.88	4.99	5.10	5.22	5.33	5.44	5.56
7.60	5.69	5.83	5.97	6.11	6.25	6.40	6.57	6.74	6.90	7.07
7.80	7.27	7.49	7.72	7.94	8.17	8.43	8.72	9.02	9.31	9.60
8.00	9.94	10.33	10.72	11.10	11.49	11.93	12.42	12.91	13.40	13.89
8.20	14.43	15.01	15.58	16.16	16.74	17.35	18.00	18.65	19.30	19.95
8.40	20.62	21.29	21.97	22.64	23.31	23.98	24.63	25.29	25.94	26.60
8.60	27.22	27.81	28.39	28.98	29.57	30.09	30.55	31.01	31.47	31.93
8.80	32.34	32.71	33.08	33.45	33.82	34.11	34.32	34.54	34.75	34.96
9.00	35.14	35.28	35.42	35.56	35.70	35.77	35.77	35.77	35.77	35.78
9.20	35.75	35.70	35.65	35.60	35.55	35.45	35.31	35.17	35.02	34.88
9.40	34.72	34.56	34.39	34.23	34.06	33.87	33.65	33.44	33.22	33.00
9.60	32.79	32.59	32.39	32.19	31.98	31.78	31.57	31.35	31.14	30.93
9.80	30.73	30.54	30.35	30.16	29.97	29.78	29.58	29.38	29.18	28.98
10.00	28.80	28.62	28.45	28.27	28.10	27.92	27.75	27.57	27.39	27.21
10.20	27.04	26.89	26.73	26.57	26.42	26.26	26.10	25.94	25.78	25.62
10.40	25.48	25.35	25.21	25.08	24.95	24.82	24.68	24.54	24.41	24.27
10.60	24.15	24.04	23.92	23.81	23.70	23.59	23.47	23.36	23.24	23.12
10.80	23.02	22.93	22.83	22.74	22.65	22.56	22.46	22.36	22.26	22.16
11.00	22.07	22.00	21.92	21.85	21.77	21.70	21.61	21.53	21.45	21.37
11.20	21.29	21.23	21.17	21.11	21.05	20.99	20.92	20.85	20.78	20.71
11.40	20.65	20.60	20.55	20.49	20.44	20.39	20.33	20.27	20.20	20.14
11.60	20.09	20.05	20.00	19.96	19.91	19.86	19.81	19.75	19.69	19.64
11.80	19.59	19.54	19.50	19.46	19.42	19.37	19.32	19.26	19.21	19.15
12.00	19.10									

SUBCATCHMENT 10 Basin R

PEAK= 17.78 CFS @ 9.11 HRS, VOLUME= 4.48 AF

ACRES	CN		
2.70	89	Paved Streets	SCS TR-20 METHOD
17.00	75	1/4 Acre Res - Group B Soil	TYPE IA 24-HOUR
14.00	69	Park	RAINFALL= 5.50 IN
25.70	66	Undeveloped	SPAN= 6-12 HRS, dt=.02 HRS
59.40	70		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	90.0

SUBCATCHMENT 10 RUNOFF PEAK= 17.78 CFS @ 9.11 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.15	.17	.18	.19	.21	.22	.24	.25	.27	.29
6.20	.31	.33	.34	.36	.38	.41	.43	.45	.47	.50
6.40	.52	.55	.58	.60	.63	.66	.69	.72	.75	.78
6.60	.81	.84	.88	.91	.95	.98	1.02	1.05	1.09	1.13
6.80	1.17	1.21	1.25	1.29	1.32	1.37	1.41	1.45	1.49	1.53
7.00	1.57	1.62	1.66	1.71	1.75	1.79	1.84	1.88	1.93	1.97
7.20	2.02	2.07	2.12	2.16	2.21	2.26	2.31	2.36	2.41	2.45
7.40	2.50	2.56	2.61	2.67	2.72	2.77	2.83	2.89	2.94	3.00
7.60	3.06	3.13	3.20	3.27	3.34	3.42	3.50	3.58	3.66	3.75
7.80	3.84	3.96	4.07	4.18	4.29	4.42	4.56	4.71	4.85	5.00
8.00	5.17	5.36	5.55	5.74	5.93	6.15	6.40	6.64	6.88	7.12
8.20	7.39	7.67	7.96	8.24	8.53	8.83	9.15	9.47	9.79	10.11
8.40	10.44	10.77	11.10	11.44	11.77	12.09	12.41	12.74	13.06	13.38
8.60	13.68	13.97	14.25	14.54	14.83	15.08	15.30	15.53	15.75	15.97
8.80	16.17	16.35	16.52	16.70	16.88	17.02	17.12	17.22	17.32	17.41
9.00	17.50	17.56	17.62	17.69	17.75	17.78	17.78	17.77	17.77	17.76
9.20	17.74	17.71	17.68	17.65	17.62	17.57	17.49	17.41	17.34	17.26
9.40	17.18	17.09	17.01	16.92	16.83	16.73	16.62	16.51	16.40	16.29
9.60	16.18	16.08	15.98	15.87	15.77	15.66	15.55	15.45	15.34	15.23
9.80	15.13	15.03	14.94	14.84	14.74	14.64	14.54	14.44	14.34	14.24
10.00	14.15	14.06	13.97	13.88	13.80	13.71	13.62	13.53	13.44	13.35
10.20	13.26	13.18	13.10	13.03	12.95	12.87	12.79	12.71	12.63	12.55
10.40	12.48	12.41	12.34	12.28	12.21	12.14	12.07	12.00	11.94	11.87
10.60	11.80	11.75	11.69	11.64	11.58	11.52	11.47	11.41	11.35	11.29
10.80	11.24	11.19	11.15	11.10	11.05	11.01	10.96	10.91	10.86	10.81
11.00	10.76	10.73	10.69	10.65	10.61	10.57	10.53	10.49	10.45	10.41
11.20	10.37	10.34	10.31	10.28	10.25	10.22	10.18	10.15	10.11	10.08
11.40	10.05	10.02	10.00	9.97	9.95	9.92	9.89	9.86	9.83	9.79
11.60	9.77	9.75	9.72	9.70	9.68	9.65	9.63	9.60	9.57	9.54
11.80	9.52	9.49	9.47	9.45	9.43	9.41	9.38	9.35	9.33	9.30
12.00	9.27									

TYPE IA 24-HOUR RAINFALL= 5.50 IN
Prepared by HBH Consulting Engineers, Inc. 9 Jan 06
HydroCAD 5.11 001354 (c) 1986-1999 Applied Microcomputer Systems

SUBCATCHMENT 1 Basin S

PEAK= 123.3 CFS @ 8.06 HRS, VOLUME= 20.63 AF

ACRES	CN	
90.48	85	1/8 Acre Res - Group B Soil
14.61	89	Paved Streets w/ Ditches
30.34	65	Forest/Meadow/Wetlands
4.98	92	Commercial
1.44	85	Gravel Lot
3.80	88	School/Industrial
2.16	61	Park
147.81	81	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	16.1

SUBCATCHMENT 1 RUNOFF PEAK= 123.3 CFS @ 8.06 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	15.5	15.7	15.9	16.1	16.3	16.6	16.8	17.1	17.4	17.7
6.20	18.0	18.3	18.6	18.9	19.2	19.4	19.7	20.0	20.2	20.4
6.40	20.7	20.9	21.1	21.3	21.5	21.7	21.9	22.1	22.3	22.4
6.60	22.5	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.7
6.80	22.7	22.8	23.0	23.1	23.3	23.5	23.7	23.9	24.1	24.4
7.00	24.6	25.0	25.3	25.6	25.9	26.3	26.7	27.1	27.5	27.9
7.20	28.4	28.8	29.3	29.8	30.4	30.9	31.5	32.1	32.7	33.3
7.40	33.9	34.6	35.3	36.0	36.8	37.5	38.4	39.4	40.8	42.7
7.60	45.3	48.8	53.0	58.0	63.3	69.0	74.6	80.2	85.5	90.5
7.80	95.1	99.1	102.9	106.2	109.3	112.0	114.5	116.6	118.5	120.1
8.00	121.4	122.5	123.0	123.3	122.7	121.6	119.6	116.9	113.6	109.8
8.20	106.0	101.9	97.9	94.0	90.4	87.1	83.9	81.1	78.4	75.9
8.40	73.5	71.3	69.2	67.2	65.3	63.5	61.9	60.3	58.9	57.7
8.60	56.7	55.8	55.2	54.7	54.4	54.1	53.8	53.6	53.3	53.1
8.80	52.7	52.3	51.9	51.5	51.0	50.5	50.1	49.6	49.1	48.6
9.00	48.1	47.6	47.1	46.6	46.1	45.6	45.1	44.6	44.1	43.6
9.20	43.1	42.6	42.2	41.7	41.3	40.8	40.4	40.0	39.6	39.2
9.40	38.9	38.5	38.2	37.9	37.6	37.3	37.0	36.7	36.5	36.3
9.60	36.1	36.0	35.9	35.8	35.7	35.7	35.6	35.6	35.5	35.5
9.80	35.4	35.3	35.2	35.1	35.0	34.9	34.8	34.7	34.6	34.4
10.00	34.3	34.2	34.1	33.9	33.8	33.7	33.5	33.4	33.2	33.0
10.20	32.9	32.7	32.6	32.4	32.3	32.1	32.0	31.8	31.7	31.6
10.40	31.5	31.4	31.3	31.2	31.1	31.0	30.9	30.8	30.8	30.7
10.60	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.8	30.7	30.7
10.80	30.7	30.7	30.6	30.6	30.5	30.4	30.4	30.3	30.2	30.1
11.00	30.1	30.0	29.9	29.8	29.7	29.7	29.5	29.5	29.4	29.3
11.20	29.2	29.1	29.0	28.9	28.8	28.7	28.6	28.5	28.5	28.4
11.40	28.3	28.2	28.1	28.0	27.9	27.8	27.7	27.6	27.5	27.4
11.60	27.3	27.2	27.0	26.9	26.8	26.7	26.5	26.4	26.3	26.2
11.80	26.1	26.0	25.9	25.8	25.7	25.7	25.6	25.5	25.5	25.4

SUBCATCHMENT 2 Basin S - Subbasin 1

PEAK= 12.73 CFS @ 7.96 HRS, VOLUME= 2.08 AF

ACRES	CN		
3.09	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
15.45	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
18.54	75		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.1

SUBCATCHMENT 2 RUNOFF PEAK= 12.73 CFS @ 7.96 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.23	1.26	1.28	1.32	1.36	1.39	1.42	1.45	1.48	1.51
6.20	1.53	1.56	1.58	1.60	1.63	1.65	1.67	1.69	1.72	1.74
6.40	1.76	1.78	1.80	1.82	1.84	1.86	1.87	1.87	1.86	1.84
6.60	1.83	1.83	1.83	1.84	1.86	1.87	1.89	1.91	1.94	1.96
6.80	1.99	2.01	2.04	2.07	2.10	2.14	2.17	2.21	2.24	2.28
7.00	2.32	2.37	2.41	2.46	2.50	2.55	2.60	2.66	2.71	2.77
7.20	2.83	2.89	2.95	3.02	3.09	3.16	3.23	3.30	3.38	3.46
7.40	3.54	3.62	3.71	3.80	3.89	3.99	4.21	4.77	5.75	6.87
7.60	7.87	8.64	9.23	9.72	10.13	10.50	10.82	11.12	11.39	11.63
7.80	11.85	12.05	12.22	12.37	12.49	12.59	12.66	12.71	12.73	12.71
8.00	12.67	12.51	12.06	11.27	10.38	9.61	9.04	8.61	8.26	7.97
8.20	7.71	7.49	7.27	7.08	6.89	6.71	6.54	6.38	6.22	6.07
8.40	5.93	5.80	5.67	5.56	5.45	5.34	5.27	5.27	5.35	5.46
8.60	5.54	5.56	5.56	5.53	5.50	5.45	5.40	5.35	5.30	5.24
8.80	5.19	5.13	5.08	5.03	4.97	4.92	4.87	4.82	4.77	4.72
9.00	4.67	4.62	4.57	4.51	4.46	4.41	4.36	4.31	4.27	4.23
9.20	4.19	4.15	4.11	4.08	4.04	4.01	3.98	3.95	3.92	3.89
9.40	3.87	3.84	3.82	3.80	3.78	3.76	3.75	3.75	3.77	3.78
9.60	3.80	3.80	3.80	3.79	3.79	3.78	3.77	3.76	3.74	3.73
9.80	3.72	3.71	3.69	3.68	3.67	3.66	3.64	3.63	3.62	3.60
10.00	3.59	3.58	3.56	3.54	3.51	3.49	3.47	3.46	3.45	3.43
10.20	3.42	3.41	3.40	3.39	3.38	3.37	3.36	3.35	3.34	3.33
10.40	3.33	3.32	3.32	3.31	3.30	3.30	3.30	3.30	3.32	3.34
10.60	3.35	3.36	3.36	3.36	3.35	3.34	3.34	3.33	3.32	3.31
10.80	3.30	3.29	3.28	3.28	3.27	3.26	3.25	3.24	3.23	3.22
11.00	3.21	3.20	3.19	3.18	3.17	3.16	3.16	3.15	3.14	3.13
11.20	3.12	3.11	3.10	3.09	3.08	3.07	3.06	3.05	3.04	3.03
11.40	3.02	3.01	3.00	2.99	2.98	2.97	2.96	2.94	2.92	2.90
11.60	2.88	2.87	2.86	2.85	2.84	2.83	2.82	2.82	2.81	2.80
11.80	2.80	2.79	2.79	2.79	2.78	2.78	2.78	2.77	2.77	2.77
12.00	2.77									

SUBCATCHMENT 3 Basin T

PEAK= 47.62 CFS @ 8.03 HRS, VOLUME= 8.07 AF

ACRES	CN		
7.72	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
47.79	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
50.14	58	Forest	RAINFALL= 5.50 IN
105.65	67		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	11.1

SUBCATCHMENT 3 RUNOFF PEAK= 47.62 CFS @ 8.03 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.23	1.31	1.39	1.47	1.56	1.65	1.75	1.85	1.95	2.05
6.20	2.15	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05
6.40	3.15	3.25	3.35	3.44	3.54	3.64	3.73	3.82	3.90	3.97
6.60	4.02	4.07	4.11	4.16	4.20	4.26	4.32	4.40	4.47	4.56
6.80	4.64	4.73	4.83	4.93	5.04	5.15	5.26	5.38	5.50	5.63
7.00	5.77	5.91	6.05	6.20	6.36	6.52	6.69	6.86	7.05	7.23
7.20	7.43	7.63	7.84	8.06	8.29	8.52	8.76	9.01	9.27	9.54
7.40	9.82	10.10	10.40	10.71	11.02	11.35	11.73	12.30	13.21	14.63
7.60	16.58	18.90	21.40	23.91	26.33	28.57	30.58	32.42	34.13	35.73
7.80	37.24	38.64	39.95	41.17	42.30	43.35	44.31	45.16	45.91	46.57
8.00	47.12	47.51	47.61	47.29	46.43	45.07	43.34	41.44	39.53	37.74
8.20	36.14	34.77	33.55	32.45	31.45	30.52	29.67	28.87	28.11	27.39
8.40	26.72	26.08	25.48	24.90	24.36	23.84	23.38	22.99	22.71	22.55
8.60	22.52	22.59	22.70	22.81	22.88	22.89	22.86	22.78	22.67	22.53
8.80	22.38	22.22	22.05	21.87	21.69	21.50	21.30	21.11	20.93	20.74
9.00	20.54	20.35	20.16	19.97	19.77	19.57	19.36	19.16	18.96	18.78
9.20	18.59	18.42	18.25	18.09	17.94	17.79	17.64	17.50	17.37	17.25
9.40	17.13	17.01	16.90	16.79	16.69	16.60	16.52	16.44	16.39	16.37
9.60	16.38	16.40	16.42	16.45	16.46	16.47	16.46	16.45	16.42	16.39
9.80	16.37	16.33	16.29	16.25	16.21	16.17	16.13	16.09	16.04	15.99
10.00	15.95	15.90	15.85	15.79	15.73	15.66	15.59	15.52	15.45	15.38
10.20	15.31	15.26	15.21	15.16	15.11	15.06	15.02	14.99	14.95	14.91
10.40	14.88	14.85	14.82	14.79	14.77	14.74	14.72	14.71	14.71	14.73
10.60	14.76	14.80	14.84	14.88	14.90	14.92	14.92	14.91	14.90	14.89
10.80	14.86	14.84	14.81	14.79	14.76	14.73	14.69	14.66	14.63	14.60
11.00	14.56	14.52	14.49	14.45	14.42	14.38	14.35	14.31	14.27	14.24
11.20	14.20	14.16	14.12	14.09	14.05	14.01	13.97	13.93	13.89	13.86
11.40	13.82	13.78	13.74	13.70	13.66	13.62	13.58	13.54	13.48	13.43
11.60	13.36	13.30	13.23	13.17	13.11	13.06	13.01	12.97	12.93	12.89
11.80	12.86	12.83	12.81	12.78	12.76	12.74	12.72	12.71	12.70	12.68
12.00	12.67									

SUBCATCHMENT 4 Basin U

PEAK= 16.29 CFS @ 8.08 HRS, VOLUME= 2.92 AF

ACRES	CN		
1.62	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
10.00	68	1 Acre Res - Group B Soil	TYPE IA 24-HOUR
44.61	58	Forest	RAINFALL= 5.50 IN
56.23	61		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.6

SUBCATCHMENT 4 RUNOFF PEAK= 16.29 CFS @ 8.08 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.01	.02	.03
6.60	.05	.07	.09	.11	.14	.17	.20	.23	.27	.30
6.80	.34	.37	.41	.45	.49	.53	.57	.61	.65	.70
7.00	.74	.79	.84	.89	.94	.99	1.05	1.11	1.16	1.22
7.20	1.29	1.35	1.42	1.49	1.57	1.64	1.72	1.80	1.89	1.98
7.40	2.07	2.16	2.26	2.36	2.47	2.58	2.70	2.85	3.05	3.34
7.60	3.73	4.23	4.82	5.48	6.18	6.90	7.62	8.33	9.01	9.67
7.80	10.31	10.92	11.52	12.10	12.66	13.20	13.71	14.19	14.64	15.07
8.00	15.45	15.80	16.07	16.23	16.29	16.18	15.91	15.55	15.09	14.60
8.20	14.10	13.62	13.16	12.75	12.38	12.04	11.72	11.42	11.14	10.87
8.40	10.62	10.37	10.15	9.92	9.71	9.52	9.33	9.16	9.03	8.92
8.60	8.85	8.83	8.82	8.84	8.86	8.88	8.89	8.90	8.88	8.86
8.80	8.83	8.78	8.74	8.69	8.63	8.57	8.52	8.45	8.39	8.33
9.00	8.26	8.20	8.14	8.07	8.00	7.93	7.86	7.79	7.72	7.65
9.20	7.58	7.52	7.45	7.39	7.33	7.27	7.21	7.16	7.11	7.06
9.40	7.01	6.96	6.92	6.88	6.84	6.81	6.77	6.74	6.72	6.70
9.60	6.69	6.69	6.69	6.70	6.71	6.71	6.72	6.72	6.72	6.72
9.80	6.71	6.71	6.69	6.69	6.68	6.66	6.65	6.64	6.62	6.61
10.00	6.60	6.58	6.57	6.55	6.53	6.51	6.49	6.46	6.44	6.41
10.20	6.39	6.37	6.35	6.33	6.31	6.29	6.28	6.26	6.25	6.23
10.40	6.22	6.21	6.20	6.19	6.18	6.17	6.17	6.16	6.16	6.16
10.60	6.16	6.18	6.19	6.20	6.22	6.23	6.24	6.25	6.25	6.25
10.80	6.25	6.25	6.24	6.23	6.23	6.21	6.21	6.20	6.18	6.18
11.00	6.17	6.15	6.14	6.13	6.12	6.11	6.09	6.08	6.07	6.05
11.20	6.04	6.03	6.01	6.00	5.99	5.97	5.96	5.95	5.93	5.92
11.40	5.90	5.89	5.87	5.86	5.84	5.83	5.82	5.80	5.78	5.76
11.60	5.74	5.72	5.70	5.67	5.65	5.63	5.60	5.58	5.57	5.55
11.80	5.53	5.52	5.51	5.50	5.49	5.48	5.47	5.47	5.46	5.45
12.00	5.45									

TYPE IA 24-HOUR RAINFALL= 6.00 IN
Prepared by HBH Consulting Engineers, Inc. 6 Dec 05
HydroCAD 5.11 001354 (c) 1986-1999 Applied Microcomputer Systems

SUBCATCHMENT 1 Basin A

PEAK= 8.79 CFS @ 8.01 HRS, VOLUME= 1.45 AF

ACRES	CN		
2.36	98	Paved Streets	SCS TR-20 METHOD
7.99	70	0.20 Acre Res - Group A Soil	TYPE IA 24-HOUR
1.19	49	Vacant Lots (Open Space - Fair)	RAINFALL= 6.00 IN
11.54	74		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.0

SUBCATCHMENT 1 RUNOFF PEAK= 8.79 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.85	.87	.88	.90	.92	.94	.96	.99	1.01	1.03
6.20	1.05	1.07	1.09	1.10	1.12	1.14	1.15	1.17	1.19	1.20
6.40	1.22	1.23	1.25	1.26	1.28	1.29	1.30	1.31	1.32	1.32
6.60	1.32	1.32	1.31	1.31	1.31	1.32	1.33	1.34	1.35	1.36
6.80	1.37	1.39	1.40	1.42	1.44	1.46	1.48	1.50	1.52	1.55
7.00	1.57	1.60	1.63	1.65	1.68	1.72	1.75	1.78	1.82	1.85
7.20	1.89	1.93	1.97	2.01	2.05	2.10	2.14	2.19	2.24	2.29
7.40	2.34	2.39	2.45	2.51	2.56	2.63	2.71	2.84	3.08	3.44
7.60	3.91	4.44	4.97	5.47	5.92	6.31	6.64	6.94	7.21	7.45
7.80	7.67	7.87	8.04	8.20	8.34	8.46	8.56	8.65	8.71	8.76
8.00	8.79	8.79	8.73	8.57	8.30	7.94	7.53	7.12	6.74	6.41
8.20	6.13	5.89	5.68	5.48	5.30	5.14	4.99	4.85	4.71	4.59
8.40	4.47	4.36	4.25	4.15	4.05	3.97	3.89	3.82	3.78	3.77
8.60	3.78	3.80	3.82	3.83	3.83	3.82	3.81	3.78	3.76	3.73
8.80	3.69	3.66	3.63	3.59	3.55	3.52	3.48	3.45	3.41	3.38
9.00	3.34	3.31	3.27	3.24	3.20	3.16	3.13	3.09	3.06	3.02
9.20	2.99	2.96	2.93	2.91	2.88	2.85	2.83	2.80	2.78	2.76
9.40	2.74	2.72	2.70	2.68	2.66	2.65	2.63	2.62	2.62	2.61
9.60	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.61	2.61	2.60
9.80	2.59	2.59	2.58	2.57	2.56	2.55	2.54	2.54	2.53	2.52
10.00	2.51	2.50	2.49	2.48	2.47	2.45	2.44	2.43	2.42	2.40
10.20	2.39	2.38	2.37	2.37	2.36	2.35	2.34	2.34	2.33	2.32
10.40	2.32	2.31	2.31	2.30	2.30	2.29	2.29	2.28	2.29	2.29
10.60	2.29	2.30	2.31	2.31	2.31	2.31	2.31	2.31	2.30	2.30
10.80	2.30	2.29	2.28	2.28	2.27	2.27	2.26	2.25	2.25	2.24
11.00	2.24	2.23	2.22	2.22	2.21	2.20	2.20	2.19	2.18	2.18
11.20	2.17	2.16	2.16	2.15	2.14	2.14	2.13	2.12	2.12	2.11
11.40	2.10	2.10	2.09	2.08	2.08	2.07	2.06	2.05	2.05	2.04
11.60	2.02	2.01	2.00	1.99	1.98	1.98	1.97	1.96	1.96	1.95
11.80	1.94	1.94	1.94	1.93	1.93	1.92	1.92	1.92	1.92	1.92
12.00	1.91									

SUBCATCHMENT 2 Basin B

PEAK= 36.52 CFS @ 8.01 HRS, VOLUME= 5.97 AF

ACRES	CN		
5.80	98	Paved Streets	SCS TR-20 METHOD
32.84	77	1/8 Acre Res - Group A Soil	TYPE IA 24-HOUR
38.64	80		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	11.8

SUBCATCHMENT 2 RUNOFF PEAK= 36.52 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	4.73	4.79	4.86	4.93	5.01	5.09	5.18	5.28	5.37	5.47
6.20	5.56	5.64	5.72	5.80	5.87	5.95	6.01	6.08	6.14	6.21
6.40	6.27	6.33	6.38	6.44	6.50	6.55	6.59	6.64	6.67	6.68
6.60	6.67	6.65	6.63	6.61	6.59	6.58	6.59	6.60	6.63	6.66
6.80	6.71	6.75	6.81	6.87	6.93	7.01	7.08	7.16	7.25	7.34
7.00	7.44	7.54	7.64	7.76	7.87	7.99	8.12	8.25	8.39	8.53
7.20	8.68	8.83	8.99	9.16	9.33	9.51	9.69	9.88	10.07	10.27
7.40	10.48	10.69	10.91	11.14	11.37	11.61	11.88	12.30	12.98	14.06
7.60	15.59	17.47	19.51	21.59	23.57	25.40	27.01	28.40	29.63	30.71
7.80	31.69	32.56	33.33	34.01	34.60	35.12	35.55	35.89	36.16	36.37
8.00	36.49	36.50	36.33	35.93	35.19	34.08	32.69	31.20	29.68	28.21
8.20	26.84	25.65	24.61	23.67	22.82	22.03	21.31	20.64	20.00	19.41
8.40	18.86	18.34	17.85	17.38	16.94	16.54	16.15	15.82	15.55	15.38
8.60	15.28	15.25	15.26	15.28	15.29	15.28	15.23	15.16	15.06	14.94
8.80	14.82	14.69	14.55	14.41	14.26	14.12	13.97	13.82	13.67	13.52
9.00	13.38	13.24	13.09	12.94	12.80	12.65	12.50	12.35	12.21	12.07
9.20	11.93	11.80	11.68	11.56	11.44	11.33	11.22	11.12	11.02	10.92
9.40	10.83	10.75	10.66	10.58	10.50	10.43	10.37	10.31	10.26	10.23
9.60	10.21	10.21	10.21	10.21	10.21	10.20	10.19	10.17	10.15	10.12
9.80	10.09	10.06	10.04	10.00	9.97	9.93	9.90	9.86	9.82	9.79
10.00	9.75	9.72	9.67	9.63	9.59	9.54	9.49	9.44	9.39	9.34
10.20	9.29	9.25	9.20	9.17	9.13	9.09	9.06	9.03	9.00	8.97
10.40	8.94	8.92	8.89	8.87	8.84	8.82	8.81	8.79	8.78	8.78
10.60	8.79	8.80	8.82	8.83	8.84	8.85	8.85	8.84	8.83	8.81
10.80	8.80	8.77	8.76	8.74	8.71	8.69	8.66	8.64	8.61	8.59
11.00	8.56	8.54	8.51	8.48	8.46	8.43	8.41	8.38	8.35	8.33
11.20	8.30	8.27	8.24	8.22	8.19	8.17	8.14	8.11	8.08	8.06
11.40	8.03	8.00	7.98	7.95	7.92	7.89	7.86	7.84	7.80	7.76
11.60	7.73	7.69	7.64	7.60	7.57	7.53	7.50	7.47	7.44	7.42
11.80	7.39	7.37	7.35	7.33	7.32	7.30	7.28	7.27	7.26	7.25
12.00	7.24									

SUBCATCHMENT 3 Basin C

PEAK= 18.98 CFS @ 7.98 HRS, VOLUME= 3.07 AF

ACRES	CN		
1.68	98	Paved Streets	SCS TR-20 METHOD
13.90	83	1/4 Acre Res & Industrial	TYPE IA 24-HOUR
1.56	94	Commercial	RAINFALL= 6.00 IN
17.14	85		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.7

SUBCATCHMENT 3 RUNOFF PEAK= 18.98 CFS @ 7.98 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.97	3.01	3.04	3.08	3.12	3.17	3.23	3.28	3.33	3.38
6.20	3.43	3.47	3.51	3.55	3.58	3.62	3.65	3.68	3.71	3.74
6.40	3.77	3.80	3.82	3.85	3.87	3.89	3.91	3.93	3.93	3.93
6.60	3.91	3.88	3.86	3.84	3.82	3.82	3.82	3.83	3.84	3.86
6.80	3.88	3.91	3.93	3.96	4.00	4.04	4.08	4.12	4.17	4.21
7.00	4.27	4.32	4.38	4.44	4.50	4.56	4.63	4.70	4.77	4.85
7.20	4.93	5.01	5.09	5.18	5.27	5.37	5.46	5.56	5.66	5.77
7.40	5.88	5.99	6.10	6.22	6.34	6.47	6.63	6.91	7.37	8.09
7.60	9.07	10.19	11.36	12.50	13.52	14.41	15.15	15.80	16.36	16.85
7.80	17.27	17.64	17.96	18.23	18.46	18.64	18.79	18.89	18.95	18.98
8.00	18.96	18.89	18.70	18.36	17.81	17.08	16.25	15.38	14.55	13.79
8.20	13.12	12.54	12.04	11.58	11.17	10.79	10.43	10.11	9.80	9.51
8.40	9.24	8.99	8.75	8.52	8.31	8.11	7.93	7.78	7.66	7.60
8.60	7.58	7.59	7.61	7.63	7.63	7.61	7.57	7.52	7.47	7.40
8.80	7.33	7.26	7.18	7.11	7.03	6.95	6.88	6.80	6.72	6.65
9.00	6.57	6.50	6.42	6.35	6.27	6.19	6.12	6.04	5.97	5.90
9.20	5.83	5.77	5.71	5.65	5.59	5.54	5.48	5.43	5.38	5.34
9.40	5.29	5.25	5.21	5.17	5.13	5.10	5.06	5.04	5.02	5.01
9.60	5.00	5.00	5.00	5.01	5.00	5.00	4.99	4.98	4.96	4.95
9.80	4.93	4.92	4.90	4.88	4.86	4.84	4.82	4.81	4.79	4.77
10.00	4.75	4.73	4.71	4.69	4.66	4.63	4.61	4.58	4.56	4.53
10.20	4.51	4.49	4.47	4.45	4.43	4.41	4.40	4.38	4.37	4.35
10.40	4.34	4.33	4.31	4.30	4.29	4.28	4.27	4.26	4.26	4.26
10.60	4.27	4.28	4.28	4.29	4.29	4.29	4.29	4.28	4.28	4.27
10.80	4.26	4.25	4.23	4.22	4.21	4.20	4.18	4.17	4.16	4.15
11.00	4.13	4.12	4.11	4.09	4.08	4.07	4.05	4.04	4.02	4.01
11.20	4.00	3.98	3.97	3.96	3.94	3.93	3.92	3.90	3.89	3.87
11.40	3.86	3.85	3.83	3.82	3.81	3.79	3.78	3.76	3.75	3.73
11.60	3.71	3.68	3.66	3.64	3.63	3.61	3.59	3.58	3.57	3.56
11.80	3.55	3.54	3.53	3.52	3.51	3.50	3.50	3.49	3.48	3.48
12.00	3.47									

SUBCATCHMENT 4 Basin D

PEAK= 40.17 CFS @ 8.02 HRS, VOLUME= 6.59 AF

ACRES	CN		
7.50	98	Paved Streets	SCS TR-20 METHOD
33.89	77	1/8 Acre Res - Group A Soil	TYPE IA 24-HOUR
41.39	81		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.1

SUBCATCHMENT 4 RUNOFF PEAK= 40.17 CFS @ 8.02 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	5.40	5.46	5.53	5.60	5.68	5.77	5.87	5.97	6.07	6.18
6.20	6.28	6.37	6.47	6.55	6.64	6.72	6.80	6.87	6.95	7.02
6.40	7.09	7.15	7.22	7.28	7.34	7.40	7.45	7.50	7.54	7.56
6.60	7.57	7.56	7.54	7.52	7.50	7.49	7.48	7.49	7.51	7.53
6.80	7.57	7.62	7.67	7.72	7.79	7.86	7.94	8.02	8.11	8.20
7.00	8.31	8.41	8.52	8.64	8.77	8.89	9.02	9.17	9.31	9.46
7.20	9.62	9.79	9.96	10.13	10.32	10.50	10.70	10.91	11.11	11.33
7.40	11.55	11.78	12.01	12.26	12.51	12.76	13.07	13.49	14.13	15.08
7.60	16.41	18.12	20.08	22.18	24.29	26.33	28.23	29.94	31.43	32.77
7.80	33.96	35.01	35.97	36.81	37.54	38.20	38.76	39.21	39.59	39.89
8.00	40.07	40.16	40.11	39.80	39.21	38.32	37.09	35.64	34.13	32.57
8.20	31.06	29.67	28.39	27.25	26.23	25.31	24.43	23.62	22.88	22.16
8.40	21.50	20.89	20.30	19.74	19.23	18.74	18.28	17.87	17.52	17.24
8.60	17.06	16.96	16.90	16.88	16.87	16.84	16.80	16.74	16.64	16.52
8.80	16.40	16.26	16.11	15.97	15.81	15.65	15.49	15.33	15.16	15.00
9.00	14.84	14.68	14.52	14.36	14.20	14.03	13.87	13.71	13.55	13.39
9.20	13.24	13.09	12.95	12.81	12.68	12.55	12.43	12.31	12.19	12.09
9.40	11.98	11.88	11.79	11.69	11.60	11.52	11.44	11.37	11.31	11.26
9.60	11.23	11.21	11.20	11.19	11.18	11.18	11.17	11.15	11.13	11.11
9.80	11.07	11.05	11.01	10.97	10.94	10.91	10.86	10.83	10.79	10.75
10.00	10.70	10.67	10.62	10.58	10.53	10.48	10.42	10.37	10.32	10.26
10.20	10.21	10.16	10.11	10.07	10.03	9.98	9.95	9.91	9.87	9.84
10.40	9.81	9.78	9.75	9.72	9.70	9.67	9.65	9.63	9.61	9.60
10.60	9.61	9.61	9.63	9.64	9.65	9.65	9.66	9.66	9.64	9.64
10.80	9.62	9.60	9.58	9.56	9.53	9.51	9.48	9.45	9.43	9.40
11.00	9.37	9.34	9.32	9.29	9.26	9.23	9.20	9.17	9.15	9.12
11.20	9.08	9.06	9.03	9.00	8.97	8.94	8.91	8.88	8.85	8.82
11.40	8.79	8.76	8.73	8.70	8.67	8.64	8.61	8.58	8.55	8.51
11.60	8.47	8.43	8.38	8.33	8.29	8.25	8.21	8.18	8.15	8.12
11.80	8.09	8.07	8.04	8.02	8.00	7.98	7.96	7.95	7.93	7.92
12.00	7.91									

SUBCATCHMENT 5 Basin E

PEAK= 29.39 CFS @ 8.00 HRS, VOLUME= 4.79 AF

ACRES	CN		
3.36	98	Paved Streets	
28.65	77	1/8 Acre Res - Group A Soil	
32.01	79		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.4

SUBCATCHMENT 5 RUNOFF PEAK= 29.39 CFS @ 8.00 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.68	3.73	3.79	3.85	3.91	3.99	4.07	4.14	4.22	4.29
6.20	4.36	4.43	4.49	4.55	4.61	4.66	4.71	4.77	4.82	4.87
6.40	4.91	4.96	5.01	5.05	5.09	5.13	5.17	5.20	5.22	5.22
6.60	5.20	5.18	5.15	5.14	5.13	5.13	5.15	5.17	5.20	5.23
6.80	5.27	5.32	5.37	5.42	5.48	5.54	5.61	5.68	5.75	5.83
7.00	5.91	5.99	6.08	6.18	6.28	6.38	6.48	6.59	6.71	6.83
7.20	6.95	7.08	7.21	7.35	7.49	7.64	7.79	7.94	8.11	8.27
7.40	8.44	8.62	8.80	8.99	9.18	9.38	9.64	10.08	10.82	11.97
7.60	13.50	15.25	17.05	18.77	20.32	21.66	22.80	23.80	24.68	25.47
7.80	26.16	26.78	27.33	27.81	28.22	28.57	28.85	29.08	29.24	29.35
8.00	29.39	29.33	29.09	28.58	27.71	26.55	25.23	23.88	22.60	21.45
8.20	20.46	19.61	18.85	18.17	17.56	16.99	16.46	15.96	15.50	15.07
8.40	14.66	14.27	13.91	13.56	13.24	12.93	12.66	12.43	12.27	12.19
8.60	12.19	12.23	12.28	12.32	12.32	12.30	12.24	12.16	12.08	11.97
8.80	11.87	11.75	11.64	11.52	11.40	11.28	11.16	11.04	10.92	10.80
9.00	10.68	10.57	10.45	10.34	10.22	10.09	9.97	9.86	9.74	9.63
9.20	9.53	9.43	9.33	9.24	9.15	9.06	8.98	8.90	8.83	8.75
9.40	8.68	8.61	8.55	8.49	8.43	8.38	8.33	8.29	8.26	8.24
9.60	8.25	8.25	8.26	8.27	8.26	8.26	8.24	8.22	8.20	8.18
9.80	8.16	8.13	8.10	8.08	8.05	8.02	7.99	7.96	7.93	7.90
10.00	7.87	7.84	7.81	7.77	7.74	7.69	7.65	7.61	7.57	7.53
10.20	7.49	7.46	7.43	7.40	7.37	7.34	7.32	7.30	7.27	7.25
10.40	7.23	7.21	7.19	7.17	7.16	7.14	7.13	7.12	7.12	7.12
10.60	7.14	7.15	7.17	7.18	7.19	7.19	7.18	7.17	7.16	7.14
10.80	7.13	7.11	7.09	7.08	7.06	7.04	7.02	7.00	6.98	6.96
11.00	6.93	6.91	6.89	6.87	6.85	6.83	6.81	6.79	6.76	6.74
11.20	6.72	6.70	6.68	6.66	6.63	6.61	6.59	6.57	6.55	6.52
11.40	6.50	6.48	6.46	6.44	6.41	6.39	6.37	6.34	6.32	6.28
11.60	6.25	6.21	6.18	6.15	6.12	6.09	6.07	6.05	6.03	6.01
11.80	5.99	5.97	5.96	5.95	5.93	5.92	5.91	5.90	5.89	5.89
12.00	5.88									

SUBCATCHMENT 6 Basin F

PEAK= 17.57 CFS @ 7.92 HRS, VOLUME= 2.80 AF

ACRES	CN		
3.02	98	Paved Streets	SCS TR-20 METHOD
4.93	80	1/2 Acre Res - Group C Soil	TYPE IA 24-HOUR
5.91	94	Commercial - Group C Soil	RAINFALL= 6.00 IN
13.86	90		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	7.9

SUBCATCHMENT 6 RUNOFF PEAK= 17.57 CFS @ 7.92 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.24	3.27	3.31	3.36	3.41	3.47	3.53	3.58	3.62	3.66
6.20	3.70	3.73	3.76	3.79	3.81	3.84	3.86	3.89	3.91	3.93
6.40	3.95	3.97	3.99	4.01	4.02	4.04	4.05	4.04	4.02	3.98
6.60	3.93	3.89	3.86	3.85	3.84	3.85	3.86	3.87	3.89	3.91
6.80	3.94	3.97	4.00	4.03	4.07	4.11	4.15	4.19	4.24	4.29
7.00	4.34	4.39	4.45	4.51	4.57	4.63	4.70	4.77	4.84	4.92
7.20	4.99	5.07	5.16	5.24	5.33	5.42	5.51	5.61	5.71	5.81
7.40	5.91	6.02	6.13	6.24	6.36	6.48	6.68	7.14	8.04	9.31
7.60	10.71	12.04	13.15	14.01	14.70	15.27	15.73	16.13	16.46	16.74
7.80	16.97	17.17	17.32	17.43	17.51	17.56	17.57	17.55	17.49	17.40
8.00	17.27	17.06	16.65	15.96	15.02	14.01	13.05	12.24	11.59	11.05
8.20	10.59	10.19	9.82	9.50	9.19	8.91	8.64	8.39	8.16	7.93
8.40	7.72	7.52	7.33	7.16	6.99	6.84	6.71	6.62	6.61	6.65
8.60	6.71	6.77	6.79	6.78	6.75	6.70	6.64	6.57	6.50	6.43
8.80	6.36	6.29	6.21	6.14	6.07	6.00	5.92	5.85	5.79	5.72
9.00	5.65	5.58	5.51	5.45	5.38	5.31	5.24	5.17	5.11	5.06
9.20	5.00	4.95	4.90	4.85	4.80	4.75	4.71	4.67	4.63	4.59
9.40	4.55	4.52	4.48	4.45	4.42	4.40	4.37	4.36	4.35	4.36
9.60	4.37	4.38	4.38	4.37	4.36	4.35	4.34	4.32	4.31	4.29
9.80	4.27	4.26	4.24	4.22	4.21	4.19	4.17	4.15	4.13	4.12
10.00	4.10	4.08	4.06	4.04	4.01	3.98	3.96	3.94	3.91	3.89
10.20	3.88	3.86	3.84	3.83	3.81	3.80	3.79	3.77	3.76	3.75
10.40	3.74	3.73	3.72	3.71	3.70	3.69	3.68	3.68	3.69	3.70
10.60	3.71	3.72	3.73	3.73	3.72	3.71	3.71	3.70	3.69	3.68
10.80	3.66	3.65	3.64	3.63	3.62	3.61	3.59	3.58	3.57	3.56
11.00	3.55	3.53	3.52	3.51	3.50	3.48	3.47	3.46	3.45	3.44
11.20	3.42	3.41	3.40	3.39	3.37	3.36	3.35	3.34	3.33	3.31
11.40	3.30	3.29	3.28	3.26	3.25	3.24	3.23	3.21	3.19	3.17
11.60	3.15	3.13	3.11	3.10	3.09	3.07	3.06	3.05	3.04	3.04
11.80	3.03	3.02	3.01	3.01	3.00	3.00	2.99	2.99	2.98	2.98
12.00	2.98									

SUBCATCHMENT 7 Basin G - Subbasin 1

PEAK= 68.12 CFS @ 7.97 HRS, VOLUME= 10.98 AF

ACRES	CN		
8.51	98	Paved Streets	
23.00	85	1/8 Acre Res - Group B Soil	
2.74	77	Brush/Forest - Group C Soil	
21.23	90	1/8 Acre Res - Group C Soil	
55.48	89		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.9

SUBCATCHMENT 7 RUNOFF PEAK= 68.12 CFS @ 7.97 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	12.08	12.19	12.32	12.46	12.62	12.80	12.99	13.18	13.38	13.56
6.20	13.72	13.88	14.02	14.15	14.28	14.40	14.51	14.61	14.71	14.81
6.40	14.91	15.00	15.08	15.16	15.23	15.30	15.37	15.41	15.41	15.37
6.60	15.29	15.19	15.08	14.98	14.90	14.86	14.85	14.86	14.89	14.94
6.80	15.00	15.08	15.18	15.28	15.40	15.52	15.66	15.81	15.97	16.14
7.00	16.32	16.50	16.70	16.91	17.13	17.36	17.60	17.84	18.10	18.37
7.20	18.65	18.94	19.24	19.55	19.86	20.20	20.54	20.89	21.25	21.62
7.40	22.01	22.41	22.81	23.23	23.66	24.10	24.68	25.62	27.24	29.76
7.60	33.20	37.23	41.44	45.54	49.28	52.52	55.22	57.52	59.51	61.23
7.80	62.71	63.97	65.04	65.93	66.68	67.26	67.69	67.97	68.10	68.11
8.00	67.98	67.64	66.93	65.68	63.72	61.15	58.18	55.09	52.07	49.29
8.20	46.86	44.75	42.90	41.23	39.71	38.31	37.02	35.83	34.72	33.67
8.40	32.69	31.76	30.89	30.08	29.31	28.59	27.92	27.35	26.92	26.67
8.60	26.58	26.60	26.65	26.69	26.69	26.63	26.49	26.31	26.09	25.86
8.80	25.62	25.36	25.09	24.81	24.53	24.26	23.99	23.71	23.44	23.16
9.00	22.89	22.63	22.36	22.10	21.83	21.55	21.28	21.02	20.77	20.52
9.20	20.27	20.04	19.82	19.62	19.41	19.22	19.02	18.84	18.67	18.50
9.40	18.34	18.19	18.04	17.90	17.77	17.64	17.53	17.42	17.35	17.30
9.60	17.28	17.28	17.28	17.28	17.27	17.25	17.22	17.18	17.13	17.07
9.80	17.01	16.95	16.89	16.83	16.76	16.69	16.63	16.56	16.49	16.42
10.00	16.35	16.28	16.21	16.13	16.05	15.96	15.86	15.77	15.68	15.59
10.20	15.51	15.43	15.36	15.29	15.23	15.17	15.11	15.05	15.00	14.94
10.40	14.90	14.85	14.81	14.76	14.72	14.68	14.65	14.62	14.61	14.61
10.60	14.63	14.65	14.68	14.70	14.71	14.71	14.69	14.67	14.64	14.61
10.80	14.58	14.54	14.49	14.45	14.41	14.37	14.32	14.27	14.23	14.18
11.00	14.14	14.09	14.04	13.99	13.95	13.90	13.85	13.81	13.76	13.71
11.20	13.66	13.61	13.57	13.52	13.47	13.42	13.37	13.33	13.28	13.23
11.40	13.18	13.13	13.09	13.04	12.99	12.94	12.89	12.84	12.78	12.71
11.60	12.64	12.57	12.50	12.43	12.37	12.31	12.25	12.20	12.16	12.12
11.80	12.08	12.05	12.01	11.98	11.95	11.93	11.90	11.88	11.86	11.84
12.00	11.83									

SUBCATCHMENT 8 Basin G - Subbasin 2

PEAK= 14.02 CFS @ 7.94 HRS, VOLUME= 2.25 AF

ACRES	CN		
1.84	98	Paved Streets	SCS TR-20 METHOD
9.03	90	1/8 Acre Res - Group C Soil	TYPE IA 24-HOUR
10.87	91		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	9.7

SUBCATCHMENT 8 RUNOFF PEAK= 14.02 CFS @ 7.94 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.64	2.67	2.69	2.72	2.76	2.80	2.84	2.88	2.92	2.96
6.20	2.99	3.02	3.05	3.07	3.10	3.12	3.14	3.16	3.18	3.20
6.40	3.21	3.23	3.24	3.26	3.27	3.28	3.29	3.30	3.29	3.27
6.60	3.25	3.22	3.19	3.17	3.15	3.15	3.15	3.15	3.16	3.17
6.80	3.19	3.21	3.23	3.25	3.28	3.30	3.33	3.37	3.40	3.44
7.00	3.47	3.51	3.56	3.60	3.65	3.70	3.75	3.80	3.85	3.91
7.20	3.97	4.03	4.09	4.16	4.22	4.29	4.36	4.44	4.51	4.59
7.40	4.67	4.75	4.84	4.93	5.02	5.11	5.23	5.46	5.89	6.58
7.60	7.47	8.43	9.36	10.21	10.92	11.49	11.97	12.37	12.71	13.01
7.80	13.25	13.46	13.63	13.77	13.87	13.95	14.00	14.02	14.01	13.97
8.00	13.91	13.79	13.59	13.24	12.71	12.06	11.36	10.68	10.06	9.53
8.20	9.08	8.69	8.35	8.04	7.75	7.49	7.25	7.03	6.81	6.62
8.40	6.43	6.25	6.09	5.93	5.78	5.65	5.52	5.42	5.36	5.34
8.60	5.35	5.37	5.39	5.40	5.39	5.37	5.33	5.29	5.24	5.19
8.80	5.13	5.08	5.02	4.96	4.91	4.85	4.79	4.74	4.68	4.62
9.00	4.57	4.52	4.46	4.41	4.35	4.30	4.24	4.19	4.14	4.09
9.20	4.04	4.00	3.95	3.91	3.87	3.83	3.80	3.76	3.73	3.69
9.40	3.66	3.63	3.60	3.58	3.55	3.53	3.50	3.49	3.47	3.47
9.60	3.47	3.47	3.48	3.48	3.47	3.47	3.46	3.45	3.44	3.42
9.80	3.41	3.40	3.38	3.37	3.36	3.34	3.33	3.32	3.30	3.29
10.00	3.27	3.26	3.24	3.23	3.21	3.19	3.17	3.15	3.13	3.11
10.20	3.10	3.08	3.07	3.06	3.04	3.03	3.02	3.01	3.00	2.99
10.40	2.98	2.97	2.96	2.95	2.95	2.94	2.93	2.93	2.93	2.93
10.60	2.94	2.94	2.95	2.95	2.95	2.95	2.94	2.94	2.93	2.92
10.80	2.92	2.91	2.90	2.89	2.88	2.87	2.86	2.85	2.84	2.83
11.00	2.82	2.81	2.80	2.79	2.79	2.78	2.77	2.76	2.75	2.74
11.20	2.73	2.72	2.71	2.70	2.69	2.68	2.67	2.66	2.65	2.64
11.40	2.63	2.62	2.61	2.60	2.59	2.58	2.57	2.56	2.55	2.53
11.60	2.52	2.50	2.49	2.47	2.46	2.45	2.44	2.43	2.42	2.42
11.80	2.41	2.40	2.40	2.39	2.38	2.38	2.37	2.37	2.37	2.36
12.00	2.36									

SUBCATCHMENT 9 Basin G - Subbasin 3

PEAK= 25.21 CFS @ 7.91 HRS, VOLUME= 4.03 AF

ACRES	CN		
3.33	98	Paved Streets	SCS TR-20 METHOD
18.01	85	1/8 Acre Res - Group B Soil	TYPE IA 24-HOUR
21.34	87		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.6

SUBCATCHMENT 9 RUNOFF PEAK= 25.21 CFS @ 7.91 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	4.29	4.34	4.40	4.48	4.57	4.66	4.73	4.79	4.85	4.90
6.20	4.95	4.99	5.04	5.08	5.12	5.15	5.19	5.22	5.26	5.29
6.40	5.32	5.35	5.37	5.40	5.42	5.45	5.46	5.44	5.39	5.31
6.60	5.25	5.21	5.19	5.19	5.20	5.22	5.24	5.27	5.31	5.35
6.80	5.39	5.44	5.49	5.54	5.60	5.66	5.72	5.79	5.86	5.93
7.00	6.01	6.09	6.18	6.27	6.36	6.46	6.56	6.66	6.77	6.88
7.20	6.99	7.11	7.24	7.36	7.49	7.63	7.77	7.91	8.05	8.21
7.40	8.36	8.52	8.69	8.85	9.02	9.21	9.61	10.63	12.49	14.76
7.60	16.92	18.65	19.94	20.95	21.75	22.42	22.98	23.45	23.87	24.22
7.80	24.50	24.75	24.94	25.08	25.17	25.21	25.20	25.15	25.04	24.90
8.00	24.69	24.29	23.45	22.05	20.39	18.83	17.56	16.60	15.84	15.19
8.20	14.64	14.14	13.69	13.27	12.88	12.50	12.16	11.82	11.51	11.21
8.40	10.92	10.66	10.41	10.17	9.95	9.74	9.58	9.53	9.61	9.75
8.60	9.88	9.94	9.93	9.89	9.81	9.73	9.63	9.52	9.42	9.31
8.80	9.20	9.10	8.99	8.89	8.78	8.68	8.58	8.48	8.38	8.28
9.00	8.19	8.09	7.99	7.89	7.79	7.69	7.59	7.50	7.42	7.34
9.20	7.26	7.19	7.12	7.05	6.98	6.92	6.86	6.80	6.75	6.69
9.40	6.64	6.60	6.55	6.51	6.47	6.43	6.40	6.39	6.40	6.43
9.60	6.45	6.45	6.45	6.44	6.42	6.40	6.38	6.36	6.33	6.31
9.80	6.28	6.26	6.23	6.21	6.18	6.15	6.13	6.10	6.08	6.05
10.00	6.02	6.00	5.97	5.93	5.89	5.85	5.81	5.78	5.75	5.73
10.20	5.70	5.68	5.66	5.64	5.62	5.60	5.58	5.56	5.55	5.53
10.40	5.52	5.50	5.49	5.47	5.46	5.45	5.44	5.45	5.47	5.49
10.60	5.51	5.52	5.53	5.52	5.51	5.50	5.48	5.47	5.45	5.43
10.80	5.42	5.40	5.38	5.36	5.35	5.33	5.31	5.29	5.28	5.26
11.00	5.24	5.22	5.21	5.19	5.17	5.15	5.14	5.12	5.10	5.08
11.20	5.06	5.05	5.03	5.01	4.99	4.98	4.96	4.94	4.92	4.90
11.40	4.89	4.87	4.85	4.83	4.81	4.80	4.78	4.75	4.72	4.68
11.60	4.65	4.63	4.61	4.59	4.57	4.55	4.54	4.53	4.51	4.50
11.80	4.49	4.48	4.47	4.46	4.46	4.45	4.44	4.44	4.43	4.43
12.00	4.43									

SUBCATCHMENT 10 Basin G - Subbasin 4

PEAK= 29.25 CFS @ 8.01 HRS, VOLUME= 4.78 AF

ACRES	CN		
4.35	98	Paved Streets	SCS TR-20 METHOD
9.70	76	Undeveloped - Group C Soil	TYPE IA 24-HOUR
4.17	65	Undeveloped - Group B Soil	RAINFALL= 6.00 IN
1.18	98	Impervious - Alzheimer Care Ctr	SPAN= 6-12 HRS, dt=.02 HRS
9.40	80	0.20 Acre Res - Group B Soil	
2.15	87	0.20 Acre Res - Group C Soil	
30.95	80		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	11.7

SUBCATCHMENT 10 RUNOFF PEAK= 29.25 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.80	3.84	3.90	3.95	4.01	4.08	4.16	4.23	4.31	4.38
6.20	4.46	4.53	4.59	4.65	4.71	4.77	4.82	4.87	4.93	4.98
6.40	5.03	5.07	5.12	5.16	5.21	5.25	5.29	5.32	5.34	5.35
6.60	5.35	5.33	5.31	5.29	5.28	5.27	5.27	5.29	5.31	5.34
6.80	5.37	5.41	5.46	5.50	5.56	5.61	5.68	5.74	5.81	5.88
7.00	5.96	6.04	6.13	6.22	6.31	6.41	6.51	6.62	6.73	6.84
7.20	6.96	7.08	7.21	7.35	7.48	7.62	7.77	7.92	8.08	8.24
7.40	8.40	8.58	8.75	8.93	9.12	9.31	9.56	9.91	10.48	11.37
7.60	12.60	14.10	15.73	17.38	18.97	20.42	21.70	22.81	23.79	24.67
7.80	25.45	26.13	26.74	27.29	27.76	28.16	28.50	28.78	29.00	29.15
8.00	29.23	29.23	29.09	28.74	28.13	27.23	26.13	24.93	23.69	22.52
8.20	21.44	20.49	19.65	18.90	18.22	17.60	17.02	16.48	15.98	15.51
8.40	15.07	14.65	14.26	13.89	13.54	13.22	12.91	12.65	12.44	12.29
8.60	12.22	12.21	12.22	12.24	12.25	12.24	12.20	12.14	12.06	11.96
8.80	11.86	11.76	11.65	11.53	11.42	11.30	11.18	11.06	10.94	10.83
9.00	10.71	10.59	10.47	10.36	10.24	10.12	10.00	9.88	9.77	9.66
9.20	9.55	9.44	9.35	9.25	9.16	9.07	8.98	8.90	8.82	8.74
9.40	8.67	8.60	8.54	8.47	8.41	8.35	8.30	8.25	8.21	8.19
9.60	8.18	8.18	8.17	8.18	8.18	8.17	8.16	8.14	8.13	8.11
9.80	8.09	8.06	8.03	8.01	7.98	7.95	7.92	7.90	7.87	7.84
10.00	7.81	7.78	7.75	7.71	7.68	7.64	7.60	7.56	7.51	7.47
10.20	7.44	7.41	7.37	7.34	7.31	7.28	7.26	7.23	7.21	7.18
10.40	7.16	7.14	7.12	7.10	7.09	7.07	7.05	7.04	7.03	7.03
10.60	7.04	7.05	7.07	7.08	7.08	7.09	7.09	7.08	7.07	7.06
10.80	7.04	7.03	7.01	6.99	6.98	6.96	6.94	6.92	6.90	6.88
11.00	6.86	6.84	6.81	6.79	6.78	6.75	6.73	6.71	6.69	6.67
11.20	6.65	6.62	6.60	6.58	6.56	6.54	6.52	6.50	6.47	6.45
11.40	6.43	6.41	6.39	6.36	6.34	6.32	6.30	6.27	6.25	6.22
11.60	6.19	6.15	6.12	6.09	6.06	6.03	6.00	5.98	5.96	5.94
11.80	5.92	5.90	5.89	5.87	5.86	5.85	5.83	5.83	5.82	5.81
12.00	5.80									

TYPE IA 24-HOUR RAINFALL= 6.00 IN
Prepared by HBH Consulting Engineers, Inc. 3 Jan 06
HydroCAD 5.11 001354 (c) 1986-1999 Applied Microcomputer Systems

SUBCATCHMENT 1 Basin H

PEAK= 194.4 CFS @ 8.66 HRS, VOLUME= 45.01 AF

ACRES	CN	
218.29	76	Forest - Group C Soil
99.34	65	Forest - Group B Soil
8.10	85	1/8 Acre Res - Group B Soil
20.52	83	1/4 Acre Res - Group C Soil
34.48	75	1/4 Acre Res - Group B Soil
5.04	91	Newly Graded - Group C Soil
385.77	74	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
SHALLOW CONCENTRATED/UPLAND FLOW	1	6.8
Woodland Kv=5 L=450' s=.0488 '/' V=1.1 fps		
SHALLOW CONCENTRATED/UPLAND FLOW	2	13.6
Woodland Kv=5 L=1323' s=.1058 '/' V=1.63 fps		
SHALLOW CONCENTRATED/UPLAND FLOW	3	25.4
Woodland Kv=5 L=1132' s=.0221 '/' V=.74 fps		
CHANNEL FLOW	4	7.8
a=6 sq-ft Pw=6.5' r=.923'		
s=.0224 '/' n=.04 V=5.27 fps L=2456' Capacity=31.6 cfs		
CHANNEL FLOW	5	2.0
a=7 sq-ft Pw=6.5' r=1.077'		
s=.122 '/' n=.04 V=13.63 fps L=1641' Capacity=95.4 cfs		
CHANNEL FLOW	6	6.3
a=10 sq-ft Pw=8.5' r=1.176'		
s=.0068 '/' n=.07 V=1.95 fps L=735' Capacity=19.5 cfs		
	Total Length= 7737 ft Total Tc=	61.9

SUBCATCHMENT 1 RUNOFF PEAK= 194.4 CFS @ 8.66 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	14.3	14.6	15.0	15.3	15.6	15.9	16.3	16.6	16.9	17.3
6.20	17.6	18.0	18.3	18.7	19.1	19.4	19.8	20.2	20.6	20.9
6.40	21.3	21.7	22.1	22.5	23.0	23.4	23.8	24.3	24.7	25.2
6.60	25.6	26.1	26.5	27.0	27.5	27.9	28.4	28.8	29.3	29.8
6.80	30.3	30.7	31.2	31.6	32.1	32.6	33.0	33.5	33.9	34.3
7.00	34.8	35.2	35.6	36.1	36.5	36.9	37.3	37.7	38.2	38.6
7.20	39.1	39.5	39.9	40.4	40.8	41.3	41.8	42.3	42.8	43.3
7.40	43.8	44.4	45.0	45.6	46.2	46.8	47.5	48.1	48.8	49.6
7.60	50.5	51.3	52.2	53.2	54.2	55.3	56.7	58.0	59.4	61.1
7.80	62.8	64.6	66.6	68.9	71.2	73.6	76.4	79.3	82.2	85.4
8.00	89.0	92.5	96.2	100.3	104.4	108.6	112.9	117.3	121.8	126.2
8.20	130.8	135.3	139.8	144.2	148.6	153.0	157.2	161.0	164.9	168.7
8.40	172.1	175.4	178.7	181.4	183.6	185.9	188.0	189.6	191.1	192.6
8.60	193.5	193.8	194.2	194.4	194.3	194.2	194.0	193.2	192.1	191.1
8.80	189.9	188.6	187.3	185.9	184.2	182.4	180.6	178.9	177.1	175.3
9.00	173.5	171.5	169.6	167.6	165.7	164.0	162.2	160.4	158.7	156.9
9.20	155.2	153.6	152.0	150.5	148.9	147.4	145.8	144.2	142.8	141.5
9.40	140.1	138.7	137.3	135.9	134.5	133.3	132.0	130.8	129.5	128.2
9.60	126.9	125.6	124.5	123.3	122.2	121.0	119.8	118.6	117.5	116.5
9.80	115.5	114.4	113.4	112.3	111.3	110.3	109.4	108.6	107.7	106.9
10.00	106.0	105.1	104.3	103.6	102.9	102.2	101.5	100.8	100.1	99.4
10.20	98.9	98.3	97.7	97.1	96.5	95.9	95.4	94.9	94.5	94.0
10.40	93.5	92.9	92.4	92.0	91.6	91.2	90.8	90.3	89.8	89.3
10.60	89.0	88.6	88.3	87.9	87.4	87.0	86.6	86.3	86.0	85.6
10.80	85.3	84.9	84.6	84.2	83.9	83.7	83.4	83.1	82.8	82.5
11.00	82.2	82.0	81.8	81.6	81.3	81.0	80.8	80.5	80.4	80.2
11.20	80.0	79.8	79.5	79.3	79.1	79.0	78.8	78.7	78.4	78.2
11.40	78.0	77.8	77.7	77.5	77.4	77.2	76.9	76.7	76.6	76.4
11.60	76.3	76.1	75.9	75.6	75.4	75.2	75.1	74.9	74.7	74.5
11.80	74.2	74.0	73.8	73.6	73.5	73.2	73.0	72.7	72.5	72.3
12.00	72.1									

SUBCATCHMENT 2 Basin I

PEAK= 104.0 CFS @ 7.93 HRS, VOLUME= 16.83 AF

ACRES	CN		
18.21	65	Forest - Group B Soil	SCS TR-20 METHOD
18.21	76	Forest - Group C Soil	TYPE IA 24-HOUR
75.71	83	SWOCC (~40% Imp.) - Group C Soil	RAINFALL= 6.00 IN
112.13	79		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.1

SUBCATCHMENT 2 RUNOFF PEAK= 104.0 CFS @ 7.93 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	13.5	13.7	13.9	14.2	14.6	14.9	15.2	15.4	15.6	15.8
6.20	16.0	16.2	16.4	16.6	16.8	17.0	17.1	17.3	17.5	17.6
6.40	17.8	17.9	18.1	18.2	18.3	18.5	18.5	18.5	18.3	18.1
6.60	17.9	17.8	17.8	17.9	18.0	18.1	18.3	18.4	18.6	18.8
6.80	19.0	19.2	19.4	19.6	19.9	20.2	20.4	20.7	21.0	21.3
7.00	21.7	22.0	22.4	22.8	23.2	23.6	24.0	24.4	24.9	25.3
7.20	25.8	26.3	26.8	27.4	27.9	28.5	29.1	29.7	30.3	31.0
7.40	31.6	32.3	33.0	33.7	34.4	35.3	37.1	41.9	50.4	59.9
7.60	68.4	74.8	79.7	83.6	86.8	89.6	92.0	94.2	96.1	97.8
7.80	99.3	100.5	101.6	102.5	103.2	103.6	103.9	104.0	103.8	103.4
8.00	102.8	101.3	97.4	90.8	83.5	77.2	72.4	68.9	66.0	63.6
8.20	61.5	59.6	57.8	56.2	54.6	53.1	51.7	50.4	49.1	47.9
8.40	46.7	45.7	44.6	43.7	42.8	41.9	41.3	41.3	41.9	42.7
8.60	43.3	43.5	43.4	43.2	42.9	42.5	42.1	41.6	41.2	40.7
8.80	40.3	39.8	39.4	39.0	38.5	38.1	37.7	37.3	36.9	36.5
9.00	36.1	35.7	35.2	34.8	34.4	34.0	33.6	33.2	32.8	32.5
9.20	32.2	31.9	31.6	31.3	31.0	30.8	30.5	30.3	30.1	29.8
9.40	29.6	29.4	29.2	29.1	28.9	28.7	28.6	28.6	28.7	28.9
9.60	29.0	29.0	29.0	28.9	28.9	28.8	28.7	28.6	28.5	28.4
9.80	28.3	28.2	28.1	28.0	27.9	27.8	27.6	27.5	27.4	27.3
10.00	27.2	27.1	27.0	26.8	26.6	26.4	26.3	26.2	26.1	26.0
10.20	25.9	25.8	25.7	25.6	25.5	25.4	25.4	25.3	25.2	25.2
10.40	25.1	25.0	25.0	24.9	24.9	24.8	24.8	24.9	25.0	25.1
10.60	25.2	25.3	25.3	25.2	25.2	25.1	25.1	25.0	24.9	24.9
10.80	24.8	24.7	24.6	24.6	24.5	24.4	24.3	24.3	24.2	24.1
11.00	24.0	24.0	23.9	23.8	23.7	23.7	23.6	23.5	23.4	23.4
11.20	23.3	23.2	23.1	23.1	23.0	22.9	22.8	22.8	22.7	22.6
11.40	22.5	22.4	22.4	22.3	22.2	22.1	22.0	21.9	21.8	21.6
11.60	21.5	21.4	21.3	21.2	21.1	21.1	21.0	20.9	20.9	20.8
11.80	20.8	20.8	20.7	20.7	20.7	20.6	20.6	20.6	20.6	20.6
12.00	20.5									

SUBCATCHMENT 3 Basin J - Overall

PEAK= 100.1 CFS @ 7.97 HRS, VOLUME= 16.13 AF

ACRES	CN		
6.60	98	Paved Streets	SCS TR-20 METHOD
14.64	77	Brush - Group C Soil	TYPE IA 24-HOUR
39.02	94	Commercial - Group C Soil	RAINFALL= 6.00 IN
7.54	85	1/8 Acre Res - Group B Soil	SPAN= 6-12 HRS, dt=.02 HRS
11.91	90	1/8 Acre Res - Group C Soil	
79.71	90		

Method	Comment	Tc (min)
DIRECT ENTRY	Overland Flow	6.9
CIRCULAR CHANNEL	10" Pipe	2.8
10" Diameter a=.55 sq-ft Pw=2.6' r=.208'		
s=.028 '/' n=.013 V=6.72 fps L=1141' Capacity=3.7 cfs		
CIRCULAR CHANNEL	15" Pipe	.2
15" Diameter a=1.23 sq-ft Pw=3.9' r=.313'		
s=.029 '/' n=.013 V=8.96 fps L=105' Capacity=11 cfs		
CIRCULAR CHANNEL	24" Pipe	.4
24" Diameter a=3.14 sq-ft Pw=6.3' r=.5'		
s=.029 '/' n=.013 V=12.26 fps L=271' Capacity=38.5 cfs		
CIRCULAR CHANNEL	36" Pipe	.6
36" Diameter a=7.07 sq-ft Pw=9.4' r=.75'		
s=.007 '/' n=.013 V=7.89 fps L=297' Capacity=55.8 cfs		
CIRCULAR CHANNEL	48" Pipe	.2
48" Diameter a=12.57 sq-ft Pw=12.6' r=1'		
s=.005 '/' n=.011 V=9.55 fps L=90' Capacity=120 cfs		
	Total Length= 1904 ft Total Tc=	11.1

SUBCATCHMENT 3 RUNOFF PEAK= 100.1 CFS @ 7.97 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	18.3	18.4	18.6	18.8	19.0	19.3	19.6	19.9	20.1	20.4
6.20	20.7	20.9	21.1	21.3	21.5	21.7	21.8	22.0	22.1	22.3
6.40	22.4	22.5	22.6	22.8	22.9	23.0	23.1	23.1	23.1	23.1
6.60	22.9	22.8	22.6	22.5	22.3	22.3	22.2	22.2	22.3	22.3
6.80	22.4	22.5	22.7	22.8	23.0	23.2	23.4	23.6	23.8	24.1
7.00	24.3	24.6	24.9	25.2	25.5	25.8	26.2	26.5	26.9	27.3
7.20	27.7	28.1	28.6	29.0	29.5	30.0	30.5	31.0	31.5	32.1
7.40	32.6	33.2	33.8	34.4	35.0	35.7	36.4	37.7	39.9	43.5
7.60	48.5	54.4	60.6	66.6	72.2	77.0	81.0	84.4	87.4	89.9
7.80	92.1	94.0	95.6	96.9	98.0	98.8	99.5	99.9	100.1	100.1
8.00	99.9	99.4	98.3	96.6	93.8	90.1	85.9	81.4	77.0	72.9
8.20	69.2	66.1	63.3	60.8	58.5	56.5	54.5	52.8	51.1	49.5
8.40	48.1	46.7	45.4	44.2	43.1	42.0	41.0	40.2	39.5	39.1
8.60	38.9	38.9	38.9	39.0	39.0	38.9	38.7	38.5	38.2	37.8
8.80	37.4	37.1	36.7	36.3	35.9	35.5	35.1	34.7	34.3	33.9
9.00	33.5	33.1	32.7	32.3	31.9	31.5	31.1	30.7	30.3	30.0
9.20	29.6	29.3	29.0	28.6	28.3	28.1	27.8	27.5	27.3	27.0
9.40	26.8	26.5	26.3	26.1	25.9	25.7	25.6	25.4	25.3	25.2
9.60	25.2	25.2	25.2	25.2	25.2	25.1	25.1	25.0	24.9	24.9
9.80	24.8	24.7	24.6	24.5	24.4	24.3	24.2	24.1	24.0	23.9
10.00	23.8	23.7	23.6	23.5	23.4	23.2	23.1	23.0	22.8	22.7
10.20	22.6	22.5	22.4	22.3	22.2	22.1	22.0	21.9	21.8	21.8
10.40	21.7	21.6	21.5	21.5	21.4	21.4	21.3	21.3	21.3	21.2
10.60	21.3	21.3	21.3	21.4	21.4	21.4	21.4	21.3	21.3	21.3
10.80	21.2	21.1	21.1	21.0	21.0	20.9	20.8	20.8	20.7	20.6
11.00	20.6	20.5	20.4	20.4	20.3	20.2	20.1	20.1	20.0	19.9
11.20	19.9	19.8	19.7	19.7	19.6	19.5	19.4	19.4	19.3	19.2
11.40	19.2	19.1	19.0	18.9	18.9	18.8	18.7	18.7	18.6	18.5
11.60	18.4	18.3	18.2	18.1	18.0	17.9	17.8	17.7	17.7	17.6
11.80	17.6	17.5	17.5	17.4	17.4	17.3	17.3	17.3	17.2	17.2
12.00	17.2									

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SUBCATCHMENT 4 Basin J - Subbasin 1

PEAK= 25.82 CFS @ 7.97 HRS, VOLUME= 4.17 AF

ACRES	CN		
.91	98	Paved Streets	SCS TR-20 METHOD
11.81	76	Forestland - Group C Soil	TYPE IA 24-HOUR
4.16	94	Commercial	RAINFALL= 6.00 IN
7.06	90	1/8 Acre Res - Group C Soil	SPAN= 6-12 HRS, dt=.02 HRS
23.94	84		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	9.9

SUBCATCHMENT 4 RUNOFF PEAK= 25.82 CFS @ 7.97 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.93	3.97	4.02	4.07	4.14	4.21	4.28	4.36	4.43	4.49
6.20	4.55	4.61	4.66	4.71	4.76	4.80	4.85	4.89	4.93	4.97
6.40	5.01	5.04	5.08	5.11	5.14	5.18	5.20	5.22	5.22	5.21
6.60	5.18	5.14	5.11	5.08	5.07	5.07	5.08	5.09	5.11	5.14
6.80	5.18	5.21	5.26	5.30	5.35	5.41	5.46	5.53	5.59	5.66
7.00	5.73	5.81	5.89	5.97	6.06	6.15	6.24	6.34	6.44	6.54
7.20	6.65	6.77	6.88	7.01	7.13	7.26	7.39	7.53	7.67	7.82
7.40	7.97	8.12	8.28	8.45	8.62	8.79	9.02	9.42	10.15	11.33
7.60	12.86	14.54	16.21	17.75	19.09	20.18	21.12	21.92	22.62	23.23
7.80	23.77	24.23	24.63	24.96	25.24	25.47	25.64	25.75	25.81	25.82
8.00	25.77	25.63	25.33	24.76	23.87	22.74	21.50	20.27	19.14	18.15
8.20	17.31	16.58	15.94	15.36	14.83	14.35	13.90	13.48	13.08	12.71
8.40	12.36	12.03	11.72	11.42	11.15	10.89	10.66	10.47	10.35	10.30
8.60	10.31	10.36	10.40	10.43	10.42	10.38	10.32	10.25	10.17	10.07
8.80	9.97	9.87	9.77	9.66	9.56	9.45	9.34	9.24	9.14	9.03
9.00	8.93	8.83	8.73	8.63	8.52	8.42	8.31	8.21	8.11	8.02
9.20	7.93	7.85	7.77	7.69	7.61	7.54	7.47	7.40	7.33	7.27
9.40	7.21	7.16	7.10	7.05	7.00	6.95	6.91	6.88	6.86	6.85
9.60	6.85	6.86	6.86	6.86	6.86	6.85	6.83	6.82	6.80	6.78
9.80	6.75	6.73	6.71	6.68	6.66	6.63	6.61	6.58	6.55	6.53
10.00	6.50	6.47	6.44	6.41	6.38	6.34	6.30	6.27	6.23	6.20
10.20	6.17	6.14	6.12	6.09	6.07	6.04	6.02	6.00	5.98	5.96
10.40	5.95	5.93	5.91	5.90	5.88	5.87	5.86	5.85	5.85	5.85
10.60	5.87	5.88	5.89	5.90	5.90	5.90	5.89	5.88	5.87	5.86
10.80	5.84	5.83	5.81	5.79	5.78	5.76	5.74	5.72	5.71	5.69
11.00	5.67	5.65	5.63	5.62	5.60	5.58	5.56	5.54	5.52	5.51
11.20	5.49	5.47	5.45	5.43	5.41	5.39	5.37	5.36	5.34	5.32
11.40	5.30	5.28	5.26	5.24	5.22	5.21	5.19	5.16	5.14	5.11
11.60	5.08	5.05	5.03	5.00	4.97	4.95	4.93	4.92	4.90	4.88
11.80	4.87	4.86	4.84	4.83	4.82	4.81	4.81	4.80	4.79	4.78
12.00	4.78									

SUBCATCHMENT 5 Basin K - Subbasin 1

PEAK= 66.41 CFS @ 8.01 HRS, VOLUME= 10.83 AF

ACRES	CN		
8.03	98	Paved Streets	
11.82	92	Commercial	
27.16	90	1/8 Acre Res - Group C Soil	
10.41	66	Forest/Brush - Group B Soil	
57.42	87		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.4

SUBCATCHMENT 5 RUNOFF PEAK= 66.41 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	11.01	11.12	11.22	11.34	11.48	11.62	11.78	11.96	12.13	12.30
6.20	12.48	12.64	12.80	12.95	13.08	13.21	13.34	13.46	13.57	13.69
6.40	13.79	13.89	13.99	14.08	14.16	14.25	14.33	14.39	14.44	14.46
6.60	14.44	14.41	14.35	14.28	14.22	14.17	14.13	14.12	14.12	14.14
6.80	14.19	14.25	14.31	14.40	14.49	14.59	14.71	14.84	14.97	15.12
7.00	15.29	15.45	15.63	15.82	16.01	16.22	16.44	16.66	16.90	17.15
7.20	17.40	17.67	17.95	18.23	18.53	18.84	19.15	19.48	19.83	20.17
7.40	20.53	20.91	21.28	21.67	22.08	22.50	22.97	23.64	24.64	26.14
7.60	28.31	31.11	34.37	37.87	41.40	44.79	47.99	50.85	53.31	55.50
7.80	57.40	59.06	60.57	61.86	62.95	63.93	64.72	65.33	65.84	66.18
8.00	66.35	66.40	66.16	65.55	64.56	63.04	61.00	58.69	56.16	53.58
8.20	51.09	48.73	46.55	44.61	42.88	41.26	39.79	38.43	37.13	35.95
8.40	34.84	33.77	32.79	31.87	30.98	30.17	29.42	28.71	28.13	27.66
8.60	27.30	27.08	26.95	26.86	26.80	26.75	26.65	26.53	26.39	26.19
8.80	25.98	25.76	25.51	25.26	25.01	24.74	24.47	24.21	23.94	23.67
9.00	23.41	23.14	22.87	22.62	22.35	22.08	21.83	21.56	21.29	21.05
9.20	20.80	20.55	20.33	20.10	19.87	19.67	19.47	19.27	19.09	18.91
9.40	18.73	18.57	18.41	18.25	18.12	17.98	17.84	17.73	17.63	17.53
9.60	17.48	17.44	17.41	17.40	17.39	17.36	17.35	17.32	17.27	17.23
9.80	17.19	17.13	17.07	17.02	16.95	16.89	16.84	16.76	16.70	16.64
10.00	16.57	16.50	16.44	16.36	16.28	16.21	16.11	16.03	15.94	15.85
10.20	15.76	15.69	15.61	15.53	15.47	15.40	15.33	15.28	15.21	15.15
10.40	15.11	15.05	15.00	14.96	14.91	14.87	14.84	14.80	14.77	14.76
10.60	14.75	14.75	14.77	14.79	14.80	14.81	14.81	14.80	14.79	14.77
10.80	14.73	14.71	14.68	14.63	14.60	14.56	14.51	14.48	14.43	14.38
11.00	14.34	14.30	14.25	14.21	14.16	14.11	14.07	14.02	13.97	13.92
11.20	13.88	13.83	13.78	13.74	13.69	13.64	13.60	13.54	13.50	13.45
11.40	13.40	13.35	13.31	13.26	13.21	13.16	13.11	13.06	13.01	12.95
11.60	12.89	12.83	12.75	12.68	12.62	12.56	12.49	12.44	12.39	12.34
11.80	12.30	12.26	12.21	12.18	12.15	12.11	12.09	12.06	12.04	12.02
12.00	12.00									

SUBCATCHMENT 6 Basin K - Subbasin 2

PEAK= 80.06 CFS @ 8.01 HRS, VOLUME= 13.06 AF

ACRES	CN		
10.82	98	Paved Streets	
13.91	91	Commercial/Industrial	
4.22	81	1/3 Acre Res - Group C Soil	
2.75	77	Forest/Brush - Group C Soil	
2.46	67	Forest/Brush - Group B Soil	
26.57	85	1/8 Acre Res - Group B Soil	
12.27	74	Cemetery - Group C Soil	
73.00	85		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.1

SUBCATCHMENT 6 RUNOFF PEAK= 80.06 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	12.44	12.56	12.70	12.85	13.01	13.19	13.39	13.59	13.80	14.02
6.20	14.22	14.41	14.60	14.78	14.94	15.10	15.26	15.40	15.54	15.68
6.40	15.80	15.93	16.05	16.16	16.27	16.38	16.48	16.55	16.62	16.65
6.60	16.63	16.60	16.54	16.46	16.40	16.35	16.32	16.31	16.33	16.37
6.80	16.43	16.51	16.60	16.71	16.83	16.97	17.11	17.27	17.45	17.63
7.00	17.82	18.04	18.25	18.48	18.73	18.98	19.24	19.52	19.81	20.10
7.20	20.42	20.75	21.08	21.43	21.80	22.17	22.56	22.96	23.37	23.79
7.40	24.24	24.69	25.15	25.64	26.12	26.63	27.25	28.08	29.36	31.28
7.60	34.00	37.46	41.45	45.71	49.95	54.04	57.85	61.23	64.17	66.78
7.80	69.05	71.05	72.87	74.43	75.76	76.94	77.92	78.68	79.30	79.76
8.00	79.99	80.04	79.80	79.07	77.79	75.91	73.38	70.44	67.37	64.23
8.20	61.19	58.37	55.81	53.52	51.47	49.60	47.84	46.22	44.73	43.30
8.40	41.98	40.75	39.57	38.47	37.45	36.47	35.55	34.74	34.05	33.48
8.60	33.11	32.90	32.77	32.71	32.68	32.61	32.51	32.39	32.18	31.94
8.80	31.70	31.41	31.11	30.82	30.51	30.18	29.86	29.55	29.21	28.89
9.00	28.58	28.25	27.93	27.62	27.30	26.97	26.66	26.34	26.01	25.72
9.20	25.42	25.12	24.84	24.58	24.30	24.06	23.82	23.58	23.35	23.15
9.40	22.93	22.73	22.55	22.37	22.18	22.03	21.87	21.72	21.61	21.52
9.60	21.44	21.40	21.38	21.36	21.35	21.34	21.31	21.27	21.23	21.17
9.80	21.11	21.05	20.98	20.90	20.84	20.77	20.68	20.61	20.53	20.45
10.00	20.36	20.29	20.20	20.11	20.02	19.92	19.81	19.71	19.60	19.49
10.20	19.39	19.30	19.20	19.11	19.03	18.94	18.87	18.80	18.73	18.66
10.40	18.60	18.54	18.47	18.43	18.37	18.31	18.27	18.24	18.20	18.19
10.60	18.19	18.20	18.22	18.24	18.26	18.26	18.27	18.26	18.24	18.22
10.80	18.18	18.14	18.10	18.06	18.01	17.96	17.92	17.86	17.80	17.76
11.00	17.70	17.64	17.59	17.53	17.47	17.42	17.36	17.30	17.25	17.19
11.20	17.13	17.07	17.02	16.96	16.90	16.85	16.78	16.72	16.67	16.61
11.40	16.55	16.50	16.44	16.37	16.32	16.26	16.20	16.14	16.08	16.00
11.60	15.92	15.85	15.76	15.67	15.60	15.51	15.44	15.38	15.31	15.25
11.80	15.20	15.16	15.10	15.06	15.03	14.98	14.95	14.93	14.89	14.86

SUBCATCHMENT 7 Basin K - Subbasin 3

PEAK= 23.48 CFS @ 7.97 HRS, VOLUME= 3.79 AF

ACRES	CN		
2.29	98	Paved Streets	
7.53	94	Commercial	
5.92	81	1/3 Acre Res - Group C Soil	
4.87	76	Forest/Brush - Group C Soil	
20.61	86		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.5

SUBCATCHMENT 7 RUNOFF PEAK= 23.48 CFS @ 7.97 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.80	3.84	3.89	3.93	3.99	4.05	4.12	4.19	4.25	4.31
6.20	4.37	4.42	4.47	4.52	4.56	4.60	4.64	4.68	4.72	4.75
6.40	4.78	4.82	4.85	4.88	4.91	4.93	4.96	4.97	4.98	4.97
6.60	4.94	4.91	4.87	4.84	4.83	4.82	4.82	4.83	4.84	4.87
6.80	4.89	4.92	4.96	5.00	5.04	5.09	5.14	5.19	5.25	5.31
7.00	5.37	5.44	5.51	5.58	5.66	5.74	5.82	5.91	6.00	6.10
7.20	6.19	6.29	6.40	6.51	6.62	6.74	6.85	6.98	7.10	7.24
7.40	7.37	7.51	7.65	7.80	7.95	8.10	8.31	8.66	9.26	10.19
7.60	11.45	12.88	14.35	15.76	17.02	18.10	19.00	19.77	20.44	21.03
7.80	21.54	21.97	22.35	22.66	22.92	23.13	23.29	23.41	23.47	23.48
8.00	23.44	23.33	23.08	22.64	21.93	20.98	19.91	18.81	17.77	16.83
8.20	16.02	15.33	14.72	14.16	13.65	13.19	12.76	12.36	11.99	11.64
8.40	11.31	11.00	10.70	10.42	10.17	9.92	9.70	9.52	9.38	9.31
8.60	9.30	9.32	9.35	9.37	9.37	9.34	9.29	9.23	9.15	9.07
8.80	8.99	8.90	8.80	8.71	8.61	8.51	8.42	8.32	8.23	8.13
9.00	8.04	7.95	7.86	7.77	7.67	7.58	7.48	7.39	7.30	7.22
9.20	7.13	7.06	6.98	6.91	6.84	6.77	6.71	6.64	6.58	6.53
9.40	6.47	6.42	6.37	6.32	6.27	6.23	6.19	6.16	6.13	6.12
9.60	6.12	6.12	6.12	6.13	6.12	6.11	6.10	6.09	6.07	6.05
9.80	6.03	6.01	5.99	5.97	5.94	5.92	5.90	5.87	5.85	5.83
10.00	5.80	5.78	5.75	5.72	5.69	5.66	5.63	5.59	5.56	5.53
10.20	5.51	5.48	5.46	5.43	5.41	5.39	5.37	5.35	5.33	5.31
10.40	5.30	5.28	5.27	5.25	5.24	5.22	5.21	5.20	5.20	5.20
10.60	5.21	5.22	5.23	5.24	5.24	5.24	5.24	5.23	5.22	5.21
10.80	5.20	5.18	5.17	5.15	5.14	5.12	5.11	5.09	5.07	5.06
11.00	5.04	5.02	5.01	4.99	4.98	4.96	4.94	4.93	4.91	4.89
11.20	4.88	4.86	4.84	4.82	4.81	4.79	4.78	4.76	4.74	4.72
11.40	4.71	4.69	4.67	4.66	4.64	4.62	4.60	4.59	4.56	4.54
11.60	4.52	4.49	4.46	4.44	4.42	4.40	4.38	4.36	4.35	4.33
11.80	4.32	4.31	4.30	4.29	4.28	4.27	4.26	4.25	4.24	4.24
12.00	4.23									

SUBCATCHMENT 8 Basin L - Overall

PEAK= 174.1 CFS @ 8.31 HRS, VOLUME= 34.59 AF

ACRES	CN		SCS TR-20 METHOD
8.20	98	Paved Streets	TYPE IA 24-HOUR
38.14	85	1/8 Acre Res - Group B Soil	RAINFALL= 6.00 IN
24.76	75	1/4 Acre Res - Group B Soil	SPAN= 6-12 HRS, dt=.02 HRS
5.21	65	2 Acre Res - Group B Soil	
10.36	88	Industrial	
23.53	92	Commercial	
77.21	65	Forest - Group B Soil	
76.11	76	Forest - Group C Soil	
263.52	76		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	37.5

SUBCATCHMENT 8 RUNOFF PEAK= 174.1 CFS @ 8.31 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	17.6	17.9	18.2	18.4	18.7	19.0	19.3	19.6	19.8	20.2
6.20	20.5	20.8	21.1	21.5	21.8	22.2	22.5	22.9	23.3	23.7
6.40	24.0	24.4	24.9	25.3	25.6	26.0	26.5	26.9	27.3	27.7
6.60	28.1	28.5	28.8	29.2	29.6	29.9	30.2	30.5	30.9	31.2
6.80	31.4	31.7	32.0	32.2	32.5	32.7	32.9	33.2	33.4	33.6
7.00	33.9	34.1	34.4	34.7	34.9	35.3	35.6	35.9	36.2	36.6
7.20	37.1	37.5	37.9	38.4	38.9	39.4	39.9	40.4	41.0	41.7
7.40	42.3	42.9	43.6	44.4	45.1	45.9	46.7	47.5	48.4	49.3
7.60	50.5	51.7	53.1	54.6	56.4	58.4	60.7	63.1	66.1	69.3
7.80	73.0	76.8	81.2	85.6	90.4	95.3	100.4	105.6	110.9	116.2
8.00	121.6	127.0	132.3	137.3	142.3	147.1	151.7	155.7	159.6	163.1
8.20	166.3	168.6	170.7	172.3	173.6	174.0	174.0	173.7	173.2	172.0
8.40	170.4	168.7	166.9	164.6	162.1	159.4	156.8	154.0	151.0	148.0
8.60	145.1	142.2	139.2	136.2	133.5	130.9	128.3	125.8	123.6	121.4
8.80	119.3	117.2	115.4	113.7	112.1	110.4	108.9	107.5	106.2	104.8
9.00	103.5	102.4	101.2	100.0	98.9	97.9	96.9	95.8	94.7	93.7
9.20	92.8	91.7	90.7	89.7	88.8	87.8	86.8	85.9	85.0	84.1
9.40	83.1	82.2	81.4	80.5	79.6	78.8	78.0	77.3	76.4	75.6
9.60	75.0	74.3	73.5	72.8	72.2	71.7	71.0	70.4	69.9	69.5
9.80	69.0	68.5	68.1	67.7	67.3	66.9	66.6	66.3	66.0	65.6
10.00	65.4	65.1	64.9	64.6	64.3	64.1	63.9	63.6	63.3	63.1
10.20	62.9	62.7	62.4	62.2	62.0	61.7	61.4	61.2	61.0	60.7
10.40	60.4	60.2	60.0	59.7	59.4	59.2	59.0	58.8	58.5	58.3
10.60	58.1	57.9	57.7	57.5	57.4	57.2	57.0	56.8	56.7	56.7
10.80	56.5	56.4	56.3	56.2	56.1	56.0	55.9	55.9	55.8	55.7
11.00	55.6	55.6	55.5	55.4	55.3	55.2	55.1	55.0	54.9	54.8
11.20	54.7	54.6	54.4	54.3	54.3	54.1	53.9	53.8	53.7	53.6
11.40	53.4	53.3	53.2	53.0	52.8	52.7	52.6	52.4	52.3	52.1

SUBCATCHMENT 9 Basin L - Subbasin 1

PEAK= 7.51 CFS @ 7.84 HRS, VOLUME= 1.19 AF

ACRES	CN		
2.12	98	Paved Streets	SCS TR-20 METHOD
3.76	85	1/8 Acre Res - Group B Soil	TYPE IA 24-HOUR
5.88	90		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	2.8

SUBCATCHMENT 9 RUNOFF PEAK= 7.51 CFS @ 7.84 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.43	1.46	1.50	1.53	1.55	1.56	1.57	1.59	1.60	1.61
6.20	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.69	1.70
6.40	1.71	1.71	1.72	1.73	1.73	1.73	1.70	1.64	1.62	1.61
6.60	1.61	1.62	1.62	1.63	1.64	1.65	1.66	1.68	1.69	1.71
6.80	1.72	1.74	1.75	1.77	1.79	1.81	1.84	1.86	1.88	1.91
7.00	1.93	1.96	1.99	2.02	2.05	2.08	2.11	2.15	2.18	2.22
7.20	2.25	2.29	2.33	2.37	2.41	2.46	2.50	2.55	2.59	2.64
7.40	2.69	2.74	2.79	2.84	2.90	3.01	3.86	5.19	5.93	6.30
7.60	6.53	6.71	6.85	6.98	7.09	7.19	7.27	7.35	7.41	7.45
7.80	7.48	7.50	7.51	7.50	7.48	7.44	7.39	7.32	7.24	7.14
8.00	7.00	6.38	5.46	4.95	4.68	4.50	4.35	4.22	4.09	3.97
8.20	3.86	3.75	3.64	3.54	3.44	3.35	3.26	3.18	3.10	3.02
8.40	2.95	2.89	2.83	2.77	2.72	2.68	2.75	2.89	2.94	2.93
8.60	2.90	2.87	2.84	2.80	2.77	2.74	2.70	2.67	2.64	2.61
8.80	2.58	2.54	2.51	2.48	2.45	2.43	2.40	2.37	2.34	2.31
9.00	2.29	2.25	2.22	2.19	2.17	2.14	2.12	2.10	2.08	2.05
9.20	2.03	2.02	2.00	1.98	1.96	1.95	1.93	1.91	1.90	1.89
9.40	1.87	1.86	1.85	1.84	1.83	1.82	1.84	1.86	1.87	1.86
9.60	1.86	1.85	1.85	1.84	1.83	1.82	1.81	1.81	1.80	1.79
9.80	1.78	1.78	1.77	1.76	1.75	1.75	1.74	1.73	1.72	1.72
10.00	1.71	1.69	1.68	1.67	1.66	1.65	1.64	1.64	1.63	1.62
10.20	1.62	1.61	1.61	1.60	1.60	1.59	1.59	1.58	1.58	1.57
10.40	1.57	1.56	1.56	1.56	1.55	1.55	1.56	1.58	1.59	1.59
10.60	1.59	1.58	1.58	1.57	1.57	1.56	1.56	1.55	1.55	1.54
10.80	1.54	1.53	1.52	1.52	1.51	1.51	1.50	1.50	1.49	1.49
11.00	1.48	1.48	1.47	1.47	1.46	1.46	1.45	1.45	1.44	1.44
11.20	1.43	1.43	1.42	1.42	1.41	1.41	1.40	1.40	1.39	1.39
11.40	1.38	1.37	1.37	1.36	1.36	1.35	1.34	1.33	1.32	1.31
11.60	1.31	1.30	1.30	1.29	1.29	1.29	1.28	1.28	1.28	1.27
11.80	1.27	1.27	1.27	1.27	1.26	1.26	1.26	1.26	1.26	1.26
12.00	1.26									

TYPE IA 24-HOUR RAINFALL= 6.00 IN
Prepared by HBH Consulting Engineers, Inc. 4 Jan 06
HydroCAD 5.11 001354 (c) 1986-1999 Applied Microcomputer Systems

SUBCATCHMENT 1 Basin M - Overall

PEAK= 87.02 CFS @ 9.08 HRS, VOLUME= 21.70 AF

ACRES	CN		SCS TR-20 METHOD
7.00	98	Paved Streets	TYPE IA 24-HOUR
18.00	85	1/8 Acre Res - Group B Soil	RAINFALL= 6.00 IN
12.00	92	Commercial	SPAN= 6-12 HRS, dt=.02 HRS
7.00	88	Industrial	
80.00	73	Wetlands	
153.00	58	Forest - Group B Soil	
277.00	67		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	85.0

SUBCATCHMENT 1 RUNOFF PEAK= 87.02 CFS @ 9.08 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.43	.47	.52	.57	.63	.68	.74	.80	.87	.94
6.20	1.01	1.08	1.17	1.26	1.34	1.43	1.52	1.62	1.73	1.84
6.40	1.94	2.05	2.18	2.30	2.43	2.55	2.69	2.83	2.97	3.11
6.60	3.26	3.42	3.58	3.74	3.90	4.06	4.24	4.42	4.59	4.77
6.80	4.95	5.14	5.34	5.53	5.72	5.92	6.12	6.32	6.52	6.72
7.00	6.94	7.15	7.36	7.58	7.79	8.01	8.23	8.44	8.66	8.89
7.20	9.12	9.35	9.58	9.82	10.05	10.29	10.53	10.76	11.00	11.26
7.40	11.52	11.78	12.04	12.31	12.58	12.85	13.13	13.40	13.71	14.03
7.60	14.36	14.68	15.01	15.38	15.75	16.12	16.49	16.90	17.39	17.89
7.80	18.39	18.89	19.47	20.12	20.76	21.41	22.07	22.88	23.73	24.59
8.00	25.45	26.35	27.43	28.53	29.63	30.73	31.93	33.27	34.61	35.95
8.20	37.30	38.79	40.36	41.94	43.51	45.09	46.76	48.45	50.13	51.82
8.40	53.51	55.22	56.92	58.63	60.34	61.99	63.59	65.18	66.78	68.37
8.60	69.78	71.13	72.48	73.83	75.14	76.29	77.42	78.54	79.67	80.66
8.80	81.39	82.12	82.85	83.58	84.18	84.71	85.23	85.76	86.25	86.47
9.00	86.61	86.76	86.90	87.01	87.02	87.01	87.01	87.01	86.88	86.60
9.20	86.31	86.03	85.74	85.41	85.06	84.70	84.34	83.97	83.48	82.97
9.40	82.47	81.96	81.45	80.95	80.45	79.95	79.45	78.92	78.36	77.81
9.60	77.25	76.70	76.19	75.69	75.19	74.69	74.18	73.66	73.14	72.61
9.80	72.09	71.59	71.12	70.66	70.20	69.73	69.26	68.78	68.30	67.82
10.00	67.35	66.92	66.50	66.08	65.66	65.23	64.80	64.36	63.93	63.49
10.20	63.09	62.72	62.35	61.98	61.61	61.24	60.86	60.49	60.11	59.75
10.40	59.43	59.12	58.82	58.51	58.20	57.87	57.55	57.23	56.91	56.63
10.60	56.37	56.12	55.86	55.61	55.34	55.06	54.79	54.51	54.25	54.04
10.80	53.83	53.61	53.40	53.18	52.95	52.72	52.48	52.25	52.06	51.89
11.00	51.71	51.54	51.36	51.17	50.97	50.78	50.58	50.40	50.26	50.12
11.20	49.98	49.84	49.68	49.52	49.35	49.19	49.02	48.90	48.78	48.66
11.40	48.55	48.43	48.28	48.14	48.00	47.85	47.73	47.62	47.52	47.42
11.60	47.32	47.20	47.07	46.94	46.81	46.68	46.58	46.48	46.39	46.29
11.80	46.19	46.06	45.93	45.81	45.68	45.57	45.47	45.37	45.27	45.18
12.00	45.05									

SUBCATCHMENT 2 Basin M - Subbasin 1

PEAK= 8.17 CFS @ 8.17 HRS, VOLUME= 1.48 AF

ACRES	CN		
1.77	98	Paved Streets	SCS TR-20 METHOD
1.63	92	Commercial - Group B Soil	TYPE IA 24-HOUR
.92	85	Trailer Park	RAINFALL= 6.00 IN
7.25	65	Forest/Brush - Fair Condition	SPAN= 6-12 HRS, dt=.02 HRS
11.57	75		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	25.4

SUBCATCHMENT 2 RUNOFF PEAK= 8.17 CFS @ 8.17 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.79	.80	.82	.83	.84	.86	.87	.89	.90	.92
6.20	.93	.95	.97	.99	1.00	1.02	1.04	1.06	1.08	1.10
6.40	1.12	1.13	1.15	1.17	1.19	1.20	1.22	1.24	1.26	1.27
6.60	1.28	1.30	1.31	1.32	1.34	1.35	1.36	1.36	1.37	1.38
6.80	1.39	1.39	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47
7.00	1.48	1.50	1.51	1.53	1.55	1.57	1.59	1.61	1.63	1.66
7.20	1.68	1.70	1.73	1.76	1.79	1.82	1.85	1.88	1.92	1.95
7.40	1.99	2.03	2.07	2.11	2.15	2.20	2.25	2.29	2.35	2.42
7.60	2.50	2.59	2.71	2.84	3.01	3.20	3.41	3.66	3.92	4.19
7.80	4.48	4.78	5.07	5.37	5.66	5.95	6.23	6.49	6.74	6.98
8.00	7.19	7.39	7.58	7.73	7.88	7.99	8.07	8.14	8.17	8.16
8.20	8.13	8.06	7.96	7.85	7.70	7.55	7.38	7.20	7.02	6.84
8.40	6.65	6.47	6.29	6.11	5.95	5.79	5.64	5.49	5.35	5.22
8.60	5.10	4.98	4.87	4.77	4.67	4.60	4.52	4.45	4.40	4.34
8.80	4.29	4.25	4.20	4.16	4.13	4.09	4.05	4.02	3.98	3.94
9.00	3.90	3.86	3.83	3.79	3.75	3.71	3.67	3.63	3.60	3.56
9.20	3.52	3.49	3.45	3.41	3.38	3.34	3.30	3.27	3.23	3.20
9.40	3.17	3.14	3.11	3.08	3.05	3.02	3.00	2.97	2.95	2.92
9.60	2.90	2.88	2.86	2.84	2.83	2.81	2.80	2.79	2.78	2.77
9.80	2.76	2.75	2.74	2.73	2.73	2.72	2.71	2.71	2.70	2.69
10.00	2.68	2.67	2.66	2.66	2.65	2.64	2.63	2.62	2.61	2.60
10.20	2.59	2.58	2.57	2.56	2.55	2.54	2.53	2.52	2.51	2.50
10.40	2.49	2.48	2.47	2.46	2.45	2.44	2.44	2.43	2.42	2.41
10.60	2.41	2.40	2.40	2.39	2.39	2.38	2.38	2.38	2.38	2.38
10.80	2.38	2.37	2.37	2.37	2.37	2.37	2.37	2.36	2.36	2.36
11.00	2.35	2.35	2.34	2.34	2.34	2.33	2.32	2.32	2.31	2.31
11.20	2.30	2.29	2.29	2.28	2.28	2.27	2.26	2.26	2.25	2.24
11.40	2.24	2.23	2.22	2.22	2.21	2.20	2.20	2.19	2.18	2.18
11.60	2.17	2.16	2.16	2.15	2.14	2.13	2.12	2.11	2.11	2.10
11.80	2.09	2.08	2.07	2.06	2.06	2.05	2.04	2.04	2.03	2.02
12.00	2.02									

SUBCATCHMENT 3 Basin M - Subbasin 2

PEAK= 13.39 CFS @ 7.93 HRS, VOLUME= 2.15 AF

ACRES	CN		
2.57	98	Paved Streets	SCS TR-20 METHOD
5.49	86	1/5 Acre Res - Group C Soil	TYPE IA 24-HOUR
4.27	72	Forest - Group C Soil	RAINFALL= 6.00 IN
12.33	84		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path - Velocity Method	7.2

SUBCATCHMENT 3 RUNOFF PEAK= 13.39 CFS @ 7.93 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.07	2.09	2.12	2.16	2.20	2.25	2.29	2.32	2.35	2.38
6.20	2.41	2.43	2.46	2.48	2.50	2.52	2.54	2.56	2.58	2.60
6.40	2.62	2.64	2.65	2.67	2.68	2.70	2.71	2.71	2.69	2.66
6.60	2.63	2.61	2.60	2.60	2.60	2.61	2.62	2.64	2.66	2.68
6.80	2.70	2.73	2.75	2.78	2.81	2.84	2.88	2.91	2.95	2.99
7.00	3.03	3.07	3.12	3.16	3.21	3.26	3.31	3.37	3.43	3.48
7.20	3.54	3.61	3.67	3.74	3.81	3.88	3.95	4.03	4.10	4.18
7.40	4.27	4.35	4.44	4.53	4.62	4.72	4.90	5.32	6.13	7.21
7.60	8.32	9.29	10.05	10.64	11.13	11.53	11.87	12.16	12.42	12.64
7.80	12.83	12.99	13.12	13.23	13.31	13.36	13.39	13.39	13.36	13.31
8.00	13.22	13.07	12.72	12.08	11.27	10.45	9.73	9.17	8.73	8.36
8.20	8.05	7.76	7.51	7.28	7.06	6.85	6.66	6.48	6.30	6.14
8.40	5.98	5.84	5.70	5.57	5.45	5.33	5.24	5.19	5.21	5.27
8.60	5.34	5.38	5.39	5.37	5.34	5.30	5.25	5.20	5.15	5.09
8.80	5.03	4.98	4.92	4.87	4.81	4.75	4.70	4.65	4.59	4.54
9.00	4.49	4.44	4.39	4.33	4.28	4.22	4.17	4.12	4.08	4.03
9.20	3.99	3.95	3.91	3.87	3.84	3.80	3.77	3.74	3.71	3.68
9.40	3.65	3.62	3.60	3.58	3.55	3.53	3.52	3.51	3.51	3.52
9.60	3.53	3.54	3.54	3.53	3.52	3.52	3.50	3.49	3.48	3.47
9.80	3.46	3.44	3.43	3.42	3.40	3.39	3.37	3.36	3.35	3.33
10.00	3.32	3.31	3.29	3.27	3.25	3.23	3.21	3.19	3.17	3.16
10.20	3.15	3.13	3.12	3.11	3.10	3.09	3.08	3.07	3.06	3.05
10.40	3.04	3.04	3.03	3.02	3.01	3.01	3.00	3.00	3.01	3.02
10.60	3.04	3.04	3.05	3.05	3.04	3.03	3.03	3.02	3.01	3.00
10.80	2.99	2.99	2.98	2.97	2.96	2.95	2.94	2.93	2.92	2.91
11.00	2.90	2.89	2.88	2.87	2.86	2.85	2.84	2.83	2.83	2.82
11.20	2.81	2.80	2.79	2.78	2.77	2.76	2.75	2.74	2.73	2.72
11.40	2.71	2.70	2.69	2.68	2.67	2.66	2.65	2.64	2.62	2.60
11.60	2.59	2.57	2.56	2.55	2.54	2.53	2.52	2.51	2.51	2.50
11.80	2.49	2.49	2.48	2.48	2.47	2.47	2.47	2.46	2.46	2.46
12.00	2.46									

SUBCATCHMENT 4 Basin O - Subbasin 1

PEAK= 14.52 CFS @ 7.96 HRS, VOLUME= 2.35 AF

ACRES	CN		
1.95	98	Paved Streets	SCS TR-20 METHOD
12.30	80	1/5 Acre Res - Group B Soil	TYPE IA 24-HOUR
14.25	82		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	8.6

SUBCATCHMENT 4 RUNOFF PEAK= 14.52 CFS @ 7.96 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.07	2.10	2.13	2.16	2.20	2.24	2.29	2.33	2.36	2.40
6.20	2.43	2.46	2.49	2.51	2.54	2.57	2.59	2.61	2.64	2.66
6.40	2.68	2.70	2.72	2.74	2.76	2.77	2.79	2.80	2.79	2.78
6.60	2.75	2.73	2.72	2.71	2.71	2.71	2.73	2.74	2.76	2.78
6.80	2.80	2.82	2.85	2.88	2.91	2.94	2.98	3.01	3.05	3.09
7.00	3.14	3.18	3.23	3.28	3.33	3.38	3.43	3.49	3.55	3.61
7.20	3.68	3.74	3.81	3.88	3.95	4.03	4.10	4.18	4.27	4.35
7.40	4.44	4.53	4.62	4.72	4.81	4.92	5.07	5.38	5.96	6.82
7.60	7.84	8.87	9.81	10.60	11.24	11.78	12.24	12.64	12.98	13.29
7.80	13.55	13.78	13.97	14.14	14.27	14.38	14.46	14.50	14.52	14.50
8.00	14.46	14.35	14.10	13.65	13.00	12.23	11.46	10.77	10.18	9.70
8.20	9.29	8.93	8.61	8.33	8.06	7.81	7.58	7.37	7.16	6.97
8.40	6.79	6.62	6.45	6.30	6.16	6.02	5.91	5.82	5.79	5.80
8.60	5.85	5.90	5.93	5.93	5.92	5.88	5.84	5.79	5.74	5.68
8.80	5.62	5.56	5.50	5.44	5.38	5.32	5.26	5.21	5.15	5.09
9.00	5.03	4.98	4.92	4.86	4.80	4.74	4.68	4.63	4.58	4.52
9.20	4.48	4.43	4.39	4.34	4.30	4.26	4.22	4.19	4.15	4.12
9.40	4.09	4.06	4.03	4.00	3.97	3.95	3.93	3.91	3.91	3.91
9.60	3.92	3.92	3.93	3.93	3.92	3.92	3.91	3.89	3.88	3.87
9.80	3.86	3.84	3.83	3.81	3.80	3.79	3.77	3.76	3.74	3.73
10.00	3.71	3.70	3.68	3.66	3.64	3.62	3.60	3.57	3.56	3.54
10.20	3.52	3.51	3.49	3.48	3.47	3.46	3.44	3.43	3.42	3.41
10.40	3.40	3.39	3.39	3.38	3.37	3.36	3.36	3.35	3.36	3.37
10.60	3.38	3.39	3.39	3.40	3.39	3.39	3.38	3.38	3.37	3.36
10.80	3.35	3.34	3.33	3.32	3.31	3.30	3.29	3.28	3.27	3.26
11.00	3.25	3.24	3.23	3.22	3.21	3.20	3.19	3.18	3.17	3.16
11.20	3.15	3.14	3.13	3.12	3.11	3.10	3.09	3.07	3.06	3.05
11.40	3.04	3.03	3.02	3.01	3.00	2.99	2.98	2.96	2.95	2.93
11.60	2.91	2.90	2.88	2.87	2.85	2.84	2.83	2.82	2.82	2.81
11.80	2.80	2.79	2.79	2.78	2.78	2.77	2.77	2.76	2.76	2.76
12.00	2.75									

SUBCATCHMENT 5 Basin O - Subbasin 2

PEAK= 15.92 CFS @ 8.01 HRS, VOLUME= 2.59 AF

ACRES	CN		
2.46	98	Paved Streets	SCS TR-20 METHOD
12.87	80	1/5 Acre Res - Group B Soil	TYPE IA 24-HOUR
15.33	83		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	12.1

SUBCATCHMENT 5 RUNOFF PEAK= 15.92 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.32	2.34	2.37	2.40	2.43	2.47	2.51	2.55	2.60	2.64
6.20	2.68	2.72	2.75	2.78	2.82	2.85	2.88	2.91	2.93	2.96
6.40	2.99	3.01	3.03	3.06	3.08	3.10	3.12	3.14	3.15	3.15
6.60	3.15	3.14	3.12	3.11	3.10	3.09	3.09	3.09	3.10	3.11
6.80	3.13	3.15	3.17	3.19	3.22	3.25	3.28	3.32	3.35	3.39
7.00	3.43	3.48	3.52	3.57	3.62	3.67	3.73	3.78	3.84	3.90
7.20	3.97	4.03	4.10	4.17	4.25	4.32	4.40	4.49	4.57	4.65
7.40	4.75	4.84	4.93	5.03	5.13	5.23	5.35	5.53	5.82	6.26
7.60	6.91	7.70	8.58	9.48	10.35	11.16	11.89	12.50	13.04	13.52
7.80	13.94	14.31	14.64	14.93	15.18	15.39	15.56	15.71	15.81	15.88
8.00	15.92	15.91	15.83	15.64	15.32	14.87	14.29	13.65	13.00	12.36
8.20	11.76	11.22	10.75	10.33	9.94	9.59	9.27	8.97	8.68	8.42
8.40	8.17	7.94	7.72	7.51	7.32	7.14	6.97	6.82	6.70	6.61
8.60	6.56	6.54	6.54	6.54	6.54	6.53	6.51	6.48	6.43	6.39
8.80	6.33	6.28	6.22	6.15	6.09	6.03	5.96	5.90	5.83	5.77
9.00	5.70	5.64	5.58	5.52	5.45	5.39	5.32	5.26	5.20	5.14
9.20	5.08	5.02	4.97	4.91	4.86	4.81	4.77	4.72	4.68	4.64
9.40	4.60	4.56	4.52	4.49	4.45	4.42	4.39	4.37	4.34	4.33
9.60	4.32	4.32	4.31	4.32	4.31	4.31	4.30	4.30	4.29	4.28
9.80	4.26	4.25	4.24	4.22	4.21	4.19	4.18	4.16	4.15	4.13
10.00	4.11	4.10	4.08	4.06	4.04	4.02	4.00	3.98	3.96	3.93
10.20	3.92	3.90	3.88	3.86	3.85	3.83	3.81	3.80	3.79	3.78
10.40	3.76	3.75	3.74	3.73	3.72	3.71	3.70	3.69	3.69	3.69
10.60	3.69	3.70	3.70	3.71	3.71	3.71	3.71	3.71	3.70	3.70
10.80	3.69	3.68	3.67	3.66	3.65	3.64	3.63	3.62	3.61	3.60
11.00	3.59	3.58	3.57	3.56	3.55	3.53	3.52	3.51	3.50	3.49
11.20	3.48	3.47	3.45	3.44	3.43	3.42	3.41	3.39	3.38	3.37
11.40	3.36	3.35	3.34	3.33	3.31	3.30	3.29	3.28	3.26	3.25
11.60	3.23	3.22	3.20	3.18	3.16	3.15	3.13	3.12	3.11	3.10
11.80	3.09	3.08	3.07	3.06	3.05	3.05	3.04	3.04	3.03	3.03
12.00	3.02									

SUBCATCHMENT 6 Basin O - Subbasin 3

PEAK= 24.78 CFS @ 8.02 HRS, VOLUME= 4.20 AF

ACRES	CN		
2.22	98	Paved Streets	SCS TR-20 METHOD
10.20	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
47.29	58	Forest - Group B Soil	RAINFALL= 6.00 IN
59.71	62		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	8.3

SUBCATCHMENT 6 RUNOFF PEAK= 24.78 CFS @ 8.02 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	0.00	0.00	.01	.02	.04	.07	.11	.15	.19	.24
6.20	.29	.34	.39	.44	.49	.54	.60	.65	.71	.76
6.40	.81	.87	.92	.98	1.03	1.09	1.14	1.19	1.23	1.27
6.60	1.30	1.33	1.36	1.40	1.44	1.49	1.53	1.58	1.63	1.68
6.80	1.73	1.79	1.84	1.90	1.96	2.02	2.09	2.16	2.23	2.30
7.00	2.37	2.45	2.53	2.61	2.70	2.79	2.88	2.97	3.07	3.17
7.20	3.28	3.39	3.51	3.63	3.75	3.88	4.01	4.15	4.29	4.43
7.40	4.59	4.75	4.91	5.08	5.25	5.44	5.70	6.17	7.01	8.23
7.60	9.67	11.14	12.51	13.73	14.80	15.79	16.70	17.56	18.37	19.14
7.80	19.87	20.56	21.21	21.81	22.38	22.90	23.36	23.78	24.14	24.44
8.00	24.67	24.77	24.60	24.00	22.97	21.74	20.51	19.42	18.54	17.82
8.20	17.20	16.66	16.18	15.74	15.34	14.95	14.59	14.25	13.92	13.61
8.40	13.32	13.03	12.77	12.51	12.28	12.05	11.86	11.74	11.73	11.83
8.60	11.98	12.12	12.22	12.26	12.25	12.21	12.16	12.09	12.01	11.92
8.80	11.83	11.73	11.63	11.54	11.44	11.34	11.24	11.14	11.04	10.94
9.00	10.84	10.74	10.64	10.54	10.43	10.32	10.22	10.12	10.02	9.93
9.20	9.84	9.76	9.68	9.61	9.53	9.46	9.39	9.33	9.27	9.21
9.40	9.15	9.10	9.05	9.00	8.96	8.92	8.88	8.86	8.87	8.89
9.60	8.93	8.96	8.98	8.99	8.99	8.98	8.97	8.96	8.94	8.92
9.80	8.90	8.88	8.86	8.84	8.82	8.80	8.77	8.75	8.73	8.70
10.00	8.68	8.65	8.63	8.59	8.55	8.51	8.47	8.43	8.39	8.36
10.20	8.34	8.31	8.29	8.27	8.25	8.23	8.21	8.19	8.18	8.16
10.40	8.15	8.13	8.12	8.11	8.10	8.09	8.09	8.09	8.11	8.14
10.60	8.18	8.21	8.23	8.25	8.25	8.25	8.24	8.23	8.22	8.20
10.80	8.19	8.17	8.16	8.14	8.12	8.11	8.09	8.07	8.06	8.04
11.00	8.02	8.00	7.98	7.96	7.94	7.93	7.91	7.89	7.87	7.85
11.20	7.83	7.81	7.79	7.77	7.75	7.73	7.71	7.69	7.67	7.65
11.40	7.63	7.61	7.59	7.57	7.55	7.52	7.50	7.47	7.44	7.40
11.60	7.36	7.32	7.28	7.26	7.23	7.21	7.19	7.17	7.15	7.14
11.80	7.13	7.11	7.10	7.09	7.08	7.08	7.07	7.07	7.06	7.06
12.00	7.06									

SUBCATCHMENT 7 Basin O - Subbasin 4

PEAK= 11.54 CFS @ 7.94 HRS, VOLUME= 1.87 AF

ACRES	CN		
2.69	98	Paved Streets	SCS TR-20 METHOD
10.67	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
13.36	77		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.0

SUBCATCHMENT 7 RUNOFF PEAK= 11.54 CFS @ 7.94 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.37	1.39	1.42	1.45	1.49	1.52	1.55	1.58	1.60	1.63
6.20	1.65	1.67	1.69	1.71	1.73	1.75	1.77	1.79	1.81	1.83
6.40	1.85	1.86	1.88	1.90	1.91	1.93	1.94	1.93	1.91	1.89
6.60	1.88	1.87	1.87	1.88	1.89	1.91	1.92	1.94	1.96	1.98
6.80	2.00	2.03	2.05	2.08	2.11	2.14	2.17	2.20	2.24	2.27
7.00	2.31	2.35	2.39	2.43	2.47	2.52	2.57	2.61	2.66	2.72
7.20	2.77	2.83	2.88	2.94	3.00	3.07	3.13	3.20	3.27	3.34
7.40	3.41	3.49	3.57	3.65	3.73	3.82	4.03	4.59	5.53	6.58
7.60	7.51	8.20	8.73	9.16	9.52	9.83	10.11	10.35	10.57	10.77
7.80	10.94	11.10	11.23	11.33	11.42	11.48	11.52	11.54	11.53	11.50
8.00	11.44	11.27	10.83	10.08	9.26	8.56	8.05	7.66	7.35	7.09
8.20	6.86	6.65	6.46	6.28	6.11	5.94	5.79	5.64	5.50	5.37
8.40	5.24	5.12	5.01	4.90	4.80	4.71	4.65	4.65	4.72	4.81
8.60	4.88	4.90	4.89	4.87	4.83	4.79	4.74	4.69	4.64	4.59
8.80	4.55	4.50	4.45	4.40	4.35	4.30	4.26	4.21	4.16	4.12
9.00	4.08	4.03	3.98	3.94	3.89	3.84	3.80	3.76	3.72	3.68
9.20	3.64	3.61	3.58	3.55	3.52	3.49	3.46	3.43	3.41	3.38
9.40	3.36	3.34	3.32	3.30	3.28	3.26	3.25	3.25	3.26	3.28
9.60	3.29	3.29	3.29	3.29	3.28	3.27	3.26	3.25	3.24	3.23
9.80	3.21	3.20	3.19	3.18	3.17	3.16	3.15	3.13	3.12	3.11
10.00	3.10	3.08	3.07	3.05	3.03	3.01	2.99	2.98	2.97	2.96
10.20	2.94	2.93	2.92	2.92	2.91	2.90	2.89	2.88	2.87	2.87
10.40	2.86	2.85	2.85	2.84	2.84	2.83	2.83	2.84	2.85	2.87
10.60	2.88	2.88	2.88	2.88	2.87	2.87	2.86	2.85	2.85	2.84
10.80	2.83	2.82	2.81	2.81	2.80	2.79	2.78	2.77	2.76	2.76
11.00	2.75	2.74	2.73	2.72	2.71	2.71	2.70	2.69	2.68	2.67
11.20	2.66	2.65	2.65	2.64	2.63	2.62	2.61	2.60	2.59	2.59
11.40	2.58	2.57	2.56	2.55	2.54	2.53	2.52	2.51	2.49	2.47
11.60	2.46	2.45	2.44	2.43	2.42	2.41	2.40	2.40	2.39	2.39
11.80	2.38	2.38	2.37	2.37	2.37	2.36	2.36	2.36	2.36	2.36
12.00	2.36									

SUBCATCHMENT 8 Basin P

PEAK= 44.97 CFS @ 9.18 HRS, VOLUME= 11.30 AF

ACRES	CN		
1.56	89	Paved Streets	
7.57	75	1/4 Acre Res - Group B Soil	
145.87	65	Forest/Brush - Group B Soil	
155.00	66		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	90.0

SUBCATCHMENT 8 RUNOFF PEAK= 44.97 CFS @ 9.18 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.08	.10	.11	.12	.13	.15	.17	.19	.21	.23
6.20	.25	.28	.30	.33	.36	.39	.43	.46	.50	.53
6.40	.58	.62	.67	.71	.76	.81	.87	.92	.98	1.04
6.60	1.10	1.17	1.24	1.30	1.37	1.44	1.52	1.60	1.68	1.75
6.80	1.84	1.92	2.01	2.10	2.19	2.28	2.38	2.47	2.57	2.66
7.00	2.76	2.87	2.97	3.07	3.18	3.28	3.39	3.50	3.61	3.72
7.20	3.83	3.95	4.07	4.19	4.30	4.42	4.55	4.67	4.79	4.91
7.40	5.04	5.18	5.31	5.45	5.58	5.72	5.87	6.01	6.16	6.30
7.60	6.46	6.64	6.81	6.99	7.17	7.36	7.57	7.78	8.00	8.21
7.80	8.45	8.74	9.02	9.31	9.59	9.92	10.29	10.66	11.03	11.40
8.00	11.82	12.31	12.80	13.29	13.77	14.33	14.95	15.57	16.19	16.81
8.20	17.48	18.21	18.94	19.67	20.40	21.18	22.00	22.82	23.65	24.47
8.40	25.31	26.17	27.03	27.88	28.74	29.59	30.42	31.26	32.09	32.93
8.60	33.72	34.47	35.23	35.98	36.73	37.40	38.00	38.59	39.19	39.78
8.80	40.32	40.80	41.29	41.77	42.25	42.63	42.92	43.20	43.49	43.77
9.00	44.01	44.21	44.40	44.60	44.79	44.90	44.92	44.94	44.95	44.97
9.20	44.96	44.91	44.86	44.82	44.77	44.66	44.50	44.33	44.17	44.00
9.40	43.82	43.62	43.43	43.23	43.04	42.81	42.55	42.29	42.03	41.76
9.60	41.51	41.27	41.02	40.78	40.53	40.28	40.02	39.76	39.50	39.24
9.80	39.00	38.77	38.54	38.30	38.07	37.83	37.59	37.35	37.10	36.86
10.00	36.63	36.42	36.20	35.99	35.78	35.56	35.34	35.12	34.90	34.68
10.20	34.47	34.28	34.09	33.89	33.70	33.51	33.31	33.11	32.92	32.72
10.40	32.54	32.38	32.21	32.05	31.89	31.72	31.55	31.38	31.21	31.04
10.60	30.89	30.75	30.62	30.48	30.34	30.20	30.06	29.91	29.76	29.62
10.80	29.49	29.38	29.26	29.15	29.04	28.92	28.80	28.67	28.55	28.43
11.00	28.32	28.23	28.14	28.04	27.95	27.85	27.75	27.65	27.55	27.44
11.20	27.35	27.28	27.20	27.13	27.05	26.97	26.88	26.80	26.71	26.62
11.40	26.55	26.49	26.43	26.36	26.30	26.23	26.15	26.08	26.00	25.93
11.60	25.86	25.81	25.75	25.70	25.64	25.58	25.51	25.44	25.37	25.30
11.80	25.23	25.18	25.13	25.08	25.03	24.97	24.90	24.83	24.76	24.69
12.00	24.63									

SUBCATCHMENT 9 Basin Q

PEAK= 43.19 CFS @ 9.10 HRS, VOLUME= 10.90 AF

ACRES	CN	
1.62	89	Paved Streets
9.53	75	1/4 Acre Res - Group B Soil
3.80	61	Grass Fields
4.58	92	School
106.90	67	Undeveloped
126.43	69	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	90.0

SUBCATCHMENT 9 RUNOFF PEAK= 43.19 CFS @ 9.10 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.57	.61	.65	.69	.73	.78	.83	.87	.92	.97
6.20	1.02	1.07	1.13	1.19	1.24	1.30	1.36	1.42	1.49	1.55
6.40	1.62	1.69	1.76	1.83	1.90	1.97	2.05	2.13	2.21	2.29
6.60	2.37	2.45	2.54	2.63	2.71	2.80	2.89	2.99	3.08	3.17
6.80	3.27	3.37	3.46	3.56	3.66	3.76	3.87	3.97	4.07	4.17
7.00	4.28	4.39	4.50	4.60	4.71	4.82	4.93	5.04	5.15	5.26
7.20	5.37	5.49	5.60	5.72	5.84	5.95	6.07	6.19	6.31	6.42
7.40	6.55	6.68	6.81	6.93	7.06	7.20	7.33	7.47	7.60	7.74
7.60	7.89	8.06	8.23	8.40	8.56	8.75	8.95	9.15	9.34	9.54
7.80	9.78	10.05	10.32	10.59	10.86	11.17	11.52	11.87	12.23	12.58
8.00	12.98	13.45	13.91	14.38	14.84	15.37	15.95	16.54	17.13	17.72
8.20	18.36	19.05	19.74	20.43	21.11	21.85	22.62	23.39	24.17	24.94
8.40	25.73	26.53	27.32	28.12	28.92	29.71	30.48	31.25	32.02	32.79
8.60	33.51	34.20	34.89	35.57	36.26	36.86	37.39	37.92	38.45	38.98
8.80	39.45	39.87	40.29	40.71	41.13	41.45	41.68	41.91	42.14	42.37
9.00	42.55	42.70	42.84	42.98	43.13	43.19	43.16	43.14	43.12	43.09
9.20	43.04	42.95	42.87	42.79	42.70	42.56	42.37	42.17	41.98	41.79
9.40	41.58	41.36	41.14	40.92	40.70	40.45	40.18	39.90	39.63	39.35
9.60	39.08	38.83	38.57	38.31	38.05	37.79	37.52	37.26	36.99	36.72
9.80	36.47	36.23	35.99	35.75	35.52	35.27	35.03	34.78	34.53	34.28
10.00	34.05	33.84	33.62	33.40	33.19	32.97	32.74	32.52	32.30	32.08
10.20	31.87	31.68	31.49	31.29	31.10	30.91	30.71	30.51	30.32	30.12
10.40	29.94	29.78	29.62	29.45	29.29	29.12	28.96	28.79	28.62	28.45
10.60	28.30	28.16	28.03	27.89	27.75	27.61	27.47	27.33	27.18	27.04
10.80	26.91	26.80	26.69	26.57	26.46	26.34	26.22	26.10	25.98	25.86
11.00	25.75	25.66	25.57	25.48	25.38	25.29	25.19	25.09	24.98	24.88
11.20	24.80	24.72	24.64	24.57	24.49	24.41	24.33	24.24	24.16	24.07
11.40	24.00	23.94	23.87	23.81	23.75	23.68	23.60	23.53	23.45	23.38
11.60	23.31	23.26	23.20	23.15	23.10	23.03	22.96	22.90	22.83	22.76
11.80	22.70	22.65	22.59	22.54	22.49	22.43	22.37	22.30	22.23	22.17
12.00	22.11									

SUBCATCHMENT 10 Basin R

PEAK= 21.34 CFS @ 9.10 HRS, VOLUME= 5.40 AF

ACRES	CN		
2.70	89	Paved Streets	
17.00	75	1/4 Acre Res - Group B Soil	
14.00	69	Park	
25.70	66	Undeveloped	
59.40	70		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	90.0

SUBCATCHMENT 10 RUNOFF PEAK= 21.34 CFS @ 9.10 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.42	.45	.47	.50	.52	.55	.57	.60	.63	.65
6.20	.68	.71	.75	.78	.81	.84	.87	.91	.94	.97
6.40	1.01	1.05	1.09	1.12	1.16	1.20	1.24	1.28	1.32	1.36
6.60	1.40	1.45	1.49	1.54	1.58	1.63	1.67	1.72	1.77	1.81
6.80	1.86	1.91	1.96	2.01	2.06	2.11	2.16	2.22	2.27	2.32
7.00	2.37	2.42	2.48	2.53	2.59	2.64	2.69	2.75	2.80	2.86
7.20	2.91	2.97	3.03	3.08	3.14	3.20	3.26	3.31	3.37	3.43
7.40	3.49	3.55	3.62	3.68	3.74	3.81	3.88	3.94	4.01	4.07
7.60	4.15	4.23	4.31	4.40	4.48	4.57	4.67	4.76	4.86	4.96
7.80	5.07	5.21	5.34	5.47	5.61	5.76	5.93	6.11	6.28	6.45
8.00	6.65	6.88	7.11	7.34	7.57	7.82	8.11	8.40	8.69	8.98
8.20	9.29	9.63	9.97	10.31	10.65	11.01	11.39	11.77	12.15	12.53
8.40	12.91	13.30	13.69	14.09	14.48	14.86	15.24	15.61	15.99	16.36
8.60	16.72	17.05	17.38	17.72	18.05	18.34	18.60	18.85	19.11	19.36
8.80	19.59	19.79	19.99	20.19	20.39	20.55	20.65	20.76	20.87	20.97
9.00	21.06	21.12	21.19	21.25	21.32	21.34	21.32	21.31	21.29	21.27
9.20	21.24	21.19	21.14	21.10	21.05	20.98	20.87	20.77	20.67	20.57
9.40	20.47	20.35	20.24	20.13	20.01	19.89	19.75	19.61	19.47	19.33
9.60	19.19	19.06	18.93	18.80	18.67	18.54	18.40	18.27	18.14	18.00
9.80	17.87	17.75	17.63	17.51	17.39	17.27	17.15	17.02	16.90	16.77
10.00	16.66	16.55	16.44	16.33	16.22	16.11	16.00	15.89	15.78	15.67
10.20	15.57	15.47	15.37	15.28	15.18	15.08	14.99	14.89	14.79	14.69
10.40	14.60	14.52	14.44	14.36	14.28	14.19	14.11	14.03	13.94	13.86
10.60	13.78	13.71	13.65	13.58	13.51	13.44	13.37	13.30	13.23	13.15
10.80	13.09	13.03	12.98	12.92	12.87	12.81	12.75	12.69	12.63	12.57
11.00	12.51	12.47	12.42	12.38	12.33	12.28	12.23	12.18	12.13	12.08
11.20	12.04	12.00	11.96	11.92	11.89	11.85	11.80	11.76	11.72	11.68
11.40	11.64	11.61	11.58	11.55	11.51	11.48	11.44	11.41	11.37	11.33
11.60	11.30	11.27	11.24	11.22	11.19	11.16	11.12	11.09	11.06	11.02
11.80	10.99	10.97	10.94	10.92	10.89	10.86	10.83	10.79	10.76	10.73
12.00	10.70									

SUBCATCHMENT 1 Basin S

PEAK= 140.9 CFS @ 8.05 HRS, VOLUME= 23.51 AF

ACRES	CN		SCS TR-20 METHOD
90.48	85	1/8 Acre Res - Group B Soil	TYPE IA 24-HOUR
14.61	89	Paved Streets w/ Ditches	RAINFALL= 6.00 IN
30.34	65	Forest/Meadow/Wetlands	SPAN= 6-12 HRS, dt=.02 HRS
4.98	92	Commercial	
1.44	85	Gravel Lot	
3.80	88	School/Industrial	
2.16	61	Park	
147.81	81		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	16.1

SUBCATCHMENT 1 RUNOFF PEAK= 140.9 CFS @ 8.05 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	18.8	19.0	19.2	19.5	19.7	20.0	20.3	20.6	21.0	21.3
6.20	21.6	22.0	22.3	22.6	23.0	23.3	23.6	23.9	24.1	24.4
6.40	24.7	24.9	25.2	25.4	25.7	25.9	26.1	26.3	26.5	26.6
6.60	26.7	26.8	26.8	26.8	26.8	26.8	26.7	26.7	26.7	26.8
6.80	26.9	27.0	27.1	27.3	27.5	27.6	27.9	28.1	28.4	28.7
7.00	29.0	29.3	29.7	30.1	30.4	30.9	31.3	31.7	32.2	32.7
7.20	33.2	33.7	34.3	34.9	35.5	36.1	36.8	37.4	38.1	38.9
7.40	39.6	40.3	41.1	41.9	42.8	43.6	44.6	45.8	47.4	49.6
7.60	52.6	56.5	61.4	67.1	73.3	79.8	86.2	92.7	98.7	104.4
7.80	109.6	114.2	118.4	122.1	125.6	128.6	131.4	133.7	135.8	137.6
8.00	139.0	140.1	140.7	140.8	140.1	138.8	136.4	133.3	129.5	125.1
8.20	120.7	116.0	111.5	107.0	102.8	99.0	95.4	92.2	89.0	86.2
8.40	83.4	80.9	78.5	76.2	74.0	72.0	70.1	68.3	66.8	65.3
8.60	64.2	63.2	62.5	61.9	61.5	61.2	60.9	60.6	60.3	60.0
8.80	59.6	59.1	58.7	58.1	57.7	57.1	56.6	56.0	55.4	54.9
9.00	54.3	53.7	53.1	52.6	52.0	51.4	50.8	50.3	49.7	49.1
9.20	48.6	48.0	47.5	47.0	46.5	46.0	45.5	45.1	44.6	44.2
9.40	43.8	43.4	43.0	42.6	42.3	41.9	41.6	41.3	41.1	40.8
9.60	40.6	40.5	40.3	40.2	40.2	40.1	40.0	40.0	39.9	39.9
9.80	39.8	39.7	39.6	39.4	39.3	39.2	39.1	38.9	38.8	38.7
10.00	38.5	38.4	38.2	38.1	37.9	37.8	37.6	37.4	37.3	37.1
10.20	36.9	36.7	36.5	36.3	36.2	36.0	35.9	35.7	35.6	35.5
10.40	35.3	35.2	35.1	35.0	34.9	34.8	34.7	34.6	34.5	34.5
10.60	34.4	34.4	34.4	34.4	34.4	34.5	34.5	34.5	34.5	34.5
10.80	34.4	34.4	34.3	34.2	34.2	34.1	34.0	33.9	33.9	33.8
11.00	33.7	33.6	33.5	33.4	33.3	33.2	33.1	33.0	32.9	32.8
11.20	32.7	32.6	32.5	32.4	32.3	32.2	32.1	32.0	31.8	31.7
11.40	31.6	31.5	31.4	31.3	31.2	31.1	31.0	30.9	30.8	30.6
11.60	30.5	30.4	30.2	30.1	30.0	29.8	29.7	29.5	29.4	29.3
11.80	29.2	29.1	29.0	28.9	28.8	28.7	28.6	28.5	28.5	28.4

SUBCATCHMENT 2 Basin S - Subbasin 1

PEAK= 14.84 CFS @ 7.96 HRS, VOLUME= 2.42 AF

ACRES	CN		
3.09	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
15.45	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
18.54	75		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.1

SUBCATCHMENT 2 RUNOFF PEAK= 14.84 CFS @ 7.96 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.59	1.62	1.65	1.69	1.74	1.78	1.82	1.85	1.88	1.91
6.20	1.94	1.97	2.00	2.03	2.05	2.08	2.11	2.13	2.15	2.18
6.40	2.20	2.23	2.25	2.27	2.29	2.31	2.33	2.33	2.31	2.28
6.60	2.26	2.26	2.26	2.28	2.29	2.31	2.33	2.36	2.38	2.41
6.80	2.44	2.47	2.50	2.54	2.57	2.61	2.65	2.69	2.74	2.78
7.00	2.83	2.88	2.93	2.99	3.04	3.10	3.16	3.22	3.29	3.35
7.20	3.42	3.49	3.57	3.64	3.72	3.80	3.89	3.97	4.06	4.16
7.40	4.25	4.35	4.45	4.55	4.66	4.78	5.03	5.70	6.86	8.18
7.60	9.36	10.27	10.96	11.53	12.00	12.42	12.79	13.12	13.42	13.69
7.80	13.94	14.15	14.34	14.49	14.63	14.72	14.80	14.83	14.84	14.81
8.00	14.75	14.55	14.02	13.09	12.06	11.15	10.48	9.98	9.57	9.23
8.20	8.93	8.66	8.41	8.18	7.96	7.75	7.55	7.36	7.18	7.01
8.40	6.84	6.69	6.54	6.40	6.28	6.16	6.07	6.07	6.16	6.28
8.60	6.37	6.40	6.39	6.36	6.32	6.26	6.21	6.15	6.08	6.02
8.80	5.96	5.89	5.83	5.77	5.71	5.65	5.59	5.53	5.47	5.41
9.00	5.35	5.30	5.23	5.17	5.11	5.05	4.99	4.94	4.89	4.84
9.20	4.79	4.75	4.71	4.67	4.63	4.59	4.55	4.52	4.48	4.45
9.40	4.42	4.39	4.37	4.34	4.32	4.30	4.28	4.28	4.30	4.32
9.60	4.34	4.34	4.34	4.33	4.32	4.31	4.30	4.29	4.27	4.26
9.80	4.24	4.23	4.21	4.20	4.18	4.17	4.15	4.14	4.12	4.11
10.00	4.09	4.08	4.05	4.03	4.00	3.98	3.96	3.94	3.92	3.91
10.20	3.90	3.88	3.87	3.86	3.85	3.83	3.82	3.81	3.81	3.79
10.40	3.79	3.78	3.77	3.76	3.76	3.75	3.75	3.76	3.78	3.80
10.60	3.81	3.82	3.82	3.82	3.81	3.80	3.79	3.78	3.77	3.76
10.80	3.75	3.74	3.73	3.72	3.71	3.70	3.69	3.68	3.67	3.66
11.00	3.65	3.64	3.63	3.61	3.60	3.59	3.58	3.57	3.56	3.55
11.20	3.54	3.53	3.52	3.50	3.49	3.48	3.47	3.46	3.45	3.44
11.40	3.43	3.41	3.40	3.39	3.38	3.37	3.35	3.34	3.31	3.29
11.60	3.27	3.25	3.24	3.23	3.22	3.21	3.20	3.19	3.18	3.18
11.80	3.17	3.16	3.16	3.15	3.15	3.15	3.14	3.14	3.14	3.14
12.00	3.14									

SUBCATCHMENT 3 Basin T

PEAK= 57.88 CFS @ 8.03 HRS, VOLUME= 9.74 AF

ACRES	CN		
7.72	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
47.79	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
50.14	58	Forest	RAINFALL= 6.00 IN
105.65	67		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	11.1

SUBCATCHMENT 3 RUNOFF PEAK= 57.88 CFS @ 8.03 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.59	2.68	2.78	2.88	3.00	3.11	3.24	3.37	3.49	3.62
6.20	3.75	3.87	3.99	4.11	4.23	4.35	4.47	4.59	4.71	4.82
6.40	4.94	5.05	5.17	5.28	5.39	5.50	5.61	5.71	5.80	5.87
6.60	5.92	5.96	5.99	6.03	6.07	6.13	6.19	6.27	6.36	6.45
6.80	6.55	6.65	6.77	6.89	7.01	7.14	7.28	7.42	7.57	7.73
7.00	7.89	8.06	8.23	8.42	8.61	8.80	9.01	9.22	9.44	9.67
7.20	9.91	10.15	10.41	10.68	10.95	11.24	11.53	11.83	12.15	12.48
7.40	12.81	13.16	13.52	13.89	14.28	14.67	15.13	15.83	16.96	18.73
7.60	21.18	24.08	27.19	30.29	33.29	36.03	38.46	40.66	42.69	44.59
7.80	46.35	47.98	49.49	50.88	52.17	53.35	54.41	55.35	56.16	56.85
8.00	57.43	57.80	57.83	57.36	56.24	54.52	52.37	50.01	47.66	45.45
8.20	43.49	41.79	40.30	38.94	37.71	36.57	35.52	34.54	33.61	32.73
8.40	31.90	31.13	30.39	29.69	29.02	28.40	27.84	27.36	27.01	26.81
8.60	26.77	26.84	26.96	27.08	27.15	27.16	27.10	27.00	26.86	26.69
8.80	26.50	26.30	26.09	25.87	25.65	25.41	25.18	24.95	24.72	24.48
9.00	24.25	24.01	23.78	23.55	23.31	23.07	22.82	22.57	22.34	22.12
9.20	21.89	21.68	21.48	21.28	21.10	20.92	20.74	20.58	20.42	20.27
9.40	20.12	19.98	19.84	19.72	19.60	19.49	19.39	19.30	19.23	19.21
9.60	19.21	19.23	19.26	19.28	19.30	19.30	19.29	19.27	19.23	19.20
9.80	19.16	19.12	19.07	19.02	18.97	18.92	18.87	18.81	18.76	18.70
10.00	18.64	18.59	18.53	18.45	18.38	18.30	18.21	18.13	18.04	17.95
10.20	17.88	17.81	17.75	17.69	17.63	17.57	17.52	17.48	17.43	17.39
10.40	17.34	17.31	17.27	17.24	17.21	17.17	17.15	17.14	17.14	17.15
10.60	17.18	17.23	17.28	17.32	17.35	17.36	17.36	17.35	17.34	17.32
10.80	17.29	17.26	17.22	17.19	17.16	17.12	17.08	17.04	17.00	16.96
11.00	16.92	16.87	16.83	16.79	16.75	16.70	16.66	16.61	16.57	16.53
11.20	16.48	16.44	16.39	16.34	16.30	16.26	16.21	16.16	16.11	16.07
11.40	16.03	15.98	15.93	15.88	15.83	15.79	15.74	15.69	15.62	15.56
11.60	15.48	15.41	15.33	15.25	15.18	15.12	15.07	15.02	14.97	14.93
11.80	14.89	14.86	14.82	14.79	14.76	14.74	14.72	14.70	14.69	14.67
12.00	14.66									

SUBCATCHMENT 4 Basin U

PEAK= 20.86 CFS @ 8.07 HRS, VOLUME= 3.67 AF

ACRES	CN		
1.62	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
10.00	68	1 Acre Res - Group B Soil	TYPE IA 24-HOUR
44.61	58	Forest	RAINFALL= 6.00 IN
56.23	61		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.6

SUBCATCHMENT 4 RUNOFF PEAK= 20.86 CFS @ 8.07 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.20	0.00	.01	.02	.03	.04	.07	.09	.12	.16	.19
6.40	.23	.28	.32	.36	.41	.46	.50	.55	.60	.64
6.60	.68	.73	.76	.80	.84	.88	.92	.96	1.00	1.04
6.80	1.08	1.13	1.17	1.22	1.27	1.32	1.37	1.42	1.48	1.53
7.00	1.59	1.65	1.71	1.77	1.84	1.91	1.98	2.05	2.13	2.21
7.20	2.29	2.37	2.46	2.55	2.64	2.74	2.84	2.95	3.06	3.17
7.40	3.29	3.41	3.53	3.66	3.80	3.94	4.09	4.29	4.56	4.94
7.60	5.47	6.15	6.95	7.84	8.77	9.72	10.66	11.58	12.43	13.25
7.80	14.04	14.79	15.51	16.21	16.86	17.49	18.08	18.62	19.14	19.62
8.00	20.03	20.41	20.69	20.83	20.84	20.65	20.26	19.75	19.13	18.46
8.20	17.80	17.16	16.55	16.01	15.52	15.07	14.65	14.26	13.88	13.54
8.40	13.20	12.88	12.59	12.30	12.03	11.78	11.54	11.32	11.15	11.00
8.60	10.91	10.87	10.86	10.87	10.89	10.90	10.91	10.91	10.89	10.85
8.80	10.81	10.75	10.68	10.62	10.54	10.47	10.40	10.31	10.23	10.15
9.00	10.06	9.98	9.90	9.81	9.73	9.64	9.55	9.46	9.37	9.28
9.20	9.20	9.11	9.03	8.95	8.88	8.80	8.73	8.67	8.60	8.54
9.40	8.48	8.42	8.37	8.31	8.26	8.22	8.17	8.13	8.10	8.08
9.60	8.06	8.06	8.06	8.07	8.08	8.08	8.08	8.09	8.09	8.08
9.80	8.07	8.06	8.05	8.04	8.02	8.00	7.99	7.97	7.95	7.94
10.00	7.91	7.89	7.88	7.85	7.83	7.80	7.77	7.74	7.71	7.68
10.20	7.65	7.62	7.59	7.57	7.55	7.52	7.50	7.49	7.46	7.45
10.40	7.43	7.42	7.40	7.39	7.38	7.37	7.36	7.35	7.34	7.35
10.60	7.35	7.37	7.38	7.39	7.41	7.43	7.43	7.44	7.45	7.44
10.80	7.44	7.43	7.42	7.42	7.41	7.39	7.38	7.37	7.35	7.34
11.00	7.33	7.31	7.30	7.28	7.27	7.25	7.24	7.22	7.20	7.19
11.20	7.17	7.16	7.14	7.12	7.10	7.08	7.07	7.05	7.03	7.01
11.40	7.00	6.98	6.96	6.94	6.92	6.90	6.89	6.87	6.84	6.82
11.60	6.79	6.77	6.74	6.71	6.68	6.65	6.63	6.60	6.58	6.56
11.80	6.54	6.53	6.51	6.50	6.49	6.47	6.46	6.46	6.45	6.44
12.00	6.44									

TYPE IA 24-HOUR RAINFALL= 5.50 IN
Prepared by HBH Consulting Engineers, Inc. 5 Jan 06
HydroCAD 5.11 001354 (c) 1986-1999 Applied Microcomputer Systems

SUBCATCHMENT 1 Basin A

PEAK= 11.83 CFS @ 8.01 HRS, VOLUME= 1.95 AF

ACRES	CN		
3.07	98	Paved Streets	SCS TR-20 METHOD
14.38	70	0.20 Acre Res - Group A Soil	TYPE IA 24-HOUR
17.45	75		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.5

SUBCATCHMENT 1 RUNOFF PEAK= 11.83 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.09	1.11	1.13	1.16	1.18	1.21	1.24	1.27	1.30	1.33
6.20	1.35	1.38	1.40	1.43	1.45	1.47	1.50	1.52	1.54	1.56
6.40	1.58	1.60	1.63	1.65	1.66	1.68	1.70	1.72	1.73	1.73
6.60	1.73	1.73	1.73	1.73	1.73	1.73	1.74	1.76	1.77	1.79
6.80	1.80	1.82	1.85	1.87	1.89	1.92	1.95	1.97	2.00	2.04
7.00	2.07	2.10	2.14	2.18	2.22	2.26	2.30	2.35	2.39	2.44
7.20	2.49	2.54	2.59	2.65	2.71	2.76	2.83	2.89	2.95	3.02
7.40	3.09	3.16	3.24	3.31	3.39	3.47	3.58	3.74	4.02	4.46
7.60	5.04	5.71	6.41	7.08	7.70	8.24	8.71	9.13	9.51	9.85
7.80	10.16	10.44	10.70	10.92	11.12	11.30	11.46	11.58	11.69	11.77
8.00	11.82	11.83	11.77	11.60	11.29	10.85	10.34	9.80	9.30	8.84
8.20	8.44	8.10	7.81	7.53	7.29	7.06	6.85	6.65	6.46	6.29
8.40	6.12	5.97	5.82	5.68	5.55	5.43	5.32	5.22	5.16	5.13
8.60	5.13	5.15	5.17	5.19	5.20	5.19	5.17	5.14	5.11	5.07
8.80	5.03	4.98	4.94	4.89	4.84	4.79	4.75	4.70	4.65	4.60
9.00	4.56	4.51	4.46	4.41	4.37	4.32	4.27	4.22	4.17	4.13
9.20	4.08	4.04	4.00	3.96	3.93	3.89	3.86	3.83	3.79	3.76
9.40	3.74	3.71	3.68	3.66	3.63	3.61	3.59	3.57	3.56	3.56
9.60	3.56	3.56	3.57	3.57	3.57	3.57	3.56	3.56	3.55	3.54
9.80	3.53	3.52	3.51	3.50	3.49	3.48	3.47	3.46	3.44	3.43
10.00	3.42	3.41	3.40	3.38	3.37	3.35	3.33	3.31	3.30	3.28
10.20	3.27	3.25	3.24	3.23	3.22	3.21	3.20	3.19	3.18	3.17
10.40	3.16	3.15	3.14	3.14	3.13	3.12	3.12	3.11	3.11	3.12
10.60	3.13	3.13	3.14	3.15	3.15	3.15	3.15	3.15	3.14	3.14
10.80	3.13	3.12	3.12	3.11	3.10	3.09	3.09	3.08	3.07	3.06
11.00	3.05	3.04	3.04	3.03	3.02	3.01	3.00	2.99	2.98	2.97
11.20	2.96	2.96	2.95	2.94	2.93	2.92	2.91	2.90	2.89	2.88
11.40	2.87	2.86	2.86	2.85	2.84	2.83	2.82	2.81	2.80	2.78
11.60	2.77	2.75	2.74	2.72	2.71	2.70	2.69	2.68	2.67	2.66
11.80	2.66	2.65	2.64	2.64	2.63	2.63	2.63	2.62	2.62	2.62
12.00	2.61									

SUBCATCHMENT 2 Basin B

PEAK= 39.28 CFS @ 8.02 HRS, VOLUME= 6.48 AF

ACRES	CN		
7.30	98	Paved Streets	SCS TR-20 METHOD
35.46	77	1/8 Acre Res - Group A Soil	TYPE IA 24-HOUR
10.79	65	1/5 Acre Res - Group A Soil	RAINFALL= 5.50 IN
53.55	77		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	11.8

SUBCATCHMENT 2 RUNOFF PEAK= 39.28 CFS @ 8.02 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	4.09	4.15	4.22	4.30	4.38	4.46	4.56	4.66	4.75	4.85
6.20	4.94	5.03	5.12	5.20	5.28	5.36	5.44	5.51	5.58	5.66
6.40	5.73	5.80	5.86	5.93	5.99	6.05	6.11	6.17	6.21	6.23
6.60	6.24	6.23	6.22	6.21	6.21	6.21	6.23	6.26	6.30	6.34
6.80	6.39	6.45	6.51	6.58	6.66	6.74	6.82	6.91	7.00	7.11
7.00	7.21	7.32	7.44	7.56	7.68	7.81	7.95	8.09	8.24	8.40
7.20	8.55	8.72	8.90	9.07	9.25	9.45	9.64	9.85	10.06	10.27
7.40	10.50	10.73	10.97	11.21	11.47	11.73	12.02	12.47	13.18	14.31
7.60	15.91	17.87	20.01	22.20	24.30	26.25	27.99	29.50	30.86	32.07
7.80	33.18	34.19	35.09	35.89	36.61	37.26	37.81	38.27	38.65	38.96
8.00	39.18	39.28	39.18	38.82	38.09	36.95	35.51	33.93	32.32	30.77
8.20	29.32	28.06	26.95	25.96	25.05	24.21	23.45	22.73	22.05	21.42
8.40	20.83	20.27	19.74	19.24	18.77	18.33	17.92	17.56	17.28	17.09
8.60	17.00	16.98	17.00	17.03	17.05	17.05	17.00	16.93	16.83	16.71
8.80	16.58	16.44	16.30	16.14	15.99	15.83	15.68	15.52	15.35	15.20
9.00	15.04	14.88	14.72	14.56	14.41	14.25	14.08	13.92	13.77	13.62
9.20	13.46	13.32	13.19	13.06	12.93	12.80	12.69	12.58	12.47	12.36
9.40	12.26	12.17	12.08	11.99	11.91	11.83	11.76	11.69	11.64	11.61
9.60	11.60	11.59	11.60	11.60	11.61	11.60	11.59	11.57	11.55	11.53
9.80	11.49	11.46	11.43	11.40	11.36	11.32	11.29	11.25	11.21	11.17
10.00	11.13	11.09	11.05	11.00	10.95	10.90	10.85	10.79	10.73	10.68
10.20	10.63	10.58	10.53	10.50	10.46	10.42	10.38	10.35	10.32	10.28
10.40	10.25	10.23	10.20	10.17	10.15	10.13	10.11	10.09	10.08	10.08
10.60	10.10	10.12	10.13	10.15	10.17	10.17	10.17	10.16	10.16	10.14
10.80	10.12	10.10	10.08	10.06	10.03	10.01	9.98	9.96	9.93	9.90
11.00	9.87	9.85	9.82	9.79	9.76	9.73	9.70	9.67	9.64	9.61
11.20	9.59	9.56	9.52	9.50	9.47	9.44	9.41	9.38	9.35	9.32
11.40	9.29	9.26	9.23	9.20	9.17	9.13	9.11	9.07	9.04	8.99
11.60	8.95	8.91	8.86	8.81	8.77	8.73	8.69	8.66	8.63	8.60
11.80	8.58	8.55	8.53	8.51	8.49	8.47	8.46	8.45	8.43	8.42
12.00	8.41									

SUBCATCHMENT 3 Basin C

PEAK= 21.90 CFS @ 7.98 HRS, VOLUME= 3.54 AF

ACRES	CN	
1.68	98	Paved Streets
13.90	83	1/4 Acre Res & Industrial
1.90	94	Commercial
4.15	90	Town Houses - Group C Soil
21.63	86	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.7

SUBCATCHMENT 3 RUNOFF PEAK= 21.90 CFS @ 7.98 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.42	3.46	3.50	3.54	3.60	3.65	3.71	3.78	3.84	3.89
6.20	3.94	3.99	4.04	4.08	4.13	4.17	4.20	4.24	4.27	4.31
6.40	4.34	4.37	4.40	4.43	4.46	4.48	4.51	4.53	4.53	4.52
6.60	4.50	4.48	4.45	4.42	4.41	4.40	4.40	4.41	4.43	4.45
6.80	4.47	4.50	4.53	4.57	4.61	4.65	4.70	4.75	4.80	4.86
7.00	4.92	4.98	5.04	5.11	5.18	5.26	5.34	5.42	5.50	5.59
7.20	5.68	5.77	5.87	5.97	6.08	6.19	6.30	6.41	6.53	6.65
7.40	6.78	6.91	7.04	7.17	7.31	7.46	7.65	7.96	8.49	9.33
7.60	10.46	11.76	13.11	14.41	15.60	16.62	17.48	18.22	18.87	19.44
7.80	19.93	20.36	20.72	21.04	21.30	21.52	21.68	21.80	21.88	21.90
8.00	21.89	21.80	21.59	21.19	20.56	19.72	18.75	17.76	16.80	15.92
8.20	15.15	14.48	13.90	13.37	12.89	12.45	12.05	11.67	11.31	10.98
8.40	10.67	10.38	10.10	9.84	9.59	9.36	9.15	8.98	8.85	8.77
8.60	8.75	8.77	8.79	8.81	8.81	8.79	8.75	8.69	8.62	8.55
8.80	8.47	8.38	8.30	8.21	8.12	8.03	7.94	7.85	7.76	7.68
9.00	7.59	7.50	7.42	7.33	7.24	7.15	7.07	6.98	6.90	6.82
9.20	6.74	6.66	6.59	6.52	6.46	6.40	6.33	6.28	6.22	6.16
9.40	6.11	6.06	6.02	5.97	5.93	5.89	5.85	5.82	5.80	5.78
9.60	5.78	5.78	5.78	5.78	5.78	5.77	5.76	5.75	5.73	5.72
9.80	5.70	5.68	5.66	5.64	5.62	5.59	5.57	5.55	5.53	5.51
10.00	5.48	5.46	5.44	5.41	5.38	5.35	5.32	5.29	5.26	5.24
10.20	5.21	5.18	5.16	5.14	5.12	5.10	5.08	5.06	5.04	5.03
10.40	5.01	5.00	4.98	4.97	4.95	4.94	4.93	4.92	4.92	4.92
10.60	4.93	4.94	4.95	4.96	4.96	4.96	4.96	4.95	4.94	4.93
10.80	4.92	4.91	4.89	4.88	4.86	4.85	4.83	4.82	4.80	4.79
11.00	4.77	4.76	4.74	4.73	4.71	4.70	4.68	4.67	4.65	4.63
11.20	4.62	4.60	4.59	4.57	4.56	4.54	4.52	4.51	4.49	4.48
11.40	4.46	4.45	4.43	4.41	4.40	4.38	4.36	4.35	4.33	4.31
11.60	4.28	4.26	4.23	4.21	4.19	4.17	4.15	4.14	4.12	4.11
11.80	4.10	4.09	4.07	4.06	4.05	4.05	4.04	4.03	4.03	4.02
12.00	4.01									

SUBCATCHMENT 4 Basin D

PEAK= 35.16 CFS @ 8.03 HRS, VOLUME= 5.79 AF

ACRES	CN		
7.50	98	Paved Streets	SCS TR-20 METHOD
33.89	77	1/8 Acre Res - Group A Soil	TYPE IA 24-HOUR
41.39	81		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.1

SUBCATCHMENT 4 RUNOFF PEAK= 35.16 CFS @ 8.03 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	4.47	4.52	4.58	4.65	4.71	4.79	4.88	4.96	5.05	5.14
6.20	5.23	5.31	5.39	5.47	5.54	5.62	5.69	5.75	5.82	5.88
6.40	5.94	6.00	6.06	6.12	6.17	6.22	6.27	6.31	6.35	6.38
6.60	6.38	6.38	6.37	6.35	6.34	6.33	6.33	6.33	6.36	6.38
6.80	6.41	6.46	6.50	6.55	6.62	6.68	6.75	6.82	6.90	6.98
7.00	7.07	7.17	7.26	7.36	7.48	7.59	7.70	7.83	7.96	8.09
7.20	8.23	8.37	8.52	8.68	8.84	9.00	9.17	9.35	9.53	9.72
7.40	9.92	10.12	10.32	10.54	10.76	10.98	11.26	11.62	12.17	13.00
7.60	14.16	15.64	17.35	19.18	21.01	22.79	24.46	25.95	27.27	28.45
7.80	29.50	30.43	31.29	32.05	32.71	33.30	33.82	34.23	34.59	34.87
8.00	35.05	35.16	35.13	34.88	34.38	33.61	32.55	31.29	29.98	28.62
8.20	27.31	26.09	24.98	23.98	23.09	22.28	21.52	20.81	20.16	19.54
8.40	18.96	18.43	17.91	17.42	16.97	16.55	16.14	15.79	15.48	15.24
8.60	15.08	14.99	14.94	14.92	14.92	14.90	14.86	14.81	14.73	14.63
8.80	14.52	14.40	14.27	14.14	14.01	13.86	13.72	13.58	13.44	13.30
9.00	13.16	13.01	12.87	12.74	12.59	12.45	12.31	12.16	12.02	11.89
9.20	11.75	11.62	11.49	11.38	11.25	11.14	11.04	10.93	10.83	10.74
9.40	10.64	10.55	10.47	10.39	10.31	10.24	10.17	10.10	10.05	10.01
9.60	9.98	9.96	9.96	9.95	9.95	9.95	9.93	9.92	9.90	9.88
9.80	9.85	9.83	9.80	9.77	9.74	9.71	9.67	9.64	9.60	9.57
10.00	9.53	9.50	9.46	9.42	9.38	9.33	9.29	9.24	9.19	9.14
10.20	9.10	9.06	9.01	8.97	8.94	8.90	8.86	8.83	8.80	8.77
10.40	8.75	8.72	8.69	8.67	8.65	8.62	8.60	8.59	8.57	8.57
10.60	8.57	8.57	8.59	8.60	8.61	8.61	8.62	8.62	8.61	8.60
10.80	8.58	8.56	8.55	8.53	8.51	8.49	8.47	8.44	8.42	8.40
11.00	8.37	8.34	8.32	8.30	8.27	8.25	8.22	8.19	8.17	8.14
11.20	8.12	8.09	8.07	8.04	8.01	7.99	7.96	7.93	7.91	7.88
11.40	7.85	7.83	7.80	7.77	7.75	7.72	7.69	7.67	7.64	7.60
11.60	7.57	7.53	7.49	7.45	7.42	7.38	7.34	7.32	7.29	7.26
11.80	7.24	7.21	7.19	7.17	7.16	7.14	7.12	7.11	7.10	7.08
12.00	7.08									

SUBCATCHMENT 5 Basin E

PEAK= 25.56 CFS @ 8.00 HRS, VOLUME= 4.18 AF

ACRES	CN		
3.36	98	Paved Streets	SCS TR-20 METHOD
28.65	77	1/8 Acre Res - Group A Soil	TYPE IA 24-HOUR
32.01	79		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.4

SUBCATCHMENT 5 RUNOFF PEAK= 25.56 CFS @ 8.00 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.99	3.04	3.08	3.14	3.19	3.26	3.32	3.39	3.46	3.52
6.20	3.58	3.64	3.69	3.74	3.79	3.84	3.89	3.93	3.98	4.02
6.40	4.07	4.11	4.15	4.19	4.22	4.26	4.30	4.32	4.34	4.34
6.60	4.33	4.31	4.30	4.29	4.28	4.29	4.30	4.32	4.35	4.38
6.80	4.42	4.46	4.50	4.55	4.60	4.65	4.71	4.77	4.84	4.91
7.00	4.98	5.05	5.13	5.21	5.30	5.39	5.48	5.57	5.67	5.78
7.20	5.88	6.00	6.11	6.23	6.35	6.48	6.61	6.75	6.89	7.03
7.40	7.18	7.34	7.50	7.66	7.83	8.00	8.23	8.60	9.24	10.23
7.60	11.55	13.06	14.61	16.10	17.44	18.61	19.61	20.48	21.26	21.96
7.80	22.58	23.13	23.62	24.06	24.43	24.75	25.02	25.23	25.40	25.50
8.00	25.56	25.53	25.33	24.90	24.16	23.16	22.02	20.85	19.75	18.74
8.20	17.89	17.15	16.50	15.91	15.37	14.88	14.42	13.99	13.59	13.21
8.40	12.86	12.52	12.20	11.91	11.62	11.36	11.12	10.92	10.78	10.71
8.60	10.72	10.75	10.80	10.83	10.84	10.82	10.77	10.71	10.63	10.54
8.80	10.45	10.35	10.25	10.15	10.05	9.94	9.84	9.73	9.63	9.52
9.00	9.42	9.32	9.22	9.12	9.01	8.91	8.80	8.70	8.60	8.51
9.20	8.42	8.33	8.24	8.16	8.08	8.01	7.94	7.87	7.80	7.74
9.40	7.67	7.62	7.56	7.51	7.46	7.41	7.37	7.33	7.30	7.29
9.60	7.29	7.30	7.31	7.32	7.31	7.31	7.30	7.28	7.26	7.24
9.80	7.22	7.20	7.18	7.15	7.13	7.10	7.08	7.05	7.03	7.00
10.00	6.98	6.95	6.92	6.89	6.86	6.82	6.78	6.75	6.71	6.68
10.20	6.65	6.62	6.59	6.56	6.54	6.52	6.49	6.47	6.45	6.44
10.40	6.42	6.40	6.38	6.37	6.35	6.34	6.33	6.32	6.32	6.32
10.60	6.34	6.35	6.37	6.38	6.38	6.38	6.38	6.37	6.36	6.35
10.80	6.33	6.32	6.30	6.29	6.27	6.25	6.24	6.22	6.20	6.18
11.00	6.16	6.15	6.13	6.11	6.09	6.07	6.05	6.03	6.02	6.00
11.20	5.98	5.96	5.94	5.92	5.90	5.88	5.86	5.84	5.82	5.81
11.40	5.79	5.77	5.75	5.73	5.71	5.69	5.67	5.65	5.62	5.60
11.60	5.56	5.53	5.50	5.47	5.45	5.43	5.41	5.39	5.37	5.35
11.80	5.34	5.32	5.31	5.30	5.29	5.28	5.27	5.26	5.25	5.25
12.00	5.24									

SUBCATCHMENT 6 Basin F

PEAK= 15.81 CFS @ 7.92 HRS, VOLUME= 2.52 AF

ACRES	CN		
3.02	98	Paved Streets	SCS TR-20 METHOD
4.93	80	1/2 Acre Res - Group C Soil	TYPE IA 24-HOUR
5.91	94	Commercial - Group C Soil	RAINFALL= 5.50 IN
13.86	90		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	7.9

SUBCATCHMENT 6 RUNOFF PEAK= 15.81 CFS @ 7.92 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.85	2.88	2.91	2.96	3.01	3.06	3.11	3.15	3.19	3.23
6.20	3.26	3.29	3.32	3.34	3.37	3.39	3.41	3.43	3.46	3.47
6.40	3.49	3.51	3.53	3.54	3.56	3.57	3.58	3.58	3.56	3.52
6.60	3.48	3.45	3.42	3.41	3.41	3.41	3.42	3.44	3.45	3.47
6.80	3.50	3.52	3.55	3.58	3.61	3.65	3.69	3.73	3.77	3.81
7.00	3.86	3.91	3.96	4.01	4.07	4.12	4.18	4.25	4.31	4.38
7.20	4.45	4.52	4.60	4.67	4.75	4.83	4.92	5.00	5.09	5.18
7.40	5.28	5.37	5.47	5.57	5.68	5.79	5.97	6.39	7.19	8.33
7.60	9.59	10.77	11.77	12.55	13.17	13.68	14.11	14.47	14.77	15.03
7.80	15.24	15.42	15.56	15.67	15.75	15.80	15.81	15.80	15.75	15.67
8.00	15.56	15.37	15.01	14.39	13.55	12.63	11.77	11.04	10.45	9.97
8.20	9.56	9.20	8.87	8.57	8.30	8.05	7.81	7.58	7.37	7.17
8.40	6.98	6.80	6.63	6.47	6.32	6.18	6.06	5.99	5.97	6.01
8.60	6.07	6.12	6.14	6.13	6.10	6.06	6.01	5.95	5.89	5.82
8.80	5.76	5.69	5.62	5.56	5.49	5.43	5.36	5.30	5.24	5.18
9.00	5.12	5.05	4.99	4.93	4.87	4.81	4.75	4.69	4.63	4.58
9.20	4.53	4.48	4.44	4.39	4.35	4.31	4.27	4.23	4.19	4.16
9.40	4.13	4.09	4.06	4.04	4.01	3.98	3.96	3.95	3.94	3.95
9.60	3.96	3.97	3.97	3.96	3.96	3.95	3.93	3.92	3.91	3.89
9.80	3.88	3.86	3.85	3.83	3.81	3.80	3.78	3.77	3.75	3.73
10.00	3.72	3.70	3.68	3.66	3.64	3.61	3.59	3.57	3.55	3.53
10.20	3.52	3.50	3.49	3.47	3.46	3.45	3.44	3.42	3.41	3.40
10.40	3.39	3.38	3.37	3.37	3.36	3.35	3.34	3.34	3.35	3.36
10.60	3.37	3.38	3.38	3.38	3.38	3.37	3.36	3.36	3.35	3.34
10.80	3.33	3.32	3.31	3.30	3.28	3.27	3.26	3.25	3.24	3.23
11.00	3.22	3.21	3.20	3.19	3.18	3.17	3.15	3.14	3.13	3.12
11.20	3.11	3.10	3.09	3.08	3.07	3.05	3.04	3.03	3.02	3.01
11.40	3.00	2.99	2.98	2.97	2.95	2.94	2.93	2.92	2.90	2.88
11.60	2.86	2.85	2.83	2.82	2.81	2.79	2.78	2.78	2.77	2.76
11.80	2.75	2.74	2.74	2.73	2.73	2.72	2.72	2.71	2.71	2.71
12.00	2.71									

SUBCATCHMENT 7 Basin G - Subbasin 1

PEAK= 61.13 CFS @ 7.97 HRS, VOLUME= 9.86 AF

ACRES	CN		SCS TR-20 METHOD
8.51	98	Paved Streets	TYPE IA 24-HOUR
23.00	85	1/8 Acre Res - Group B Soil	RAINFALL= 5.50 IN
2.74	77	Brush/Forest - Group C Soil	SPAN= 6-12 HRS, dt=.02 HRS
21.23	90	1/8 Acre Res - Group C Soil	
55.48	89		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.9

SUBCATCHMENT 7 RUNOFF PEAK= 61.13 CFS @ 7.97 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	10.56	10.66	10.77	10.90	11.04	11.20	11.37	11.55	11.72	11.88
6.20	12.03	12.17	12.29	12.41	12.53	12.64	12.74	12.84	12.93	13.02
6.40	13.10	13.19	13.26	13.33	13.40	13.47	13.53	13.57	13.58	13.54
6.60	13.48	13.39	13.30	13.21	13.15	13.11	13.10	13.12	13.15	13.19
6.80	13.25	13.33	13.41	13.51	13.61	13.73	13.85	13.98	14.13	14.28
7.00	14.44	14.61	14.79	14.98	15.17	15.38	15.60	15.82	16.05	16.29
7.20	16.54	16.81	17.07	17.35	17.64	17.94	18.24	18.56	18.89	19.22
7.40	19.56	19.92	20.29	20.67	21.05	21.45	21.97	22.82	24.26	26.51
7.60	29.59	33.19	36.96	40.63	43.98	46.89	49.32	51.39	53.19	54.75
7.80	56.09	57.24	58.22	59.05	59.73	60.28	60.68	60.95	61.10	61.12
8.00	61.03	60.74	60.12	59.01	57.27	54.97	52.32	49.54	46.84	44.35
8.20	42.17	40.28	38.62	37.12	35.76	34.50	33.35	32.28	31.29	30.35
8.40	29.46	28.63	27.85	27.12	26.43	25.78	25.18	24.67	24.28	24.06
8.60	23.98	24.00	24.04	24.08	24.09	24.03	23.91	23.75	23.56	23.35
8.80	23.13	22.90	22.66	22.41	22.16	21.91	21.67	21.42	21.17	20.92
9.00	20.68	20.44	20.21	19.97	19.73	19.48	19.24	19.00	18.77	18.55
9.20	18.33	18.12	17.92	17.73	17.55	17.38	17.20	17.04	16.88	16.73
9.40	16.59	16.45	16.32	16.19	16.07	15.96	15.86	15.76	15.69	15.65
9.60	15.64	15.64	15.64	15.64	15.63	15.61	15.58	15.55	15.50	15.45
9.80	15.40	15.35	15.29	15.23	15.17	15.11	15.05	14.99	14.93	14.87
10.00	14.81	14.74	14.68	14.61	14.53	14.45	14.36	14.28	14.20	14.12
10.20	14.05	13.98	13.91	13.85	13.79	13.74	13.69	13.64	13.59	13.54
10.40	13.50	13.45	13.41	13.37	13.34	13.30	13.27	13.25	13.24	13.24
10.60	13.25	13.28	13.30	13.32	13.33	13.33	13.32	13.30	13.27	13.25
10.80	13.21	13.18	13.14	13.10	13.07	13.03	12.98	12.94	12.90	12.86
11.00	12.82	12.78	12.73	12.69	12.65	12.61	12.56	12.52	12.47	12.43
11.20	12.39	12.35	12.30	12.26	12.22	12.17	12.13	12.09	12.04	12.00
11.40	11.96	11.91	11.87	11.83	11.78	11.74	11.69	11.65	11.59	11.54
11.60	11.47	11.40	11.34	11.28	11.22	11.17	11.12	11.07	11.03	11.00
11.80	10.96	10.93	10.90	10.87	10.85	10.82	10.80	10.78	10.76	10.75
12.00	10.73									

SUBCATCHMENT 8 Basin G - Subbasin 2

PEAK= 12.64 CFS @ 7.95 HRS, VOLUME= 2.03 AF

ACRES	CN		
1.84	98	Paved Streets	SCS TR-20 METHOD
9.03	90	1/8 Acre Res - Group C Soil	TYPE IA 24-HOUR
10.87	91		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	9.7

SUBCATCHMENT 8 RUNOFF PEAK= 12.64 CFS @ 7.95 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.33	2.36	2.38	2.41	2.44	2.48	2.52	2.55	2.59	2.62
6.20	2.65	2.68	2.70	2.72	2.74	2.76	2.78	2.80	2.82	2.84
6.40	2.85	2.87	2.88	2.89	2.91	2.92	2.93	2.93	2.93	2.91
6.60	2.89	2.86	2.84	2.82	2.81	2.80	2.80	2.81	2.82	2.83
6.80	2.84	2.86	2.88	2.90	2.92	2.95	2.97	3.00	3.03	3.07
7.00	3.10	3.14	3.18	3.22	3.26	3.30	3.35	3.39	3.44	3.50
7.20	3.55	3.60	3.66	3.72	3.78	3.84	3.91	3.97	4.04	4.11
7.40	4.19	4.26	4.34	4.42	4.50	4.58	4.69	4.90	5.28	5.91
7.60	6.70	7.57	8.41	9.17	9.81	10.33	10.76	11.13	11.44	11.71
7.80	11.93	12.12	12.28	12.41	12.51	12.58	12.62	12.64	12.64	12.61
8.00	12.55	12.46	12.27	11.96	11.48	10.90	10.27	9.65	9.09	8.62
8.20	8.21	7.86	7.55	7.27	7.02	6.78	6.56	6.36	6.17	5.99
8.40	5.82	5.66	5.51	5.37	5.24	5.11	5.00	4.91	4.86	4.84
8.60	4.85	4.87	4.88	4.89	4.89	4.86	4.83	4.79	4.75	4.70
8.80	4.66	4.60	4.55	4.50	4.45	4.40	4.35	4.30	4.25	4.20
9.00	4.15	4.10	4.05	4.00	3.95	3.90	3.85	3.80	3.75	3.71
9.20	3.67	3.63	3.59	3.55	3.51	3.48	3.45	3.41	3.38	3.35
9.40	3.33	3.30	3.27	3.25	3.22	3.20	3.18	3.17	3.16	3.15
9.60	3.15	3.15	3.16	3.16	3.15	3.15	3.14	3.13	3.12	3.11
9.80	3.10	3.09	3.07	3.06	3.05	3.04	3.03	3.01	3.00	2.99
10.00	2.97	2.96	2.95	2.93	2.91	2.90	2.88	2.86	2.85	2.83
10.20	2.82	2.80	2.79	2.78	2.77	2.76	2.75	2.74	2.73	2.72
10.40	2.71	2.70	2.69	2.68	2.68	2.67	2.66	2.66	2.66	2.66
10.60	2.67	2.67	2.68	2.68	2.68	2.68	2.68	2.67	2.67	2.66
10.80	2.65	2.64	2.64	2.63	2.62	2.61	2.60	2.59	2.59	2.58
11.00	2.57	2.56	2.55	2.54	2.53	2.52	2.52	2.51	2.50	2.49
11.20	2.48	2.47	2.46	2.45	2.45	2.44	2.43	2.42	2.41	2.40
11.40	2.39	2.38	2.37	2.37	2.36	2.35	2.34	2.33	2.32	2.30
11.60	2.29	2.28	2.26	2.25	2.24	2.23	2.22	2.21	2.21	2.20
11.80	2.19	2.19	2.18	2.17	2.17	2.17	2.16	2.16	2.15	2.15
12.00	2.15									

SUBCATCHMENT 9 Basin G - Subbasin 3

PEAK= 20.51 CFS @ 7.93 HRS, VOLUME= 3.30 AF

ACRES	CN		
3.33	98	Paved Streets	SCS TR-20 METHOD
16.47	80	1/5 Acre Res - Group B Soil	TYPE IA 24-HOUR
1.54	90	1/8 Acre Res - Group C Soil	RAINFALL= 5.50 IN
21.34	84		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.6

SUBCATCHMENT 9 RUNOFF PEAK= 20.51 CFS @ 7.93 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.05	3.09	3.14	3.20	3.27	3.34	3.40	3.45	3.49	3.53
6.20	3.57	3.61	3.65	3.68	3.72	3.75	3.78	3.81	3.84	3.87
6.40	3.90	3.92	3.95	3.98	4.00	4.02	4.04	4.03	3.99	3.94
6.60	3.90	3.87	3.86	3.87	3.88	3.90	3.92	3.95	3.98	4.01
6.80	4.05	4.09	4.13	4.18	4.23	4.28	4.33	4.39	4.44	4.50
7.00	4.57	4.64	4.71	4.78	4.85	4.93	5.02	5.10	5.19	5.28
7.20	5.37	5.47	5.57	5.67	5.78	5.89	6.01	6.12	6.24	6.37
7.40	6.50	6.63	6.76	6.90	7.04	7.20	7.52	8.33	9.80	11.61
7.60	13.33	14.73	15.77	16.60	17.28	17.84	18.33	18.75	19.12	19.44
7.80	19.71	19.95	20.14	20.29	20.41	20.48	20.51	20.50	20.45	20.36
8.00	20.22	19.93	19.27	18.14	16.79	15.52	14.49	13.72	13.10	12.57
8.20	12.13	11.72	11.36	11.02	10.70	10.40	10.11	9.84	9.58	9.34
8.40	9.11	8.89	8.68	8.49	8.31	8.14	8.01	7.97	8.04	8.16
8.60	8.27	8.33	8.33	8.29	8.23	8.16	8.08	8.00	7.92	7.83
8.80	7.74	7.65	7.57	7.48	7.40	7.31	7.23	7.15	7.06	6.99
9.00	6.91	6.83	6.75	6.66	6.58	6.50	6.42	6.34	6.28	6.21
9.20	6.15	6.08	6.03	5.97	5.92	5.86	5.81	5.77	5.72	5.68
9.40	5.63	5.60	5.56	5.52	5.49	5.46	5.43	5.43	5.44	5.46
9.60	5.48	5.49	5.48	5.47	5.46	5.45	5.43	5.41	5.39	5.37
9.80	5.35	5.33	5.31	5.29	5.27	5.25	5.23	5.20	5.18	5.16
10.00	5.14	5.12	5.09	5.06	5.03	4.99	4.96	4.94	4.92	4.89
10.20	4.88	4.86	4.84	4.82	4.80	4.79	4.77	4.76	4.75	4.73
10.40	4.72	4.71	4.70	4.69	4.68	4.67	4.66	4.67	4.68	4.71
10.60	4.73	4.74	4.74	4.73	4.72	4.71	4.70	4.69	4.68	4.66
10.80	4.65	4.63	4.62	4.61	4.59	4.58	4.56	4.55	4.53	4.52
11.00	4.50	4.49	4.48	4.46	4.45	4.43	4.42	4.40	4.39	4.37
11.20	4.36	4.34	4.33	4.31	4.30	4.28	4.27	4.26	4.24	4.22
11.40	4.21	4.19	4.18	4.17	4.15	4.14	4.12	4.10	4.07	4.04
11.60	4.01	3.99	3.97	3.96	3.94	3.93	3.92	3.91	3.90	3.89
11.80	3.88	3.87	3.86	3.85	3.85	3.84	3.84	3.83	3.83	3.83
12.00	3.82									

SUBCATCHMENT 10 Basin G - Subbasin 4

PEAK= 31.23 CFS @ 7.99 HRS, VOLUME= 5.07 AF

ACRES	CN		SCS TR-20 METHOD
4.35	98	Paved Streets	TYPE IA 24-HOUR
13.57	80	1/5 Acre Res - Group B Soil	RAINFALL= 5.50 IN
11.85	87	1/5 Acre Res - Group C Soil	SPAN= 6-12 HRS, dt=.02 HRS
1.18	98	Impervious - Alzheimer Care Ctr	
30.95	86		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	11.7

SUBCATCHMENT 10 RUNOFF PEAK= 31.23 CFS @ 7.99 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	4.86	4.91	4.97	5.03	5.09	5.17	5.25	5.34	5.42	5.51
6.20	5.58	5.66	5.73	5.79	5.85	5.91	5.97	6.02	6.07	6.12
6.40	6.17	6.22	6.26	6.30	6.35	6.39	6.42	6.45	6.47	6.47
6.60	6.45	6.42	6.38	6.35	6.32	6.31	6.30	6.31	6.33	6.35
6.80	6.38	6.42	6.46	6.51	6.56	6.62	6.68	6.75	6.82	6.90
7.00	6.98	7.06	7.15	7.25	7.35	7.45	7.56	7.67	7.79	7.91
7.20	8.04	8.16	8.30	8.44	8.59	8.74	8.89	9.05	9.22	9.39
7.40	9.56	9.75	9.93	10.12	10.32	10.52	10.78	11.16	11.79	12.76
7.60	14.11	15.75	17.53	19.32	21.04	22.61	23.97	25.13	26.14	27.04
7.80	27.82	28.51	29.10	29.62	30.06	30.42	30.71	30.95	31.11	31.21
8.00	31.22	31.16	30.96	30.53	29.82	28.82	27.62	26.31	24.97	23.70
8.20	22.54	21.51	20.61	19.79	19.06	18.39	17.77	17.19	16.65	16.15
8.40	15.68	15.23	14.81	14.42	14.05	13.70	13.37	13.09	12.87	12.71
8.60	12.63	12.60	12.61	12.62	12.62	12.60	12.56	12.49	12.40	12.30
8.80	12.19	12.08	11.96	11.83	11.71	11.58	11.46	11.33	11.20	11.08
9.00	10.96	10.83	10.71	10.58	10.46	10.34	10.21	10.08	9.96	9.85
9.20	9.73	9.62	9.52	9.42	9.32	9.22	9.13	9.05	8.97	8.88
9.40	8.81	8.74	8.67	8.60	8.53	8.47	8.42	8.37	8.33	8.30
9.60	8.29	8.28	8.28	8.28	8.27	8.27	8.25	8.24	8.22	8.20
9.80	8.17	8.14	8.12	8.09	8.06	8.03	8.00	7.97	7.94	7.90
10.00	7.87	7.84	7.81	7.77	7.73	7.69	7.65	7.61	7.56	7.52
10.20	7.48	7.45	7.41	7.38	7.35	7.32	7.29	7.26	7.24	7.21
10.40	7.19	7.17	7.14	7.13	7.11	7.09	7.07	7.06	7.05	7.05
10.60	7.05	7.06	7.08	7.09	7.09	7.09	7.09	7.09	7.07	7.06
10.80	7.05	7.03	7.01	6.99	6.97	6.95	6.93	6.91	6.89	6.87
11.00	6.85	6.83	6.80	6.78	6.76	6.74	6.71	6.69	6.67	6.65
11.20	6.63	6.60	6.58	6.56	6.54	6.51	6.49	6.47	6.45	6.42
11.40	6.40	6.38	6.36	6.33	6.31	6.29	6.26	6.24	6.21	6.18
11.60	6.15	6.12	6.08	6.05	6.02	5.99	5.96	5.94	5.92	5.90
11.80	5.88	5.86	5.84	5.83	5.81	5.80	5.79	5.78	5.77	5.76
12.00	5.75									

TYPE IA 24-HOUR RAINFALL= 5.50 IN
Prepared by HBH Consulting Engineers, Inc. 6 Jan 06
HydroCAD 5.11 001354 (c) 1986-1999 Applied Microcomputer Systems

SUBCATCHMENT 1 Basin H

PEAK= 205.7 CFS @ 8.65 HRS, VOLUME= 47.57 AF

ACRES	CN		
215.72	76	Forest - Group C Soil	SCS TR-20 METHOD
15.57	65	Forest - Group B Soil	TYPE IA 24-HOUR
24.60	85	1/8 Acre Res - Group B Soil	RAINFALL= 5.50 IN
5.77	90	1/8 Acre Res - Group C Soil	SPAN= 6-12 HRS, dt=.02 HRS
81.05	80	1/5 Acre Res - Group B Soil	
20.52	87	1/5 Acre Res - Group C Soil	
21.21	98	Paved Streets	
1.33	72	Open Space	
385.77	79		

Method	Comment	Tc (min)
SHALLOW CONCENTRATED/UPLAND FLOW	1	6.8
Woodland Kv=5 L=450' s=.0488 '/' V=1.1 fps		
SHALLOW CONCENTRATED/UPLAND FLOW	2	13.6
Woodland Kv=5 L=1323' s=.1058 '/' V=1.63 fps		
SHALLOW CONCENTRATED/UPLAND FLOW	3	25.4
Woodland Kv=5 L=1132' s=.0221 '/' V=.74 fps		
CHANNEL FLOW	4	7.8
a=6 sq-ft Pw=6.5' r=.923'		
s=.0224 '/' n=.04 V=5.27 fps L=2456' Capacity=31.6 cfs		
CHANNEL FLOW	5	2.0
a=7 sq-ft Pw=6.5' r=1.077'		
s=.122 '/' n=.04 V=13.63 fps L=1641' Capacity=95.4 cfs		
CHANNEL FLOW	6	6.3
a=10 sq-ft Pw=8.5' r=1.176'		
s=.0068 '/' n=.07 V=1.95 fps L=735' Capacity=19.5 cfs		
	Total Length= 7737 ft Total Tc=	61.9

SUBCATCHMENT 1 RUNOFF PEAK= 205.7 CFS @ 8.65 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	21.5	21.8	22.1	22.5	22.8	23.2	23.5	23.9	24.2	24.6
6.20	24.9	25.3	25.7	26.1	26.4	26.8	27.2	27.6	28.0	28.4
6.40	28.8	29.3	29.7	30.1	30.5	31.0	31.5	31.9	32.4	32.8
6.60	33.3	33.8	34.3	34.8	35.3	35.7	36.2	36.7	37.2	37.7
6.80	38.2	38.7	39.1	39.6	40.0	40.5	41.0	41.5	41.9	42.3
7.00	42.7	43.2	43.6	44.0	44.5	44.9	45.3	45.7	46.1	46.5
7.20	47.0	47.4	47.9	48.3	48.7	49.2	49.7	50.2	50.7	51.2
7.40	51.7	52.2	52.8	53.4	54.1	54.7	55.3	56.0	56.7	57.5
7.60	58.4	59.3	60.3	61.3	62.3	63.5	64.9	66.3	67.7	69.5
7.80	71.3	73.1	75.2	77.7	80.1	82.6	85.6	88.6	91.6	95.1
8.00	98.8	102.5	106.4	110.6	114.9	119.3	123.8	128.4	133.0	137.7
8.20	142.3	147.0	151.6	156.2	160.7	165.2	169.5	173.4	177.3	181.1
8.40	184.5	187.8	191.1	193.9	196.0	198.1	200.2	201.7	203.1	204.5
8.60	205.2	205.4	205.6	205.6	205.3	205.0	204.7	203.6	202.3	201.0
8.80	199.6	198.1	196.6	195.0	193.1	191.0	189.0	187.0	185.0	183.0
9.00	181.0	178.8	176.6	174.4	172.4	170.4	168.5	166.5	164.6	162.7
9.20	160.7	159.0	157.3	155.6	153.8	152.1	150.4	148.8	147.2	145.7
9.40	144.2	142.7	141.2	139.7	138.2	136.8	135.5	134.1	132.7	131.3
9.60	129.9	128.6	127.3	126.1	124.9	123.7	122.4	121.1	119.8	118.8
9.80	117.7	116.6	115.5	114.4	113.2	112.2	111.3	110.4	109.4	108.5
10.00	107.6	106.6	105.8	105.0	104.3	103.6	102.8	102.0	101.3	100.6
10.20	100.0	99.4	98.8	98.1	97.5	96.8	96.3	95.8	95.3	94.8
10.40	94.2	93.7	93.1	92.6	92.2	91.8	91.3	90.8	90.3	89.8
10.60	89.4	89.1	88.7	88.3	87.8	87.4	86.9	86.6	86.2	85.9
10.80	85.5	85.1	84.7	84.4	84.1	83.8	83.5	83.2	82.9	82.5
11.00	82.2	82.0	81.8	81.5	81.3	81.0	80.7	80.5	80.3	80.1
11.20	79.9	79.6	79.4	79.1	78.9	78.8	78.6	78.4	78.2	78.0
11.40	77.7	77.5	77.4	77.2	77.1	76.8	76.6	76.4	76.2	76.0
11.60	75.9	75.7	75.5	75.2	75.0	74.8	74.6	74.5	74.2	74.0
11.80	73.7	73.5	73.3	73.1	72.9	72.7	72.5	72.2	71.9	71.7
12.00	71.6									

SUBCATCHMENT 2 Basin I

PEAK= 104.4 CFS @ 7.92 HRS, VOLUME= 16.80 AF

ACRES	CN		
16.42	76	Forest - Group C Soil	SCS TR-20 METHOD
95.71	84	SWOCC (~40% Imp.) - Group C Soil	TYPE IA 24-HOUR
112.13	83		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.1

SUBCATCHMENT 2 RUNOFF PEAK= 104.4 CFS @ 7.92 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	15.0	15.2	15.5	15.8	16.2	16.5	16.8	17.0	17.3	17.5
6.20	17.7	17.8	18.0	18.2	18.4	18.5	18.7	18.9	19.0	19.2
6.40	19.3	19.5	19.6	19.7	19.8	20.0	20.0	20.0	19.7	19.5
6.60	19.3	19.2	19.2	19.2	19.3	19.4	19.5	19.7	19.8	20.0
6.80	20.2	20.4	20.6	20.9	21.1	21.4	21.7	22.0	22.3	22.6
7.00	22.9	23.3	23.6	24.0	24.4	24.8	25.2	25.7	26.1	26.6
7.20	27.1	27.6	28.1	28.6	29.2	29.7	30.3	30.9	31.6	32.2
7.40	32.9	33.5	34.2	34.9	35.7	36.5	38.3	43.3	51.9	61.7
7.60	70.3	76.9	81.7	85.6	88.7	91.4	93.8	95.8	97.6	99.1
7.80	100.5	101.7	102.6	103.3	103.9	104.2	104.4	104.3	104.0	103.5
8.00	102.8	101.1	97.1	90.5	83.2	76.8	72.0	68.4	65.5	63.1
8.20	60.9	59.0	57.2	55.6	54.0	52.5	51.1	49.8	48.5	47.3
8.40	46.1	45.1	44.0	43.1	42.2	41.3	40.7	40.7	41.3	42.0
8.60	42.6	42.8	42.7	42.4	42.1	41.7	41.3	40.9	40.4	40.0
8.80	39.5	39.1	38.6	38.2	37.8	37.3	36.9	36.5	36.1	35.7
9.00	35.3	34.9	34.5	34.0	33.6	33.2	32.8	32.4	32.1	31.8
9.20	31.4	31.1	30.8	30.6	30.3	30.0	29.8	29.5	29.3	29.1
9.40	28.9	28.7	28.5	28.3	28.2	28.0	27.9	27.9	28.0	28.1
9.60	28.2	28.2	28.2	28.1	28.1	28.0	27.9	27.8	27.7	27.6
9.80	27.5	27.4	27.3	27.2	27.1	27.0	26.8	26.7	26.6	26.5
10.00	26.4	26.3	26.2	26.0	25.8	25.6	25.5	25.4	25.3	25.2
10.20	25.1	25.0	24.9	24.8	24.7	24.6	24.6	24.5	24.4	24.4
10.40	24.3	24.2	24.2	24.1	24.1	24.0	24.0	24.1	24.2	24.3
10.60	24.4	24.4	24.4	24.4	24.3	24.3	24.2	24.2	24.1	24.0
10.80	23.9	23.9	23.8	23.7	23.7	23.6	23.5	23.4	23.4	23.3
11.00	23.2	23.1	23.1	23.0	22.9	22.8	22.8	22.7	22.6	22.5
11.20	22.5	22.4	22.3	22.2	22.2	22.1	22.0	21.9	21.9	21.8
11.40	21.7	21.6	21.5	21.5	21.4	21.3	21.2	21.1	20.9	20.8
11.60	20.7	20.6	20.5	20.4	20.3	20.3	20.2	20.2	20.1	20.1
11.80	20.0	20.0	19.9	19.9	19.9	19.8	19.8	19.8	19.8	19.8
12.00	19.8									

SUBCATCHMENT 3 Basin J - Overall

PEAK= 96.44 CFS @ 7.96 HRS, VOLUME= 15.52 AF

ACRES	CN		
6.60	98	Paved Streets	SCS TR-20 METHOD
.44	77	Brush - Group C Soil	TYPE IA 24-HOUR
52.26	94	Commercial - Group C Soil	RAINFALL= 5.50 IN
7.54	85	1/8 Acre Res - Group B Soil	SPAN= 6-12 HRS, dt=.02 HRS
12.87	90	1/8 Acre Res - Group C Soil	
79.71	93		

Method	Comment	Tc (min)
DIRECT ENTRY	Overland Flow	6.9
CIRCULAR CHANNEL	10" Pipe	2.8
10" Diameter a=.55 sq-ft Pw=2.6' r=.208'		
s=.028 '/' n=.013 V=6.72 fps L=1141' Capacity=3.7 cfs		
CIRCULAR CHANNEL	15" Pipe	.2
15" Diameter a=1.23 sq-ft Pw=3.9' r=.313'		
s=.029 '/' n=.013 V=8.96 fps L=105' Capacity=11 cfs		
CIRCULAR CHANNEL	24" Pipe	.4
24" Diameter a=3.14 sq-ft Pw=6.3' r=.5'		
s=.029 '/' n=.013 V=12.26 fps L=271' Capacity=38.5 cfs		
CIRCULAR CHANNEL	36" Pipe	.6
36" Diameter a=7.07 sq-ft Pw=9.4' r=.75'		
s=.007 '/' n=.013 V=7.89 fps L=297' Capacity=55.8 cfs		
CIRCULAR CHANNEL	48" Pipe	.2
48" Diameter a=12.57 sq-ft Pw=12.6' r=1'		
s=.005 '/' n=.011 V=9.55 fps L=90' Capacity=120 cfs		
	Total Length= 1904 ft Total Tc=	11.1

SUBCATCHMENT 3 RUNOFF PEAK= 96.44 CFS @ 7.96 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	18.83	18.98	19.14	19.33	19.55	19.81	20.09	20.37	20.64	20.89
6.20	21.13	21.35	21.55	21.73	21.90	22.06	22.22	22.36	22.49	22.61
6.40	22.73	22.85	22.96	23.06	23.14	23.23	23.31	23.35	23.34	23.27
6.60	23.13	22.96	22.78	22.62	22.48	22.39	22.34	22.34	22.37	22.42
6.80	22.49	22.59	22.71	22.85	23.00	23.16	23.35	23.55	23.77	24.00
7.00	24.24	24.49	24.77	25.06	25.36	25.68	26.00	26.35	26.71	27.09
7.20	27.48	27.87	28.29	28.73	29.18	29.64	30.11	30.59	31.10	31.63
7.40	32.16	32.71	33.27	33.85	34.45	35.07	35.79	37.04	39.19	42.68
7.60	47.56	53.26	59.25	65.07	70.45	75.11	78.97	82.21	84.98	87.39
7.80	89.44	91.17	92.61	93.79	94.76	95.50	96.03	96.34	96.44	96.36
8.00	96.10	95.54	94.49	92.71	90.00	86.44	82.30	77.95	73.69	69.73
8.20	66.22	63.18	60.50	58.08	55.88	53.88	52.04	50.33	48.72	47.21
8.40	45.80	44.49	43.25	42.08	40.97	39.94	39.00	38.20	37.57	37.16
8.60	36.98	36.96	37.00	37.04	37.02	36.92	36.74	36.49	36.20	35.88
8.80	35.52	35.15	34.78	34.40	34.01	33.62	33.22	32.84	32.46	32.08
9.00	31.69	31.31	30.94	30.57	30.20	29.82	29.44	29.06	28.70	28.36
9.20	28.02	27.69	27.38	27.08	26.80	26.53	26.26	26.00	25.75	25.52
9.40	25.30	25.08	24.87	24.67	24.48	24.31	24.14	23.99	23.88	23.81
9.60	23.78	23.76	23.76	23.75	23.74	23.71	23.67	23.60	23.53	23.45
9.80	23.38	23.29	23.20	23.11	23.02	22.93	22.83	22.74	22.64	22.54
10.00	22.44	22.35	22.25	22.13	22.01	21.89	21.76	21.63	21.50	21.38
10.20	21.26	21.16	21.06	20.96	20.87	20.78	20.70	20.62	20.55	20.47
10.40	20.40	20.33	20.27	20.21	20.15	20.09	20.04	20.00	19.98	19.98
10.60	20.00	20.03	20.06	20.09	20.11	20.10	20.08	20.05	20.02	19.97
10.80	19.92	19.86	19.81	19.75	19.69	19.63	19.56	19.50	19.44	19.38
11.00	19.31	19.24	19.17	19.11	19.05	18.98	18.91	18.84	18.78	18.71
11.20	18.65	18.58	18.51	18.44	18.38	18.31	18.24	18.18	18.11	18.04
11.40	17.98	17.91	17.84	17.77	17.71	17.64	17.58	17.50	17.42	17.33
11.60	17.24	17.14	17.04	16.94	16.85	16.77	16.70	16.63	16.57	16.51
11.80	16.45	16.41	16.36	16.31	16.27	16.23	16.20	16.17	16.14	16.11
12.00	16.09									

SUBCATCHMENT 4 Basin J - Subbasin 1

PEAK= 28.48 CFS @ 7.95 HRS, VOLUME= 4.56 AF

ACRES	CN		
.91	98	Paved Streets	SCS TR-20 METHOD TYPE IA 24-HOUR
1.40	76	Forestland - Group C Soil	RAINFALL= 5.50 IN
14.57	94	Commercial	SPAN= 6-12 HRS, dt=.02 HRS
7.06	90	1/8 Acre Res - Group C Soil	
23.94	92		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	9.9

SUBCATCHMENT 4 RUNOFF PEAK= 28.48 CFS @ 7.95 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	5.41	5.46	5.51	5.57	5.65	5.73	5.82	5.90	5.98	6.05
6.20	6.12	6.18	6.23	6.28	6.33	6.38	6.42	6.46	6.50	6.54
6.40	6.57	6.60	6.63	6.66	6.69	6.71	6.73	6.74	6.73	6.70
6.60	6.64	6.59	6.53	6.48	6.45	6.44	6.44	6.45	6.46	6.49
6.80	6.52	6.55	6.59	6.64	6.69	6.74	6.80	6.87	6.94	7.01
7.00	7.09	7.17	7.25	7.34	7.43	7.53	7.63	7.74	7.85	7.96
7.20	8.08	8.20	8.33	8.46	8.60	8.74	8.88	9.03	9.18	9.34
7.40	9.50	9.67	9.84	10.02	10.20	10.39	10.63	11.09	11.91	13.26
7.60	15.00	16.91	18.80	20.53	22.00	23.19	24.19	25.03	25.75	26.35
7.80	26.87	27.30	27.66	27.94	28.17	28.33	28.43	28.48	28.46	28.39
8.00	28.26	28.03	27.63	26.94	25.93	24.65	23.26	21.89	20.63	19.53
8.20	18.60	17.79	17.08	16.43	15.85	15.31	14.81	14.35	13.91	13.50
8.40	13.12	12.75	12.41	12.09	11.79	11.50	11.25	11.04	10.91	10.85
8.60	10.86	10.89	10.93	10.95	10.94	10.89	10.82	10.74	10.64	10.54
8.80	10.43	10.32	10.20	10.09	9.97	9.85	9.74	9.62	9.51	9.40
9.00	9.29	9.18	9.07	8.96	8.84	8.73	8.62	8.51	8.41	8.31
9.20	8.21	8.12	8.03	7.95	7.86	7.78	7.71	7.64	7.57	7.50
9.40	7.44	7.37	7.32	7.26	7.21	7.16	7.11	7.07	7.05	7.04
9.60	7.04	7.04	7.05	7.04	7.04	7.03	7.01	6.99	6.97	6.94
9.80	6.92	6.89	6.86	6.84	6.81	6.78	6.75	6.72	6.69	6.67
10.00	6.64	6.61	6.58	6.54	6.51	6.47	6.43	6.39	6.35	6.32
10.20	6.28	6.25	6.22	6.20	6.17	6.15	6.13	6.10	6.08	6.06
10.40	6.04	6.02	6.00	5.99	5.97	5.95	5.94	5.93	5.93	5.93
10.60	5.95	5.96	5.97	5.98	5.98	5.97	5.96	5.95	5.94	5.93
10.80	5.91	5.89	5.87	5.86	5.84	5.82	5.80	5.78	5.76	5.74
11.00	5.72	5.70	5.68	5.66	5.64	5.62	5.60	5.58	5.57	5.55
11.20	5.53	5.51	5.49	5.47	5.45	5.43	5.41	5.39	5.37	5.35
11.40	5.33	5.31	5.29	5.27	5.25	5.23	5.21	5.19	5.16	5.13
11.60	5.10	5.07	5.04	5.01	4.99	4.97	4.95	4.93	4.91	4.89
11.80	4.88	4.87	4.85	4.84	4.83	4.82	4.81	4.80	4.79	4.79
12.00	4.78									

SUBCATCHMENT 5 Basin K - Subbasin 1

PEAK= 65.34 CFS @ 8.01 HRS, VOLUME= 10.64 AF

ACRES	CN		
8.03	98	Paved Streets	
11.82	92	Commercial	
27.16	90	1/8 Acre Res - Group C Soil	
5.29	66	Forest/Brush - Group B Soil	
7.60	85	1/8 Acre Res - Group B Soil	
59.90	89		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.4

SUBCATCHMENT 5 RUNOFF PEAK= 65.34 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	11.22	11.32	11.43	11.54	11.68	11.82	11.98	12.15	12.32	12.49
6.20	12.67	12.83	12.98	13.13	13.26	13.39	13.51	13.63	13.73	13.85
6.40	13.94	14.04	14.14	14.22	14.30	14.39	14.46	14.51	14.56	14.58
6.60	14.56	14.52	14.46	14.38	14.32	14.26	14.21	14.20	14.20	14.21
6.80	14.26	14.31	14.37	14.45	14.54	14.64	14.76	14.88	15.01	15.16
7.00	15.32	15.47	15.65	15.84	16.02	16.23	16.44	16.66	16.89	17.14
7.20	17.38	17.65	17.92	18.20	18.49	18.80	19.10	19.43	19.77	20.10
7.40	20.45	20.83	21.19	21.58	21.98	22.39	22.85	23.51	24.49	25.97
7.60	28.12	30.89	34.11	37.56	41.04	44.38	47.54	50.35	52.76	54.90
7.80	56.75	58.37	59.83	61.07	62.12	63.06	63.80	64.38	64.86	65.16
8.00	65.30	65.32	65.06	64.43	63.43	61.92	59.90	57.61	55.12	52.56
8.20	50.11	47.79	45.63	43.72	42.01	40.42	38.97	37.63	36.35	35.19
8.40	34.10	33.05	32.08	31.18	30.30	29.50	28.76	28.07	27.49	27.03
8.60	26.68	26.46	26.33	26.24	26.18	26.12	26.03	25.91	25.76	25.57
8.80	25.36	25.14	24.89	24.65	24.40	24.14	23.87	23.62	23.35	23.08
9.00	22.83	22.57	22.30	22.06	21.79	21.53	21.28	21.02	20.75	20.51
9.20	20.27	20.02	19.80	19.58	19.36	19.17	18.97	18.77	18.60	18.42
9.40	18.24	18.09	17.93	17.78	17.64	17.51	17.37	17.26	17.16	17.07
9.60	17.01	16.98	16.94	16.93	16.92	16.90	16.88	16.85	16.81	16.77
9.80	16.72	16.66	16.61	16.56	16.49	16.43	16.37	16.30	16.24	16.18
10.00	16.11	16.04	15.98	15.90	15.83	15.76	15.67	15.58	15.50	15.41
10.20	15.32	15.25	15.17	15.09	15.03	14.96	14.90	14.84	14.78	14.73
10.40	14.68	14.63	14.57	14.54	14.49	14.44	14.41	14.38	14.34	14.34
10.60	14.33	14.33	14.35	14.36	14.37	14.38	14.38	14.37	14.36	14.34
10.80	14.31	14.28	14.25	14.21	14.17	14.14	14.09	14.05	14.01	13.96
11.00	13.92	13.88	13.83	13.79	13.74	13.69	13.65	13.61	13.56	13.51
11.20	13.47	13.42	13.37	13.33	13.28	13.23	13.19	13.14	13.09	13.05
11.40	13.00	12.95	12.91	12.86	12.81	12.77	12.72	12.67	12.62	12.56
11.60	12.50	12.44	12.37	12.30	12.24	12.18	12.11	12.07	12.01	11.96
11.80	11.93	11.88	11.84	11.81	11.78	11.74	11.72	11.69	11.67	11.65
12.00	11.63									

SUBCATCHMENT 6 Basin K - Subbasin 2

PEAK= 78.37 CFS @ 8.01 HRS, VOLUME= 12.79 AF

ACRES	CN	
10.82	98	Paved Streets
13.91	91	Commercial/Industrial
4.22	81	1/3 Acre Res - Group C Soil
2.75	77	Forest/Brush - Group C Soil
34.17	85	1/8 Acre Res - Group B Soil
12.27	74	Cemetery - Group C Soil
78.14	86	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.1

SUBCATCHMENT 6 RUNOFF PEAK= 78.37 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	12.15	12.27	12.40	12.55	12.70	12.88	13.08	13.28	13.48	13.69
6.20	13.89	14.08	14.26	14.44	14.59	14.75	14.90	15.04	15.18	15.32
6.40	15.44	15.56	15.68	15.79	15.89	16.00	16.10	16.17	16.24	16.27
6.60	16.25	16.22	16.16	16.09	16.03	15.98	15.94	15.94	15.96	16.00
6.80	16.06	16.14	16.23	16.33	16.45	16.59	16.72	16.89	17.06	17.23
7.00	17.42	17.63	17.84	18.06	18.31	18.55	18.81	19.09	19.37	19.66
7.20	19.97	20.29	20.61	20.96	21.32	21.68	22.06	22.46	22.85	23.27
7.40	23.71	24.14	24.59	25.07	25.55	26.05	26.65	27.47	28.72	30.60
7.60	33.26	36.65	40.55	44.72	48.87	52.88	56.61	59.92	62.79	65.35
7.80	67.58	69.54	71.32	72.85	74.15	75.31	76.27	77.02	77.63	78.08
8.00	78.31	78.36	78.13	77.41	76.16	74.32	71.85	68.97	65.96	62.89
8.20	59.91	57.16	54.65	52.40	50.40	48.57	46.85	45.26	43.81	42.41
8.40	41.11	39.91	38.76	37.67	36.68	35.72	34.82	34.03	33.35	32.80
8.60	32.43	32.22	32.10	32.04	32.01	31.94	31.85	31.73	31.53	31.29
8.80	31.05	30.77	30.47	30.19	29.88	29.56	29.25	28.94	28.61	28.30
9.00	28.00	27.68	27.36	27.06	26.74	26.42	26.12	25.80	25.49	25.19
9.20	24.90	24.61	24.34	24.08	23.81	23.57	23.34	23.10	22.88	22.68
9.40	22.47	22.27	22.09	21.91	21.73	21.58	21.43	21.28	21.17	21.08
9.60	21.01	20.97	20.95	20.93	20.91	20.91	20.87	20.84	20.80	20.74
9.80	20.68	20.63	20.56	20.48	20.42	20.35	20.26	20.19	20.12	20.03
10.00	19.95	19.88	19.79	19.70	19.62	19.52	19.41	19.31	19.21	19.10
10.20	19.00	18.91	18.81	18.73	18.65	18.56	18.49	18.42	18.35	18.28
10.40	18.23	18.17	18.10	18.06	18.00	17.95	17.91	17.87	17.83	17.82
10.60	17.83	17.83	17.85	17.88	17.89	17.90	17.91	17.90	17.87	17.85
10.80	17.82	17.78	17.74	17.70	17.65	17.60	17.56	17.50	17.45	17.40
11.00	17.34	17.29	17.24	17.18	17.12	17.07	17.02	16.95	16.90	16.85
11.20	16.79	16.73	16.68	16.62	16.56	16.51	16.45	16.39	16.34	16.28
11.40	16.22	16.17	16.11	16.05	15.99	15.94	15.87	15.82	15.76	15.68
11.60	15.61	15.53	15.44	15.36	15.28	15.20	15.13	15.07	15.01	14.95
11.80	14.90	14.85	14.80	14.76	14.73	14.69	14.65	14.63	14.60	14.57
12.00	14.55									

SUBCATCHMENT 7 Basin K - Subbasin 3

PEAK= 20.89 CFS @ 7.98 HRS, VOLUME= 3.38 AF

ACRES	CN		
2.29	98	Paved Streets	
7.53	94	Commercial	
5.92	81	1/3 Acre Res - Group C Soil	
4.87	76	Forest/Brush - Group C Soil	
20.61	86		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.5

SUBCATCHMENT 7 RUNOFF PEAK= 20.89 CFS @ 7.98 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.27	3.30	3.34	3.38	3.43	3.49	3.55	3.61	3.66	3.72
6.20	3.77	3.81	3.86	3.90	3.94	3.98	4.01	4.05	4.08	4.11
6.40	4.14	4.17	4.20	4.23	4.25	4.28	4.30	4.31	4.32	4.31
6.60	4.29	4.26	4.23	4.21	4.20	4.19	4.19	4.20	4.22	4.24
6.80	4.26	4.29	4.32	4.36	4.40	4.44	4.48	4.53	4.58	4.64
7.00	4.69	4.75	4.81	4.88	4.95	5.02	5.10	5.17	5.25	5.34
7.20	5.42	5.52	5.61	5.71	5.81	5.91	6.02	6.12	6.24	6.36
7.40	6.48	6.60	6.73	6.86	6.99	7.13	7.31	7.62	8.15	8.98
7.60	10.09	11.36	12.66	13.91	15.03	15.99	16.80	17.49	18.09	18.62
7.80	19.08	19.47	19.82	20.11	20.35	20.54	20.69	20.80	20.87	20.89
8.00	20.86	20.77	20.56	20.17	19.55	18.71	17.76	16.79	15.86	15.02
8.20	14.31	13.69	13.15	12.65	12.20	11.79	11.41	11.05	10.72	10.41
8.40	10.12	9.84	9.58	9.33	9.10	8.88	8.69	8.52	8.40	8.34
8.60	8.33	8.35	8.38	8.39	8.40	8.37	8.33	8.27	8.21	8.14
8.80	8.06	7.98	7.89	7.81	7.72	7.64	7.55	7.47	7.39	7.30
9.00	7.22	7.14	7.05	6.97	6.89	6.81	6.72	6.64	6.56	6.48
9.20	6.41	6.34	6.27	6.21	6.14	6.08	6.03	5.97	5.92	5.87
9.40	5.82	5.77	5.72	5.68	5.64	5.60	5.57	5.54	5.52	5.50
9.60	5.50	5.50	5.51	5.51	5.51	5.50	5.49	5.48	5.46	5.44
9.80	5.43	5.41	5.39	5.37	5.35	5.33	5.31	5.29	5.27	5.24
10.00	5.22	5.20	5.18	5.15	5.13	5.10	5.07	5.04	5.01	4.98
10.20	4.96	4.94	4.91	4.89	4.87	4.85	4.84	4.82	4.80	4.79
10.40	4.77	4.76	4.74	4.73	4.72	4.71	4.70	4.69	4.69	4.69
10.60	4.70	4.71	4.72	4.72	4.73	4.73	4.72	4.72	4.71	4.70
10.80	4.68	4.67	4.66	4.65	4.63	4.62	4.61	4.59	4.58	4.56
11.00	4.55	4.53	4.52	4.50	4.49	4.47	4.46	4.44	4.43	4.41
11.20	4.40	4.38	4.37	4.35	4.34	4.32	4.31	4.29	4.28	4.26
11.40	4.25	4.23	4.22	4.20	4.19	4.17	4.16	4.14	4.12	4.10
11.60	4.08	4.05	4.03	4.01	3.99	3.97	3.95	3.94	3.93	3.91
11.80	3.90	3.89	3.88	3.87	3.86	3.85	3.85	3.84	3.83	3.83
12.00	3.82									

SUBCATCHMENT 8 Basin L - Overall

PEAK= 211.1 CFS @ 8.29 HRS, VOLUME= 41.38 AF

ACRES	CN		
34.54	98	Paved Streets	SCS TR-20 METHOD
52.43	85	1/8 Acre Res - Group B Soil	TYPE IA 24-HOUR
43.71	75	1/4 Acre Res - Group B Soil	RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS
5.21	65	2 Acre Res - Group B Soil	
18.29	88	Industrial	
35.99	92	Commercial	
22.59	65	Forest / Open Space	
50.86	90	1/8 Acre Res - Group C Soil	
263.62	85		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	37.5

SUBCATCHMENT 8 RUNOFF PEAK= 211.1 CFS @ 8.29 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	32.4	32.7	33.0	33.3	33.6	34.0	34.3	34.6	34.9	35.3
6.20	35.7	36.0	36.4	36.8	37.2	37.6	38.1	38.5	39.0	39.5
6.40	39.9	40.4	40.9	41.4	41.8	42.3	42.8	43.3	43.7	44.2
6.60	44.7	45.1	45.5	45.9	46.3	46.7	47.0	47.4	47.7	48.0
6.80	48.3	48.5	48.7	49.0	49.2	49.3	49.5	49.8	50.0	50.1
7.00	50.3	50.6	50.8	51.1	51.3	51.6	52.0	52.3	52.6	53.0
7.20	53.5	53.9	54.3	54.9	55.4	56.0	56.5	57.2	57.9	58.6
7.40	59.3	60.0	60.9	61.7	62.5	63.4	64.4	65.4	66.4	67.5
7.60	68.9	70.3	72.0	73.8	76.0	78.4	81.2	84.1	87.8	91.7
7.80	96.1	100.8	106.0	111.5	117.2	123.1	129.2	135.4	141.7	147.9
8.00	154.2	160.5	166.6	172.3	178.0	183.4	188.6	193.0	197.2	200.9
8.20	204.3	206.6	208.6	209.9	211.0	210.9	210.5	209.6	208.5	206.6
8.40	204.2	201.8	199.2	196.1	192.7	189.2	185.8	182.1	178.2	174.4
8.60	170.7	167.0	163.2	159.4	156.0	152.7	149.4	146.3	143.5	140.7
8.80	138.1	135.5	133.2	131.1	128.9	126.8	125.0	123.2	121.5	119.7
9.00	118.1	116.7	115.2	113.7	112.3	111.0	109.8	108.4	107.1	105.9
9.20	104.7	103.4	102.1	100.9	99.8	98.6	97.3	96.2	95.2	94.1
9.40	92.9	91.8	90.9	89.8	88.7	87.7	86.8	85.9	84.9	84.0
9.60	83.2	82.3	81.5	80.6	79.9	79.2	78.5	77.8	77.2	76.6
9.80	76.0	75.4	74.9	74.5	74.0	73.5	73.1	72.8	72.4	72.0
10.00	71.6	71.4	71.0	70.7	70.3	70.1	69.8	69.5	69.2	68.9
10.20	68.7	68.3	68.0	67.7	67.5	67.1	66.8	66.5	66.3	66.0
10.40	65.6	65.3	65.1	64.8	64.5	64.2	64.0	63.7	63.4	63.1
10.60	62.9	62.7	62.4	62.2	62.0	61.8	61.6	61.4	61.2	61.1
10.80	60.9	60.8	60.7	60.6	60.4	60.3	60.2	60.1	60.0	59.9
11.00	59.8	59.7	59.6	59.5	59.3	59.3	59.2	59.0	58.8	58.8
11.20	58.7	58.5	58.3	58.2	58.1	57.9	57.7	57.6	57.4	57.3
11.40	57.0	56.9	56.8	56.6	56.4	56.2	56.1	55.9	55.7	55.5

SUBCATCHMENT 9 Basin L - Subbasin 1

PEAK= 6.75 CFS @ 7.84 HRS, VOLUME= 1.07 AF

ACRES	CN		
2.12	98	Paved Streets	SCS TR-20 METHOD
3.76	85	1/8 Acre Res - Group B Soil	TYPE IA 24-HOUR
5.88	90		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	2.8

SUBCATCHMENT 9 RUNOFF PEAK= 6.75 CFS @ 7.84 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.26	1.28	1.32	1.35	1.36	1.38	1.39	1.40	1.41	1.42
6.20	1.43	1.44	1.45	1.46	1.47	1.48	1.48	1.49	1.50	1.50
6.40	1.51	1.52	1.52	1.53	1.53	1.53	1.51	1.46	1.43	1.43
6.60	1.43	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51
6.80	1.53	1.54	1.56	1.58	1.59	1.61	1.63	1.65	1.67	1.70
7.00	1.72	1.74	1.77	1.80	1.82	1.85	1.88	1.91	1.94	1.98
7.20	2.01	2.04	2.08	2.12	2.15	2.19	2.23	2.27	2.32	2.36
7.40	2.40	2.45	2.49	2.54	2.59	2.69	3.45	4.64	5.31	5.65
7.60	5.85	6.01	6.14	6.26	6.36	6.45	6.53	6.60	6.66	6.70
7.80	6.73	6.75	6.75	6.75	6.73	6.70	6.65	6.60	6.52	6.44
8.00	6.31	5.75	4.93	4.46	4.22	4.06	3.92	3.81	3.69	3.59
8.20	3.48	3.39	3.29	3.20	3.11	3.03	2.95	2.87	2.80	2.73
8.40	2.67	2.61	2.56	2.50	2.46	2.42	2.48	2.61	2.66	2.65
8.60	2.63	2.60	2.57	2.54	2.51	2.48	2.45	2.42	2.39	2.36
8.80	2.33	2.30	2.28	2.25	2.22	2.20	2.17	2.14	2.12	2.10
9.00	2.07	2.04	2.01	1.98	1.96	1.94	1.92	1.90	1.88	1.86
9.20	1.84	1.83	1.81	1.79	1.78	1.76	1.75	1.74	1.72	1.71
9.40	1.70	1.69	1.68	1.67	1.66	1.65	1.66	1.69	1.69	1.69
9.60	1.69	1.68	1.67	1.67	1.66	1.65	1.65	1.64	1.63	1.63
9.80	1.62	1.61	1.61	1.60	1.59	1.58	1.58	1.57	1.56	1.56
10.00	1.55	1.54	1.52	1.51	1.50	1.50	1.49	1.48	1.48	1.47
10.20	1.47	1.46	1.46	1.45	1.45	1.44	1.44	1.43	1.43	1.43
10.40	1.42	1.42	1.42	1.41	1.41	1.41	1.42	1.44	1.44	1.44
10.60	1.44	1.44	1.43	1.43	1.42	1.42	1.41	1.41	1.40	1.40
10.80	1.39	1.39	1.38	1.38	1.38	1.37	1.37	1.36	1.36	1.35
11.00	1.35	1.34	1.34	1.33	1.33	1.32	1.32	1.32	1.31	1.31
11.20	1.30	1.30	1.29	1.29	1.28	1.28	1.27	1.27	1.26	1.26
11.40	1.25	1.25	1.24	1.24	1.24	1.23	1.22	1.20	1.20	1.19
11.60	1.19	1.18	1.18	1.18	1.17	1.17	1.17	1.16	1.16	1.16
11.80	1.16	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
12.00	1.14									

TYPE IA 24-HOUR RAINFALL= 5.50 IN
Prepared by HBH Consulting Engineers, Inc. 9 Jan 06
HydroCAD 5.11 001354 (c) 1986-1999 Applied Microcomputer Systems

SUBCATCHMENT 1 Basin M - Overall

PEAK= 75.79 CFS @ 9.13 HRS, VOLUME= 18.87 AF

ACRES	CN	
7.90	98	Paved Streets
22.80	85	1/8 Acre Res - Group B Soil
13.90	92	Commercial
7.00	88	Industrial
80.00	73	Wetlands
145.40	58	Forest - Group B Soil
277.00	68	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	85.0

SUBCATCHMENT 1 RUNOFF PEAK= 75.79 CFS @ 9.13 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.18	.20	.23	.26	.29	.32	.35	.39	.43	.48
6.20	.52	.56	.62	.68	.73	.79	.85	.93	1.00	1.08
6.40	1.15	1.23	1.32	1.41	1.50	1.59	1.70	1.81	1.92	2.02
6.60	2.13	2.26	2.38	2.51	2.64	2.77	2.91	3.05	3.19	3.33
6.80	3.48	3.64	3.80	3.95	4.11	4.28	4.44	4.61	4.78	4.95
7.00	5.13	5.31	5.49	5.67	5.85	6.04	6.23	6.41	6.60	6.79
7.20	6.99	7.19	7.39	7.59	7.80	8.00	8.21	8.41	8.62	8.85
7.40	9.07	9.30	9.53	9.76	10.00	10.23	10.47	10.71	10.98	11.27
7.60	11.55	11.83	12.12	12.44	12.76	13.09	13.41	13.77	14.20	14.64
7.80	15.08	15.51	16.02	16.58	17.14	17.71	18.28	18.99	19.73	20.48
8.00	21.23	22.02	22.96	23.92	24.88	25.84	26.88	28.05	29.22	30.40
8.20	31.57	32.88	34.25	35.63	37.01	38.39	39.85	41.33	42.81	44.29
8.40	45.77	47.27	48.78	50.28	51.78	53.23	54.64	56.05	57.46	58.86
8.60	60.12	61.31	62.51	63.71	64.87	65.90	66.90	67.91	68.91	69.80
8.80	70.47	71.13	71.79	72.45	73.00	73.48	73.96	74.45	74.90	75.12
9.00	75.27	75.42	75.57	75.70	75.72	75.75	75.77	75.79	75.70	75.48
9.20	75.25	75.03	74.80	74.53	74.24	73.95	73.66	73.36	72.95	72.53
9.40	72.10	71.68	71.26	70.83	70.41	69.99	69.57	69.12	68.65	68.18
9.60	67.71	67.24	66.81	66.38	65.96	65.53	65.10	64.66	64.21	63.76
9.80	63.32	62.89	62.49	62.10	61.70	61.31	60.90	60.49	60.08	59.67
10.00	59.27	58.90	58.54	58.18	57.82	57.45	57.08	56.70	56.33	55.95
10.20	55.61	55.29	54.98	54.66	54.35	54.02	53.70	53.38	53.05	52.74
10.40	52.47	52.20	51.94	51.67	51.40	51.13	50.85	50.57	50.29	50.05
10.60	49.83	49.61	49.40	49.18	48.94	48.70	48.47	48.23	48.01	47.82
10.80	47.64	47.46	47.27	47.08	46.88	46.68	46.48	46.28	46.12	45.97
11.00	45.82	45.67	45.52	45.35	45.18	45.01	44.84	44.69	44.57	44.44
11.20	44.32	44.20	44.07	43.93	43.78	43.64	43.50	43.39	43.29	43.19
11.40	43.09	42.99	42.87	42.74	42.62	42.49	42.38	42.30	42.21	42.12
11.60	42.03	41.93	41.82	41.70	41.59	41.48	41.39	41.31	41.23	41.15
11.80	41.06	40.95	40.84	40.73	40.61	40.52	40.43	40.35	40.27	40.18
12.00	40.07									

SUBCATCHMENT 2 Basin M - Subbasin 1

PEAK= 7.94 CFS @ 8.16 HRS, VOLUME= 1.44 AF

ACRES	CN		
1.77	98	Paved Streets	SCS TR-20 METHOD
2.92	92	Commercial - Group B Soil	TYPE IA 24-HOUR
.92	85	Trailer Park	RAINFALL= 5.50 IN
5.96	65	Forest/Brush - Fair Condition	SPAN= 6-12 HRS, dt=.02 HRS
11.57	78		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	25.4

SUBCATCHMENT 2 RUNOFF PEAK= 7.94 CFS @ 8.16 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.85	.86	.87	.88	.89	.91	.92	.94	.95	.97
6.20	.98	1.00	1.02	1.03	1.05	1.07	1.09	1.11	1.12	1.14
6.40	1.16	1.18	1.20	1.21	1.23	1.25	1.26	1.28	1.29	1.31
6.60	1.32	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.40	1.41
6.80	1.42	1.42	1.43	1.43	1.44	1.45	1.46	1.47	1.48	1.49
7.00	1.50	1.52	1.53	1.55	1.57	1.58	1.60	1.62	1.64	1.67
7.20	1.69	1.71	1.74	1.77	1.80	1.83	1.86	1.89	1.92	1.96
7.40	1.99	2.03	2.07	2.11	2.15	2.19	2.24	2.29	2.34	2.41
7.60	2.48	2.58	2.69	2.82	2.98	3.17	3.38	3.62	3.87	4.14
7.80	4.42	4.70	4.99	5.28	5.56	5.84	6.11	6.36	6.61	6.83
8.00	7.03	7.23	7.40	7.55	7.68	7.79	7.86	7.92	7.94	7.93
8.20	7.90	7.82	7.72	7.61	7.46	7.31	7.15	6.97	6.80	6.62
8.40	6.43	6.25	6.08	5.90	5.74	5.59	5.44	5.30	5.16	5.03
8.60	4.91	4.79	4.69	4.59	4.50	4.42	4.35	4.28	4.22	4.17
8.80	4.12	4.08	4.03	3.99	3.96	3.92	3.88	3.85	3.81	3.78
9.00	3.74	3.70	3.67	3.63	3.59	3.55	3.52	3.48	3.44	3.40
9.20	3.37	3.33	3.30	3.26	3.23	3.19	3.16	3.12	3.09	3.06
9.40	3.03	3.00	2.97	2.94	2.91	2.89	2.86	2.83	2.81	2.79
9.60	2.77	2.75	2.73	2.71	2.70	2.68	2.67	2.66	2.65	2.64
9.80	2.63	2.62	2.61	2.60	2.60	2.59	2.58	2.58	2.57	2.56
10.00	2.55	2.55	2.54	2.53	2.52	2.51	2.50	2.49	2.48	2.48
10.20	2.46	2.46	2.45	2.43	2.43	2.42	2.40	2.39	2.38	2.37
10.40	2.37	2.36	2.35	2.34	2.33	2.32	2.31	2.30	2.30	2.29
10.60	2.28	2.28	2.28	2.27	2.27	2.26	2.26	2.26	2.26	2.26
10.80	2.26	2.25	2.25	2.25	2.25	2.25	2.25	2.24	2.24	2.24
11.00	2.23	2.23	2.22	2.22	2.22	2.21	2.20	2.20	2.19	2.19
11.20	2.18	2.17	2.17	2.16	2.16	2.15	2.15	2.14	2.13	2.13
11.40	2.12	2.12	2.11	2.10	2.10	2.09	2.08	2.08	2.07	2.06
11.60	2.06	2.05	2.04	2.03	2.02	2.02	2.01	2.00	1.99	1.98
11.80	1.98	1.97	1.96	1.95	1.95	1.94	1.93	1.93	1.92	1.91
12.00	1.91									

SUBCATCHMENT 3 Basin M - Subbasin 2

PEAK= 13.72 CFS @ 7.91 HRS, VOLUME= 2.19 AF

ACRES	CN		
3.40	98	Paved Streets	SCS TR-20 METHOD
8.35	86	1/5 Acre Res - Group C Soil	TYPE IA 24-HOUR
.58	72	Forest - Group C Soil	RAINFALL= 5.50 IN
12.33	89		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path - Velocity Method	7.2

SUBCATCHMENT 3 RUNOFF PEAK= 13.72 CFS @ 7.91 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.41	2.43	2.46	2.50	2.55	2.60	2.64	2.68	2.71	2.74
6.20	2.76	2.79	2.81	2.83	2.86	2.88	2.90	2.91	2.93	2.95
6.40	2.97	2.98	3.00	3.01	3.02	3.04	3.04	3.04	3.01	2.98
6.60	2.94	2.91	2.90	2.89	2.89	2.90	2.91	2.93	2.94	2.96
6.80	2.99	3.01	3.04	3.06	3.09	3.13	3.16	3.19	3.23	3.27
7.00	3.31	3.36	3.40	3.45	3.50	3.55	3.60	3.66	3.72	3.78
7.20	3.84	3.90	3.97	4.03	4.10	4.18	4.25	4.33	4.41	4.49
7.40	4.57	4.66	4.74	4.83	4.93	5.03	5.21	5.66	6.51	7.63
7.60	8.79	9.80	10.59	11.19	11.67	12.07	12.41	12.68	12.92	13.13
7.80	13.30	13.44	13.55	13.64	13.69	13.72	13.72	13.70	13.65	13.57
8.00	13.47	13.29	12.92	12.26	11.42	10.58	9.84	9.27	8.81	8.43
8.20	8.11	7.82	7.55	7.31	7.09	6.88	6.68	6.50	6.32	6.15
8.40	5.99	5.84	5.70	5.57	5.44	5.33	5.23	5.18	5.20	5.26
8.60	5.32	5.36	5.37	5.35	5.32	5.27	5.22	5.17	5.12	5.06
8.80	5.00	4.94	4.88	4.83	4.77	4.71	4.66	4.60	4.55	4.50
9.00	4.44	4.39	4.34	4.28	4.23	4.17	4.12	4.07	4.03	3.98
9.20	3.94	3.90	3.86	3.82	3.78	3.75	3.72	3.68	3.65	3.62
9.40	3.60	3.57	3.54	3.52	3.50	3.48	3.46	3.45	3.45	3.46
9.60	3.47	3.48	3.48	3.47	3.46	3.45	3.44	3.43	3.42	3.40
9.80	3.39	3.38	3.36	3.35	3.34	3.32	3.31	3.29	3.28	3.26
10.00	3.25	3.24	3.22	3.20	3.18	3.16	3.14	3.12	3.10	3.09
10.20	3.08	3.06	3.05	3.04	3.03	3.02	3.01	3.00	2.99	2.98
10.40	2.97	2.96	2.96	2.95	2.94	2.93	2.93	2.93	2.94	2.95
10.60	2.96	2.97	2.97	2.97	2.96	2.96	2.95	2.94	2.93	2.92
10.80	2.92	2.91	2.90	2.89	2.88	2.87	2.86	2.85	2.84	2.83
11.00	2.82	2.81	2.80	2.79	2.78	2.77	2.76	2.76	2.75	2.74
11.20	2.73	2.72	2.71	2.70	2.69	2.68	2.67	2.66	2.65	2.64
11.40	2.63	2.62	2.61	2.60	2.59	2.58	2.57	2.56	2.54	2.52
11.60	2.51	2.49	2.48	2.47	2.46	2.45	2.44	2.43	2.43	2.42
11.80	2.41	2.41	2.40	2.40	2.39	2.39	2.39	2.38	2.38	2.38
12.00	2.38									

SUBCATCHMENT 4 Basin O - Subbasin 1

PEAK= 12.76 CFS @ 7.97 HRS, VOLUME= 2.07 AF

ACRES	CN		
1.95	98	Paved Streets	SCS TR-20 METHOD
12.30	80	1/5 Acre Res - Group B Soil	TYPE IA 24-HOUR
14.25	82		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	8.6

SUBCATCHMENT 4 RUNOFF PEAK= 12.76 CFS @ 7.97 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.73	1.75	1.78	1.81	1.84	1.88	1.92	1.95	1.99	2.02
6.20	2.04	2.07	2.09	2.12	2.14	2.16	2.19	2.21	2.23	2.25
6.40	2.27	2.28	2.30	2.32	2.34	2.35	2.37	2.37	2.37	2.36
6.60	2.34	2.32	2.31	2.31	2.31	2.31	2.32	2.34	2.35	2.37
6.80	2.39	2.41	2.44	2.46	2.49	2.52	2.55	2.58	2.61	2.65
7.00	2.69	2.73	2.77	2.81	2.86	2.90	2.95	3.00	3.05	3.11
7.20	3.16	3.22	3.28	3.34	3.41	3.47	3.54	3.61	3.68	3.76
7.40	3.83	3.91	3.99	4.08	4.16	4.25	4.39	4.66	5.17	5.92
7.60	6.81	7.70	8.53	9.22	9.78	10.26	10.67	11.02	11.33	11.60
7.80	11.84	12.05	12.23	12.38	12.51	12.61	12.68	12.73	12.76	12.75
8.00	12.72	12.62	12.42	12.03	11.45	10.78	10.11	9.50	8.98	8.56
8.20	8.21	7.89	7.61	7.36	7.13	6.91	6.71	6.52	6.34	6.17
8.40	6.01	5.86	5.72	5.58	5.45	5.34	5.23	5.16	5.13	5.15
8.60	5.19	5.23	5.26	5.26	5.25	5.22	5.18	5.14	5.10	5.05
8.80	4.99	4.94	4.89	4.84	4.78	4.73	4.68	4.63	4.57	4.52
9.00	4.47	4.42	4.37	4.32	4.27	4.22	4.17	4.12	4.07	4.03
9.20	3.98	3.94	3.90	3.87	3.83	3.80	3.76	3.73	3.70	3.67
9.40	3.64	3.61	3.59	3.56	3.54	3.52	3.50	3.49	3.48	3.48
9.60	3.49	3.50	3.50	3.50	3.50	3.49	3.48	3.47	3.46	3.45
9.80	3.44	3.43	3.42	3.40	3.39	3.38	3.36	3.35	3.34	3.33
10.00	3.31	3.30	3.28	3.27	3.25	3.23	3.21	3.19	3.18	3.16
10.20	3.15	3.13	3.12	3.11	3.10	3.09	3.08	3.07	3.06	3.05
10.40	3.04	3.03	3.03	3.02	3.01	3.01	3.00	3.00	3.00	3.01
10.60	3.02	3.03	3.03	3.04	3.04	3.03	3.03	3.02	3.01	3.01
10.80	3.00	2.99	2.98	2.97	2.96	2.96	2.95	2.94	2.93	2.92
11.00	2.91	2.90	2.89	2.88	2.87	2.87	2.86	2.85	2.84	2.83
11.20	2.82	2.81	2.80	2.79	2.78	2.77	2.76	2.75	2.74	2.73
11.40	2.73	2.72	2.71	2.70	2.69	2.68	2.67	2.66	2.64	2.63
11.60	2.61	2.60	2.58	2.57	2.56	2.55	2.54	2.53	2.52	2.52
11.80	2.51	2.50	2.50	2.49	2.49	2.48	2.48	2.48	2.47	2.47
12.00	2.47									

SUBCATCHMENT 5 Basin O - Subbasin 2

PEAK= 14.03 CFS @ 8.01 HRS, VOLUME= 2.29 AF

ACRES	CN		
2.46	98	Paved Streets	SCS TR-20 METHOD
12.87	80	1/5 Acre Res - Group B Soil	TYPE IA 24-HOUR
15.33	83		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	12.1

SUBCATCHMENT 5 RUNOFF PEAK= 14.03 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.95	1.97	1.99	2.02	2.05	2.08	2.12	2.16	2.19	2.23
6.20	2.26	2.30	2.33	2.36	2.39	2.41	2.44	2.47	2.49	2.51
6.40	2.54	2.56	2.58	2.60	2.62	2.64	2.66	2.68	2.69	2.69
6.60	2.69	2.68	2.67	2.66	2.65	2.65	2.64	2.65	2.66	2.67
6.80	2.68	2.70	2.72	2.74	2.77	2.79	2.82	2.85	2.88	2.92
7.00	2.95	2.99	3.03	3.07	3.12	3.17	3.21	3.26	3.32	3.37
7.20	3.43	3.49	3.55	3.61	3.67	3.74	3.81	3.88	3.96	4.03
7.40	4.11	4.19	4.28	4.36	4.45	4.55	4.65	4.81	5.06	5.45
7.60	6.01	6.71	7.48	8.27	9.03	9.75	10.38	10.93	11.40	11.83
7.80	12.21	12.54	12.84	13.10	13.33	13.52	13.68	13.82	13.92	13.99
8.00	14.03	14.03	13.96	13.80	13.53	13.13	12.63	12.07	11.49	10.93
8.20	10.41	9.93	9.52	9.15	8.81	8.50	8.21	7.95	7.70	7.47
8.40	7.25	7.05	6.85	6.67	6.50	6.34	6.19	6.06	5.95	5.88
8.60	5.83	5.81	5.81	5.81	5.81	5.81	5.79	5.76	5.73	5.68
8.80	5.64	5.59	5.53	5.48	5.42	5.37	5.31	5.25	5.20	5.14
9.00	5.08	5.03	4.97	4.92	4.86	4.80	4.75	4.69	4.63	4.58
9.20	4.53	4.48	4.43	4.38	4.34	4.30	4.25	4.21	4.18	4.14
9.40	4.10	4.07	4.04	4.01	3.98	3.95	3.92	3.90	3.88	3.87
9.60	3.86	3.86	3.85	3.86	3.85	3.85	3.85	3.84	3.83	3.82
9.80	3.81	3.80	3.79	3.77	3.76	3.75	3.74	3.72	3.71	3.69
10.00	3.68	3.66	3.65	3.63	3.62	3.60	3.58	3.56	3.54	3.52
10.20	3.50	3.49	3.47	3.46	3.44	3.43	3.41	3.40	3.39	3.38
10.40	3.37	3.36	3.35	3.34	3.33	3.32	3.32	3.31	3.30	3.30
10.60	3.31	3.31	3.32	3.32	3.33	3.33	3.33	3.32	3.32	3.31
10.80	3.31	3.30	3.29	3.28	3.27	3.27	3.26	3.25	3.24	3.23
11.00	3.22	3.21	3.20	3.19	3.18	3.17	3.16	3.15	3.14	3.13
11.20	3.12	3.11	3.10	3.09	3.08	3.07	3.06	3.05	3.04	3.03
11.40	3.02	3.00	2.99	2.98	2.97	2.96	2.95	2.94	2.93	2.91
11.60	2.90	2.89	2.87	2.85	2.84	2.83	2.81	2.80	2.79	2.78
11.80	2.77	2.76	2.76	2.75	2.74	2.74	2.73	2.73	2.72	2.72
12.00	2.71									

SUBCATCHMENT 6 Basin O - Subbasin 3

PEAK= 25.78 CFS @ 8.01 HRS, VOLUME= 4.33 AF

ACRES	CN	
4.12	98	Paved Streets
21.80	72	1/3 Acre Res - Group B Soil
32.79	58	Forest - Group B Soil
1.00	85	1/8 Acre Res - Group B Soil
59.71	66	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	8.3

SUBCATCHMENT 6 RUNOFF PEAK= 25.78 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.46	.50	.55	.59	.64	.70	.75	.80	.86	.91
6.20	.96	1.02	1.07	1.12	1.18	1.23	1.29	1.34	1.39	1.45
6.40	1.50	1.56	1.61	1.66	1.71	1.77	1.82	1.86	1.90	1.92
6.60	1.94	1.96	1.99	2.02	2.05	2.09	2.14	2.18	2.23	2.28
6.80	2.34	2.39	2.45	2.51	2.57	2.63	2.70	2.77	2.84	2.92
7.00	2.99	3.07	3.16	3.24	3.33	3.42	3.52	3.62	3.73	3.83
7.20	3.95	4.06	4.18	4.30	4.43	4.57	4.70	4.85	5.00	5.15
7.40	5.31	5.47	5.64	5.82	6.00	6.19	6.46	6.97	7.89	9.22
7.60	10.78	12.37	13.84	15.13	16.24	17.25	18.18	19.04	19.84	20.59
7.80	21.30	21.96	22.58	23.16	23.69	24.16	24.59	24.96	25.27	25.53
8.00	25.71	25.77	25.53	24.86	23.77	22.46	21.16	20.01	19.07	18.31
8.20	17.66	17.09	16.58	16.11	15.68	15.28	14.90	14.54	14.19	13.87
8.40	13.56	13.26	12.98	12.72	12.47	12.24	12.04	11.91	11.89	11.99
8.60	12.13	12.27	12.36	12.39	12.38	12.34	12.28	12.20	12.11	12.02
8.80	11.92	11.82	11.72	11.62	11.51	11.41	11.30	11.20	11.10	10.99
9.00	10.89	10.79	10.68	10.58	10.47	10.35	10.25	10.14	10.04	9.95
9.20	9.86	9.77	9.69	9.61	9.54	9.46	9.39	9.33	9.26	9.20
9.40	9.14	9.09	9.04	8.99	8.94	8.90	8.86	8.84	8.84	8.87
9.60	8.90	8.93	8.95	8.95	8.95	8.94	8.93	8.92	8.90	8.88
9.80	8.86	8.84	8.81	8.79	8.77	8.74	8.72	8.69	8.67	8.64
10.00	8.62	8.59	8.56	8.53	8.48	8.44	8.40	8.36	8.32	8.29
10.20	8.27	8.24	8.21	8.19	8.17	8.15	8.13	8.11	8.10	8.08
10.40	8.06	8.05	8.04	8.03	8.01	8.00	8.00	8.00	8.02	8.05
10.60	8.08	8.11	8.14	8.15	8.15	8.15	8.14	8.13	8.11	8.10
10.80	8.09	8.07	8.05	8.03	8.02	8.00	7.98	7.96	7.94	7.93
11.00	7.91	7.89	7.87	7.85	7.83	7.81	7.79	7.77	7.75	7.73
11.20	7.71	7.69	7.67	7.65	7.63	7.61	7.59	7.57	7.55	7.52
11.40	7.50	7.48	7.46	7.44	7.42	7.40	7.37	7.35	7.31	7.27
11.60	7.23	7.19	7.16	7.13	7.10	7.08	7.06	7.04	7.02	7.01
11.80	6.99	6.98	6.97	6.96	6.95	6.94	6.94	6.93	6.93	6.93
12.00	6.92									

SUBCATCHMENT 7 Basin O - Subbasin 4

PEAK= 9.97 CFS @ 7.95 HRS, VOLUME= 1.62 AF

ACRES	CN		
2.69	98	Paved Streets	SCS TR-20 METHOD
10.67	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
13.36	77		RAINFALL= 5.50 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.0

SUBCATCHMENT 7 RUNOFF PEAK= 9.97 CFS @ 7.95 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.09	1.11	1.13	1.16	1.19	1.22	1.25	1.27	1.29	1.31
6.20	1.33	1.35	1.37	1.39	1.41	1.42	1.44	1.46	1.47	1.49
6.40	1.51	1.52	1.54	1.55	1.56	1.58	1.59	1.59	1.57	1.55
6.60	1.54	1.54	1.54	1.55	1.56	1.57	1.59	1.60	1.62	1.64
6.80	1.66	1.68	1.70	1.73	1.75	1.78	1.80	1.83	1.86	1.89
7.00	1.92	1.96	1.99	2.03	2.06	2.10	2.14	2.19	2.23	2.27
7.20	2.32	2.37	2.42	2.47	2.52	2.58	2.63	2.69	2.75	2.81
7.40	2.88	2.94	3.01	3.08	3.15	3.23	3.41	3.88	4.68	5.58
7.60	6.37	6.97	7.43	7.80	8.12	8.39	8.64	8.86	9.05	9.23
7.80	9.39	9.53	9.65	9.75	9.84	9.90	9.94	9.97	9.97	9.95
8.00	9.90	9.76	9.39	8.74	8.03	7.43	6.99	6.66	6.39	6.16
8.20	5.97	5.79	5.62	5.47	5.32	5.18	5.05	4.92	4.80	4.68
8.40	4.57	4.47	4.37	4.28	4.19	4.12	4.06	4.06	4.13	4.21
8.60	4.27	4.29	4.28	4.26	4.23	4.19	4.15	4.11	4.07	4.02
8.80	3.98	3.94	3.90	3.86	3.81	3.77	3.73	3.69	3.65	3.61
9.00	3.58	3.54	3.50	3.45	3.41	3.37	3.33	3.30	3.26	3.23
9.20	3.20	3.17	3.14	3.12	3.09	3.06	3.04	3.02	3.00	2.97
9.40	2.95	2.93	2.92	2.90	2.88	2.87	2.86	2.86	2.87	2.89
9.60	2.90	2.90	2.90	2.89	2.89	2.88	2.87	2.86	2.85	2.84
9.80	2.83	2.82	2.81	2.80	2.79	2.78	2.77	2.76	2.75	2.74
10.00	2.73	2.72	2.71	2.69	2.67	2.66	2.64	2.63	2.62	2.61
10.20	2.60	2.59	2.58	2.57	2.57	2.56	2.55	2.55	2.54	2.53
10.40	2.53	2.52	2.52	2.51	2.51	2.50	2.50	2.51	2.52	2.53
10.60	2.54	2.55	2.55	2.55	2.54	2.54	2.53	2.52	2.52	2.51
10.80	2.50	2.50	2.49	2.48	2.47	2.47	2.46	2.45	2.45	2.44
11.00	2.43	2.42	2.42	2.41	2.40	2.40	2.39	2.38	2.37	2.37
11.20	2.36	2.35	2.34	2.34	2.33	2.32	2.31	2.31	2.30	2.29
11.40	2.28	2.28	2.27	2.26	2.25	2.25	2.24	2.22	2.21	2.19
11.60	2.18	2.17	2.16	2.15	2.14	2.14	2.13	2.13	2.12	2.12
11.80	2.11	2.11	2.11	2.10	2.10	2.10	2.10	2.09	2.09	2.09
12.00	2.09									

SUBCATCHMENT 8 Basin P

PEAK= 107.0 CFS @ 8.16 HRS, VOLUME= 19.25 AF

ACRES	CN		SCS TR-20 METHOD
21.56	89	Paved Streets w/ open ditches	TYPE IA 24-HOUR
7.57	75	1/4 Acre Res - Group B Soil	RAINFALL= 5.50 IN
53.87	65	Forest/Brush - Group B Soil	SPAN= 6-12 HRS, dt=.02 HRS
65.00	85	1/8 Acre Res - Group B Soil	
4.00	92	Commercial	
3.00	61	Parks/Open Space	
155.00	78		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	25.0

SUBCATCHMENT 8 RUNOFF PEAK= 107.0 CFS @ 8.16 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	11.4	11.5	11.7	11.9	12.0	12.2	12.4	12.6	12.8	13.0
6.20	13.2	13.4	13.7	13.9	14.1	14.4	14.6	14.9	15.1	15.4
6.40	15.6	15.8	16.1	16.3	16.5	16.8	17.0	17.2	17.4	17.6
6.60	17.8	18.0	18.1	18.3	18.4	18.5	18.6	18.8	18.8	18.9
6.80	19.0	19.1	19.2	19.3	19.3	19.5	19.6	19.7	19.9	20.0
7.00	20.2	20.4	20.6	20.8	21.0	21.3	21.5	21.8	22.1	22.4
7.20	22.7	23.1	23.4	23.8	24.2	24.6	25.0	25.4	25.9	26.3
7.40	26.8	27.3	27.8	28.4	28.9	29.5	30.1	30.7	31.5	32.4
7.60	33.4	34.7	36.2	38.0	40.2	42.9	45.8	49.1	52.6	56.3
7.80	60.2	64.0	68.0	71.9	75.6	79.4	83.0	86.4	89.7	92.5
8.00	95.2	97.8	100.0	102.0	103.8	105.0	106.1	106.8	107.0	106.8
8.20	106.1	105.0	103.6	101.8	99.8	97.7	95.3	92.9	90.5	87.9
8.40	85.5	83.1	80.6	78.4	76.2	74.2	72.2	70.3	68.5	66.8
8.60	65.1	63.7	62.2	60.9	59.8	58.7	57.8	57.0	56.2	55.5
8.80	54.9	54.3	53.8	53.3	52.8	52.4	51.9	51.4	50.9	50.4
9.00	49.9	49.5	48.9	48.4	47.9	47.4	46.9	46.5	45.9	45.5
9.20	45.0	44.5	44.0	43.5	43.1	42.6	42.1	41.7	41.3	40.8
9.40	40.4	40.0	39.6	39.3	38.9	38.5	38.2	37.8	37.6	37.3
9.60	36.9	36.7	36.5	36.2	36.0	35.8	35.7	35.6	35.4	35.3
9.80	35.2	35.0	35.0	34.9	34.8	34.7	34.6	34.5	34.4	34.3
10.00	34.2	34.1	33.9	33.9	33.8	33.6	33.5	33.4	33.2	33.1
10.20	33.0	32.8	32.7	32.6	32.4	32.3	32.1	32.0	31.9	31.7
10.40	31.6	31.5	31.4	31.3	31.2	31.0	31.0	30.8	30.8	30.7
10.60	30.6	30.5	30.5	30.4	30.4	30.3	30.3	30.3	30.2	30.2
10.80	30.2	30.2	30.2	30.2	30.1	30.1	30.1	30.0	30.0	29.9
11.00	29.9	29.8	29.8	29.7	29.7	29.6	29.5	29.4	29.3	29.3
11.20	29.2	29.1	29.1	29.0	28.9	28.8	28.7	28.6	28.6	28.5
11.40	28.4	28.3	28.2	28.1	28.0	27.9	27.9	27.8	27.7	27.6
11.60	27.5	27.4	27.3	27.2	27.1	27.0	26.9	26.8	26.7	26.6
11.80	26.5	26.3	26.2	26.1	26.0	26.0	25.9	25.8	25.7	25.6
12.00	25.5									

SUBCATCHMENT 9 Basin Q

PEAK= 76.71 CFS @ 8.17 HRS, VOLUME= 13.91 AF

ACRES	CN	
1.62	89	Paved Streets w/ open ditches
9.53	75	1/4 Acre Res - Group B Soil
3.80	61	Grass Fields
4.58	92	School
40.00	88	Industrial
66.90	67	Undeveloped & Wetlands
126.43	75	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 5.50 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	25.0

SUBCATCHMENT 9 RUNOFF PEAK= 76.71 CFS @ 8.17 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	6.56	6.68	6.80	6.92	7.05	7.17	7.31	7.45	7.59	7.74
6.20	7.89	8.05	8.22	8.38	8.55	8.73	8.89	9.07	9.25	9.41
6.40	9.60	9.76	9.93	10.11	10.27	10.43	10.60	10.75	10.91	11.06
6.60	11.19	11.34	11.47	11.58	11.70	11.79	11.88	11.97	12.04	12.12
6.80	12.20	12.26	12.34	12.42	12.50	12.60	12.70	12.80	12.92	13.04
7.00	13.18	13.33	13.47	13.64	13.82	13.99	14.20	14.40	14.60	14.84
7.20	15.06	15.30	15.57	15.83	16.11	16.41	16.69	17.02	17.35	17.67
7.40	18.04	18.40	18.76	19.17	19.56	19.98	20.43	20.86	21.40	22.03
7.60	22.76	23.68	24.77	26.04	27.63	29.50	31.59	33.93	36.43	39.07
7.80	41.80	44.57	47.42	50.23	52.96	55.71	58.31	60.79	63.21	65.34
8.00	67.37	69.31	70.99	72.55	73.91	74.94	75.84	76.40	76.64	76.65
8.20	76.19	75.49	74.62	73.36	72.02	70.58	68.90	67.26	65.56	63.77
8.40	62.09	60.35	58.65	57.09	55.54	54.08	52.71	51.31	50.05	48.85
8.60	47.65	46.61	45.61	44.65	43.87	43.11	42.44	41.90	41.34	40.88
8.80	40.47	40.04	39.70	39.35	38.97	38.67	38.33	37.98	37.68	37.30
9.00	36.95	36.62	36.23	35.89	35.55	35.16	34.84	34.48	34.11	33.79
9.20	33.42	33.06	32.74	32.37	32.04	31.72	31.36	31.06	30.75	30.42
9.40	30.15	29.85	29.55	29.30	29.02	28.76	28.53	28.26	28.05	27.84
9.60	27.61	27.44	27.26	27.08	26.96	26.81	26.69	26.61	26.50	26.42
9.80	26.36	26.26	26.21	26.14	26.06	26.01	25.94	25.86	25.82	25.72
10.00	25.65	25.59	25.49	25.42	25.35	25.25	25.18	25.09	24.98	24.92
10.20	24.81	24.70	24.63	24.50	24.41	24.32	24.20	24.12	24.02	23.91
10.40	23.84	23.74	23.64	23.58	23.48	23.41	23.35	23.25	23.20	23.14
10.60	23.07	23.03	22.99	22.93	22.92	22.89	22.86	22.87	22.84	22.83
10.80	22.84	22.81	22.81	22.80	22.77	22.77	22.74	22.70	22.70	22.65
11.00	22.61	22.58	22.52	22.49	22.45	22.38	22.35	22.29	22.22	22.19
11.20	22.12	22.06	22.02	21.95	21.89	21.85	21.77	21.72	21.66	21.58
11.40	21.54	21.47	21.40	21.36	21.28	21.21	21.16	21.08	21.02	20.96
11.60	20.88	20.82	20.75	20.66	20.61	20.52	20.43	20.37	20.27	20.19
11.80	20.12	20.02	19.96	19.88	19.79	19.74	19.66	19.59	19.55	19.48
12.00	19.42									

SUBCATCHMENT 10 Basin R

PEAK= 36.01 CFS @ 8.11 HRS, VOLUME= 6.30 AF

ACRES	CN		SCS TR-20 METHOD
5.10	89	Paved Streets w/ open ditches	TYPE IA 24-HOUR
17.00	75	1/4 Acre Res - Group B Soil	RAINFALL= 5.50 IN
14.00	69	Park	SPAN= 6-12 HRS, dt=.02 HRS
13.30	66	Undeveloped	
10.00	85	1/8 Acre Res - Group B Soil	
59.40	74		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	20.0

SUBCATCHMENT 10 RUNOFF PEAK= 36.01 CFS @ 8.11 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.88	2.94	3.00	3.06	3.12	3.18	3.25	3.32	3.39	3.46
6.20	3.54	3.62	3.70	3.78	3.87	3.94	4.03	4.11	4.19	4.26
6.40	4.34	4.42	4.49	4.57	4.64	4.71	4.78	4.85	4.91	4.98
6.60	5.04	5.09	5.14	5.17	5.21	5.24	5.27	5.30	5.33	5.35
6.80	5.38	5.42	5.46	5.50	5.55	5.60	5.66	5.72	5.79	5.86
7.00	5.93	6.01	6.10	6.18	6.28	6.38	6.48	6.59	6.70	6.82
7.20	6.94	7.07	7.20	7.35	7.48	7.64	7.79	7.96	8.12	8.29
7.40	8.47	8.66	8.85	9.05	9.26	9.46	9.70	9.95	10.27	10.66
7.60	11.15	11.78	12.55	13.50	14.61	15.86	17.19	18.61	20.05	21.51
7.80	22.95	24.35	25.72	26.98	28.21	29.29	30.35	31.29	32.20	33.00
8.00	33.75	34.43	34.99	35.48	35.78	35.99	35.98	35.83	35.43	34.89
8.20	34.19	33.38	32.52	31.57	30.64	29.66	28.74	27.80	26.93	26.11
8.40	25.34	24.62	23.91	23.26	22.61	22.02	21.43	20.90	20.38	19.92
8.60	19.50	19.11	18.80	18.50	18.29	18.08	17.93	17.78	17.66	17.54
8.80	17.43	17.32	17.20	17.09	16.95	16.83	16.67	16.54	16.39	16.24
9.00	16.09	15.94	15.79	15.63	15.49	15.33	15.19	15.02	14.88	14.72
9.20	14.57	14.42	14.26	14.13	13.97	13.84	13.69	13.57	13.43	13.31
9.40	13.19	13.06	12.96	12.84	12.74	12.63	12.54	12.44	12.36	12.27
9.60	12.20	12.14	12.08	12.04	11.99	11.97	11.93	11.91	11.88	11.87
9.80	11.85	11.82	11.81	11.77	11.76	11.72	11.70	11.66	11.63	11.60
10.00	11.56	11.53	11.49	11.46	11.42	11.39	11.34	11.30	11.25	11.21
10.20	11.16	11.11	11.07	11.01	10.98	10.92	10.89	10.84	10.80	10.76
10.40	10.72	10.69	10.65	10.62	10.58	10.56	10.52	10.50	10.47	10.45
10.60	10.44	10.42	10.42	10.40	10.41	10.40	10.41	10.41	10.42	10.41
10.80	10.41	10.41	10.40	10.40	10.38	10.38	10.35	10.34	10.32	10.30
11.00	10.28	10.26	10.24	10.21	10.19	10.16	10.14	10.11	10.09	10.06
11.20	10.03	10.01	9.98	9.96	9.92	9.90	9.86	9.84	9.81	9.78
11.40	9.75	9.72	9.70	9.66	9.64	9.60	9.58	9.54	9.52	9.48
11.60	9.45	9.42	9.37	9.34	9.30	9.27	9.22	9.19	9.14	9.11
11.80	9.07	9.03	9.01	8.97	8.95	8.91	8.89	8.86	8.85	8.82
12.00	8.80									

SUBCATCHMENT 1 Basin S

PEAK= 123.3 CFS @ 8.06 HRS, VOLUME= 20.63 AF

ACRES	CN		SCS TR-20 METHOD
90.48	85	1/8 Acre Res - Group B Soil	TYPE IA 24-HOUR
14.61	89	Paved Streets w/ open ditches	RAINFALL= 5.50 IN
30.34	65	Forest/Meadow/Wetlands	SPAN= 6-12 HRS, dt=.02 HRS
4.98	92	Commercial	
1.44	85	Gravel Lot	
3.80	88	School/Industrial	
2.16	61	Park	
147.81	81		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	16.1

SUBCATCHMENT 1 RUNOFF PEAK= 123.3 CFS @ 8.06 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	15.5	15.7	15.9	16.1	16.3	16.6	16.8	17.1	17.4	17.7
6.20	18.0	18.3	18.6	18.9	19.2	19.4	19.7	20.0	20.2	20.4
6.40	20.7	20.9	21.1	21.3	21.5	21.7	21.9	22.1	22.3	22.4
6.60	22.5	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.7
6.80	22.7	22.8	23.0	23.1	23.3	23.5	23.7	23.9	24.1	24.4
7.00	24.6	25.0	25.3	25.6	25.9	26.3	26.7	27.1	27.5	27.9
7.20	28.4	28.8	29.3	29.8	30.4	30.9	31.5	32.1	32.7	33.3
7.40	33.9	34.6	35.3	36.0	36.8	37.5	38.4	39.4	40.8	42.7
7.60	45.3	48.8	53.0	58.0	63.3	69.0	74.6	80.2	85.5	90.5
7.80	95.1	99.1	102.9	106.2	109.3	112.0	114.5	116.6	118.5	120.1
8.00	121.4	122.5	123.0	123.3	122.7	121.6	119.6	116.9	113.6	109.8
8.20	106.0	101.9	97.9	94.0	90.4	87.1	83.9	81.1	78.4	75.9
8.40	73.5	71.3	69.2	67.2	65.3	63.5	61.9	60.3	58.9	57.7
8.60	56.7	55.8	55.2	54.7	54.4	54.1	53.8	53.6	53.3	53.1
8.80	52.7	52.3	51.9	51.5	51.0	50.5	50.1	49.6	49.1	48.6
9.00	48.1	47.6	47.1	46.6	46.1	45.6	45.1	44.6	44.1	43.6
9.20	43.1	42.6	42.2	41.7	41.3	40.8	40.4	40.0	39.6	39.2
9.40	38.9	38.5	38.2	37.9	37.6	37.3	37.0	36.7	36.5	36.3
9.60	36.1	36.0	35.9	35.8	35.7	35.7	35.6	35.6	35.5	35.5
9.80	35.4	35.3	35.2	35.1	35.0	34.9	34.8	34.7	34.6	34.4
10.00	34.3	34.2	34.1	33.9	33.8	33.7	33.5	33.4	33.2	33.0
10.20	32.9	32.7	32.6	32.4	32.3	32.1	32.0	31.8	31.7	31.6
10.40	31.5	31.4	31.3	31.2	31.1	31.0	30.9	30.8	30.8	30.7
10.60	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.8	30.7	30.7
10.80	30.7	30.7	30.6	30.6	30.5	30.4	30.4	30.3	30.2	30.1
11.00	30.1	30.0	29.9	29.8	29.7	29.7	29.5	29.5	29.4	29.3
11.20	29.2	29.1	29.0	28.9	28.8	28.7	28.6	28.5	28.5	28.4
11.40	28.3	28.2	28.1	28.0	27.9	27.8	27.7	27.6	27.5	27.4
11.60	27.3	27.2	27.0	26.9	26.8	26.7	26.5	26.4	26.3	26.2
11.80	26.1	26.0	25.9	25.8	25.7	25.7	25.6	25.5	25.5	25.4

SUBCATCHMENT 2 Basin S - Subbasin 1

PEAK= 12.73 CFS @ 7.96 HRS, VOLUME= 2.08 AF

ACRES	CN		SCS TR-20 METHOD
3.09	89	Paved Streets w/ open ditches	TYPE IA 24-HOUR
15.45	72	1/3 Acre Res - Group B Soil	RAINFALL= 5.50 IN
18.54	75		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.1

SUBCATCHMENT 2 RUNOFF PEAK= 12.73 CFS @ 7.96 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.23	1.26	1.28	1.32	1.36	1.39	1.42	1.45	1.48	1.51
6.20	1.53	1.56	1.58	1.60	1.63	1.65	1.67	1.69	1.72	1.74
6.40	1.76	1.78	1.80	1.82	1.84	1.86	1.87	1.87	1.86	1.84
6.60	1.83	1.83	1.83	1.84	1.86	1.87	1.89	1.91	1.94	1.96
6.80	1.99	2.01	2.04	2.07	2.10	2.14	2.17	2.21	2.24	2.28
7.00	2.32	2.37	2.41	2.46	2.50	2.55	2.60	2.66	2.71	2.77
7.20	2.83	2.89	2.95	3.02	3.09	3.16	3.23	3.30	3.38	3.46
7.40	3.54	3.62	3.71	3.80	3.89	3.99	4.21	4.77	5.75	6.87
7.60	7.87	8.64	9.23	9.72	10.13	10.50	10.82	11.12	11.39	11.63
7.80	11.85	12.05	12.22	12.37	12.49	12.59	12.66	12.71	12.73	12.71
8.00	12.67	12.51	12.06	11.27	10.38	9.61	9.04	8.61	8.26	7.97
8.20	7.71	7.49	7.27	7.08	6.89	6.71	6.54	6.38	6.22	6.07
8.40	5.93	5.80	5.67	5.56	5.45	5.34	5.27	5.27	5.35	5.46
8.60	5.54	5.56	5.56	5.53	5.50	5.45	5.40	5.35	5.30	5.24
8.80	5.19	5.13	5.08	5.03	4.97	4.92	4.87	4.82	4.77	4.72
9.00	4.67	4.62	4.57	4.51	4.46	4.41	4.36	4.31	4.27	4.23
9.20	4.19	4.15	4.11	4.08	4.04	4.01	3.98	3.95	3.92	3.89
9.40	3.87	3.84	3.82	3.80	3.78	3.76	3.75	3.75	3.77	3.78
9.60	3.80	3.80	3.80	3.79	3.79	3.78	3.77	3.76	3.74	3.73
9.80	3.72	3.71	3.69	3.68	3.67	3.66	3.64	3.63	3.62	3.60
10.00	3.59	3.58	3.56	3.54	3.51	3.49	3.47	3.46	3.45	3.43
10.20	3.42	3.41	3.40	3.39	3.38	3.37	3.36	3.35	3.34	3.33
10.40	3.33	3.32	3.32	3.31	3.30	3.30	3.30	3.30	3.32	3.34
10.60	3.35	3.36	3.36	3.36	3.35	3.34	3.34	3.33	3.32	3.31
10.80	3.30	3.29	3.28	3.28	3.27	3.26	3.25	3.24	3.23	3.22
11.00	3.21	3.20	3.19	3.18	3.17	3.16	3.16	3.15	3.14	3.13
11.20	3.12	3.11	3.10	3.09	3.08	3.07	3.06	3.05	3.04	3.03
11.40	3.02	3.01	3.00	2.99	2.98	2.97	2.96	2.94	2.92	2.90
11.60	2.88	2.87	2.86	2.85	2.84	2.83	2.82	2.82	2.81	2.80
11.80	2.80	2.79	2.79	2.79	2.78	2.78	2.78	2.77	2.77	2.77
12.00	2.77									

SUBCATCHMENT 3 Basin T

PEAK= 48.01 CFS @ 8.02 HRS, VOLUME= 8.09 AF

ACRES	CN		
8.43	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
50.05	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
47.17	58	Forest	RAINFALL= 5.50 IN
105.65	67		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	9.8

SUBCATCHMENT 3 RUNOFF PEAK= 48.01 CFS @ 8.02 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.31	1.39	1.47	1.55	1.65	1.75	1.85	1.95	2.05	2.15
6.20	2.25	2.35	2.45	2.55	2.65	2.75	2.85	2.95	3.05	3.15
6.40	3.25	3.35	3.45	3.54	3.64	3.73	3.83	3.91	3.99	4.04
6.60	4.08	4.12	4.16	4.20	4.26	4.32	4.39	4.46	4.55	4.63
6.80	4.73	4.82	4.92	5.03	5.14	5.25	5.37	5.50	5.62	5.76
7.00	5.90	6.04	6.19	6.35	6.51	6.68	6.85	7.03	7.22	7.42
7.20	7.62	7.83	8.05	8.27	8.50	8.75	9.00	9.26	9.52	9.80
7.40	10.09	10.38	10.69	11.01	11.33	11.68	12.12	12.83	14.04	15.90
7.60	18.29	20.96	23.68	26.27	28.60	30.68	32.56	34.30	35.91	37.42
7.80	38.82	40.13	41.36	42.49	43.54	44.49	45.35	46.11	46.77	47.32
8.00	47.76	48.01	47.89	47.21	45.86	43.99	41.87	39.74	37.77	36.07
8.20	34.63	33.39	32.28	31.28	30.37	29.52	28.73	27.99	27.28	26.62
8.40	25.98	25.38	24.82	24.28	23.77	23.29	22.87	22.54	22.35	22.33
8.60	22.44	22.60	22.76	22.88	22.92	22.89	22.82	22.71	22.57	22.42
8.80	22.25	22.08	21.89	21.70	21.51	21.32	21.12	20.93	20.74	20.54
9.00	20.35	20.16	19.97	19.77	19.57	19.36	19.16	18.96	18.76	18.58
9.20	18.41	18.24	18.08	17.92	17.77	17.63	17.49	17.36	17.23	17.11
9.40	17.00	16.89	16.78	16.68	16.59	16.50	16.43	16.37	16.34	16.34
9.60	16.37	16.40	16.44	16.46	16.47	16.47	16.45	16.43	16.41	16.37
9.80	16.34	16.30	16.26	16.22	16.18	16.13	16.09	16.04	16.00	15.95
10.00	15.90	15.85	15.80	15.74	15.67	15.60	15.52	15.44	15.37	15.31
10.20	15.25	15.20	15.15	15.10	15.06	15.02	14.98	14.94	14.91	14.87
10.40	14.84	14.81	14.79	14.76	14.74	14.72	14.70	14.69	14.70	14.74
10.60	14.78	14.83	14.88	14.91	14.93	14.93	14.93	14.91	14.90	14.87
10.80	14.85	14.82	14.79	14.76	14.73	14.70	14.66	14.63	14.60	14.56
11.00	14.53	14.49	14.46	14.42	14.38	14.35	14.31	14.27	14.24	14.20
11.20	14.16	14.13	14.09	14.05	14.01	13.97	13.94	13.90	13.86	13.82
11.40	13.78	13.74	13.70	13.66	13.62	13.58	13.54	13.49	13.44	13.37
11.60	13.30	13.23	13.17	13.10	13.05	13.00	12.96	12.92	12.89	12.86
11.80	12.83	12.80	12.78	12.75	12.73	12.72	12.70	12.69	12.68	12.67
12.00	12.67									

SUBCATCHMENT 4 Basin U

PEAK= 16.29 CFS @ 8.08 HRS, VOLUME= 2.92 AF

ACRES	CN		
1.62	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
10.00	68	1 Acre Res - Group B Soil	TYPE IA 24-HOUR
44.61	58	Forest	RAINFALL= 5.50 IN
56.23	61		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.6

SUBCATCHMENT 4 RUNOFF PEAK= 16.29 CFS @ 8.08 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.01	.02	.03
6.60	.05	.07	.09	.11	.14	.17	.20	.23	.27	.30
6.80	.34	.37	.41	.45	.49	.53	.57	.61	.65	.70
7.00	.74	.79	.84	.89	.94	.99	1.05	1.11	1.16	1.22
7.20	1.29	1.35	1.42	1.49	1.57	1.64	1.72	1.80	1.89	1.98
7.40	2.07	2.16	2.26	2.36	2.47	2.58	2.70	2.85	3.05	3.34
7.60	3.73	4.23	4.82	5.48	6.18	6.90	7.62	8.33	9.01	9.67
7.80	10.31	10.92	11.52	12.10	12.66	13.20	13.71	14.19	14.64	15.07
8.00	15.45	15.80	16.07	16.23	16.29	16.18	15.91	15.55	15.09	14.60
8.20	14.10	13.62	13.16	12.75	12.38	12.04	11.72	11.42	11.14	10.87
8.40	10.62	10.37	10.15	9.92	9.71	9.52	9.33	9.16	9.03	8.92
8.60	8.85	8.83	8.82	8.84	8.86	8.88	8.89	8.90	8.88	8.86
8.80	8.83	8.78	8.74	8.69	8.63	8.57	8.52	8.45	8.39	8.33
9.00	8.26	8.20	8.14	8.07	8.00	7.93	7.86	7.79	7.72	7.65
9.20	7.58	7.52	7.45	7.39	7.33	7.27	7.21	7.16	7.11	7.06
9.40	7.01	6.96	6.92	6.88	6.84	6.81	6.77	6.74	6.72	6.70
9.60	6.69	6.69	6.69	6.70	6.71	6.71	6.72	6.72	6.72	6.72
9.80	6.71	6.71	6.69	6.69	6.68	6.66	6.65	6.64	6.62	6.61
10.00	6.60	6.58	6.57	6.55	6.53	6.51	6.49	6.46	6.44	6.41
10.20	6.39	6.37	6.35	6.33	6.31	6.29	6.28	6.26	6.25	6.23
10.40	6.22	6.21	6.20	6.19	6.18	6.17	6.17	6.16	6.16	6.16
10.60	6.16	6.18	6.19	6.20	6.22	6.23	6.24	6.25	6.25	6.25
10.80	6.25	6.25	6.24	6.23	6.23	6.21	6.21	6.20	6.18	6.18
11.00	6.17	6.15	6.14	6.13	6.12	6.11	6.09	6.08	6.07	6.05
11.20	6.04	6.03	6.01	6.00	5.99	5.97	5.96	5.95	5.93	5.92
11.40	5.90	5.89	5.87	5.86	5.84	5.83	5.82	5.80	5.78	5.76
11.60	5.74	5.72	5.70	5.67	5.65	5.63	5.60	5.58	5.57	5.55
11.80	5.53	5.52	5.51	5.50	5.49	5.48	5.47	5.47	5.46	5.45
12.00	5.45									

SUBCATCHMENT 1 Basin A

PEAK= 13.81 CFS @ 8.01 HRS, VOLUME= 2.27 AF

ACRES	CN		
3.07	98	Paved Streets	SCS TR-20 METHOD
14.38	70	0.20+/- Acre Res - Group A Soil	TYPE IA 24-HOUR
17.45	75		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.5

SUBCATCHMENT 1 RUNOFF PEAK= 13.81 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.42	1.44	1.46	1.49	1.52	1.56	1.59	1.63	1.66	1.69
6.20	1.73	1.76	1.78	1.81	1.84	1.87	1.89	1.92	1.94	1.97
6.40	1.99	2.02	2.04	2.06	2.08	2.10	2.12	2.14	2.15	2.16
6.60	2.16	2.15	2.14	2.14	2.14	2.15	2.16	2.17	2.18	2.20
6.80	2.22	2.24	2.27	2.30	2.32	2.35	2.38	2.42	2.45	2.49
7.00	2.53	2.57	2.61	2.66	2.70	2.75	2.80	2.85	2.90	2.96
7.20	3.02	3.08	3.14	3.21	3.27	3.34	3.41	3.48	3.56	3.64
7.40	3.72	3.80	3.89	3.98	4.07	4.16	4.28	4.48	4.81	5.33
7.60	6.02	6.81	7.63	8.42	9.15	9.78	10.33	10.81	11.25	11.64
7.80	11.99	12.31	12.60	12.85	13.07	13.26	13.43	13.57	13.68	13.76
8.00	13.80	13.80	13.72	13.51	13.14	12.62	12.02	11.39	10.80	10.26
8.20	9.79	9.40	9.04	8.73	8.43	8.17	7.92	7.69	7.47	7.27
8.40	7.07	6.89	6.72	6.55	6.40	6.26	6.13	6.02	5.94	5.91
8.60	5.91	5.93	5.95	5.97	5.98	5.97	5.95	5.91	5.87	5.83
8.80	5.78	5.73	5.67	5.62	5.56	5.51	5.45	5.39	5.34	5.28
9.00	5.23	5.17	5.12	5.06	5.00	4.95	4.89	4.83	4.78	4.73
9.20	4.68	4.63	4.58	4.54	4.50	4.45	4.42	4.38	4.34	4.31
9.40	4.27	4.24	4.21	4.18	4.15	4.13	4.11	4.09	4.07	4.07
9.60	4.07	4.07	4.08	4.08	4.08	4.08	4.07	4.06	4.05	4.04
9.80	4.03	4.02	4.01	4.00	3.98	3.97	3.96	3.94	3.93	3.91
10.00	3.90	3.89	3.87	3.85	3.84	3.82	3.80	3.78	3.76	3.74
10.20	3.72	3.71	3.69	3.68	3.66	3.65	3.64	3.63	3.62	3.61
10.40	3.60	3.59	3.58	3.57	3.56	3.55	3.55	3.54	3.54	3.55
10.60	3.55	3.56	3.57	3.58	3.58	3.58	3.58	3.58	3.57	3.57
10.80	3.56	3.55	3.54	3.53	3.52	3.51	3.51	3.50	3.49	3.48
11.00	3.47	3.46	3.45	3.44	3.43	3.42	3.41	3.39	3.39	3.38
11.20	3.36	3.35	3.34	3.33	3.32	3.31	3.30	3.29	3.28	3.27
11.40	3.26	3.25	3.24	3.23	3.22	3.21	3.20	3.18	3.17	3.15
11.60	3.14	3.12	3.10	3.09	3.07	3.06	3.05	3.04	3.03	3.02
11.80	3.01	3.00	3.00	2.99	2.98	2.98	2.97	2.97	2.97	2.96
12.00	2.96									

SUBCATCHMENT 2 Basin B

PEAK= 45.51 CFS @ 8.02 HRS, VOLUME= 7.48 AF

ACRES	CN		
7.30	98	Paved Streets	SCS TR-20 METHOD
35.46	77	1/8 Acre Res - Group A Soil	TYPE IA 24-HOUR
10.79	65	1/5 Acre Res - Group A Soil	RAINFALL= 6.00 IN
53.55	77		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	11.8

SUBCATCHMENT 2 RUNOFF PEAK= 45.51 CFS @ 8.02 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	5.15	5.23	5.31	5.39	5.49	5.59	5.70	5.82	5.93	6.04
6.20	6.15	6.26	6.36	6.45	6.55	6.64	6.73	6.81	6.89	6.98
6.40	7.06	7.13	7.21	7.28	7.35	7.42	7.49	7.55	7.59	7.62
6.60	7.62	7.60	7.59	7.57	7.56	7.56	7.57	7.60	7.64	7.69
6.80	7.75	7.81	7.88	7.96	8.04	8.14	8.23	8.33	8.44	8.56
7.00	8.68	8.81	8.94	9.08	9.23	9.38	9.54	9.70	9.88	10.05
7.20	10.24	10.43	10.63	10.83	11.05	11.27	11.50	11.73	11.97	12.22
7.40	12.49	12.75	13.03	13.31	13.60	13.90	14.24	14.76	15.60	16.92
7.60	18.80	21.09	23.59	26.15	28.60	30.86	32.87	34.62	36.17	37.56
7.80	38.82	39.96	40.98	41.87	42.67	43.38	43.99	44.48	44.89	45.21
8.00	45.42	45.50	45.35	44.91	44.03	42.69	41.00	39.16	37.28	35.47
8.20	33.78	32.31	31.03	29.87	28.81	27.84	26.95	26.11	25.33	24.59
8.40	23.91	23.26	22.64	22.06	21.52	21.01	20.54	20.12	19.79	19.57
8.60	19.46	19.43	19.45	19.48	19.51	19.49	19.44	19.35	19.23	19.09
8.80	18.94	18.78	18.61	18.43	18.25	18.07	17.89	17.70	17.52	17.33
9.00	17.15	16.97	16.79	16.60	16.42	16.24	16.05	15.86	15.68	15.51
9.20	15.33	15.17	15.01	14.87	14.72	14.57	14.44	14.31	14.19	14.06
9.40	13.95	13.84	13.74	13.63	13.54	13.45	13.37	13.29	13.23	13.20
9.60	13.18	13.17	13.17	13.18	13.18	13.18	13.16	13.14	13.12	13.08
9.80	13.05	13.01	12.98	12.94	12.89	12.85	12.81	12.76	12.72	12.67
10.00	12.62	12.58	12.53	12.47	12.42	12.36	12.30	12.23	12.17	12.11
10.20	12.05	11.99	11.94	11.89	11.85	11.80	11.76	11.72	11.68	11.65
10.40	11.61	11.58	11.55	11.52	11.49	11.46	11.44	11.42	11.41	11.41
10.60	11.43	11.45	11.47	11.48	11.50	11.51	11.51	11.50	11.49	11.47
10.80	11.45	11.42	11.40	11.37	11.34	11.31	11.28	11.25	11.22	11.19
11.00	11.16	11.13	11.09	11.06	11.03	10.99	10.96	10.93	10.89	10.86
11.20	10.83	10.79	10.76	10.72	10.69	10.66	10.62	10.59	10.55	10.52
11.40	10.48	10.45	10.42	10.38	10.34	10.31	10.28	10.24	10.19	10.15
11.60	10.10	10.05	9.99	9.94	9.89	9.85	9.81	9.77	9.73	9.70
11.80	9.67	9.64	9.62	9.60	9.58	9.55	9.53	9.52	9.51	9.49
12.00	9.48									

SUBCATCHMENT 3 Basin C

PEAK= 24.62 CFS @ 7.98 HRS, VOLUME= 3.98 AF

ACRES	CN		SCS TR-20 METHOD
1.68	98	Paved Streets	TYPE IA 24-HOUR
13.90	83	1/4 Acre Res & Industrial	RAINFALL= 6.00 IN
1.90	94	Commercial	SPAN= 6-12 HRS, dt=.02 HRS
4.15	90	Town Houses - Group C Soil	
21.63	86		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.7

SUBCATCHMENT 3 RUNOFF PEAK= 24.62 CFS @ 7.98 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.99	4.03	4.07	4.12	4.18	4.24	4.31	4.38	4.45	4.52
6.20	4.58	4.63	4.68	4.73	4.78	4.82	4.86	4.90	4.94	4.98
6.40	5.02	5.05	5.08	5.11	5.14	5.17	5.20	5.22	5.22	5.21
6.60	5.18	5.15	5.12	5.09	5.07	5.06	5.06	5.07	5.08	5.11
6.80	5.13	5.16	5.20	5.24	5.29	5.33	5.39	5.44	5.50	5.56
7.00	5.63	5.70	5.77	5.85	5.93	6.01	6.10	6.19	6.29	6.38
7.20	6.48	6.59	6.70	6.81	6.93	7.05	7.18	7.30	7.44	7.57
7.40	7.71	7.86	8.01	8.16	8.32	8.48	8.69	9.05	9.65	10.59
7.60	11.86	13.33	14.86	16.33	17.66	18.81	19.78	20.61	21.33	21.96
7.80	22.50	22.97	23.37	23.71	24.00	24.23	24.41	24.53	24.60	24.62
8.00	24.59	24.48	24.24	23.78	23.07	22.12	21.03	19.90	18.82	17.83
8.20	16.96	16.22	15.56	14.97	14.43	13.93	13.47	13.05	12.65	12.28
8.40	11.93	11.60	11.29	10.99	10.72	10.46	10.22	10.03	9.88	9.80
8.60	9.77	9.78	9.81	9.83	9.83	9.81	9.76	9.69	9.62	9.53
8.80	9.44	9.35	9.25	9.15	9.05	8.95	8.85	8.75	8.65	8.55
9.00	8.45	8.36	8.26	8.17	8.07	7.97	7.87	7.77	7.68	7.59
9.20	7.50	7.42	7.34	7.26	7.19	7.12	7.05	6.98	6.92	6.86
9.40	6.80	6.75	6.69	6.64	6.59	6.55	6.51	6.47	6.44	6.43
9.60	6.42	6.42	6.43	6.43	6.43	6.42	6.40	6.39	6.37	6.35
9.80	6.33	6.31	6.29	6.26	6.24	6.22	6.19	6.17	6.14	6.12
10.00	6.09	6.07	6.04	6.01	5.98	5.95	5.91	5.88	5.84	5.81
10.20	5.78	5.76	5.73	5.70	5.68	5.66	5.64	5.62	5.60	5.58
10.40	5.56	5.55	5.53	5.51	5.50	5.48	5.47	5.46	5.46	5.46
10.60	5.47	5.48	5.49	5.50	5.50	5.50	5.50	5.49	5.48	5.47
10.80	5.45	5.44	5.43	5.41	5.39	5.38	5.36	5.34	5.33	5.31
11.00	5.29	5.28	5.26	5.24	5.22	5.21	5.19	5.17	5.15	5.14
11.20	5.12	5.10	5.08	5.07	5.05	5.03	5.01	5.00	4.98	4.96
11.40	4.94	4.93	4.91	4.89	4.87	4.85	4.84	4.82	4.79	4.77
11.60	4.74	4.72	4.69	4.66	4.64	4.62	4.60	4.58	4.57	4.55
11.80	4.54	4.52	4.51	4.50	4.49	4.48	4.47	4.46	4.46	4.45
12.00	4.44									

SUBCATCHMENT 4 Basin D

PEAK= 40.17 CFS @ 8.02 HRS, VOLUME= 6.59 AF

ACRES	CN		
7.50	98	Paved Streets	SCS TR-20 METHOD
33.89	77	1/8 Acre Res - Group A Soil	TYPE IA 24-HOUR
41.39	81		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.1

SUBCATCHMENT 4 RUNOFF PEAK= 40.17 CFS @ 8.02 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	5.40	5.46	5.53	5.60	5.68	5.77	5.87	5.97	6.07	6.18
6.20	6.28	6.37	6.47	6.55	6.64	6.72	6.80	6.87	6.95	7.02
6.40	7.09	7.15	7.22	7.28	7.34	7.40	7.45	7.50	7.54	7.56
6.60	7.57	7.56	7.54	7.52	7.50	7.49	7.48	7.49	7.51	7.53
6.80	7.57	7.62	7.67	7.72	7.79	7.86	7.94	8.02	8.11	8.20
7.00	8.31	8.41	8.52	8.64	8.77	8.89	9.02	9.17	9.31	9.46
7.20	9.62	9.79	9.96	10.13	10.32	10.50	10.70	10.91	11.11	11.33
7.40	11.55	11.78	12.01	12.26	12.51	12.76	13.07	13.49	14.13	15.08
7.60	16.41	18.12	20.08	22.18	24.29	26.33	28.23	29.94	31.43	32.77
7.80	33.96	35.01	35.97	36.81	37.54	38.20	38.76	39.21	39.59	39.89
8.00	40.07	40.16	40.11	39.80	39.21	38.32	37.09	35.64	34.13	32.57
8.20	31.06	29.67	28.39	27.25	26.23	25.31	24.43	23.62	22.88	22.16
8.40	21.50	20.89	20.30	19.74	19.23	18.74	18.28	17.87	17.52	17.24
8.60	17.06	16.96	16.90	16.88	16.87	16.84	16.80	16.74	16.64	16.52
8.80	16.40	16.26	16.11	15.97	15.81	15.65	15.49	15.33	15.16	15.00
9.00	14.84	14.68	14.52	14.36	14.20	14.03	13.87	13.71	13.55	13.39
9.20	13.24	13.09	12.95	12.81	12.68	12.55	12.43	12.31	12.19	12.09
9.40	11.98	11.88	11.79	11.69	11.60	11.52	11.44	11.37	11.31	11.26
9.60	11.23	11.21	11.20	11.19	11.18	11.18	11.17	11.15	11.13	11.11
9.80	11.07	11.05	11.01	10.97	10.94	10.91	10.86	10.83	10.79	10.75
10.00	10.70	10.67	10.62	10.58	10.53	10.48	10.42	10.37	10.32	10.26
10.20	10.21	10.16	10.11	10.07	10.03	9.98	9.95	9.91	9.87	9.84
10.40	9.81	9.78	9.75	9.72	9.70	9.67	9.65	9.63	9.61	9.60
10.60	9.61	9.61	9.63	9.64	9.65	9.65	9.66	9.66	9.64	9.64
10.80	9.62	9.60	9.58	9.56	9.53	9.51	9.48	9.45	9.43	9.40
11.00	9.37	9.34	9.32	9.29	9.26	9.23	9.20	9.17	9.15	9.12
11.20	9.08	9.06	9.03	9.00	8.97	8.94	8.91	8.88	8.85	8.82
11.40	8.79	8.76	8.73	8.70	8.67	8.64	8.61	8.58	8.55	8.51
11.60	8.47	8.43	8.38	8.33	8.29	8.25	8.21	8.18	8.15	8.12
11.80	8.09	8.07	8.04	8.02	8.00	7.98	7.96	7.95	7.93	7.92
12.00	7.91									

SUBCATCHMENT 5 Basin E

PEAK= 29.39 CFS @ 8.00 HRS, VOLUME= 4.79 AF

ACRES	CN		
3.36	98	Paved Streets	SCS TR-20 METHOD
28.65	77	1/8 Acre Res - Group A Soil	TYPE IA 24-HOUR
32.01	79		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.4

SUBCATCHMENT 5 RUNOFF PEAK= 29.39 CFS @ 8.00 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.68	3.73	3.79	3.85	3.91	3.99	4.07	4.14	4.22	4.29
6.20	4.36	4.43	4.49	4.55	4.61	4.66	4.71	4.77	4.82	4.87
6.40	4.91	4.96	5.01	5.05	5.09	5.13	5.17	5.20	5.22	5.22
6.60	5.20	5.18	5.15	5.14	5.13	5.13	5.15	5.17	5.20	5.23
6.80	5.27	5.32	5.37	5.42	5.48	5.54	5.61	5.68	5.75	5.83
7.00	5.91	5.99	6.08	6.18	6.28	6.38	6.48	6.59	6.71	6.83
7.20	6.95	7.08	7.21	7.35	7.49	7.64	7.79	7.94	8.11	8.27
7.40	8.44	8.62	8.80	8.99	9.18	9.38	9.64	10.08	10.82	11.97
7.60	13.50	15.25	17.05	18.77	20.32	21.66	22.80	23.80	24.68	25.47
7.80	26.16	26.78	27.33	27.81	28.22	28.57	28.85	29.08	29.24	29.35
8.00	29.39	29.33	29.09	28.58	27.71	26.55	25.23	23.88	22.60	21.45
8.20	20.46	19.61	18.85	18.17	17.56	16.99	16.46	15.96	15.50	15.07
8.40	14.66	14.27	13.91	13.56	13.24	12.93	12.66	12.43	12.27	12.19
8.60	12.19	12.23	12.28	12.32	12.32	12.30	12.24	12.16	12.08	11.97
8.80	11.87	11.75	11.64	11.52	11.40	11.28	11.16	11.04	10.92	10.80
9.00	10.68	10.57	10.45	10.34	10.22	10.09	9.97	9.86	9.74	9.63
9.20	9.53	9.43	9.33	9.24	9.15	9.06	8.98	8.90	8.83	8.75
9.40	8.68	8.61	8.55	8.49	8.43	8.38	8.33	8.29	8.26	8.24
9.60	8.25	8.25	8.26	8.27	8.26	8.26	8.24	8.22	8.20	8.18
9.80	8.16	8.13	8.10	8.08	8.05	8.02	7.99	7.96	7.93	7.90
10.00	7.87	7.84	7.81	7.77	7.74	7.69	7.65	7.61	7.57	7.53
10.20	7.49	7.46	7.43	7.40	7.37	7.34	7.32	7.30	7.27	7.25
10.40	7.23	7.21	7.19	7.17	7.16	7.14	7.13	7.12	7.12	7.12
10.60	7.14	7.15	7.17	7.18	7.19	7.19	7.18	7.17	7.16	7.14
10.80	7.13	7.11	7.09	7.08	7.06	7.04	7.02	7.00	6.98	6.96
11.00	6.93	6.91	6.89	6.87	6.85	6.83	6.81	6.79	6.76	6.74
11.20	6.72	6.70	6.68	6.66	6.63	6.61	6.59	6.57	6.55	6.52
11.40	6.50	6.48	6.46	6.44	6.41	6.39	6.37	6.34	6.32	6.28
11.60	6.25	6.21	6.18	6.15	6.12	6.09	6.07	6.05	6.03	6.01
11.80	5.99	5.97	5.96	5.95	5.93	5.92	5.91	5.90	5.89	5.89
12.00	5.88									

SUBCATCHMENT 6 Basin F

PEAK= 17.57 CFS @ 7.92 HRS, VOLUME= 2.80 AF

ACRES	CN		
3.02	98	Paved Streets	SCS TR-20 METHOD
4.93	80	1/2 Acre Res - Group C Soil	TYPE IA 24-HOUR
5.91	94	Commercial - Group C Soil	RAINFALL= 6.00 IN
13.86	90		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	7.9

SUBCATCHMENT 6 RUNOFF PEAK= 17.57 CFS @ 7.92 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.24	3.27	3.31	3.36	3.41	3.47	3.53	3.58	3.62	3.66
6.20	3.70	3.73	3.76	3.79	3.81	3.84	3.86	3.89	3.91	3.93
6.40	3.95	3.97	3.99	4.01	4.02	4.04	4.05	4.04	4.02	3.98
6.60	3.93	3.89	3.86	3.85	3.84	3.85	3.86	3.87	3.89	3.91
6.80	3.94	3.97	4.00	4.03	4.07	4.11	4.15	4.19	4.24	4.29
7.00	4.34	4.39	4.45	4.51	4.57	4.63	4.70	4.77	4.84	4.92
7.20	4.99	5.07	5.16	5.24	5.33	5.42	5.51	5.61	5.71	5.81
7.40	5.91	6.02	6.13	6.24	6.36	6.48	6.68	7.14	8.04	9.31
7.60	10.71	12.04	13.15	14.01	14.70	15.27	15.73	16.13	16.46	16.74
7.80	16.97	17.17	17.32	17.43	17.51	17.56	17.57	17.55	17.49	17.40
8.00	17.27	17.06	16.65	15.96	15.02	14.01	13.05	12.24	11.59	11.05
8.20	10.59	10.19	9.82	9.50	9.19	8.91	8.64	8.39	8.16	7.93
8.40	7.72	7.52	7.33	7.16	6.99	6.84	6.71	6.62	6.61	6.65
8.60	6.71	6.77	6.79	6.78	6.75	6.70	6.64	6.57	6.50	6.43
8.80	6.36	6.29	6.21	6.14	6.07	6.00	5.92	5.85	5.79	5.72
9.00	5.65	5.58	5.51	5.45	5.38	5.31	5.24	5.17	5.11	5.06
9.20	5.00	4.95	4.90	4.85	4.80	4.75	4.71	4.67	4.63	4.59
9.40	4.55	4.52	4.48	4.45	4.42	4.40	4.37	4.36	4.35	4.36
9.60	4.37	4.38	4.38	4.37	4.36	4.35	4.34	4.32	4.31	4.29
9.80	4.27	4.26	4.24	4.22	4.21	4.19	4.17	4.15	4.13	4.12
10.00	4.10	4.08	4.06	4.04	4.01	3.98	3.96	3.94	3.91	3.89
10.20	3.88	3.86	3.84	3.83	3.81	3.80	3.79	3.77	3.76	3.75
10.40	3.74	3.73	3.72	3.71	3.70	3.69	3.68	3.68	3.69	3.70
10.60	3.71	3.72	3.73	3.73	3.72	3.71	3.71	3.70	3.69	3.68
10.80	3.66	3.65	3.64	3.63	3.62	3.61	3.59	3.58	3.57	3.56
11.00	3.55	3.53	3.52	3.51	3.50	3.48	3.47	3.46	3.45	3.44
11.20	3.42	3.41	3.40	3.39	3.37	3.36	3.35	3.34	3.33	3.31
11.40	3.30	3.29	3.28	3.26	3.25	3.24	3.23	3.21	3.19	3.17
11.60	3.15	3.13	3.11	3.10	3.09	3.07	3.06	3.05	3.04	3.04
11.80	3.03	3.02	3.01	3.01	3.00	3.00	2.99	2.99	2.98	2.98
12.00	2.98									

SUBCATCHMENT 7 Basin G - Subbasin 1

PEAK= 68.12 CFS @ 7.97 HRS, VOLUME= 10.98 AF

ACRES	CN		
8.51	98	Paved Streets	SCS TR-20 METHOD
23.00	85	1/8 Acre Res - Group B Soil	TYPE IA 24-HOUR
2.74	77	Brush/Forest - Group C Soil	RAINFALL= 6.00 IN
21.23	90	1/8 Acre Res - Group C Soil	SPAN= 6-12 HRS, dt=.02 HRS
55.48	89		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.9

SUBCATCHMENT 7 RUNOFF PEAK= 68.12 CFS @ 7.97 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	12.08	12.19	12.32	12.46	12.62	12.80	12.99	13.18	13.38	13.56
6.20	13.72	13.88	14.02	14.15	14.28	14.40	14.51	14.61	14.71	14.81
6.40	14.91	15.00	15.08	15.16	15.23	15.30	15.37	15.41	15.41	15.37
6.60	15.29	15.19	15.08	14.98	14.90	14.86	14.85	14.86	14.89	14.94
6.80	15.00	15.08	15.18	15.28	15.40	15.52	15.66	15.81	15.97	16.14
7.00	16.32	16.50	16.70	16.91	17.13	17.36	17.60	17.84	18.10	18.37
7.20	18.65	18.94	19.24	19.55	19.86	20.20	20.54	20.89	21.25	21.62
7.40	22.01	22.41	22.81	23.23	23.66	24.10	24.68	25.62	27.24	29.76
7.60	33.20	37.23	41.44	45.54	49.28	52.52	55.22	57.52	59.51	61.23
7.80	62.71	63.97	65.04	65.93	66.68	67.26	67.69	67.97	68.10	68.11
8.00	67.98	67.64	66.93	65.68	63.72	61.15	58.18	55.09	52.07	49.29
8.20	46.86	44.75	42.90	41.23	39.71	38.31	37.02	35.83	34.72	33.67
8.40	32.69	31.76	30.89	30.08	29.31	28.59	27.92	27.35	26.92	26.67
8.60	26.58	26.60	26.65	26.69	26.69	26.63	26.49	26.31	26.09	25.86
8.80	25.62	25.36	25.09	24.81	24.53	24.26	23.99	23.71	23.44	23.16
9.00	22.89	22.63	22.36	22.10	21.83	21.55	21.28	21.02	20.77	20.52
9.20	20.27	20.04	19.82	19.62	19.41	19.22	19.02	18.84	18.67	18.50
9.40	18.34	18.19	18.04	17.90	17.77	17.64	17.53	17.42	17.35	17.30
9.60	17.28	17.28	17.28	17.28	17.27	17.25	17.22	17.18	17.13	17.07
9.80	17.01	16.95	16.89	16.83	16.76	16.69	16.63	16.56	16.49	16.42
10.00	16.35	16.28	16.21	16.13	16.05	15.96	15.86	15.77	15.68	15.59
10.20	15.51	15.43	15.36	15.29	15.23	15.17	15.11	15.05	15.00	14.94
10.40	14.90	14.85	14.81	14.76	14.72	14.68	14.65	14.62	14.61	14.61
10.60	14.63	14.65	14.68	14.70	14.71	14.71	14.69	14.67	14.64	14.61
10.80	14.58	14.54	14.49	14.45	14.41	14.37	14.32	14.27	14.23	14.18
11.00	14.14	14.09	14.04	13.99	13.95	13.90	13.85	13.81	13.76	13.71
11.20	13.66	13.61	13.57	13.52	13.47	13.42	13.37	13.33	13.28	13.23
11.40	13.18	13.13	13.09	13.04	12.99	12.94	12.89	12.84	12.78	12.71
11.60	12.64	12.57	12.50	12.43	12.37	12.31	12.25	12.20	12.16	12.12
11.80	12.08	12.05	12.01	11.98	11.95	11.93	11.90	11.88	11.86	11.84
12.00	11.83									

SUBCATCHMENT 8 Basin G - Subbasin 2

PEAK= 14.02 CFS @ 7.94 HRS, VOLUME= 2.25 AF

ACRES	CN		
1.84	98	Paved Streets	SCS TR-20 METHOD
9.03	90	1/8 Acre Res - Group C Soil	TYPE IA 24-HOUR
10.87	91		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	9.7

SUBCATCHMENT 8 RUNOFF PEAK= 14.02 CFS @ 7.94 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.64	2.67	2.69	2.72	2.76	2.80	2.84	2.88	2.92	2.96
6.20	2.99	3.02	3.05	3.07	3.10	3.12	3.14	3.16	3.18	3.20
6.40	3.21	3.23	3.24	3.26	3.27	3.28	3.29	3.30	3.29	3.27
6.60	3.25	3.22	3.19	3.17	3.15	3.15	3.15	3.15	3.16	3.17
6.80	3.19	3.21	3.23	3.25	3.28	3.30	3.33	3.37	3.40	3.44
7.00	3.47	3.51	3.56	3.60	3.65	3.70	3.75	3.80	3.85	3.91
7.20	3.97	4.03	4.09	4.16	4.22	4.29	4.36	4.44	4.51	4.59
7.40	4.67	4.75	4.84	4.93	5.02	5.11	5.23	5.46	5.89	6.58
7.60	7.47	8.43	9.36	10.21	10.92	11.49	11.97	12.37	12.71	13.01
7.80	13.25	13.46	13.63	13.77	13.87	13.95	14.00	14.02	14.01	13.97
8.00	13.91	13.79	13.59	13.24	12.71	12.06	11.36	10.68	10.06	9.53
8.20	9.08	8.69	8.35	8.04	7.75	7.49	7.25	7.03	6.81	6.62
8.40	6.43	6.25	6.09	5.93	5.78	5.65	5.52	5.42	5.36	5.34
8.60	5.35	5.37	5.39	5.40	5.39	5.37	5.33	5.29	5.24	5.19
8.80	5.13	5.08	5.02	4.96	4.91	4.85	4.79	4.74	4.68	4.62
9.00	4.57	4.52	4.46	4.41	4.35	4.30	4.24	4.19	4.14	4.09
9.20	4.04	4.00	3.95	3.91	3.87	3.83	3.80	3.76	3.73	3.69
9.40	3.66	3.63	3.60	3.58	3.55	3.53	3.50	3.49	3.47	3.47
9.60	3.47	3.47	3.48	3.48	3.47	3.47	3.46	3.45	3.44	3.42
9.80	3.41	3.40	3.38	3.37	3.36	3.34	3.33	3.32	3.30	3.29
10.00	3.27	3.26	3.24	3.23	3.21	3.19	3.17	3.15	3.13	3.11
10.20	3.10	3.08	3.07	3.06	3.04	3.03	3.02	3.01	3.00	2.99
10.40	2.98	2.97	2.96	2.95	2.95	2.94	2.93	2.93	2.93	2.93
10.60	2.94	2.94	2.95	2.95	2.95	2.95	2.94	2.94	2.93	2.92
10.80	2.92	2.91	2.90	2.89	2.88	2.87	2.86	2.85	2.84	2.83
11.00	2.82	2.81	2.80	2.79	2.79	2.78	2.77	2.76	2.75	2.74
11.20	2.73	2.72	2.71	2.70	2.69	2.68	2.67	2.66	2.65	2.64
11.40	2.63	2.62	2.61	2.60	2.59	2.58	2.57	2.56	2.55	2.53
11.60	2.52	2.50	2.49	2.47	2.46	2.45	2.44	2.43	2.42	2.42
11.80	2.41	2.40	2.40	2.39	2.38	2.38	2.37	2.37	2.37	2.36
12.00	2.36									

SUBCATCHMENT 9 Basin G - Subbasin 3

PEAK= 23.20 CFS @ 7.92 HRS, VOLUME= 3.72 AF

ACRES	CN		
3.33	98	Paved Streets	SCS TR-20 METHOD
16.47	80	1/5 Acre Res - Group B Soil	TYPE IA 24-HOUR
1.54	90	1/8 Acre Res - Group C Soil	RAINFALL= 6.00 IN
21.34	84		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.6

SUBCATCHMENT 9 RUNOFF PEAK= 23.20 CFS @ 7.92 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00 |	3.60	3.64	3.69	3.77	3.85	3.92	3.99	4.05	4.10	4.15
6.20 |	4.19	4.23	4.27	4.31	4.35	4.39	4.42	4.45	4.49	4.52
6.40 |	4.55	4.58	4.61	4.63	4.66	4.68	4.70	4.69	4.64	4.58
6.60 |	4.53	4.50	4.49	4.49	4.50	4.52	4.55	4.58	4.61	4.65
6.80 |	4.69	4.74	4.78	4.83	4.89	4.94	5.00	5.07	5.13	5.20
7.00 |	5.28	5.35	5.43	5.51	5.60	5.69	5.78	5.87	5.97	6.08
7.20 |	6.18	6.29	6.41	6.52	6.65	6.77	6.90	7.03	7.16	7.31
7.40 |	7.45	7.60	7.75	7.90	8.06	8.24	8.60	9.53	11.21	13.26
7.60 |	15.22	16.81	17.99	18.93	19.68	20.32	20.86	21.32	21.73	22.08
7.80 |	22.37	22.63	22.83	22.99	23.11	23.17	23.20	23.18	23.11	23.00
8.00 |	22.83	22.48	21.73	20.45	18.92	17.49	16.33	15.45	14.74	14.15
8.20 |	13.64	13.19	12.77	12.39	12.03	11.68	11.36	11.05	10.76	10.49
8.40 |	10.23	9.98	9.75	9.53	9.33	9.14	8.99	8.94	9.02	9.16
8.60 |	9.28	9.34	9.33	9.29	9.23	9.15	9.06	8.96	8.87	8.77
8.80 |	8.67	8.57	8.47	8.38	8.28	8.18	8.09	8.00	7.91	7.82
9.00 |	7.73	7.64	7.55	7.45	7.36	7.26	7.18	7.10	7.02	6.94
9.20 |	6.87	6.80	6.74	6.67	6.61	6.55	6.50	6.44	6.39	6.34
9.40 |	6.30	6.25	6.21	6.17	6.13	6.10	6.07	6.06	6.07	6.10
9.60 |	6.12	6.12	6.12	6.11	6.10	6.08	6.06	6.04	6.02	5.99
9.80 |	5.97	5.95	5.92	5.90	5.88	5.85	5.83	5.80	5.78	5.76
10.00 |	5.73	5.71	5.68	5.64	5.60	5.57	5.53	5.51	5.48	5.46
10.20 |	5.43	5.41	5.39	5.37	5.35	5.34	5.32	5.30	5.29	5.27
10.40 |	5.26	5.25	5.23	5.22	5.21	5.20	5.19	5.20	5.22	5.24
10.60 |	5.26	5.27	5.28	5.27	5.26	5.25	5.23	5.22	5.21	5.19
10.80 |	5.18	5.16	5.14	5.13	5.11	5.10	5.08	5.06	5.05	5.03
11.00 |	5.01	5.00	4.98	4.96	4.95	4.93	4.92	4.90	4.88	4.87
11.20 |	4.85	4.83	4.82	4.80	4.78	4.77	4.75	4.73	4.72	4.70
11.40 |	4.68	4.66	4.65	4.63	4.61	4.60	4.58	4.55	4.52	4.49
11.60 |	4.46	4.44	4.42	4.40	4.38	4.37	4.35	4.34	4.33	4.32
11.80 |	4.31	4.30	4.29	4.28	4.28	4.27	4.26	4.26	4.26	4.25
12.00 |	4.25									

SUBCATCHMENT 10 Basin G - Subbasin 4

PEAK= 35.11 CFS @ 7.99 HRS, VOLUME= 5.69 AF

ACRES	CN		
4.35	98	Paved Streets	SCS TR-20 METHOD
13.57	80	1/5 Acre Res - Group B Soil	TYPE IA 24-HOUR
11.85	87	1/5 Acre Res - Group C Soil	RAINFALL= 6.00 IN
1.18	98	Impervious - Alzheimer Care Ctr	SPAN= 6-12 HRS, dt=.02 HRS
30.95	86		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	11.7

SUBCATCHMENT 10 RUNOFF PEAK= 35.11 CFS @ 7.99 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	5.66	5.72	5.78	5.85	5.93	6.01	6.11	6.20	6.30	6.39
6.20	6.48	6.56	6.64	6.71	6.78	6.85	6.91	6.97	7.02	7.08
6.40	7.13	7.18	7.23	7.28	7.32	7.37	7.40	7.43	7.45	7.45
6.60	7.43	7.39	7.35	7.31	7.27	7.25	7.24	7.25	7.27	7.29
6.80	7.32	7.37	7.41	7.46	7.52	7.59	7.66	7.73	7.81	7.90
7.00	7.99	8.08	8.18	8.29	8.40	8.52	8.64	8.76	8.90	9.03
7.20	9.17	9.32	9.47	9.63	9.80	9.96	10.14	10.32	10.50	10.69
7.40	10.89	11.09	11.30	11.52	11.73	11.96	12.25	12.68	13.39	14.49
7.60	16.01	17.86	19.87	21.89	23.83	25.59	27.12	28.42	29.56	30.56
7.80	31.43	32.18	32.83	33.41	33.89	34.28	34.59	34.83	35.00	35.09
8.00	35.10	35.01	34.77	34.27	33.47	32.34	30.98	29.50	27.99	26.56
8.20	25.25	24.09	23.07	22.16	21.34	20.58	19.88	19.23	18.62	18.06
8.40	17.53	17.02	16.55	16.11	15.69	15.30	14.93	14.62	14.37	14.19
8.60	14.10	14.07	14.07	14.09	14.09	14.06	14.01	13.93	13.83	13.72
8.80	13.60	13.47	13.33	13.19	13.05	12.91	12.77	12.63	12.48	12.34
9.00	12.21	12.07	11.93	11.79	11.65	11.51	11.37	11.23	11.10	10.96
9.20	10.83	10.71	10.59	10.48	10.37	10.27	10.17	10.07	9.98	9.89
9.40	9.80	9.72	9.64	9.56	9.49	9.42	9.36	9.31	9.26	9.23
9.60	9.21	9.21	9.20	9.20	9.20	9.19	9.18	9.16	9.13	9.11
9.80	9.08	9.05	9.02	8.99	8.95	8.92	8.88	8.85	8.82	8.78
10.00	8.74	8.71	8.67	8.63	8.59	8.54	8.50	8.45	8.40	8.35
10.20	8.31	8.27	8.23	8.19	8.16	8.13	8.09	8.06	8.03	8.01
10.40	7.98	7.95	7.93	7.91	7.89	7.87	7.84	7.83	7.82	7.82
10.60	7.82	7.84	7.85	7.86	7.87	7.87	7.87	7.86	7.85	7.83
10.80	7.81	7.80	7.78	7.75	7.73	7.71	7.69	7.66	7.64	7.62
11.00	7.59	7.57	7.54	7.52	7.50	7.47	7.44	7.42	7.40	7.37
11.20	7.34	7.32	7.29	7.27	7.24	7.22	7.19	7.17	7.14	7.12
11.40	7.09	7.07	7.04	7.02	6.99	6.97	6.94	6.91	6.88	6.85
11.60	6.81	6.78	6.74	6.70	6.67	6.64	6.60	6.58	6.55	6.53
11.80	6.51	6.49	6.47	6.45	6.44	6.42	6.41	6.40	6.39	6.38
12.00	6.37									

SUBCATCHMENT 1 Basin H

PEAK= 237.1 CFS @ 8.65 HRS, VOLUME= 54.85 AF

ACRES	CN	
215.72	76	Forest - Group C Soil
15.57	65	Forest - Group B Soil
24.60	85	1/8 Acre Res - Group B Soil
5.77	90	1/8 Acre Res - Group C Soil
81.05	80	1/5 Acre Res - Group B Soil
20.52	87	1/5 Acre Res - Group C Soil
21.21	98	Paved Streets
1.33	72	Open Space
385.77	79	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
SHALLOW CONCENTRATED/UPLAND FLOW	1	6.8
Woodland Kv=5 L=450' s=.0488 '/' V=1.1 fps		
SHALLOW CONCENTRATED/UPLAND FLOW	2	13.6
Woodland Kv=5 L=1323' s=.1058 '/' V=1.63 fps		
SHALLOW CONCENTRATED/UPLAND FLOW	3	25.4
Woodland Kv=5 L=1132' s=.0221 '/' V=.74 fps		
CHANNEL FLOW	4	7.8
a=6 sq-ft Pw=6.5' r=.923'		
s=.0224 '/' n=.04 V=5.27 fps	L=2456' Capacity=31.6 cfs	
CHANNEL FLOW	5	2.0
a=7 sq-ft Pw=6.5' r=1.077'		
s=.122 '/' n=.04 V=13.63 fps	L=1641' Capacity=95.4 cfs	
CHANNEL FLOW	6	6.3
a=10 sq-ft Pw=8.5' r=1.176'		
s=.0068 '/' n=.07 V=1.95 fps	L=735' Capacity=19.5 cfs	
	Total Length= 7737 ft Total Tc=	61.9

SUBCATCHMENT 1 RUNOFF PEAK= 237.1 CFS @ 8.65 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	27.6	28.0	28.4	28.8	29.2	29.6	30.0	30.4	30.8	31.2
6.20	31.6	32.1	32.5	32.9	33.3	33.8	34.2	34.7	35.2	35.6
6.40	36.1	36.6	37.1	37.5	38.1	38.6	39.1	39.6	40.2	40.7
6.60	41.2	41.8	42.4	42.9	43.5	44.0	44.6	45.1	45.7	46.3
6.80	46.8	47.3	47.9	48.4	48.9	49.5	50.0	50.5	51.0	51.5
7.00	51.9	52.4	52.9	53.4	53.9	54.4	54.8	55.2	55.7	56.2
7.20	56.7	57.2	57.7	58.2	58.6	59.2	59.7	60.3	60.9	61.4
7.40	62.0	62.6	63.3	64.0	64.7	65.4	66.1	66.8	67.6	68.6
7.60	69.6	70.6	71.7	72.9	74.0	75.4	77.0	78.6	80.3	82.3
7.80	84.4	86.5	88.9	91.7	94.5	97.4	100.8	104.3	107.8	111.7
8.00	116.0	120.3	124.7	129.6	134.5	139.5	144.7	150.0	155.2	160.5
8.20	165.9	171.2	176.5	181.7	186.8	192.0	196.8	201.3	205.7	210.0
8.40	213.9	217.6	221.3	224.4	226.8	229.1	231.4	233.0	234.6	236.2
8.60	236.8	237.0	237.1	237.1	236.7	236.2	235.7	234.4	232.9	231.3
8.80	229.6	227.8	225.9	224.1	221.8	219.4	217.0	214.6	212.2	209.9
9.00	207.5	205.0	202.4	199.9	197.5	195.2	192.9	190.6	188.3	186.1
9.20	183.8	181.8	179.8	177.8	175.8	173.8	171.8	169.8	168.0	166.3
9.40	164.6	162.8	161.0	159.3	157.5	155.9	154.3	152.8	151.2	149.6
9.60	147.9	146.3	144.9	143.5	142.1	140.6	139.2	137.7	136.2	135.0
9.80	133.7	132.5	131.2	129.9	128.6	127.4	126.3	125.3	124.2	123.1
10.00	122.0	121.0	120.0	119.1	118.3	117.4	116.5	115.6	114.8	114.0
10.20	113.3	112.6	111.9	111.1	110.4	109.6	109.0	108.4	107.9	107.3
10.40	106.6	106.0	105.3	104.8	104.3	103.8	103.3	102.7	102.1	101.6
10.60	101.1	100.7	100.2	99.7	99.2	98.7	98.2	97.8	97.4	97.0
10.80	96.6	96.1	95.7	95.3	94.9	94.6	94.3	93.9	93.5	93.1
11.00	92.8	92.5	92.2	92.0	91.7	91.3	91.0	90.7	90.5	90.3
11.20	90.0	89.8	89.5	89.2	88.9	88.8	88.6	88.4	88.1	87.8
11.40	87.6	87.3	87.2	87.0	86.8	86.5	86.3	86.0	85.8	85.6
11.60	85.4	85.2	84.9	84.7	84.4	84.2	84.0	83.8	83.5	83.3
11.80	83.0	82.7	82.5	82.3	82.0	81.8	81.5	81.2	80.9	80.7
12.00	80.5									

SUBCATCHMENT 2 Basin I

PEAK= 118.4 CFS @ 7.92 HRS, VOLUME= 19.02 AF

ACRES	CN		
16.42	76	Forest - Group C Soil	SCS TR-20 METHOD
95.71	84	SWOCC (~40% Imp.) - Group C Soil	TYPE IA 24-HOUR
112.13	83		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.1

SUBCATCHMENT 2 RUNOFF PEAK= 118.4 CFS @ 7.92 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	17.8	18.0	18.3	18.7	19.1	19.5	19.8	20.1	20.4	20.6
6.20	20.8	21.0	21.3	21.4	21.6	21.8	22.0	22.2	22.4	22.5
6.40	22.7	22.8	23.0	23.1	23.2	23.4	23.4	23.3	23.1	22.8
6.60	22.5	22.4	22.4	22.4	22.5	22.6	22.8	22.9	23.1	23.3
6.80	23.5	23.8	24.0	24.3	24.6	24.9	25.2	25.5	25.9	26.2
7.00	26.6	27.0	27.4	27.8	28.3	28.7	29.2	29.7	30.2	30.7
7.20	31.3	31.9	32.4	33.1	33.7	34.3	35.0	35.7	36.4	37.1
7.40	37.8	38.6	39.4	40.2	41.0	41.9	44.0	49.7	59.6	70.8
7.60	80.6	88.1	93.5	97.9	101.5	104.5	107.1	109.3	111.3	113.0
7.80	114.5	115.7	116.7	117.4	118.0	118.3	118.4	118.2	117.9	117.2
8.00	116.4	114.4	109.8	102.3	94.0	86.7	81.3	77.2	73.9	71.2
8.20	68.7	66.6	64.5	62.7	60.9	59.2	57.6	56.1	54.6	53.3
8.40	51.9	50.7	49.5	48.5	47.4	46.5	45.8	45.7	46.4	47.3
8.60	47.9	48.1	48.0	47.7	47.3	46.9	46.4	45.9	45.4	44.9
8.80	44.4	43.9	43.4	42.9	42.4	41.9	41.4	41.0	40.5	40.0
9.00	39.6	39.1	38.7	38.2	37.7	37.2	36.8	36.4	36.0	35.6
9.20	35.2	34.9	34.6	34.2	33.9	33.6	33.4	33.1	32.8	32.6
9.40	32.3	32.1	31.9	31.7	31.5	31.3	31.2	31.2	31.3	31.5
9.60	31.6	31.6	31.6	31.5	31.4	31.3	31.2	31.1	31.0	30.9
9.80	30.7	30.6	30.5	30.4	30.3	30.1	30.0	29.9	29.8	29.7
10.00	29.5	29.4	29.2	29.0	28.8	28.7	28.5	28.4	28.2	28.1
10.20	28.0	27.9	27.8	27.7	27.6	27.5	27.4	27.3	27.3	27.2
10.40	27.1	27.1	27.0	26.9	26.9	26.8	26.8	26.9	27.0	27.1
10.60	27.2	27.3	27.3	27.2	27.2	27.1	27.0	27.0	26.9	26.8
10.80	26.7	26.6	26.5	26.5	26.4	26.3	26.2	26.1	26.0	26.0
11.00	25.9	25.8	25.7	25.6	25.5	25.5	25.4	25.3	25.2	25.1
11.20	25.0	24.9	24.9	24.8	24.7	24.6	24.5	24.4	24.4	24.3
11.40	24.2	24.1	24.0	23.9	23.8	23.7	23.6	23.5	23.3	23.2
11.60	23.0	22.9	22.8	22.7	22.6	22.6	22.5	22.4	22.4	22.3
11.80	22.3	22.2	22.2	22.1	22.1	22.1	22.1	22.0	22.0	22.0
12.00	22.0									

SUBCATCHMENT 3 Basin J - Overall

PEAK= 106.4 CFS @ 7.96 HRS, VOLUME= 17.11 AF

ACRES	CN		
6.60	98	Paved Streets	SCS TR-20 METHOD
.44	77	Brush - Group C Soil	TYPE IA 24-HOUR
52.26	94	Commercial - Group C Soil	RAINFALL= 6.00 IN
7.54	85	1/8 Acre Res - Group B Soil	SPAN= 6-12 HRS, dt=.02 HRS
12.87	90	1/8 Acre Res - Group C Soil	
79.71	93		

Method	Comment	Tc (min)
DIRECT ENTRY	Overland Flow	6.9
CIRCULAR CHANNEL	10" Pipe	2.8
10" Diameter a=.55 sq-ft Pw=2.6' r=.208'		
s=.028 '/' n=.013 V=6.72 fps L=1141' Capacity=3.7 cfs		
CIRCULAR CHANNEL	15" Pipe	.2
15" Diameter a=1.23 sq-ft Pw=3.9' r=.313'		
s=.029 '/' n=.013 V=8.96 fps L=105' Capacity=11 cfs		
CIRCULAR CHANNEL	24" Pipe	.4
24" Diameter a=3.14 sq-ft Pw=6.3' r=.5'		
s=.029 '/' n=.013 V=12.26 fps L=271' Capacity=38.5 cfs		
CIRCULAR CHANNEL	36" Pipe	.6
36" Diameter a=7.07 sq-ft Pw=9.4' r=.75'		
s=.007 '/' n=.013 V=7.89 fps L=297' Capacity=55.8 cfs		
CIRCULAR CHANNEL	48" Pipe	.2
48" Diameter a=12.57 sq-ft Pw=12.6' r=1'		
s=.005 '/' n=.011 V=9.55 fps L=90' Capacity=120 cfs		
	Total Length= 1904 ft Total Tc=	11.1

SUBCATCHMENT 3 RUNOFF PEAK= 106.4 CFS @ 7.96 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	21.1	21.3	21.4	21.6	21.9	22.2	22.5	22.8	23.1	23.4
6.20	23.6	23.9	24.1	24.3	24.5	24.6	24.8	25.0	25.1	25.2
6.40	25.4	25.5	25.6	25.7	25.8	25.9	26.0	26.0	26.0	25.9
6.60	25.8	25.6	25.4	25.2	25.0	24.9	24.9	24.9	24.9	24.9
6.80	25.0	25.1	25.3	25.4	25.6	25.8	26.0	26.2	26.4	26.7
7.00	26.9	27.2	27.5	27.8	28.2	28.5	28.9	29.3	29.7	30.1
7.20	30.5	30.9	31.4	31.9	32.4	32.9	33.4	33.9	34.5	35.1
7.40	35.7	36.3	36.9	37.5	38.2	38.8	39.6	41.0	43.4	47.3
7.60	52.6	58.9	65.6	72.0	77.9	83.1	87.3	90.9	93.9	96.6
7.80	98.8	100.7	102.3	103.5	104.6	105.4	105.9	106.3	106.4	106.2
8.00	105.9	105.3	104.1	102.2	99.1	95.2	90.6	85.8	81.1	76.8
8.20	72.9	69.5	66.6	63.9	61.5	59.3	57.3	55.4	53.6	51.9
8.40	50.4	48.9	47.6	46.3	45.1	43.9	42.9	42.0	41.3	40.9
8.60	40.7	40.6	40.7	40.7	40.7	40.6	40.4	40.1	39.8	39.4
8.80	39.0	38.6	38.2	37.8	37.4	36.9	36.5	36.1	35.7	35.2
9.00	34.8	34.4	34.0	33.6	33.2	32.7	32.3	31.9	31.5	31.1
9.20	30.8	30.4	30.1	29.7	29.4	29.1	28.8	28.5	28.3	28.0
9.40	27.8	27.5	27.3	27.1	26.9	26.7	26.5	26.3	26.2	26.1
9.60	26.1	26.1	26.1	26.1	26.1	26.0	26.0	25.9	25.8	25.7
9.80	25.7	25.6	25.5	25.4	25.3	25.2	25.1	24.9	24.8	24.7
10.00	24.6	24.5	24.4	24.3	24.2	24.0	23.9	23.7	23.6	23.5
10.20	23.3	23.2	23.1	23.0	22.9	22.8	22.7	22.6	22.5	22.5
10.40	22.4	22.3	22.2	22.2	22.1	22.0	22.0	21.9	21.9	21.9
10.60	21.9	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.9
10.80	21.8	21.8	21.7	21.7	21.6	21.5	21.5	21.4	21.3	21.2
11.00	21.2	21.1	21.0	21.0	20.9	20.8	20.7	20.7	20.6	20.5
11.20	20.4	20.4	20.3	20.2	20.1	20.1	20.0	19.9	19.8	19.8
11.40	19.7	19.6	19.6	19.5	19.4	19.3	19.3	19.2	19.1	19.0
11.60	18.9	18.8	18.7	18.6	18.5	18.4	18.3	18.2	18.2	18.1
11.80	18.0	18.0	17.9	17.9	17.8	17.8	17.8	17.7	17.7	17.7
12.00	17.6									

SUBCATCHMENT 4 Basin J - Subbasin 1

PEAK= 31.48 CFS @ 7.94 HRS, VOLUME= 5.04 AF

ACRES	CN		
.91	98	Paved Streets	
1.40	76	Forestland - Group C Soil	
14.57	94	Commercial	
7.06	90	1/8 Acre Res - Group C Soil	
23.94	92		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	9.9

SUBCATCHMENT 4 RUNOFF PEAK= 31.48 CFS @ 7.94 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	6.09	6.15	6.20	6.27	6.35	6.44	6.54	6.63	6.72	6.80
6.20	6.87	6.94	7.00	7.06	7.11	7.16	7.20	7.25	7.29	7.33
6.40	7.37	7.40	7.43	7.46	7.49	7.52	7.54	7.55	7.54	7.50
6.60	7.44	7.37	7.30	7.25	7.22	7.20	7.20	7.21	7.22	7.25
6.80	7.28	7.32	7.36	7.41	7.47	7.53	7.59	7.66	7.74	7.82
7.00	7.90	7.99	8.09	8.19	8.29	8.40	8.51	8.62	8.75	8.87
7.20	9.00	9.14	9.28	9.42	9.57	9.73	9.89	10.05	10.22	10.39
7.40	10.57	10.76	10.94	11.14	11.34	11.54	11.81	12.32	13.24	14.72
7.60	16.66	18.78	20.87	22.78	24.41	25.72	26.82	27.74	28.53	29.19
7.80	29.76	30.23	30.61	30.93	31.17	31.34	31.44	31.48	31.46	31.38
8.00	31.23	30.97	30.51	29.75	28.63	27.21	25.68	24.16	22.77	21.55
8.20	20.52	19.63	18.83	18.12	17.47	16.88	16.33	15.81	15.33	14.88
8.40	14.45	14.05	13.67	13.32	12.99	12.67	12.39	12.16	12.01	11.95
8.60	11.96	12.00	12.04	12.06	12.04	11.99	11.92	11.82	11.72	11.60
8.80	11.48	11.36	11.23	11.10	10.97	10.84	10.72	10.59	10.46	10.34
9.00	10.22	10.10	9.98	9.85	9.73	9.60	9.48	9.36	9.25	9.14
9.20	9.03	8.93	8.83	8.74	8.65	8.56	8.48	8.40	8.32	8.25
9.40	8.18	8.11	8.05	7.98	7.93	7.87	7.82	7.78	7.75	7.74
9.60	7.74	7.74	7.74	7.74	7.74	7.72	7.70	7.68	7.66	7.63
9.80	7.60	7.57	7.54	7.51	7.48	7.45	7.42	7.39	7.36	7.32
10.00	7.29	7.26	7.23	7.19	7.15	7.11	7.06	7.02	6.98	6.94
10.20	6.90	6.87	6.84	6.81	6.78	6.75	6.73	6.70	6.68	6.66
10.40	6.63	6.61	6.59	6.57	6.56	6.54	6.52	6.51	6.51	6.52
10.60	6.53	6.54	6.56	6.56	6.56	6.56	6.55	6.54	6.52	6.51
10.80	6.49	6.47	6.45	6.43	6.41	6.39	6.37	6.35	6.33	6.30
11.00	6.28	6.26	6.24	6.22	6.20	6.17	6.15	6.13	6.11	6.09
11.20	6.07	6.04	6.02	6.00	5.98	5.96	5.94	5.91	5.89	5.87
11.40	5.85	5.83	5.81	5.78	5.76	5.74	5.72	5.69	5.66	5.63
11.60	5.60	5.57	5.53	5.50	5.48	5.45	5.43	5.41	5.39	5.37
11.80	5.35	5.34	5.33	5.31	5.30	5.29	5.28	5.27	5.26	5.25
12.00	5.25									

SUBCATCHMENT 5 Basin K - Subbasin 1

PEAK= 72.80 CFS @ 8.01 HRS, VOLUME= 11.85 AF

ACRES	CN		
8.03	98	Paved Streets	
11.82	92	Commercial	
27.16	90	1/8 Acre Res - Group C Soil	
5.29	66	Forest/Brush - Group B Soil	
7.60	85	1/8 Acre Res - Group B Soil	
59.90	89		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.4

SUBCATCHMENT 5 RUNOFF PEAK= 72.80 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	12.84	12.96	13.07	13.20	13.36	13.51	13.69	13.88	14.07	14.27
6.20	14.46	14.64	14.81	14.97	15.12	15.26	15.40	15.52	15.64	15.76
6.40	15.87	15.97	16.08	16.17	16.26	16.35	16.43	16.49	16.54	16.55
6.60	16.52	16.48	16.40	16.31	16.24	16.17	16.11	16.09	16.09	16.10
6.80	16.15	16.20	16.27	16.36	16.46	16.56	16.69	16.83	16.97	17.13
7.00	17.31	17.48	17.68	17.89	18.09	18.32	18.56	18.80	19.06	19.33
7.20	19.60	19.90	20.21	20.51	20.84	21.18	21.52	21.88	22.25	22.63
7.40	23.02	23.43	23.84	24.26	24.71	25.16	25.68	26.41	27.51	29.17
7.60	31.56	34.66	38.26	42.12	46.01	49.74	53.25	56.38	59.06	61.44
7.80	63.48	65.27	66.88	68.24	69.39	70.41	71.21	71.83	72.34	72.66
8.00	72.79	72.78	72.47	71.75	70.62	68.91	66.65	64.09	61.30	58.45
8.20	55.71	53.12	50.71	48.58	46.67	44.89	43.28	41.79	40.36	39.06
8.40	37.84	36.67	35.60	34.59	33.62	32.72	31.90	31.13	30.49	29.97
8.60	29.58	29.33	29.19	29.08	29.01	28.95	28.84	28.70	28.54	28.32
8.80	28.09	27.85	27.57	27.29	27.02	26.73	26.43	26.15	25.85	25.55
9.00	25.28	24.98	24.69	24.41	24.12	23.82	23.55	23.25	22.96	22.70
9.20	22.42	22.15	21.91	21.66	21.42	21.20	20.98	20.76	20.56	20.37
9.40	20.17	20.00	19.83	19.65	19.50	19.35	19.20	19.08	18.97	18.87
9.60	18.80	18.76	18.73	18.71	18.70	18.67	18.65	18.62	18.57	18.53
9.80	18.48	18.41	18.35	18.29	18.22	18.15	18.09	18.01	17.94	17.87
10.00	17.79	17.72	17.65	17.56	17.48	17.40	17.30	17.20	17.11	17.01
10.20	16.92	16.84	16.75	16.66	16.60	16.52	16.45	16.39	16.32	16.25
10.40	16.20	16.14	16.09	16.04	15.99	15.94	15.90	15.86	15.83	15.82
10.60	15.81	15.81	15.83	15.85	15.85	15.87	15.87	15.85	15.84	15.82
10.80	15.78	15.76	15.72	15.67	15.64	15.59	15.54	15.50	15.45	15.40
11.00	15.35	15.31	15.25	15.21	15.16	15.10	15.05	15.01	14.95	14.90
11.20	14.85	14.79	14.74	14.70	14.64	14.59	14.54	14.49	14.43	14.39
11.40	14.33	14.28	14.23	14.17	14.12	14.08	14.02	13.96	13.91	13.84
11.60	13.77	13.71	13.63	13.56	13.49	13.42	13.35	13.30	13.24	13.18
11.80	13.14	13.10	13.05	13.02	12.98	12.94	12.92	12.89	12.86	12.84
12.00	12.81									

SUBCATCHMENT 6 Basin K - Subbasin 2

PEAK= 88.11 CFS @ 8.01 HRS, VOLUME= 14.36 AF

ACRES	CN		
10.82	98	Paved Streets	SCS TR-20 METHOD
13.91	91	Commercial/Industrial	TYPE IA 24-HOUR
4.22	81	1/3 Acre Res - Group C Soil	RAINFALL= 6.00 IN
2.75	77	Forest/Brush - Group C Soil	SPAN= 6-12 HRS, dt=.02 HRS
34.17	85	1/8 Acre Res - Group B Soil	
12.27	74	Cemetery - Group C Soil	
78.14	86		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.1

SUBCATCHMENT 6 RUNOFF PEAK= 88.11 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	14.16	14.29	14.44	14.60	14.78	14.98	15.20	15.43	15.66	15.89
6.20	16.12	16.33	16.54	16.74	16.91	17.09	17.26	17.41	17.56	17.71
6.40	17.85	17.98	18.12	18.24	18.35	18.47	18.57	18.65	18.72	18.75
6.60	18.73	18.68	18.61	18.52	18.44	18.38	18.34	18.32	18.35	18.38
6.80	18.44	18.53	18.63	18.74	18.88	19.02	19.18	19.35	19.55	19.74
7.00	19.95	20.19	20.42	20.67	20.95	21.22	21.50	21.82	22.13	22.46
7.20	22.81	23.17	23.53	23.92	24.32	24.72	25.15	25.60	26.04	26.51
7.40	27.00	27.49	27.99	28.53	29.07	29.62	30.30	31.22	32.63	34.75
7.60	37.76	41.58	45.99	50.69	55.38	59.89	64.08	67.80	71.02	73.87
7.80	76.35	78.53	80.50	82.19	83.62	84.88	85.93	86.73	87.38	87.84
8.00	88.06	88.08	87.78	86.95	85.51	83.42	80.61	77.36	73.97	70.50
8.20	67.15	64.04	61.22	58.69	56.43	54.37	52.43	50.64	49.00	47.43
8.40	45.97	44.62	43.33	42.11	40.99	39.91	38.90	38.01	37.25	36.62
8.60	36.21	35.98	35.83	35.76	35.72	35.64	35.54	35.39	35.17	34.90
8.80	34.63	34.32	33.98	33.66	33.32	32.95	32.61	32.26	31.89	31.54
9.00	31.20	30.83	30.48	30.15	29.79	29.43	29.09	28.74	28.38	28.05
9.20	27.73	27.39	27.09	26.80	26.50	26.23	25.98	25.71	25.46	25.24
9.40	25.00	24.78	24.58	24.38	24.18	24.01	23.84	23.67	23.55	23.45
9.60	23.36	23.32	23.30	23.27	23.25	23.24	23.21	23.16	23.12	23.06
9.80	22.98	22.92	22.85	22.76	22.69	22.61	22.52	22.43	22.35	22.26
10.00	22.17	22.09	21.99	21.89	21.79	21.68	21.56	21.45	21.33	21.21
10.20	21.10	21.00	20.88	20.79	20.71	20.61	20.53	20.45	20.37	20.29
10.40	20.23	20.16	20.09	20.04	19.98	19.92	19.87	19.83	19.79	19.77
10.60	19.78	19.78	19.81	19.84	19.85	19.86	19.87	19.85	19.82	19.80
10.80	19.76	19.72	19.68	19.63	19.57	19.52	19.47	19.40	19.35	19.30
11.00	19.23	19.17	19.11	19.05	18.98	18.93	18.86	18.79	18.74	18.68
11.20	18.61	18.55	18.49	18.42	18.36	18.30	18.23	18.16	18.11	18.04
11.40	17.97	17.91	17.85	17.78	17.72	17.66	17.59	17.52	17.46	17.37
11.60	17.29	17.20	17.11	17.01	16.93	16.84	16.76	16.69	16.62	16.55
11.80	16.50	16.45	16.39	16.35	16.31	16.26	16.23	16.20	16.16	16.13
12.00	16.11									

SUBCATCHMENT 7 Basin K - Subbasin 3

PEAK= 23.48 CFS @ 7.97 HRS, VOLUME= 3.79 AF

ACRES	CN		
2.29	98	Paved Streets	
7.53	94	Commercial	
5.92	81	1/3 Acre Res - Group C Soil	
4.87	76	Forest/Brush - Group C Soil	
20.61	86		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	10.5

SUBCATCHMENT 7 RUNOFF PEAK= 23.48 CFS @ 7.97 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.80	3.84	3.89	3.93	3.99	4.05	4.12	4.19	4.25	4.31
6.20	4.37	4.42	4.47	4.52	4.56	4.60	4.64	4.68	4.72	4.75
6.40	4.78	4.82	4.85	4.88	4.91	4.93	4.96	4.97	4.98	4.97
6.60	4.94	4.91	4.87	4.84	4.83	4.82	4.82	4.83	4.84	4.87
6.80	4.89	4.92	4.96	5.00	5.04	5.09	5.14	5.19	5.25	5.31
7.00	5.37	5.44	5.51	5.58	5.66	5.74	5.82	5.91	6.00	6.10
7.20	6.19	6.29	6.40	6.51	6.62	6.74	6.85	6.98	7.10	7.24
7.40	7.37	7.51	7.65	7.80	7.95	8.10	8.31	8.66	9.26	10.19
7.60	11.45	12.88	14.35	15.76	17.02	18.10	19.00	19.77	20.44	21.03
7.80	21.54	21.97	22.35	22.66	22.92	23.13	23.29	23.41	23.47	23.48
8.00	23.44	23.33	23.08	22.64	21.93	20.98	19.91	18.81	17.77	16.83
8.20	16.02	15.33	14.72	14.16	13.65	13.19	12.76	12.36	11.99	11.64
8.40	11.31	11.00	10.70	10.42	10.17	9.92	9.70	9.52	9.38	9.31
8.60	9.30	9.32	9.35	9.37	9.37	9.34	9.29	9.23	9.15	9.07
8.80	8.99	8.90	8.80	8.71	8.61	8.51	8.42	8.32	8.23	8.13
9.00	8.04	7.95	7.86	7.77	7.67	7.58	7.48	7.39	7.30	7.22
9.20	7.13	7.06	6.98	6.91	6.84	6.77	6.71	6.64	6.58	6.53
9.40	6.47	6.42	6.37	6.32	6.27	6.23	6.19	6.16	6.13	6.12
9.60	6.12	6.12	6.12	6.13	6.12	6.11	6.10	6.09	6.07	6.05
9.80	6.03	6.01	5.99	5.97	5.94	5.92	5.90	5.87	5.85	5.83
10.00	5.80	5.78	5.75	5.72	5.69	5.66	5.63	5.59	5.56	5.53
10.20	5.51	5.48	5.46	5.43	5.41	5.39	5.37	5.35	5.33	5.31
10.40	5.30	5.28	5.27	5.25	5.24	5.22	5.21	5.20	5.20	5.20
10.60	5.21	5.22	5.23	5.24	5.24	5.24	5.24	5.23	5.22	5.21
10.80	5.20	5.18	5.17	5.15	5.14	5.12	5.11	5.09	5.07	5.06
11.00	5.04	5.02	5.01	4.99	4.98	4.96	4.94	4.93	4.91	4.89
11.20	4.88	4.86	4.84	4.82	4.81	4.79	4.78	4.76	4.74	4.72
11.40	4.71	4.69	4.67	4.66	4.64	4.62	4.60	4.59	4.56	4.54
11.60	4.52	4.49	4.46	4.44	4.42	4.40	4.38	4.36	4.35	4.33
11.80	4.32	4.31	4.30	4.29	4.28	4.27	4.26	4.25	4.24	4.24
12.00	4.23									

SUBCATCHMENT 8 Basin L - Overall

PEAK= 238.4 CFS @ 8.29 HRS, VOLUME= 46.68 AF

ACRES	CN		SCS TR-20 METHOD
34.54	98	Paved Streets	TYPE IA 24-HOUR
52.43	85	1/8 Acre Res - Group B Soil	RAINFALL= 6.00 IN
43.71	75	1/4 Acre Res - Group B Soil	SPAN= 6-12 HRS, dt=.02 HRS
5.21	65	2 Acre Res - Group B Soil	
18.29	88	Industrial	
35.99	92	Commercial	
22.59	65	Forest / Open Space	
50.86	90	1/8 Acre Res - Group C Soil	
263.62	85		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	37.5

SUBCATCHMENT 8 RUNOFF PEAK= 238.4 CFS @ 8.29 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	38.4	38.7	39.1	39.4	39.7	40.1	40.4	40.8	41.1	41.6
6.20	42.0	42.4	42.8	43.3	43.8	44.2	44.7	45.2	45.7	46.2
6.40	46.7	47.3	47.9	48.4	48.9	49.4	50.0	50.6	51.0	51.6
6.60	52.1	52.6	53.0	53.5	54.0	54.4	54.7	55.1	55.5	55.8
6.80	56.1	56.3	56.6	56.8	57.0	57.2	57.4	57.7	57.9	58.1
7.00	58.3	58.6	58.8	59.0	59.3	59.7	60.0	60.4	60.7	61.2
7.20	61.7	62.1	62.6	63.2	63.9	64.5	65.1	65.8	66.6	67.4
7.40	68.1	69.0	70.0	70.9	71.8	72.8	73.9	75.0	76.1	77.4
7.60	78.9	80.6	82.4	84.5	87.0	89.7	92.8	96.1	100.3	104.7
7.80	109.7	115.0	120.9	127.0	133.5	140.1	147.0	154.0	161.1	168.1
8.00	175.1	182.2	189.0	195.5	201.8	207.9	213.7	218.6	223.3	227.4
8.20	231.1	233.6	235.8	237.2	238.4	238.2	237.6	236.5	235.3	233.0
8.40	230.3	227.5	224.5	221.0	217.1	213.1	209.1	205.0	200.6	196.2
8.60	192.0	187.8	183.4	179.2	175.4	171.6	167.9	164.3	161.1	158.0
8.80	155.0	152.1	149.5	147.0	144.6	142.2	140.1	138.1	136.2	134.2
9.00	132.4	130.7	129.1	127.4	125.7	124.3	122.9	121.3	119.8	118.5
9.20	117.1	115.6	114.2	112.9	111.6	110.2	108.8	107.6	106.4	105.1
9.40	103.8	102.6	101.5	100.3	99.1	98.0	97.0	95.9	94.8	93.8
9.60	92.8	91.9	90.9	90.0	89.2	88.4	87.6	86.8	86.1	85.5
9.80	84.8	84.1	83.6	83.1	82.6	82.0	81.5	81.2	80.7	80.2
10.00	79.8	79.5	79.2	78.7	78.4	78.1	77.8	77.4	77.0	76.8
10.20	76.5	76.1	75.7	75.4	75.1	74.8	74.4	74.1	73.8	73.4
10.40	73.0	72.7	72.5	72.1	71.8	71.4	71.2	70.9	70.5	70.2
10.60	70.0	69.8	69.4	69.2	69.0	68.8	68.5	68.3	68.1	68.0
10.80	67.8	67.6	67.5	67.4	67.2	67.0	66.9	66.9	66.7	66.6
11.00	66.4	66.4	66.3	66.1	65.9	65.9	65.8	65.6	65.4	65.3
11.20	65.2	65.0	64.8	64.6	64.5	64.3	64.1	63.9	63.8	63.6
11.40	63.4	63.2	63.1	62.9	62.6	62.4	62.3	62.1	61.9	61.6
11.60	61.5	61.3	61.1	60.8	60.7	60.5	60.2	60.0	59.8	59.6

SUBCATCHMENT 9 Basin L - Subbasin 1

PEAK= 7.51 CFS @ 7.84 HRS, VOLUME= 1.19 AF

ACRES	CN		
2.12	98	Paved Streets	SCS TR-20 METHOD
3.76	85	1/8 Acre Res - Group B Soil	TYPE IA 24-HOUR
5.88	90		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	2.8

SUBCATCHMENT 9 RUNOFF PEAK= 7.51 CFS @ 7.84 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00 |	1.43	1.46	1.50	1.53	1.55	1.56	1.57	1.59	1.60	1.61
6.20 |	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.69	1.70
6.40 |	1.71	1.71	1.72	1.73	1.73	1.73	1.70	1.64	1.62	1.61
6.60 |	1.61	1.62	1.62	1.63	1.64	1.65	1.66	1.68	1.69	1.71
6.80 |	1.72	1.74	1.75	1.77	1.79	1.81	1.84	1.86	1.88	1.91
7.00 |	1.93	1.96	1.99	2.02	2.05	2.08	2.11	2.15	2.18	2.22
7.20 |	2.25	2.29	2.33	2.37	2.41	2.46	2.50	2.55	2.59	2.64
7.40 |	2.69	2.74	2.79	2.84	2.90	3.01	3.86	5.19	5.93	6.30
7.60 |	6.53	6.71	6.85	6.98	7.09	7.19	7.27	7.35	7.41	7.45
7.80 |	7.48	7.50	7.51	7.50	7.48	7.44	7.39	7.32	7.24	7.14
8.00 |	7.00	6.38	5.46	4.95	4.68	4.50	4.35	4.22	4.09	3.97
8.20 |	3.86	3.75	3.64	3.54	3.44	3.35	3.26	3.18	3.10	3.02
8.40 |	2.95	2.89	2.83	2.77	2.72	2.68	2.75	2.89	2.94	2.93
8.60 |	2.90	2.87	2.84	2.80	2.77	2.74	2.70	2.67	2.64	2.61
8.80 |	2.58	2.54	2.51	2.48	2.45	2.43	2.40	2.37	2.34	2.31
9.00 |	2.29	2.25	2.22	2.19	2.17	2.14	2.12	2.10	2.08	2.05
9.20 |	2.03	2.02	2.00	1.98	1.96	1.95	1.93	1.91	1.90	1.89
9.40 |	1.87	1.86	1.85	1.84	1.83	1.82	1.84	1.86	1.87	1.86
9.60 |	1.86	1.85	1.85	1.84	1.83	1.82	1.81	1.81	1.80	1.79
9.80 |	1.78	1.78	1.77	1.76	1.75	1.75	1.74	1.73	1.72	1.72
10.00 |	1.71	1.69	1.68	1.67	1.66	1.65	1.64	1.64	1.63	1.62
10.20 |	1.62	1.61	1.61	1.60	1.60	1.59	1.59	1.58	1.58	1.57
10.40 |	1.57	1.56	1.56	1.56	1.55	1.55	1.56	1.58	1.59	1.59
10.60 |	1.59	1.58	1.58	1.57	1.57	1.56	1.56	1.55	1.55	1.54
10.80 |	1.54	1.53	1.52	1.52	1.51	1.51	1.50	1.50	1.49	1.49
11.00 |	1.48	1.48	1.47	1.47	1.46	1.46	1.45	1.45	1.44	1.44
11.20 |	1.43	1.43	1.42	1.42	1.41	1.41	1.40	1.40	1.39	1.39
11.40 |	1.38	1.37	1.37	1.36	1.36	1.35	1.34	1.33	1.32	1.31
11.60 |	1.31	1.30	1.30	1.29	1.29	1.29	1.28	1.28	1.28	1.27
11.80 |	1.27	1.27	1.27	1.27	1.26	1.26	1.26	1.26	1.26	1.26
12.00 |	1.26									

SUBCATCHMENT 1 Basin M - Overall

PEAK= 91.88 CFS @ 9.07 HRS, VOLUME= 22.94 AF

ACRES	CN	
7.90	98	Paved Streets
22.80	85	1/8 Acre Res - Group B Soil
13.90	92	Commercial
7.00	88	Industrial
80.00	73	Wetlands
145.40	58	Forest - Group B Soil
277.00	68	

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	85.0

SUBCATCHMENT 1 RUNOFF PEAK= 91.88 CFS @ 9.07 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	.86	.92	.99	1.07	1.15	1.23	1.31	1.40	1.49	1.59
6.20	1.69	1.78	1.89	2.01	2.12	2.23	2.35	2.48	2.61	2.74
6.40	2.87	3.01	3.16	3.31	3.45	3.60	3.76	3.93	4.09	4.26
6.60	4.43	4.61	4.79	4.97	5.16	5.34	5.54	5.74	5.93	6.13
6.80	6.33	6.54	6.75	6.96	7.18	7.39	7.61	7.83	8.04	8.26
7.00	8.49	8.72	8.95	9.18	9.41	9.64	9.88	10.11	10.34	10.58
7.20	10.83	11.07	11.32	11.57	11.81	12.06	12.31	12.56	12.81	13.09
7.40	13.36	13.63	13.91	14.19	14.47	14.76	15.04	15.33	15.65	15.99
7.60	16.33	16.67	17.02	17.40	17.79	18.18	18.57	19.00	19.52	20.04
7.80	20.57	21.09	21.70	22.38	23.06	23.74	24.43	25.29	26.19	27.09
8.00	28.00	28.95	30.08	31.24	32.40	33.55	34.81	36.22	37.63	39.04
8.20	40.46	42.03	43.68	45.33	46.98	48.64	50.39	52.15	53.92	55.68
8.40	57.45	59.24	61.02	62.80	64.58	66.30	67.97	69.63	71.29	72.94
8.60	74.41	75.80	77.19	78.59	79.95	81.13	82.29	83.44	84.60	85.62
8.80	86.36	87.10	87.83	88.57	89.18	89.70	90.22	90.74	91.23	91.42
9.00	91.55	91.67	91.79	91.88	91.85	91.82	91.78	91.75	91.59	91.26
9.20	90.93	90.61	90.28	89.90	89.50	89.10	88.70	88.28	87.75	87.19
9.40	86.63	86.08	85.52	84.97	84.43	83.88	83.33	82.75	82.15	81.55
9.60	80.95	80.36	79.80	79.26	78.72	78.17	77.63	77.07	76.50	75.94
9.80	75.37	74.84	74.34	73.84	73.34	72.84	72.33	71.82	71.30	70.79
10.00	70.28	69.82	69.37	68.92	68.47	68.01	67.55	67.08	66.62	66.15
10.20	65.72	65.33	64.94	64.54	64.15	63.75	63.35	62.95	62.54	62.15
10.40	61.82	61.49	61.16	60.83	60.50	60.16	59.81	59.47	59.13	58.83
10.60	58.56	58.28	58.01	57.74	57.45	57.16	56.87	56.57	56.30	56.07
10.80	55.84	55.61	55.39	55.15	54.90	54.66	54.41	54.17	53.96	53.77
11.00	53.59	53.40	53.21	53.01	52.80	52.59	52.39	52.19	52.04	51.89
11.20	51.74	51.59	51.42	51.25	51.07	50.90	50.72	50.59	50.46	50.34
11.40	50.21	50.08	49.93	49.78	49.63	49.47	49.34	49.23	49.12	49.01
11.60	48.90	48.77	48.64	48.50	48.36	48.22	48.12	48.01	47.91	47.81
11.80	47.70	47.57	47.43	47.29	47.16	47.04	46.94	46.83	46.73	46.62

SUBCATCHMENT 2 Basin M - Subbasin 1

PEAK= 9.18 CFS @ 8.16 HRS, VOLUME= 1.66 AF

ACRES	CN		
1.77	98	Paved Streets	SCS TR-20 METHOD
2.92	92	Commercial - Group B Soil	TYPE IA 24-HOUR
.92	85	Trailer Park	RAINFALL= 6.00 IN
5.96	65	Forest/Brush - Fair Condition	SPAN= 6-12 HRS, dt=.02 HRS
11.57	78		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	25.4

SUBCATCHMENT 2 RUNOFF PEAK= 9.18 CFS @ 8.16 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.07	1.08	1.09	1.11	1.12	1.14	1.15	1.17	1.19	1.20
6.20	1.22	1.24	1.26	1.28	1.30	1.32	1.34	1.37	1.39	1.41
6.40	1.43	1.45	1.47	1.49	1.51	1.53	1.55	1.56	1.58	1.60
6.60	1.61	1.63	1.64	1.66	1.67	1.68	1.69	1.70	1.70	1.71
6.80	1.71	1.72	1.73	1.73	1.74	1.75	1.76	1.77	1.78	1.79
7.00	1.81	1.83	1.84	1.86	1.88	1.90	1.92	1.94	1.97	2.00
7.20	2.02	2.05	2.08	2.11	2.14	2.18	2.21	2.25	2.29	2.33
7.40	2.37	2.41	2.45	2.50	2.55	2.60	2.65	2.71	2.77	2.85
7.60	2.93	3.04	3.17	3.32	3.51	3.73	3.97	4.25	4.55	4.86
7.80	5.18	5.51	5.84	6.18	6.50	6.82	7.13	7.42	7.69	7.96
8.00	8.18	8.40	8.59	8.76	8.91	9.02	9.11	9.17	9.18	9.17
8.20	9.13	9.03	8.91	8.78	8.61	8.43	8.24	8.03	7.82	7.61
8.40	7.39	7.19	6.98	6.78	6.59	6.41	6.24	6.08	5.91	5.76
8.60	5.63	5.49	5.37	5.25	5.14	5.06	4.97	4.89	4.83	4.76
8.80	4.71	4.66	4.61	4.56	4.52	4.47	4.43	4.39	4.34	4.30
9.00	4.26	4.22	4.18	4.13	4.09	4.05	4.00	3.96	3.92	3.87
9.20	3.83	3.79	3.75	3.71	3.67	3.63	3.59	3.55	3.51	3.48
9.40	3.44	3.40	3.37	3.34	3.31	3.28	3.25	3.22	3.19	3.16
9.60	3.14	3.12	3.09	3.08	3.06	3.04	3.03	3.01	3.00	2.99
9.80	2.98	2.97	2.96	2.95	2.94	2.94	2.93	2.92	2.91	2.90
10.00	2.89	2.88	2.87	2.86	2.85	2.84	2.83	2.82	2.81	2.80
10.20	2.79	2.78	2.77	2.75	2.74	2.73	2.72	2.71	2.70	2.68
10.40	2.67	2.66	2.65	2.64	2.63	2.62	2.62	2.60	2.60	2.59
10.60	2.58	2.58	2.57	2.56	2.56	2.56	2.55	2.55	2.55	2.55
10.80	2.55	2.54	2.54	2.54	2.54	2.54	2.53	2.53	2.53	2.52
11.00	2.52	2.51	2.51	2.50	2.50	2.49	2.48	2.48	2.47	2.47
11.20	2.46	2.45	2.45	2.44	2.43	2.43	2.42	2.41	2.41	2.40
11.40	2.39	2.38	2.37	2.37	2.36	2.35	2.35	2.34	2.33	2.32
11.60	2.31	2.31	2.30	2.29	2.28	2.27	2.26	2.25	2.25	2.23
11.80	2.23	2.22	2.21	2.20	2.19	2.18	2.18	2.17	2.16	2.15
12.00	2.15									

SUBCATCHMENT 3 Basin M - Subbasin 2

PEAK= 15.30 CFS @ 7.91 HRS, VOLUME= 2.44 AF

ACRES	CN		
3.40	98	Paved Streets	SCS TR-20 METHOD
8.35	86	1/5 Acre Res - Group C Soil	TYPE IA 24-HOUR
.58	72	Forest - Group C Soil	RAINFALL= 6.00 IN
12.33	89		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path - Velocity Method	7.2

SUBCATCHMENT 3 RUNOFF PEAK= 15.30 CFS @ 7.91 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.75	2.78	2.82	2.86	2.91	2.97	3.01	3.05	3.09	3.12
6.20	3.15	3.18	3.20	3.23	3.25	3.27	3.29	3.32	3.34	3.35
6.40	3.37	3.39	3.40	3.42	3.43	3.45	3.45	3.45	3.42	3.38
6.60	3.33	3.30	3.28	3.28	3.28	3.29	3.30	3.31	3.33	3.35
6.80	3.38	3.40	3.43	3.46	3.50	3.53	3.57	3.61	3.65	3.70
7.00	3.74	3.79	3.84	3.89	3.95	4.00	4.06	4.13	4.19	4.25
7.20	4.32	4.39	4.47	4.54	4.62	4.70	4.78	4.87	4.96	5.05
7.40	5.14	5.23	5.33	5.43	5.53	5.64	5.85	6.35	7.30	8.56
7.60	9.86	10.99	11.86	12.53	13.07	13.51	13.88	14.18	14.44	14.67
7.80	14.85	15.00	15.12	15.21	15.27	15.29	15.29	15.26	15.20	15.11
8.00	14.99	14.79	14.37	13.63	12.70	11.76	10.94	10.30	9.79	9.37
8.20	9.00	8.68	8.39	8.12	7.87	7.63	7.41	7.21	7.01	6.82
8.40	6.64	6.48	6.32	6.17	6.03	5.91	5.80	5.74	5.76	5.83
8.60	5.90	5.94	5.95	5.93	5.89	5.84	5.79	5.73	5.66	5.60
8.80	5.54	5.47	5.41	5.34	5.28	5.22	5.16	5.09	5.03	4.98
9.00	4.92	4.86	4.80	4.74	4.68	4.62	4.56	4.51	4.45	4.40
9.20	4.36	4.31	4.27	4.23	4.19	4.15	4.11	4.07	4.04	4.01
9.40	3.98	3.95	3.92	3.89	3.87	3.84	3.82	3.81	3.81	3.82
9.60	3.84	3.84	3.84	3.83	3.83	3.82	3.80	3.79	3.77	3.76
9.80	3.75	3.73	3.71	3.70	3.68	3.67	3.65	3.64	3.62	3.61
10.00	3.59	3.57	3.56	3.53	3.51	3.49	3.46	3.44	3.43	3.41
10.20	3.40	3.38	3.37	3.36	3.34	3.33	3.32	3.31	3.30	3.29
10.40	3.28	3.27	3.26	3.25	3.25	3.24	3.23	3.23	3.24	3.25
10.60	3.27	3.27	3.28	3.27	3.27	3.26	3.25	3.25	3.24	3.23
10.80	3.22	3.21	3.20	3.19	3.17	3.16	3.15	3.14	3.13	3.12
11.00	3.11	3.10	3.09	3.08	3.07	3.06	3.05	3.04	3.03	3.02
11.20	3.01	3.00	2.98	2.97	2.96	2.95	2.94	2.93	2.92	2.91
11.40	2.90	2.89	2.88	2.87	2.86	2.84	2.83	2.82	2.80	2.78
11.60	2.76	2.75	2.73	2.72	2.71	2.70	2.69	2.68	2.67	2.67
11.80	2.66	2.65	2.65	2.64	2.64	2.63	2.63	2.63	2.62	2.62
12.00	2.62									

SUBCATCHMENT 4 Basin O - Subbasin 1

PEAK= 14.52 CFS @ 7.96 HRS, VOLUME= 2.35 AF

ACRES	CN		
1.95	98	Paved Streets	
12.30	80	1/5 Acre Res - Group B Soil	
14.25	82		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	8.6

SUBCATCHMENT 4 RUNOFF PEAK= 14.52 CFS @ 7.96 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.07	2.10	2.13	2.16	2.20	2.24	2.29	2.33	2.36	2.40
6.20	2.43	2.46	2.49	2.51	2.54	2.57	2.59	2.61	2.64	2.66
6.40	2.68	2.70	2.72	2.74	2.76	2.77	2.79	2.80	2.79	2.78
6.60	2.75	2.73	2.72	2.71	2.71	2.71	2.73	2.74	2.76	2.78
6.80	2.80	2.82	2.85	2.88	2.91	2.94	2.98	3.01	3.05	3.09
7.00	3.14	3.18	3.23	3.28	3.33	3.38	3.43	3.49	3.55	3.61
7.20	3.68	3.74	3.81	3.88	3.95	4.03	4.10	4.18	4.27	4.35
7.40	4.44	4.53	4.62	4.72	4.81	4.92	5.07	5.38	5.96	6.82
7.60	7.84	8.87	9.81	10.60	11.24	11.78	12.24	12.64	12.98	13.29
7.80	13.55	13.78	13.97	14.14	14.27	14.38	14.46	14.50	14.52	14.50
8.00	14.46	14.35	14.10	13.65	13.00	12.23	11.46	10.77	10.18	9.70
8.20	9.29	8.93	8.61	8.33	8.06	7.81	7.58	7.37	7.16	6.97
8.40	6.79	6.62	6.45	6.30	6.16	6.02	5.91	5.82	5.79	5.80
8.60	5.85	5.90	5.93	5.93	5.92	5.88	5.84	5.79	5.74	5.68
8.80	5.62	5.56	5.50	5.44	5.38	5.32	5.26	5.21	5.15	5.09
9.00	5.03	4.98	4.92	4.86	4.80	4.74	4.68	4.63	4.58	4.52
9.20	4.48	4.43	4.39	4.34	4.30	4.26	4.22	4.19	4.15	4.12
9.40	4.09	4.06	4.03	4.00	3.97	3.95	3.93	3.91	3.91	3.91
9.60	3.92	3.92	3.93	3.93	3.92	3.92	3.91	3.89	3.88	3.87
9.80	3.86	3.84	3.83	3.81	3.80	3.79	3.77	3.76	3.74	3.73
10.00	3.71	3.70	3.68	3.66	3.64	3.62	3.60	3.57	3.56	3.54
10.20	3.52	3.51	3.49	3.48	3.47	3.46	3.44	3.43	3.42	3.41
10.40	3.40	3.39	3.39	3.38	3.37	3.36	3.36	3.35	3.36	3.37
10.60	3.38	3.39	3.39	3.40	3.39	3.39	3.38	3.38	3.37	3.36
10.80	3.35	3.34	3.33	3.32	3.31	3.30	3.29	3.28	3.27	3.26
11.00	3.25	3.24	3.23	3.22	3.21	3.20	3.19	3.18	3.17	3.16
11.20	3.15	3.14	3.13	3.12	3.11	3.10	3.09	3.07	3.06	3.05
11.40	3.04	3.03	3.02	3.01	3.00	2.99	2.98	2.96	2.95	2.93
11.60	2.91	2.90	2.88	2.87	2.85	2.84	2.83	2.82	2.82	2.81
11.80	2.80	2.79	2.79	2.78	2.78	2.77	2.77	2.76	2.76	2.76
12.00	2.75									

SUBCATCHMENT 5 Basin O - Subbasin 2

PEAK= 15.92 CFS @ 8.01 HRS, VOLUME= 2.59 AF

ACRES	CN		
2.46	98	Paved Streets	
12.87	80	1/5 Acre Res - Group B Soil	
15.33	83		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	12.1

SUBCATCHMENT 5 RUNOFF PEAK= 15.92 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.32	2.34	2.37	2.40	2.43	2.47	2.51	2.55	2.60	2.64
6.20	2.68	2.72	2.75	2.78	2.82	2.85	2.88	2.91	2.93	2.96
6.40	2.99	3.01	3.03	3.06	3.08	3.10	3.12	3.14	3.15	3.15
6.60	3.15	3.14	3.12	3.11	3.10	3.09	3.09	3.09	3.10	3.11
6.80	3.13	3.15	3.17	3.19	3.22	3.25	3.28	3.32	3.35	3.39
7.00	3.43	3.48	3.52	3.57	3.62	3.67	3.73	3.78	3.84	3.90
7.20	3.97	4.03	4.10	4.17	4.25	4.32	4.40	4.49	4.57	4.65
7.40	4.75	4.84	4.93	5.03	5.13	5.23	5.35	5.53	5.82	6.26
7.60	6.91	7.70	8.58	9.48	10.35	11.16	11.89	12.50	13.04	13.52
7.80	13.94	14.31	14.64	14.93	15.18	15.39	15.56	15.71	15.81	15.88
8.00	15.92	15.91	15.83	15.64	15.32	14.87	14.29	13.65	13.00	12.36
8.20	11.76	11.22	10.75	10.33	9.94	9.59	9.27	8.97	8.68	8.42
8.40	8.17	7.94	7.72	7.51	7.32	7.14	6.97	6.82	6.70	6.61
8.60	6.56	6.54	6.54	6.54	6.54	6.53	6.51	6.48	6.43	6.39
8.80	6.33	6.28	6.22	6.15	6.09	6.03	5.96	5.90	5.83	5.77
9.00	5.70	5.64	5.58	5.52	5.45	5.39	5.32	5.26	5.20	5.14
9.20	5.08	5.02	4.97	4.91	4.86	4.81	4.77	4.72	4.68	4.64
9.40	4.60	4.56	4.52	4.49	4.45	4.42	4.39	4.37	4.34	4.33
9.60	4.32	4.32	4.31	4.32	4.31	4.31	4.30	4.30	4.29	4.28
9.80	4.26	4.25	4.24	4.22	4.21	4.19	4.18	4.16	4.15	4.13
10.00	4.11	4.10	4.08	4.06	4.04	4.02	4.00	3.98	3.96	3.93
10.20	3.92	3.90	3.88	3.86	3.85	3.83	3.81	3.80	3.79	3.78
10.40	3.76	3.75	3.74	3.73	3.72	3.71	3.70	3.69	3.69	3.69
10.60	3.69	3.70	3.70	3.71	3.71	3.71	3.71	3.71	3.70	3.70
10.80	3.69	3.68	3.67	3.66	3.65	3.64	3.63	3.62	3.61	3.60
11.00	3.59	3.58	3.57	3.56	3.55	3.53	3.52	3.51	3.50	3.49
11.20	3.48	3.47	3.45	3.44	3.43	3.42	3.41	3.39	3.38	3.37
11.40	3.36	3.35	3.34	3.33	3.31	3.30	3.29	3.28	3.26	3.25
11.60	3.23	3.22	3.20	3.18	3.16	3.15	3.13	3.12	3.11	3.10
11.80	3.09	3.08	3.07	3.06	3.05	3.05	3.04	3.04	3.03	3.03
12.00	3.02									

SUBCATCHMENT 6 Basin O - Subbasin 3

PEAK= 31.48 CFS @ 8.01 HRS, VOLUME= 5.26 AF

ACRES	CN		
4.12	98	Paved Streets	
21.80	72	1/3 Acre Res - Group B Soil	
32.79	58	Forest - Group B Soil	
1.00	85	1/8 Acre Res - Group B Soil	
59.71	66		

SCS TR-20 METHOD
TYPE IA 24-HOUR
RAINFALL= 6.00 IN
SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	8.3

SUBCATCHMENT 6 RUNOFF PEAK= 31.48 CFS @ 8.01 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00 |	1.20	1.26	1.31	1.37	1.44	1.51	1.58	1.65	1.72	1.78
6.20 |	1.85	1.91	1.98	2.04	2.11	2.17	2.24	2.30	2.36	2.42
6.40 |	2.49	2.55	2.61	2.67	2.73	2.79	2.85	2.90	2.93	2.95
6.60 |	2.96	2.98	3.00	3.03	3.06	3.11	3.15	3.21	3.26	3.32
6.80 |	3.38	3.45	3.52	3.59	3.66	3.74	3.82	3.91	3.99	4.08
7.00 |	4.18	4.28	4.38	4.48	4.59	4.71	4.83	4.95	5.08	5.21
7.20 |	5.35	5.49	5.64	5.79	5.95	6.11	6.28	6.45	6.63	6.82
7.40 |	7.01	7.21	7.42	7.63	7.85	8.09	8.43	9.07	10.22	11.92
7.60 |	13.89	15.89	17.72	19.31	20.67	21.88	22.99	24.00	24.94	25.82
7.80 |	26.63	27.39	28.09	28.73	29.31	29.84	30.30	30.69	31.01	31.26
8.00 |	31.43	31.44	31.11	30.25	28.87	27.26	25.65	24.23	23.06	22.12
8.20 |	21.32	20.61	19.98	19.40	18.87	18.37	17.90	17.46	17.03	16.63
8.40 |	16.25	15.89	15.54	15.22	14.91	14.63	14.39	14.23	14.20	14.31
8.60 |	14.47	14.63	14.73	14.77	14.75	14.69	14.61	14.52	14.41	14.29
8.80 |	14.17	14.05	13.92	13.79	13.66	13.54	13.41	13.28	13.15	13.03
9.00 |	12.90	12.78	12.65	12.52	12.39	12.25	12.12	11.99	11.87	11.76
9.20 |	11.65	11.55	11.45	11.35	11.26	11.17	11.09	11.01	10.93	10.85
9.40 |	10.78	10.72	10.65	10.59	10.54	10.48	10.44	10.41	10.41	10.44
9.60 |	10.47	10.50	10.53	10.53	10.53	10.52	10.50	10.48	10.46	10.43
9.80 |	10.41	10.38	10.35	10.32	10.29	10.26	10.23	10.20	10.17	10.14
10.00 |	10.11	10.08	10.04	10.00	9.95	9.89	9.84	9.79	9.75	9.71
10.20 |	9.68	9.65	9.62	9.59	9.56	9.54	9.52	9.49	9.47	9.45
10.40 |	9.43	9.41	9.40	9.38	9.37	9.36	9.35	9.35	9.37	9.40
10.60 |	9.44	9.48	9.50	9.51	9.52	9.51	9.50	9.49	9.47	9.45
10.80 |	9.43	9.41	9.39	9.37	9.35	9.33	9.30	9.28	9.26	9.24
11.00 |	9.21	9.19	9.17	9.14	9.12	9.10	9.07	9.05	9.02	9.00
11.20 |	8.98	8.95	8.93	8.90	8.88	8.85	8.83	8.80	8.78	8.75
11.40 |	8.73	8.70	8.68	8.65	8.63	8.60	8.57	8.54	8.50	8.45
11.60 |	8.40	8.35	8.31	8.28	8.25	8.22	8.20	8.18	8.16	8.14
11.80 |	8.12	8.11	8.09	8.08	8.07	8.06	8.05	8.05	8.04	8.04
12.00 |	8.03									

SUBCATCHMENT 7 Basin O - Subbasin 4

PEAK= 11.54 CFS @ 7.94 HRS, VOLUME= 1.87 AF

ACRES	CN		
2.69	98	Paved Streets	SCS TR-20 METHOD
10.67	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
13.36	77		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.0

SUBCATCHMENT 7 RUNOFF PEAK= 11.54 CFS @ 7.94 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.37	1.39	1.42	1.45	1.49	1.52	1.55	1.58	1.60	1.63
6.20	1.65	1.67	1.69	1.71	1.73	1.75	1.77	1.79	1.81	1.83
6.40	1.85	1.86	1.88	1.90	1.91	1.93	1.94	1.93	1.91	1.89
6.60	1.88	1.87	1.87	1.88	1.89	1.91	1.92	1.94	1.96	1.98
6.80	2.00	2.03	2.05	2.08	2.11	2.14	2.17	2.20	2.24	2.27
7.00	2.31	2.35	2.39	2.43	2.47	2.52	2.57	2.61	2.66	2.72
7.20	2.77	2.83	2.88	2.94	3.00	3.07	3.13	3.20	3.27	3.34
7.40	3.41	3.49	3.57	3.65	3.73	3.82	4.03	4.59	5.53	6.58
7.60	7.51	8.20	8.73	9.16	9.52	9.83	10.11	10.35	10.57	10.77
7.80	10.94	11.10	11.23	11.33	11.42	11.48	11.52	11.54	11.53	11.50
8.00	11.44	11.27	10.83	10.08	9.26	8.56	8.05	7.66	7.35	7.09
8.20	6.86	6.65	6.46	6.28	6.11	5.94	5.79	5.64	5.50	5.37
8.40	5.24	5.12	5.01	4.90	4.80	4.71	4.65	4.65	4.72	4.81
8.60	4.88	4.90	4.89	4.87	4.83	4.79	4.74	4.69	4.64	4.59
8.80	4.55	4.50	4.45	4.40	4.35	4.30	4.26	4.21	4.16	4.12
9.00	4.08	4.03	3.98	3.94	3.89	3.84	3.80	3.76	3.72	3.68
9.20	3.64	3.61	3.58	3.55	3.52	3.49	3.46	3.43	3.41	3.38
9.40	3.36	3.34	3.32	3.30	3.28	3.26	3.25	3.25	3.26	3.28
9.60	3.29	3.29	3.29	3.29	3.28	3.27	3.26	3.25	3.24	3.23
9.80	3.21	3.20	3.19	3.18	3.17	3.16	3.15	3.13	3.12	3.11
10.00	3.10	3.08	3.07	3.05	3.03	3.01	2.99	2.98	2.97	2.96
10.20	2.94	2.93	2.92	2.92	2.91	2.90	2.89	2.88	2.87	2.87
10.40	2.86	2.85	2.85	2.84	2.84	2.83	2.83	2.84	2.85	2.87
10.60	2.88	2.88	2.88	2.88	2.87	2.87	2.86	2.85	2.85	2.84
10.80	2.83	2.82	2.81	2.81	2.80	2.79	2.78	2.77	2.76	2.76
11.00	2.75	2.74	2.73	2.72	2.71	2.71	2.70	2.69	2.68	2.67
11.20	2.66	2.65	2.65	2.64	2.63	2.62	2.61	2.60	2.59	2.59
11.40	2.58	2.57	2.56	2.55	2.54	2.53	2.52	2.51	2.49	2.47
11.60	2.46	2.45	2.44	2.43	2.42	2.41	2.40	2.40	2.39	2.39
11.80	2.38	2.38	2.37	2.37	2.37	2.36	2.36	2.36	2.36	2.36
12.00	2.36									

TYPE IA 24-HOUR RAINFALL= 6.00 IN
Prepared by HBH Consulting Engineers, Inc. 9 Jan 06
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SUBCATCHMENT 8 Basin P

PEAK= 123.7 CFS @ 8.16 HRS, VOLUME= 22.18 AF

ACRES	CN		
21.56	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
7.57	75	1/4 Acre Res - Group B Soil	TYPE IA 24-HOUR
53.87	65	Forest/Brush - Group B Soil	RAINFALL= 6.00 IN
65.00	85	1/8 Acre Res - Group B Soil	SPAN= 6-12 HRS, dt=.02 HRS
4.00	92	Commercial	
3.00	61	Parks/Open Space	
155.00	78		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	25.0

SUBCATCHMENT 8 RUNOFF PEAK= 123.7 CFS @ 8.16 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	14.3	14.5	14.7	14.9	15.1	15.3	15.5	15.7	15.9	16.2
6.20	16.4	16.7	17.0	17.2	17.5	17.8	18.1	18.4	18.7	18.9
6.40	19.2	19.5	19.8	20.0	20.3	20.5	20.8	21.0	21.3	21.5
6.60	21.7	21.9	22.1	22.3	22.4	22.5	22.6	22.8	22.8	22.9
6.80	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.9	24.1
7.00	24.3	24.5	24.7	25.0	25.2	25.5	25.8	26.1	26.4	26.8
7.20	27.2	27.5	28.0	28.4	28.8	29.3	29.7	30.3	30.8	31.3
7.40	31.9	32.5	33.0	33.7	34.3	35.0	35.7	36.4	37.3	38.3
7.60	39.5	40.9	42.7	44.8	47.4	50.5	53.9	57.7	61.8	66.1
7.80	70.5	75.0	79.6	84.1	88.4	92.7	96.8	100.7	104.4	107.7
8.00	110.7	113.6	116.1	118.4	120.3	121.7	122.9	123.5	123.7	123.5
8.20	122.5	121.2	119.6	117.3	115.0	112.6	109.7	107.0	104.1	101.1
8.40	98.3	95.5	92.6	90.1	87.5	85.1	82.9	80.6	78.5	76.5
8.60	74.6	72.9	71.2	69.7	68.4	67.2	66.1	65.1	64.2	63.4
8.80	62.8	62.0	61.5	60.9	60.2	59.7	59.2	58.6	58.1	57.5
9.00	56.9	56.3	55.7	55.2	54.6	54.0	53.4	52.9	52.3	51.7
9.20	51.2	50.6	50.1	49.5	49.0	48.4	47.9	47.4	46.9	46.4
9.40	45.9	45.5	45.0	44.6	44.2	43.7	43.4	43.0	42.6	42.3
9.60	41.9	41.7	41.4	41.1	40.9	40.6	40.4	40.3	40.1	40.0
9.80	39.9	39.7	39.6	39.5	39.4	39.3	39.2	39.0	39.0	38.8
10.00	38.7	38.6	38.4	38.3	38.2	38.0	37.9	37.8	37.6	37.5
10.20	37.3	37.2	37.0	36.8	36.7	36.6	36.4	36.2	36.1	35.9
10.40	35.8	35.6	35.5	35.4	35.2	35.1	35.0	34.8	34.8	34.7
10.60	34.5	34.5	34.4	34.3	34.3	34.2	34.2	34.2	34.1	34.1
10.80	34.1	34.1	34.1	34.1	34.0	34.0	33.9	33.9	33.9	33.8
11.00	33.7	33.7	33.6	33.5	33.4	33.3	33.3	33.2	33.1	33.0
11.20	32.9	32.8	32.8	32.6	32.6	32.5	32.4	32.3	32.2	32.1
11.40	32.0	31.9	31.8	31.7	31.6	31.5	31.4	31.3	31.2	31.1
11.60	31.0	30.9	30.8	30.6	30.5	30.4	30.3	30.2	30.0	29.9
11.80	29.8	29.6	29.5	29.4	29.3	29.2	29.1	29.0	28.9	28.8

SUBCATCHMENT 9 Basin Q

PEAK= 89.73 CFS @ 8.17 HRS, VOLUME= 16.21 AF

ACRES	CN		
1.62	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
9.53	75	1/4 Acre Res - Group B Soil	TYPE IA 24-HOUR
3.80	61	Grass Fields	RAINFALL= 6.00 IN
4.58	92	School	SPAN= 6-12 HRS, dt=.02 HRS
40.00	88	Industrial	
66.90	67	Undeveloped & Wetlands	
126.43	75		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	25.0

SUBCATCHMENT 9 RUNOFF PEAK= 89.73 CFS @ 8.17 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	8.69	8.83	8.96	9.11	9.26	9.40	9.56	9.72	9.88	10.07
6.20	10.24	10.43	10.63	10.82	11.02	11.23	11.42	11.64	11.84	12.04
6.40	12.25	12.45	12.64	12.85	13.03	13.22	13.42	13.59	13.77	13.94
6.60	14.10	14.26	14.40	14.53	14.66	14.76	14.85	14.95	15.02	15.10
6.80	15.18	15.25	15.34	15.42	15.50	15.61	15.71	15.82	15.96	16.09
7.00	16.25	16.42	16.58	16.78	16.98	17.18	17.41	17.64	17.88	18.15
7.20	18.41	18.69	19.01	19.30	19.63	19.98	20.31	20.69	21.07	21.45
7.40	21.88	22.29	22.72	23.20	23.65	24.14	24.66	25.16	25.80	26.54
7.60	27.39	28.47	29.74	31.25	33.12	35.31	37.78	40.52	43.46	46.57
7.80	49.77	53.02	56.35	59.62	62.79	65.99	69.00	71.88	74.66	77.10
8.00	79.42	81.63	83.52	85.28	86.80	87.94	88.93	89.51	89.72	89.67
8.20	89.07	88.19	87.11	85.59	83.98	82.26	80.26	78.31	76.28	74.17
8.40	72.17	70.12	68.11	66.27	64.43	62.71	61.10	59.46	57.97	56.56
8.60	55.15	53.93	52.74	51.62	50.70	49.80	49.01	48.37	47.71	47.16
8.80	46.68	46.16	45.75	45.34	44.89	44.54	44.13	43.71	43.35	42.91
9.00	42.49	42.11	41.65	41.25	40.85	40.40	40.02	39.60	39.16	38.79
9.20	38.35	37.93	37.56	37.13	36.74	36.38	35.96	35.61	35.25	34.86
9.40	34.54	34.19	33.85	33.56	33.23	32.93	32.66	32.35	32.10	31.86
9.60	31.59	31.40	31.19	30.97	30.83	30.66	30.52	30.42	30.29	30.19
9.80	30.12	30.00	29.94	29.87	29.76	29.71	29.62	29.53	29.48	29.37
10.00	29.28	29.21	29.09	29.01	28.93	28.80	28.73	28.62	28.50	28.42
10.20	28.29	28.17	28.08	27.94	27.83	27.72	27.58	27.49	27.38	27.24
10.40	27.16	27.05	26.93	26.86	26.75	26.65	26.59	26.48	26.41	26.35
10.60	26.26	26.22	26.16	26.10	26.09	26.04	26.01	26.02	25.98	25.98
10.80	25.98	25.94	25.94	25.93	25.89	25.89	25.85	25.81	25.80	25.74
11.00	25.70	25.67	25.59	25.55	25.51	25.42	25.39	25.32	25.24	25.21
11.20	25.13	25.06	25.01	24.92	24.86	24.80	24.71	24.66	24.59	24.50
11.40	24.45	24.37	24.28	24.23	24.14	24.07	24.01	23.91	23.85	23.78
11.60	23.68	23.62	23.53	23.43	23.37	23.26	23.16	23.09	22.98	22.89
11.80	22.81	22.69	22.62	22.53	22.43	22.37	22.28	22.20	22.15	22.07
12.00	22.01									

SUBCATCHMENT 10 Basin R

PEAK= 42.31 CFS @ 8.11 HRS, VOLUME= 7.37 AF

ACRES	CN		SCS TR-20 METHOD
5.10	89	Paved Streets w/ open ditches	TYPE IA 24-HOUR
17.00	75	1/4 Acre Res - Group B Soil	RAINFALL= 6.00 IN
14.00	69	Park	SPAN= 6-12 HRS, dt=.02 HRS
13.30	66	Undeveloped	
10.00	85	1/8 Acre Res - Group B Soil	
59.40	74		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	20.0

SUBCATCHMENT 10 RUNOFF PEAK= 42.31 CFS @ 8.11 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	3.88	3.94	4.01	4.08	4.15	4.22	4.30	4.38	4.47	4.56
6.20	4.65	4.74	4.84	4.93	5.04	5.13	5.23	5.32	5.41	5.50
6.40	5.59	5.68	5.77	5.86	5.94	6.02	6.10	6.18	6.25	6.33
6.60	6.39	6.45	6.50	6.54	6.58	6.61	6.64	6.66	6.69	6.72
6.80	6.75	6.79	6.82	6.88	6.92	6.99	7.05	7.12	7.19	7.28
7.00	7.36	7.45	7.55	7.65	7.77	7.87	8.00	8.12	8.25	8.39
7.20	8.53	8.69	8.84	9.01	9.17	9.35	9.52	9.72	9.91	10.12
7.40	10.33	10.54	10.77	11.00	11.25	11.49	11.77	12.06	12.43	12.89
7.60	13.47	14.21	15.13	16.26	17.57	19.05	20.63	22.30	23.99	25.72
7.80	27.40	29.04	30.64	32.11	33.53	34.78	36.00	37.07	38.10	39.02
8.00	39.85	40.62	41.24	41.77	42.08	42.30	42.25	42.04	41.54	40.87
8.20	40.03	39.05	38.03	36.89	35.78	34.61	33.52	32.41	31.39	30.41
8.40	29.50	28.64	27.80	27.04	26.27	25.58	24.88	24.26	23.65	23.10
8.60	22.60	22.14	21.77	21.42	21.17	20.92	20.74	20.56	20.42	20.27
8.80	20.14	20.01	19.86	19.73	19.56	19.42	19.24	19.08	18.89	18.73
9.00	18.55	18.36	18.20	18.00	17.84	17.65	17.48	17.29	17.12	16.94
9.20	16.76	16.59	16.40	16.24	16.06	15.91	15.74	15.59	15.43	15.29
9.40	15.14	15.00	14.88	14.74	14.62	14.49	14.39	14.27	14.18	14.08
9.60	13.99	13.92	13.85	13.80	13.74	13.71	13.67	13.65	13.62	13.60
9.80	13.57	13.54	13.52	13.48	13.46	13.42	13.39	13.35	13.32	13.27
10.00	13.23	13.20	13.15	13.11	13.06	13.02	12.96	12.92	12.86	12.81
10.20	12.76	12.70	12.65	12.59	12.54	12.48	12.44	12.38	12.34	12.29
10.40	12.24	12.20	12.16	12.13	12.08	12.05	12.01	11.99	11.95	11.93
10.60	11.91	11.89	11.88	11.87	11.88	11.87	11.88	11.87	11.88	11.87
10.80	11.87	11.87	11.86	11.86	11.83	11.83	11.80	11.79	11.76	11.74
11.00	11.71	11.68	11.66	11.63	11.61	11.57	11.55	11.51	11.49	11.45
11.20	11.42	11.39	11.35	11.33	11.29	11.26	11.22	11.20	11.16	11.13
11.40	11.09	11.06	11.03	10.99	10.96	10.92	10.89	10.85	10.82	10.78
11.60	10.74	10.70	10.66	10.62	10.57	10.53	10.48	10.44	10.39	10.35
11.80	10.31	10.26	10.23	10.19	10.16	10.12	10.10	10.07	10.05	10.02
12.00	10.00									

SUBCATCHMENT 1 Basin S

PEAK= 140.9 CFS @ 8.05 HRS, VOLUME= 23.51 AF

ACRES	CN		
90.48	85	1/8 Acre Res - Group B Soil	SCS TR-20 METHOD
14.61	89	Paved Streets w/ open ditches	TYPE IA 24-HOUR
30.34	65	Forest/Meadow/Wetlands	RAINFALL= 6.00 IN
4.98	92	Commercial	SPAN= 6-12 HRS, dt=.02 HRS
1.44	85	Gravel Lot	
3.80	88	School/Industrial	
2.16	61	Park	
147.81	81		

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	16.1

SUBCATCHMENT 1 RUNOFF PEAK= 140.9 CFS @ 8.05 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	18.8	19.0	19.2	19.5	19.7	20.0	20.3	20.6	21.0	21.3
6.20	21.6	22.0	22.3	22.6	23.0	23.3	23.6	23.9	24.1	24.4
6.40	24.7	24.9	25.2	25.4	25.7	25.9	26.1	26.3	26.5	26.6
6.60	26.7	26.8	26.8	26.8	26.8	26.8	26.7	26.7	26.7	26.8
6.80	26.9	27.0	27.1	27.3	27.5	27.6	27.9	28.1	28.4	28.7
7.00	29.0	29.3	29.7	30.1	30.4	30.9	31.3	31.7	32.2	32.7
7.20	33.2	33.7	34.3	34.9	35.5	36.1	36.8	37.4	38.1	38.9
7.40	39.6	40.3	41.1	41.9	42.8	43.6	44.6	45.8	47.4	49.6
7.60	52.6	56.5	61.4	67.1	73.3	79.8	86.2	92.7	98.7	104.4
7.80	109.6	114.2	118.4	122.1	125.6	128.6	131.4	133.7	135.8	137.6
8.00	139.0	140.1	140.7	140.8	140.1	138.8	136.4	133.3	129.5	125.1
8.20	120.7	116.0	111.5	107.0	102.8	99.0	95.4	92.2	89.0	86.2
8.40	83.4	80.9	78.5	76.2	74.0	72.0	70.1	68.3	66.8	65.3
8.60	64.2	63.2	62.5	61.9	61.5	61.2	60.9	60.6	60.3	60.0
8.80	59.6	59.1	58.7	58.1	57.7	57.1	56.6	56.0	55.4	54.9
9.00	54.3	53.7	53.1	52.6	52.0	51.4	50.8	50.3	49.7	49.1
9.20	48.6	48.0	47.5	47.0	46.5	46.0	45.5	45.1	44.6	44.2
9.40	43.8	43.4	43.0	42.6	42.3	41.9	41.6	41.3	41.1	40.8
9.60	40.6	40.5	40.3	40.2	40.2	40.1	40.0	40.0	39.9	39.9
9.80	39.8	39.7	39.6	39.4	39.3	39.2	39.1	38.9	38.8	38.7
10.00	38.5	38.4	38.2	38.1	37.9	37.8	37.6	37.4	37.3	37.1
10.20	36.9	36.7	36.5	36.3	36.2	36.0	35.9	35.7	35.6	35.5
10.40	35.3	35.2	35.1	35.0	34.9	34.8	34.7	34.6	34.5	34.5
10.60	34.4	34.4	34.4	34.4	34.4	34.5	34.5	34.5	34.5	34.5
10.80	34.4	34.4	34.3	34.2	34.2	34.1	34.0	33.9	33.9	33.8
11.00	33.7	33.6	33.5	33.4	33.3	33.2	33.1	33.0	32.9	32.8
11.20	32.7	32.6	32.5	32.4	32.3	32.2	32.1	32.0	31.8	31.7
11.40	31.6	31.5	31.4	31.3	31.2	31.1	31.0	30.9	30.8	30.6
11.60	30.5	30.4	30.2	30.1	30.0	29.8	29.7	29.5	29.4	29.3
11.80	29.2	29.1	29.0	28.9	28.8	28.7	28.6	28.5	28.5	28.4

SUBCATCHMENT 2 Basin S - Subbasin 1

PEAK= 14.84 CFS @ 7.96 HRS, VOLUME= 2.42 AF

ACRES	CN		
3.09	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
15.45	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
18.54	75		RAINFALL= 6.00 IN
			SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	6.1

SUBCATCHMENT 2 RUNOFF PEAK= 14.84 CFS @ 7.96 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	1.59	1.62	1.65	1.69	1.74	1.78	1.82	1.85	1.88	1.91
6.20	1.94	1.97	2.00	2.03	2.05	2.08	2.11	2.13	2.15	2.18
6.40	2.20	2.23	2.25	2.27	2.29	2.31	2.33	2.33	2.31	2.28
6.60	2.26	2.26	2.26	2.28	2.29	2.31	2.33	2.36	2.38	2.41
6.80	2.44	2.47	2.50	2.54	2.57	2.61	2.65	2.69	2.74	2.78
7.00	2.83	2.88	2.93	2.99	3.04	3.10	3.16	3.22	3.29	3.35
7.20	3.42	3.49	3.57	3.64	3.72	3.80	3.89	3.97	4.06	4.16
7.40	4.25	4.35	4.45	4.55	4.66	4.78	5.03	5.70	6.86	8.18
7.60	9.36	10.27	10.96	11.53	12.00	12.42	12.79	13.12	13.42	13.69
7.80	13.94	14.15	14.34	14.49	14.63	14.72	14.80	14.83	14.84	14.81
8.00	14.75	14.55	14.02	13.09	12.06	11.15	10.48	9.98	9.57	9.23
8.20	8.93	8.66	8.41	8.18	7.96	7.75	7.55	7.36	7.18	7.01
8.40	6.84	6.69	6.54	6.40	6.28	6.16	6.07	6.07	6.16	6.28
8.60	6.37	6.40	6.39	6.36	6.32	6.26	6.21	6.15	6.08	6.02
8.80	5.96	5.89	5.83	5.77	5.71	5.65	5.59	5.53	5.47	5.41
9.00	5.35	5.30	5.23	5.17	5.11	5.05	4.99	4.94	4.89	4.84
9.20	4.79	4.75	4.71	4.67	4.63	4.59	4.55	4.52	4.48	4.45
9.40	4.42	4.39	4.37	4.34	4.32	4.30	4.28	4.28	4.30	4.32
9.60	4.34	4.34	4.34	4.33	4.32	4.31	4.30	4.29	4.27	4.26
9.80	4.24	4.23	4.21	4.20	4.18	4.17	4.15	4.14	4.12	4.11
10.00	4.09	4.08	4.05	4.03	4.00	3.98	3.96	3.94	3.92	3.91
10.20	3.90	3.88	3.87	3.86	3.85	3.83	3.82	3.81	3.81	3.79
10.40	3.79	3.78	3.77	3.76	3.76	3.75	3.75	3.76	3.78	3.80
10.60	3.81	3.82	3.82	3.82	3.81	3.80	3.79	3.78	3.77	3.76
10.80	3.75	3.74	3.73	3.72	3.71	3.70	3.69	3.68	3.67	3.66
11.00	3.65	3.64	3.63	3.61	3.60	3.59	3.58	3.57	3.56	3.55
11.20	3.54	3.53	3.52	3.50	3.49	3.48	3.47	3.46	3.45	3.44
11.40	3.43	3.41	3.40	3.39	3.38	3.37	3.35	3.34	3.31	3.29
11.60	3.27	3.25	3.24	3.23	3.22	3.21	3.20	3.19	3.18	3.18
11.80	3.17	3.16	3.16	3.15	3.15	3.15	3.14	3.14	3.14	3.14
12.00	3.14									

SUBCATCHMENT 3 Basin T

PEAK= 58.31 CFS @ 8.02 HRS, VOLUME= 9.76 AF

ACRES	CN		
8.43	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
50.05	72	1/3 Acre Res - Group B Soil	TYPE IA 24-HOUR
47.17	58	Forest	RAINFALL= 6.00 IN
105.65	67		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	9.8

SUBCATCHMENT 3 RUNOFF PEAK= 58.31 CFS @ 8.02 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	2.68	2.78	2.88	2.99	3.10	3.23	3.36	3.49	3.62	3.75
6.20	3.87	3.99	4.11	4.24	4.35	4.47	4.59	4.71	4.83	4.94
6.40	5.06	5.17	5.28	5.40	5.51	5.62	5.72	5.82	5.89	5.94
6.60	5.98	6.00	6.03	6.07	6.12	6.18	6.26	6.34	6.44	6.54
6.80	6.64	6.76	6.88	7.00	7.13	7.27	7.41	7.56	7.71	7.88
7.00	8.04	8.22	8.40	8.59	8.79	9.00	9.21	9.43	9.66	9.89
7.20	10.14	10.40	10.66	10.93	11.22	11.51	11.82	12.13	12.46	12.79
7.40	13.14	13.50	13.87	14.25	14.65	15.06	15.60	16.48	18.00	20.33
7.60	23.32	26.66	30.03	33.22	36.08	38.60	40.86	42.93	44.83	46.59
7.80	48.22	49.73	51.13	52.41	53.58	54.64	55.58	56.40	57.10	57.67
8.00	58.11	58.31	58.07	57.17	55.46	53.14	50.52	47.90	45.47	43.38
8.20	41.62	40.09	38.73	37.50	36.38	35.34	34.37	33.46	32.60	31.78
8.40	31.01	30.28	29.58	28.93	28.31	27.73	27.21	26.81	26.57	26.54
8.60	26.65	26.84	27.02	27.15	27.19	27.15	27.05	26.91	26.74	26.55
8.80	26.34	26.12	25.90	25.66	25.43	25.19	24.96	24.72	24.49	24.25
9.00	24.02	23.79	23.55	23.32	23.07	22.82	22.57	22.33	22.10	21.88
9.20	21.67	21.47	21.27	21.08	20.91	20.73	20.57	20.41	20.25	20.11
9.40	19.97	19.83	19.71	19.59	19.48	19.37	19.28	19.20	19.16	19.16
9.60	19.19	19.23	19.27	19.30	19.30	19.30	19.28	19.25	19.21	19.17
9.80	19.13	19.08	19.03	18.98	18.92	18.87	18.81	18.76	18.70	18.65
10.00	18.59	18.53	18.46	18.39	18.31	18.22	18.12	18.04	17.95	17.87
10.20	17.80	17.74	17.68	17.62	17.57	17.52	17.47	17.42	17.38	17.34
10.40	17.30	17.27	17.23	17.20	17.17	17.15	17.12	17.11	17.12	17.16
10.60	17.21	17.27	17.32	17.35	17.37	17.38	17.37	17.35	17.33	17.30
10.80	17.27	17.23	17.20	17.16	17.12	17.08	17.04	17.00	16.96	16.92
11.00	16.88	16.83	16.79	16.75	16.70	16.66	16.61	16.57	16.53	16.48
11.20	16.44	16.39	16.35	16.30	16.26	16.21	16.16	16.12	16.07	16.02
11.40	15.98	15.93	15.88	15.84	15.79	15.74	15.69	15.64	15.57	15.49
11.60	15.41	15.33	15.25	15.18	15.11	15.06	15.01	14.96	14.92	14.88
11.80	14.85	14.81	14.79	14.76	14.73	14.71	14.70	14.68	14.67	14.66
12.00	14.65									

SUBCATCHMENT 4 Basin U

PEAK= 20.86 CFS @ 8.07 HRS, VOLUME= 3.67 AF

ACRES	CN		
1.62	89	Paved Streets w/ open ditches	SCS TR-20 METHOD
10.00	68	1 Acre Res - Group B Soil	TYPE IA 24-HOUR
44.61	58	Forest	RAINFALL= 6.00 IN
56.23	61		SPAN= 6-12 HRS, dt=.02 HRS

Method	Comment	Tc (min)
DIRECT ENTRY	Longest Path (Velocity Method)	13.6

SUBCATCHMENT 4 RUNOFF PEAK= 20.86 CFS @ 8.07 HOURS

HOUR	0.00	.02	.04	.06	.08	.10	.12	.14	.16	.18
6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.20	0.00	.01	.02	.03	.04	.07	.09	.12	.16	.19
6.40	.23	.28	.32	.36	.41	.46	.50	.55	.60	.64
6.60	.68	.73	.76	.80	.84	.88	.92	.96	1.00	1.04
6.80	1.08	1.13	1.17	1.22	1.27	1.32	1.37	1.42	1.48	1.53
7.00	1.59	1.65	1.71	1.77	1.84	1.91	1.98	2.05	2.13	2.21
7.20	2.29	2.37	2.46	2.55	2.64	2.74	2.84	2.95	3.06	3.17
7.40	3.29	3.41	3.53	3.66	3.80	3.94	4.09	4.29	4.56	4.94
7.60	5.47	6.15	6.95	7.84	8.77	9.72	10.66	11.58	12.43	13.25
7.80	14.04	14.79	15.51	16.21	16.86	17.49	18.08	18.62	19.14	19.62
8.00	20.03	20.41	20.69	20.83	20.84	20.65	20.26	19.75	19.13	18.46
8.20	17.80	17.16	16.55	16.01	15.52	15.07	14.65	14.26	13.88	13.54
8.40	13.20	12.88	12.59	12.30	12.03	11.78	11.54	11.32	11.15	11.00
8.60	10.91	10.87	10.86	10.87	10.89	10.90	10.91	10.91	10.89	10.85
8.80	10.81	10.75	10.68	10.62	10.54	10.47	10.40	10.31	10.23	10.15
9.00	10.06	9.98	9.90	9.81	9.73	9.64	9.55	9.46	9.37	9.28
9.20	9.20	9.11	9.03	8.95	8.88	8.80	8.73	8.67	8.60	8.54
9.40	8.48	8.42	8.37	8.31	8.26	8.22	8.17	8.13	8.10	8.08
9.60	8.06	8.06	8.06	8.07	8.08	8.08	8.08	8.09	8.09	8.08
9.80	8.07	8.06	8.05	8.04	8.02	8.00	7.99	7.97	7.95	7.94
10.00	7.91	7.89	7.88	7.85	7.83	7.80	7.77	7.74	7.71	7.68
10.20	7.65	7.62	7.59	7.57	7.55	7.52	7.50	7.49	7.46	7.45
10.40	7.43	7.42	7.40	7.39	7.38	7.37	7.36	7.35	7.34	7.35
10.60	7.35	7.37	7.38	7.39	7.41	7.43	7.43	7.44	7.45	7.44
10.80	7.44	7.43	7.42	7.42	7.41	7.39	7.38	7.37	7.35	7.34
11.00	7.33	7.31	7.30	7.28	7.27	7.25	7.24	7.22	7.20	7.19
11.20	7.17	7.16	7.14	7.12	7.10	7.08	7.07	7.05	7.03	7.01
11.40	7.00	6.98	6.96	6.94	6.92	6.90	6.89	6.87	6.84	6.82
11.60	6.79	6.77	6.74	6.71	6.68	6.65	6.63	6.60	6.58	6.56
11.80	6.54	6.53	6.51	6.50	6.49	6.47	6.46	6.46	6.45	6.44
12.00	6.44									