

Appendix C

*****80-80 LIST OF INPUT DATA FOR TR-20 HYDROLOGY*****

JOB	TR-20	ECON	SUMMARY	NOPLOTS	
TITLE	004	JONES POINT PARK EXISTING CONDITIONS			
TITLE	000	FILENAME: JPPEX1.dat	7/22/05	BY: TLH	
6	RUNOFF	1 001	6 0.0235	83.0 0.20	1 1 1 1 1 1 DA-1 D
6	RUNOFF	1 001	6 0.0339	86.1 0.25	1 1 1 1 1 1 DA-2 D
ENDATA					
7	INCREM	6	0.05		
7	COMPUT	7 001 001	0.00	3.11 1.00	2 2 1 2 2-YR
ENDCMP 1					
7	COMPUT	7 001 001	0.00	4.00 1.00	2 2 1 5 5-YR
ENDCMP 1					
7	COMPUT	7 001 001	0.00	4.78 1.00	2 2 1 10 10-YR
ENDCMP 1					
7	COMPUT	7 001 001	0.00	5.99 1.00	2 2 1 25 25-YR
ENDCMP 1					
7	COMPUT	7 001 001	0.00	7.05 1.00	2 2 1 50 50-YR
ENDCMP 1					
7	COMPUT	7 001 001	0.00	8.26 1.00	2 2 1 99 100-YR
ENDCMP 1					
ENDJOB 2					

*****END OF 80-80 LIST*****

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS VERSION
 09/16/** FILENAME: JPPEX1.dat 7/22/05 BY: TLH 2.04TEST
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EXECUTIVE CONTROL INCREM MAIN TIME INCREMENT = .050 HOURS

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 2-YR
 STARTING TIME = .00 RAIN DEPTH = 3.11 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. = 2 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.02 30.1 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 2
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .02 SQ.MI.

HRS	CFS	.49	.53	.56	.60	.64	.68	.72	.76
10.70	CFS	.49	.53	.56	.60	.64	.68	.72	.76
11.10	CFS	.82	.88	.95	1.03	1.12	1.21	1.32	1.42
11.50	CFS	1.54	1.77	2.30	3.23	4.82	7.00	10.00	14.18
11.90	CFS	20.38	26.57	29.91	29.11	23.95	17.34	12.13	9.11
12.30	CFS	7.32	6.18	5.39	4.81	4.30	3.87	3.52	3.25
12.70	CFS	3.05	2.90	2.79	2.69	2.59	2.50	2.41	2.33
13.10	CFS	2.25	2.18	2.12	2.06	2.01	1.96	1.91	1.87
13.50	CFS	1.82	1.77	1.73	1.69	1.65	1.61	1.57	1.54
13.90	CFS	1.50	1.47	1.44	1.40	1.37	1.35	1.33	1.31
14.30	CFS	1.30	1.28	1.27	1.26	1.25	1.24	1.22	1.21
14.70	CFS	1.20	1.19	1.18	1.17	1.15	1.14	1.13	1.12
15.10	CFS	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02
15.50	CFS	1.01	1.00	.98	.97	.96	.95	.94	.92
15.90	CFS	.91	.90	.89	.87	.86	.85	.85	.84
16.30	CFS	.84	.83	.83	.82	.82	.81	.81	.80
16.70	CFS	.80	.80	.79	.79	.78	.78	.77	.77
17.10	CFS	.77	.76	.76	.75	.75	.74	.74	.74
17.50	CFS	.73	.73	.72	.72	.71	.71	.70	.70
17.90	CFS	.70	.69	.69	.68	.68	.67	.67	.66
18.30	CFS	.66	.66	.65	.65	.64	.64	.63	.63
18.70	CFS	.62	.62	.62	.61	.61	.60	.60	.59
19.10	CFS	.59	.58	.58	.57	.57	.57	.56	.56
19.50	CFS	.55	.55	.54	.54	.53	.53	.52	.52
19.90	CFS	.51	.51	.51	.50	.50			

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 1.54 WATERSHED INCHES; 23 CFS-HRS; 1.9 ACRE-FEET.

DURATION(HRS) 2 4 6 8 9
 FLOW(CFS) 2 1 1 1 0

--- XSECTION 1, ALTERNATE 1, STORM 2, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.04 PEAK DISCHARGE(CFS) 46.3 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 2
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	CFS	.49	.51	.54	.56	.58	.61	.64	.67
9.85	CFS	.49	.51	.54	.56	.58	.61	.64	.67
10.25	CFS	.70	.73	.77	.81	.85	.88	.93	.97
10.65	CFS	1.02	1.07	1.13	1.19	1.26	1.32	1.39	1.47
11.05	CFS	1.55	1.63	1.74	1.85	1.99	2.14	2.30	2.47
11.45	CFS	2.65	2.84	3.18	3.83	5.16	7.22	10.39	14.47
11.85	CFS	20.38	28.40	37.62	44.58	46.14	42.23	33.89	25.54
12.25	CFS	19.18	14.96	12.28	10.34	8.96	7.86	6.98	6.24
12.65	CFS	5.65	5.18	4.85	4.59	4.40	4.22	4.07	3.92
13.05	CFS	3.77	3.64	3.52	3.41	3.31	3.23	3.14	3.06
13.45	CFS	2.99	2.91	2.84	2.76	2.69	2.63	2.57	2.51
13.85	CFS	2.45	2.40	2.34	2.29	2.23	2.18	2.14	2.10
14.25	CFS	2.07	2.05	2.02	2.00	1.98	1.96	1.94	1.92
14.65	CFS	1.90	1.89	1.87	1.85	1.83	1.81	1.79	1.77
15.05	CFS	1.75	1.74	1.72	1.70	1.68	1.66	1.64	1.62
15.45	CFS	1.60	1.58	1.56	1.54	1.52	1.51	1.49	1.47
15.85	CFS	1.45	1.43	1.41	1.39	1.37	1.35	1.34	1.32
16.25	CFS	1.31	1.30	1.29	1.29	1.28	1.27	1.27	1.26
16.65	CFS	1.25	1.24	1.24	1.23	1.22	1.22	1.21	1.20
17.05	CFS	1.20	1.19	1.18	1.18	1.17	1.16	1.16	1.15
17.45	CFS	1.14	1.14	1.13	1.12	1.11	1.11	1.10	1.09
17.85	CFS	1.09	1.08	1.07	1.07	1.06	1.05	1.05	1.04
18.25	CFS	1.03	1.02	1.02	1.01	1.00	1.00	.99	.98
18.65	CFS	.98	.97	.96	.95	.95	.94	.93	.93
19.05	CFS	.92	.91	.91	.90	.89	.88	.88	.87
19.45	CFS	.86	.86	.85	.84	.83	.83	.82	.81
19.85	CFS	.81	.80	.79	.78	.78	.77	.77	.76
20.25	CFS	.76	.76	.75	.75	.75	.75	.75	.75
20.65	CFS	.74	.74	.74	.74	.74	.74	.74	.73
21.05	CFS	.73	.73	.73	.73	.73	.73	.73	.72
21.45	CFS	.72	.72	.72	.72	.72	.72	.71	.71
21.85	CFS	.71	.71	.71	.71	.71	.70	.70	.70
22.25	CFS	.70	.70	.70	.70	.70	.69	.69	.69
22.65	CFS	.69	.69	.69	.69	.68	.68	.68	.68
23.05	CFS	.68	.68	.68	.67	.67	.67	.67	.67
23.45	CFS	.67	.67	.67	.66	.66	.66	.66	.66
23.85	CFS	.66	.66	.65	.65	.63	.55	.41	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 1.76 WATERSHED INCHES; 39 CFS-HRS; 3.2 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	14
FLOW(CFS)	3	2	1	1	1	1	1	0

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS VERSION
 09/16/** FILENAME: JPPEX1.dat 7/22/05 BY: TLH 2.04TEST
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--- XSECTION 1, ALTERNATE 1, STORM 2, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 1

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 5-YR
 STARTING TIME = .00 RAIN DEPTH = 4.00 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. = 5 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.01 44.5 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 5
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .02 SQ.MI.

HRS	MAIN	TIME	INCREMENT	=	.050	hr,	DRAINAGE	AREA	=	.02	SQ.MI.
9.90	CFS	.49	.51	.53	.55	.58	.60	.63	.66		
10.30	CFS	.69	.73	.76	.80	.84	.87	.92	.96		
10.70	CFS	1.01	1.07	1.13	1.19	1.25	1.32	1.39	1.46		
11.10	CFS	1.54	1.64	1.76	1.90	2.04	2.20	2.36	2.53		
11.50	CFS	2.71	3.07	3.98	5.55	8.07	11.49	16.04	22.16		
11.90	CFS	31.34	40.26	44.43	42.63	34.99	25.32	17.64	13.16		
12.30	CFS	10.51	8.86	7.71	6.83	6.10	5.49	4.98	4.59		
12.70	CFS	4.31	4.10	3.93	3.79	3.65	3.52	3.40	3.28		
13.10	CFS	3.16	3.06	2.98	2.90	2.82	2.75	2.69	2.62		
13.50	CFS	2.55	2.49	2.42	2.36	2.31	2.25	2.20	2.16		
13.90	CFS	2.11	2.06	2.01	1.96	1.92	1.88	1.86	1.83		
14.30	CFS	1.81	1.79	1.78	1.76	1.74	1.72	1.71	1.69		
14.70	CFS	1.67	1.66	1.64	1.62	1.61	1.59	1.57	1.56		
15.10	CFS	1.54	1.52	1.51	1.49	1.47	1.45	1.44	1.42		
15.50	CFS	1.40	1.39	1.37	1.35	1.33	1.32	1.30	1.28		
15.90	CFS	1.26	1.25	1.23	1.21	1.20	1.18	1.17	1.17		
16.30	CFS	1.16	1.15	1.15	1.14	1.13	1.13	1.12	1.11		
16.70	CFS	1.11	1.10	1.10	1.09	1.08	1.08	1.07	1.07		
17.10	CFS	1.06	1.05	1.05	1.04	1.04	1.03	1.02	1.02		
17.50	CFS	1.01	1.01	1.00	.99	.99	.98	.97	.97		
17.90	CFS	.96	.96	.95	.94	.94	.93	.92	.92		
18.30	CFS	.91	.91	.90	.89	.89	.88	.87	.87		
18.70	CFS	.86	.86	.85	.84	.84	.83	.82	.82		
19.10	CFS	.81	.81	.80	.79	.79	.78	.77	.77		
19.50	CFS	.76	.75	.75	.74	.73	.73	.72	.72		
19.90	CFS	.71	.70	.70	.69	.69	.68	.68	.68		
20.30	CFS	.67	.67	.67	.67	.67	.67	.67	.66		
20.70	CFS	.66	.66	.66	.66	.66	.66	.66	.65		
21.10	CFS	.65	.65	.65	.65	.65	.65	.65	.65		

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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21.50 CFS	.64	.64	.64	.64	.64	.64	.64	.64
21.90 CFS	.63	.63	.63	.63	.63	.63	.63	.63
22.30 CFS	.62	.62	.62	.62	.62	.62	.62	.62
22.70 CFS	.61	.61	.61	.61	.61	.61	.61	.61
23.10 CFS	.60	.60	.60	.60	.60	.60	.60	.60
23.50 CFS	.60	.59	.59	.59	.59	.59	.59	.59
23.90 CFS	.59	.58	.58	.54	.43			

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.28 WATERSHED INCHES; 35 CFS-HRS; 2.9 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	14
FLOW(CFS)	3	2	1	1	1	1	1	0

--- XSECTION 1, ALTERNATE 1, STORM 5, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.04 PEAK DISCHARGE(CFS) 66.6 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 5
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	8.65	9.05	9.45	9.85	10.25	10.65	11.05	11.45	11.85	12.25	12.65	13.05	13.45	13.85	14.25	14.65	15.05	15.45	15.85	16.25	16.65	17.05	17.45	17.85	18.25	18.65	19.05
CFS	.49	.66	.80	.98	1.32	1.83	2.65	4.35	30.76	27.06	7.81	5.19	4.10	3.36	2.83	2.60	2.39	2.18	1.97	1.78	1.70	1.63	1.55	1.47	1.40	1.32	1.24
	.51	.68	.82	1.02	1.38	1.91	2.78	4.64	42.18	21.02	7.16	5.01	3.99	3.28	2.80	2.57	2.37	2.16	1.94	1.77	1.69	1.62	1.54	1.46	1.39	1.31	1.24
	.53	.71	.83	1.05	1.43	2.00	2.94	5.16	55.10	17.20	6.69	4.84	3.89	3.21	2.76	2.55	2.34	2.13	1.92	1.76	1.67	1.61	1.53	1.45	1.37	1.30	1.23
	.55	.72	.85	1.09	1.49	2.10	3.12	6.16	64.58	14.44	6.33	4.69	3.79	3.13	2.73	2.52	2.31	2.10	1.89	1.75	1.67	1.60	1.52	1.44	1.37	1.29	1.22
	.57	.74	.86	1.13	1.56	2.20	3.34	8.22	66.26	12.48	6.06	4.55	3.69	3.06	2.71	2.50	2.29	2.08	1.86	1.74	1.66	1.59	1.51	1.44	1.36	1.28	1.21
	.59	.76	.89	1.18	1.62	2.31	3.57	11.37	60.25	10.92	5.82	4.43	3.60	2.99	2.68	2.47	2.26	2.05	1.84	1.73	1.65	1.58	1.50	1.43	1.35	1.27	1.20
	.61	.77	.92	1.22	1.68	2.42	3.82	16.15	48.14	9.68	5.60	4.32	3.52	2.93	2.65	2.44	2.23	2.02	1.82	1.72	1.64	1.57	1.49	1.42	1.34	1.26	1.19
	.64	.79	.95	1.27	1.75	2.53	4.08	22.21	36.15	8.64	5.39	4.21	3.44	2.88	2.63	2.42	2.21	2.00	1.80	1.71	1.64	1.56	1.48	1.41	1.33	1.25	1.18

TR20 ----- SCS -
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19.45 CFS	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10
19.85 CFS	1.09	1.08	1.07	1.06	1.05	1.04	1.04	1.03
20.25 CFS	1.02	1.02	1.02	1.02	1.01	1.01	1.01	1.01
20.65 CFS	1.01	1.00	1.00	1.00	1.00	1.00	.99	.99
21.05 CFS	.99	.99	.99	.99	.98	.98	.98	.98
21.45 CFS	.98	.97	.97	.97	.97	.97	.96	.96
21.85 CFS	.96	.96	.96	.96	.95	.95	.95	.95
22.25 CFS	.95	.94	.94	.94	.94	.94	.93	.93
22.65 CFS	.93	.93	.93	.93	.92	.92	.92	.92
23.05 CFS	.92	.91	.91	.91	.91	.91	.90	.90
23.45 CFS	.90	.90	.90	.90	.89	.89	.89	.89
23.85 CFS	.89	.88	.88	.88	.84	.74	.55	.36

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.55 WATERSHED INCHES; 56 CFS-HRS; 4.6 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	16
FLOW(CFS)	4	2	2	1	1	1	1	0

--- XSECTION 1, ALTERNATE 1, STORM 5, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 2

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 10-YR
 STARTING TIME = .00 RAIN DEPTH = 4.78 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =10 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.01 PEAK DISCHARGE(CFS) 57.7 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =10
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .02 SQ.MI.

HRS	9.00 CFS	.48	.50	.52	.54	.55	.56	.58	.59
	9.40 CFS	.60	.61	.62	.63	.65	.66	.69	.71
	9.80 CFS	.74	.76	.79	.82	.86	.89	.92	.96
	10.20 CFS	1.00	1.04	1.09	1.14	1.18	1.23	1.29	1.34
	10.60 CFS	1.40	1.46	1.53	1.61	1.69	1.77	1.86	1.95
	11.00 CFS	2.04	2.14	2.26	2.39	2.56	2.74	2.94	3.15
	11.40 CFS	3.37	3.60	3.83	4.33	5.57	7.71	11.12	15.69
	11.80 CFS	21.67	29.60	41.35	52.62	57.62	54.95	44.91	32.40
	12.20 CFS	22.51	16.75	13.34	11.22	9.74	8.63	7.69	6.91
	12.60 CFS	6.27	5.78	5.42	5.16	4.94	4.76	4.58	4.42
	13.00 CFS	4.26	4.11	3.97	3.84	3.73	3.63	3.54	3.45

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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13.40	CFS	3.36	3.28	3.19	3.11	3.03	2.96	2.89	2.82
13.80	CFS	2.76	2.70	2.63	2.57	2.51	2.45	2.40	2.35
14.20	CFS	2.32	2.29	2.26	2.24	2.22	2.19	2.17	2.15
14.60	CFS	2.13	2.11	2.09	2.07	2.05	2.03	2.00	1.98
15.00	CFS	1.96	1.94	1.92	1.90	1.88	1.85	1.83	1.81
15.40	CFS	1.79	1.77	1.75	1.73	1.70	1.68	1.66	1.64
15.80	CFS	1.62	1.60	1.57	1.55	1.53	1.51	1.49	1.47
16.20	CFS	1.46	1.45	1.44	1.43	1.43	1.42	1.41	1.40
16.60	CFS	1.39	1.39	1.38	1.37	1.36	1.36	1.35	1.34
17.00	CFS	1.33	1.33	1.32	1.31	1.30	1.29	1.29	1.28
17.40	CFS	1.27	1.26	1.26	1.25	1.24	1.23	1.23	1.22
17.80	CFS	1.21	1.20	1.19	1.19	1.18	1.17	1.16	1.16
18.20	CFS	1.15	1.14	1.13	1.12	1.12	1.11	1.10	1.09
18.60	CFS	1.08	1.08	1.07	1.06	1.05	1.05	1.04	1.03
19.00	CFS	1.02	1.01	1.01	1.00	.99	.98	.97	.97
19.40	CFS	.96	.95	.94	.94	.93	.92	.91	.90
19.80	CFS	.90	.89	.88	.87	.86	.86	.85	.84
20.20	CFS	.84	.84	.83	.83	.83	.83	.83	.83
20.60	CFS	.83	.82	.82	.82	.82	.82	.82	.81
21.00	CFS	.81	.81	.81	.81	.81	.81	.80	.80
21.40	CFS	.80	.80	.80	.80	.79	.79	.79	.79
21.80	CFS	.79	.79	.79	.78	.78	.78	.78	.78
22.20	CFS	.78	.77	.77	.77	.77	.77	.77	.77
22.60	CFS	.76	.76	.76	.76	.76	.76	.75	.75
23.00	CFS	.75	.75	.75	.75	.75	.74	.74	.74
23.40	CFS	.74	.74	.74	.73	.73	.73	.73	.73
23.80	CFS	.73	.72	.72	.72	.72	.67	.53	.33

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.97 WATERSHED INCHES; 45 CFS-HRS; 3.7 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	15
FLOW(CFS)	3	2	1	1	1	1	1	0

--- XSECTION 1, ALTERNATE 1, STORM 10, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.03 PEAK DISCHARGE(CFS) 84.6 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =10
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	7.85	8.25	8.65	9.05	9.45	9.85	10.25
CFS	.49	.61	.81	1.05	1.23	1.47	1.93
	.50	.63	.84	1.08	1.25	1.52	2.00
	.52	.65	.87	1.11	1.27	1.57	2.08
	.53	.68	.90	1.14	1.29	1.62	2.16
	.54	.70	.93	1.16	1.31	1.68	2.25
	.55	.73	.96	1.18	1.34	1.73	2.33
	.57	.75	.99	1.20	1.38	1.79	2.42
	.59	.78	1.02	1.22	1.42	1.86	2.51

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10.65	CFS	2.61	2.72	2.85	2.97	3.11	3.25	3.40	3.54
11.05	CFS	3.70	3.88	4.09	4.33	4.61	4.91	5.24	5.58
11.45	CFS	5.95	6.31	7.00	8.33	11.04	15.20	21.43	29.26
11.85	CFS	40.17	54.59	70.72	82.39	84.11	76.19	60.73	45.50
12.25	CFS	34.00	26.35	21.53	18.04	15.56	13.60	12.04	10.74
12.65	CFS	9.70	8.89	8.30	7.85	7.51	7.21	6.94	6.68
13.05	CFS	6.43	6.20	5.99	5.80	5.63	5.48	5.34	5.20
13.45	CFS	5.07	4.94	4.81	4.68	4.56	4.45	4.35	4.25
13.85	CFS	4.15	4.05	3.96	3.87	3.77	3.69	3.61	3.55
14.25	CFS	3.50	3.45	3.41	3.37	3.34	3.30	3.27	3.24
14.65	CFS	3.21	3.17	3.14	3.11	3.08	3.04	3.01	2.98
15.05	CFS	2.95	2.91	2.88	2.85	2.82	2.78	2.75	2.72
15.45	CFS	2.69	2.65	2.62	2.59	2.56	2.52	2.49	2.46
15.85	CFS	2.43	2.39	2.36	2.33	2.29	2.26	2.24	2.21
16.25	CFS	2.20	2.18	2.17	2.15	2.14	2.13	2.12	2.10
16.65	CFS	2.09	2.08	2.07	2.06	2.04	2.03	2.02	2.01
17.05	CFS	2.00	1.99	1.98	1.96	1.95	1.94	1.93	1.92
17.45	CFS	1.91	1.89	1.88	1.87	1.86	1.85	1.84	1.82
17.85	CFS	1.81	1.80	1.79	1.78	1.76	1.75	1.74	1.73
18.25	CFS	1.72	1.71	1.69	1.68	1.67	1.66	1.65	1.63
18.65	CFS	1.62	1.61	1.60	1.59	1.58	1.56	1.55	1.54
19.05	CFS	1.53	1.52	1.50	1.49	1.48	1.47	1.46	1.45
19.45	CFS	1.43	1.42	1.41	1.40	1.39	1.37	1.36	1.35
19.85	CFS	1.34	1.33	1.31	1.30	1.29	1.28	1.27	1.26
20.25	CFS	1.26	1.25	1.25	1.25	1.24	1.24	1.24	1.24
20.65	CFS	1.23	1.23	1.23	1.23	1.22	1.22	1.22	1.22
21.05	CFS	1.22	1.21	1.21	1.21	1.21	1.20	1.20	1.20
21.45	CFS	1.20	1.19	1.19	1.19	1.19	1.18	1.18	1.18
21.85	CFS	1.18	1.18	1.17	1.17	1.17	1.17	1.16	1.16
22.25	CFS	1.16	1.16	1.15	1.15	1.15	1.15	1.15	1.14
22.65	CFS	1.14	1.14	1.14	1.13	1.13	1.13	1.13	1.12
23.05	CFS	1.12	1.12	1.12	1.12	1.11	1.11	1.11	1.11
23.45	CFS	1.10	1.10	1.10	1.10	1.09	1.09	1.09	1.09
23.85	CFS	1.08	1.08	1.08	1.08	1.03	.90	.67	.44

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 3.27 WATERSHED INCHES; 72 CFS-HRS; 5.9 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	16
FLOW(CFS)	5	3	2	2	1	1	1	1

DURATION(HRS) 16
 FLOW(CFS) 0

--- XSECTION 1, ALTERNATE 1, STORM 10, HYDROGRAPH ADDED TO READHD FILE ---

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EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 3

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 25-YR
 STARTING TIME = .00 RAIN DEPTH = 5.99 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =25 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.01 78.5 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =25
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .02 SQ.MI.

HRS	MAIN	TIME	INCREMENT	=	.050	hr,	DRAINAGE	AREA	=	.02	SQ.MI.
8.15	CFS	.49	.51	.53	.55	.57	.59	.61	.64		
8.55	CFS	.66	.68	.71	.73	.76	.78	.81	.84		
8.95	CFS	.86	.89	.92	.95	.97	.99	1.01	1.02		
9.35	CFS	1.04	1.05	1.07	1.08	1.10	1.11	1.14	1.17		
9.75	CFS	1.21	1.25	1.29	1.33	1.38	1.43	1.47	1.52		
10.15	CFS	1.58	1.64	1.70	1.77	1.84	1.91	1.98	2.06		
10.55	CFS	2.13	2.22	2.31	2.42	2.53	2.65	2.76	2.89		
10.95	CFS	3.02	3.15	3.29	3.46	3.66	3.89	4.15	4.44		
11.35	CFS	4.73	5.05	5.36	5.72	6.47	8.20	11.19	15.99		
11.75	CFS	22.29	30.70	41.67	57.17	71.79	78.37	74.55	60.55		
12.15	CFS	43.42	30.17	22.42	17.80	14.89	12.90	11.41	10.15		
12.55	CFS	9.13	8.27	7.62	7.14	6.79	6.50	6.26	6.03		
12.95	CFS	5.82	5.60	5.40	5.21	5.04	4.90	4.77	4.64		
13.35	CFS	4.53	4.41	4.30	4.19	4.08	3.97	3.87	3.78		
13.75	CFS	3.70	3.61	3.53	3.45	3.37	3.29	3.21	3.14		
14.15	CFS	3.08	3.03	2.99	2.96	2.93	2.90	2.87	2.84		
14.55	CFS	2.81	2.79	2.76	2.73	2.70	2.67	2.65	2.62		
14.95	CFS	2.59	2.56	2.53	2.50	2.48	2.45	2.42	2.39		
15.35	CFS	2.37	2.34	2.31	2.28	2.25	2.22	2.19	2.17		
15.75	CFS	2.14	2.11	2.08	2.05	2.02	2.00	1.97	1.94		
16.15	CFS	1.92	1.90	1.89	1.88	1.87	1.86	1.85	1.84		
16.55	CFS	1.83	1.82	1.81	1.80	1.79	1.78	1.77	1.76		
16.95	CFS	1.75	1.74	1.72	1.71	1.71	1.69	1.68	1.67		
17.35	CFS	1.67	1.65	1.64	1.63	1.62	1.61	1.60	1.59		
17.75	CFS	1.58	1.57	1.56	1.55	1.54	1.53	1.52	1.51		
18.15	CFS	1.50	1.49	1.48	1.47	1.46	1.45	1.44	1.43		
18.55	CFS	1.42	1.41	1.40	1.39	1.38	1.37	1.36	1.35		
18.95	CFS	1.34	1.33	1.32	1.31	1.30	1.29	1.28	1.27		
19.35	CFS	1.26	1.25	1.23	1.22	1.21	1.20	1.19	1.18		
19.75	CFS	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10		
20.15	CFS	1.10	1.09	1.09	1.08	1.08	1.08	1.08	1.07		
20.55	CFS	1.07	1.07	1.07	1.07	1.06	1.06	1.06	1.06		
20.95	CFS	1.06	1.05	1.05	1.05	1.05	1.05	1.04	1.04		
21.35	CFS	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03		

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21.75 CFS	1.02	1.02	1.02	1.02	1.02	1.01	1.01	1.01
22.15 CFS	1.01	1.01	1.00	1.00	1.00	1.00	1.00	.99
22.55 CFS	.99	.99	.99	.99	.98	.98	.98	.98
22.95 CFS	.98	.97	.97	.97	.97	.97	.96	.96
23.35 CFS	.96	.96	.96	.95	.95	.95	.95	.95
23.75 CFS	.94	.94	.94	.94	.94	.93	.87	.68
24.15 CFS	.43							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 4.08 WATERSHED INCHES; 62 CFS-HRS; 5.1 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	16
FLOW(CFS)	5	3	2	2	1	1	1	0

--- XSECTION 1, ALTERNATE 1, STORM 25, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.03
 PEAK DISCHARGE(CFS) 112.7
 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =25
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	6.55	6.95	7.35	7.75	8.15	8.55	8.95	9.35	9.75	10.15	10.55	10.95	11.35	11.75	12.15	12.55	12.95	13.35	13.75	14.15	14.55	14.95	15.35	15.75	16.15	16.55	16.95
CFS	.50	.62	.75	.87	1.02	1.29	1.64	1.93	2.17	2.76	3.64	5.01	7.56	30	80.25	15.69	9.00	6.91	5.62	4.67	4.23	3.89	3.55	3.21	2.88	2.72	2.60
	.51	.64	.76	.89	1.04	1.33	1.69	1.95	2.23	2.85	3.77	5.21	8.03	40	60.00	13.98	8.66	6.74	5.49	4.59	4.18	3.85	3.51	3.17	2.85	2.71	2.59
	.53	.65	.78	.91	1.07	1.37	1.73	1.97	2.30	2.95	3.91	5.43	8.53	55	44.75	12.61	8.34	6.56	5.37	4.52	4.14	3.80	3.47	3.13	2.83	2.69	2.57
	.54	.67	.79	.92	1.10	1.42	1.78	1.99	2.36	3.06	4.07	5.67	9.03	74	34.61	11.55	8.04	6.39	5.24	4.46	4.10	3.76	3.42	3.08	2.81	2.68	2.56
	.56	.68	.81	.94	1.14	1.46	1.82	2.01	2.44	3.17	4.24	5.96	9.96	95	28.21	10.78	7.76	6.22	5.12	4.41	4.06	3.72	3.38	3.04	2.79	2.66	2.54
	.57	.70	.83	.96	1.18	1.50	1.85	2.04	2.51	3.28	4.42	6.29	11.81	110	23.59	10.19	7.52	6.06	5.00	4.36	4.01	3.68	3.34	3.00	2.77	2.65	2.53
	.59	.71	.84	.97	1.21	1.55	1.88	2.07	2.59	3.40	4.61	6.68	15.58	112	20.32	9.75	7.30	5.90	4.88	4.31	3.97	3.63	3.30	2.96	2.76	2.63	2.51
	.60	.73	.86	.99	1.25	1.59	1.91	2.12	2.67	3.51	4.80	7.10	21.31	101	17.74	9.36	7.10	5.76	4.77	4.27	3.93	3.59	3.25	2.92	2.74	2.62	2.50

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17.35 CFS	2.48	2.47	2.45	2.44	2.42	2.41	2.39	2.38
17.75 CFS	2.36	2.35	2.33	2.31	2.30	2.28	2.27	2.25
18.15 CFS	2.24	2.22	2.21	2.19	2.18	2.16	2.15	2.13
18.55 CFS	2.12	2.10	2.09	2.07	2.06	2.04	2.03	2.01
18.95 CFS	1.99	1.98	1.96	1.95	1.93	1.92	1.90	1.89
19.35 CFS	1.87	1.86	1.84	1.83	1.81	1.80	1.78	1.76
19.75 CFS	1.75	1.73	1.72	1.70	1.69	1.67	1.66	1.64
20.15 CFS	1.63	1.62	1.61	1.61	1.60	1.60	1.60	1.59
20.55 CFS	1.59	1.59	1.58	1.58	1.58	1.58	1.57	1.57
20.95 CFS	1.57	1.56	1.56	1.56	1.55	1.55	1.55	1.54
21.35 CFS	1.54	1.54	1.54	1.53	1.53	1.53	1.52	1.52
21.75 CFS	1.52	1.52	1.51	1.51	1.51	1.50	1.50	1.50
22.15 CFS	1.49	1.49	1.49	1.48	1.48	1.48	1.48	1.47
22.55 CFS	1.47	1.47	1.46	1.46	1.46	1.45	1.45	1.45
22.95 CFS	1.45	1.44	1.44	1.44	1.43	1.43	1.43	1.42
23.35 CFS	1.42	1.42	1.41	1.41	1.41	1.41	1.40	1.40
23.75 CFS	1.40	1.39	1.39	1.39	1.38	1.38	1.33	1.16
24.15 CFS	.86	.56	.35					

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 4.41 WATERSHED INCHES; 96 CFS-HRS; 8.0 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	16
FLOW(CFS)	7	4	3	2	2	2	1	1

DURATION(HRS) 18
 FLOW(CFS) 0

--- XSECTION 1, ALTERNATE 1, STORM 25, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 4

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 50-YR
 STARTING TIME = .00 RAIN DEPTH = 7.05 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =50 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.00 PEAK DISCHARGE(CFS) 96.7 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =50
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .02 SQ.MI.
 7.15 CFS .49 .51 .52 .53 .54 .56 .57 .58
 7.55 CFS .59 .61 .62 .63 .65 .66 .67 .68

7.95 CFS	.70	.71	.73	.74	.76	.78	.81	.83
8.35 CFS	.86	.89	.92	.95	.98	1.02	1.05	1.08
8.75 CFS	1.12	1.15	1.19	1.22	1.26	1.29	1.33	1.36
9.15 CFS	1.39	1.42	1.44	1.46	1.48	1.49	1.51	1.52
9.55 CFS	1.54	1.57	1.60	1.64	1.68	1.74	1.79	1.85
9.95 CFS	1.91	1.97	2.03	2.10	2.17	2.25	2.33	2.42
10.35 CFS	2.50	2.60	2.69	2.79	2.88	2.99	3.11	3.24
10.75 CFS	3.38	3.54	3.69	3.85	4.01	4.18	4.35	4.57
11.15 CFS	4.82	5.12	5.45	5.81	6.18	6.58	6.97	7.42
11.55 CFS	8.36	10.59	14.47	20.53	28.47	38.69	51.82	71.12
11.95 CFS	89.06	96.62	91.23	74.11	53.16	36.68	27.30	21.67
12.35 CFS	18.11	15.66	13.83	12.30	11.05	10.00	9.22	8.64
12.75 CFS	8.21	7.86	7.57	7.29	7.03	6.77	6.53	6.30
13.15 CFS	6.09	5.91	5.75	5.61	5.47	5.33	5.19	5.05
13.55 CFS	4.92	4.79	4.67	4.56	4.46	4.35	4.26	4.16
13.95 CFS	4.06	3.96	3.87	3.78	3.71	3.65	3.61	3.56
14.35 CFS	3.53	3.49	3.46	3.42	3.39	3.35	3.32	3.29
14.75 CFS	3.25	3.22	3.18	3.15	3.12	3.08	3.05	3.01
15.15 CFS	2.98	2.95	2.91	2.88	2.85	2.81	2.78	2.74
15.55 CFS	2.71	2.67	2.64	2.60	2.57	2.54	2.50	2.47
15.95 CFS	2.43	2.40	2.36	2.33	2.31	2.29	2.27	2.26
16.35 CFS	2.24	2.23	2.22	2.21	2.20	2.18	2.17	2.16
16.75 CFS	2.15	2.13	2.12	2.11	2.10	2.09	2.07	2.06
17.15 CFS	2.05	2.04	2.02	2.01	2.00	1.99	1.97	1.96
17.55 CFS	1.95	1.94	1.93	1.91	1.90	1.89	1.88	1.86
17.95 CFS	1.85	1.84	1.83	1.82	1.80	1.79	1.78	1.77
18.35 CFS	1.75	1.74	1.73	1.72	1.70	1.69	1.68	1.67
18.75 CFS	1.66	1.64	1.63	1.62	1.61	1.59	1.58	1.57
19.15 CFS	1.56	1.54	1.53	1.52	1.51	1.49	1.48	1.47
19.55 CFS	1.46	1.44	1.43	1.42	1.41	1.39	1.38	1.37
19.95 CFS	1.36	1.34	1.33	1.32	1.31	1.31	1.30	1.30
20.35 CFS	1.30	1.29	1.29	1.29	1.29	1.28	1.28	1.28
20.75 CFS	1.28	1.27	1.27	1.27	1.27	1.26	1.26	1.26
21.15 CFS	1.26	1.25	1.25	1.25	1.25	1.25	1.24	1.24
21.55 CFS	1.24	1.24	1.23	1.23	1.23	1.23	1.22	1.22
21.95 CFS	1.22	1.22	1.21	1.21	1.21	1.21	1.20	1.20
22.35 CFS	1.20	1.20	1.19	1.19	1.19	1.19	1.18	1.18
22.75 CFS	1.18	1.18	1.17	1.17	1.17	1.17	1.16	1.16
23.15 CFS	1.16	1.16	1.15	1.15	1.15	1.15	1.14	1.14
23.55 CFS	1.14	1.14	1.13	1.13	1.13	1.13	1.12	1.12
23.95 CFS	1.12	1.11	1.04	.82	.52	.28		

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 5.07 WATERSHED INCHES; 77 CFS-HRS; 6.4 ACRE-FEET.

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
 09/16/** FILENAME: JPPEX1.dat 7/22/05 BY: TLH VERSION 2.04TEST
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DURATION(HRS)	2	4	6	8	10	12	14	16
FLOW(CFS)	6	3	2	2	1	1	1	1
DURATION(HRS)	17							
FLOW(CFS)	0							

--- XSECTION 1, ALTERNATE 1, STORM 50, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
12.03	137.3	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =50
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

5.70 CFS	.50	.52	.53	.55	.57	.59	.60	.62
6.10 CFS	.64	.66	.67	.69	.71	.73	.75	.77
6.50 CFS	.79	.80	.82	.84	.86	.88	.90	.92
6.90 CFS	.94	.96	.98	.99	1.01	1.03	1.05	1.07
7.30 CFS	1.09	1.11	1.13	1.15	1.17	1.19	1.21	1.23
7.70 CFS	1.25	1.27	1.29	1.31	1.33	1.35	1.37	1.40
8.10 CFS	1.42	1.45	1.48	1.52	1.56	1.61	1.66	1.71
8.50 CFS	1.76	1.81	1.86	1.92	1.97	2.03	2.08	2.14
8.90 CFS	2.20	2.26	2.32	2.38	2.43	2.48	2.53	2.56
9.30 CFS	2.59	2.62	2.64	2.67	2.69	2.71	2.74	2.79
9.70 CFS	2.84	2.91	2.98	3.07	3.15	3.25	3.34	3.44
10.10 CFS	3.54	3.65	3.77	3.90	4.03	4.17	4.31	4.46
10.50 CFS	4.60	4.76	4.92	5.10	5.29	5.51	5.74	5.97
10.90 CFS	6.22	6.47	6.72	7.00	7.30	7.66	8.07	8.55
11.30 CFS	9.08	9.65	10.23	10.84	11.46	12.62	14.93	19.62
11.70 CFS	27	37	50	68	91	117	134	136
12.10 CFS	123	97	73	54	42	34	28	24
12.50 CFS	21.34	18.86	16.80	15.15	13.87	12.94	12.23	11.70
12.90 CFS	11.23	10.80	10.39	10.00	9.64	9.30	9.01	8.75
13.30 CFS	8.51	8.29	8.07	7.86	7.66	7.45	7.26	7.07
13.70 CFS	6.90	6.73	6.58	6.42	6.28	6.13	5.98	5.84
14.10 CFS	5.71	5.59	5.49	5.40	5.33	5.27	5.21	5.16
14.50 CFS	5.11	5.05	5.00	4.95	4.90	4.85	4.80	4.75
14.90 CFS	4.70	4.65	4.60	4.55	4.50	4.45	4.40	4.34
15.30 CFS	4.29	4.24	4.19	4.14	4.09	4.04	3.99	3.94
15.70 CFS	3.89	3.84	3.79	3.73	3.68	3.63	3.58	3.53
16.10 CFS	3.48	3.44	3.41	3.38	3.35	3.33	3.31	3.29
16.50 CFS	3.27	3.25	3.24	3.22	3.20	3.18	3.16	3.14
16.90 CFS	3.13	3.11	3.09	3.07	3.05	3.04	3.02	3.00
17.30 CFS	2.98	2.96	2.95	2.93	2.91	2.89	2.87	2.85
17.70 CFS	2.84	2.82	2.80	2.78	2.76	2.75	2.73	2.71
18.10 CFS	2.69	2.67	2.65	2.64	2.62	2.60	2.58	2.56
18.50 CFS	2.54	2.53	2.51	2.49	2.47	2.45	2.44	2.42
18.90 CFS	2.40	2.38	2.36	2.34	2.32	2.31	2.29	2.27

TR20 ----- SCS -
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19.30	CFS	2.25	2.23	2.22	2.20	2.18	2.16	2.14	2.12
19.70	CFS	2.10	2.09	2.07	2.05	2.03	2.01	2.00	1.98
20.10	CFS	1.96	1.95	1.94	1.93	1.92	1.91	1.91	1.90
20.50	CFS	1.90	1.90	1.89	1.89	1.89	1.88	1.88	1.87
20.90	CFS	1.87	1.87	1.86	1.86	1.86	1.85	1.85	1.85
21.30	CFS	1.84	1.84	1.84	1.83	1.83	1.82	1.82	1.82
21.70	CFS	1.81	1.81	1.81	1.80	1.80	1.80	1.79	1.79
22.10	CFS	1.78	1.78	1.78	1.77	1.77	1.77	1.76	1.76
22.50	CFS	1.76	1.75	1.75	1.74	1.74	1.74	1.73	1.73
22.90	CFS	1.73	1.72	1.72	1.72	1.71	1.71	1.70	1.70
23.30	CFS	1.70	1.69	1.69	1.69	1.68	1.68	1.68	1.67
23.70	CFS	1.67							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 5.38 WATERSHED INCHES; 118 CFS-HRS; 9.7 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	16	
FLOW(CFS)	9	5	3	3	2	2	2	2	TRUNCATED

--- XSECTION 1, ALTERNATE 1, STORM 50, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 5

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 100-YR
 STARTING TIME = .00 RAIN DEPTH = 8.26 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =99 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.00 PEAK DISCHARGE(CFS) 117.5 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =99
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .02 SQ.MI.

HRS	6.25	6.65	7.05	7.45	7.85	8.25	8.65	9.05	9.45	9.85	10.25
CFS	.49	.61	.73	.85	.98	1.16	1.47	1.83	2.05	2.40	3.08
	.51	.62	.74	.87	1.00	1.19	1.52	1.88	2.06	2.47	3.19
	.52	.64	.76	.89	1.01	1.23	1.56	1.91	2.09	2.55	3.30
	.53	.65	.78	.90	1.03	1.27	1.60	1.94	2.11	2.62	3.42
	.55	.67	.79	.92	1.05	1.31	1.65	1.97	2.15	2.70	3.53
	.56	.68	.81	.93	1.07	1.35	1.69	1.99	2.20	2.78	3.65
	.58	.70	.82	.95	1.09	1.39	1.74	2.01	2.26	2.87	3.77
	.59	.71	.84	.97	1.12	1.43	1.79	2.03	2.33	2.97	3.91

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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10.65	CFS	4.06	4.23	4.40	4.59	4.78	4.98	5.18	5.39
11.05	CFS	5.62	5.88	6.19	6.56	6.97	7.42	7.88	8.38
11.45	CFS	8.87	9.42	10.60	13.35	18.08	25.61	35.36	48.15
11.85	CFS	64.52	87.31	108.50	117.44	110.94	89.68	64.10	44.41
12.25	CFS	32.89	26.04	21.73	18.78	16.58	14.74	13.24	11.99
12.65	CFS	11.03	10.33	9.82	9.41	9.05	8.72	8.41	8.10
13.05	CFS	7.80	7.52	7.28	7.07	6.88	6.70	6.53	6.36
13.45	CFS	6.20	6.03	5.88	5.72	5.58	5.44	5.32	5.20
13.85	CFS	5.08	4.96	4.84	4.73	4.62	4.51	4.43	4.36
14.25	CFS	4.30	4.25	4.21	4.16	4.12	4.08	4.04	4.00
14.65	CFS	3.96	3.92	3.88	3.84	3.80	3.76	3.72	3.68
15.05	CFS	3.63	3.59	3.55	3.51	3.47	3.43	3.39	3.35
15.45	CFS	3.31	3.27	3.23	3.19	3.14	3.10	3.06	3.02
15.85	CFS	2.98	2.94	2.90	2.86	2.82	2.78	2.75	2.73
16.25	CFS	2.71	2.69	2.67	2.66	2.64	2.63	2.61	2.60
16.65	CFS	2.58	2.57	2.56	2.54	2.53	2.51	2.50	2.48
17.05	CFS	2.47	2.45	2.44	2.42	2.41	2.39	2.38	2.37
17.45	CFS	2.35	2.34	2.32	2.31	2.29	2.28	2.26	2.25
17.85	CFS	2.23	2.22	2.20	2.19	2.17	2.16	2.15	2.13
18.25	CFS	2.12	2.10	2.09	2.07	2.06	2.04	2.03	2.01
18.65	CFS	2.00	1.98	1.97	1.95	1.94	1.92	1.91	1.89
19.05	CFS	1.88	1.86	1.85	1.84	1.82	1.81	1.79	1.78
19.45	CFS	1.76	1.75	1.73	1.72	1.70	1.69	1.67	1.66
19.85	CFS	1.64	1.63	1.61	1.60	1.58	1.57	1.56	1.55
20.25	CFS	1.55	1.54	1.54	1.54	1.53	1.53	1.53	1.53
20.65	CFS	1.52	1.52	1.52	1.51	1.51	1.51	1.51	1.50
21.05	CFS	1.50	1.50	1.49	1.49	1.49	1.48	1.48	1.48
21.45	CFS	1.48	1.47	1.47	1.47	1.46	1.46	1.46	1.46
21.85	CFS	1.45	1.45	1.45	1.44	1.44	1.44	1.44	1.43
22.25	CFS	1.43	1.43	1.42	1.42	1.42	1.41	1.41	1.41
22.65	CFS	1.41	1.40	1.40	1.40	1.39	1.39	1.39	1.39
23.05	CFS	1.38	1.38	1.38	1.37	1.37	1.37	1.37	1.36
23.45	CFS	1.36	1.36	1.35	1.35	1.35	1.34	1.34	1.34
23.85	CFS	1.34	1.33	1.33	1.32				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 6.21 WATERSHED INCHES; 94 CFS-HRS; 7.8 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	12	
FLOW(CFS)	7	4	3	2	2	2	1 TRUNCATED	

--- XSECTION 1, ALTERNATE 1, STORM 99, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	12.03	PEAK DISCHARGE(CFS)	165.2	PEAK ELEVATION(FEET)	(RUNOFF)
----------------	-------	---------------------	-------	------------------------	----------

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =99
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	CFS	.50	.52	.54	.56	.58	.60	.62	.64
4.95	CFS	.50	.52	.54	.56	.58	.60	.62	.64
5.35	CFS	.66	.68	.70	.72	.74	.76	.79	.81
5.75	CFS	.83	.85	.87	.89	.92	.94	.96	.98
6.15	CFS	1.01	1.03	1.05	1.07	1.10	1.12	1.14	1.17
6.55	CFS	1.19	1.21	1.24	1.26	1.28	1.31	1.33	1.35
6.95	CFS	1.38	1.40	1.42	1.45	1.47	1.50	1.52	1.54
7.35	CFS	1.57	1.59	1.62	1.64	1.67	1.69	1.71	1.74
7.75	CFS	1.76	1.79	1.81	1.84	1.86	1.89	1.91	1.94
8.15	CFS	1.98	2.02	2.07	2.12	2.18	2.24	2.31	2.37
8.55	CFS	2.44	2.51	2.57	2.64	2.71	2.78	2.86	2.93
8.95	CFS	3.00	3.08	3.15	3.22	3.28	3.33	3.38	3.41
9.35	CFS	3.44	3.47	3.50	3.52	3.55	3.58	3.63	3.70
9.75	CFS	3.78	3.88	3.98	4.09	4.20	4.32	4.44	4.57
10.15	CFS	4.70	4.85	5.01	5.17	5.35	5.52	5.70	5.88
10.55	CFS	6.07	6.27	6.49	6.73	7.00	7.27	7.57	7.87
10.95	CFS	8.17	8.48	8.82	9.18	9.62	10.13	10.73	11.37
11.35	CFS	12.06	12.77	13.52	14.27	15.69	18.52	24.27	32.99
11.75	CFS	46	62	83	111	141	162	164	147
12.15	CFS	117	87	65	50	41	34	29	25
12.55	CFS	22.46	20.00	18.02	16.49	15.39	14.54	13.91	13.35
12.95	CFS	12.83	12.35	11.88	11.45	11.06	10.70	10.39	10.11
13.35	CFS	9.84	9.59	9.34	9.09	8.85	8.62	8.39	8.19
13.75	CFS	7.99	7.81	7.62	7.45	7.27	7.10	6.93	6.77
14.15	CFS	6.63	6.51	6.41	6.33	6.25	6.19	6.12	6.06
14.55	CFS	6.00	5.93	5.87	5.81	5.75	5.69	5.63	5.57
14.95	CFS	5.51	5.45	5.39	5.33	5.27	5.21	5.15	5.09
15.35	CFS	5.03	4.97	4.91	4.85	4.79	4.73	4.67	4.61
15.75	CFS	4.55	4.49	4.43	4.37	4.31	4.25	4.19	4.13
16.15	CFS	4.08	4.04	4.00	3.97	3.95	3.92	3.90	3.88
16.55	CFS	3.85	3.83	3.81	3.79	3.77	3.75	3.72	3.70
16.95	CFS	3.68	3.66	3.64	3.62	3.60	3.57	3.55	3.53
17.35	CFS	3.51	3.49	3.47	3.44	3.42	3.40	3.38	3.36
17.75	CFS	3.34	3.32	3.29	3.27	3.25	3.23	3.21	3.19
18.15	CFS	3.16	3.14	3.12	3.10	3.08	3.06	3.03	3.01
18.55	CFS	2.99	2.97	2.95	2.93	2.90	2.88	2.86	2.84
18.95	CFS	2.82	2.80	2.77	2.75	2.73	2.71	2.69	2.66
19.35	CFS	2.64	2.62	2.60	2.58	2.56	2.54	2.51	2.49
19.75	CFS	2.47	2.45	2.43	2.40	2.38	2.36	2.34	2.32
20.15	CFS	2.30	2.29	2.28	2.27	2.26	2.26	2.25	2.25
20.55	CFS	2.24	2.24	2.24	2.23	2.23	2.22	2.22	2.21
20.95	CFS	2.21	2.21	2.20	2.20	2.19	2.19	2.18	2.18
21.35	CFS	2.18	2.17	2.17	2.16	2.16	2.15	2.15	2.14
21.75	CFS	2.14	2.14	2.13	2.13	2.12	2.12	2.11	2.11
22.15	CFS	2.11	2.10	2.10	2.09	2.09	2.09	2.08	2.08
22.55	CFS	2.07	2.07	2.06	2.06	2.05	2.05	2.05	2.04
22.95	CFS	2.04	2.03	2.03	2.02	2.02	2.02		

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS VERSION
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RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 6.50 WATERSHED INCHES; 142 CFS-HRS; 11.8 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	11
FLOW(CFS)	10	6	4	3	3	2 TRUNCATED

--- XSECTION 1, ALTERNATE 1, STORM 99, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 6

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
 A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
 F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

XSECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	ELEVATION (FT)	PEAK DISCHARGE		
					TIME (HR)	RATE (CFS)	RATE (CSM)
RAINFALL OF 3.11 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
RAINTABLE NUMBER 2, ARC 2							
MAIN TIME INCREMENT .050 HOURS							
ALTERNATE 1 STORM 2							
XSECTION	1	RUNOFF	.02	1.54	---	12.02	30 1500.0
XSECTION	1	RUNOFF	.03	1.76	---	12.04	46 1533.3
RAINFALL OF 4.00 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
ALTERNATE 1 STORM 5							
XSECTION	1	RUNOFF	.02	2.28	---	12.01	45 2250.0
XSECTION	1	RUNOFF	.03	2.55	---	12.04	67 2233.3
RAINFALL OF 4.78 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
ALTERNATE 1 STORM 10							
XSECTION	1	RUNOFF	.02	2.97	---	12.01	58 2900.0
XSECTION	1	RUNOFF	.03	3.27	---	12.03	85 2833.3
RAINFALL OF 5.99 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
ALTERNATE 1 STORM 25							
XSECTION	1	RUNOFF	.02	4.08	---	12.01	78 3900.0
XSECTION	1	RUNOFF	.03	4.41	---	12.03	113 3766.7
RAINFALL OF 7.05 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
ALTERNATE 1 STORM 50							
XSECTION	1	RUNOFF	.02	5.07	---	12.00	97 4850.0

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
 A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
 F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

XSECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE			
				ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
ALTERNATE 1 STORM 50 -----							
XSECTION 1	RUNOFF	.03	5.38	---	12.03	137	4566.7
RAINFALL OF 8.26 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
ALTERNATE 1 STORM 99 -----							
XSECTION 1	RUNOFF	.02	6.21	---	12.00	117	5850.0
XSECTION 1	RUNOFF	.03	6.50	---	12.03	165	5500.0

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
 QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS.....				
		2	5	10	25	50
XSECTION 1	.03					
-----	-----					
ALTERNATE 1		46	67	85	113	137

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
 QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS.....
		99
XSECTION 1	.03	
-----	-----	
ALTERNATE 1		165

SUMMARY TABLE #3 / 3A DATA REORDERED IN DESCENDING ORDER FOR ECON2.

ECON2 DATA FILE

ECON2
TITLE JONES POINT PARK EXISTING CONDITIONS
TITLE FILENAME: JPPEX1.dat 7/22/05 BY: TLH
FLOW-FREQ 1 165. 137. 113. 85. 67.ALT 1 1
FLOW-FREQ 1 46. ALT 1 2

TR20 ----- SCS -
09/16/** JONES POINT PARK EXISTING CONDITIONS VERSION
FILENAME: JPPEX1.dat 7/22/05 BY: TLH 2.04TEST

END OF 1 JOBS IN THIS RUN

SCS TR-20, VERSION 2.04TEST
FILES

INPUT = C:\JPPEX1.DAT , GIVEN DATA FILE
OUTPUT = C:\JPPEX1.OUT , DATED 09/16/**,15:39:30

FILES GENERATED - DATED 09/16/**,15:39:30

FILE C:\JPPEX1.TEC CONTAINS ECON2 INFORMATION

FILE C:\JPPEX1.TRD CONTAINS READHD INFORMATION

FILE C:\JPPEX1.TMG CONTAINS MESSAGE + WARNING INFORMATION

TOTAL NUMBER OF WARNINGS = 1, MESSAGES = 0

JOB ENDED AT 15:39:30
*** TR-20 RUN COMPLETED ***

*****80-80 LIST OF INPUT DATA FOR TR-20 HYDROLOGY*****

JOB	TR-20	ECON	SUMMARY	NOPLOTS
TITLE	004	JONES POINT PARK PROPOSED CONDITIONS		
TITLE	000	FILENAME: JPPPR2.dat	7/22/05	BY: TLH
6	RUNOFF	1 001	6 0.0258	84.1 0.20
6	RUNOFF	1 001	6 0.0339	86.2 0.25
ENDATA				
7	INCREM	6	0.05	
7	COMPUT	7 001 001	0.00	3.11 1.00
ENDCMP 1				
7	COMPUT	7 001 001	0.00	4.00 1.00
ENDCMP 1				
7	COMPUT	7 001 001	0.00	4.78 1.00
ENDCMP 1				
7	COMPUT	7 001 001	0.00	5.99 1.00
ENDCMP 1				
7	COMPUT	7 001 001	0.00	7.05 1.00
ENDCMP 1				
7	COMPUT	7 001 001	0.00	8.26 1.00
ENDCMP 1				
ENDJOB 2				

*****END OF 80-80 LIST*****

TR20 ----- SCS -
 JONES POINT PARK PROPOSED CONDITIONS VERSION
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EXECUTIVE CONTROL INCREM MAIN TIME INCREMENT = .050 HOURS

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 2-YR
 STARTING TIME = .00 RAIN DEPTH = 3.11 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. = 2 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.01 34.8 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 2
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	CFS	.49	.52	.54	.57	.61	.64	.68	.73
10.45	CFS	.49	.52	.54	.57	.61	.64	.68	.73
10.85	CFS	.77	.82	.86	.91	.97	1.03	1.10	1.19
11.25	CFS	1.28	1.39	1.51	1.63	1.75	1.89	2.17	2.80
11.65	CFS	3.91	5.80	8.37	11.87	16.70	23.81	30.87	34.58
12.05	CFS	33.53	27.51	19.88	13.89	10.42	8.35	7.05	6.14
12.45	CFS	5.47	4.88	4.40	3.99	3.68	3.46	3.29	3.16
12.85	CFS	3.05	2.94	2.83	2.73	2.64	2.55	2.47	2.40
13.25	CFS	2.34	2.28	2.22	2.17	2.11	2.06	2.01	1.96
13.65	CFS	1.91	1.86	1.82	1.78	1.74	1.70	1.66	1.62
14.05	CFS	1.59	1.55	1.52	1.50	1.48	1.47	1.45	1.44
14.45	CFS	1.42	1.41	1.40	1.38	1.37	1.36	1.34	1.33
14.85	CFS	1.32	1.30	1.29	1.28	1.26	1.25	1.24	1.22
15.25	CFS	1.21	1.19	1.18	1.17	1.15	1.14	1.13	1.11
15.65	CFS	1.10	1.08	1.07	1.06	1.04	1.03	1.01	1.00
16.05	CFS	.99	.97	.96	.95	.95	.94	.94	.93
16.45	CFS	.93	.92	.92	.91	.91	.90	.90	.89
16.85	CFS	.89	.88	.88	.87	.87	.86	.86	.85
17.25	CFS	.85	.84	.84	.83	.83	.82	.82	.81
17.65	CFS	.81	.80	.80	.79	.79	.78	.78	.77
18.05	CFS	.77	.76	.76	.75	.75	.74	.74	.73
18.45	CFS	.73	.72	.72	.71	.71	.70	.70	.69
18.85	CFS	.69	.68	.68	.67	.67	.66	.66	.65
19.25	CFS	.65	.64	.64	.63	.63	.62	.62	.61
19.65	CFS	.61	.60	.60	.59	.58	.58	.57	.57
20.05	CFS	.56	.56	.56	.55	.55	.55	.55	.55
20.45	CFS	.55	.55	.55	.54	.54	.54	.54	.54
20.85	CFS	.54	.54	.54	.54	.54	.53	.53	.53
21.25	CFS	.53	.53	.53	.53	.53	.53	.53	.52
21.65	CFS	.52	.52	.52	.52	.52	.52	.52	.52
22.05	CFS	.52	.51	.51	.51	.51	.51	.51	.51
22.45	CFS	.51	.51	.51	.51	.50	.50	.50	.50
22.85	CFS	.50							

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 1.61 WATERSHED INCHES; 27 CFS-HRS; 2.2 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	12
FLOW(CFS)	2	1	1	1	1	1	0

--- XSECTION 1, ALTERNATE 1, STORM 2, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
12.04	46.5	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 2
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	MAIN	TIME	INCREMENT	=	.050	hr,	DRAINAGE	AREA	=	.03	SQ.MI.
9.85	CFS	.50	.52	.54	.57	.59	.62	.65	.68		
10.25	CFS	.71	.74	.78	.82	.86	.90	.94	.98		
10.65	CFS	1.03	1.09	1.14	1.21	1.27	1.34	1.41	1.48		
11.05	CFS	1.56	1.65	1.75	1.87	2.01	2.16	2.32	2.50		
11.45	CFS	2.68	2.87	3.21	3.87	5.21	7.28	10.47	14.57		
11.85	CFS	20.50	28.55	37.81	44.78	46.34	42.40	34.02	25.63		
12.25	CFS	19.25	15.01	12.32	10.38	8.99	7.89	7.00	6.26		
12.65	CFS	5.66	5.20	4.86	4.60	4.41	4.24	4.08	3.93		
13.05	CFS	3.78	3.65	3.53	3.42	3.32	3.23	3.15	3.07		
13.45	CFS	2.99	2.92	2.84	2.77	2.70	2.64	2.57	2.52		
13.85	CFS	2.46	2.40	2.35	2.29	2.24	2.19	2.15	2.11		
14.25	CFS	2.08	2.05	2.03	2.01	1.99	1.97	1.95	1.93		
14.65	CFS	1.91	1.89	1.87	1.85	1.83	1.81	1.80	1.78		
15.05	CFS	1.76	1.74	1.72	1.70	1.68	1.66	1.64	1.63		
15.45	CFS	1.61	1.59	1.57	1.55	1.53	1.51	1.49	1.47		
15.85	CFS	1.45	1.43	1.41	1.39	1.37	1.36	1.34	1.33		
16.25	CFS	1.32	1.31	1.30	1.29	1.28	1.28	1.27	1.26		
16.65	CFS	1.25	1.25	1.24	1.23	1.23	1.22	1.21	1.21		
17.05	CFS	1.20	1.19	1.19	1.18	1.17	1.17	1.16	1.15		
17.45	CFS	1.14	1.14	1.13	1.12	1.12	1.11	1.10	1.10		
17.85	CFS	1.09	1.08	1.08	1.07	1.06	1.05	1.05	1.04		
18.25	CFS	1.03	1.03	1.02	1.01	1.01	1.00	.99	.98		
18.65	CFS	.98	.97	.96	.96	.95	.94	.94	.93		
19.05	CFS	.92	.91	.91	.90	.89	.89	.88	.87		
19.45	CFS	.86	.86	.85	.84	.84	.83	.82	.81		
19.85	CFS	.81	.80	.79	.79	.78	.77	.77	.76		
20.25	CFS	.76	.76	.75	.75	.75	.75	.75	.75		
20.65	CFS	.75	.74	.74	.74	.74	.74	.74	.74		
21.05	CFS	.73	.73	.73	.73	.73	.73	.73	.73		
21.45	CFS	.72	.72	.72	.72	.72	.72	.72	.71		
21.85	CFS	.71	.71	.71	.71	.71	.71	.71	.70		
22.25	CFS	.70	.70	.70	.70	.70	.70	.69	.69		
22.65	CFS	.69	.69	.69	.69	.69	.68	.68	.68		
23.05	CFS	.68	.68	.68	.68	.67	.67	.67	.67		

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23.45 CFS	.67	.67	.67	.67	.66	.66	.66	.66
23.85 CFS	.66	.66	.66	.65	.63	.55	.41	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 1.77 WATERSHED INCHES; 39 CFS-HRS; 3.2 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	14
FLOW(CFS)	3	2	1	1	1	1	1	0

--- XSECTION 1, ALTERNATE 1, STORM 2, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 1

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 5-YR
 STARTING TIME = .00 RAIN DEPTH = 4.00 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. = 5 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
12.01	50.8	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 5
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	9.60 CFS	.50	.51	.53	.55	.57	.60	.62	.65
	10.00 CFS	.67	.70	.73	.76	.80	.83	.87	.91
	10.40 CFS	.95	.99	1.04	1.08	1.13	1.19	1.25	1.31
	10.80 CFS	1.38	1.45	1.53	1.60	1.68	1.77	1.87	1.98
	11.20 CFS	2.12	2.28	2.45	2.63	2.82	3.02	3.22	3.65
	11.60 CFS	4.71	6.55	9.48	13.44	18.67	25.65	36.06	46.12
	12.00 CFS	50.71	48.52	39.74	28.72	19.98	14.89	11.87	10.00
	12.40 CFS	8.69	7.70	6.87	6.18	5.61	5.17	4.85	4.62
	12.80 CFS	4.42	4.26	4.10	3.96	3.82	3.68	3.55	3.44
	13.20 CFS	3.34	3.25	3.17	3.09	3.02	2.94	2.86	2.79
	13.60 CFS	2.72	2.65	2.59	2.53	2.47	2.42	2.36	2.31
	14.00 CFS	2.25	2.20	2.15	2.11	2.08	2.05	2.03	2.01
	14.40 CFS	1.99	1.97	1.95	1.93	1.91	1.90	1.88	1.86
	14.80 CFS	1.84	1.82	1.80	1.78	1.76	1.74	1.72	1.71
	15.20 CFS	1.69	1.67	1.65	1.63	1.61	1.59	1.57	1.55
	15.60 CFS	1.53	1.51	1.49	1.47	1.45	1.43	1.42	1.40
	16.00 CFS	1.38	1.36	1.34	1.33	1.31	1.30	1.30	1.29
	16.40 CFS	1.28	1.28	1.27	1.26	1.25	1.25	1.24	1.23
	16.80 CFS	1.23	1.22	1.21	1.21	1.20	1.19	1.19	1.18
	17.20 CFS	1.17	1.17	1.16	1.15	1.14	1.14	1.13	1.12
	17.60 CFS	1.12	1.11	1.10	1.10	1.09	1.08	1.08	1.07

TR20 ----- SCS -
 JONES POINT PARK PROPOSED CONDITIONS
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18.00	CFS	1.06	1.05	1.05	1.04	1.03	1.03	1.02	1.01
18.40	CFS	1.01	1.00	.99	.98	.98	.97	.96	.96
18.80	CFS	.95	.94	.93	.93	.92	.91	.91	.90
19.20	CFS	.89	.89	.88	.87	.86	.86	.85	.84
19.60	CFS	.84	.83	.82	.81	.81	.80	.79	.79
20.00	CFS	.78	.77	.77	.76	.76	.75	.75	.75
20.40	CFS	.75	.75	.75	.75	.74	.74	.74	.74
20.80	CFS	.74	.74	.74	.73	.73	.73	.73	.73
21.20	CFS	.73	.73	.72	.72	.72	.72	.72	.72
21.60	CFS	.72	.72	.71	.71	.71	.71	.71	.71
22.00	CFS	.71	.70	.70	.70	.70	.70	.70	.70
22.40	CFS	.69	.69	.69	.69	.69	.69	.69	.69
22.80	CFS	.68	.68	.68	.68	.68	.68	.68	.67
23.20	CFS	.67	.67	.67	.67	.67	.67	.66	.66
23.60	CFS	.66	.66	.66	.66	.66	.65	.65	.65
24.00	CFS	.65	.61	.48					

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.38 WATERSHED INCHES; 40 CFS-HRS; 3.3 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	14
FLOW(CFS)	3	2	1	1	1	1	1	0

--- XSECTION 1, ALTERNATE 1, STORM 5, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.04 PEAK DISCHARGE(CFS) 66.8 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 5
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	8.65	9.05	9.45	9.85	10.25	10.65	11.05	11.45	11.85	12.25	12.65	13.05	13.45	13.85	14.25	14.65	15.05	15.45
CFS	.50	.67	.81	.99	1.34	1.85	2.67	4.38	30.91	27.13	7.82	5.20	4.11	3.36	2.84	2.60	2.40	2.19
	.52	.69	.83	1.03	1.39	1.93	2.81	4.67	42.36	21.07	7.17	5.02	4.00	3.29	2.80	2.58	2.37	2.16
	.54	.72	.84	1.07	1.45	2.02	2.97	5.19	55.30	17.25	6.70	4.85	3.90	3.21	2.77	2.55	2.34	2.13
	.56	.74	.86	1.11	1.51	2.12	3.15	6.20	64.80	14.47	6.34	4.69	3.79	3.14	2.74	2.53	2.32	2.11
	.58	.75	.88	1.15	1.57	2.22	3.36	8.27	66.47	12.50	6.07	4.56	3.70	3.06	2.71	2.50	2.29	2.08
	.60	.77	.90	1.19	1.63	2.33	3.59	11.44	60.43	10.95	5.83	4.44	3.61	2.99	2.68	2.47	2.26	2.05
	.62	.78	.93	1.23	1.70	2.44	3.84	16.24	48.28	9.70	5.61	4.32	3.52	2.93	2.66	2.45	2.24	2.03
	.65	.80	.96	1.28	1.77	2.55	4.11	22.32	36.25	8.66	5.40	4.21	3.44	2.88	2.63	2.42	2.21	2.00

TR20 ----- SCS -
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15.85	CFS	1.97	1.95	1.92	1.89	1.87	1.84	1.82	1.80
16.25	CFS	1.79	1.77	1.76	1.75	1.74	1.73	1.72	1.71
16.65	CFS	1.70	1.69	1.68	1.68	1.67	1.66	1.65	1.64
17.05	CFS	1.63	1.62	1.61	1.60	1.59	1.58	1.57	1.56
17.45	CFS	1.55	1.54	1.53	1.52	1.51	1.51	1.50	1.49
17.85	CFS	1.48	1.47	1.46	1.45	1.44	1.43	1.42	1.41
18.25	CFS	1.40	1.39	1.38	1.37	1.36	1.35	1.34	1.33
18.65	CFS	1.32	1.31	1.30	1.30	1.29	1.28	1.27	1.26
19.05	CFS	1.25	1.24	1.23	1.22	1.21	1.20	1.19	1.18
19.45	CFS	1.17	1.16	1.15	1.14	1.13	1.12	1.11	1.10
19.85	CFS	1.09	1.08	1.07	1.06	1.05	1.04	1.04	1.03
20.25	CFS	1.03	1.02	1.02	1.02	1.02	1.01	1.01	1.01
20.65	CFS	1.01	1.01	1.00	1.00	1.00	1.00	1.00	.99
21.05	CFS	.99	.99	.99	.99	.98	.98	.98	.98
21.45	CFS	.98	.98	.97	.97	.97	.97	.97	.96
21.85	CFS	.96	.96	.96	.96	.95	.95	.95	.95
22.25	CFS	.95	.95	.94	.94	.94	.94	.94	.93
22.65	CFS	.93	.93	.93	.93	.92	.92	.92	.92
23.05	CFS	.92	.92	.91	.91	.91	.91	.91	.90
23.45	CFS	.90	.90	.90	.90	.89	.89	.89	.89
23.85	CFS	.89	.88	.88	.88	.85	.74	.55	.36

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.56 WATERSHED INCHES; 56 CFS-HRS; 4.6 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	16
FLOW(CFS)	4	2	2	1	1	1	1	0

--- XSECTION 1, ALTERNATE 1, STORM 5, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 2

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 10-YR
 STARTING TIME = .00 RAIN DEPTH = 4.78 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =10 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.01 PEAK DISCHARGE(CFS) 65.4 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =10
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.
 8.70 CFS .50 .51 .53 .56 .58 .60 .62 .64
 9.10 CFS .66 .68 .70 .71 .73 .74 .75 .76

9.50 CFS	.78	.79	.80	.82	.85	.88	.91	.94
9.90 CFS	.98	1.01	1.05	1.09	1.13	1.17	1.22	1.27
10.30 CFS	1.32	1.38	1.43	1.49	1.55	1.61	1.68	1.76
10.70 CFS	1.84	1.93	2.02	2.12	2.22	2.32	2.43	2.54
11.10 CFS	2.68	2.83	3.03	3.24	3.47	3.71	3.96	4.22
11.50 CFS	4.49	5.06	6.50	8.98	12.90	18.13	24.96	33.93
11.90 CFS	47.16	59.80	65.29	62.11	50.67	36.52	25.35	18.84
12.30 CFS	14.98	12.60	10.93	9.67	8.61	7.74	7.02	6.47
12.70 CFS	6.06	5.77	5.53	5.32	5.13	4.95	4.77	4.60
13.10 CFS	4.44	4.30	4.17	4.06	3.96	3.86	3.76	3.67
13.50 CFS	3.57	3.48	3.39	3.30	3.22	3.15	3.08	3.01
13.90 CFS	2.94	2.87	2.80	2.74	2.68	2.63	2.59	2.55
14.30 CFS	2.53	2.50	2.47	2.45	2.43	2.40	2.38	2.35
14.70 CFS	2.33	2.31	2.28	2.26	2.24	2.21	2.19	2.16
15.10 CFS	2.14	2.12	2.09	2.07	2.04	2.02	2.00	1.97
15.50 CFS	1.95	1.93	1.90	1.88	1.85	1.83	1.80	1.78
15.90 CFS	1.75	1.73	1.71	1.68	1.66	1.64	1.63	1.62
16.30 CFS	1.61	1.60	1.59	1.58	1.57	1.56	1.55	1.55
16.70 CFS	1.54	1.53	1.52	1.51	1.50	1.49	1.49	1.48
17.10 CFS	1.47	1.46	1.45	1.44	1.43	1.43	1.42	1.41
17.50 CFS	1.40	1.39	1.38	1.37	1.36	1.36	1.35	1.34
17.90 CFS	1.33	1.32	1.31	1.30	1.30	1.29	1.28	1.27
18.30 CFS	1.26	1.25	1.24	1.23	1.23	1.22	1.21	1.20
18.70 CFS	1.19	1.18	1.17	1.16	1.16	1.15	1.14	1.13
19.10 CFS	1.12	1.11	1.10	1.09	1.08	1.08	1.07	1.06
19.50 CFS	1.05	1.04	1.03	1.02	1.01	1.01	1.00	.99
19.90 CFS	.98	.97	.96	.95	.95	.94	.94	.93
20.30 CFS	.93	.93	.93	.92	.92	.92	.92	.92
20.70 CFS	.91	.91	.91	.91	.91	.91	.90	.90
21.10 CFS	.90	.90	.90	.90	.89	.89	.89	.89
21.50 CFS	.89	.89	.88	.88	.88	.88	.88	.88
21.90 CFS	.87	.87	.87	.87	.87	.87	.86	.86
22.30 CFS	.86	.86	.86	.85	.85	.85	.85	.85
22.70 CFS	.85	.84	.84	.84	.84	.84	.84	.83
23.10 CFS	.83	.83	.83	.83	.83	.82	.82	.82
23.50 CFS	.82	.82	.82	.81	.81	.81	.81	.81
23.90 CFS	.80	.80	.80	.75	.59	.37		

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 3.08 WATERSHED INCHES; 51 CFS-HRS; 4.2 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	15
FLOW(CFS)	4	2	2	1	1	1	1	0

--- XSECTION 1, ALTERNATE 1, STORM 10, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.03 PEAK DISCHARGE(CFS) 84.8 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =10
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	CFS	CFS	CFS	CFS	CFS	CFS	CFS	CFS	CFS
7.80	.49	.50	.51	.52	.54	.55	.56	.58	
8.20	.60	.62	.64	.66	.69	.71	.74	.76	
8.60	.79	.82	.85	.88	.91	.94	.97	1.00	
9.00	1.03	1.06	1.10	1.12	1.15	1.17	1.19	1.21	
9.40	1.23	1.25	1.26	1.28	1.30	1.32	1.36	1.39	
9.80	1.44	1.48	1.53	1.58	1.64	1.69	1.75	1.81	
10.20	1.88	1.95	2.02	2.10	2.18	2.26	2.35	2.44	
10.60	2.53	2.63	2.74	2.87	3.00	3.13	3.27	3.42	
11.00	3.57	3.73	3.90	4.11	4.35	4.64	4.94	5.27	
11.40	5.62	5.98	6.35	7.03	8.37	11.10	15.27	21.53	
11.80	29.38	40.32	54.77	70.93	82.61	84.32	76.38	60.87	
12.20	45.60	34.07	26.41	21.57	18.07	15.59	13.63	12.06	
12.60	10.76	9.71	8.90	8.31	7.86	7.52	7.22	6.95	
13.00	6.69	6.44	6.21	6.00	5.81	5.64	5.49	5.35	
13.40	5.21	5.08	4.94	4.81	4.69	4.57	4.46	4.35	
13.80	4.25	4.15	4.06	3.96	3.87	3.78	3.69	3.62	
14.20	3.55	3.50	3.45	3.42	3.38	3.34	3.31	3.28	
14.60	3.24	3.21	3.18	3.15	3.11	3.08	3.05	3.02	
15.00	2.98	2.95	2.92	2.89	2.85	2.82	2.79	2.76	
15.40	2.72	2.69	2.66	2.63	2.59	2.56	2.53	2.49	
15.80	2.46	2.43	2.40	2.36	2.33	2.30	2.27	2.24	
16.20	2.22	2.20	2.18	2.17	2.15	2.14	2.13	2.12	
16.60	2.11	2.09	2.08	2.07	2.06	2.05	2.04	2.02	
17.00	2.01	2.00	1.99	1.98	1.97	1.95	1.94	1.93	
17.40	1.92	1.91	1.90	1.88	1.87	1.86	1.85	1.84	
17.80	1.83	1.81	1.80	1.79	1.78	1.77	1.75	1.74	
18.20	1.73	1.72	1.71	1.70	1.68	1.67	1.66	1.65	
18.60	1.64	1.62	1.61	1.60	1.59	1.58	1.57	1.55	
19.00	1.54	1.53	1.52	1.51	1.49	1.48	1.47	1.46	
19.40	1.45	1.43	1.42	1.41	1.40	1.39	1.37	1.36	
19.80	1.35	1.34	1.33	1.32	1.30	1.29	1.28	1.27	
20.20	1.26	1.26	1.25	1.25	1.25	1.24	1.24	1.24	
20.60	1.24	1.23	1.23	1.23	1.23	1.23	1.22	1.22	
21.00	1.22	1.22	1.21	1.21	1.21	1.21	1.20	1.20	
21.40	1.20	1.20	1.20	1.19	1.19	1.19	1.19	1.18	
21.80	1.18	1.18	1.18	1.17	1.17	1.17	1.17	1.17	
22.20	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.15	
22.60	1.14	1.14	1.14	1.14	1.14	1.13	1.13	1.13	
23.00	1.13	1.12	1.12	1.12	1.12	1.11	1.11	1.11	
23.40	1.11	1.10	1.10	1.10	1.10	1.09	1.09	1.09	
23.80	1.09	1.09	1.08	1.08	1.08	1.04	.90	.67	
24.20	.44								

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 3.28 WATERSHED INCHES; 72 CFS-HRS; 5.9 ACRE-FEET.

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DURATION(HRS)	2	4	6	8	10	12	14	16
FLOW(CFS)	5	3	2	2	1	1	1	1
DURATION(HRS)	16							
FLOW(CFS)	0							

--- XSECTION 1, ALTERNATE 1, STORM 10, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 3

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 25-YR
 STARTING TIME = .00 RAIN DEPTH = 5.99 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =25 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
12.00	88.2	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =25								
HRS	MAIN TIME INCREMENT = .050 hr,				DRAINAGE AREA = .03 SQ.MI.			
7.65 CFS	.50	.51	.52	.53	.54	.56	.57	.58
8.05 CFS	.59	.61	.62	.64	.67	.69	.71	.74
8.45 CFS	.77	.79	.82	.85	.88	.91	.93	.97
8.85 CFS	1.00	1.03	1.06	1.09	1.12	1.15	1.18	1.20
9.25 CFS	1.22	1.24	1.26	1.27	1.29	1.30	1.32	1.34
9.65 CFS	1.37	1.41	1.45	1.49	1.54	1.59	1.65	1.70
10.05 CFS	1.75	1.81	1.88	1.95	2.02	2.10	2.18	2.26
10.45 CFS	2.34	2.43	2.52	2.61	2.72	2.84	2.97	3.10
10.85 CFS	3.24	3.38	3.53	3.68	3.84	4.03	4.26	4.52
11.25 CFS	4.82	5.15	5.48	5.84	6.20	6.60	7.45	9.45
11.65 CFS	12.94	18.40	25.58	34.86	46.85	64.54	81.05	88.13
12.05 CFS	83.37	67.82	48.68	33.62	25.04	19.89	16.64	14.39
12.45 CFS	12.72	11.32	10.17	9.21	8.48	7.95	7.56	7.24
12.85 CFS	6.97	6.71	6.47	6.24	6.01	5.80	5.61	5.45
13.25 CFS	5.30	5.17	5.04	4.91	4.79	4.66	4.54	4.42
13.65 CFS	4.31	4.20	4.11	4.01	3.92	3.83	3.74	3.65
14.05 CFS	3.57	3.49	3.42	3.37	3.33	3.29	3.25	3.22
14.45 CFS	3.19	3.16	3.13	3.10	3.06	3.03	3.00	2.97
14.85 CFS	2.94	2.91	2.88	2.85	2.81	2.78	2.75	2.72
15.25 CFS	2.69	2.66	2.63	2.59	2.56	2.53	2.50	2.47
15.65 CFS	2.44	2.40	2.37	2.34	2.31	2.28	2.25	2.21
16.05 CFS	2.18	2.16	2.13	2.11	2.10	2.08	2.07	2.06
16.45 CFS	2.05	2.04	2.03	2.02	2.00	1.99	1.98	1.97

TR20 ----- SCS -
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16.85 CFS	1.96	1.95	1.94	1.93	1.91	1.90	1.89	1.88
17.25 CFS	1.87	1.86	1.85	1.84	1.82	1.81	1.80	1.79
17.65 CFS	1.78	1.77	1.76	1.75	1.73	1.72	1.71	1.70
18.05 CFS	1.69	1.68	1.67	1.65	1.64	1.63	1.62	1.61
18.45 CFS	1.60	1.59	1.58	1.56	1.55	1.54	1.53	1.52
18.85 CFS	1.51	1.49	1.48	1.47	1.46	1.45	1.44	1.43
19.25 CFS	1.41	1.40	1.39	1.38	1.37	1.36	1.35	1.33
19.65 CFS	1.32	1.31	1.30	1.29	1.28	1.27	1.25	1.24
20.05 CFS	1.23	1.22	1.22	1.21	1.20	1.20	1.20	1.20
20.45 CFS	1.19	1.19	1.19	1.19	1.18	1.18	1.18	1.18
20.85 CFS	1.18	1.17	1.17	1.17	1.17	1.16	1.16	1.16
21.25 CFS	1.16	1.16	1.15	1.15	1.15	1.15	1.14	1.14
21.65 CFS	1.14	1.14	1.14	1.13	1.13	1.13	1.13	1.12
22.05 CFS	1.12	1.12	1.12	1.12	1.11	1.11	1.11	1.11
22.45 CFS	1.10	1.10	1.10	1.10	1.09	1.09	1.09	1.09
22.85 CFS	1.09	1.08	1.08	1.08	1.08	1.07	1.07	1.07
23.25 CFS	1.07	1.07	1.06	1.06	1.06	1.06	1.05	1.05
23.65 CFS	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03
24.05 CFS	.96	.76	.48					

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 4.19 WATERSHED INCHES; 70 CFS-HRS; 5.8 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	16
FLOW(CFS)	5	3	2	2	1	1	1	1

DURATION(HRS) 16
 FLOW(CFS) 0

--- XSECTION 1, ALTERNATE 1, STORM 25, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.03 PEAK DISCHARGE(CFS) 112.9 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =25
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	6.50 CFS	.49	.51	.52	.54	.55	.57	.58	.60
	6.90 CFS	.61	.63	.65	.66	.68	.69	.71	.72
	7.30 CFS	.74	.76	.77	.79	.80	.82	.84	.85
	7.70 CFS	.87	.88	.90	.92	.93	.95	.97	.99
	8.10 CFS	1.00	1.03	1.05	1.08	1.12	1.15	1.19	1.23
	8.50 CFS	1.26	1.31	1.35	1.39	1.43	1.47	1.52	1.56
	8.90 CFS	1.61	1.65	1.70	1.75	1.79	1.83	1.87	1.90
	9.30 CFS	1.92	1.95	1.97	1.99	2.01	2.03	2.05	2.09
	9.70 CFS	2.13	2.18	2.25	2.31	2.38	2.45	2.53	2.61
	10.10 CFS	2.69	2.78	2.87	2.97	3.08	3.19	3.30	3.42
	10.50 CFS	3.54	3.66	3.79	3.93	4.09	4.26	4.44	4.63
	10.90 CFS	4.83	5.03	5.24	5.46	5.70	5.99	6.32	6.71

TR20 ----- SCS -
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11.30	CFS	7.13	7.59	8.07	8.56	9.07	10.01	11.86	15.64
11.70	CFS	21	30	41	55	74	95	110	112
12.10	CFS	101	80	60	45	35	28	24	20
12.50	CFS	17.76	15.71	14.00	12.63	11.56	10.79	10.20	9.76
12.90	CFS	9.37	9.01	8.67	8.35	8.05	7.77	7.52	7.31
13.30	CFS	7.11	6.92	6.74	6.57	6.40	6.23	6.07	5.91
13.70	CFS	5.76	5.63	5.50	5.37	5.25	5.12	5.00	4.88
14.10	CFS	4.77	4.68	4.59	4.52	4.46	4.41	4.36	4.32
14.50	CFS	4.27	4.23	4.19	4.14	4.10	4.06	4.02	3.98
14.90	CFS	3.93	3.89	3.85	3.81	3.76	3.72	3.68	3.64
15.30	CFS	3.60	3.55	3.51	3.47	3.43	3.38	3.34	3.30
15.70	CFS	3.26	3.21	3.17	3.13	3.09	3.04	3.00	2.96
16.10	CFS	2.92	2.88	2.86	2.83	2.81	2.79	2.77	2.76
16.50	CFS	2.74	2.73	2.71	2.70	2.68	2.67	2.65	2.64
16.90	CFS	2.62	2.61	2.59	2.57	2.56	2.54	2.53	2.51
17.30	CFS	2.50	2.48	2.47	2.45	2.44	2.42	2.41	2.39
17.70	CFS	2.38	2.36	2.35	2.33	2.32	2.30	2.29	2.27
18.10	CFS	2.26	2.24	2.23	2.21	2.19	2.18	2.16	2.15
18.50	CFS	2.13	2.12	2.10	2.09	2.07	2.06	2.04	2.03
18.90	CFS	2.01	2.00	1.98	1.97	1.95	1.94	1.92	1.90
19.30	CFS	1.89	1.87	1.86	1.84	1.83	1.81	1.80	1.78
19.70	CFS	1.77	1.75	1.74	1.72	1.70	1.69	1.67	1.66
20.10	CFS	1.64	1.63	1.62	1.62	1.61	1.61	1.60	1.60
20.50	CFS	1.59	1.59	1.59	1.59	1.58	1.58	1.58	1.57
20.90	CFS	1.57	1.57	1.56	1.56	1.56	1.56	1.55	1.55
21.30	CFS	1.55	1.54	1.54	1.54	1.53	1.53	1.53	1.53
21.70	CFS	1.52	1.52	1.52	1.51	1.51	1.51	1.50	1.50
22.10	CFS	1.50	1.50	1.49	1.49	1.49	1.48	1.48	1.48
22.50	CFS	1.47	1.47	1.47	1.46	1.46	1.46	1.46	1.45
22.90	CFS	1.45	1.45	1.44	1.44	1.44	1.43	1.43	1.43
23.30	CFS	1.42	1.42	1.42	1.42	1.41	1.41	1.41	1.40
23.70	CFS	1.40	1.40	1.39	1.39	1.39	1.39	1.38	1.33
24.10	CFS	1.16	.86	.57	.35				

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 4.42 WATERSHED INCHES; 97 CFS-HRS; 8.0 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	16
FLOW(CFS)	7	4	3	2	2	2	1	1

DURATION(HRS)	18
FLOW(CFS)	0

--- XSECTION 1, ALTERNATE 1, STORM 25, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 4

TR20 ----- SCS -
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EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 50-YR
 STARTING TIME = .00 RAIN DEPTH = 7.05 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =50 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.00 108.2 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =50
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	MAIN	TIME	INCREMENT	=	.050	hr,	DRAINAGE	AREA	=	.03	SQ.MI.
6.65	CFS	.49	.50	.52	.53	.54	.56	.57	.59		
7.05	CFS	.60	.61	.63	.64	.66	.67	.68	.70		
7.45	CFS	.71	.73	.74	.76	.77	.79	.80	.82		
7.85	CFS	.83	.84	.86	.87	.89	.91	.93	.96		
8.25	CFS	.99	1.02	1.05	1.09	1.12	1.16	1.19	1.23		
8.65	CFS	1.27	1.31	1.34	1.39	1.43	1.47	1.51	1.55		
9.05	CFS	1.59	1.63	1.66	1.69	1.71	1.74	1.75	1.77		
9.45	CFS	1.79	1.81	1.83	1.85	1.89	1.93	1.99	2.05		
9.85	CFS	2.11	2.18	2.24	2.31	2.38	2.46	2.54	2.63		
10.25	CFS	2.72	2.82	2.92	3.03	3.14	3.25	3.36	3.48		
10.65	CFS	3.61	3.77	3.92	4.10	4.27	4.46	4.64	4.83		
11.05	CFS	5.03	5.27	5.55	5.89	6.27	6.68	7.10	7.55		
11.45	CFS	8.00	8.47	9.47	12.06	16.47	23.39	32.44	43.98		
11.85	CFS	58.79	80.18	100.22	108.16	101.92	82.60	59.28	40.98		
12.25	CFS	30.32	24.02	20.12	17.40	15.37	13.67	12.27	11.11		
12.65	CFS	10.23	9.59	9.12	8.73	8.40	8.09	7.80	7.51		
13.05	CFS	7.24	6.99	6.76	6.56	6.39	6.22	6.06	5.91		
13.45	CFS	5.76	5.60	5.46	5.31	5.18	5.06	4.94	4.83		
13.85	CFS	4.72	4.61	4.50	4.39	4.29	4.19	4.12	4.05		
14.25	CFS	4.00	3.95	3.91	3.87	3.83	3.79	3.76	3.72		
14.65	CFS	3.68	3.64	3.61	3.57	3.53	3.49	3.46	3.42		
15.05	CFS	3.38	3.34	3.30	3.27	3.23	3.19	3.15	3.11		
15.45	CFS	3.08	3.04	3.00	2.96	2.92	2.88	2.85	2.81		
15.85	CFS	2.77	2.73	2.70	2.66	2.62	2.59	2.56	2.54		
16.25	CFS	2.52	2.50	2.49	2.47	2.46	2.44	2.43	2.42		
16.65	CFS	2.40	2.39	2.38	2.36	2.35	2.34	2.32	2.31		
17.05	CFS	2.29	2.28	2.27	2.25	2.24	2.23	2.21	2.20		
17.45	CFS	2.19	2.17	2.16	2.15	2.13	2.12	2.11	2.09		
17.85	CFS	2.08	2.06	2.05	2.04	2.02	2.01	2.00	1.98		
18.25	CFS	1.97	1.95	1.94	1.93	1.91	1.90	1.89	1.87		
18.65	CFS	1.86	1.85	1.83	1.82	1.80	1.79	1.78	1.76		
19.05	CFS	1.75	1.74	1.72	1.71	1.69	1.68	1.67	1.65		
19.45	CFS	1.64	1.63	1.61	1.60	1.58	1.57	1.56	1.54		
19.85	CFS	1.53	1.52	1.50	1.49	1.47	1.46	1.45	1.45		
20.25	CFS	1.44	1.44	1.44	1.43	1.43	1.43	1.42	1.42		
20.65	CFS	1.42	1.41	1.41	1.41	1.41	1.40	1.40	1.40		

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21.05 CFS	1.40	1.39	1.39	1.39	1.38	1.38	1.38	1.38
21.45 CFS	1.37	1.37	1.37	1.37	1.36	1.36	1.36	1.36
21.85 CFS	1.35	1.35	1.35	1.34	1.34	1.34	1.34	1.33
22.25 CFS	1.33	1.33	1.33	1.32	1.32	1.32	1.32	1.31
22.65 CFS	1.31	1.31	1.30	1.30	1.30	1.30	1.29	1.29
23.05 CFS	1.29	1.28	1.28	1.28	1.28	1.27	1.27	1.27
23.45 CFS	1.27	1.26	1.26	1.26	1.25	1.25	1.25	1.25
23.85 CFS	1.24	1.24	1.24	1.23	1.15	.90	.57	.31

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 5.19 WATERSHED INCHES; 86 CFS-HRS; 7.1 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	16
FLOW(CFS)	6	4	3	2	2	1	1	1

DURATION(HRS) 18
 FLOW(CFS) 0

--- XSECTION 1, ALTERNATE 1, STORM 50, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS) 12.03 PEAK DISCHARGE(CFS) 137.5 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 50
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	5.65 CFS	.49	.51	.53	.54	.56	.58	.60	.61
	6.05 CFS	.63	.65	.67	.69	.70	.72	.74	.76
	6.45 CFS	.78	.80	.81	.83	.85	.87	.89	.91
	6.85 CFS	.93	.95	.97	.99	1.01	1.03	1.05	1.07
	7.25 CFS	1.09	1.10	1.12	1.14	1.16	1.18	1.20	1.22
	7.65 CFS	1.24	1.27	1.29	1.31	1.33	1.35	1.37	1.39
	8.05 CFS	1.41	1.43	1.46	1.49	1.53	1.58	1.62	1.67
	8.45 CFS	1.72	1.77	1.83	1.88	1.93	1.99	2.04	2.10
	8.85 CFS	2.16	2.22	2.27	2.33	2.39	2.45	2.50	2.54
	9.25 CFS	2.58	2.61	2.64	2.66	2.69	2.71	2.73	2.76
	9.65 CFS	2.80	2.86	2.92	3.00	3.08	3.17	3.27	3.36
	10.05 CFS	3.46	3.56	3.67	3.79	3.92	4.05	4.19	4.33
	10.45 CFS	4.48	4.63	4.78	4.95	5.13	5.32	5.54	5.76
	10.85 CFS	6.00	6.24	6.50	6.75	7.03	7.33	7.69	8.10
	11.25 CFS	8.59	9.11	9.68	10.27	10.88	11.50	12.67	14.98
	11.65 CFS	20	27	37	50	68	91	117	135
	12.05 CFS	136	123	97	73	54	42	34	28
	12.45 CFS	24.49	21.36	18.88	16.81	15.16	13.88	12.95	12.24
	12.85 CFS	11.71	11.24	10.80	10.40	10.01	9.64	9.31	9.02
	13.25 CFS	8.75	8.52	8.29	8.08	7.87	7.66	7.46	7.26
	13.65 CFS	7.08	6.90	6.74	6.58	6.43	6.28	6.13	5.99
	14.05 CFS	5.84	5.71	5.59	5.49	5.41	5.34	5.28	5.22
	14.45 CFS	5.16	5.11	5.06	5.01	4.96	4.90	4.85	4.80

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14.85	CFS	4.75	4.70	4.65	4.60	4.55	4.50	4.45	4.40
15.25	CFS	4.35	4.30	4.25	4.20	4.14	4.09	4.04	3.99
15.65	CFS	3.94	3.89	3.84	3.79	3.74	3.69	3.64	3.59
16.05	CFS	3.53	3.49	3.45	3.41	3.38	3.36	3.33	3.31
16.45	CFS	3.29	3.27	3.26	3.24	3.22	3.20	3.18	3.17
16.85	CFS	3.15	3.13	3.11	3.09	3.07	3.06	3.04	3.02
17.25	CFS	3.00	2.98	2.97	2.95	2.93	2.91	2.89	2.87
17.65	CFS	2.86	2.84	2.82	2.80	2.78	2.76	2.75	2.73
18.05	CFS	2.71	2.69	2.67	2.66	2.64	2.62	2.60	2.58
18.45	CFS	2.56	2.55	2.53	2.51	2.49	2.47	2.45	2.44
18.85	CFS	2.42	2.40	2.38	2.36	2.34	2.33	2.31	2.29
19.25	CFS	2.27	2.25	2.23	2.22	2.20	2.18	2.16	2.14
19.65	CFS	2.12	2.11	2.09	2.07	2.05	2.03	2.01	2.00
20.05	CFS	1.98	1.96	1.95	1.94	1.93	1.92	1.92	1.91
20.45	CFS	1.91	1.90	1.90	1.89	1.89	1.89	1.88	1.88
20.85	CFS	1.88	1.87	1.87	1.87	1.86	1.86	1.85	1.85
21.25	CFS	1.85	1.84	1.84	1.84	1.83	1.83	1.83	1.82
21.65	CFS	1.82	1.81	1.81	1.81	1.80	1.80	1.80	1.79
22.05	CFS	1.79	1.79	1.78	1.78	1.77	1.77	1.77	1.76
22.45	CFS	1.76	1.76	1.75	1.75	1.75	1.74	1.74	1.73
22.85	CFS	1.73	1.73	1.72	1.72	1.72	1.71	1.71	1.71
23.25	CFS	1.70	1.70	1.69	1.69	1.69	1.68	1.68	1.68
23.65	CFS	1.67	1.67						

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 5.39 WATERSHED INCHES; 118 CFS-HRS; 9.8 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	12	14	16
FLOW(CFS)	9	5	3	3	2	2	2	2 TRUNCATED

--- XSECTION 1, ALTERNATE 1, STORM 50, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 5

EXECUTIVE CONTROL COMPUT FROM XSECTION 1 TO XSECTION 1 100-YR
 STARTING TIME = .00 RAIN DEPTH = 8.26 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =99 RAIN TABLE NO. = 2

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
12.00	131.0	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =99
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	CFS	.49	.50	.52	.54	.55	.57	.58	.60
5.80	CFS	.49	.50	.52	.54	.55	.57	.58	.60
6.20	CFS	.62	.63	.65	.66	.68	.70	.71	.73
6.60	CFS	.75	.76	.78	.80	.82	.83	.85	.87
7.00	CFS	.88	.90	.92	.94	.95	.97	.99	1.01
7.40	CFS	1.02	1.04	1.06	1.08	1.10	1.11	1.13	1.15
7.80	CFS	1.17	1.19	1.20	1.22	1.24	1.26	1.28	1.31
8.20	CFS	1.35	1.38	1.43	1.47	1.51	1.56	1.60	1.65
8.60	CFS	1.70	1.75	1.80	1.85	1.90	1.95	2.00	2.06
9.00	CFS	2.11	2.16	2.21	2.25	2.28	2.31	2.34	2.36
9.40	CFS	2.38	2.40	2.42	2.44	2.47	2.51	2.57	2.64
9.80	CFS	2.71	2.79	2.88	2.96	3.05	3.13	3.23	3.33
10.20	CFS	3.45	3.56	3.69	3.82	3.95	4.08	4.21	4.35
10.60	CFS	4.51	4.67	4.86	5.06	5.28	5.49	5.72	5.94
11.00	CFS	6.18	6.42	6.73	7.07	7.50	7.96	8.47	8.99
11.40	CFS	9.54	10.08	10.70	12.01	15.16	20.60	29.07	40.06
11.80	CFS	54.05	71.80	97.63	121.40	130.98	123.13	99.71	71.37
12.20	CFS	49.15	36.50	28.92	24.13	20.83	18.38	16.34	14.67
12.60	CFS	13.27	12.22	11.45	10.89	10.42	10.03	9.65	9.31
13.00	CFS	8.96	8.64	8.33	8.06	7.82	7.61	7.41	7.23
13.40	CFS	7.04	6.86	6.68	6.50	6.33	6.17	6.02	5.89
13.80	CFS	5.75	5.62	5.49	5.36	5.23	5.11	4.99	4.90
14.20	CFS	4.82	4.76	4.70	4.66	4.61	4.56	4.51	4.47
14.60	CFS	4.42	4.38	4.33	4.29	4.24	4.20	4.15	4.11
15.00	CFS	4.06	4.02	3.97	3.93	3.88	3.84	3.79	3.75
15.40	CFS	3.70	3.66	3.61	3.57	3.52	3.48	3.43	3.39
15.80	CFS	3.34	3.29	3.25	3.21	3.16	3.11	3.07	3.04
16.20	CFS	3.01	2.99	2.97	2.95	2.94	2.92	2.90	2.89
16.60	CFS	2.87	2.86	2.84	2.82	2.81	2.79	2.77	2.76
17.00	CFS	2.74	2.73	2.71	2.69	2.68	2.66	2.65	2.63
17.40	CFS	2.61	2.60	2.58	2.57	2.55	2.53	2.52	2.50
17.80	CFS	2.48	2.47	2.45	2.44	2.42	2.40	2.39	2.37
18.20	CFS	2.35	2.34	2.32	2.31	2.29	2.27	2.26	2.24
18.60	CFS	2.22	2.21	2.19	2.18	2.16	2.14	2.13	2.11
19.00	CFS	2.09	2.08	2.06	2.04	2.03	2.01	1.99	1.98
19.40	CFS	1.96	1.95	1.93	1.91	1.90	1.88	1.86	1.85
19.80	CFS	1.83	1.81	1.80	1.78	1.77	1.75	1.74	1.73
20.20	CFS	1.72	1.71	1.71	1.70	1.70	1.69	1.69	1.69
20.60	CFS	1.69	1.68	1.68	1.68	1.67	1.67	1.67	1.66
21.00	CFS	1.66	1.66	1.65	1.65	1.65	1.64	1.64	1.64
21.40	CFS	1.63	1.63	1.63	1.62	1.62	1.62	1.61	1.61
21.80	CFS	1.61	1.60	1.60	1.60	1.60	1.59	1.59	1.59
22.20	CFS	1.58	1.58	1.58	1.57	1.57	1.57	1.56	1.56
22.60	CFS	1.56	1.55	1.55	1.55	1.54	1.54	1.54	1.53
23.00	CFS	1.53	1.53	1.52	1.52	1.52	1.51	1.51	1.51
23.40	CFS	1.50	1.50	1.50	1.50	1.49	1.49	1.48	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 6.31 WATERSHED INCHES; 105 CFS-HRS; 8.7 ACRE-FEET.

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DURATION(HRS)	2	4	6	8	10	12	14	15
FLOW(CFS)	8	4	3	3	2	2	2	1 TRUNCATED

--- XSECTION 1, ALTERNATE 1, STORM 99, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF XSECTION 1

PEAK TIME(HRS)	PEAK DISCHARGE(CFS)	PEAK ELEVATION(FEET)
12.03	165.4	(RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =99
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .03 SQ.MI.

HRS	CFS	.49	.51	.53	.55	.57	.59	.61	.63
4.90	CFS	.65	.67	.69	.71	.73	.75	.78	.80
5.30	CFS	.82	.84	.86	.88	.91	.93	.95	.97
5.70	CFS	1.00	1.02	1.04	1.06	1.09	1.11	1.13	1.16
6.10	CFS	1.18	1.20	1.23	1.25	1.27	1.30	1.32	1.34
6.50	CFS	1.37	1.39	1.41	1.44	1.46	1.49	1.51	1.53
6.90	CFS	1.56	1.58	1.61	1.63	1.66	1.68	1.70	1.73
7.30	CFS	1.75	1.78	1.80	1.83	1.85	1.88	1.90	1.93
7.70	CFS	1.96	1.99	2.03	2.08	2.14	2.20	2.26	2.32
8.10	CFS	2.39	2.46	2.52	2.59	2.66	2.73	2.80	2.88
8.50	CFS	2.95	3.02	3.10	3.17	3.24	3.30	3.35	3.40
8.90	CFS	3.43	3.46	3.49	3.52	3.54	3.57	3.60	3.65
9.30	CFS	3.72	3.80	3.89	4.00	4.11	4.22	4.34	4.46
9.70	CFS	4.59	4.73	4.87	5.03	5.20	5.37	5.54	5.73
10.10	CFS	5.91	6.10	6.30	6.52	6.76	7.02	7.30	7.60
10.50	CFS	7.89	8.20	8.51	8.85	9.22	9.66	10.16	10.76
10.90	CFS	11.40	12.10	12.81	13.56	14.31	15.74	18.57	24.34
11.30	CFS	33	46	62	83	111	141	162	164
11.70	CFS	147	117	87	65	50	41	34	29
12.10	CFS	25.44	22.48	20.01	18.03	16.50	15.40	14.55	13.92
12.50	CFS	13.36	12.84	12.35	11.89	11.46	11.06	10.71	10.40
12.90	CFS	10.11	9.85	9.59	9.34	9.10	8.86	8.62	8.40
13.30	CFS	8.19	8.00	7.81	7.63	7.45	7.28	7.10	6.93
13.70	CFS	6.78	6.64	6.52	6.42	6.33	6.26	6.19	6.12
14.10	CFS	6.06	6.00	5.94	5.88	5.82	5.76	5.70	5.64
14.50	CFS	5.58	5.52	5.46	5.39	5.33	5.28	5.22	5.15
14.90	CFS	5.09	5.03	4.97	4.91	4.85	4.79	4.73	4.67
15.30	CFS	4.61	4.55	4.49	4.43	4.37	4.31	4.25	4.19
15.70	CFS	4.13	4.08	4.04	4.01	3.98	3.95	3.93	3.90
16.10	CFS	3.88	3.86	3.84	3.81	3.79	3.77	3.75	3.73
16.50	CFS	3.71	3.68	3.66	3.64	3.62	3.60	3.58	3.55
16.90	CFS	3.53	3.51	3.49	3.47	3.45	3.43	3.40	3.38
17.30	CFS	3.36	3.34	3.32	3.30	3.27	3.25	3.23	3.21
17.70	CFS	3.19	3.17	3.14	3.12	3.10	3.08	3.06	3.04
18.10	CFS	3.01	2.99	2.97	2.95	2.93	2.91	2.88	2.86
18.50	CFS	2.84	2.82	2.80	2.77	2.75	2.73	2.71	2.69
18.90	CFS	2.67	2.64	2.62	2.60	2.58	2.56	2.54	2.51
19.30	CFS								

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19.70 CFS	2.49	2.47	2.45	2.43	2.40	2.38	2.36	2.34
20.10 CFS	2.32	2.30	2.29	2.28	2.27	2.27	2.26	2.25
20.50 CFS	2.25	2.25	2.24	2.24	2.23	2.23	2.22	2.22
20.90 CFS	2.21	2.21	2.21	2.20	2.20	2.19	2.19	2.18
21.30 CFS	2.18	2.18	2.17	2.17	2.16	2.16	2.16	2.15
21.70 CFS	2.15	2.14	2.14	2.13	2.13	2.12	2.12	2.12
22.10 CFS	2.11	2.11	2.10	2.10	2.09	2.09	2.09	2.08
22.50 CFS	2.08	2.07	2.07	2.06	2.06	2.06	2.05	2.05
22.90 CFS	2.04	2.04	2.03	2.03	2.02	2.02	2.02	

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 6.51 WATERSHED INCHES; 142 CFS-HRS; 11.8 ACRE-FEET.

DURATION(HRS)	2	4	6	8	10	11	
FLOW(CFS)	10	6	4	3	3	2 TRUNCATED	

--- XSECTION 1, ALTERNATE 1, STORM 99, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 6

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
 A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
 F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

XSECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	ELEVATION (FT)	PEAK DISCHARGE		
					TIME (HR)	RATE (CFS)	RATE (CSM)
RAINFALL OF 3.11 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
RAINTABLE NUMBER 2, ARC 2							
MAIN TIME INCREMENT .050 HOURS							
ALTERNATE 1 STORM 2							
XSECTION	1	RUNOFF	.03	1.61	---	12.01	35 1166.7
XSECTION	1	RUNOFF	.03	1.77	---	12.04	46 1533.3
RAINFALL OF 4.00 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
ALTERNATE 1 STORM 5							
XSECTION	1	RUNOFF	.03	2.38	---	12.01	51 1700.0
XSECTION	1	RUNOFF	.03	2.56	---	12.04	67 2233.3
RAINFALL OF 4.78 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
ALTERNATE 1 STORM 10							
XSECTION	1	RUNOFF	.03	3.08	---	12.01	65 2166.7
XSECTION	1	RUNOFF	.03	3.28	---	12.03	85 2833.3
RAINFALL OF 5.99 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
ALTERNATE 1 STORM 25							
XSECTION	1	RUNOFF	.03	4.19	---	12.00	88 2933.3
XSECTION	1	RUNOFF	.03	4.42	---	12.03	113 3766.7
RAINFALL OF 7.05 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
ALTERNATE 1 STORM 50							
XSECTION	1	RUNOFF	.03	5.19	---	12.00	108 3600.0

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
 A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
 F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

XSECTION/ STRUCTURE ID	STANDARD CONTROL OPERATION	DRAINAGE AREA (SQ MI)	RUNOFF AMOUNT (IN)	PEAK DISCHARGE			
				ELEVATION (FT)	TIME (HR)	RATE (CFS)	RATE (CSM)
ALTERNATE 1 STORM 50 -----							
XSECTION	1	RUNOFF	.03	5.39	---	12.03	137 4566.7
RAINFALL OF 8.26 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.							
ALTERNATE 1 STORM 99 -----							
XSECTION	1	RUNOFF	.03	6.31	---	12.00	131 4366.7
XSECTION	1	RUNOFF	.03	6.51	---	12.03	165 5500.0

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
 QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS.....				
		2	5	10	25	50
XSECTION 1	.03					
-----	-----					
ALTERNATE 1		46	67	85	113	137

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
 QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

XSECTION/ STRUCTURE ID	DRAINAGE AREA (SQ MI)	STORM NUMBERS.....
		99
XSECTION 1	.03	
-----	-----	
ALTERNATE 1		165

SUMMARY TABLE #3 / 3A DATA REORDERED IN DESCENDING ORDER FOR ECON2.

ECON2 DATA FILE

ECON2
TITLE JONES POINT PARK PROPOSED CONDITIONS
TITLE FILENAME: JPPPR2.dat 7/22/05 BY: TLH
FLOW-FREQ 1 165. 137. 113. 85. 67.ALT 1 1
FLOW-FREQ 1 46. ALT 1 2

TR20 ----- SCS -
09/16/** JONES POINT PARK PROPOSED CONDITIONS VERSION
FILENAME: JPPPR2.dat 7/22/05 BY: TLH 2.04TEST

END OF 1 JOBS IN THIS RUN

SCS TR-20, VERSION 2.04TEST
FILES

INPUT = C:\JPPPR2.DAT , GIVEN DATA FILE
OUTPUT = C:\JPPPR2.OUT , DATED 09/16/**,15:41:17

FILES GENERATED - DATED 09/16/**,15:41:17

FILE C:\JPPPR2.TEC CONTAINS ECON2 INFORMATION

FILE C:\JPPPR2.TRD CONTAINS READHD INFORMATION

FILE C:\JPPPR2.TMG CONTAINS MESSAGE + WARNING INFORMATION

TOTAL NUMBER OF WARNINGS = 1, MESSAGES = 0

JOB ENDED AT 15:41:17
*** TR-20 RUN COMPLETED ***

Appendix D

Existing Conditions,
 Clogged Pipe
 Culvert 1

JPP1.LST

1

CURRENT DATE: 09-22-2005
 CURRENT TIME: 14:40:35

FILE DATE: 09-22-2005
 FILE NAME: JPP1

 ##### FHWA CULVERT ANALYSIS #####
 ##### HY-8, VERSION 6.1 #####
 #####

3 C 3 SITE DATA 3 CULVERT SHAPE, MATERIAL, INLET 3
 3 U #####
 3 L 3 INLET OUTLET CULVERT 3 BARRELS 3
 3 V 3 ELEV. ELEV. LENGTH 3 SHAPE SPAN RISE MANNING INLET 3
 3 NO. 3 (ft) (ft) (ft) 3 MATERIAL (ft) (ft) n TYPE 3
 3 1 3 2.05 1.28 54.01 3 1 RCP 2.00 2.00 .013 CONVENTIONAL 3
 3 2 3 3
 3 3 3 3
 3 4 3 3
 3 5 3 3
 3 6 3 3
 #####

 SUMMARY OF CULVERT FLOWS (cfs) FILE: JPP1 DATE: 09-22-2005

ELEV (ft)	TOTAL	1	2	3	4	5	6	ROADWAY	ITR
2.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1
3.89	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.00	1
4.44	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.00	1
4.91	8.7	8.7	0.0	0.0	0.0	0.0	0.0	0.00	1
5.36	11.6	11.6	0.0	0.0	0.0	0.0	0.0	0.00	1
5.83	14.5	14.5	0.0	0.0	0.0	0.0	0.0	0.00	1
5.91	15.0	15.0	0.0	0.0	0.0	0.0	0.0	0.00	1
6.04	20.3	12.1	0.0	0.0	0.0	0.0	0.0	8.09	22
6.06	23.2	9.5	0.0	0.0	0.0	0.0	0.0	13.48	10
6.08	26.1	6.4	0.0	0.0	0.0	0.0	0.0	19.49	9
6.08	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	3
6.00	15.5	15.5	0.0	0.0	0.0	0.0	0.0	0.0	OVERTOPPING

 SUMMARY OF ITERATIVE SOLUTION ERRORS FILE: JPP1 DATE: 09-22-2005

HEAD ELEV (ft)	HEAD ERROR (ft)	TOTAL FLOW (cfs)	FLOW ERROR (cfs)	% FLOW ERROR
2.61	0.000	0.00	0.00	0.00
3.89	0.000	2.90	0.00	0.00
4.44	0.000	5.80	0.00	0.00
4.91	0.000	8.70	0.00	0.00
5.36	0.000	11.60	0.00	0.00
5.83	0.000	14.50	0.00	0.00
5.91	0.000	15.00	0.00	0.00
6.04	0.000	20.30	0.15	0.74
6.06	0.000	23.20	0.18	0.78
6.08	0.000	26.10	0.18	0.69
6.08	0.000	29.00	29.00	100.00

 <1> TOLERANCE (ft) = 0.010 <2> TOLERANCE (%) = 1.000
 #####
 •

2

Existing Conditions,
Clogged Pipe

JPP1.LST

PERFORMANCE CURVE FOR CULVERT 1 - 1(2.00 (ft) BY 2.00 (ft)) RCP

DIS-CHARGE FLOW (cfs)	HEAD- ELEV. (ft)	INLET DEPTH (ft)	OUTLET DEPTH (ft)	CONTROL TYPE <F4>	FLOW NORMAL DEPTH (ft)	CRIT. DEPTH (ft)	OUTLET DEPTH (ft)	TW DEPTH (ft)	OUTLET VEL. (fps)	TW VEL. (fps)
0.00	2.61	0.00	0.56	0-NF	0.00	0.00	0.00	1.33	0.00	0.00
2.90	3.89	0.77	1.84	1-S1f	0.44	0.59	2.00	2.58	0.92	0.51
5.80	4.44	1.18	2.39	4-FFt	0.63	0.85	2.00	3.06	1.85	0.61
8.70	4.91	1.50	2.86	4-FFt	0.78	1.05	2.00	3.41	2.77	0.68
11.60	5.36	1.77	3.31	4-FFt	0.91	1.22	2.00	3.69	3.69	0.73
14.50	5.83	2.04	3.78	4-FFt	1.04	1.37	2.00	3.93	4.62	0.77
15.00	5.91	2.09	3.86	4-FFt	1.06	1.40	2.00	3.97	4.77	0.78
12.06	6.04	1.81	3.99	4-FFt	0.93	1.24	2.00	4.34	3.84	0.84
9.54	6.06	1.58	4.01	4-FFt	0.82	1.10	2.00	4.51	3.04	0.87
6.43	6.07	1.26	4.02	4-FFt	0.66	0.89	2.00	4.68	2.05	0.90
0.00	6.11	0.00	4.06	0-NF	0.00	0.00	0.00	4.83	2.05	0.92

El. inlet face invert 2.05 ft El. outlet invert 1.28 ft
 El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT *****
 INLET STATION 0.00 ft
 INLET ELEVATION 2.05 ft
 OUTLET STATION 54.00 ft
 OUTLET ELEVATION 1.28 ft
 NUMBER OF BARRELS 1
 SLOPE (V/H) 0.0143
 CULVERT LENGTH ALONG SLOPE 54.01 ft

***** CULVERT DATA SUMMARY *****
 BARREL SHAPE CIRCULAR
 BARREL DIAMETER 2.00 ft
 BARREL MATERIAL CONCRETE
 BARREL MANNING'S n 0.013
 INLET TYPE CONVENTIONAL
 INLET EDGE AND WALL GROOVED END PROJECTION
 INLET DEPRESSION NONE

***** TAILWATER *****

***** REGULAR CHANNEL CROSS SECTION *****
 BOTTOM WIDTH 2.00 ft
 SIDE SLOPE H/V (X:1) 2.0
 CHANNEL SLOPE V/H (ft/ft) 0.004
 MANNING'S n (.01-0.1) 0.150
 CHANNEL INVERT ELEVATION 2.61 ft
 CULVERT NO.1 OUTLET INVERT ELEVATION 1.28 ft

***** UNIFORM FLOW RATING CURVE FOR DOWNSTREAM CHANNEL *****
 FLOW (cfs) 0.00
 W.S.E. (ft) 2.61
 FROUDE NUMBER 0.000
 DEPTH (ft) 0.00
 VEL. (f/s) 0.00
 SHEAR (psf) 0.00

JPP1.LST

2.90	3.86	0.081	1.25	0.51	0.31
5.80	4.34	0.082	1.73	0.61	0.43
8.70	4.69	0.083	2.08	0.68	0.52
11.60	4.97	0.084	2.36	0.73	0.59
14.50	5.21	0.085	2.60	0.77	0.65
15.00	5.25	0.085	2.64	0.78	0.66
20.30	5.62	0.086	3.01	0.84	0.75
23.20	5.79	0.086	3.18	0.87	0.79
26.10	5.96	0.086	3.35	0.90	0.83
29.00	6.11	0.087	3.50	0.92	0.87

AA
AA
AA
AA

ROADWAY SURFACE	PAVED
EMBANKMENT TOP WIDTH	17.00 ft
CREST LENGTH	300.00 ft
OVERTOPPING CREST ELEVATION	6.00 ft

AA
●

JPP1.LST

2.90	2.53	0.081	1.25	0.51	0.31
5.80	3.01	0.082	1.73	0.61	0.43
8.70	3.36	0.083	2.08	0.68	0.52
11.60	3.64	0.084	2.36	0.73	0.59
14.50	3.88	0.085	2.60	0.77	0.65
15.00	3.92	0.085	2.64	0.78	0.66
20.30	4.29	0.086	3.01	0.84	0.75
23.20	4.46	0.086	3.18	0.87	0.79
26.10	4.63	0.086	3.35	0.90	0.83
29.00	4.78	0.087	3.50	0.92	0.87

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 ~~~~~ ROADWAY OVERTOPPING DATA ~~~~~  
 ~~~~~

ROADWAY SURFACE	PAVED
EMBANKMENT TOP WIDTH	17.00 ft
CREST LENGTH	300.00 ft
OVERTOPPING CREST ELEVATION	6.00 ft

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CURRENT DATE: 09-22-2005
CURRENT TIME: 14:48:24

FILE DATE: 09-22-2005
FILE NAME: JPP1

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   FHWA CULVERT ANALYSIS   AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   HY-8, VERSION 6.1       AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
UAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   AAAAAAAAAAAAAAAAAAAAAA
3 C 3 SITE DATA 3 CULVERT SHAPE, MATERIAL, INLET 3
3 U AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAA A
3 L 3 INLET OUTLET CULVERT 3 BARRELS 3
3 V 3 ELEV. ELEV. LENGTH 3 SHAPE SPAN RISE MANNING INLET 3
3 NO. 3 (ft) (ft) (ft) 3 MATERIAL (ft) (ft) n TYPE 3
3 1 3 2.05 1.28 54.01 3 1 RCP 2.00 2.00 .013 CONVENTIONAL 3
3 2 3 3
3 3 3 3
3 4 3 3
3 5 3 3
3 6 3 3
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SUMMARY OF CULVERT FLOWS (cfs) FILE: JPP1 DATE: 09-22-2005

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| ELEV (ft) | TOTAL | 1 | 2 | 3 | 4 | 5 | 6 | ROADWAY | ITR |
|-----------|-------|------|-----|-----|-----|-----|-----|---------|-------------|
| 2.05 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1 |
| 2.89 | 3.3 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1 |
| 3.33 | 6.6 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1 |
| 3.77 | 9.9 | 9.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1 |
| 4.29 | 13.2 | 13.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1 |
| 4.83 | 16.5 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1 |
| 4.91 | 17.0 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 1 |
| 5.94 | 23.1 | 22.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 30 |
| 6.03 | 26.4 | 21.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.45 | 25 |
| 6.05 | 29.7 | 20.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.94 | 10 |
| 6.06 | 33.0 | 19.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.52 | 9 |
| 6.00 | 23.0 | 23.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | OVERTOPPING |

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
SUMMARY OF ITERATIVE SOLUTION ERRORS FILE: JPP1 DATE: 09-22-2005

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| HEAD
ELEV (ft) | HEAD
ERROR (ft) | TOTAL
FLOW (cfs) | FLOW
ERROR (cfs) | % FLOW
ERROR |
|-------------------|--------------------|---------------------|---------------------|-----------------|
| 2.05 | 0.000 | 0.00 | 0.00 | 0.00 |
| 2.89 | 0.000 | 3.30 | 0.00 | 0.00 |
| 3.33 | 0.000 | 6.60 | 0.00 | 0.00 |
| 3.77 | 0.000 | 9.90 | 0.00 | 0.00 |
| 4.29 | 0.000 | 13.20 | 0.00 | 0.00 |
| 4.83 | 0.000 | 16.50 | 0.00 | 0.00 |
| 4.91 | 0.000 | 17.00 | 0.00 | 0.00 |
| 5.94 | -0.001 | 23.10 | 0.63 | 2.73 |
| 6.03 | 0.000 | 26.40 | 0.20 | 0.76 |
| 6.05 | 0.000 | 29.70 | 0.26 | 0.88 |
| 6.06 | 0.000 | 33.00 | 0.23 | 0.70 |

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
<1> TOLERANCE (ft) = 0.010 <2> TOLERANCE (%) = 1.000
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JPP1.LST

PERFORMANCE CURVE FOR CULVERT 1 - 1(2.00 (ft) BY 2.00 (ft)) RCP

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
DIS-      HEAD-   INLET   OUTLET
CHARGE   WATER CONTROL CONTROL FLOW NORMAL CRIT. OUTLET TW   OUTLET TW
FLOW     ELEV.  DEPTH  DEPTH  TYPE  DEPTH  DEPTH  DEPTH  DEPTH  VEL.  VEL.
(cfs)    (ft)   (ft)   (ft)  <F4> (ft)   (ft)   (ft)   (ft)   (fps) (fps)
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
0.00     2.05   0.00   0.00  0-NF  0.00   0.00   0.00   0.00   0.00  0.00
3.30     2.89   0.84   0.84  1-S2n 0.46   0.63   0.47   1.33   5.79  0.53
6.60     3.33   1.28   1.28  1-S2n 0.67   0.91   0.61   1.84   8.23  0.63
9.90     3.77   1.61   1.72  1-S1f 0.83   1.12   2.00   2.20   3.15  0.70
13.20    4.29   1.92   2.24  4-FFt 0.98   1.30   2.00   2.50   4.20  0.76
16.50    4.83   2.24   2.78  4-FFt 1.13   1.46   2.00   2.75   5.25  0.80
17.00    4.91   2.30   2.86  4-FFt 1.15   1.48   2.00   2.79   5.41  0.81
22.47    5.94   2.98   3.89  4-FFt 1.39   1.68   2.00   3.18   7.15  0.87
21.75    6.03   2.88   3.98  4-FFt 1.36   1.66   2.00   3.36   6.92  0.90
20.50    6.05   2.71   4.00  4-FFt 1.30   1.62   2.00   3.53   6.53  0.93
19.26    6.06   2.56   4.01  4-FFt 1.25   1.58   2.00   3.69   6.13  0.95
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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El. inlet face invert      2.05 ft  El. outlet invert      1.28 ft
El. inlet throat invert    0.00 ft  El. inlet crest        0.00 ft
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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***** SITE DATA ***** CULVERT INVERT *****
INLET STATION                0.00 ft
INLET ELEVATION              2.05 ft
OUTLET STATION               54.00 ft
OUTLET ELEVATION             1.28 ft
NUMBER OF BARRELS            1
SLOPE (V/H)                  0.0143
CULVERT LENGTH ALONG SLOPE   54.01 ft

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***** CULVERT DATA SUMMARY *****
BARREL SHAPE                  CIRCULAR
BARREL DIAMETER               2.00 ft
BARREL MATERIAL               CONCRETE
BARREL MANNING'S n            0.013
INLET TYPE                    CONVENTIONAL
INLET EDGE AND WALL           GROOVED END PROJECTION
INLET DEPRESSION              NONE

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***** REGULAR CHANNEL CROSS SECTION *****
BOTTOM WIDTH                  2.00 ft
SIDE SLOPE H/V (X:1)         2.0
CHANNEL SLOPE V/H (ft/ft)    0.004
MANNING'S n (.01-0.1)        0.150
CHANNEL INVERT ELEVATION      1.28 ft
CULVERT NO.1 OUTLET INVERT ELEVATION 1.28 ft

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***** UNIFORM FLOW RATING CURVE FOR DOWNSTREAM CHANNEL

| FLOW (cfs) | W.S.E. (ft) | FROUDE NUMBER | DEPTH (ft) | VEL. (f/s) | SHEAR (psf) |
|------------|-------------|---------------|------------|------------|-------------|
| 0.00 | 1.28 | 0.000 | 0.00 | 0.00 | 0.00 |

JPP1.LST

| | | | | | |
|-------|------|-------|------|------|------|
| 3.30 | 2.61 | 0.081 | 1.33 | 0.53 | 0.33 |
| 6.60 | 3.12 | 0.083 | 1.84 | 0.63 | 0.46 |
| 9.90 | 3.48 | 0.084 | 2.20 | 0.70 | 0.55 |
| 13.20 | 3.78 | 0.084 | 2.50 | 0.76 | 0.62 |
| 16.50 | 4.03 | 0.085 | 2.75 | 0.80 | 0.69 |
| 17.00 | 4.07 | 0.085 | 2.79 | 0.81 | 0.70 |
| 23.10 | 4.46 | 0.086 | 3.18 | 0.87 | 0.79 |
| 26.40 | 4.64 | 0.087 | 3.36 | 0.90 | 0.84 |
| 29.70 | 4.81 | 0.087 | 3.53 | 0.93 | 0.88 |
| 33.00 | 4.97 | 0.087 | 3.69 | 0.95 | 0.92 |

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 ~~~~~ ROADWAY OVERTOPPING DATA ~~~~~  
 ~~~~~

ROADWAY SURFACE	PAVED
EMBANKMENT TOP WIDTH	17.00 ft
CREST LENGTH	300.00 ft
OVERTOPPING CREST ELEVATION	6.00 ft

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JPP2.LST

PERFORMANCE CURVE FOR CULVERT 1 - 1(1.75 (ft) BY 1.75 (ft)) CSP

| DIS-CHARGE FLOW (cfs) | HEAD-ELEV. (ft) | INLET DEPTH (ft) | OUTLET DEPTH (ft) | CONTROL TYPE <F4> | FLOW NORMAL DEPTH (ft) | CRIT. DEPTH (ft) | OUTLET DEPTH (ft) | TW DEPTH (ft) | OUTLET VEL. (fps) | TW VEL. (fps) |
|-----------------------|-----------------|------------------|-------------------|-------------------|------------------------|------------------|-------------------|---------------|-------------------|---------------|
| 0.00 | 4.00 | 0.00 | 1.58 | 0-NF | 0.00 | 0.00 | 0.00 | 2.65 | 0.00 | 0.00 |
| 3.82 | 4.24 | 1.08 | 1.82 | 3-M1f | 1.27 | 0.71 | 1.75 | 2.65 | 1.59 | 0.00 |
| 8.68 | 4.55 | 1.85 | 2.13 | 3-M1f | 1.75 | 1.09 | 1.75 | 2.65 | 3.61 | 0.00 |
| 13.11 | 5.14 | 2.72 | 2.63 | 3-M1f | 1.75 | 1.34 | 1.75 | 2.65 | 5.45 | 0.00 |
| 16.19 | 5.96 | 3.54 | 3.09 | 3-M1f | 1.75 | 1.47 | 1.75 | 2.65 | 6.73 | 0.00 |
| 16.46 | 6.04 | 3.62 | 3.13 | 3-M1f | 1.75 | 1.48 | 1.75 | 2.65 | 6.84 | 0.00 |
| 16.53 | 6.06 | 3.64 | 3.14 | 3-M1f | 1.75 | 1.48 | 1.75 | 2.65 | 6.87 | 0.00 |
| 16.59 | 6.08 | 3.66 | 3.15 | 3-M1f | 1.75 | 1.49 | 1.75 | 2.65 | 6.90 | 0.00 |
| 16.65 | 6.10 | 3.68 | 3.16 | 3-M1f | 1.75 | 1.49 | 1.75 | 2.65 | 6.92 | 0.00 |
| 16.70 | 6.12 | 3.70 | 3.17 | 3-M1f | 1.75 | 1.49 | 1.75 | 2.65 | 6.94 | 0.00 |
| 16.74 | 6.13 | 3.71 | 3.18 | 3-M1f | 1.75 | 1.49 | 1.75 | 2.65 | 6.96 | 0.00 |

El. inlet face invert 2.42 ft El. outlet invert 1.35 ft
 El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT *****

INLET STATION 0.00 ft
 INLET ELEVATION 2.42 ft
 OUTLET STATION 414.00 ft
 OUTLET ELEVATION 1.35 ft
 NUMBER OF BARRELS 1
 SLOPE (V/H) 0.0026
 CULVERT LENGTH ALONG SLOPE 414.00 ft

***** CULVERT DATA SUMMARY *****

BARREL SHAPE CIRCULAR
 BARREL DIAMETER 1.75 ft
 BARREL MATERIAL CORRUGATED STEEL
 BARREL MANNING'S n 0.024
 INLET TYPE CONVENTIONAL
 INLET EDGE AND WALL THIN EDGE PROJECTING
 INLET DEPRESSION NONE

PERFORMANCE CURVE FOR CULVERT 2 - 1(1.75 (ft) BY 1.75 (ft)) CSP

| DIS-CHARGE FLOW (cfs) | HEAD-ELEV. (ft) | INLET DEPTH (ft) | OUTLET DEPTH (ft) | CONTROL TYPE <F4> | FLOW NORMAL DEPTH (ft) | CRIT. DEPTH (ft) | OUTLET DEPTH (ft) | TW DEPTH (ft) | OUTLET VEL. (fps) | TW VEL. (fps) |
|-----------------------|-----------------|------------------|-------------------|-------------------|------------------------|------------------|-------------------|---------------|-------------------|---------------|
| 0.00 | 4.00 | 0.00 | 1.93 | 0-NF | 0.00 | 0.00 | 0.00 | 2.63 | 0.00 | 0.00 |
| 1.97 | 4.23 | 0.75 | 2.16 | 4-FFt | 0.93 | 0.50 | 1.75 | 2.63 | 0.82 | 0.00 |
| 3.02 | 4.55 | 0.95 | 2.48 | 4-FFt | 1.24 | 0.63 | 1.75 | 2.63 | 1.26 | 0.00 |
| 4.33 | 5.14 | 1.16 | 3.07 | 4-FFt | 1.75 | 0.76 | 1.75 | 2.63 | 1.80 | 0.00 |
| 5.68 | 5.96 | 1.37 | 3.89 | 4-FFt | 1.75 | 0.88 | 1.75 | 2.63 | 2.36 | 0.00 |
| 5.79 | 6.04 | 1.39 | 3.97 | 4-FFt | 1.75 | 0.88 | 1.75 | 2.63 | 2.41 | 0.00 |
| 5.82 | 6.06 | 1.40 | 3.99 | 4-FFt | 1.75 | 0.89 | 1.75 | 2.63 | 2.42 | 0.00 |
| 5.85 | 6.08 | 1.40 | 4.01 | 4-FFt | 1.75 | 0.89 | 1.75 | 2.63 | 2.43 | 0.00 |
| 5.87 | 6.10 | 1.40 | 4.03 | 4-FFt | 1.75 | 0.89 | 1.75 | 2.63 | 2.44 | 0.00 |
| 5.89 | 6.11 | 1.41 | 4.04 | 4-FFt | 1.75 | 0.89 | 1.75 | 2.63 | 2.45 | 0.00 |

JPP2.LST

| | | | | | | | | | | |
|------|------|------|------|-------|------|------|------|------|------|------|
| 5.90 | 6.12 | 1.41 | 4.05 | 4-FFt | 1.75 | 0.89 | 1.75 | 2.63 | 2.45 | 0.00 |
|------|------|------|------|-------|------|------|------|------|------|------|

El. inlet face invert 2.07 ft El. outlet invert 1.37 ft
 El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT *****

| | |
|----------------------------|-----------|
| INLET STATION | 0.00 ft |
| INLET ELEVATION | 2.07 ft |
| OUTLET STATION | 414.00 ft |
| OUTLET ELEVATION | 1.37 ft |
| NUMBER OF BARRELS | 1 |
| SLOPE (V/H) | 0.0017 |
| CULVERT LENGTH ALONG SLOPE | 414.00 ft |

***** CULVERT DATA SUMMARY *****

| | |
|---------------------|----------------------|
| BARREL SHAPE | CIRCULAR |
| BARREL DIAMETER | 1.75 ft |
| BARREL MATERIAL | CORRUGATED STEEL |
| BARREL MANNING'S n | 0.024 |
| INLET TYPE | CONVENTIONAL |
| INLET EDGE AND WALL | THIN EDGE PROJECTING |
| INLET DEPRESSION | NONE |

4

| | | |
|-------|-----------|-------|
| ***** | TAILWATER | ***** |
|-------|-----------|-------|

CONSTANT WATER SURFACE ELEVATION
4.00

***** ROADWAY OVERTOPPING DATA *****

| | |
|----------------------|-----------|
| ROADWAY SURFACE | PAVED |
| EMBANKMENT TOP WIDTH | 300.00 ft |

***** USER DEFINED ROADWAY PROFILE

| CROSS-SECTION | X | Y |
|---------------|--------|-------|
| COORD. NO. | ft | ft |
| 1 | 0.00 | 12.00 |
| 2 | 140.00 | 7.00 |
| 3 | 260.00 | 6.00 |
| 4 | 495.00 | 6.00 |
| 5 | 690.00 | 7.00 |

JPP2.LST

PERFORMANCE CURVE FOR CULVERT 1 - 1(1.75 (ft) BY 1.75 (ft)) CSP

| DIS-CHARGE FLOW (cfs) | HEAD-ELEV. (ft) | INLET DEPTH (ft) | OUTLET DEPTH (ft) | CONTROL TYPE <F4> | FLOW NORMAL DEPTH (ft) | CRIT. DEPTH (ft) | OUTLET DEPTH (ft) | TW DEPTH (ft) | OUTLET VEL. (fps) | TW VEL. (fps) |
|-----------------------|-----------------|------------------|-------------------|-------------------|------------------------|------------------|-------------------|---------------|-------------------|---------------|
| 0.00 | 4.00 | 0.00 | 1.58 | 0-NF | 0.00 | 0.00 | 0.00 | 2.65 | 0.00 | 0.00 |
| 4.49 | 4.27 | 1.19 | 1.85 | 3-M1f | 1.49 | 0.77 | 1.75 | 2.65 | 1.86 | 0.00 |
| 9.81 | 4.66 | 2.04 | 2.24 | 3-M1f | 1.75 | 1.16 | 1.75 | 2.65 | 4.08 | 0.00 |
| 14.56 | 5.50 | 3.08 | 2.83 | 3-M1f | 1.75 | 1.41 | 1.75 | 2.65 | 6.05 | 0.00 |
| 15.93 | 5.88 | 3.46 | 3.04 | 3-M1f | 1.75 | 1.46 | 1.75 | 2.65 | 6.62 | 0.00 |
| 16.51 | 6.06 | 3.64 | 3.14 | 3-M1f | 1.75 | 1.48 | 1.75 | 2.65 | 6.86 | 0.00 |
| 16.54 | 6.07 | 3.65 | 3.14 | 3-M1f | 1.75 | 1.48 | 1.75 | 2.65 | 6.88 | 0.00 |
| 16.64 | 6.10 | 3.68 | 3.16 | 3-M1f | 1.75 | 1.49 | 1.75 | 2.65 | 6.92 | 0.00 |
| 16.70 | 6.12 | 3.70 | 3.17 | 3-M1f | 1.75 | 1.49 | 1.75 | 2.65 | 6.94 | 0.00 |
| 16.75 | 6.13 | 3.71 | 3.18 | 3-M1f | 1.75 | 1.49 | 1.75 | 2.65 | 6.96 | 0.00 |
| 16.79 | 6.15 | 3.73 | 3.19 | 3-M1f | 1.75 | 1.49 | 1.75 | 2.65 | 6.98 | 0.00 |

El. inlet face invert 2.42 ft El. outlet invert 1.35 ft
 El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT *****

INLET STATION 0.00 ft
 INLET ELEVATION 2.42 ft
 OUTLET STATION 414.00 ft
 OUTLET ELEVATION 1.35 ft
 NUMBER OF BARRELS 1
 SLOPE (V/H) 0.0026
 CULVERT LENGTH ALONG SLOPE 414.00 ft

***** CULVERT DATA SUMMARY *****

BARREL SHAPE CIRCULAR
 BARREL DIAMETER 1.75 ft
 BARREL MATERIAL CORRUGATED STEEL
 BARREL MANNING'S n 0.024
 INLET TYPE CONVENTIONAL
 INLET EDGE AND WALL THIN EDGE PROJECTING
 INLET DEPRESSION NONE

PERFORMANCE CURVE FOR CULVERT 2 - 1(1.75 (ft) BY 1.75 (ft)) CSP

| DIS-CHARGE FLOW (cfs) | HEAD-ELEV. (ft) | INLET DEPTH (ft) | OUTLET DEPTH (ft) | CONTROL TYPE <F4> | FLOW NORMAL DEPTH (ft) | CRIT. DEPTH (ft) | OUTLET DEPTH (ft) | TW DEPTH (ft) | OUTLET VEL. (fps) | TW VEL. (fps) |
|-----------------------|-----------------|------------------|-------------------|-------------------|------------------------|------------------|-------------------|---------------|-------------------|---------------|
| 0.00 | 4.00 | 0.00 | 1.93 | 0-NF | 0.00 | 0.00 | 0.00 | 2.63 | 0.00 | 0.00 |
| 2.06 | 4.26 | 0.77 | 2.19 | 4-FFt | 0.96 | 0.52 | 1.75 | 2.63 | 0.86 | 0.00 |
| 3.30 | 4.66 | 0.99 | 2.59 | 4-FFt | 1.34 | 0.66 | 1.75 | 2.63 | 1.37 | 0.00 |
| 4.97 | 5.50 | 1.26 | 3.43 | 4-FFt | 1.75 | 0.81 | 1.75 | 2.63 | 2.06 | 0.00 |
| 5.56 | 5.88 | 1.36 | 3.81 | 4-FFt | 1.75 | 0.87 | 1.75 | 2.63 | 2.31 | 0.00 |
| 5.81 | 6.06 | 1.39 | 3.99 | 4-FFt | 1.75 | 0.89 | 1.75 | 2.63 | 2.42 | 0.00 |
| 5.83 | 6.07 | 1.40 | 4.00 | 4-FFt | 1.75 | 0.89 | 1.75 | 2.63 | 2.42 | 0.00 |
| 5.87 | 6.10 | 1.40 | 4.03 | 4-FFt | 1.75 | 0.89 | 1.75 | 2.63 | 2.44 | 0.00 |
| 5.90 | 6.12 | 1.41 | 4.05 | 4-FFt | 1.75 | 0.89 | 1.75 | 2.63 | 2.45 | 0.00 |
| 5.92 | 6.13 | 1.41 | 4.06 | 4-FFt | 1.75 | 0.89 | 1.75 | 2.63 | 2.46 | 0.00 |

Appendix E

JPP3.LST

PERFORMANCE CURVE FOR CULVERT 1 - 2(6.00 (ft) BY 2.00 (ft)) RCB

| DIS-CHARGE FLOW (cfs) | HEAD-ELEV. (ft) | INLET DEPTH (ft) | CONTROL DEPTH (ft) | OUTLET DEPTH (ft) | FLOW TYPE <F4> | NORMAL DEPTH (ft) | CRIT. DEPTH (ft) | OUTLET DEPTH (ft) | TW DEPTH (ft) | OUTLET VEL. (fps) | TW VEL. (fps) |
|-----------------------|-----------------|------------------|--------------------|-------------------|----------------|-------------------|------------------|-------------------|---------------|-------------------|---------------|
| 0.00 | 4.00 | 0.00 | 1.58 | 0-NF | 0.00 | 0.00 | 0.00 | 0.00 | 2.65 | 0.00 | 0.00 |
| 6.50 | 4.02 | 0.36 | 1.60 | 3-M1f | 0.24 | 0.21 | 2.00 | 2.65 | 0.27 | 0.00 | 0.00 |
| 13.00 | 4.13 | 0.57 | 1.71 | 3-M1f | 0.38 | 0.33 | 2.00 | 2.65 | 0.54 | 0.00 | 0.00 |
| 19.50 | 4.14 | 0.75 | 1.72 | 3-M1f | 0.49 | 0.44 | 2.00 | 2.65 | 0.81 | 0.00 | 0.00 |
| 26.00 | 4.12 | 0.90 | 1.70 | 3-M1f | 0.59 | 0.53 | 2.00 | 2.65 | 1.08 | 0.00 | 0.00 |
| 32.50 | 4.17 | 1.04 | 1.75 | 3-M1f | 0.68 | 0.61 | 2.00 | 2.65 | 1.35 | 0.00 | 0.00 |
| 35.00 | 4.28 | 1.10 | 1.86 | 3-M1f | 0.72 | 0.64 | 2.00 | 2.65 | 1.46 | 0.00 | 0.00 |
| 45.50 | 4.31 | 1.30 | 1.89 | 3-M1f | 0.85 | 0.77 | 2.00 | 2.65 | 1.90 | 0.00 | 0.00 |
| 52.00 | 4.41 | 1.42 | 1.99 | 3-M1f | 0.93 | 0.84 | 2.00 | 2.65 | 2.17 | 0.00 | 0.00 |
| 58.50 | 4.51 | 1.53 | 2.09 | 3-M1f | 1.01 | 0.91 | 2.00 | 2.65 | 2.44 | 0.00 | 0.00 |
| 65.00 | 4.59 | 1.64 | 2.17 | 3-M1f | 1.08 | 0.97 | 2.00 | 2.65 | 2.71 | 0.00 | 0.00 |

El. inlet face invert 2.42 ft El. outlet invert 1.35 ft
 El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT *****
 INLET STATION 0.00 ft
 INLET ELEVATION 2.42 ft
 OUTLET STATION 414.00 ft
 OUTLET ELEVATION 1.35 ft
 NUMBER OF BARRELS 2
 SLOPE (V/H) 0.0026
 CULVERT LENGTH ALONG SLOPE 414.00 ft

***** CULVERT DATA SUMMARY *****
 BARREL SHAPE BOX
 BARREL SPAN 6.00 ft
 BARREL RISE 2.00 ft
 BARREL MATERIAL CONCRETE
 BARREL MANNING'S n 0.013
 INLET TYPE CONVENTIONAL
 INLET EDGE AND WALL SQUARE EDGE (90-45 DEG.)
 INLET DEPRESSION NONE

***** TAILWATER *****

CONSTANT WATER SURFACE ELEVATION
 4.00

***** ROADWAY OVERTOPPING DATA *****

ROADWAY SURFACE PAVED
 EMBANKMENT TOP WIDTH 300.00 ft
 ***** USER DEFINED ROADWAY PROFILE *****
 CROSS-SECTION X Y

JPP3.LST

| COORD. NO. | ft | ft |
|------------|--------|-------|
| 1 | 0.00 | 12.00 |
| 2 | 140.00 | 7.00 |
| 3 | 260.00 | 6.00 |
| 4 | 495.00 | 6.00 |
| 5 | 690.00 | 7.00 |

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JPPNEW.LST

PERFORMANCE CURVE FOR CULVERT 1 - 2(3.00 (ft) BY 3.00 (ft)) RCP

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
DIS-      HEAD-   INLET   OUTLET
CHARGE    WATER CONTROL CONTROL FLOW NORMAL CRIT. OUTLET TW   OUTLET TW
FLOW      ELEV.  DEPTH  DEPTH  TYPE  DEPTH  DEPTH  DEPTH  DEPTH  VEL.  VEL.
(cfs)     (ft)   (ft)   (ft)  <F4> (ft)   (ft)   (ft)   (ft)   (ft) (fps) (fps)
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
0.00      4.00   0.00   2.00  0-NF  0.00   0.00   0.00   2.70  0.00  0.00
4.90      4.12   0.56   2.12  3-M1t 0.36   0.46   2.72  2.72  0.36  0.00
9.80      4.25   0.84   2.25  3-M1t 0.52   0.68   2.83  2.83  0.71  0.00
14.70     4.28   1.10   2.28  3-M1t 0.65   0.85   2.84  2.84  1.07  0.00
19.60     4.29   1.33   2.29  3-M1t 0.75   0.98   2.82  2.82  1.43  0.00
24.50     4.38   1.53   2.38  3-M1t 0.85   1.10   2.87  2.87  1.77  0.00
26.00     4.49   1.59   2.49  3-M1t 0.88   1.14   2.98  2.98  1.85  0.00
34.30     4.49   1.90   2.49  1-S1f 1.01   1.32   3.00  3.01  2.43  0.00
39.20     4.64   2.06   2.64  1-S1f 1.08   1.41   3.00  3.11  2.77  0.00
44.10     4.81   2.22   2.81  1-S1f 1.16   1.51   3.00  3.21  3.12  0.00
49.00     4.95   2.36   2.95  1-S1f 1.23   1.59   3.00  3.29  3.47  0.00
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

```

El. inlet face invert 2.00 ft El. outlet invert 1.30 ft

El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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***** SITE DATA ***** CULVERT INVERT *****

```

INLET STATION                0.00 ft
INLET ELEVATION              2.00 ft
OUTLET STATION               65.00 ft
OUTLET ELEVATION             1.30 ft
NUMBER OF BARRELS            2
SLOPE (V/H)                  0.0108
CULVERT LENGTH ALONG SLOPE  65.00 ft

```

***** CULVERT DATA SUMMARY *****

```

BARREL SHAPE      CIRCULAR
BARREL DIAMETER   3.00 ft
BARREL MATERIAL   CONCRETE
BARREL MANNING'S n 0.013
INLET TYPE        CONVENTIONAL
INLET EDGE AND WALL SQUARE EDGE WITH HEADWALL
INLET DEPRESSION  NONE

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TAILWATER RATING CURVE

| FLOW (cfs) | W.S.E. (ft) | DEPTH (ft) |
|------------|-------------|------------|
| 0 | 4.00 | 2.70 |
| 5 | 4.02 | 2.72 |
| 10 | 4.13 | 2.83 |
| 15 | 4.14 | 2.84 |
| 20 | 4.12 | 2.82 |
| 25 | 4.17 | 2.87 |
| 26 | 4.28 | 2.98 |
| 34 | 4.31 | 3.01 |
| 39 | 4.41 | 3.11 |

JPPNEW.LST

44 4.51 3.21
49 4.59 3.29

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AA ROADWAY OVERTOPPING DATA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

| | |
|-----------------------------|-----------|
| ROADWAY SURFACE | PAVED |
| EMBANKMENT TOP WIDTH | 20.00 ft |
| CREST LENGTH | 400.00 ft |
| OVERTOPPING CREST ELEVATION | 8.00 ft |

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JPP1.LST

PERFORMANCE CURVE FOR CULVERT 1 - 2(2.00 (ft) BY 2.00 (ft)) RCP

```

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
DIS-      HEAD-  INLET  OUTLET
CHARGE    WATER CONTROL CONTROL FLOW NORMAL CRIT. OUTLET  TW  OUTLET  TW
FLOW      ELEV.  DEPTH  DEPTH  TYPE  DEPTH  DEPTH  DEPTH  DEPTH  VEL.  VEL.
(cfs)     (ft)   (ft)   (ft)  <F4> (ft)   (ft)   (ft)   (ft)   (fps) (fps)
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
0.00      4.00   0.00   1.95 0-NF   0.00   0.00   0.00   2.72  0.00  0.00
3.30      4.13   0.55   2.08 4-FFt  0.32   0.44   2.00   2.84  0.53  0.00
6.60      4.28   0.84   2.23 4-FFt  0.46   0.63   2.00   2.97  1.05  0.00
9.90      4.35   1.08   2.30 4-FFt  0.58   0.78   2.00   3.00  1.58  0.00
13.20     4.42   1.28   2.37 4-FFt  0.67   0.91   2.00   3.01  2.10  0.00
16.50     4.58   1.45   2.53 4-FFt  0.75   1.02   2.00   3.10  2.63  0.00
17.00     4.70   1.48   2.65 4-FFt  0.77   1.04   2.00   3.21  2.71  0.00
23.10     4.88   1.77   2.83 4-FFt  0.91   1.22   2.00   3.21  3.68  0.00
26.40     5.15   1.92   3.10 4-FFt  0.98   1.30   2.00   3.36  4.20  0.00
29.70     5.46   2.08   3.41 4-FFt  1.06   1.39   2.00   3.53  4.73  0.00
33.00     5.75   2.24   3.70 4-FFt  1.13   1.46   2.00   3.67  5.25  0.00
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

```

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El. inlet face invert      2.05 ft  El. outlet invert      1.28 ft
El. inlet throat invert    0.00 ft  El. inlet crest        0.00 ft

```

```

***** SITE DATA ***** CULVERT INVERT *****
INLET STATION                0.00 ft
INLET ELEVATION              2.05 ft
OUTLET STATION               54.00 ft
OUTLET ELEVATION             1.28 ft
NUMBER OF BARRELS            2
SLOPE (V/H)                  0.0143
CULVERT LENGTH ALONG SLOPE  54.01 ft

```

```

***** CULVERT DATA SUMMARY *****
BARREL SHAPE                  CIRCULAR
BARREL DIAMETER               2.00 ft
BARREL MATERIAL               CONCRETE
BARREL MANNING'S n           0.013
INLET TYPE                    CONVENTIONAL
INLET EDGE AND WALL           GROOVED END PROJECTION
INLET DEPRESSION              NONE

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TAILWATER RATING CURVE

| FLOW (cfs) | W.S.E. (ft) | DEPTH (ft) |
|------------|-------------|------------|
| 0 | 4.00 | 2.72 |
| 3 | 4.12 | 2.84 |
| 7 | 4.25 | 2.97 |
| 10 | 4.28 | 3.00 |
| 13 | 4.29 | 3.01 |
| 17 | 4.38 | 3.10 |
| 17 | 4.49 | 3.21 |
| 23 | 4.49 | 3.21 |
| 26 | 4.64 | 3.36 |

JPP1.LST

30 4.81 3.53
33 4.95 3.67

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AA ROADWAY OVERTOPPING DATA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

| | |
|-----------------------------|-----------|
| ROADWAY SURFACE | PAVED |
| EMBANKMENT TOP WIDTH | 17.00 ft |
| CREST LENGTH | 300.00 ft |
| OVERTOPPING CREST ELEVATION | 6.00 ft |

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Appendix F

Routing for existing culvert 1,
no fields, 1-24" RCP

*****80-80 LIST OF INPUT DATA FOR TR-20 HYDROLOGY*****

```

JOB TR-20          ECON          SUMMARY  NOPLOTS
TITLE 004 JONES POINT PARK EXISTING CONDITIONS
TITLE 000 FILENAME: JPPCLOG.dat  9/7/05  BY: TLH
 3 STRUCT      01
 8              2.75      0.0      0.0000
 8              3.00      4.1      0.0003
 8              3.25      5.9      0.0088
 8              3.50      8.0      0.0255
 8              3.75      9.6      0.0504
 8              4.00     11.2     0.0863
 8              4.25     12.8     0.1669
 8              4.50     14.3     0.3335
 8              4.75     15.8     0.5501
 9 ENDTBL
 6 RUNOFF 1      01      1 0.0118      83.0      0.20      1 1 1 1 1 1  DA-1 D
 6 RESVOR 2      01 1  2 2.75          1 1 1 1 1 1
 6 RUNOFF 1      01      3 0.0118      83.0      0.20      1 1 1 1 1 1  DA-1 D
 6 ADDHYD 4      01 2 3 4
  ENDDATA
 7 INCREM 6          0.05
 7 COMPUT 7      01      01 0.00      3.11      1.00      2 2  1  2  2-YR
  ENDCMP 1
 7 COMPUT 7      01      01 0.00      4.00      1.00      2 2  1  5  5-YR
  ENDCMP 1
 7 COMPUT 7      01      01 0.00      4.78      1.00      2 2  1 10 10-YR
  ENDCMP 1
 7 COMPUT 7      01      01 0.00      5.99      1.00      2 2  1 25 25-YR
  ENDCMP 1
 7 COMPUT 7      01      01 0.00      7.05      1.00      2 2  1 50 50-YR
  ENDCMP 1
 7 COMPUT 7      01      01 0.00      8.26      1.00      2 2  1 99 100-YR
  ENDCMP 1
  ENDJOB 2

```

*****END OF 80-80 LIST*****

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS VERSION
 09/08/** FILENAME: JPPCLOG.dat 9/7/05 BY: TLH 2.04TEST
 11:52:48 PASS 1 JOB NO. 1 PAGE 1

EXECUTIVE CONTROL INCREM MAIN TIME INCREMENT = .050 HOURS

EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 2-YR
 STARTING TIME = .00 RAIN DEPTH = 3.11 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. = 2 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.02 15.1 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 2
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| HRS | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV |
|-------|-------|------|-------|------|-------|------|------|------|------|------|
| 11.20 | .48 | 2.78 | .52 | 2.78 | .56 | 2.78 | .61 | 2.79 | .66 | 2.79 |
| 11.20 | | | | | | | | | | |
| 11.20 | | | | | | | | | | |
| 11.60 | 1.15 | 2.82 | 1.62 | 2.85 | 2.42 | 2.90 | 3.52 | 3.13 | 5.02 | 7.12 |
| 11.60 | | | | | | | | | | |
| 11.60 | | | | | | | | | | |
| 12.00 | 15.02 | 4.62 | 14.62 | 4.55 | 12.02 | 4.13 | 8.71 | 6.09 | 4.58 | 3.67 |
| 12.00 | | | | | | | | | | |
| 12.00 | | | | | | | | | | |
| 12.40 | 2.71 | 2.92 | 2.41 | 2.90 | 2.16 | 2.88 | 1.94 | 1.77 | 1.63 | 1.53 |
| 12.40 | | | | | | | | | | |
| 12.40 | | | | | | | | | | |
| 12.80 | 1.40 | 2.84 | 1.35 | 2.83 | 1.30 | 2.83 | 1.26 | 2.82 | 1.21 | 2.82 |
| 12.80 | | | | | | | | | | |
| 12.80 | | | | | | | | | | |
| 13.20 | 1.06 | 2.81 | 1.04 | 2.81 | 1.01 | 2.81 | .99 | 2.81 | .96 | 2.81 |
| 13.20 | | | | | | | | | | |
| 13.20 | | | | | | | | | | |
| 13.60 | .87 | 2.80 | .85 | 2.80 | .83 | 2.80 | .81 | 2.80 | .79 | 2.80 |
| 13.60 | | | | | | | | | | |
| 13.60 | | | | | | | | | | |
| 14.00 | .72 | 2.79 | .70 | 2.79 | .69 | 2.79 | .68 | 2.79 | .67 | 2.79 |
| 14.00 | | | | | | | | | | |
| 14.00 | | | | | | | | | | |
| 14.40 | .64 | 2.79 | .63 | 2.79 | .63 | 2.79 | .62 | 2.79 | .61 | 2.79 |
| 14.40 | | | | | | | | | | |
| 14.40 | | | | | | | | | | |
| 14.80 | .59 | 2.79 | .59 | 2.79 | .58 | 2.79 | .57 | 2.79 | .56 | 2.79 |
| 14.80 | | | | | | | | | | |
| 14.80 | | | | | | | | | | |
| 15.20 | .54 | 2.78 | .54 | 2.78 | .53 | 2.78 | .53 | 2.78 | .52 | 2.78 |
| 15.20 | | | | | | | | | | |
| 15.20 | | | | | | | | | | |
| 15.60 | .49 | 2.78 | .49 | 2.78 | .49 | 2.78 | .49 | 2.78 | .49 | 2.78 |
| 15.60 | | | | | | | | | | |
| 15.60 | | | | | | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 1.53 WATERSHED INCHES; 12 CFS-HRS; 1.0 ACRE-FEET.

DURATION(HRS) 2 4 4
 FLOW(CFS) 1 1 0

--- STRUCTURE 1, ALTERNATE 1, STORM 2, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.11 | 11.1 | 3.99 |
| 12.50 | 2.9 | 2.93 |
| 12.60 | 2.4 | 2.90 |
| 12.70 | 2.1 | 2.88 |
| 12.80 | 1.9 | 2.86 |
| 12.90 | 1.7 | 2.85 |
| 13.00 | 1.6 | 2.85 |
| 13.10 | 1.4 | 2.84 |
| 13.20 | 1.3 | 2.83 |
| 13.30 | 1.2 | 2.83 |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 2
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|------------|------|------|------|-------|-------|-------|-------|------|
| 8.70 CFS | .00 | .01 | .01 | .01 | .02 | .02 | .02 | .03 |
| 8.70 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 9.10 CFS | .03 | .03 | .04 | .04 | .04 | .05 | .05 | .05 |
| 9.10 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 9.50 CFS | .06 | .06 | .06 | .07 | .07 | .08 | .08 | .09 |
| 9.50 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.76 | 2.76 |
| 9.90 CFS | .09 | .10 | .11 | .11 | .12 | .13 | .14 | .14 |
| 9.90 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 10.30 CFS | .15 | .16 | .17 | .18 | .19 | .21 | .22 | .23 |
| 10.30 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 10.70 CFS | .25 | .26 | .28 | .30 | .32 | .34 | .36 | .38 |
| 10.70 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 11.10 CFS | .41 | .44 | .48 | .52 | .56 | .61 | .66 | .71 |
| 11.10 ELEV | 2.77 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 |
| 11.50 CFS | .77 | .89 | 1.15 | 1.61 | 2.40 | 3.49 | 4.38 | 5.41 |
| 11.50 ELEV | 2.80 | 2.80 | 2.82 | 2.85 | 2.90 | 2.96 | 3.04 | 3.18 |
| 11.90 CFS | 6.91 | 8.53 | 9.78 | 10.63 | 11.08 | 10.96 | 10.36 | 9.48 |
| 11.90 ELEV | 3.37 | 3.58 | 3.78 | 3.91 | 3.98 | 3.96 | 3.87 | 3.73 |
| 12.30 CFS | 8.22 | 6.40 | 4.51 | 1.64 | 2.89 | 1.27 | 2.40 | 1.04 |
| 12.30 ELEV | 3.54 | 3.31 | 3.06 | 2.85 | 2.93 | 2.83 | 2.90 | 2.81 |
| 12.70 CFS | 2.08 | .95 | 1.87 | .91 | 1.71 | .87 | 1.57 | .84 |
| 12.70 ELEV | 2.88 | 2.81 | 2.86 | 2.81 | 2.85 | 2.80 | 2.85 | 2.80 |
| 13.10 CFS | 1.44 | .81 | 1.33 | .78 | 1.24 | .77 | 1.16 | .75 |
| 13.10 ELEV | 2.84 | 2.80 | 2.83 | 2.80 | 2.83 | 2.80 | 2.82 | 2.80 |
| 13.50 CFS | 1.09 | .73 | 1.02 | .70 | .96 | .69 | .91 | .67 |
| 13.50 ELEV | 2.82 | 2.79 | 2.81 | 2.79 | 2.81 | 2.79 | 2.81 | 2.79 |
| 13.90 CFS | .86 | .65 | .81 | .62 | .77 | .61 | .73 | .60 |
| 13.90 ELEV | 2.80 | 2.79 | 2.80 | 2.79 | 2.80 | 2.79 | 2.79 | 2.79 |
| 14.30 CFS | .71 | .59 | .69 | .59 | .67 | .58 | .65 | .57 |
| 14.30 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 14.70 CFS | .64 | .57 | .62 | .56 | .60 | .55 | .59 | .54 |
| 14.70 ELEV | 2.79 | 2.78 | 2.79 | 2.78 | 2.79 | 2.78 | 2.79 | 2.78 |
| 15.10 CFS | .57 | .53 | .56 | .52 | .54 | .51 | .53 | .50 |

TR20

SCS -

09/08/** JONES POINT PARK EXISTING CONDITIONS VERSION
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PASS 1 JOB NO. 1 PAGE 3

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 15.10 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.50 | CFS | .52 | .49 | .50 | .48 | .49 | .47 | .48 | .46 |
| 15.50 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.90 | CFS | .46 | .45 | .45 | .43 | .44 | .42 | .43 | .42 |
| 15.90 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 16.30 | CFS | .42 | .41 | .42 | .41 | .41 | .41 | .41 | .40 |
| 16.30 | ELEV | 2.78 | 2.78 | 2.78 | 2.77 | 2.78 | 2.77 | 2.77 | 2.77 |
| 16.70 | CFS | .40 | .40 | .40 | .39 | .39 | .39 | .39 | .39 |
| 16.70 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 17.10 | CFS | .39 | .38 | .38 | .38 | .38 | .37 | .37 | .37 |
| 17.10 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 17.50 | CFS | .37 | .36 | .36 | .36 | .36 | .36 | .35 | .35 |
| 17.50 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 17.90 | CFS | .35 | .35 | .35 | .34 | .34 | .34 | .34 | .33 |
| 17.90 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 18.30 | CFS | .33 | .33 | .33 | .32 | .32 | .32 | .32 | .32 |
| 18.30 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 18.70 | CFS | .31 | .31 | .31 | .31 | .30 | .30 | .30 | .30 |
| 18.70 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 19.10 | CFS | .30 | .29 | .29 | .29 | .29 | .28 | .28 | .28 |
| 19.10 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 19.50 | CFS | .28 | .27 | .27 | .27 | .27 | .27 | .26 | .26 |
| 19.50 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 19.90 | CFS | .26 | .26 | .25 | .25 | .25 | .25 | .25 | .25 |
| 19.90 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 20.30 | CFS | .25 | .25 | .24 | .24 | .24 | .24 | .24 | .24 |
| 20.30 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 20.70 | CFS | .24 | .24 | .24 | .24 | .24 | .24 | .24 | .24 |
| 20.70 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 21.10 | CFS | .24 | .24 | .24 | .24 | .24 | .24 | .24 | .24 |
| 21.10 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 21.50 | CFS | .24 | .23 | .23 | .23 | .23 | .23 | .23 | .23 |
| 21.50 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 21.90 | CFS | .23 | .23 | .23 | .23 | .23 | .23 | .23 | .23 |
| 21.90 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 22.30 | CFS | .23 | .23 | .23 | .23 | .23 | .23 | .23 | .23 |
| 22.30 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 22.70 | CFS | .22 | .22 | .22 | .22 | .22 | .22 | .22 | .22 |
| 22.70 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 23.10 | CFS | .22 | .22 | .22 | .22 | .22 | .22 | .22 | .22 |
| 23.10 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 23.50 | CFS | .22 | .22 | .22 | .22 | .22 | .22 | .22 | .21 |
| 23.50 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 23.90 | CFS | .21 | .21 | .21 | .20 | .16 | .10 | .05 | .03 |
| 23.90 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.75 | 2.75 |
| 24.30 | CFS | .02 | .01 | .00 | | | | | |
| 24.30 | ELEV | 2.75 | 2.75 | 2.75 | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 1.51 WATERSHED INCHES; 11 CFS-HRS; .9 ACRE-FEET.

DURATION(HRS) 2 4 4
 FLOW(CFS) 1 1 0

--- STRUCTURE 1, ALTERNATE 1, STORM 2, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.02 PEAK DISCHARGE(CFS) 15.1 PEAK ELEVATION(FEET)
 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 2
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|------------|-------|-------|-------|------|------|------|-------|-------|
| 11.20 CFS | .48 | .52 | .56 | .61 | .66 | .71 | .77 | .89 |
| 11.20 ELEV | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 |
| 11.60 CFS | 1.15 | 1.62 | 2.42 | 3.52 | 5.02 | 7.12 | 10.23 | 13.34 |
| 11.60 ELEV | 2.82 | 2.85 | 2.90 | 2.96 | 3.13 | 3.40 | 3.85 | 4.34 |
| 12.00 CFS | 15.02 | 14.62 | 12.02 | 8.71 | 6.09 | 4.58 | 3.67 | 3.10 |
| 12.00 ELEV | 4.62 | 4.55 | 4.13 | 3.61 | 3.27 | 3.07 | 2.97 | 2.94 |
| 12.40 CFS | 2.71 | 2.41 | 2.16 | 1.94 | 1.77 | 1.63 | 1.53 | 1.46 |
| 12.40 ELEV | 2.92 | 2.90 | 2.88 | 2.87 | 2.86 | 2.85 | 2.84 | 2.84 |
| 12.80 CFS | 1.40 | 1.35 | 1.30 | 1.26 | 1.21 | 1.17 | 1.13 | 1.09 |
| 12.80 ELEV | 2.84 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 |
| 13.20 CFS | 1.06 | 1.04 | 1.01 | .99 | .96 | .94 | .91 | .89 |
| 13.20 ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 |
| 13.60 CFS | .87 | .85 | .83 | .81 | .79 | .77 | .76 | .74 |
| 13.60 ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 14.00 CFS | .72 | .70 | .69 | .68 | .67 | .66 | .65 | .65 |
| 14.00 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 14.40 CFS | .64 | .63 | .63 | .62 | .61 | .61 | .60 | .60 |
| 14.40 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 14.80 CFS | .59 | .59 | .58 | .57 | .57 | .56 | .56 | .55 |
| 14.80 ELEV | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.20 CFS | .54 | .54 | .53 | .53 | .52 | .51 | .51 | .50 |
| 15.20 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.60 CFS | .49 | | | | | | | |
| 15.60 ELEV | 2.78 | | | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 1.53 WATERSHED INCHES; 12 CFS-HRS; 1.0 ACRE-FEET.

DURATION(HRS) 2 4 4
 FLOW(CFS) 1 1 0

--- STRUCTURE 1, ALTERNATE 1, STORM 2, HYDROGRAPH ADDED TO READHD FILE ---

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS VERSION
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EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 1

EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 5-YR
 STARTING TIME = .00 RAIN DEPTH = 4.00 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. = 5 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.01 22.4 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 5
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| HRS | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.65 | .48 | 2.78 | .51 | 2.78 | .54 | 2.78 | .57 | 2.78 | .60 | 2.79 |
| 10.65 | .73 | 2.79 | .78 | 2.80 | .82 | 2.80 | .89 | 2.81 | .95 | 2.81 |
| 11.05 | 1.27 | 2.83 | 1.36 | 2.83 | 1.54 | 2.84 | 2.00 | 2.87 | 2.79 | 3.00 |
| 11.45 | 2.79 | 2.83 | 2.80 | 2.83 | 2.80 | 2.84 | 2.80 | 2.87 | 2.92 | 3.23 |
| 11.85 | 2.83 | 2.83 | 2.83 | 2.83 | 2.84 | 2.84 | 2.87 | 2.87 | 2.92 | 3.23 |
| 12.25 | 11.13 | 15.74 | 15.74 | 20.22 | 20.22 | 22.31 | 22.31 | 21.41 | 17.57 | 12.71 |
| 12.25 | 3.99 | 4.74 | 4.74 | 5.49 | 5.49 | 5.84 | 5.84 | 5.68 | 5.04 | 4.24 |
| 12.25 | 6.61 | 5.28 | 5.28 | 4.45 | 4.45 | 3.87 | 3.87 | 3.43 | 3.06 | 2.76 |
| 12.25 | 3.33 | 3.16 | 3.16 | 3.05 | 3.05 | 2.99 | 2.99 | 2.96 | 2.94 | 2.92 |
| 12.65 | 2.31 | 2.16 | 2.16 | 2.06 | 2.06 | 1.98 | 1.98 | 1.90 | 1.83 | 1.77 |
| 12.65 | 2.89 | 2.88 | 2.88 | 2.88 | 2.88 | 2.87 | 2.87 | 2.87 | 2.86 | 2.86 |
| 13.05 | 1.65 | 1.59 | 1.59 | 1.54 | 1.54 | 1.49 | 1.49 | 1.45 | 1.42 | 1.38 |
| 13.05 | 2.85 | 2.85 | 2.85 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 |
| 13.45 | 1.32 | 1.28 | 1.28 | 1.25 | 1.25 | 1.22 | 1.22 | 1.19 | 1.16 | 1.13 |
| 13.45 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 13.85 | 1.08 | 1.06 | 1.06 | 1.03 | 1.03 | 1.01 | 1.01 | .99 | .96 | .95 |
| 13.85 | 2.82 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 14.25 | .92 | .91 | .91 | .90 | .90 | .89 | .89 | .88 | .87 | .87 |
| 14.25 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 14.65 | .85 | .84 | .84 | .83 | .83 | .82 | .82 | .82 | .81 | .80 |
| 14.65 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 15.05 | .78 | .77 | .77 | .76 | .76 | .76 | .76 | .75 | .74 | .73 |
| 15.05 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.79 |
| 15.45 | .71 | .70 | .70 | .70 | .69 | .69 | .69 | .68 | .67 | .66 |
| 15.45 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 15.85 | .64 | .63 | .63 | .63 | .62 | .62 | .62 | .61 | .60 | .59 |
| 15.85 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.25 | .59 | .58 | .58 | .58 | .58 | .58 | .58 | .57 | .57 | .57 |
| 16.25 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 |
| 16.65 | .56 | .56 | .56 | .55 | .55 | .55 | .55 | .55 | .54 | .54 |

TR20 ----- SCS -
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| | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|
| 16.65 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.05 CFS | .54 | .53 | .53 | .53 | .52 | .52 | .52 | .51 |
| 17.05 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.45 CFS | .51 | .51 | .50 | .50 | .50 | | | |
| 17.45 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.28 WATERSHED INCHES; 17 CFS-HRS; 1.4 ACRE-FEET.

| | | | | |
|---------------|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 7 |
| FLOW(CFS) | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 5, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.15 | 13.0 | 4.29 |
| 12.70 | 3.5 | 2.96 |
| 12.80 | 3.1 | 2.94 |
| 12.90 | 2.8 | 2.92 |
| 13.00 | 2.6 | 2.91 |
| 13.10 | 2.3 | 2.89 |
| 13.20 | 2.1 | 2.88 |
| 13.30 | 2.0 | 2.87 |
| 13.40 | 1.8 | 2.86 |
| 13.50 | 1.7 | 2.85 |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 5
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|
| 7.40 CFS | .00 | .01 | .01 | .01 | .01 | .02 | .02 | .02 |
| 7.40 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 7.80 CFS | .02 | .03 | .03 | .03 | .04 | .04 | .04 | .04 |
| 7.80 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 8.20 CFS | .05 | .05 | .05 | .06 | .06 | .07 | .07 | .08 |
| 8.20 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 8.60 CFS | .08 | .09 | .09 | .10 | .10 | .11 | .12 | .12 |
| 8.60 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 9.00 CFS | .13 | .13 | .14 | .15 | .15 | .16 | .16 | .17 |
| 9.00 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 9.40 CFS | .17 | .18 | .18 | .19 | .19 | .20 | .21 | .21 |
| 9.40 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 9.80 CFS | .22 | .23 | .24 | .25 | .27 | .28 | .29 | .30 |
| 9.80 ELEV | 2.76 | 2.76 | 2.76 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 10.20 CFS | .32 | .33 | .35 | .37 | .38 | .40 | .42 | .44 |
| 10.20 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 |
| 10.60 CFS | .46 | .48 | .51 | .54 | .57 | .60 | .63 | .66 |
| 10.60 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 |
| 11.00 CFS | .70 | .73 | .77 | .82 | .88 | .95 | 1.03 | 1.10 |
| 11.00 ELEV | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.81 | 2.81 | 2.82 |

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SCS -

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| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.40 | CFS | 1.18 | 1.27 | 1.36 | 1.54 | 1.99 | 2.77 | 4.03 | 4.62 |
| 11.40 | ELEV | 2.82 | 2.83 | 2.83 | 2.84 | 2.87 | 2.92 | 3.00 | 3.07 |
| 11.80 | CFS | 5.98 | 7.47 | 9.10 | 10.73 | 11.81 | 12.60 | 12.96 | 13.04 |
| 11.80 | ELEV | 3.26 | 3.44 | 3.67 | 3.93 | 4.10 | 4.22 | 4.28 | 4.29 |
| 12.20 | CFS | 12.96 | 12.73 | 12.19 | 11.62 | 10.83 | 9.62 | 8.14 | 6.08 |
| 12.20 | ELEV | 4.28 | 4.24 | 4.16 | 4.07 | 3.94 | 3.75 | 3.52 | 3.27 |
| 12.60 | CFS | 4.00 | .92 | 3.46 | .85 | 3.10 | .86 | 2.81 | .86 |
| 12.60 | ELEV | 2.99 | 2.81 | 2.96 | 2.80 | 2.94 | 2.80 | 2.92 | 2.80 |
| 13.00 | CFS | 2.55 | .86 | 2.32 | .85 | 2.13 | .86 | 1.97 | .87 |
| 13.00 | ELEV | 2.91 | 2.80 | 2.89 | 2.80 | 2.88 | 2.80 | 2.87 | 2.80 |
| 13.40 | CFS | 1.83 | .87 | 1.70 | .86 | 1.58 | .85 | 1.47 | .84 |
| 13.40 | ELEV | 2.86 | 2.80 | 2.85 | 2.80 | 2.85 | 2.80 | 2.84 | 2.80 |
| 13.80 | CFS | 1.38 | .83 | 1.29 | .81 | 1.21 | .79 | 1.14 | .78 |
| 13.80 | ELEV | 2.83 | 2.80 | 2.83 | 2.80 | 2.82 | 2.80 | 2.82 | 2.80 |
| 14.20 | CFS | 1.09 | .78 | 1.04 | .78 | 1.01 | .77 | .98 | .77 |
| 14.20 | ELEV | 2.82 | 2.80 | 2.81 | 2.80 | 2.81 | 2.80 | 2.81 | 2.80 |
| 14.60 | CFS | .95 | .77 | .92 | .76 | .89 | .75 | .86 | .75 |
| 14.60 | ELEV | 2.81 | 2.80 | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 15.00 | CFS | .84 | .74 | .82 | .72 | .79 | .71 | .77 | .70 |
| 15.00 | ELEV | 2.80 | 2.79 | 2.80 | 2.79 | 2.80 | 2.79 | 2.80 | 2.79 |
| 15.40 | CFS | .75 | .69 | .73 | .67 | .71 | .66 | .69 | .64 |
| 15.40 | ELEV | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 15.80 | CFS | .67 | .63 | .65 | .61 | .63 | .60 | .61 | .59 |
| 15.80 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.20 | CFS | .60 | .58 | .59 | .57 | .58 | .57 | .58 | .56 |
| 16.20 | ELEV | 2.79 | 2.79 | 2.79 | 2.78 | 2.79 | 2.78 | 2.79 | 2.78 |
| 16.60 | CFS | .57 | .56 | .56 | .55 | .55 | .54 | .55 | .54 |
| 16.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.00 | CFS | .54 | .53 | .53 | .53 | .53 | .52 | .52 | .52 |
| 17.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.40 | CFS | .52 | .51 | .51 | .50 | .50 | .50 | .50 | .49 |
| 17.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.80 | CFS | .49 | .49 | .48 | .48 | .48 | .47 | .47 | .47 |
| 17.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.20 | CFS | .46 | .46 | .46 | .45 | .45 | .45 | .45 | .44 |
| 18.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.60 | CFS | .44 | .44 | .43 | .43 | .43 | .42 | .42 | .42 |
| 18.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 19.00 | CFS | .41 | .41 | .41 | .40 | .40 | .40 | .39 | .39 |
| 19.00 | ELEV | 2.78 | 2.78 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 19.40 | CFS | .39 | .38 | .38 | .38 | .38 | .37 | .37 | .37 |
| 19.40 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 19.80 | CFS | .36 | .36 | .36 | .35 | .35 | .35 | .34 | .34 |
| 19.80 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 20.20 | CFS | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 |
| 20.20 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 20.60 | CFS | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 |
| 20.60 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 21.00 | CFS | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 |

TR20 ----- SCS -
 09/08/** JONES POINT PARK EXISTING CONDITIONS VERSION
 11:52:48 FILENAME: JPPCLOG.dat 9/7/05 BY: TLH 2.04TEST
 PASS 2 JOB NO. 1 PAGE 8

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 21.00 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 21.40 | CFS | .32 | .32 | .32 | .32 | .32 | .32 | .32 | .32 |
| 21.40 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 21.80 | CFS | .32 | .32 | .32 | .32 | .32 | .32 | .32 | .32 |
| 21.80 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 22.20 | CFS | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 |
| 22.20 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 22.60 | CFS | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 |
| 22.60 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 23.00 | CFS | .31 | .30 | .30 | .30 | .30 | .30 | .30 | .30 |
| 23.00 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 23.40 | CFS | .30 | .30 | .30 | .30 | .30 | .30 | .30 | .30 |
| 23.40 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 23.80 | CFS | .30 | .29 | .29 | .29 | .29 | .27 | .22 | .14 |
| 23.80 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.76 | 2.76 |
| 24.20 | CFS | .07 | .04 | .02 | .01 | .01 | .00 | | |
| 24.20 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.33 WATERSHED INCHES; 18 CFS-HRS; 1.5 ACRE-FEET.

| | | | | |
|---------------|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 7 |
| FLOW(CFS) | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 5, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.01 PEAK DISCHARGE(CFS) 22.4 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 5
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HRS | 10.65 | 11.05 | 11.05 | 11.45 | 11.45 | 11.85 | 11.85 | 12.25 | 12.25 | 12.65 | 12.65 | 13.05 | 13.05 | 13.45 | 13.45 | 13.85 |
| CFS | .48 | .73 | .78 | 1.27 | 2.83 | 11.13 | 3.99 | 6.61 | 3.33 | 2.31 | 2.89 | 1.65 | 2.85 | 1.32 | 2.83 | 1.08 |
| ELEV | .51 | .78 | .82 | 1.36 | 2.83 | 15.74 | 4.74 | 5.28 | 3.16 | 2.16 | 2.88 | 1.59 | 2.85 | 1.28 | 2.83 | 1.06 |
| CFS | .54 | .82 | .89 | 1.54 | 2.84 | 20.22 | 5.49 | 4.45 | 3.05 | 2.06 | 2.88 | 1.54 | 2.84 | 1.25 | 2.83 | 1.03 |
| ELEV | .57 | .89 | .95 | 2.00 | 2.87 | 22.31 | 5.84 | 3.87 | 2.99 | 1.98 | 2.87 | 1.49 | 2.84 | 1.22 | 2.82 | 1.01 |
| CFS | .60 | 1.03 | 1.10 | 2.79 | 2.92 | 21.41 | 5.68 | 3.43 | 2.96 | 1.90 | 2.87 | 1.45 | 2.84 | 1.19 | 2.82 | .99 |
| ELEV | .63 | 1.10 | 1.19 | 4.05 | 3.00 | 17.57 | 5.04 | 3.06 | 2.94 | 1.83 | 2.86 | 1.42 | 2.84 | 1.16 | 2.82 | .96 |
| CFS | .66 | 1.19 | 1.29 | 5.77 | 3.23 | 12.71 | 4.24 | 2.76 | 2.92 | 1.77 | 2.86 | 1.38 | 2.83 | 1.13 | 2.82 | .95 |
| ELEV | .70 | 1.29 | 1.35 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| CFS | .70 | 1.35 | 1.42 | 8.05 | 3.51 | 8.86 | 3.63 | 2.50 | 2.90 | 1.71 | 2.85 | 1.35 | 2.83 | 1.11 | 2.82 | .93 |
| ELEV | .70 | 1.35 | 1 | | | | | | | | | | | | | |

TR20 ----- SCS -
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 11:52:48 FILENAME: JPPCLOG.dat 9/7/05 BY: TLH 2.04TEST
 PASS 2 JOB NO. 1 PAGE 9

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 13.85 | ELEV | 2.82 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 14.25 | CFS | .92 | .91 | .90 | .89 | .88 | .87 | .87 | .86 |
| 14.25 | ELEV | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 14.65 | CFS | .85 | .84 | .83 | .82 | .82 | .81 | .80 | .79 |
| 14.65 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 15.05 | CFS | .78 | .77 | .76 | .76 | .75 | .74 | .73 | .72 |
| 15.05 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 |
| 15.45 | CFS | .71 | .70 | .70 | .69 | .68 | .67 | .66 | .65 |
| 15.45 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 15.85 | CFS | .64 | .63 | .63 | .62 | .61 | .60 | .59 | .59 |
| 15.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.25 | CFS | .59 | .58 | .58 | .58 | .57 | .57 | .57 | .56 |
| 16.25 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 |
| 16.65 | CFS | .56 | .56 | .55 | .55 | .55 | .54 | .54 | .54 |
| 16.65 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.05 | CFS | .54 | .53 | .53 | .53 | .52 | .52 | .52 | .51 |
| 17.05 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.45 | CFS | .51 | .51 | .50 | .50 | .50 | | | |
| 17.45 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.28 WATERSHED INCHES; 17 CFS-HRS; 1.4 ACRE-FEET.

| | | | | |
|---------------|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 7 |
| FLOW(CFS) | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 5, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 2

EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 10-YR
 STARTING TIME = .00 RAIN DEPTH = 4.78 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =10 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.01 | 29.0 | (RUNOFF) |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =10
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.
 10.15 CFS .48 .50 .52 .55 .57 .60 .62 .65
 10.15 ELEV 2.78 2.78 2.78 2.78 2.78 2.79 2.79 2.79
 10.55 CFS .67 .70 .73 .77 .81 .85 .89 .93
 10.55 ELEV 2.79 2.79 2.79 2.80 2.80 2.80 2.80 2.81

| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.95 | CFS | .98 | 1.03 | 1.08 | 1.13 | 1.20 | 1.29 | 1.38 | 1.48 |
| 10.95 | ELEV | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 | 2.83 | 2.83 | 2.84 |
| 11.35 | CFS | 1.58 | 1.69 | 1.81 | 1.93 | 2.17 | 2.80 | 3.87 | 5.59 |
| 11.35 | ELEV | 2.85 | 2.85 | 2.86 | 2.87 | 2.88 | 2.92 | 2.99 | 3.21 |
| 11.75 | CFS | 7.88 | 10.88 | 14.86 | 20.76 | 26.42 | 28.93 | 27.59 | 22.55 |
| 11.75 | ELEV | 3.49 | 3.95 | 4.59 | 5.58 | 6.52 | 6.94 | 6.72 | 5.87 |
| 12.15 | CFS | 16.27 | 11.30 | 8.41 | 6.70 | 5.64 | 4.89 | 4.33 | 3.86 |
| 12.15 | ELEV | 4.83 | 4.02 | 3.56 | 3.34 | 3.21 | 3.11 | 3.03 | 2.99 |
| 12.55 | CFS | 3.47 | 3.15 | 2.90 | 2.72 | 2.59 | 2.48 | 2.39 | 2.30 |
| 12.55 | ELEV | 2.96 | 2.94 | 2.93 | 2.92 | 2.91 | 2.90 | 2.90 | 2.89 |
| 12.95 | CFS | 2.22 | 2.14 | 2.06 | 1.99 | 1.93 | 1.87 | 1.82 | 1.78 |
| 12.95 | ELEV | 2.89 | 2.88 | 2.88 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 |
| 13.35 | CFS | 1.73 | 1.69 | 1.65 | 1.60 | 1.56 | 1.52 | 1.48 | 1.45 |
| 13.35 | ELEV | 2.86 | 2.85 | 2.85 | 2.85 | 2.85 | 2.84 | 2.84 | 2.84 |
| 13.75 | CFS | 1.42 | 1.38 | 1.35 | 1.32 | 1.29 | 1.26 | 1.23 | 1.20 |
| 13.75 | ELEV | 2.84 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 |
| 14.15 | CFS | 1.18 | 1.16 | 1.15 | 1.14 | 1.12 | 1.11 | 1.10 | 1.09 |
| 14.15 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 14.55 | CFS | 1.08 | 1.07 | 1.06 | 1.05 | 1.04 | 1.03 | 1.02 | 1.01 |
| 14.55 | ELEV | 2.82 | 2.82 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 14.95 | CFS | 1.00 | .99 | .97 | .96 | .95 | .94 | .93 | .92 |
| 14.95 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 15.35 | CFS | .91 | .90 | .89 | .88 | .87 | .86 | .84 | .83 |
| 15.35 | ELEV | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 15.75 | CFS | .82 | .81 | .80 | .79 | .78 | .77 | .76 | .75 |
| 15.75 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 16.15 | CFS | .74 | .73 | .73 | .72 | .72 | .72 | .71 | .71 |
| 16.15 | ELEV | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.55 | CFS | .70 | .70 | .70 | .69 | .69 | .68 | .68 | .68 |
| 16.55 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.95 | CFS | .67 | .67 | .67 | .66 | .66 | .65 | .65 | .65 |
| 16.95 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 17.35 | CFS | .64 | .64 | .63 | .63 | .63 | .62 | .62 | .62 |
| 17.35 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 17.75 | CFS | .61 | .61 | .60 | .60 | .60 | .59 | .59 | .58 |
| 17.75 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.15 | CFS | .58 | .58 | .57 | .57 | .56 | .56 | .56 | .55 |
| 18.15 | ELEV | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.55 | CFS | .55 | .54 | .54 | .54 | .53 | .53 | .52 | .52 |
| 18.55 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.95 | CFS | .52 | .51 | .51 | .51 | .50 | .50 | | |
| 18.95 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.97 WATERSHED INCHES; 23 CFS-HRS; 1.9 ACRE-FEET.

| | | | | | |
|---------------|---|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 9 |
| FLOW(CFS) | 2 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 10, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.17 | 14.2 | 4.48 |
| 13.09 | 2.1 | 2.88 |
| 14.78 | 1.0 | 2.81 |

| HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =10 | | | | | | | | | |
|--|------|-------|-------------|----------|-------|-------|-------|----------------------------|-------|
| HRS | MAIN | TIME | INCREMENT = | .050 hr, | | | | DRAINAGE AREA = .01 SQ.MI. | |
| 6.50 | CFS | .00 | .01 | .01 | .01 | .01 | .02 | .02 | .02 |
| 6.50 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 6.90 | CFS | .03 | .03 | .03 | .04 | .04 | .04 | .05 | .05 |
| 6.90 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 7.30 | CFS | .05 | .06 | .06 | .06 | .07 | .07 | .07 | .08 |
| 7.30 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 7.70 | CFS | .08 | .08 | .09 | .09 | .09 | .10 | .10 | .11 |
| 7.70 | ELEV | 2.75 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 8.10 | CFS | .11 | .12 | .12 | .13 | .13 | .14 | .15 | .15 |
| 8.10 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 8.50 | CFS | .16 | .17 | .17 | .18 | .19 | .20 | .21 | .22 |
| 8.50 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 8.90 | CFS | .22 | .23 | .24 | .25 | .26 | .27 | .28 | .28 |
| 8.90 | ELEV | 2.76 | 2.76 | 2.76 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 9.30 | CFS | .29 | .29 | .30 | .31 | .31 | .32 | .32 | .33 |
| 9.30 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 9.70 | CFS | .34 | .36 | .37 | .38 | .40 | .41 | .43 | .45 |
| 9.70 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 | 2.78 |
| 10.10 | CFS | .46 | .48 | .50 | .52 | .55 | .57 | .59 | .62 |
| 10.10 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 |
| 10.50 | CFS | .65 | .67 | .70 | .73 | .77 | .81 | .85 | .89 |
| 10.50 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 |
| 10.90 | CFS | .93 | .98 | 1.03 | 1.07 | 1.13 | 1.20 | 1.28 | 1.38 |
| 10.90 | ELEV | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 | 2.83 | 2.83 |
| 11.30 | CFS | 1.48 | 1.58 | 1.69 | 1.80 | 1.92 | 2.17 | 2.78 | 3.85 |
| 11.30 | ELEV | 2.84 | 2.85 | 2.85 | 2.86 | 2.87 | 2.88 | 2.92 | 2.98 |
| 11.70 | CFS | 4.56 | 5.88 | 7.33 | 8.92 | 10.61 | 11.95 | 12.98 | 13.54 |
| 11.70 | ELEV | 3.06 | 3.25 | 3.42 | 3.64 | 3.91 | 4.12 | 4.28 | 4.37 |
| 12.10 | CFS | 13.96 | 14.16 | 14.14 | 13.99 | 13.75 | 13.48 | 13.18 | 12.86 |
| 12.10 | ELEV | 4.44 | 4.48 | 4.47 | 4.45 | 4.41 | 4.36 | 4.31 | 4.26 |
| 12.50 | CFS | 12.24 | 11.57 | 10.60 | 9.21 | 7.49 | 5.30 | 2.57 | 2.31 |
| 12.50 | ELEV | 4.16 | 4.06 | 3.91 | 3.69 | 3.44 | 3.17 | 2.91 | 2.89 |
| 12.90 | CFS | 2.38 | 2.15 | 2.21 | 2.00 | 2.05 | 1.88 | 1.92 | 1.78 |
| 12.90 | ELEV | 2.90 | 2.88 | 2.88 | 2.87 | 2.88 | 2.86 | 2.87 | 2.86 |
| 13.30 | CFS | 1.82 | 1.69 | 1.73 | 1.61 | 1.64 | 1.53 | 1.55 | 1.46 |
| 13.30 | ELEV | 2.86 | 2.85 | 2.86 | 2.85 | 2.85 | 2.84 | 2.84 | 2.84 |
| 13.70 | CFS | 1.47 | 1.39 | 1.41 | 1.33 | 1.34 | 1.27 | 1.28 | 1.22 |
| 13.70 | ELEV | 2.84 | 2.83 | 2.84 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 |

09/08/** JONES POINT PARK EXISTING CONDITIONS VERSION
 11:52:48 FILENAME: JPPCLOG.dat 9/7/05 BY: TLH 2.04TEST
 PASS 3 JOB NO. 1 PAGE 12

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 14.10 | CFS | 1.22 | 1.17 | 1.18 | 1.14 | 1.15 | 1.11 | 1.12 | 1.09 |
| 14.10 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 14.50 | CFS | 1.10 | 1.07 | 1.08 | 1.05 | 1.06 | 1.03 | 1.03 | 1.01 |
| 14.50 | ELEV | 2.82 | 2.82 | 2.82 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 14.90 | CFS | 1.01 | .99 | .99 | .97 | .97 | .95 | .95 | .93 |
| 14.90 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 15.30 | CFS | .92 | .91 | .90 | .89 | .88 | .87 | .86 | .84 |
| 15.30 | ELEV | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 15.70 | CFS | .84 | .82 | .81 | .80 | .79 | .78 | .77 | .76 |
| 15.70 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 16.10 | CFS | .75 | .74 | .73 | .73 | .72 | .72 | .72 | .71 |
| 16.10 | ELEV | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.50 | CFS | .71 | .70 | .70 | .70 | .69 | .69 | .69 | .68 |
| 16.50 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.90 | CFS | .68 | .67 | .67 | .67 | .66 | .66 | .65 | .65 |
| 16.90 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 17.30 | CFS | .65 | .64 | .64 | .63 | .63 | .63 | .62 | .62 |
| 17.30 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 17.70 | CFS | .62 | .61 | .61 | .60 | .60 | .60 | .59 | .59 |
| 17.70 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.10 | CFS | .58 | .58 | .58 | .57 | .57 | .56 | .56 | .56 |
| 18.10 | ELEV | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.50 | CFS | .55 | .55 | .54 | .54 | .54 | .53 | .53 | .52 |
| 18.50 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.90 | CFS | .52 | .52 | .51 | .51 | .51 | .50 | .50 | .49 |
| 18.90 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 19.30 | CFS | .49 | .49 | .48 | .48 | .47 | .47 | .47 | .46 |
| 19.30 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 19.70 | CFS | .46 | .45 | .45 | .45 | .44 | .44 | .43 | .43 |
| 19.70 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.10 | CFS | .43 | .42 | .42 | .42 | .42 | .42 | .42 | .42 |
| 20.10 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.50 | CFS | .42 | .42 | .41 | .41 | .41 | .41 | .41 | .41 |
| 20.50 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.90 | CFS | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .40 |
| 20.90 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 21.30 | CFS | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 |
| 21.30 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 21.70 | CFS | .40 | .40 | .40 | .40 | .39 | .39 | .39 | .39 |
| 21.70 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 22.10 | CFS | .39 | .39 | .39 | .39 | .39 | .39 | .39 | .39 |
| 22.10 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 22.50 | CFS | .39 | .38 | .38 | .38 | .38 | .38 | .38 | .38 |
| 22.50 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 22.90 | CFS | .38 | .38 | .38 | .38 | .38 | .38 | .37 | .37 |
| 22.90 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 23.30 | CFS | .37 | .37 | .37 | .37 | .37 | .37 | .37 | .37 |
| 23.30 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 23.70 | CFS | .37 | .37 | .37 | .36 | .36 | .36 | .36 | .34 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
 09/08/** FILENAME: JPPCLOG.dat 9/7/05 BY: TLH VERSION 2.04TEST
 11:52:48 PASS 3 JOB NO. 1 PAGE 13

| | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|
| 23.70 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 24.10 CFS | .27 | .17 | .09 | .05 | .03 | .01 | .01 | .00 |
| 24.10 ELEV | 2.77 | 2.76 | 2.76 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.97 WATERSHED INCHES; 23 CFS-HRS; 1.9 ACRE-FEET.

| | | | | | |
|---------------|---|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 9 |
| FLOW(CFS) | 2 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 10, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

| | | |
|----------------|---------------------|----------------------|
| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
| 12.01 | 29.0 | (RUNOFF) |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =10
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.15 CFS | .48 | .50 | .52 | .55 | .57 | .60 | .62 | .65 |
| 10.15 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 |
| 10.55 CFS | .67 | .70 | .73 | .77 | .81 | .85 | .89 | .93 |
| 10.55 ELEV | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 | 2.81 |
| 10.95 CFS | .98 | 1.03 | 1.08 | 1.13 | 1.20 | 1.29 | 1.38 | 1.48 |
| 10.95 ELEV | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 | 2.83 | 2.83 | 2.84 |
| 11.35 CFS | 1.58 | 1.69 | 1.81 | 1.93 | 2.17 | 2.80 | 3.87 | 5.59 |
| 11.35 ELEV | 2.85 | 2.85 | 2.86 | 2.87 | 2.88 | 2.92 | 2.99 | 3.21 |
| 11.75 CFS | 7.88 | 10.88 | 14.86 | 20.76 | 26.42 | 28.93 | 27.59 | 22.55 |
| 11.75 ELEV | 3.49 | 3.95 | 4.59 | 5.58 | 6.52 | 6.94 | 6.72 | 5.87 |
| 12.15 CFS | 16.27 | 11.30 | 8.41 | 6.70 | 5.64 | 4.89 | 4.33 | 3.86 |
| 12.15 ELEV | 4.83 | 4.02 | 3.56 | 3.34 | 3.21 | 3.11 | 3.03 | 2.99 |
| 12.55 CFS | 3.47 | 3.15 | 2.90 | 2.72 | 2.59 | 2.48 | 2.39 | 2.30 |
| 12.55 ELEV | 2.96 | 2.94 | 2.93 | 2.92 | 2.91 | 2.90 | 2.90 | 2.89 |
| 12.95 CFS | 2.22 | 2.14 | 2.06 | 1.99 | 1.93 | 1.87 | 1.82 | 1.78 |
| 12.95 ELEV | 2.89 | 2.88 | 2.88 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 |
| 13.35 CFS | 1.73 | 1.69 | 1.65 | 1.60 | 1.56 | 1.52 | 1.48 | 1.45 |
| 13.35 ELEV | 2.86 | 2.85 | 2.85 | 2.85 | 2.85 | 2.84 | 2.84 | 2.84 |
| 13.75 CFS | 1.42 | 1.38 | 1.35 | 1.32 | 1.29 | 1.26 | 1.23 | 1.20 |
| 13.75 ELEV | 2.84 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 |
| 14.15 CFS | 1.18 | 1.16 | 1.15 | 1.14 | 1.12 | 1.11 | 1.10 | 1.09 |
| 14.15 ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 14.55 CFS | 1.08 | 1.07 | 1.06 | 1.05 | 1.04 | 1.03 | 1.02 | 1.01 |
| 14.55 ELEV | 2.82 | 2.82 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 14.95 CFS | 1.00 | .99 | .97 | .96 | .95 | .94 | .93 | .92 |
| 14.95 ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 15.35 CFS | .91 | .90 | .89 | .88 | .87 | .86 | .84 | .83 |
| 15.35 ELEV | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 15.75 CFS | .82 | .81 | .80 | .79 | .78 | .77 | .76 | .75 |
| 15.75 ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 16.15 CFS | .74 | .73 | .73 | .72 | .72 | .72 | .71 | .71 |

TR20 ----- SCS -
 09/08/** JONES POINT PARK EXISTING CONDITIONS VERSION
 11:52:48 FILENAME: JPPCLOG.dat 9/7/05 BY: TLH 2.04TEST
 PASS 3 JOB NO. 1 PAGE 14

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 16.15 | ELEV | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.55 | CFS | .70 | .70 | .70 | .69 | .69 | .68 | .68 | .68 |
| 16.55 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.95 | CFS | .67 | .67 | .67 | .66 | .66 | .65 | .65 | .65 |
| 16.95 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 17.35 | CFS | .64 | .64 | .63 | .63 | .63 | .62 | .62 | .62 |
| 17.35 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 17.75 | CFS | .61 | .61 | .60 | .60 | .60 | .59 | .59 | .58 |
| 17.75 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.15 | CFS | .58 | .58 | .57 | .57 | .56 | .56 | .56 | .55 |
| 18.15 | ELEV | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.55 | CFS | .55 | .54 | .54 | .54 | .53 | .53 | .52 | .52 |
| 18.55 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.95 | CFS | .52 | .51 | .51 | .51 | .50 | .50 | | |
| 18.95 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.97 WATERSHED INCHES; 23 CFS-HRS; 1.9 ACRE-FEET.

| | | | | | |
|---------------|---|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 9 |
| FLOW(CFS) | 2 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 10, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 3

EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 25-YR
 STARTING TIME = .00 RAIN DEPTH = 5.99 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =25 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.01 PEAK DISCHARGE(CFS) 39.4 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =25
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|------|------|------|------|------|-------|-------|-------|-------|
| HRS | 9.20 | 9.20 | 9.60 | 9.60 | 10.00 | 10.00 | 10.40 | 10.40 |
| CFS | .50 | .51 | .56 | .57 | .72 | .74 | .96 | |
| ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.80 | 2.81 | 2.81 |
| CFS | .53 | .54 | .61 | .63 | .77 | .79 | 1.03 | 1.07 |
| ELEV | 2.78 | 2.78 | 2.79 | 2.79 | 2.80 | 2.80 | 2.82 | 2.82 |
| CFS | .65 | .67 | .82 | .86 | 1.11 | 1.16 | 1.21 | 1.27 |
| ELEV | 2.79 | 2.79 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.83 |

| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.80 | CFS | 1.33 | 1.39 | 1.45 | 1.51 | 1.58 | 1.65 | 1.74 | 1.84 |
| 10.80 | ELEV | 2.83 | 2.83 | 2.84 | 2.84 | 2.85 | 2.85 | 2.86 | 2.86 |
| 11.20 | CFS | 1.95 | 2.08 | 2.23 | 2.37 | 2.53 | 2.69 | 2.87 | 3.25 |
| 11.20 | ELEV | 2.87 | 2.88 | 2.89 | 2.89 | 2.90 | 2.91 | 2.93 | 2.95 |
| 11.60 | CFS | 4.12 | 5.62 | 8.03 | 11.19 | 15.42 | 20.92 | 28.71 | 36.05 |
| 11.60 | ELEV | 3.00 | 3.21 | 3.50 | 4.00 | 4.69 | 5.60 | 6.90 | 8.12 |
| 12.00 | CFS | 39.35 | 37.43 | 30.41 | 21.80 | 15.15 | 11.26 | 8.94 | 7.48 |
| 12.00 | ELEV | 8.68 | 8.36 | 7.18 | 5.75 | 4.64 | 4.01 | 3.65 | 3.44 |
| 12.40 | CFS | 6.48 | 5.73 | 5.10 | 4.58 | 4.15 | 3.82 | 3.58 | 3.41 |
| 12.40 | ELEV | 3.32 | 3.23 | 3.14 | 3.07 | 3.01 | 2.98 | 2.97 | 2.96 |
| 12.80 | CFS | 3.27 | 3.14 | 3.03 | 2.92 | 2.81 | 2.71 | 2.62 | 2.53 |
| 12.80 | ELEV | 2.95 | 2.94 | 2.93 | 2.93 | 2.92 | 2.92 | 2.91 | 2.90 |
| 13.20 | CFS | 2.46 | 2.39 | 2.33 | 2.27 | 2.22 | 2.16 | 2.10 | 2.05 |
| 13.20 | ELEV | 2.90 | 2.90 | 2.89 | 2.89 | 2.89 | 2.88 | 2.88 | 2.87 |
| 13.60 | CFS | 1.99 | 1.95 | 1.90 | 1.86 | 1.81 | 1.77 | 1.73 | 1.69 |
| 13.60 | ELEV | 2.87 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 | 2.86 | 2.85 |
| 14.00 | CFS | 1.65 | 1.61 | 1.58 | 1.55 | 1.52 | 1.50 | 1.49 | 1.47 |
| 14.00 | ELEV | 2.85 | 2.85 | 2.85 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 |
| 14.40 | CFS | 1.46 | 1.44 | 1.43 | 1.41 | 1.40 | 1.38 | 1.37 | 1.36 |
| 14.40 | ELEV | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 | 2.83 | 2.83 |
| 14.80 | CFS | 1.34 | 1.33 | 1.31 | 1.30 | 1.29 | 1.27 | 1.26 | 1.24 |
| 14.80 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 15.20 | CFS | 1.23 | 1.22 | 1.20 | 1.19 | 1.17 | 1.16 | 1.14 | 1.13 |
| 15.20 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 15.60 | CFS | 1.12 | 1.10 | 1.09 | 1.07 | 1.06 | 1.04 | 1.03 | 1.02 |
| 15.60 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.00 | CFS | 1.00 | .99 | .97 | .96 | .96 | .95 | .94 | .94 |
| 16.00 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.40 | CFS | .93 | .93 | .92 | .92 | .91 | .91 | .90 | .90 |
| 16.40 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 |
| 16.80 | CFS | .89 | .89 | .88 | .88 | .87 | .87 | .86 | .86 |
| 16.80 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.20 | CFS | .85 | .85 | .84 | .84 | .83 | .83 | .82 | .82 |
| 17.20 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.60 | CFS | .81 | .81 | .80 | .80 | .79 | .78 | .78 | .77 |
| 17.60 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.00 | CFS | .77 | .76 | .76 | .75 | .75 | .74 | .74 | .73 |
| 18.00 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.79 |
| 18.40 | CFS | .73 | .72 | .72 | .71 | .71 | .70 | .70 | .69 |
| 18.40 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.80 | CFS | .69 | .68 | .68 | .67 | .67 | .66 | .66 | .65 |
| 18.80 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.20 | CFS | .65 | .64 | .64 | .63 | .63 | .62 | .61 | .61 |
| 19.20 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.60 | CFS | .60 | .60 | .59 | .59 | .58 | .58 | .57 | .57 |
| 19.60 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 |
| 20.00 | CFS | .56 | .56 | .55 | .55 | .55 | .55 | .54 | .54 |
| 20.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.40 | CFS | .54 | .54 | .54 | .54 | .54 | .54 | .54 | .53 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 20.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.80 | CFS | .53 | .53 | .53 | .53 | .53 | .53 | .53 | .53 |
| 20.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.20 | CFS | .53 | .52 | .52 | .52 | .52 | .52 | .52 | .52 |
| 21.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.60 | CFS | .52 | .52 | .52 | .51 | .51 | .51 | .51 | .51 |
| 21.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.00 | CFS | .51 | .51 | .51 | .51 | .51 | .50 | .50 | .50 |
| 22.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.40 | CFS | .50 | .50 | | | | | | |
| 22.40 | ELEV | 2.78 | 2.78 | | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 4.08 WATERSHED INCHES; 31 CFS-HRS; 2.6 ACRE-FEET.

| | | | | | | | |
|---------------|---|---|---|---|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 13 |
| FLOW(CFS) | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 25, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.20 | 15.8 | 4.74 |
| 13.54 | 2.1 | 2.88 |
| 13.64 | 2.0 | 2.87 |
| 15.23 | 1.2 | 2.82 |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =25
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| HRS | 5.50 | 5.50 | 5.90 | 5.90 | 6.30 | 6.30 | 6.70 | 6.70 | 7.10 | 7.10 | 7.50 | 7.50 | 7.90 | 7.90 | 8.30 | 8.30 | 8.70 | 8.70 | 9.10 | 9.10 |
| CFS | .00 | .01 | .03 | .04 | .07 | .07 | .10 | .11 | .14 | .14 | .18 | .18 | .22 | .22 | .28 | .28 | .37 | .37 | .47 | .47 |
| ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.78 |

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| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.50 | CFS | .54 | .55 | .56 | .57 | .59 | .61 | .63 | .65 |
| 9.50 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 |
| 9.90 | CFS | .67 | .69 | .72 | .74 | .76 | .79 | .82 | .86 |
| 9.90 | ELEV | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 10.30 | CFS | .89 | .92 | .96 | 1.00 | 1.03 | 1.07 | 1.11 | 1.16 |
| 10.30 | ELEV | 2.80 | 2.81 | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 |
| 10.70 | CFS | 1.21 | 1.27 | 1.33 | 1.39 | 1.45 | 1.51 | 1.58 | 1.65 |
| 10.70 | ELEV | 2.82 | 2.83 | 2.83 | 2.83 | 2.84 | 2.84 | 2.85 | 2.85 |
| 11.10 | CFS | 1.74 | 1.83 | 1.95 | 2.08 | 2.22 | 2.37 | 2.53 | 2.69 |
| 11.10 | ELEV | 2.86 | 2.86 | 2.87 | 2.88 | 2.89 | 2.89 | 2.90 | 2.91 |
| 11.50 | CFS | 2.87 | 3.24 | 4.09 | 4.57 | 5.93 | 7.45 | 9.06 | 10.75 |
| 11.50 | ELEV | 2.92 | 2.95 | 3.00 | 3.07 | 3.25 | 3.43 | 3.67 | 3.93 |
| 11.90 | CFS | 12.10 | 13.21 | 14.11 | 14.84 | 15.38 | 15.68 | 15.76 | 15.69 |
| 11.90 | ELEV | 4.14 | 4.32 | 4.47 | 4.59 | 4.68 | 4.73 | 4.74 | 4.73 |
| 12.30 | CFS | 15.53 | 15.32 | 15.09 | 14.83 | 14.57 | 14.29 | 13.93 | 13.56 |
| 12.30 | ELEV | 4.70 | 4.67 | 4.63 | 4.59 | 4.54 | 4.50 | 4.44 | 4.38 |
| 12.70 | CFS | 13.20 | 12.85 | 12.16 | 11.45 | 10.33 | 8.89 | 7.08 | 5.02 |
| 12.70 | ELEV | 4.32 | 4.26 | 4.15 | 4.04 | 3.86 | 3.64 | 3.39 | 3.13 |
| 13.10 | CFS | 2.46 | 2.68 | 2.33 | 2.52 | 2.22 | 2.38 | 2.12 | 2.25 |
| 13.10 | ELEV | 2.90 | 2.91 | 2.89 | 2.90 | 2.89 | 2.90 | 2.88 | 2.89 |
| 13.50 | CFS | 2.02 | 2.13 | 1.92 | 2.02 | 1.83 | 1.92 | 1.76 | 1.83 |
| 13.50 | ELEV | 2.87 | 2.88 | 2.87 | 2.87 | 2.86 | 2.87 | 2.86 | 2.86 |
| 13.90 | CFS | 1.68 | 1.74 | 1.61 | 1.65 | 1.54 | 1.58 | 1.49 | 1.53 |
| 13.90 | ELEV | 2.85 | 2.86 | 2.85 | 2.85 | 2.84 | 2.85 | 2.84 | 2.84 |
| 14.30 | CFS | 1.46 | 1.50 | 1.43 | 1.46 | 1.41 | 1.43 | 1.38 | 1.40 |
| 14.30 | ELEV | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 | 2.84 |
| 14.70 | CFS | 1.35 | 1.37 | 1.33 | 1.34 | 1.30 | 1.31 | 1.28 | 1.28 |
| 14.70 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 15.10 | CFS | 1.25 | 1.25 | 1.22 | 1.22 | 1.19 | 1.19 | 1.17 | 1.16 |
| 15.10 | ELEV | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 15.50 | CFS | 1.14 | 1.14 | 1.11 | 1.11 | 1.08 | 1.08 | 1.06 | 1.05 |
| 15.50 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 | 2.81 |
| 15.90 | CFS | 1.03 | 1.02 | 1.00 | .99 | .97 | .97 | .95 | .95 |
| 15.90 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.30 | CFS | .94 | .94 | .93 | .93 | .92 | .92 | .91 | .91 |
| 16.30 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.70 | CFS | .90 | .90 | .89 | .89 | .88 | .88 | .87 | .87 |
| 16.70 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.10 | CFS | .86 | .86 | .85 | .85 | .84 | .84 | .83 | .83 |
| 17.10 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.50 | CFS | .82 | .82 | .81 | .81 | .80 | .80 | .79 | .78 |
| 17.50 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.90 | CFS | .78 | .77 | .77 | .76 | .76 | .75 | .75 | .74 |
| 17.90 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.30 | CFS | .74 | .73 | .73 | .72 | .72 | .71 | .71 | .70 |
| 18.30 | ELEV | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.70 | CFS | .70 | .69 | .69 | .68 | .68 | .67 | .67 | .66 |
| 18.70 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.10 | CFS | .66 | .65 | .65 | .64 | .64 | .63 | .63 | .62 |

TR20 ----- SCS -
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 19.10 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.50 | CFS | .61 | .61 | .60 | .60 | .59 | .59 | .58 | .58 |
| 19.50 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.90 | CFS | .57 | .57 | .56 | .56 | .55 | .55 | .55 | .55 |
| 19.90 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.30 | CFS | .54 | .54 | .54 | .54 | .54 | .54 | .54 | .54 |
| 20.30 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.70 | CFS | .54 | .53 | .53 | .53 | .53 | .53 | .53 | .53 |
| 20.70 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.10 | CFS | .53 | .53 | .53 | .52 | .52 | .52 | .52 | .52 |
| 21.10 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.50 | CFS | .52 | .52 | .52 | .52 | .52 | .51 | .51 | .51 |
| 21.50 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.90 | CFS | .51 | .51 | .51 | .51 | .51 | .51 | .51 | .50 |
| 21.90 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.30 | CFS | .50 | .50 | .50 | .50 | .50 | .50 | .50 | .50 |
| 22.30 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.70 | CFS | .49 | .49 | .49 | .49 | .49 | .49 | .49 | .49 |
| 22.70 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.10 | CFS | .49 | .49 | .48 | .48 | .48 | .48 | .48 | .48 |
| 23.10 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.50 | CFS | .48 | .48 | .48 | .48 | .47 | .47 | .47 | .47 |
| 23.50 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.90 | CFS | .47 | .47 | .47 | .44 | .35 | .22 | .12 | .06 |
| 23.90 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.77 | 2.76 | 2.76 | 2.75 |
| 24.30 | CFS | .04 | .02 | .01 | .00 | | | | |
| 24.30 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 4.08 WATERSHED INCHES; 31 CFS-HRS; 2.6 ACRE-FEET.

| | | | | | | | |
|---------------|---|---|---|---|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 13 |
| FLOW(CFS) | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 25, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

| | | | | | |
|----------------|-------|---------------------|------|----------------------|----------|
| PEAK TIME(HRS) | 12.01 | PEAK DISCHARGE(CFS) | 39.4 | PEAK ELEVATION(FEET) | (RUNOFF) |
|----------------|-------|---------------------|------|----------------------|----------|

| HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =25 | | | | | | | | | |
|--|------|------|-------------|----------|----------|--------|------|--------|------|
| HRS | MAIN | TIME | INCREMENT = | .050 hr, | DRAINAGE | AREA = | .01 | SQ.MI. | |
| 9.20 | CFS | .50 | .51 | .51 | .52 | .53 | .54 | .54 | .55 |
| 9.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 9.60 | CFS | .56 | .57 | .59 | .61 | .63 | .65 | .67 | .69 |
| 9.60 | ELEV | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 10.00 | CFS | .72 | .74 | .77 | .79 | .82 | .86 | .89 | .92 |
| 10.00 | ELEV | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.81 |
| 10.40 | CFS | .96 | 1.00 | 1.03 | 1.07 | 1.11 | 1.16 | 1.21 | 1.27 |

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| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.40 | ELEV | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 | 2.82 | 2.83 |
| 10.80 | CFS | 1.33 | 1.39 | 1.45 | 1.51 | 1.58 | 1.65 | 1.74 | 1.84 |
| 10.80 | ELEV | 2.83 | 2.83 | 2.84 | 2.84 | 2.85 | 2.85 | 2.86 | 2.86 |
| 11.20 | CFS | 1.95 | 2.08 | 2.23 | 2.37 | 2.53 | 2.69 | 2.87 | 3.25 |
| 11.20 | ELEV | 2.87 | 2.88 | 2.89 | 2.89 | 2.90 | 2.91 | 2.93 | 2.95 |
| 11.60 | CFS | 4.12 | 5.62 | 8.03 | 11.19 | 15.42 | 20.92 | 28.71 | 36.05 |
| 11.60 | ELEV | 3.00 | 3.21 | 3.50 | 4.00 | 4.69 | 5.60 | 6.90 | 8.12 |
| 12.00 | CFS | 39.35 | 37.43 | 30.41 | 21.80 | 15.15 | 11.26 | 8.94 | 7.48 |
| 12.00 | ELEV | 8.68 | 8.36 | 7.18 | 5.75 | 4.64 | 4.01 | 3.65 | 3.44 |
| 12.40 | CFS | 6.48 | 5.73 | 5.10 | 4.58 | 4.15 | 3.82 | 3.58 | 3.41 |
| 12.40 | ELEV | 3.32 | 3.23 | 3.14 | 3.07 | 3.01 | 2.98 | 2.97 | 2.96 |
| 12.80 | CFS | 3.27 | 3.14 | 3.03 | 2.92 | 2.81 | 2.71 | 2.62 | 2.53 |
| 12.80 | ELEV | 2.95 | 2.94 | 2.93 | 2.93 | 2.92 | 2.92 | 2.91 | 2.90 |
| 13.20 | CFS | 2.46 | 2.39 | 2.33 | 2.27 | 2.22 | 2.16 | 2.10 | 2.05 |
| 13.20 | ELEV | 2.90 | 2.90 | 2.89 | 2.89 | 2.89 | 2.88 | 2.88 | 2.87 |
| 13.60 | CFS | 1.99 | 1.95 | 1.90 | 1.86 | 1.81 | 1.77 | 1.73 | 1.69 |
| 13.60 | ELEV | 2.87 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 | 2.86 | 2.85 |
| 14.00 | CFS | 1.65 | 1.61 | 1.58 | 1.55 | 1.52 | 1.50 | 1.49 | 1.47 |
| 14.00 | ELEV | 2.85 | 2.85 | 2.85 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 |
| 14.40 | CFS | 1.46 | 1.44 | 1.43 | 1.41 | 1.40 | 1.38 | 1.37 | 1.36 |
| 14.40 | ELEV | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 | 2.83 | 2.83 |
| 14.80 | CFS | 1.34 | 1.33 | 1.31 | 1.30 | 1.29 | 1.27 | 1.26 | 1.24 |
| 14.80 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 15.20 | CFS | 1.23 | 1.22 | 1.20 | 1.19 | 1.17 | 1.16 | 1.14 | 1.13 |
| 15.20 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 15.60 | CFS | 1.12 | 1.10 | 1.09 | 1.07 | 1.06 | 1.04 | 1.03 | 1.02 |
| 15.60 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.00 | CFS | 1.00 | .99 | .97 | .96 | .96 | .95 | .94 | .94 |
| 16.00 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.40 | CFS | .93 | .93 | .92 | .92 | .91 | .91 | .90 | .90 |
| 16.40 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 |
| 16.80 | CFS | .89 | .89 | .88 | .88 | .87 | .87 | .86 | .86 |
| 16.80 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.20 | CFS | .85 | .85 | .84 | .84 | .83 | .83 | .82 | .82 |
| 17.20 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.60 | CFS | .81 | .81 | .80 | .80 | .79 | .78 | .78 | .77 |
| 17.60 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.00 | CFS | .77 | .76 | .76 | .75 | .75 | .74 | .74 | .73 |
| 18.00 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.79 |
| 18.40 | CFS | .73 | .72 | .72 | .71 | .71 | .70 | .70 | .69 |
| 18.40 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.80 | CFS | .69 | .68 | .68 | .67 | .67 | .66 | .66 | .65 |
| 18.80 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.20 | CFS | .65 | .64 | .64 | .63 | .63 | .62 | .61 | .61 |
| 19.20 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.60 | CFS | .60 | .60 | .59 | .59 | .58 | .58 | .57 | .57 |
| 19.60 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 |
| 20.00 | CFS | .56 | .56 | .55 | .55 | .55 | .55 | .54 | .54 |
| 20.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
 09/08/** FILENAME: JPPCLOG.dat 9/7/05 BY: TLH VERSION
 11:52:48 PASS 4 JOB NO. 1 2.04TEST
 PAGE 20

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 20.40 | CFS | .54 | .54 | .54 | .54 | .54 | .54 | .54 | .53 |
| 20.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.80 | CFS | .53 | .53 | .53 | .53 | .53 | .53 | .53 | .53 |
| 20.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.20 | CFS | .53 | .52 | .52 | .52 | .52 | .52 | .52 | .52 |
| 21.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.60 | CFS | .52 | .52 | .52 | .51 | .51 | .51 | .51 | .51 |
| 21.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.00 | CFS | .51 | .51 | .51 | .51 | .51 | .50 | .50 | .50 |
| 22.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.40 | CFS | .50 | .50 | | | | | | |
| 22.40 | ELEV | 2.78 | 2.78 | | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 4.08 WATERSHED INCHES; 31 CFS-HRS; 2.6 ACRE-FEET.

| | | | | | | | |
|---------------|---|---|---|---|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 13 |
| FLOW(CFS) | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 25, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 4

EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 50-YR
 STARTING TIME = .00 RAIN DEPTH = 7.05 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =50 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.00 PEAK DISCHARGE(CFS) 48.5 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =50
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| HRS | 8.55 | 8.55 | 8.55 | 8.95 | 8.95 | 8.95 | 9.35 | 9.35 | 9.35 | 9.75 | 9.75 | 10.15 | 10.15 | 10.55 |
| CFS | .49 | .51 | .53 | .63 | .65 | .67 | .74 | .75 | .76 | .85 | .87 | 1.09 | 1.13 | 1.45 |
| ELEV | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.82 | 2.82 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .58 | .60 | .61 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | .96 | .99 | 1.26 | 1.30 | 1.70 |
| ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.83 | 2.83 | 2.84 |
| CFS | .56 | .58 | .60 | .70 | .71 | .72 | .77 | .79 | .80 | | | | | |

| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.55 | ELEV | 2.84 | 2.84 | 2.85 | 2.85 | 2.85 | 2.86 | 2.86 | 2.87 |
| 10.95 | CFS | 2.01 | 2.10 | 2.19 | 2.30 | 2.42 | 2.57 | 2.74 | 2.92 |
| 10.95 | ELEV | 2.87 | 2.88 | 2.88 | 2.89 | 2.90 | 2.91 | 2.92 | 2.93 |
| 11.35 | CFS | 3.11 | 3.30 | 3.50 | 3.73 | 4.20 | 5.32 | 7.27 | 10.31 |
| 11.35 | ELEV | 2.94 | 2.95 | 2.96 | 2.98 | 3.01 | 3.17 | 3.41 | 3.86 |
| 11.75 | CFS | 14.30 | 19.43 | 26.02 | 35.71 | 44.72 | 48.52 | 45.81 | 37.22 |
| 11.75 | ELEV | 4.50 | 5.35 | 6.45 | 8.07 | 9.57 | 10.20 | 9.75 | 8.32 |
| 12.15 | CFS | 26.69 | 18.42 | 13.71 | 10.88 | 9.09 | 7.86 | 6.94 | 6.18 |
| 12.15 | ELEV | 6.57 | 5.19 | 4.40 | 3.95 | 3.67 | 3.48 | 3.37 | 3.28 |
| 12.55 | CFS | 5.55 | 5.02 | 4.63 | 4.34 | 4.12 | 3.95 | 3.80 | 3.66 |
| 12.55 | ELEV | 3.20 | 3.13 | 3.07 | 3.03 | 3.00 | 2.99 | 2.98 | 2.97 |
| 12.95 | CFS | 3.53 | 3.40 | 3.28 | 3.16 | 3.06 | 2.97 | 2.89 | 2.81 |
| 12.95 | ELEV | 2.97 | 2.96 | 2.95 | 2.94 | 2.94 | 2.93 | 2.93 | 2.92 |
| 13.35 | CFS | 2.74 | 2.67 | 2.61 | 2.54 | 2.47 | 2.41 | 2.35 | 2.29 |
| 13.35 | ELEV | 2.92 | 2.91 | 2.91 | 2.90 | 2.90 | 2.90 | 2.89 | 2.89 |
| 13.75 | CFS | 2.24 | 2.19 | 2.14 | 2.09 | 2.04 | 1.99 | 1.94 | 1.90 |
| 13.75 | ELEV | 2.89 | 2.88 | 2.88 | 2.88 | 2.87 | 2.87 | 2.87 | 2.87 |
| 14.15 | CFS | 1.86 | 1.83 | 1.81 | 1.79 | 1.77 | 1.75 | 1.74 | 1.72 |
| 14.15 | ELEV | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.85 |
| 14.55 | CFS | 1.70 | 1.68 | 1.67 | 1.65 | 1.63 | 1.62 | 1.60 | 1.58 |
| 14.55 | ELEV | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 |
| 14.95 | CFS | 1.57 | 1.55 | 1.53 | 1.51 | 1.50 | 1.48 | 1.46 | 1.45 |
| 14.95 | ELEV | 2.85 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 |
| 15.35 | CFS | 1.43 | 1.41 | 1.39 | 1.38 | 1.36 | 1.34 | 1.32 | 1.31 |
| 15.35 | ELEV | 2.84 | 2.84 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 15.75 | CFS | 1.29 | 1.27 | 1.26 | 1.24 | 1.22 | 1.20 | 1.19 | 1.17 |
| 15.75 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 |
| 16.15 | CFS | 1.16 | 1.15 | 1.14 | 1.13 | 1.13 | 1.12 | 1.11 | 1.11 |
| 16.15 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 16.55 | CFS | 1.10 | 1.10 | 1.09 | 1.08 | 1.08 | 1.07 | 1.07 | 1.06 |
| 16.55 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 | 2.81 |
| 16.95 | CFS | 1.05 | 1.05 | 1.04 | 1.03 | 1.03 | 1.02 | 1.02 | 1.01 |
| 16.95 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 17.35 | CFS | 1.00 | 1.00 | .99 | .99 | .98 | .97 | .97 | .96 |
| 17.35 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 17.75 | CFS | .95 | .95 | .94 | .94 | .93 | .92 | .92 | .91 |
| 17.75 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 18.15 | CFS | .91 | .90 | .89 | .89 | .88 | .87 | .87 | .86 |
| 18.15 | ELEV | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.55 | CFS | .86 | .85 | .84 | .84 | .83 | .82 | .82 | .81 |
| 18.55 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.95 | CFS | .81 | .80 | .79 | .79 | .78 | .78 | .77 | .76 |
| 18.95 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.35 | CFS | .76 | .75 | .74 | .74 | .73 | .73 | .72 | .71 |
| 19.35 | ELEV | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.75 | CFS | .71 | .70 | .69 | .69 | .68 | .68 | .67 | .66 |
| 19.75 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.15 | CFS | .66 | .66 | .65 | .65 | .65 | .65 | .65 | .65 |
| 20.15 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|
| 20.55 CFS | .65 | .64 | .64 | .64 | .64 | .64 | .64 | .64 |
| 20.55 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.95 CFS | .64 | .63 | .63 | .63 | .63 | .63 | .63 | .63 |
| 20.95 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.35 CFS | .63 | .63 | .62 | .62 | .62 | .62 | .62 | .62 |
| 21.35 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.75 CFS | .62 | .62 | .61 | .61 | .61 | .61 | .61 | .61 |
| 21.75 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.15 CFS | .61 | .61 | .60 | .60 | .60 | .60 | .60 | .60 |
| 22.15 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.55 CFS | .60 | .60 | .59 | .59 | .59 | .59 | .59 | .59 |
| 22.55 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.95 CFS | .59 | .59 | .58 | .58 | .58 | .58 | .58 | .58 |
| 22.95 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.35 CFS | .58 | .58 | .57 | .57 | .57 | .57 | .57 | .57 |
| 23.35 ELEV | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.75 CFS | .57 | .57 | .56 | .56 | .56 | .56 | .52 | .41 |
| 23.75 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 5.07 WATERSHED INCHES; 39 CFS-HRS; 3.2 ACRE-FEET.

| | | | | | | | | |
|---------------|---|---|---|---|----|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| FLOW(CFS) | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 50, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.22 | 17.2 | 4.99 |
| 13.89 | 2.2 | 2.88 |
| 13.99 | 2.1 | 2.88 |
| 15.38 | 1.4 | 2.84 |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =50
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|
| 4.85 CFS | .00 | .01 | .01 | .01 | .02 | .02 | .03 | .03 |
| 4.85 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 5.25 CFS | .04 | .04 | .05 | .05 | .06 | .06 | .07 | .07 |
| 5.25 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 5.65 CFS | .08 | .08 | .09 | .09 | .10 | .10 | .11 | .11 |
| 5.65 ELEV | 2.75 | 2.75 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 6.05 CFS | .12 | .12 | .13 | .14 | .14 | .15 | .15 | .16 |
| 6.05 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 6.45 CFS | .16 | .17 | .18 | .18 | .19 | .19 | .20 | .20 |
| 6.45 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 6.85 CFS | .21 | .22 | .22 | .23 | .23 | .24 | .25 | .25 |
| 6.85 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.77 | 2.77 |
| 7.25 CFS | .26 | .27 | .27 | .28 | .28 | .29 | .30 | .30 |

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| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 7.25 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 7.65 | CFS | .31 | .32 | .32 | .33 | .34 | .34 | .35 | .36 |
| 7.65 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 8.05 | CFS | .36 | .37 | .38 | .39 | .41 | .42 | .43 | .45 |
| 8.05 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 | 2.78 |
| 8.45 | CFS | .46 | .48 | .49 | .51 | .53 | .54 | .56 | .58 |
| 8.45 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 |
| 8.85 | CFS | .60 | .61 | .63 | .65 | .67 | .68 | .70 | .71 |
| 8.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 9.25 | CFS | .72 | .73 | .74 | .75 | .76 | .77 | .77 | .79 |
| 9.25 | ELEV | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 9.65 | CFS | .80 | .82 | .85 | .87 | .90 | .93 | .96 | .99 |
| 9.65 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.81 | 2.81 | 2.81 |
| 10.05 | CFS | 1.02 | 1.05 | 1.09 | 1.13 | 1.17 | 1.21 | 1.26 | 1.30 |
| 10.05 | ELEV | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 | 2.82 | 2.83 | 2.83 |
| 10.45 | CFS | 1.35 | 1.40 | 1.45 | 1.50 | 1.56 | 1.63 | 1.70 | 1.77 |
| 10.45 | ELEV | 2.83 | 2.84 | 2.84 | 2.84 | 2.85 | 2.85 | 2.85 | 2.86 |
| 10.85 | CFS | 1.85 | 1.93 | 2.01 | 2.10 | 2.19 | 2.29 | 2.42 | 2.57 |
| 10.85 | ELEV | 2.86 | 2.87 | 2.87 | 2.88 | 2.88 | 2.89 | 2.90 | 2.91 |
| 11.25 | CFS | 2.73 | 2.92 | 3.10 | 3.30 | 3.50 | 3.72 | 4.13 | 4.51 |
| 11.25 | ELEV | 2.92 | 2.93 | 2.94 | 2.95 | 2.96 | 2.98 | 3.00 | 3.06 |
| 11.65 | CFS | 5.60 | 7.01 | 8.68 | 10.32 | 11.77 | 13.02 | 14.01 | 15.00 |
| 11.65 | ELEV | 3.21 | 3.38 | 3.61 | 3.86 | 4.09 | 4.29 | 4.45 | 4.62 |
| 12.05 | CFS | 15.90 | 16.63 | 17.06 | 17.21 | 17.18 | 17.04 | 16.84 | 16.61 |
| 12.05 | ELEV | 4.77 | 4.89 | 4.96 | 4.99 | 4.98 | 4.96 | 4.92 | 4.88 |
| 12.45 | CFS | 16.35 | 16.07 | 15.78 | 15.49 | 15.19 | 14.89 | 14.59 | 14.28 |
| 12.45 | ELEV | 4.84 | 4.80 | 4.75 | 4.70 | 4.65 | 4.60 | 4.55 | 4.50 |
| 12.85 | CFS | 13.90 | 13.53 | 13.17 | 12.81 | 12.09 | 11.39 | 10.20 | 8.75 |
| 12.85 | ELEV | 4.43 | 4.37 | 4.31 | 4.25 | 4.14 | 4.03 | 3.84 | 3.62 |
| 13.25 | CFS | 6.92 | 4.93 | 2.58 | 2.83 | 2.47 | 2.67 | 2.35 | 2.52 |
| 13.25 | ELEV | 3.37 | 3.12 | 2.91 | 2.92 | 2.90 | 2.91 | 2.89 | 2.90 |
| 13.65 | CFS | 2.24 | 2.39 | 2.15 | 2.27 | 2.06 | 2.16 | 1.97 | 2.05 |
| 13.65 | ELEV | 2.89 | 2.90 | 2.88 | 2.89 | 2.88 | 2.88 | 2.87 | 2.88 |
| 14.05 | CFS | 1.88 | 1.96 | 1.81 | 1.88 | 1.77 | 1.83 | 1.73 | 1.79 |
| 14.05 | ELEV | 2.86 | 2.87 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 |
| 14.45 | CFS | 1.70 | 1.75 | 1.67 | 1.71 | 1.64 | 1.67 | 1.61 | 1.64 |
| 14.45 | ELEV | 2.85 | 2.86 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 |
| 14.85 | CFS | 1.58 | 1.60 | 1.55 | 1.56 | 1.52 | 1.53 | 1.48 | 1.49 |
| 14.85 | ELEV | 2.85 | 2.85 | 2.84 | 2.85 | 2.84 | 2.84 | 2.84 | 2.84 |
| 15.25 | CFS | 1.45 | 1.46 | 1.42 | 1.42 | 1.39 | 1.38 | 1.35 | 1.35 |
| 15.25 | ELEV | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 | 2.83 | 2.83 | 2.83 |
| 15.65 | CFS | 1.32 | 1.31 | 1.29 | 1.28 | 1.25 | 1.24 | 1.22 | 1.21 |
| 15.65 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 |
| 16.05 | CFS | 1.18 | 1.18 | 1.16 | 1.15 | 1.14 | 1.14 | 1.12 | 1.12 |
| 16.05 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 16.45 | CFS | 1.11 | 1.11 | 1.10 | 1.10 | 1.09 | 1.09 | 1.08 | 1.07 |
| 16.45 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 16.85 | CFS | 1.06 | 1.06 | 1.05 | 1.05 | 1.04 | 1.04 | 1.03 | 1.02 |
| 16.85 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 17.25 | CFS | 1.02 | 1.01 | 1.00 | 1.00 | .99 | .99 | .98 | .97 |
| 17.25 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 17.65 | CFS | .97 | .96 | .95 | .95 | .94 | .94 | .93 | .92 |
| 17.65 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 18.05 | CFS | .92 | .91 | .91 | .90 | .89 | .89 | .88 | .87 |
| 18.05 | ELEV | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.45 | CFS | .87 | .86 | .86 | .85 | .84 | .84 | .83 | .83 |
| 18.45 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.85 | CFS | .82 | .81 | .81 | .80 | .79 | .79 | .78 | .78 |
| 18.85 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.25 | CFS | .77 | .76 | .76 | .75 | .74 | .74 | .73 | .73 |
| 19.25 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 |
| 19.65 | CFS | .72 | .71 | .71 | .70 | .69 | .69 | .68 | .68 |
| 19.65 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.05 | CFS | .67 | .66 | .66 | .66 | .65 | .65 | .65 | .65 |
| 20.05 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.45 | CFS | .65 | .65 | .65 | .64 | .64 | .64 | .64 | .64 |
| 20.45 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.85 | CFS | .64 | .64 | .64 | .64 | .63 | .63 | .63 | .63 |
| 20.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.25 | CFS | .63 | .63 | .63 | .63 | .62 | .62 | .62 | .62 |
| 21.25 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.65 | CFS | .62 | .62 | .62 | .62 | .61 | .61 | .61 | .61 |
| 21.65 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.05 | CFS | .61 | .61 | .61 | .61 | .60 | .60 | .60 | .60 |
| 22.05 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.45 | CFS | .60 | .60 | .60 | .60 | .59 | .59 | .59 | .59 |
| 22.45 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.85 | CFS | .59 | .59 | .59 | .59 | .58 | .58 | .58 | .58 |
| 22.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.25 | CFS | .58 | .58 | .58 | .58 | .57 | .57 | .57 | .57 |
| 23.25 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 |
| 23.65 | CFS | .57 | .57 | .57 | .57 | .56 | .56 | .56 | .56 |
| 23.65 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 24.05 | CFS | .52 | .41 | .26 | .14 | .08 | .04 | .02 | .01 |
| 24.05 | ELEV | 2.78 | 2.78 | 2.77 | 2.76 | 2.75 | 2.75 | 2.75 | 2.75 |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 5.07 WATERSHED INCHES; 39 CFS-HRS; 3.2 ACRE-FEET.

| | | | | | | | | |
|---------------|---|---|---|---|----|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| FLOW(CFS) | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 50, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.00 PEAK DISCHARGE(CFS) 48.5 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =50
 DRAINAGE AREA = .01 SQ.MI.

| HRS | MAIN | TIME | INCREMENT | = | .050 | hr, | | | | | | | |
|-------|------|-------|-----------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| 8.55 | CFS | .49 | .51 | .53 | .54 | .56 | .58 | .60 | .61 | | | | |
| 8.55 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 | | | | |
| 8.95 | CFS | .63 | .65 | .67 | .68 | .70 | .71 | .72 | .73 | | | | |
| 8.95 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | | | | |
| 9.35 | CFS | .74 | .75 | .76 | .77 | .77 | .79 | .80 | .82 | | | | |
| 9.35 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | | | | |
| 9.75 | CFS | .85 | .87 | .90 | .93 | .96 | .99 | 1.02 | 1.05 | | | | |
| 9.75 | ELEV | 2.80 | 2.80 | 2.80 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | | | | |
| 10.15 | CFS | 1.09 | 1.13 | 1.17 | 1.21 | 1.26 | 1.30 | 1.35 | 1.40 | | | | |
| 10.15 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.83 | 2.83 | 2.83 | 2.84 | | | | |
| 10.55 | CFS | 1.45 | 1.50 | 1.56 | 1.63 | 1.70 | 1.78 | 1.85 | 1.93 | | | | |
| 10.55 | ELEV | 2.84 | 2.84 | 2.85 | 2.85 | 2.85 | 2.86 | 2.86 | 2.87 | | | | |
| 10.95 | CFS | 2.01 | 2.10 | 2.19 | 2.30 | 2.42 | 2.57 | 2.74 | 2.92 | | | | |
| 10.95 | ELEV | 2.87 | 2.88 | 2.88 | 2.89 | 2.90 | 2.91 | 2.92 | 2.93 | | | | |
| 11.35 | CFS | 3.11 | 3.30 | 3.50 | 3.73 | 4.20 | 5.32 | 7.27 | 10.31 | | | | |
| 11.35 | ELEV | 2.94 | 2.95 | 2.96 | 2.98 | 3.01 | 3.17 | 3.41 | 3.86 | | | | |
| 11.75 | CFS | 14.30 | 19.43 | 26.02 | 35.71 | 44.72 | 48.52 | 45.81 | 37.22 | | | | |
| 11.75 | ELEV | 4.50 | 5.35 | 6.45 | 8.07 | 9.57 | 10.20 | 9.75 | 8.32 | | | | |
| 12.15 | CFS | 26.69 | 18.42 | 13.71 | 10.88 | 9.09 | 7.86 | 6.94 | 6.18 | | | | |
| 12.15 | ELEV | 6.57 | 5.19 | 4.40 | 3.95 | 3.67 | 3.48 | 3.37 | 3.28 | | | | |
| 12.55 | CFS | 5.55 | 5.02 | 4.63 | 4.34 | 4.12 | 3.95 | 3.80 | 3.66 | | | | |
| 12.55 | ELEV | 3.20 | 3.13 | 3.07 | 3.03 | 3.00 | 2.99 | 2.98 | 2.97 | | | | |
| 12.95 | CFS | 3.53 | 3.40 | 3.28 | 3.16 | 3.06 | 2.97 | 2.89 | 2.81 | | | | |
| 12.95 | ELEV | 2.97 | 2.96 | 2.95 | 2.94 | 2.94 | 2.93 | 2.93 | 2.92 | | | | |
| 13.35 | CFS | 2.74 | 2.67 | 2.61 | 2.54 | 2.47 | 2.41 | 2.35 | 2.29 | | | | |
| 13.35 | ELEV | 2.92 | 2.91 | 2.91 | 2.90 | 2.90 | 2.90 | 2.89 | 2.89 | | | | |
| 13.75 | CFS | 2.24 | 2.19 | 2.14 | 2.09 | 2.04 | 1.99 | 1.94 | 1.90 | | | | |
| 13.75 | ELEV | 2.89 | 2.88 | 2.88 | 2.88 | 2.87 | 2.87 | 2.87 | 2.87 | | | | |
| 14.15 | CFS | 1.86 | 1.83 | 1.81 | 1.79 | 1.77 | 1.75 | 1.74 | 1.72 | | | | |
| 14.15 | ELEV | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.85 | | | | |
| 14.55 | CFS | 1.70 | 1.68 | 1.67 | 1.65 | 1.63 | 1.62 | 1.60 | 1.58 | | | | |
| 14.55 | ELEV | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | | | | |
| 14.95 | CFS | 1.57 | 1.55 | 1.53 | 1.51 | 1.50 | 1.48 | 1.46 | 1.45 | | | | |
| 14.95 | ELEV | 2.85 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | | | | |
| 15.35 | CFS | 1.43 | 1.41 | 1.39 | 1.38 | 1.36 | 1.34 | 1.32 | 1.31 | | | | |
| 15.35 | ELEV | 2.84 | 2.84 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | | | | |
| 15.75 | CFS | 1.29 | 1.27 | 1.26 | 1.24 | 1.22 | 1.20 | 1.19 | 1.17 | | | | |
| 15.75 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | | | | |
| 16.15 | CFS | 1.16 | 1.15 | 1.14 | 1.13 | 1.13 | 1.12 | 1.11 | 1.11 | | | | |
| 16.15 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | | | | |
| 16.55 | CFS | 1.10 | 1.10 | 1.09 | 1.08 | 1.08 | 1.07 | 1.07 | 1.06 | | | | |
| 16.55 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 | 2.81 | | | | |
| 16.95 | CFS | 1.05 | 1.05 | 1.04 | 1.03 | 1.03 | 1.02 | 1.02 | 1.01 | | | | |
| 16.95 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | | | | |
| 17.35 | CFS | 1.00 | 1.00 | .99 | .99 | .98 | .97 | .97 | .96 | | | | |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 17.35 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 17.75 | CFS | .95 | .95 | .94 | .94 | .93 | .92 | .92 | .91 |
| 17.75 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 18.15 | CFS | .91 | .90 | .89 | .89 | .88 | .87 | .87 | .86 |
| 18.15 | ELEV | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.55 | CFS | .86 | .85 | .84 | .84 | .83 | .82 | .82 | .81 |
| 18.55 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.95 | CFS | .81 | .80 | .79 | .79 | .78 | .78 | .77 | .76 |
| 18.95 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.35 | CFS | .76 | .75 | .74 | .74 | .73 | .73 | .72 | .71 |
| 19.35 | ELEV | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.75 | CFS | .71 | .70 | .69 | .69 | .68 | .68 | .67 | .66 |
| 19.75 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.15 | CFS | .66 | .66 | .65 | .65 | .65 | .65 | .65 | .65 |
| 20.15 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.55 | CFS | .65 | .64 | .64 | .64 | .64 | .64 | .64 | .64 |
| 20.55 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.95 | CFS | .64 | .63 | .63 | .63 | .63 | .63 | .63 | .63 |
| 20.95 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.35 | CFS | .63 | .63 | .62 | .62 | .62 | .62 | .62 | .62 |
| 21.35 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.75 | CFS | .62 | .62 | .61 | .61 | .61 | .61 | .61 | .61 |
| 21.75 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.15 | CFS | .61 | .61 | .60 | .60 | .60 | .60 | .60 | .60 |
| 22.15 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.55 | CFS | .60 | .60 | .59 | .59 | .59 | .59 | .59 | .59 |
| 22.55 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.95 | CFS | .59 | .59 | .58 | .58 | .58 | .58 | .58 | .58 |
| 22.95 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.35 | CFS | .58 | .58 | .57 | .57 | .57 | .57 | .57 | .57 |
| 23.35 | ELEV | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.75 | CFS | .57 | .57 | .56 | .56 | .56 | .56 | .52 | .41 |
| 23.75 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 5.07 WATERSHED INCHES; 39 CFS-HRS; 3.2 ACRE-FEET.

| | | | | | | | | |
|---------------|---|---|---|---|----|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| FLOW(CFS) | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 50, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 5

TR20 ----- SCS -
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EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 100-YR
 STARTING TIME = .00 RAIN DEPTH = 8.26 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =99 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.00 59.0 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =99
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| HRS | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 7.85 | .49 | .50 | .51 | .52 | .53 | .54 | .55 | .56 | .57 | .58 |
| 7.85 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 8.25 | .58 | .60 | .62 | .64 | .66 | .68 | .70 | .72 | .74 | .76 |
| 8.25 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 8.65 | .74 | .76 | .78 | .81 | .83 | .85 | .87 | .90 | .92 | .94 |
| 8.65 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 9.05 | .92 | .94 | .96 | .98 | .99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.04 |
| 9.05 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 9.45 | 1.03 | 1.04 | 1.05 | 1.06 | 1.08 | 1.11 | 1.14 | 1.17 | 1.20 | 1.24 |
| 9.45 | 2.81 | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 9.85 | 1.20 | 1.24 | 1.28 | 1.32 | 1.36 | 1.40 | 1.44 | 1.49 | 1.55 | 1.60 |
| 9.85 | 2.82 | 2.83 | 2.83 | 2.83 | 2.83 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 |
| 10.25 | 1.55 | 1.60 | 1.66 | 1.72 | 1.77 | 1.83 | 1.89 | 1.96 | 2.04 | 2.12 |
| 10.25 | 2.84 | 2.85 | 2.85 | 2.85 | 2.86 | 2.86 | 2.87 | 2.87 | 2.87 | 2.87 |
| 10.65 | 2.04 | 2.12 | 2.21 | 2.31 | 2.40 | 2.50 | 2.60 | 2.71 | 2.87 | 2.88 |
| 10.65 | 2.87 | 2.88 | 2.88 | 2.89 | 2.90 | 2.90 | 2.91 | 2.92 | 2.92 | 2.92 |
| 11.05 | 2.82 | 2.95 | 3.11 | 3.29 | 3.50 | 3.73 | 3.96 | 4.21 | 4.45 | 4.73 |
| 11.05 | 2.92 | 2.93 | 2.94 | 2.95 | 2.96 | 2.98 | 2.99 | 3.01 | 3.05 | 3.09 |
| 11.45 | 4.45 | 4.73 | 5.32 | 6.70 | 9.08 | 12.86 | 17.76 | 24.18 | 32.40 | 43.84 |
| 11.45 | 3.05 | 3.09 | 3.17 | 3.35 | 3.67 | 4.26 | 5.08 | 6.15 | 7.52 | 9.42 |
| 11.85 | 32.40 | 43.84 | 54.48 | 58.97 | 55.71 | 45.03 | 32.19 | 22.30 | 16.52 | 13.08 |
| 11.85 | 7.52 | 9.42 | 11.20 | 11.95 | 11.40 | 9.62 | 7.48 | 5.83 | 4.87 | 4.30 |
| 12.25 | 16.52 | 13.08 | 10.91 | 9.43 | 8.32 | 7.40 | 6.65 | 6.02 | 5.54 | 5.19 |
| 12.25 | 4.87 | 4.30 | 3.96 | 3.72 | 3.55 | 3.43 | 3.34 | 3.26 | 3.20 | 3.15 |
| 12.65 | 5.54 | 5.19 | 4.93 | 4.72 | 4.55 | 4.38 | 4.22 | 4.06 | 3.92 | 3.78 |
| 12.65 | 3.20 | 3.15 | 3.12 | 3.09 | 3.06 | 3.04 | 3.02 | 3.00 | 2.99 | 2.98 |
| 13.05 | 3.92 | 3.78 | 3.66 | 3.55 | 3.45 | 3.36 | 3.28 | 3.19 | 3.11 | 3.03 |
| 13.05 | 2.99 | 2.98 | 2.97 | 2.97 | 2.96 | 2.96 | 2.95 | 2.94 | 2.94 | 2.93 |
| 13.45 | 3.11 | 3.03 | 2.95 | 2.87 | 2.80 | 2.73 | 2.67 | 2.61 | 2.55 | 2.49 |
| 13.45 | 2.94 | 2.93 | 2.93 | 2.93 | 2.92 | 2.92 | 2.91 | 2.91 | 2.91 | 2.90 |
| 13.85 | 2.55 | 2.49 | 2.43 | 2.37 | 2.32 | 2.27 | 2.22 | 2.19 | 2.16 | 2.13 |
| 13.85 | 2.91 | 2.90 | 2.90 | 2.89 | 2.89 | 2.89 | 2.89 | 2.88 | 2.88 | 2.88 |
| 14.25 | 2.16 | 2.13 | 2.11 | 2.09 | 2.07 | 2.05 | 2.03 | 2.01 | 2.00 | 1.99 |
| 14.25 | 2.88 | 2.88 | 2.88 | 2.88 | 2.88 | 2.87 | 2.87 | 2.87 | 2.87 | 2.87 |
| 14.65 | 1.99 | 1.97 | 1.95 | 1.93 | 1.91 | 1.89 | 1.87 | 1.85 | 1.85 | 1.85 |
| 14.65 | 2.87 | 2.87 | 2.87 | 2.87 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 | 2.86 |

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 15.05 | CFS | 1.82 | 1.80 | 1.78 | 1.76 | 1.74 | 1.72 | 1.70 | 1.68 |
| 15.05 | ELEV | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.85 | 2.85 |
| 15.45 | CFS | 1.66 | 1.64 | 1.62 | 1.60 | 1.58 | 1.56 | 1.54 | 1.52 |
| 15.45 | ELEV | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.84 | 2.84 |
| 15.85 | CFS | 1.50 | 1.48 | 1.46 | 1.43 | 1.41 | 1.40 | 1.38 | 1.37 |
| 15.85 | ELEV | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 | 2.83 |
| 16.25 | CFS | 1.36 | 1.35 | 1.34 | 1.33 | 1.33 | 1.32 | 1.31 | 1.30 |
| 16.25 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 16.65 | CFS | 1.30 | 1.29 | 1.28 | 1.28 | 1.27 | 1.26 | 1.25 | 1.25 |
| 16.65 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 17.05 | CFS | 1.24 | 1.23 | 1.22 | 1.22 | 1.21 | 1.20 | 1.20 | 1.19 |
| 17.05 | ELEV | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 17.45 | CFS | 1.18 | 1.17 | 1.17 | 1.16 | 1.15 | 1.14 | 1.14 | 1.13 |
| 17.45 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 17.85 | CFS | 1.12 | 1.11 | 1.11 | 1.10 | 1.09 | 1.08 | 1.08 | 1.07 |
| 17.85 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 18.25 | CFS | 1.06 | 1.05 | 1.05 | 1.04 | 1.03 | 1.03 | 1.02 | 1.01 |
| 18.25 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 18.65 | CFS | 1.00 | 1.00 | .99 | .98 | .97 | .97 | .96 | .95 |
| 18.65 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 19.05 | CFS | .94 | .94 | .93 | .92 | .91 | .91 | .90 | .89 |
| 19.05 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 |
| 19.45 | CFS | .88 | .88 | .87 | .86 | .85 | .85 | .84 | .83 |
| 19.45 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.85 | CFS | .82 | .82 | .81 | .80 | .80 | .79 | .78 | .78 |
| 19.85 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 20.25 | CFS | .78 | .78 | .77 | .77 | .77 | .77 | .77 | .77 |
| 20.25 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 20.65 | CFS | .76 | .76 | .76 | .76 | .76 | .76 | .76 | .75 |
| 20.65 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 21.05 | CFS | .75 | .75 | .75 | .75 | .75 | .75 | .74 | .74 |
| 21.05 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 21.45 | CFS | .74 | .74 | .74 | .74 | .74 | .73 | .73 | .73 |
| 21.45 | ELEV | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.85 | CFS | .73 | .73 | .73 | .73 | .72 | .72 | .72 | .72 |
| 21.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.25 | CFS | .72 | .72 | .72 | .71 | .71 | .71 | .71 | .71 |
| 22.25 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.65 | CFS | .71 | .70 | .70 | .70 | .70 | .70 | .70 | .70 |
| 22.65 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.05 | CFS | .69 | .69 | .69 | .69 | .69 | .69 | .69 | .68 |
| 23.05 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.45 | CFS | .68 | .68 | .68 | .68 | .68 | .68 | .67 | .67 |
| 23.45 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.85 | CFS | .67 | .67 | .67 | .66 | | | | |
| 23.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 6.21 WATERSHED INCHES; 47 CFS-HRS; 3.9 ACRE-FEET.

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS VERSION
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| | | | | | | | | |
|---------------|-------------|---|---|---|----|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| FLOW(CFS) | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| DURATION(HRS) | 16 | | | | | | | |
| FLOW(CFS) | 1 TRUNCATED | | | | | | | |

--- STRUCTURE 1, ALTERNATE 1, STORM 99, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.23 | 19.0 | 5.28 |
| 13.70 | 3.5 | 2.97 |
| 13.80 | 3.3 | 2.95 |
| 13.90 | 3.1 | 2.94 |
| 14.00 | 2.9 | 2.93 |
| 14.10 | 2.7 | 2.92 |
| 14.20 | 2.6 | 2.91 |
| 14.30 | 2.5 | 2.90 |
| 14.40 | 2.4 | 2.90 |
| 14.50 | 2.3 | 2.89 |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =99
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|
| 4.25 CFS | .00 | .01 | .01 | .01 | .02 | .02 | .03 | .04 |
| 4.25 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 4.65 CFS | .04 | .05 | .05 | .06 | .06 | .07 | .08 | .08 |
| 4.65 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 5.05 CFS | .09 | .09 | .10 | .11 | .11 | .12 | .12 | .13 |
| 5.05 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 5.45 CFS | .14 | .14 | .15 | .16 | .16 | .17 | .18 | .18 |
| 5.45 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 5.85 CFS | .19 | .20 | .20 | .21 | .22 | .23 | .23 | .24 |
| 5.85 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 6.25 CFS | .25 | .25 | .26 | .27 | .28 | .28 | .29 | .30 |
| 6.25 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 6.65 CFS | .31 | .31 | .32 | .33 | .34 | .34 | .35 | .36 |
| 6.65 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 7.05 CFS | .37 | .37 | .38 | .39 | .40 | .40 | .41 | .42 |
| 7.05 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 |
| 7.45 CFS | .43 | .44 | .44 | .45 | .46 | .47 | .48 | .48 |
| 7.45 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 7.85 CFS | .49 | .50 | .51 | .52 | .53 | .54 | .55 | .56 |
| 7.85 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 8.25 CFS | .58 | .60 | .62 | .64 | .66 | .68 | .70 | .72 |
| 8.25 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 8.65 CFS | .74 | .76 | .78 | .80 | .83 | .85 | .87 | .90 |
| 8.65 ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 9.05 CFS | .92 | .94 | .96 | .98 | .99 | 1.00 | 1.01 | 1.02 |

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 PASS 6 JOB NO. 1 PAGE 30

| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.05 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 9.45 | CFS | 1.03 | 1.04 | 1.05 | 1.06 | 1.08 | 1.11 | 1.14 | 1.17 |
| 9.45 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 | 2.82 |
| 9.85 | CFS | 1.20 | 1.24 | 1.28 | 1.32 | 1.35 | 1.40 | 1.44 | 1.49 |
| 9.85 | ELEV | 2.82 | 2.83 | 2.83 | 2.83 | 2.83 | 2.84 | 2.84 | 2.84 |
| 10.25 | CFS | 1.54 | 1.60 | 1.66 | 1.71 | 1.77 | 1.83 | 1.89 | 1.96 |
| 10.25 | ELEV | 2.84 | 2.85 | 2.85 | 2.85 | 2.86 | 2.86 | 2.87 | 2.87 |
| 10.65 | CFS | 2.04 | 2.12 | 2.21 | 2.30 | 2.40 | 2.50 | 2.60 | 2.71 |
| 10.65 | ELEV | 2.87 | 2.88 | 2.88 | 2.89 | 2.90 | 2.90 | 2.91 | 2.91 |
| 11.05 | CFS | 2.82 | 2.95 | 3.11 | 3.29 | 3.50 | 3.72 | 3.95 | 4.13 |
| 11.05 | ELEV | 2.92 | 2.93 | 2.94 | 2.95 | 2.96 | 2.98 | 2.99 | 3.00 |
| 11.45 | CFS | 4.25 | 4.46 | 4.80 | 5.54 | 6.63 | 8.24 | 9.81 | 11.43 |
| 11.45 | ELEV | 3.02 | 3.05 | 3.10 | 3.20 | 3.34 | 3.54 | 3.78 | 4.04 |
| 11.85 | CFS | 12.76 | 13.71 | 14.84 | 16.02 | 17.19 | 18.13 | 18.70 | 18.94 |
| 11.85 | ELEV | 4.24 | 4.40 | 4.59 | 4.79 | 4.98 | 5.14 | 5.23 | 5.27 |
| 12.25 | CFS | 18.96 | 18.84 | 18.65 | 18.41 | 18.14 | 17.85 | 17.54 | 17.23 |
| 12.25 | ELEV | 5.28 | 5.26 | 5.22 | 5.18 | 5.14 | 5.09 | 5.04 | 4.99 |
| 12.65 | CFS | 16.90 | 16.58 | 16.25 | 15.93 | 15.61 | 15.30 | 14.99 | 14.68 |
| 12.65 | ELEV | 4.93 | 4.88 | 4.83 | 4.77 | 4.72 | 4.67 | 4.61 | 4.56 |
| 13.05 | CFS | 14.38 | 14.02 | 13.64 | 13.28 | 12.92 | 12.31 | 11.60 | 10.64 |
| 13.05 | ELEV | 4.51 | 4.45 | 4.39 | 4.33 | 4.27 | 4.17 | 4.06 | 3.91 |
| 13.45 | CFS | 9.30 | 7.71 | 5.70 | 3.79 | 1.95 | 3.53 | 1.93 | 3.30 |
| 13.45 | ELEV | 3.70 | 3.47 | 3.22 | 2.98 | 2.87 | 2.97 | 2.87 | 2.95 |
| 13.85 | CFS | 1.91 | 3.09 | 1.87 | 2.89 | 1.83 | 2.72 | 1.80 | 2.58 |
| 13.85 | ELEV | 2.87 | 2.94 | 2.86 | 2.93 | 2.86 | 2.92 | 2.86 | 2.91 |
| 14.25 | CFS | 1.79 | 2.48 | 1.80 | 2.39 | 1.79 | 2.31 | 1.79 | 2.23 |
| 14.25 | ELEV | 2.86 | 2.90 | 2.86 | 2.90 | 2.86 | 2.89 | 2.86 | 2.89 |
| 14.65 | CFS | 1.78 | 2.16 | 1.77 | 2.10 | 1.75 | 2.03 | 1.73 | 1.97 |
| 14.65 | ELEV | 2.86 | 2.88 | 2.86 | 2.88 | 2.86 | 2.87 | 2.86 | 2.87 |
| 15.05 | CFS | 1.71 | 1.91 | 1.68 | 1.86 | 1.65 | 1.81 | 1.63 | 1.75 |
| 15.05 | ELEV | 2.85 | 2.87 | 2.85 | 2.86 | 2.85 | 2.86 | 2.85 | 2.86 |
| 15.45 | CFS | 1.59 | 1.70 | 1.56 | 1.65 | 1.53 | 1.61 | 1.50 | 1.56 |
| 15.45 | ELEV | 2.85 | 2.85 | 2.85 | 2.85 | 2.84 | 2.85 | 2.84 | 2.85 |
| 15.85 | CFS | 1.46 | 1.51 | 1.42 | 1.47 | 1.39 | 1.42 | 1.36 | 1.39 |
| 15.85 | ELEV | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 | 2.84 | 2.83 | 2.83 |
| 16.25 | CFS | 1.34 | 1.37 | 1.32 | 1.35 | 1.31 | 1.33 | 1.30 | 1.32 |
| 16.25 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 16.65 | CFS | 1.29 | 1.30 | 1.27 | 1.29 | 1.26 | 1.27 | 1.25 | 1.25 |
| 16.65 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 17.05 | CFS | 1.23 | 1.24 | 1.22 | 1.22 | 1.20 | 1.21 | 1.19 | 1.19 |
| 17.05 | ELEV | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 17.45 | CFS | 1.18 | 1.18 | 1.16 | 1.16 | 1.15 | 1.15 | 1.13 | 1.13 |
| 17.45 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 17.85 | CFS | 1.12 | 1.12 | 1.10 | 1.10 | 1.09 | 1.09 | 1.08 | 1.07 |
| 17.85 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 18.25 | CFS | 1.06 | 1.06 | 1.05 | 1.04 | 1.03 | 1.03 | 1.02 | 1.01 |
| 18.25 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 18.65 | CFS | 1.00 | 1.00 | .99 | .98 | .97 | .97 | .96 | .95 |
| 18.65 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |

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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 19.05 | CFS | .94 | .94 | .93 | .92 | .91 | .91 | .90 | .89 |
| 19.05 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 |
| 19.45 | CFS | .88 | .88 | .87 | .86 | .85 | .85 | .84 | .83 |
| 19.45 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.85 | CFS | .82 | .82 | .81 | .80 | .80 | .79 | .78 | .78 |
| 19.85 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 20.25 | CFS | .78 | .78 | .77 | .77 | .77 | .77 | .77 | .77 |
| 20.25 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 20.65 | CFS | .76 | .76 | .76 | .76 | .76 | .76 | .76 | .75 |
| 20.65 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 21.05 | CFS | .75 | .75 | .75 | .75 | .75 | .75 | .74 | .74 |
| 21.05 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 21.45 | CFS | .74 | .74 | .74 | .74 | .74 | .73 | .73 | .73 |
| 21.45 | ELEV | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.85 | CFS | .73 | .73 | .73 | .73 | .72 | .72 | .72 | .72 |
| 21.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.25 | CFS | .72 | .72 | .72 | .71 | .71 | .71 | .71 | .71 |
| 22.25 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.65 | CFS | .71 | .70 | .70 | .70 | .70 | .70 | .70 | .70 |
| 22.65 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.05 | CFS | .69 | .69 | .69 | .69 | .69 | .69 | .69 | .68 |
| 23.05 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.45 | CFS | .68 | .68 | .68 | .68 | .68 | .68 | .67 | .67 |
| 23.45 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.85 | CFS | .67 | .67 | .67 | .66 | | | | |
| 23.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 6.23 WATERSHED INCHES; 47 CFS-HRS; 3.9 ACRE-FEET.

| | | | | | | | | |
|---------------|---|---|---|---|----|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| FLOW(CFS) | 5 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

DURATION(HRS) 16
 FLOW(CFS) 1 TRUNCATED

--- STRUCTURE 1, ALTERNATE 1, STORM 99, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.00 PEAK DISCHARGE(CFS) 59.0 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =99
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|
| HRS | 7.85 | CFS | .49 | .50 | .51 | .52 | .53 | .54 | .55 | .56 |
| 7.85 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 8.25 | CFS | .58 | .60 | .62 | .64 | .66 | .68 | .70 | .72 | |
| 8.25 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 8.65 | CFS | .74 | .76 | .78 | .81 | .83 | .85 | .87 | .90 | |

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SCS -

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| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8.65 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 9.05 | CFS | .92 | .94 | .96 | .98 | .99 | 1.00 | 1.01 | 1.02 |
| 9.05 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 9.45 | CFS | 1.03 | 1.04 | 1.05 | 1.06 | 1.08 | 1.11 | 1.14 | 1.17 |
| 9.45 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 | 2.82 |
| 9.85 | CFS | 1.20 | 1.24 | 1.28 | 1.32 | 1.36 | 1.40 | 1.44 | 1.49 |
| 9.85 | ELEV | 2.82 | 2.83 | 2.83 | 2.83 | 2.83 | 2.84 | 2.84 | 2.84 |
| 10.25 | CFS | 1.55 | 1.60 | 1.66 | 1.72 | 1.77 | 1.83 | 1.89 | 1.96 |
| 10.25 | ELEV | 2.84 | 2.85 | 2.85 | 2.85 | 2.86 | 2.86 | 2.87 | 2.87 |
| 10.65 | CFS | 2.04 | 2.12 | 2.21 | 2.31 | 2.40 | 2.50 | 2.60 | 2.71 |
| 10.65 | ELEV | 2.87 | 2.88 | 2.88 | 2.89 | 2.90 | 2.90 | 2.91 | 2.92 |
| 11.05 | CFS | 2.82 | 2.95 | 3.11 | 3.29 | 3.50 | 3.73 | 3.96 | 4.21 |
| 11.05 | ELEV | 2.92 | 2.93 | 2.94 | 2.95 | 2.96 | 2.98 | 2.99 | 3.01 |
| 11.45 | CFS | 4.45 | 4.73 | 5.32 | 6.70 | 9.08 | 12.86 | 17.76 | 24.18 |
| 11.45 | ELEV | 3.05 | 3.09 | 3.17 | 3.35 | 3.67 | 4.26 | 5.08 | 6.15 |
| 11.85 | CFS | 32.40 | 43.84 | 54.48 | 58.97 | 55.71 | 45.03 | 32.19 | 22.30 |
| 11.85 | ELEV | 7.52 | 9.42 | 11.20 | 11.95 | 11.40 | 9.62 | 7.48 | 5.83 |
| 12.25 | CFS | 16.52 | 13.08 | 10.91 | 9.43 | 8.32 | 7.40 | 6.65 | 6.02 |
| 12.25 | ELEV | 4.87 | 4.30 | 3.96 | 3.72 | 3.55 | 3.43 | 3.34 | 3.26 |
| 12.65 | CFS | 5.54 | 5.19 | 4.93 | 4.72 | 4.55 | 4.38 | 4.22 | 4.06 |
| 12.65 | ELEV | 3.20 | 3.15 | 3.12 | 3.09 | 3.06 | 3.04 | 3.02 | 3.00 |
| 13.05 | CFS | 3.92 | 3.78 | 3.66 | 3.55 | 3.45 | 3.36 | 3.28 | 3.19 |
| 13.05 | ELEV | 2.99 | 2.98 | 2.97 | 2.97 | 2.96 | 2.96 | 2.95 | 2.94 |
| 13.45 | CFS | 3.11 | 3.03 | 2.95 | 2.87 | 2.80 | 2.73 | 2.67 | 2.61 |
| 13.45 | ELEV | 2.94 | 2.93 | 2.93 | 2.93 | 2.92 | 2.92 | 2.91 | 2.91 |
| 13.85 | CFS | 2.55 | 2.49 | 2.43 | 2.37 | 2.32 | 2.27 | 2.22 | 2.19 |
| 13.85 | ELEV | 2.91 | 2.90 | 2.90 | 2.89 | 2.89 | 2.89 | 2.89 | 2.88 |
| 14.25 | CFS | 2.16 | 2.13 | 2.11 | 2.09 | 2.07 | 2.05 | 2.03 | 2.01 |
| 14.25 | ELEV | 2.88 | 2.88 | 2.88 | 2.88 | 2.88 | 2.87 | 2.87 | 2.87 |
| 14.65 | CFS | 1.99 | 1.97 | 1.95 | 1.93 | 1.91 | 1.89 | 1.87 | 1.85 |
| 14.65 | ELEV | 2.87 | 2.87 | 2.87 | 2.87 | 2.87 | 2.87 | 2.86 | 2.86 |
| 15.05 | CFS | 1.82 | 1.80 | 1.78 | 1.76 | 1.74 | 1.72 | 1.70 | 1.68 |
| 15.05 | ELEV | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.85 | 2.85 |
| 15.45 | CFS | 1.66 | 1.64 | 1.62 | 1.60 | 1.58 | 1.56 | 1.54 | 1.52 |
| 15.45 | ELEV | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.84 | 2.84 |
| 15.85 | CFS | 1.50 | 1.48 | 1.46 | 1.43 | 1.41 | 1.40 | 1.38 | 1.37 |
| 15.85 | ELEV | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 | 2.83 |
| 16.25 | CFS | 1.36 | 1.35 | 1.34 | 1.33 | 1.33 | 1.32 | 1.31 | 1.30 |
| 16.25 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 16.65 | CFS | 1.30 | 1.29 | 1.28 | 1.28 | 1.27 | 1.26 | 1.25 | 1.25 |
| 16.65 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 17.05 | CFS | 1.24 | 1.23 | 1.22 | 1.22 | 1.21 | 1.20 | 1.20 | 1.19 |
| 17.05 | ELEV | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 17.45 | CFS | 1.18 | 1.17 | 1.17 | 1.16 | 1.15 | 1.14 | 1.14 | 1.13 |
| 17.45 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 17.85 | CFS | 1.12 | 1.11 | 1.11 | 1.10 | 1.09 | 1.08 | 1.08 | 1.07 |
| 17.85 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 18.25 | CFS | 1.06 | 1.05 | 1.05 | 1.04 | 1.03 | 1.03 | 1.02 | 1.01 |
| 18.25 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |

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 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 18.65 | CFS | 1.00 | 1.00 | .99 | .98 | .97 | .97 | .96 | .95 |
| 18.65 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 19.05 | CFS | .94 | .94 | .93 | .92 | .91 | .91 | .90 | .89 |
| 19.05 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 |
| 19.45 | CFS | .88 | .88 | .87 | .86 | .85 | .85 | .84 | .83 |
| 19.45 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.85 | CFS | .82 | .82 | .81 | .80 | .80 | .79 | .78 | .78 |
| 19.85 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 20.25 | CFS | .78 | .78 | .77 | .77 | .77 | .77 | .77 | .77 |
| 20.25 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 20.65 | CFS | .76 | .76 | .76 | .76 | .76 | .76 | .76 | .75 |
| 20.65 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 21.05 | CFS | .75 | .75 | .75 | .75 | .75 | .75 | .74 | .74 |
| 21.05 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 21.45 | CFS | .74 | .74 | .74 | .74 | .74 | .73 | .73 | .73 |
| 21.45 | ELEV | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.85 | CFS | .73 | .73 | .73 | .73 | .72 | .72 | .72 | .72 |
| 21.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.25 | CFS | .72 | .72 | .72 | .71 | .71 | .71 | .71 | .71 |
| 22.25 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.65 | CFS | .71 | .70 | .70 | .70 | .70 | .70 | .70 | .70 |
| 22.65 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.05 | CFS | .69 | .69 | .69 | .69 | .69 | .69 | .69 | .68 |
| 23.05 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.45 | CFS | .68 | .68 | .68 | .68 | .68 | .68 | .67 | .67 |
| 23.45 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.85 | CFS | .67 | .67 | .67 | .66 | | | | |
| 23.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 6.21 WATERSHED INCHES; 47 CFS-HRS; 3.9 ACRE-FEET.

| | | | | | | | | |
|---------------|---|---|---|---|----|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| FLOW(CFS) | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

DURATION(HRS) 16
 FLOW(CFS) 1 TRUNCATED

--- STRUCTURE 1, ALTERNATE 1, STORM 99, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 6

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
 A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
 F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

| XSECTION/
STRUCTURE
ID | STANDARD
CONTROL
OPERATION | DRAINAGE
AREA
(SQ MI) | RUNOFF
AMOUNT
(IN) | PEAK DISCHARGE | | | |
|------------------------------|----------------------------------|-----------------------------|--------------------------|-------------------|--------------|---------------|---------------|
| | | | | ELEVATION
(FT) | TIME
(HR) | RATE
(CFS) | RATE
(CSM) |

RAINFALL OF 3.11 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.
 RAINFALL NUMBER 2, ARC 2
 MAIN TIME INCREMENT .050 HOURS

ALTERNATE 1 STORM 2

| | | | | | | | |
|-------------|--------|-----|------|------|-------|----|--------|
| STRUCTURE 1 | RUNOFF | .01 | 1.53 | --- | 12.02 | 15 | 1500.0 |
| STRUCTURE 1 | RESVOR | .01 | 1.51 | 3.99 | 12.11 | 11 | 1100.0 |
| STRUCTURE 1 | RUNOFF | .01 | 1.53 | --- | 12.02 | 15 | 1500.0 |
| STRUCTURE 1 | ADDHYD | .02 | 1.52 | 6.35 | 12.03 | 25 | 1250.0 |

RAINFALL OF 4.00 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.

ALTERNATE 1 STORM 5

| | | | | | | | |
|-------------|--------|-----|------|------|-------|----|--------|
| STRUCTURE 1 | RUNOFF | .01 | 2.28 | --- | 12.01 | 22 | 2200.0 |
| STRUCTURE 1 | RESVOR | .01 | 2.33 | 4.29 | 12.15 | 13 | 1300.0 |
| STRUCTURE 1 | RUNOFF | .01 | 2.28 | --- | 12.01 | 22 | 2200.0 |
| STRUCTURE 1 | ADDHYD | .02 | 2.31 | 7.86 | 12.02 | 34 | 1700.0 |

RAINFALL OF 4.78 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.

ALTERNATE 1 STORM 10

| | | | | | | | |
|-------------|--------|-----|------|------|-------|----|--------|
| STRUCTURE 1 | RUNOFF | .01 | 2.97 | --- | 12.01 | 29 | 2900.0 |
| STRUCTURE 1 | RESVOR | .01 | 2.97 | 4.48 | 12.17 | 14 | 1400.0 |
| STRUCTURE 1 | RUNOFF | .01 | 2.97 | --- | 12.01 | 29 | 2900.0 |
| STRUCTURE 1 | ADDHYD | .02 | 2.97 | 9.14 | 12.02 | 42 | 2100.0 |

RAINFALL OF 5.99 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.

ALTERNATE 1 STORM 25

| | | | | | | | |
|-------------|--------|-----|------|------|-------|----|--------|
| STRUCTURE 1 | RUNOFF | .01 | 4.08 | --- | 12.01 | 39 | 3900.0 |
| STRUCTURE 1 | RESVOR | .01 | 4.08 | 4.74 | 12.20 | 16 | 1600.0 |
| STRUCTURE 1 | RUNOFF | .01 | 4.08 | --- | 12.01 | 39 | 3900.0 |

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
 A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
 F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

| XSECTION/
STRUCTURE
ID | STANDARD
CONTROL
OPERATION | DRAINAGE
AREA
(SQ MI) | RUNOFF
AMOUNT
(IN) | PEAK DISCHARGE | | | |
|------------------------------|----------------------------------|-----------------------------|--------------------------|-------------------|--------------|---------------|---------------|
| | | | | ELEVATION
(FT) | TIME
(HR) | RATE
(CFS) | RATE
(CSM) |

ALTERNATE 1 STORM 25

| | | | | | | | |
|-------------|--------|-----|------|-------|-------|----|--------|
| STRUCTURE 1 | ADDHYD | .02 | 4.08 | 11.06 | 12.01 | 54 | 2700.0 |
|-------------|--------|-----|------|-------|-------|----|--------|

RAINFALL OF 7.05 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.

ALTERNATE 1 STORM 50

| | | | | | | | |
|-------------|--------|-----|------|-------|-------|----|--------|
| STRUCTURE 1 | RUNOFF | .01 | 5.07 | --- | 12.00 | 49 | 4900.0 |
| STRUCTURE 1 | RESVOR | .01 | 5.07 | 4.99 | 12.22 | 17 | 1700.0 |
| STRUCTURE 1 | RUNOFF | .01 | 5.07 | --- | 12.00 | 49 | 4900.0 |
| STRUCTURE 1 | ADDHYD | .02 | 5.07 | 12.73 | 12.01 | 64 | 3200.0 |

RAINFALL OF 8.26 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.

ALTERNATE 1 STORM 99

| | | | | | | | |
|-------------|--------|-----|------|-------|-------|----|--------|
| STRUCTURE 1 | RUNOFF | .01 | 6.21 | --- | 12.00 | 59 | 5900.0 |
| STRUCTURE 1 | RESVOR | .01 | 6.23 | 5.28 | 12.23 | 19 | 1900.0 |
| STRUCTURE 1 | RUNOFF | .01 | 6.21 | --- | 12.00 | 59 | 5900.0 |
| STRUCTURE 1 | ADDHYD | .02 | 6.22 | 14.65 | 12.01 | 75 | 3750.0 |

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
 QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

| XSECTION/
STRUCTURE
ID | DRAINAGE
AREA
(SQ MI) | STORM NUMBERS..... | | | | |
|------------------------------|-----------------------------|--------------------|----|----|----|----|
| | | 2 | 5 | 10 | 25 | 50 |
| STRUCTURE 1 | .02 | | | | | |
| ----- | | | | | | |
| ALTERNATE 1 | | 25 | 34 | 42 | 54 | 64 |

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
 QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

| XSECTION/
STRUCTURE
ID | DRAINAGE
AREA
(SQ MI) | STORM NUMBERS..... |
|------------------------------|-----------------------------|--------------------|
| | | 99 |
| STRUCTURE 1 | .02 | |
| ----- | | |
| ALTERNATE 1 | | 75 |

SUMMARY TABLE #3 / 3A DATA REORDERED IN DESCENDING ORDER FOR ECON2.

ECON2 DATA FILE

ECON2
TITLE JONES POINT PARK EXISTING CONDITIONS
TITLE FILENAME: JPPCLOG.dat 9/7/05 BY: TLH
FLOW-FREQ -1 75. 64. 54. 42. 34.ALT 1 1
FLOW-FREQ -1 25. ALT 1 2

TR20 ----- SCS -
09/08/** JONES POINT PARK EXISTING CONDITIONS VERSION
FILENAME: JPPCLOG.dat 9/7/05 BY: TLH 2.04TEST

END OF 1 JOBS IN THIS RUN

SCS TR-20, VERSION 2.04TEST
FILES

INPUT = C:\JPPPROP.DAT , GIVEN DATA FILE
OUTPUT = C:\JPPPROP.OUT , DATED 09/08/**,11:52:48

FILES GENERATED - DATED 09/08/**,11:52:48

FILE C:\JPPPROP.TEC CONTAINS ECON2 INFORMATION

FILE C:\JPPPROP.TRD CONTAINS READHD INFORMATION

FILE C:\JPPPROP.TMG CONTAINS MESSAGE + WARNING INFORMATION

TOTAL NUMBER OF WARNINGS = 13, MESSAGES = 0

JOB ENDED AT 11:52:48
*** TR-20 RUN COMPLETED ***

Routing for proposed culvert 1,
fields, 2-24" RCPs

*****80-80 LIST OF INPUT DATA FOR TR-20 HYDROLOGY*****

```

JOB TR-20          ECON          SUMMARY  NOPLOTS
TITLE 004 JONES POINT PARK EXISTING CONDITIONS
TITLE 000 FILENAME: JPPCUL1P.dat    9/16/05  BY: TLH
 3 STRUCT        01
 8                2.75          0.0          0.0000
 8                3.00          4.8          0.0003
 8                3.25          6.6          0.0088
 8                3.50          9.5          0.0255
 8                3.75         11.7          0.0504
 8                4.00         14.2          0.0836
 8                4.25         16.7          0.1669
 8                4.50         19.4          0.3335
 8                4.75         24.8          0.5501
 9 ENDTBL
 6 RUNOFF 1      01      1 0.0118      84.1          0.20          1 1 1 1 1 1  DA-1 D
 6 RESVOR 2      01 1   2 2.75          1 1 1 1 1 1
 6 RUNOFF 1      01      3 0.0118      84.1          0.20          1 1 1 1 1 1  DA-1 D
 6 ADDHYD 4      01 2 3 4
  ENDDATA
 7 INCREM 6          0.05
 7 COMPUT 7      01      01 0.00          3.11          1.00          2 2   1   2   2-YR
  ENDCMP 1
 7 COMPUT 7      01      01 0.00          4.00          1.00          2 2   1   5   5-YR
  ENDCMP 1
 7 COMPUT 7      01      01 0.00          4.78          1.00          2 2   1  10  10-YR
  ENDCMP 1
 7 COMPUT 7      01      01 0.00          5.99          1.00          2 2   1  25  25-YR
  ENDCMP 1
 7 COMPUT 7      01      01 0.00          7.05          1.00          2 2   1  50  50-YR
  ENDCMP 1
 7 COMPUT 7      01      01 0.00          8.26          1.00          2 2   1  99  100-YR
  ENDCMP 1
  ENDJOB 2

```

*****END OF 80-80 LIST*****

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS VERSION
 09/16/** FILENAME: JPPCUL1P.dat 9/16/05 BY: TLH 2.04TEST
 11:42:54 PASS 1 JOB NO. 1 PAGE 1

EXECUTIVE CONTROL INCREM MAIN TIME INCREMENT = .050 HOURS

EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 2-YR
 STARTING TIME = .00 RAIN DEPTH = 3.11 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. = 2 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.01 15.9 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 2
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| HRS | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV |
|-------|-------|------|-------|------|-------|------|-------|------|------|------|
| 11.10 | .47 | 2.77 | .50 | 2.78 | .54 | 2.78 | .59 | 2.78 | .64 | 2.79 |
| 11.10 | .47 | 2.77 | .50 | 2.78 | .54 | 2.78 | .59 | 2.78 | .64 | 2.79 |
| 11.50 | .87 | 2.80 | .99 | 2.80 | 1.28 | 2.82 | 1.79 | 2.84 | 2.65 | 2.95 |
| 11.50 | .87 | 2.80 | .99 | 2.80 | 1.28 | 2.82 | 1.79 | 2.84 | 2.65 | 2.95 |
| 11.90 | 2.80 | 2.80 | 2.80 | 2.80 | 2.82 | 2.82 | 2.84 | 2.84 | 2.89 | 3.09 |
| 11.90 | 2.80 | 2.80 | 2.80 | 2.80 | 2.82 | 2.82 | 2.84 | 2.84 | 2.89 | 3.09 |
| 11.90 | 10.89 | 3.66 | 14.12 | 3.99 | 15.82 | 4.16 | 15.33 | 3.84 | 9.09 | 6.35 |
| 11.90 | 10.89 | 3.66 | 14.12 | 3.99 | 15.82 | 4.16 | 15.33 | 3.84 | 9.09 | 6.35 |
| 11.90 | 3.66 | 3.66 | 3.99 | 3.99 | 4.16 | 4.16 | 4.11 | 3.84 | 3.47 | 3.22 |
| 11.90 | 3.66 | 3.66 | 3.99 | 3.99 | 4.16 | 4.16 | 4.11 | 3.84 | 3.47 | 3.22 |
| 12.30 | 3.82 | 3.82 | 3.22 | 3.22 | 2.81 | 2.81 | 2.50 | 2.23 | 2.01 | 1.83 |
| 12.30 | 3.82 | 3.82 | 3.22 | 3.22 | 2.81 | 2.81 | 2.50 | 2.23 | 2.01 | 1.83 |
| 12.30 | 2.95 | 2.95 | 2.92 | 2.92 | 2.90 | 2.90 | 2.88 | 2.87 | 2.85 | 2.85 |
| 12.30 | 2.95 | 2.95 | 2.92 | 2.92 | 2.90 | 2.90 | 2.88 | 2.87 | 2.85 | 2.85 |
| 12.70 | 1.58 | 1.58 | 1.51 | 1.51 | 1.45 | 1.45 | 1.39 | 1.34 | 1.30 | 1.25 |
| 12.70 | 1.58 | 1.58 | 1.51 | 1.51 | 1.45 | 1.45 | 1.39 | 1.34 | 1.30 | 1.25 |
| 12.70 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 |
| 12.70 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 |
| 13.10 | 1.17 | 1.17 | 1.13 | 1.13 | 1.10 | 1.10 | 1.07 | 1.04 | 1.02 | .99 |
| 13.10 | 1.17 | 1.17 | 1.13 | 1.13 | 1.10 | 1.10 | 1.07 | 1.04 | 1.02 | .99 |
| 13.10 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 |
| 13.10 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 |
| 13.50 | .94 | .94 | .92 | .92 | .89 | .89 | .87 | .85 | .83 | .81 |
| 13.50 | .94 | .94 | .92 | .92 | .89 | .89 | .87 | .85 | .83 | .81 |
| 13.50 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 |
| 13.50 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 |
| 13.90 | .78 | .78 | .76 | .76 | .74 | .74 | .73 | .71 | .70 | .69 |
| 13.90 | .78 | .78 | .76 | .76 | .74 | .74 | .73 | .71 | .70 | .69 |
| 13.90 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 13.90 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 14.30 | .67 | .67 | .66 | .66 | .66 | .66 | .65 | .64 | .64 | .63 |
| 14.30 | .67 | .67 | .66 | .66 | .66 | .66 | .65 | .64 | .64 | .63 |
| 14.30 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 14.30 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 14.70 | .62 | .62 | .61 | .61 | .61 | .61 | .60 | .60 | .59 | .58 |
| 14.70 | .62 | .62 | .61 | .61 | .61 | .61 | .60 | .60 | .59 | .58 |
| 14.70 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 14.70 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.10 | .57 | .57 | .57 | .57 | .56 | .56 | .55 | .55 | .54 | .53 |
| 15.10 | .57 | .57 | .57 | .57 | .56 | .56 | .55 | .55 | .54 | .53 |
| 15.10 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.10 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.50 | .52 | .52 | .51 | .51 | .51 | .51 | .50 | .50 | .50 | .50 |
| 15.50 | .52 | .52 | .51 | .51 | .51 | .51 | .50 | .50 | .50 | .50 |
| 15.50 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.50 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 1.61 WATERSHED INCHES; 12 CFS-HRS; 1.0 ACRE-FEET.

DURATION(HRS) 2 4 5
 FLOW(CFS) 1 1 0

--- STRUCTURE 1, ALTERNATE 1, STORM 2, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.09 | 13.0 | 3.88 |
| 12.45 | 3.7 | 2.95 |
| 12.55 | 3.1 | 2.91 |
| 12.65 | 2.7 | 2.89 |
| 12.75 | 2.4 | 2.87 |
| 12.85 | 2.2 | 2.86 |
| 12.95 | 2.0 | 2.85 |
| 13.05 | 1.8 | 2.84 |
| 13.15 | 1.7 | 2.84 |
| 13.25 | 1.5 | 2.83 |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 2
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|------------|------|------|-------|-------|-------|-------|-------|------|
| 8.30 CFS | .00 | .01 | .01 | .01 | .01 | .02 | .02 | .02 |
| 8.30 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 8.70 CFS | .02 | .03 | .03 | .03 | .04 | .04 | .05 | .05 |
| 8.70 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 9.10 CFS | .05 | .06 | .06 | .07 | .07 | .07 | .08 | .08 |
| 9.10 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 9.50 CFS | .08 | .09 | .09 | .09 | .10 | .10 | .11 | .12 |
| 9.50 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.76 | 2.76 | 2.76 | 2.76 |
| 9.90 CFS | .12 | .13 | .14 | .14 | .15 | .16 | .17 | .18 |
| 9.90 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 10.30 CFS | .19 | .20 | .21 | .22 | .24 | .25 | .26 | .28 |
| 10.30 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 10.70 CFS | .29 | .31 | .33 | .35 | .37 | .39 | .42 | .44 |
| 10.70 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 11.10 CFS | .47 | .50 | .54 | .59 | .64 | .69 | .74 | .80 |
| 11.10 ELEV | 2.77 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 |
| 11.50 CFS | .86 | .99 | 1.27 | 1.78 | 2.64 | 3.81 | 4.99 | 5.93 |
| 11.50 ELEV | 2.80 | 2.80 | 2.82 | 2.84 | 2.89 | 2.95 | 3.03 | 3.16 |
| 11.90 CFS | 7.78 | 9.95 | 11.50 | 12.62 | 12.98 | 12.41 | 11.06 | 9.27 |
| 11.90 ELEV | 3.35 | 3.55 | 3.73 | 3.84 | 3.88 | 3.82 | 3.68 | 3.48 |
| 12.30 CFS | 6.64 | 4.63 | 1.50 | 3.74 | 1.07 | 3.11 | .79 | 2.66 |
| 12.30 ELEV | 3.25 | 2.99 | 2.83 | 2.95 | 2.81 | 2.91 | 2.79 | 2.89 |
| 12.70 CFS | .67 | 2.37 | .63 | 2.16 | .63 | 1.97 | .61 | 1.81 |
| 12.70 ELEV | 2.78 | 2.87 | 2.78 | 2.86 | 2.78 | 2.85 | 2.78 | 2.84 |
| 13.10 CFS | .60 | 1.66 | .60 | 1.54 | .60 | 1.43 | .60 | 1.34 |
| 13.10 ELEV | 2.78 | 2.84 | 2.78 | 2.83 | 2.78 | 2.82 | 2.78 | 2.82 |
| 13.50 CFS | .59 | 1.25 | .59 | 1.16 | .58 | 1.09 | .57 | 1.02 |
| 13.50 ELEV | 2.78 | 2.81 | 2.78 | 2.81 | 2.78 | 2.81 | 2.78 | 2.80 |
| 13.90 CFS | .56 | .96 | .55 | .90 | .54 | .86 | .54 | .82 |
| 13.90 ELEV | 2.78 | 2.80 | 2.78 | 2.80 | 2.78 | 2.79 | 2.78 | 2.79 |
| 14.30 CFS | .54 | .79 | .54 | .76 | .54 | .74 | .54 | .71 |
| 14.30 ELEV | 2.78 | 2.79 | 2.78 | 2.79 | 2.78 | 2.79 | 2.78 | 2.79 |
| 14.70 CFS | .54 | .69 | .54 | .67 | .53 | .65 | .53 | .63 |

TR20

SCS -

09/16/** JONES POINT PARK EXISTING CONDITIONS VERSION
11:42:54 FILENAME: JPPCUL1P.dat 9/16/05 BY: TLH 2.04TEST
PASS 1 JOB NO. 1 PAGE 3

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 14.70 | ELEV | 2.78 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.10 | CFS | .52 | .61 | .51 | .59 | .51 | .58 | .50 | .56 |
| 15.10 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.50 | CFS | .49 | .54 | .48 | .53 | .47 | .51 | .46 | .50 |
| 15.50 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.77 | 2.78 | 2.77 | 2.78 |
| 15.90 | CFS | .45 | .48 | .44 | .47 | .43 | .45 | .42 | .45 |
| 15.90 | ELEV | 2.77 | 2.78 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 16.30 | CFS | .42 | .44 | .42 | .43 | .41 | .43 | .41 | .42 |
| 16.30 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 16.70 | CFS | .41 | .42 | .40 | .41 | .40 | .41 | .39 | .40 |
| 16.70 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 17.10 | CFS | .39 | .40 | .39 | .39 | .38 | .39 | .38 | .38 |
| 17.10 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 17.50 | CFS | .37 | .38 | .37 | .37 | .37 | .37 | .36 | .36 |
| 17.50 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 17.90 | CFS | .36 | .36 | .35 | .35 | .35 | .35 | .34 | .34 |
| 17.90 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 18.30 | CFS | .34 | .34 | .33 | .33 | .33 | .33 | .33 | .32 |
| 18.30 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 18.70 | CFS | .32 | .32 | .32 | .31 | .31 | .31 | .31 | .31 |
| 18.70 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 19.10 | CFS | .30 | .30 | .30 | .30 | .29 | .29 | .29 | .29 |
| 19.10 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.76 |
| 19.50 | CFS | .28 | .28 | .28 | .28 | .27 | .27 | .27 | .27 |
| 19.50 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 19.90 | CFS | .26 | .26 | .26 | .26 | .26 | .25 | .25 | .25 |
| 19.90 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 20.30 | CFS | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 |
| 20.30 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 20.70 | CFS | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .24 |
| 20.70 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 21.10 | CFS | .24 | .24 | .24 | .24 | .24 | .24 | .24 | .24 |
| 21.10 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 21.50 | CFS | .24 | .24 | .24 | .24 | .24 | .24 | .24 | .24 |
| 21.50 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 21.90 | CFS | .24 | .24 | .24 | .24 | .24 | .24 | .23 | .23 |
| 21.90 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 22.30 | CFS | .23 | .23 | .23 | .23 | .23 | .23 | .23 | .23 |
| 22.30 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 22.70 | CFS | .23 | .23 | .23 | .23 | .23 | .23 | .23 | .23 |
| 22.70 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 23.10 | CFS | .23 | .23 | .23 | .23 | .22 | .22 | .22 | .22 |
| 23.10 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 23.50 | CFS | .22 | .22 | .22 | .22 | .22 | .22 | .22 | .22 |
| 23.50 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 23.90 | CFS | .22 | .22 | .22 | .21 | .16 | .10 | .06 | .03 |
| 23.90 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.75 | 2.75 |
| 24.30 | CFS | .02 | .01 | .00 | | | | | |
| 24.30 | ELEV | 2.75 | 2.75 | 2.75 | | | | | |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS VERSION
 09/16/** FILENAME: JPPCUL1P.dat 9/16/05 BY: TLH 2.04TEST
 11:42:54 PASS 1 JOB NO. 1 PAGE 4

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 1.56 WATERSHED INCHES; 12 CFS-HRS; 1.0 ACRE-FEET.

DURATION(HRS) 2 4 4
 FLOW(CFS) 1 1 0

--- STRUCTURE 1, ALTERNATE 1, STORM 2, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.01 15.9 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 2
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|------|------|------|
| 11.10 | CFS | .47 | .50 | .54 | .59 | .64 | .69 | .74 | .80 |
| 11.10 | ELEV | 2.77 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 |
| 11.50 | CFS | .87 | .99 | 1.28 | 1.79 | 2.65 | 3.83 | 5.43 | 7.64 |
| 11.50 | ELEV | 2.80 | 2.80 | 2.82 | 2.84 | 2.89 | 2.95 | 3.09 | 3.34 |
| 11.90 | CFS | 10.89 | 14.12 | 15.82 | 15.33 | 12.58 | 9.09 | 6.35 | 4.76 |
| 11.90 | ELEV | 3.66 | 3.99 | 4.16 | 4.11 | 3.84 | 3.47 | 3.22 | 3.00 |
| 12.30 | CFS | 3.82 | 3.22 | 2.81 | 2.50 | 2.23 | 2.01 | 1.83 | 1.69 |
| 12.30 | ELEV | 2.95 | 2.92 | 2.90 | 2.88 | 2.87 | 2.85 | 2.85 | 2.84 |
| 12.70 | CFS | 1.58 | 1.51 | 1.45 | 1.39 | 1.34 | 1.30 | 1.25 | 1.21 |
| 12.70 | ELEV | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 |
| 13.10 | CFS | 1.17 | 1.13 | 1.10 | 1.07 | 1.04 | 1.02 | .99 | .97 |
| 13.10 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 |
| 13.50 | CFS | .94 | .92 | .89 | .87 | .85 | .83 | .81 | .80 |
| 13.50 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 |
| 13.90 | CFS | .78 | .76 | .74 | .73 | .71 | .70 | .69 | .68 |
| 13.90 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 14.30 | CFS | .67 | .66 | .66 | .65 | .64 | .64 | .63 | .63 |
| 14.30 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 14.70 | CFS | .62 | .61 | .61 | .60 | .60 | .59 | .58 | .58 |
| 14.70 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.10 | CFS | .57 | .57 | .56 | .55 | .55 | .54 | .53 | .53 |
| 15.10 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 15.50 | CFS | .52 | .51 | .51 | .50 | .50 | | | |
| 15.50 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 1.61 WATERSHED INCHES; 12 CFS-HRS; 1.0 ACRE-FEET.

DURATION(HRS) 2 4 5
 FLOW(CFS) 1 1 0

--- STRUCTURE 1, ALTERNATE 1, STORM 2, HYDROGRAPH ADDED TO READHD FILE ---

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS VERSION
 09/16/** FILENAME: JPPCUL1P.dat 9/16/05 BY: TLH 2.04TEST
 11:42:54 PASS 2 JOB NO. 1 PAGE 5

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 1

EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 5-YR
 STARTING TIME = .00 RAIN DEPTH = 4.00 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. = 5 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.01 23.2 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 5
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| HRS | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV |
|-------|------|------|------|------|-------|------|-------|------|-------|------|
| 10.55 | .49 | 2.78 | .52 | 2.78 | .54 | 2.78 | .57 | 2.78 | .60 | 2.78 |
| 10.55 | .73 | 2.78 | .77 | 2.78 | .81 | 2.78 | .85 | 2.78 | .91 | 2.78 |
| 10.95 | .73 | 2.79 | .77 | 2.79 | .81 | 2.79 | .85 | 2.79 | .91 | 2.80 |
| 10.95 | .73 | 2.79 | .77 | 2.79 | .81 | 2.79 | .85 | 2.79 | .91 | 2.80 |
| 11.35 | 1.20 | 2.81 | 1.29 | 2.82 | 1.38 | 2.82 | 1.47 | 2.83 | 1.67 | 2.84 |
| 11.35 | 1.20 | 2.81 | 1.29 | 2.82 | 1.38 | 2.82 | 1.47 | 2.83 | 1.67 | 2.84 |
| 11.35 | 1.20 | 2.81 | 1.29 | 2.82 | 1.38 | 2.82 | 1.47 | 2.83 | 1.67 | 2.84 |
| 11.75 | 6.15 | 2.81 | 8.54 | 2.82 | 11.73 | 2.82 | 16.49 | 2.83 | 21.09 | 2.86 |
| 11.75 | 6.15 | 2.81 | 8.54 | 2.82 | 11.73 | 2.82 | 16.49 | 2.83 | 21.09 | 2.86 |
| 11.75 | 6.15 | 2.81 | 8.54 | 2.82 | 11.73 | 2.82 | 16.49 | 2.83 | 21.09 | 2.86 |
| 11.75 | 6.15 | 2.81 | 8.54 | 2.82 | 11.73 | 2.82 | 16.49 | 2.83 | 21.09 | 2.86 |
| 12.15 | 3.19 | 2.81 | 3.42 | 2.82 | 3.75 | 2.82 | 4.23 | 2.83 | 4.58 | 2.86 |
| 12.15 | 3.19 | 2.81 | 3.42 | 2.82 | 3.75 | 2.82 | 4.23 | 2.83 | 4.58 | 2.86 |
| 12.15 | 3.19 | 2.81 | 3.42 | 2.82 | 3.75 | 2.82 | 4.23 | 2.83 | 4.58 | 2.86 |
| 12.15 | 3.19 | 2.81 | 3.42 | 2.82 | 3.75 | 2.82 | 4.23 | 2.83 | 4.58 | 2.86 |
| 12.55 | 2.83 | 2.81 | 2.56 | 2.82 | 2.36 | 2.82 | 2.22 | 2.83 | 2.11 | 2.86 |
| 12.55 | 2.83 | 2.81 | 2.56 | 2.82 | 2.36 | 2.82 | 2.22 | 2.83 | 2.11 | 2.86 |
| 12.55 | 2.83 | 2.81 | 2.56 | 2.82 | 2.36 | 2.82 | 2.22 | 2.83 | 2.11 | 2.86 |
| 12.55 | 2.83 | 2.81 | 2.56 | 2.82 | 2.36 | 2.82 | 2.22 | 2.83 | 2.11 | 2.86 |
| 12.95 | 1.81 | 2.81 | 1.75 | 2.82 | 1.68 | 2.82 | 1.63 | 2.83 | 1.57 | 2.86 |
| 12.95 | 1.81 | 2.81 | 1.75 | 2.82 | 1.68 | 2.82 | 1.63 | 2.83 | 1.57 | 2.86 |
| 12.95 | 1.81 | 2.81 | 1.75 | 2.82 | 1.68 | 2.82 | 1.63 | 2.83 | 1.57 | 2.86 |
| 12.95 | 1.81 | 2.81 | 1.75 | 2.82 | 1.68 | 2.82 | 1.63 | 2.83 | 1.57 | 2.86 |
| 13.35 | 1.41 | 2.81 | 1.38 | 2.82 | 1.34 | 2.82 | 1.31 | 2.83 | 1.28 | 2.86 |
| 13.35 | 1.41 | 2.81 | 1.38 | 2.82 | 1.34 | 2.82 | 1.31 | 2.83 | 1.28 | 2.86 |
| 13.35 | 1.41 | 2.81 | 1.38 | 2.82 | 1.34 | 2.82 | 1.31 | 2.83 | 1.28 | 2.86 |
| 13.35 | 1.41 | 2.81 | 1.38 | 2.82 | 1.34 | 2.82 | 1.31 | 2.83 | 1.28 | 2.86 |
| 13.75 | 1.16 | 2.81 | 1.13 | 2.82 | 1.11 | 2.82 | 1.08 | 2.83 | 1.06 | 2.86 |
| 13.75 | 1.16 | 2.81 | 1.13 | 2.82 | 1.11 | 2.82 | 1.08 | 2.83 | 1.06 | 2.86 |
| 13.75 | 1.16 | 2.81 | 1.13 | 2.82 | 1.11 | 2.82 | 1.08 | 2.83 | 1.06 | 2.86 |
| 13.75 | 1.16 | 2.81 | 1.13 | 2.82 | 1.11 | 2.82 | 1.08 | 2.83 | 1.06 | 2.86 |
| 14.15 | .97 | 2.81 | .95 | 2.82 | .94 | 2.82 | .93 | 2.83 | .92 | 2.86 |
| 14.15 | .97 | 2.81 | .95 | 2.82 | .94 | 2.82 | .93 | 2.83 | .92 | 2.86 |
| 14.15 | .97 | 2.81 | .95 | 2.82 | .94 | 2.82 | .93 | 2.83 | .92 | 2.86 |
| 14.15 | .97 | 2.81 | .95 | 2.82 | .94 | 2.82 | .93 | 2.83 | .92 | 2.86 |
| 14.55 | .88 | 2.81 | .88 | 2.82 | .87 | 2.82 | .86 | 2.83 | .85 | 2.86 |
| 14.55 | .88 | 2.81 | .88 | 2.82 | .87 | 2.82 | .86 | 2.83 | .85 | 2.86 |
| 14.55 | .88 | 2.81 | .88 | 2.82 | .87 | 2.82 | .86 | 2.83 | .85 | 2.86 |
| 14.55 | .88 | 2.81 | .88 | 2.82 | .87 | 2.82 | .86 | 2.83 | .85 | 2.86 |
| 14.95 | .82 | 2.79 | .81 | 2.79 | .80 | 2.79 | .79 | 2.79 | .78 | 2.79 |
| 14.95 | .82 | 2.79 | .81 | 2.79 | .80 | 2.79 | .79 | 2.79 | .78 | 2.79 |
| 14.95 | .82 | 2.79 | .81 | 2.79 | .80 | 2.79 | .79 | 2.79 | .78 | 2.79 |
| 14.95 | .82 | 2.79 | .81 | 2.79 | .80 | 2.79 | .79 | 2.79 | .78 | 2.79 |
| 15.35 | .75 | 2.79 | .74 | 2.79 | .73 | 2.79 | .72 | 2.79 | .71 | 2.79 |
| 15.35 | .75 | 2.79 | .74 | 2.79 | .73 | 2.79 | .72 | 2.79 | .71 | 2.79 |
| 15.35 | .75 | 2.79 | .74 | 2.79 | .73 | 2.79 | .72 | 2.79 | .71 | 2.79 |
| 15.35 | .75 | 2.79 | .74 | 2.79 | .73 | 2.79 | .72 | 2.79 | .71 | 2.79 |
| 15.75 | .67 | 2.78 | .67 | 2.78 | .66 | 2.78 | .65 | 2.78 | .64 | 2.78 |
| 15.75 | .67 | 2.78 | .67 | 2.78 | .66 | 2.78 | .65 | 2.78 | .64 | 2.78 |
| 15.75 | .67 | 2.78 | .67 | 2.78 | .66 | 2.78 | .65 | 2.78 | .64 | 2.78 |
| 15.75 | .67 | 2.78 | .67 | 2.78 | .66 | 2.78 | .65 | 2.78 | .64 | 2.78 |
| 16.15 | .61 | 2.78 | .60 | 2.78 | .60 | 2.78 | .59 | 2.78 | .59 | 2.78 |
| 16.15 | .61 | 2.78 | .60 | 2.78 | .60 | 2.78 | .59 | 2.78 | .59 | 2.78 |
| 16.15 | .61 | 2.78 | .60 | 2.78 | .60 | 2.78 | .59 | 2.78 | .59 | 2.78 |
| 16.15 | .61 | 2.78 | .60 | 2.78 | .60 | 2.78 | .59 | 2.78 | .59 | 2.78 |
| 16.55 | .58 | 2.78 | .57 | 2.78 | .57 | 2.78 | .57 | 2.78 | .56 | 2.78 |
| 16.55 | .58 | 2.78 | .57 | 2.78 | .57 | 2.78 | .57 | 2.78 | .56 | 2.78 |
| 16.55 | .58 | 2.78 | .57 | 2.78 | .57 | 2.78 | .57 | 2.78 | .56 | 2.78 |
| 16.55 | .58 | 2.78 | .57 | 2.78 | .57 | 2.78 | .57 | 2.78 | .56 | 2.78 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 16.55 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 16.95 | CFS | .55 | .55 | .55 | .54 | .54 | .54 | .53 | .53 |
| 16.95 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.35 | CFS | .53 | .52 | .52 | .52 | .51 | .51 | .51 | .50 |
| 17.35 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.75 | CFS | .50 | .50 | | | | | | |
| 17.75 | ELEV | 2.78 | 2.78 | | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.38 WATERSHED INCHES; 18 CFS-HRS; 1.5 ACRE-FEET.

| | | | | |
|---------------|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 7 |
| FLOW(CFS) | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 5, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.12 | 16.2 | 4.20 |
| 13.83 | 1.1 | 2.81 |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 5
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | | |
|-------|------|------|------|-------|-------|-------|-------|-------|-------|
| 7.00 | CFS | .00 | .01 | .01 | .01 | .01 | .02 | .02 | .02 |
| 7.00 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 7.40 | CFS | .02 | .03 | .03 | .03 | .03 | .04 | .04 | .04 |
| 7.40 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 7.80 | CFS | .05 | .05 | .05 | .05 | .06 | .06 | .06 | .07 |
| 7.80 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 8.20 | CFS | .07 | .08 | .08 | .08 | .09 | .09 | .10 | .10 |
| 8.20 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.76 | 2.76 |
| 8.60 | CFS | .11 | .12 | .12 | .13 | .13 | .14 | .15 | .15 |
| 8.60 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 9.00 | CFS | .16 | .17 | .18 | .18 | .19 | .19 | .20 | .20 |
| 9.00 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 9.40 | CFS | .21 | .21 | .22 | .22 | .23 | .23 | .24 | .25 |
| 9.40 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 9.80 | CFS | .26 | .27 | .28 | .30 | .31 | .32 | .33 | .35 |
| 9.80 | ELEV | 2.76 | 2.76 | 2.76 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 10.20 | CFS | .36 | .38 | .40 | .42 | .43 | .45 | .47 | .49 |
| 10.20 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.78 |
| 10.60 | CFS | .52 | .54 | .57 | .60 | .63 | .66 | .70 | .73 |
| 10.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 |
| 11.00 | CFS | .77 | .81 | .85 | .91 | .97 | 1.04 | 1.12 | 1.20 |
| 11.00 | ELEV | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.81 | 2.81 |
| 11.40 | CFS | 1.29 | 1.38 | 1.47 | 1.66 | 2.14 | 2.98 | 4.31 | 5.21 |
| 11.40 | ELEV | 2.82 | 2.82 | 2.83 | 2.84 | 2.86 | 2.91 | 2.97 | 3.06 |
| 11.80 | CFS | 6.51 | 8.43 | 10.63 | 12.97 | 14.74 | 15.67 | 16.19 | 16.13 |
| 11.80 | ELEV | 3.24 | 3.41 | 3.63 | 3.88 | 4.05 | 4.15 | 4.20 | 4.19 |

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| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|------|------|------|------|
| 12.20 | CFS | 15.55 | 14.66 | 12.97 | 10.69 | 8.15 | 5.71 | 3.08 | 2.89 |
| 12.20 | ELEV | 4.13 | 4.05 | 3.88 | 3.64 | 3.38 | 3.13 | 2.91 | 2.90 |
| 12.60 | CFS | 2.51 | 2.42 | 2.17 | 2.16 | 1.98 | 1.99 | 1.84 | 1.85 |
| 12.60 | ELEV | 2.88 | 2.88 | 2.86 | 2.86 | 2.85 | 2.85 | 2.85 | 2.85 |
| 13.00 | CFS | 1.71 | 1.72 | 1.60 | 1.60 | 1.50 | 1.51 | 1.43 | 1.44 |
| 13.00 | ELEV | 2.84 | 2.84 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 |
| 13.40 | CFS | 1.36 | 1.37 | 1.29 | 1.29 | 1.23 | 1.23 | 1.17 | 1.17 |
| 13.40 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 | 2.81 | 2.81 | 2.81 |
| 13.80 | CFS | 1.12 | 1.12 | 1.07 | 1.07 | 1.02 | 1.02 | .98 | .98 |
| 13.80 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 |
| 14.20 | CFS | .94 | .95 | .92 | .93 | .90 | .91 | .89 | .89 |
| 14.20 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 14.60 | CFS | .87 | .87 | .85 | .85 | .84 | .84 | .82 | .82 |
| 14.60 | ELEV | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 15.00 | CFS | .80 | .80 | .79 | .78 | .77 | .76 | .75 | .75 |
| 15.00 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 15.40 | CFS | .73 | .73 | .72 | .71 | .70 | .69 | .68 | .68 |
| 15.40 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 15.80 | CFS | .66 | .66 | .65 | .64 | .63 | .62 | .61 | .61 |
| 15.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 16.20 | CFS | .60 | .60 | .59 | .59 | .59 | .58 | .58 | .58 |
| 16.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 16.60 | CFS | .57 | .57 | .57 | .57 | .56 | .56 | .55 | .55 |
| 16.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.00 | CFS | .55 | .55 | .54 | .54 | .54 | .53 | .53 | .53 |
| 17.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.40 | CFS | .52 | .52 | .52 | .51 | .51 | .51 | .50 | .50 |
| 17.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.80 | CFS | .50 | .50 | .49 | .49 | .49 | .48 | .48 | .48 |
| 17.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.77 | 2.77 |
| 18.20 | CFS | .47 | .47 | .47 | .46 | .46 | .46 | .45 | .45 |
| 18.20 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 18.60 | CFS | .45 | .44 | .44 | .44 | .43 | .43 | .43 | .42 |
| 18.60 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 19.00 | CFS | .42 | .42 | .41 | .41 | .41 | .40 | .40 | .40 |
| 19.00 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 19.40 | CFS | .40 | .39 | .39 | .39 | .38 | .38 | .38 | .37 |
| 19.40 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 19.80 | CFS | .37 | .37 | .36 | .36 | .36 | .35 | .35 | .35 |
| 19.80 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 20.20 | CFS | .35 | .35 | .34 | .34 | .34 | .34 | .34 | .34 |
| 20.20 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 20.60 | CFS | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 |
| 20.60 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 21.00 | CFS | .34 | .33 | .33 | .33 | .33 | .33 | .33 | .33 |
| 21.00 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 21.40 | CFS | .33 | .33 | .33 | .33 | .33 | .33 | .33 | .33 |
| 21.40 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 21.80 | CFS | .33 | .32 | .32 | .32 | .32 | .32 | .32 | .32 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 21.80 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 22.20 | CFS | .32 | .32 | .32 | .32 | .32 | .32 | .32 | .32 |
| 22.20 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 22.60 | CFS | .32 | .31 | .31 | .31 | .31 | .31 | .31 | .31 |
| 22.60 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 23.00 | CFS | .31 | .31 | .31 | .31 | .31 | .31 | .31 | .31 |
| 23.00 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 23.40 | CFS | .31 | .30 | .30 | .30 | .30 | .30 | .30 | .30 |
| 23.40 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 23.80 | CFS | .30 | .30 | .30 | .30 | .30 | .28 | .22 | .14 |
| 23.80 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.76 | 2.76 | 2.76 |
| 24.20 | CFS | .08 | .04 | .02 | .01 | .01 | .00 | | |
| 24.20 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.38 WATERSHED INCHES; 18 CFS-HRS; 1.5 ACRE-FEET.

| | | | | |
|---------------|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 7 |
| FLOW(CFS) | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 5, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.01 PEAK DISCHARGE(CFS) 23.2 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 5
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HRS | 10.55 | 10.55 | 10.95 | 10.95 | 11.35 | 11.35 | 11.75 | 11.75 | 12.15 | 12.15 | 12.55 | 12.55 | 12.95 | 12.95 | 13.35 | 13.35 | 13.75 | 13.75 | 14.15 | 14.15 | 14.55 |
| CFS | .49 | .73 | 1.20 | 2.81 | 6.15 | 3.19 | 13.13 | 3.89 | 2.83 | 2.90 | 1.81 | 2.84 | 1.41 | 2.82 | 1.16 | 2.81 | .97 | 2.80 | .88 | | |
| ELEV | 2.78 | 2.79 | 2.81 | 2.82 | 8.54 | 3.42 | 9.14 | 3.47 | 2.56 | 2.88 | 1.75 | 2.84 | 1.38 | 2.82 | 1.13 | 2.81 | .95 | 2.80 | .88 | | |
| CFS | .52 | .77 | 1.29 | 2.82 | 8.54 | 3.42 | 9.14 | 3.47 | 2.56 | 2.88 | 1.75 | 2.84 | 1.38 | 2.82 | 1.13 | 2.81 | .95 | 2.80 | .88 | | |
| ELEV | .54 | .81 | 1.38 | 2.82 | 11.73 | 3.75 | 6.81 | 3.27 | 2.36 | 2.87 | 1.68 | 2.84 | 1.34 | 2.82 | 1.11 | 2.81 | .94 | 2.80 | .87 | | |
| CFS | .57 | .85 | 1.47 | 2.83 | 16.49 | 4.23 | 5.43 | 3.09 | 2.22 | 2.87 | 1.63 | 2.83 | 1.31 | 2.82 | 1.08 | 2.81 | .93 | 2.80 | .86 | | |
| ELEV | .60 | .91 | 1.67 | 2.84 | 21.09 | 4.58 | 4.57 | 2.99 | 2.11 | 2.86 | 1.57 | 2.83 | 1.28 | 2.82 | 1.06 | 2.80 | .92 | 2.80 | .85 | | |
| CFS | .63 | .97 | 2.15 | 2.86 | 23.19 | 4.68 | 3.98 | 2.96 | 2.02 | 2.86 | 1.53 | 2.83 | 1.24 | 2.81 | 1.03 | 2.80 | .91 | 2.80 | .84 | | |
| ELEV | .66 | 1.04 | 2.99 | 2.91 | 22.19 | 4.63 | 3.52 | 2.93 | 1.95 | 2.85 | 1.49 | 2.83 | 1.21 | 2.81 | 1.01 | 2.80 | .90 | 2.80 | .83 | | |
| CFS | .70 | 1.12 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .79 | 1.12 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| CFS | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1.45 | 2.83 | 1.18 | 2.81 | .98 | 2.80 | .89 | 2.80 | .82 | | |
| ELEV | .89 | 1.18 | 4.34 | 2.98 | 18.18 | 4.39 | 3.14 | 2.91 | 1.88 | 2.85 | 1. | | | | | | | | | | |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
 09/16/** FILENAME: JPPCUL1P.dat 9/16/05 BY: TLH VERSION
 11:42:54 PASS 2 JOB NO. 1 2.04TEST
 PAGE 9

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 14.55 | ELEV | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 14.95 | CFS | .82 | .81 | .80 | .79 | .78 | .77 | .76 | .75 |
| 14.95 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 15.35 | CFS | .75 | .74 | .73 | .72 | .71 | .70 | .69 | .68 |
| 15.35 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 15.75 | CFS | .67 | .67 | .66 | .65 | .64 | .63 | .62 | .61 |
| 15.75 | ELEV | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 16.15 | CFS | .61 | .60 | .60 | .59 | .59 | .59 | .58 | .58 |
| 16.15 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 16.55 | CFS | .58 | .57 | .57 | .57 | .56 | .56 | .56 | .55 |
| 16.55 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 16.95 | CFS | .55 | .55 | .55 | .54 | .54 | .54 | .53 | .53 |
| 16.95 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.35 | CFS | .53 | .52 | .52 | .52 | .51 | .51 | .51 | .50 |
| 17.35 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.75 | CFS | .50 | .50 | | | | | | |
| 17.75 | ELEV | 2.78 | 2.78 | | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 2.38 WATERSHED INCHES; 18 CFS-HRS; 1.5 ACRE-FEET.

| | | | | |
|---------------|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 7 |
| FLOW(CFS) | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 5, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 2

EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 10-YR
 STARTING TIME = .00 RAIN DEPTH = 4.78 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =10 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.01 | 29.9 | (RUNOFF) |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =10
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 10.05 | CFS | .50 | .52 | .54 | .56 | .58 | .61 | .63 | .66 |
| 10.05 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 10.45 | CFS | .68 | .71 | .74 | .77 | .80 | .84 | .88 | .92 |
| 10.45 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 |
| 10.85 | CFS | .97 | 1.02 | 1.06 | 1.11 | 1.16 | 1.23 | 1.30 | 1.38 |
| 10.85 | ELEV | 2.80 | 2.80 | 2.81 | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 |

| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.25 | CFS | 1.48 | 1.59 | 1.70 | 1.81 | 1.93 | 2.06 | 2.32 | 2.97 |
| 11.25 | ELEV | 2.83 | 2.83 | 2.84 | 2.84 | 2.85 | 2.86 | 2.87 | 2.90 |
| 11.65 | CFS | 4.11 | 5.90 | 8.29 | 11.41 | 15.52 | 21.57 | 27.35 | 29.86 |
| 11.65 | ELEV | 2.96 | 3.15 | 3.40 | 3.72 | 4.13 | 4.60 | 4.87 | 4.98 |
| 12.05 | CFS | 28.41 | 23.17 | 16.70 | 11.59 | 8.62 | 6.85 | 5.76 | 5.00 |
| 12.05 | ELEV | 4.92 | 4.67 | 4.25 | 3.74 | 3.42 | 3.27 | 3.13 | 3.03 |
| 12.45 | CFS | 4.42 | 3.94 | 3.54 | 3.21 | 2.96 | 2.77 | 2.64 | 2.53 |
| 12.45 | ELEV | 2.98 | 2.96 | 2.93 | 2.92 | 2.90 | 2.89 | 2.89 | 2.88 |
| 12.85 | CFS | 2.43 | 2.35 | 2.26 | 2.18 | 2.10 | 2.03 | 1.97 | 1.91 |
| 12.85 | ELEV | 2.88 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 | 2.85 | 2.85 |
| 13.25 | CFS | 1.86 | 1.81 | 1.76 | 1.72 | 1.68 | 1.63 | 1.59 | 1.55 |
| 13.25 | ELEV | 2.85 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 | 2.83 |
| 13.65 | CFS | 1.51 | 1.47 | 1.44 | 1.41 | 1.38 | 1.34 | 1.31 | 1.28 |
| 13.65 | ELEV | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 14.05 | CFS | 1.25 | 1.23 | 1.20 | 1.18 | 1.17 | 1.15 | 1.14 | 1.13 |
| 14.05 | ELEV | 2.82 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 14.45 | CFS | 1.12 | 1.11 | 1.10 | 1.09 | 1.08 | 1.07 | 1.06 | 1.04 |
| 14.45 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 |
| 14.85 | CFS | 1.03 | 1.02 | 1.01 | 1.00 | .99 | .98 | .97 | .96 |
| 14.85 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 15.25 | CFS | .95 | .94 | .92 | .91 | .90 | .89 | .88 | .87 |
| 15.25 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 15.65 | CFS | .86 | .85 | .84 | .82 | .81 | .80 | .79 | .78 |
| 15.65 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.05 | CFS | .77 | .76 | .75 | .75 | .74 | .73 | .73 | .73 |
| 16.05 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.45 | CFS | .72 | .72 | .71 | .71 | .71 | .70 | .70 | .70 |
| 16.45 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.85 | CFS | .69 | .69 | .68 | .68 | .68 | .67 | .67 | .66 |
| 16.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 |
| 17.25 | CFS | .66 | .66 | .65 | .65 | .64 | .64 | .64 | .63 |
| 17.25 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.65 | CFS | .63 | .62 | .62 | .62 | .61 | .61 | .60 | .60 |
| 17.65 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.05 | CFS | .60 | .59 | .59 | .58 | .58 | .58 | .57 | .57 |
| 18.05 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.45 | CFS | .56 | .56 | .56 | .55 | .55 | .54 | .54 | .54 |
| 18.45 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.85 | CFS | .53 | .53 | .52 | .52 | .52 | .51 | .51 | .50 |
| 18.85 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 19.25 | CFS | .50 | .50 | | | | | | |
| 19.25 | ELEV | 2.78 | 2.78 | | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 3.08 WATERSHED INCHES; 23 CFS-HRS; 1.9 ACRE-FEET.

| | | | | | |
|---------------|---|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 9 |
| FLOW(CFS) | 2 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 10, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.14 | 18.1 | 4.38 |
| 12.70 | 3.6 | 2.94 |
| 12.80 | 3.3 | 2.92 |
| 12.90 | 3.0 | 2.91 |
| 13.00 | 2.8 | 2.89 |
| 13.10 | 2.6 | 2.88 |
| 13.20 | 2.4 | 2.87 |
| 13.30 | 2.2 | 2.87 |
| 13.40 | 2.1 | 2.86 |
| 14.60 | 1.2 | 2.81 |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =10
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 6.15 CFS | .00 | .01 | .01 | .01 | .01 | .02 | .02 | .02 |
| 6.15 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 6.55 CFS | .03 | .03 | .03 | .04 | .04 | .04 | .05 | .05 |
| 6.55 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 6.95 CFS | .05 | .06 | .06 | .06 | .07 | .07 | .07 | .08 |
| 6.95 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 7.35 CFS | .08 | .09 | .09 | .09 | .10 | .10 | .10 | .11 |
| 7.35 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.76 | 2.76 | 2.76 | 2.76 |
| 7.75 CFS | .11 | .12 | .12 | .12 | .13 | .13 | .13 | .14 |
| 7.75 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 8.15 CFS | .14 | .15 | .16 | .16 | .17 | .18 | .18 | .19 |
| 8.15 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 8.55 CFS | .20 | .21 | .22 | .23 | .24 | .24 | .25 | .26 |
| 8.55 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 8.95 CFS | .27 | .28 | .29 | .30 | .31 | .32 | .33 | .33 |
| 8.95 ELEV | 2.76 | 2.76 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 9.35 CFS | .34 | .34 | .35 | .35 | .36 | .37 | .38 | .39 |
| 9.35 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 9.75 CFS | .40 | .42 | .43 | .45 | .46 | .48 | .50 | .52 |
| 9.75 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 |
| 10.15 CFS | .54 | .56 | .58 | .60 | .63 | .66 | .68 | .71 |
| 10.15 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 |
| 10.55 CFS | .74 | .77 | .80 | .84 | .88 | .92 | .97 | 1.01 |
| 10.55 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 |
| 10.95 CFS | 1.06 | 1.11 | 1.16 | 1.22 | 1.30 | 1.38 | 1.48 | 1.59 |
| 10.95 ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 | 2.83 | 2.83 |
| 11.35 CFS | 1.70 | 1.81 | 1.93 | 2.05 | 2.31 | 2.96 | 4.09 | 5.13 |
| 11.35 ELEV | 2.84 | 2.84 | 2.85 | 2.86 | 2.87 | 2.90 | 2.96 | 3.05 |
| 11.75 CFS | 6.33 | 8.23 | 10.37 | 12.74 | 14.94 | 16.53 | 17.42 | 17.97 |
| 11.75 ELEV | 3.21 | 3.39 | 3.60 | 3.85 | 4.07 | 4.23 | 4.32 | 4.37 |
| 12.15 CFS | 18.09 | 17.84 | 17.34 | 16.71 | 15.51 | 14.33 | 11.91 | 9.55 |

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 12.15 | ELEV | 4.38 | 4.36 | 4.31 | 4.25 | 4.13 | 4.01 | 3.77 | 3.51 |
| 12.55 | CFS | 6.51 | 4.17 | 2.07 | 3.62 | 1.85 | 3.28 | 1.73 | 3.01 |
| 12.55 | ELEV | 3.24 | 2.97 | 2.86 | 2.94 | 2.85 | 2.92 | 2.84 | 2.91 |
| 12.95 | CFS | 1.64 | 2.77 | 1.55 | 2.55 | 1.48 | 2.37 | 1.42 | 2.22 |
| 12.95 | ELEV | 2.84 | 2.89 | 2.83 | 2.88 | 2.83 | 2.87 | 2.82 | 2.87 |
| 13.35 | CFS | 1.38 | 2.08 | 1.34 | 1.95 | 1.29 | 1.83 | 1.24 | 1.73 |
| 13.35 | ELEV | 2.82 | 2.86 | 2.82 | 2.85 | 2.82 | 2.85 | 2.81 | 2.84 |
| 13.75 | CFS | 1.20 | 1.63 | 1.17 | 1.54 | 1.13 | 1.46 | 1.09 | 1.38 |
| 13.75 | ELEV | 2.81 | 2.83 | 2.81 | 2.83 | 2.81 | 2.83 | 2.81 | 2.82 |
| 14.15 | CFS | 1.06 | 1.32 | 1.04 | 1.28 | 1.03 | 1.24 | 1.02 | 1.21 |
| 14.15 | ELEV | 2.81 | 2.82 | 2.80 | 2.82 | 2.80 | 2.81 | 2.80 | 2.81 |
| 14.55 | CFS | 1.01 | 1.17 | 1.00 | 1.14 | .99 | 1.11 | .97 | 1.08 |
| 14.55 | ELEV | 2.80 | 2.81 | 2.80 | 2.81 | 2.80 | 2.81 | 2.80 | 2.81 |
| 14.95 | CFS | .96 | 1.05 | .94 | 1.03 | .93 | 1.00 | .91 | .97 |
| 14.95 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 15.35 | CFS | .89 | .95 | .87 | .92 | .85 | .89 | .83 | .87 |
| 15.35 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.79 | 2.80 | 2.79 | 2.80 |
| 15.75 | CFS | .82 | .85 | .80 | .82 | .78 | .80 | .75 | .77 |
| 15.75 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.15 | CFS | .74 | .76 | .73 | .75 | .72 | .74 | .71 | .73 |
| 16.15 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.55 | CFS | .71 | .72 | .70 | .71 | .69 | .70 | .69 | .69 |
| 16.55 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.95 | CFS | .68 | .68 | .67 | .68 | .66 | .67 | .66 | .66 |
| 16.95 | ELEV | 2.79 | 2.79 | 2.78 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.35 | CFS | .65 | .65 | .64 | .64 | .63 | .63 | .63 | .63 |
| 17.35 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.75 | CFS | .62 | .62 | .61 | .61 | .60 | .60 | .60 | .59 |
| 17.75 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.15 | CFS | .59 | .59 | .58 | .58 | .57 | .57 | .56 | .56 |
| 18.15 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.55 | CFS | .56 | .55 | .55 | .55 | .54 | .54 | .53 | .53 |
| 18.55 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.95 | CFS | .52 | .52 | .52 | .51 | .51 | .50 | .50 | .50 |
| 18.95 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 19.35 | CFS | .49 | .49 | .48 | .48 | .48 | .47 | .47 | .46 |
| 19.35 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.77 | 2.77 | 2.77 | 2.77 |
| 19.75 | CFS | .46 | .46 | .45 | .45 | .44 | .44 | .44 | .43 |
| 19.75 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 20.15 | CFS | .43 | .43 | .43 | .43 | .42 | .42 | .42 | .42 |
| 20.15 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 20.55 | CFS | .42 | .42 | .42 | .42 | .42 | .42 | .42 | .42 |
| 20.55 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 20.95 | CFS | .41 | .41 | .41 | .41 | .41 | .41 | .41 | .41 |
| 20.95 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 21.35 | CFS | .41 | .41 | .41 | .41 | .41 | .40 | .40 | .40 |
| 21.35 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 21.75 | CFS | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 |
| 21.75 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
 09/16/** FILENAME: JPPCUL1P.dat 9/16/05 BY: TLH VERSION
 11:42:54 PASS 3 JOB NO. 1 2.04TEST
 PAGE 13

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 22.15 | CFS | .40 | .40 | .39 | .39 | .39 | .39 | .39 | .39 |
| 22.15 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 22.55 | CFS | .39 | .39 | .39 | .39 | .39 | .39 | .38 | .38 |
| 22.55 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 22.95 | CFS | .38 | .38 | .38 | .38 | .38 | .38 | .38 | .38 |
| 22.95 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 23.35 | CFS | .38 | .38 | .38 | .37 | .37 | .37 | .37 | .37 |
| 23.35 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 23.75 | CFS | .37 | .37 | .37 | .37 | .37 | .37 | .34 | .27 |
| 23.75 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.76 |
| 24.15 | CFS | .17 | .09 | .05 | .03 | .01 | .01 | .00 | .00 |
| 24.15 | ELEV | 2.76 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 3.04 WATERSHED INCHES; 23 CFS-HRS; 1.9 ACRE-FEET.

| | | | | | |
|---------------|---|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 9 |
| FLOW(CFS) | 2 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 10, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.01 PEAK DISCHARGE(CFS) 29.9 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =10
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HRS | 10.05 | 10.05 | 10.45 | 10.45 | 10.85 | 10.85 | 11.25 | 11.25 | 11.65 | 11.65 | 12.05 | 12.05 | 12.45 | 12.45 | 12.85 | 12.85 | 13.25 | 13.25 | 13.65 | 13.65 | 14.05 | 14.05 |
| CFS | .50 | .52 | .68 | .71 | .97 | 1.02 | 1.48 | 1.59 | 2.83 | 2.83 | 28.41 | 28.41 | 4.42 | 4.42 | 2.43 | 2.35 | 2.85 | 2.85 | 1.51 | 1.47 | 1.25 | 1.23 |
| ELEV | .52 | .54 | .71 | .74 | 1.02 | 1.06 | 1.59 | 1.70 | 2.83 | 2.84 | 23.17 | 23.17 | 3.94 | 3.94 | 2.35 | 2.26 | 2.84 | 2.84 | 1.47 | 1.44 | 1.23 | 1.20 |
| ELEV | .56 | .58 | .77 | .77 | 1.11 | 1.16 | 1.81 | 1.81 | 2.84 | 2.84 | 11.59 | 11.59 | 3.21 | 3.21 | 2.18 | 2.18 | 2.84 | 2.84 | 1.41 | 1.41 | 1.18 | 1.18 |
| ELEV | .61 | .63 | .84 | .84 | 1.23 | 1.23 | 1.93 | 1.93 | 2.85 | 2.85 | 8.62 | 8.62 | 2.96 | 2.96 | 2.10 | 2.10 | 2.84 | 2.84 | 1.38 | 1.34 | 1.17 | 1.15 |
| ELEV | .63 | .66 | .88 | .88 | 1.30 | 1.30 | 2.06 | 2.06 | 2.86 | 2.86 | 6.85 | 6.85 | 2.77 | 2.77 | 2.03 | 2.03 | 2.84 | 2.84 | 1.34 | 1.31 | 1.15 | 1.14 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.32 | 2.32 | 2.87 | 2.87 | 5.76 | 5.76 | 2.64 | 2.64 | 1.97 | 1.97 | 2.81 | 2.81 | 1.31 | 1.31 | 1.14 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | .92 | .92 | 1.38 | 1.38 | 2.97 | 2.97 | 2.90 | 2.90 | 5.00 | 5.00 | 2.53 | 2.53 | 1.91 | 1.91 | 2.81 | 2.81 | 1.31 | 1.31 | 1.13 | 1.13 |
| ELEV | .66 | .66 | | | | | | | | | | | | | | | | | | | | |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
 09/16/** FILENAME: JPPCUL1P.dat 9/16/05 BY: TLH VERSION
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 14.45 | CFS | 1.12 | 1.11 | 1.10 | 1.09 | 1.08 | 1.07 | 1.06 | 1.04 |
| 14.45 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 |
| 14.85 | CFS | 1.03 | 1.02 | 1.01 | 1.00 | .99 | .98 | .97 | .96 |
| 14.85 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 15.25 | CFS | .95 | .94 | .92 | .91 | .90 | .89 | .88 | .87 |
| 15.25 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 15.65 | CFS | .86 | .85 | .84 | .82 | .81 | .80 | .79 | .78 |
| 15.65 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.05 | CFS | .77 | .76 | .75 | .75 | .74 | .73 | .73 | .73 |
| 16.05 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.45 | CFS | .72 | .72 | .71 | .71 | .71 | .70 | .70 | .70 |
| 16.45 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 16.85 | CFS | .69 | .69 | .68 | .68 | .68 | .67 | .67 | .66 |
| 16.85 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 |
| 17.25 | CFS | .66 | .66 | .65 | .65 | .64 | .64 | .64 | .63 |
| 17.25 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 17.65 | CFS | .63 | .62 | .62 | .62 | .61 | .61 | .60 | .60 |
| 17.65 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.05 | CFS | .60 | .59 | .59 | .58 | .58 | .58 | .57 | .57 |
| 18.05 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.45 | CFS | .56 | .56 | .56 | .55 | .55 | .54 | .54 | .54 |
| 18.45 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 18.85 | CFS | .53 | .53 | .52 | .52 | .52 | .51 | .51 | .50 |
| 18.85 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 19.25 | CFS | .50 | .50 | | | | | | |
| 19.25 | ELEV | 2.78 | 2.78 | | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 3.08 WATERSHED INCHES; 23 CFS-HRS; 1.9 ACRE-FEET.

| | | | | | |
|---------------|---|---|---|---|---|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 9 |
| FLOW(CFS) | 2 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 10, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 3

EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 25-YR
 STARTING TIME = .00 RAIN DEPTH = 5.99 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =25 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.00 PEAK DISCHARGE(CFS) 40.3 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =25
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| HRS | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV |
|-------|-------|------|-------|------|-------|------|-------|------|
| 9.00 | .50 | 2.78 | .51 | 2.78 | .53 | 2.78 | .54 | 2.78 |
| 9.00 | .58 | 2.78 | .59 | 2.78 | .60 | 2.78 | .61 | 2.78 |
| 9.40 | .68 | 2.78 | .71 | 2.78 | .73 | 2.78 | .75 | 2.78 |
| 9.80 | .89 | 2.79 | .92 | 2.79 | .96 | 2.79 | 1.00 | 2.79 |
| 10.20 | 1.20 | 2.80 | 1.24 | 2.80 | 1.30 | 2.80 | 1.36 | 2.81 |
| 10.20 | 1.68 | 2.81 | 1.76 | 2.81 | 1.84 | 2.81 | 1.95 | 2.83 |
| 10.60 | 2.89 | 2.84 | 2.90 | 2.84 | 2.91 | 2.84 | 2.93 | 2.87 |
| 10.60 | 15.95 | 2.89 | 21.43 | 2.89 | 29.52 | 2.89 | 37.07 | 2.87 |
| 11.00 | 4.17 | 2.85 | 4.59 | 2.85 | 4.97 | 2.85 | 5.32 | 2.88 |
| 11.00 | 15.38 | 2.87 | 11.45 | 2.87 | 9.10 | 2.87 | 7.61 | 2.87 |
| 11.40 | 4.12 | 2.87 | 3.72 | 2.87 | 3.47 | 2.87 | 3.34 | 2.87 |
| 11.40 | 4.21 | 2.87 | 3.88 | 2.87 | 3.64 | 2.87 | 3.46 | 2.87 |
| 11.80 | 2.97 | 2.87 | 2.95 | 2.87 | 2.94 | 2.87 | 2.93 | 2.87 |
| 12.00 | 2.85 | 2.87 | 2.75 | 2.87 | 2.65 | 2.87 | 2.57 | 2.87 |
| 12.00 | 2.90 | 2.87 | 2.89 | 2.87 | 2.89 | 2.87 | 2.88 | 2.87 |
| 12.40 | 2.24 | 2.87 | 2.19 | 2.87 | 2.13 | 2.87 | 2.07 | 2.87 |
| 12.40 | 2.87 | 2.87 | 2.86 | 2.87 | 2.86 | 2.87 | 2.86 | 2.87 |
| 13.00 | 1.84 | 2.87 | 1.79 | 2.87 | 1.75 | 2.87 | 1.71 | 2.87 |
| 13.00 | 2.85 | 2.87 | 2.84 | 2.87 | 2.84 | 2.87 | 2.84 | 2.87 |
| 13.40 | 1.54 | 2.87 | 1.52 | 2.87 | 1.50 | 2.87 | 1.49 | 2.87 |
| 13.40 | 2.83 | 2.87 | 2.83 | 2.87 | 2.83 | 2.87 | 2.83 | 2.87 |
| 13.80 | 1.42 | 2.87 | 1.40 | 2.87 | 1.39 | 2.87 | 1.37 | 2.87 |
| 13.80 | 2.82 | 2.87 | 2.82 | 2.87 | 2.82 | 2.87 | 2.82 | 2.87 |
| 14.20 | 1.30 | 2.87 | 1.29 | 2.87 | 1.27 | 2.87 | 1.26 | 2.87 |
| 14.20 | 2.82 | 2.87 | 2.82 | 2.87 | 2.82 | 2.87 | 2.82 | 2.87 |
| 14.60 | 1.19 | 2.87 | 1.17 | 2.87 | 1.16 | 2.87 | 1.14 | 2.87 |
| 14.60 | 2.81 | 2.87 | 2.81 | 2.87 | 2.81 | 2.87 | 2.81 | 2.87 |
| 15.00 | 1.07 | 2.87 | 1.06 | 2.87 | 1.04 | 2.87 | 1.03 | 2.87 |
| 15.00 | 2.81 | 2.87 | 2.81 | 2.87 | 2.80 | 2.87 | 2.80 | 2.87 |
| 15.40 | .97 | 2.87 | .96 | 2.87 | .95 | 2.87 | .95 | 2.87 |
| 15.40 | 2.80 | 2.87 | 2.80 | 2.87 | 2.80 | 2.87 | 2.80 | 2.87 |
| 15.80 | .92 | 2.87 | .92 | 2.87 | .91 | 2.87 | .91 | 2.87 |
| 15.80 | 2.80 | 2.87 | 2.80 | 2.87 | 2.80 | 2.87 | 2.80 | 2.87 |
| 16.20 | .88 | 2.87 | .88 | 2.87 | .87 | 2.87 | .87 | 2.87 |
| 16.20 | 2.80 | 2.87 | 2.80 | 2.87 | 2.80 | 2.87 | 2.80 | 2.87 |
| 16.60 | .84 | 2.87 | .83 | 2.87 | .83 | 2.87 | .82 | 2.87 |
| 16.60 | 2.79 | 2.87 | 2.79 | 2.87 | 2.79 | 2.87 | 2.79 | 2.87 |
| 17.00 | .80 | 2.87 | .79 | 2.87 | .79 | 2.87 | .78 | 2.87 |
| 17.00 | .88 | 2.87 | .88 | 2.87 | .87 | 2.87 | .87 | 2.87 |
| 17.40 | .84 | 2.87 | .83 | 2.87 | .83 | 2.87 | .82 | 2.87 |
| 17.40 | 2.79 | 2.87 | 2.79 | 2.87 | 2.79 | 2.87 | 2.79 | 2.87 |
| 17.80 | .80 | 2.87 | .79 | 2.87 | .79 | 2.87 | .78 | 2.87 |
| 17.80 | .97 | 2.87 | .96 | 2.87 | .95 | 2.87 | .95 | 2.87 |
| 17.80 | 2.80 | 2.87 | 2.80 | 2.87 | 2.80 | 2.87 | 2.80 | 2.87 |
| 17.80 | .92 | 2.87 | .92 | 2.87 | .91 | 2.87 | .91 | 2.87 |
| 17.80 | .88 | 2.87 | .88 | 2.87 | .87 | 2.87 | .87 | 2.87 |
| 17.80 | .84 | 2.87 | .83 | 2.87 | .83 | 2.87 | .82 | 2.87 |
| 17.80 | 2.79 | 2.87 | 2.79 | 2.87 | 2.79 | 2.87 | 2.79 | 2.87 |
| 17.80 | .80 | 2.87 | .79 | 2.87 | .79 | 2.87 | .78 | 2.87 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 17.80 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.20 | CFS | .76 | .75 | .75 | .74 | .74 | .73 | .73 | .72 |
| 18.20 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.60 | CFS | .72 | .71 | .70 | .70 | .69 | .69 | .68 | .68 |
| 18.60 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.00 | CFS | .67 | .67 | .66 | .66 | .65 | .65 | .64 | .64 |
| 19.00 | ELEV | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 19.40 | CFS | .63 | .63 | .62 | .62 | .61 | .61 | .60 | .59 |
| 19.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 19.80 | CFS | .59 | .58 | .58 | .57 | .57 | .56 | .56 | .56 |
| 19.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.20 | CFS | .55 | .55 | .55 | .55 | .55 | .55 | .54 | .54 |
| 20.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.60 | CFS | .54 | .54 | .54 | .54 | .54 | .54 | .54 | .54 |
| 20.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.00 | CFS | .53 | .53 | .53 | .53 | .53 | .53 | .53 | .53 |
| 21.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.40 | CFS | .53 | .53 | .52 | .52 | .52 | .52 | .52 | .52 |
| 21.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.80 | CFS | .52 | .52 | .52 | .52 | .51 | .51 | .51 | .51 |
| 21.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.20 | CFS | .51 | .51 | .51 | .51 | .51 | .50 | .50 | .50 |
| 22.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.60 | CFS | .50 | .50 | .50 | | | | | |
| 22.60 | ELEV | 2.78 | 2.78 | 2.78 | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 4.19 WATERSHED INCHES; 32 CFS-HRS; 2.6 ACRE-FEET.

| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
|---------------|---|---|---|---|----|----|----|
| FLOW(CFS) | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 25, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.16 | 21.9 | 4.61 |
| 12.85 | 3.5 | 2.93 |
| 12.95 | 3.3 | 2.92 |
| 13.05 | 3.0 | 2.91 |
| 13.45 | 2.4 | 2.87 |
| 13.55 | 2.2 | 2.87 |
| 13.65 | 2.1 | 2.86 |
| 15.93 | 1.0 | 2.80 |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =25
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.
 5.20 CFS .00 .01 .01 .01 .02 .02 .03 .03
 5.20 ELEV 2.75 2.75 2.75 2.75 2.75 2.75 2.75 2.75

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| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5.60 | CFS | .03 | .04 | .04 | .05 | .05 | .05 | .06 | .06 |
| 5.60 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 6.00 | CFS | .07 | .07 | .08 | .08 | .08 | .09 | .09 | .10 |
| 6.00 | ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.76 |
| 6.40 | CFS | .10 | .11 | .11 | .12 | .12 | .13 | .13 | .14 |
| 6.40 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 6.80 | CFS | .14 | .15 | .15 | .16 | .16 | .17 | .17 | .18 |
| 6.80 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 7.20 | CFS | .18 | .19 | .19 | .20 | .20 | .21 | .21 | .22 |
| 7.20 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 7.60 | CFS | .22 | .23 | .23 | .24 | .24 | .25 | .25 | .26 |
| 7.60 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 8.00 | CFS | .27 | .27 | .28 | .29 | .29 | .30 | .31 | .33 |
| 8.00 | ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.77 | 2.77 | 2.77 | 2.77 |
| 8.40 | CFS | .34 | .35 | .36 | .37 | .39 | .40 | .41 | .43 |
| 8.40 | ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 8.80 | CFS | .44 | .46 | .47 | .48 | .50 | .51 | .53 | .54 |
| 8.80 | ELEV | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 9.20 | CFS | .55 | .56 | .57 | .57 | .58 | .59 | .60 | .60 |
| 9.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 9.60 | CFS | .61 | .63 | .64 | .66 | .68 | .70 | .73 | .75 |
| 9.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 |
| 10.00 | CFS | .78 | .80 | .83 | .86 | .89 | .92 | .96 | 1.00 |
| 10.00 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 |
| 10.40 | CFS | 1.03 | 1.07 | 1.11 | 1.15 | 1.19 | 1.24 | 1.30 | 1.36 |
| 10.40 | ELEV | 2.80 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 |
| 10.80 | CFS | 1.42 | 1.48 | 1.55 | 1.61 | 1.68 | 1.75 | 1.84 | 1.94 |
| 10.80 | ELEV | 2.82 | 2.83 | 2.83 | 2.83 | 2.84 | 2.84 | 2.85 | 2.85 |
| 11.20 | CFS | 2.07 | 2.20 | 2.35 | 2.51 | 2.67 | 2.83 | 3.01 | 3.40 |
| 11.20 | ELEV | 2.86 | 2.86 | 2.87 | 2.88 | 2.89 | 2.90 | 2.91 | 2.93 |
| 11.60 | CFS | 4.30 | 5.14 | 6.37 | 8.35 | 10.52 | 12.87 | 15.09 | 16.99 |
| 11.60 | ELEV | 2.97 | 3.05 | 3.22 | 3.40 | 3.62 | 3.87 | 4.09 | 4.28 |
| 12.00 | CFS | 18.39 | 19.92 | 21.36 | 21.87 | 21.57 | 20.77 | 19.75 | 18.89 |
| 12.00 | ELEV | 4.41 | 4.52 | 4.59 | 4.61 | 4.60 | 4.56 | 4.52 | 4.45 |
| 12.40 | CFS | 18.13 | 17.35 | 16.49 | 15.14 | 13.49 | 10.83 | 8.04 | 5.53 |
| 12.40 | ELEV | 4.38 | 4.31 | 4.23 | 4.09 | 3.93 | 3.65 | 3.37 | 3.10 |
| 12.80 | CFS | 2.96 | 3.52 | 2.76 | 3.26 | 2.58 | 3.01 | 2.41 | 2.80 |
| 12.80 | ELEV | 2.90 | 2.93 | 2.89 | 2.92 | 2.88 | 2.91 | 2.88 | 2.90 |
| 13.20 | CFS | 2.27 | 2.63 | 2.17 | 2.49 | 2.08 | 2.35 | 1.98 | 2.22 |
| 13.20 | ELEV | 2.87 | 2.89 | 2.86 | 2.88 | 2.86 | 2.87 | 2.85 | 2.87 |
| 13.60 | CFS | 1.89 | 2.10 | 1.80 | 1.99 | 1.73 | 1.89 | 1.66 | 1.80 |
| 13.60 | ELEV | 2.85 | 2.86 | 2.84 | 2.85 | 2.84 | 2.85 | 2.84 | 2.84 |
| 14.00 | CFS | 1.59 | 1.71 | 1.52 | 1.64 | 1.48 | 1.58 | 1.45 | 1.54 |
| 14.00 | ELEV | 2.83 | 2.84 | 2.83 | 2.84 | 2.83 | 2.83 | 2.83 | 2.83 |
| 14.40 | CFS | 1.42 | 1.51 | 1.40 | 1.47 | 1.38 | 1.44 | 1.35 | 1.41 |
| 14.40 | ELEV | 2.82 | 2.83 | 2.82 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 |
| 14.80 | CFS | 1.33 | 1.37 | 1.30 | 1.34 | 1.28 | 1.31 | 1.25 | 1.28 |
| 14.80 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 15.20 | CFS | 1.23 | 1.25 | 1.20 | 1.22 | 1.17 | 1.19 | 1.14 | 1.16 |

TR20

SCS -

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 PASS 4 JOB NO. 1 PAGE 18

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 15.20 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 15.60 | CFS | 1.12 | 1.13 | 1.09 | 1.10 | 1.06 | 1.07 | 1.03 | 1.04 |
| 15.60 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 |
| 16.00 | CFS | 1.01 | 1.01 | .98 | .98 | .96 | .97 | .95 | .95 |
| 16.00 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 16.40 | CFS | .94 | .94 | .93 | .93 | .92 | .92 | .91 | .91 |
| 16.40 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 16.80 | CFS | .90 | .90 | .89 | .89 | .88 | .88 | .87 | .87 |
| 16.80 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.20 | CFS | .86 | .86 | .85 | .85 | .84 | .84 | .83 | .83 |
| 17.20 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 17.60 | CFS | .82 | .81 | .81 | .80 | .80 | .79 | .79 | .78 |
| 17.60 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.00 | CFS | .78 | .77 | .77 | .76 | .76 | .75 | .75 | .74 |
| 18.00 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.40 | CFS | .74 | .73 | .73 | .72 | .71 | .71 | .70 | .70 |
| 18.40 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.80 | CFS | .69 | .69 | .68 | .68 | .67 | .67 | .66 | .66 |
| 18.80 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 |
| 19.20 | CFS | .65 | .65 | .64 | .64 | .63 | .63 | .62 | .62 |
| 19.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 19.60 | CFS | .61 | .61 | .60 | .60 | .59 | .58 | .58 | .57 |
| 19.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.00 | CFS | .57 | .56 | .56 | .56 | .55 | .55 | .55 | .55 |
| 20.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.40 | CFS | .55 | .55 | .54 | .54 | .54 | .54 | .54 | .54 |
| 20.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.80 | CFS | .54 | .54 | .54 | .54 | .53 | .53 | .53 | .53 |
| 20.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.20 | CFS | .53 | .53 | .53 | .53 | .53 | .53 | .52 | .52 |
| 21.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.60 | CFS | .52 | .52 | .52 | .52 | .52 | .52 | .52 | .52 |
| 21.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.00 | CFS | .51 | .51 | .51 | .51 | .51 | .51 | .51 | .51 |
| 22.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.40 | CFS | .51 | .50 | .50 | .50 | .50 | .50 | .50 | .50 |
| 22.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.80 | CFS | .50 | .50 | .50 | .49 | .49 | .49 | .49 | .49 |
| 22.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.20 | CFS | .49 | .49 | .49 | .49 | .49 | .48 | .48 | .48 |
| 23.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.60 | CFS | .48 | .48 | .48 | .48 | .48 | .48 | .47 | .47 |
| 23.60 | ELEV | 2.78 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 24.00 | CFS | .47 | .44 | .35 | .22 | .12 | .06 | .04 | .02 |
| 24.00 | ELEV | 2.77 | 2.77 | 2.77 | 2.76 | 2.76 | 2.75 | 2.75 | 2.75 |
| 24.40 | CFS | .01 | .01 | .00 | | | | | |
| 24.40 | ELEV | 2.75 | 2.75 | 2.75 | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 4.18 WATERSHED INCHES; 32 CFS-HRS; 2.6 ACRE-FEET.

| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
|---------------|---|---|---|---|----|----|----|
| FLOW(CFS) | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 25, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.00 PEAK DISCHARGE(CFS) 40.3 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =25
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 9.00 CFS | .50 | .51 | .53 | .54 | .55 | .56 | .57 | .57 |
| 9.00 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 9.40 CFS | .58 | .59 | .60 | .60 | .61 | .63 | .64 | .66 |
| 9.40 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 9.80 CFS | .68 | .71 | .73 | .75 | .78 | .80 | .83 | .86 |
| 9.80 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 10.20 CFS | .89 | .92 | .96 | 1.00 | 1.03 | 1.07 | 1.11 | 1.15 |
| 10.20 ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.81 | 2.81 | 2.81 |
| 10.60 CFS | 1.20 | 1.24 | 1.30 | 1.36 | 1.42 | 1.48 | 1.55 | 1.61 |
| 10.60 ELEV | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 | 2.83 | 2.83 | 2.83 |
| 11.00 CFS | 1.68 | 1.76 | 1.84 | 1.95 | 2.07 | 2.21 | 2.35 | 2.51 |
| 11.00 ELEV | 2.84 | 2.84 | 2.85 | 2.85 | 2.86 | 2.86 | 2.87 | 2.88 |
| 11.40 CFS | 2.67 | 2.83 | 3.02 | 3.41 | 4.32 | 5.92 | 8.41 | 11.70 |
| 11.40 ELEV | 2.89 | 2.90 | 2.91 | 2.93 | 2.98 | 3.16 | 3.41 | 3.75 |
| 11.80 CFS | 15.95 | 21.43 | 29.52 | 37.07 | 40.31 | 38.13 | 31.02 | 22.27 |
| 11.80 ELEV | 4.17 | 4.59 | 4.97 | 5.32 | 5.47 | 5.37 | 5.04 | 4.63 |
| 12.20 CFS | 15.38 | 11.45 | 9.10 | 7.61 | 6.58 | 5.82 | 5.18 | 4.65 |
| 12.20 ELEV | 4.12 | 3.72 | 3.47 | 3.34 | 3.25 | 3.14 | 3.05 | 2.99 |
| 12.60 CFS | 4.21 | 3.88 | 3.64 | 3.46 | 3.31 | 3.19 | 3.07 | 2.96 |
| 12.60 ELEV | 2.97 | 2.95 | 2.94 | 2.93 | 2.92 | 2.92 | 2.91 | 2.90 |
| 13.00 CFS | 2.85 | 2.75 | 2.65 | 2.57 | 2.49 | 2.43 | 2.36 | 2.30 |
| 13.00 ELEV | 2.90 | 2.89 | 2.89 | 2.88 | 2.88 | 2.88 | 2.87 | 2.87 |
| 13.40 CFS | 2.24 | 2.19 | 2.13 | 2.07 | 2.02 | 1.97 | 1.92 | 1.88 |
| 13.40 ELEV | 2.87 | 2.86 | 2.86 | 2.86 | 2.86 | 2.85 | 2.85 | 2.85 |
| 13.80 CFS | 1.84 | 1.79 | 1.75 | 1.71 | 1.67 | 1.63 | 1.60 | 1.57 |
| 13.80 ELEV | 2.85 | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 | 2.83 | 2.83 |
| 14.20 CFS | 1.54 | 1.52 | 1.50 | 1.49 | 1.47 | 1.46 | 1.44 | 1.43 |
| 14.20 ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 |
| 14.60 CFS | 1.42 | 1.40 | 1.39 | 1.37 | 1.36 | 1.34 | 1.33 | 1.32 |
| 14.60 ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 15.00 CFS | 1.30 | 1.29 | 1.27 | 1.26 | 1.24 | 1.23 | 1.22 | 1.20 |
| 15.00 ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 | 2.81 | 2.81 | 2.81 |
| 15.40 CFS | 1.19 | 1.17 | 1.16 | 1.14 | 1.13 | 1.11 | 1.10 | 1.09 |
| 15.40 ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 15.80 | CFS | 1.07 | 1.06 | 1.04 | 1.03 | 1.01 | 1.00 | .99 | .98 |
| 15.80 | ELEV | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 16.20 | CFS | .97 | .96 | .95 | .95 | .94 | .94 | .93 | .93 |
| 16.20 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 16.60 | CFS | .92 | .92 | .91 | .91 | .90 | .90 | .89 | .89 |
| 16.60 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.00 | CFS | .88 | .88 | .87 | .87 | .86 | .85 | .85 | .84 |
| 17.00 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 |
| 17.40 | CFS | .84 | .83 | .83 | .82 | .82 | .81 | .81 | .80 |
| 17.40 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 17.80 | CFS | .80 | .79 | .79 | .78 | .78 | .77 | .77 | .76 |
| 17.80 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.20 | CFS | .76 | .75 | .75 | .74 | .74 | .73 | .73 | .72 |
| 18.20 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.60 | CFS | .72 | .71 | .70 | .70 | .69 | .69 | .68 | .68 |
| 18.60 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.00 | CFS | .67 | .67 | .66 | .66 | .65 | .65 | .64 | .64 |
| 19.00 | ELEV | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 19.40 | CFS | .63 | .63 | .62 | .62 | .61 | .61 | .60 | .59 |
| 19.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 19.80 | CFS | .59 | .58 | .58 | .57 | .57 | .56 | .56 | .56 |
| 19.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.20 | CFS | .55 | .55 | .55 | .55 | .55 | .55 | .54 | .54 |
| 20.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.60 | CFS | .54 | .54 | .54 | .54 | .54 | .54 | .54 | .54 |
| 20.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.00 | CFS | .53 | .53 | .53 | .53 | .53 | .53 | .53 | .53 |
| 21.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.40 | CFS | .53 | .53 | .52 | .52 | .52 | .52 | .52 | .52 |
| 21.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.80 | CFS | .52 | .52 | .52 | .52 | .51 | .51 | .51 | .51 |
| 21.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.20 | CFS | .51 | .51 | .51 | .51 | .51 | .50 | .50 | .50 |
| 22.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.60 | CFS | .50 | .50 | .50 | | | | | |
| 22.60 | ELEV | 2.78 | 2.78 | 2.78 | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 4.19 WATERSHED INCHES; 32 CFS-HRS; 2.6 ACRE-FEET.

| | | | | | | | |
|---------------|---|---|---|---|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 |
| FLOW(CFS) | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 25, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 4

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS VERSION
 09/16/** FILENAME: JPPCUL1P.dat 9/16/05 BY: TLH 2.04TEST
 11:42:54 PASS 5 JOB NO. 1 PAGE 21

EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 50-YR
 STARTING TIME = .00 RAIN DEPTH = 7.05 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =50 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) PEAK DISCHARGE(CFS) PEAK ELEVATION(FEET)
 12.00 49.5 (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =50
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| HRS | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV | CFS | ELEV |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8.40 | .50 | 2.78 | .51 | 2.78 | .53 | 2.78 | .55 | 2.78 | .56 | 2.78 |
| 8.40 | .50 | 2.78 | .51 | 2.78 | .53 | 2.78 | .55 | 2.78 | .56 | 2.78 |
| 8.80 | .63 | 2.78 | .65 | 2.78 | .67 | 2.79 | .69 | 2.79 | .71 | 2.79 |
| 8.80 | .63 | 2.78 | .65 | 2.78 | .67 | 2.79 | .69 | 2.79 | .71 | 2.79 |
| 9.20 | .77 | 2.79 | .78 | 2.79 | .79 | 2.79 | .80 | 2.79 | .81 | 2.79 |
| 9.20 | .77 | 2.79 | .78 | 2.79 | .79 | 2.79 | .80 | 2.79 | .81 | 2.79 |
| 9.60 | .85 | 2.79 | .86 | 2.80 | .88 | 2.80 | .91 | 2.80 | .94 | 2.80 |
| 9.60 | .85 | 2.79 | .86 | 2.80 | .88 | 2.80 | .91 | 2.80 | .94 | 2.80 |
| 10.00 | 1.06 | 2.81 | 1.09 | 2.81 | 1.13 | 2.81 | 1.16 | 2.81 | 1.20 | 2.81 |
| 10.00 | 1.06 | 2.81 | 1.09 | 2.81 | 1.13 | 2.81 | 1.16 | 2.81 | 1.20 | 2.81 |
| 10.40 | 1.39 | 2.82 | 1.43 | 2.82 | 1.48 | 2.82 | 1.54 | 2.82 | 1.59 | 2.82 |
| 10.40 | 1.39 | 2.82 | 1.43 | 2.82 | 1.48 | 2.82 | 1.54 | 2.82 | 1.59 | 2.82 |
| 10.80 | 1.87 | 2.85 | 1.95 | 2.85 | 2.04 | 2.85 | 2.12 | 2.85 | 2.21 | 2.85 |
| 10.80 | 1.87 | 2.85 | 1.95 | 2.85 | 2.04 | 2.85 | 2.12 | 2.85 | 2.21 | 2.85 |
| 11.20 | 2.69 | 2.89 | 2.87 | 2.89 | 3.06 | 2.89 | 3.25 | 2.89 | 3.45 | 2.89 |
| 11.20 | 2.69 | 2.89 | 2.87 | 2.89 | 3.06 | 2.89 | 3.25 | 2.89 | 3.45 | 2.89 |
| 11.60 | 5.52 | 7.54 | 7.54 | 10.70 | 14.84 | 20.12 | 26.89 | 36.67 | 45.84 | 45.84 |
| 11.60 | 5.52 | 7.54 | 7.54 | 10.70 | 14.84 | 20.12 | 26.89 | 36.67 | 45.84 | 45.84 |
| 12.00 | 49.47 | 46.61 | 46.61 | 37.78 | 27.11 | 18.74 | 13.87 | 10.98 | 9.20 | 9.20 |
| 12.00 | 49.47 | 46.61 | 46.61 | 37.78 | 27.11 | 18.74 | 13.87 | 10.98 | 9.20 | 9.20 |
| 12.40 | 7.96 | 5.89 | 7.03 | 6.25 | 5.61 | 5.08 | 4.68 | 4.38 | 4.17 | 4.17 |
| 12.40 | 7.96 | 5.89 | 7.03 | 6.25 | 5.61 | 5.08 | 4.68 | 4.38 | 4.17 | 4.17 |
| 12.80 | 3.37 | 3.37 | 3.29 | 3.20 | 3.11 | 3.04 | 2.99 | 2.98 | 2.97 | 2.97 |
| 12.80 | 3.37 | 3.37 | 3.29 | 3.20 | 3.11 | 3.04 | 2.99 | 2.98 | 2.97 | 2.97 |
| 13.20 | 3.99 | 3.99 | 3.84 | 3.70 | 3.57 | 3.44 | 3.31 | 3.20 | 3.09 | 3.09 |
| 13.20 | 3.99 | 3.99 | 3.84 | 3.70 | 3.57 | 3.44 | 3.31 | 3.20 | 3.09 | 3.09 |
| 13.60 | 2.96 | 2.96 | 2.95 | 2.94 | 2.94 | 2.93 | 2.92 | 2.92 | 2.91 | 2.91 |
| 13.60 | 2.96 | 2.96 | 2.95 | 2.94 | 2.94 | 2.93 | 2.92 | 2.92 | 2.91 | 2.91 |
| 14.00 | 3.00 | 3.00 | 2.92 | 2.84 | 2.77 | 2.70 | 2.63 | 2.56 | 2.50 | 2.50 |
| 14.00 | 3.00 | 3.00 | 2.92 | 2.84 | 2.77 | 2.70 | 2.63 | 2.56 | 2.50 | 2.50 |
| 14.40 | 2.91 | 2.91 | 2.90 | 2.90 | 2.89 | 2.89 | 2.89 | 2.88 | 2.88 | 2.88 |
| 14.40 | 2.91 | 2.91 | 2.90 | 2.90 | 2.89 | 2.89 | 2.89 | 2.88 | 2.88 | 2.88 |
| 14.80 | 2.43 | 2.43 | 2.37 | 2.31 | 2.26 | 2.21 | 2.16 | 2.11 | 2.06 | 2.06 |
| 14.80 | 2.43 | 2.43 | 2.37 | 2.31 | 2.26 | 2.21 | 2.16 | 2.11 | 2.06 | 2.06 |
| 15.20 | 2.88 | 2.88 | 2.87 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 |
| 15.20 | 2.88 | 2.88 | 2.87 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 |
| 15.60 | 2.01 | 2.01 | 1.96 | 1.92 | 1.88 | 1.85 | 1.83 | 1.81 | 1.79 | 1.79 |
| 15.60 | 2.01 | 2.01 | 1.96 | 1.92 | 1.88 | 1.85 | 1.83 | 1.81 | 1.79 | 1.79 |
| 16.00 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.84 | 2.84 | 2.84 |
| 16.00 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.84 | 2.84 | 2.84 |
| 16.40 | 1.77 | 1.77 | 1.75 | 1.73 | 1.72 | 1.70 | 1.68 | 1.67 | 1.65 | 1.65 |
| 16.40 | 1.77 | 1.77 | 1.75 | 1.73 | 1.72 | 1.70 | 1.68 | 1.67 | 1.65 | 1.65 |
| 16.80 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 |
| 16.80 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 |
| 17.20 | 1.63 | 1.63 | 1.61 | 1.60 | 1.58 | 1.56 | 1.55 | 1.53 | 1.51 | 1.51 |
| 17.20 | 1.63 | 1.63 | 1.61 | 1.60 | 1.58 | 1.56 | 1.55 | 1.53 | 1.51 | 1.51 |
| 17.60 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 17.60 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 18.00 | 1.49 | 1.49 | 1.48 | 1.46 | 1.44 | 1.42 | 1.41 | 1.39 | 1.37 | 1.37 |
| 18.00 | 1.49 | 1.49 | 1.48 | 1.46 | 1.44 | 1.42 | 1.41 | 1.39 | 1.37 | 1.37 |
| 18.40 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 18.40 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 15.60 | CFS | 1.35 | 1.34 | 1.32 | 1.30 | 1.29 | 1.27 | 1.25 | 1.23 |
| 15.60 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 |
| 16.00 | CFS | 1.22 | 1.20 | 1.18 | 1.17 | 1.16 | 1.15 | 1.14 | 1.14 |
| 16.00 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.40 | CFS | 1.13 | 1.12 | 1.12 | 1.11 | 1.11 | 1.10 | 1.09 | 1.09 |
| 16.40 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.80 | CFS | 1.08 | 1.07 | 1.07 | 1.06 | 1.06 | 1.05 | 1.04 | 1.04 |
| 16.80 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.20 | CFS | 1.03 | 1.02 | 1.02 | 1.01 | 1.01 | 1.00 | .99 | .99 |
| 17.20 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.60 | CFS | .98 | .97 | .97 | .96 | .96 | .95 | .94 | .94 |
| 17.60 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.00 | CFS | .93 | .93 | .92 | .91 | .91 | .90 | .89 | .89 |
| 18.00 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.40 | CFS | .88 | .88 | .87 | .86 | .86 | .85 | .84 | .84 |
| 18.40 | ELEV | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.80 | CFS | .83 | .82 | .82 | .81 | .81 | .80 | .79 | .79 |
| 18.80 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.20 | CFS | .78 | .77 | .77 | .76 | .76 | .75 | .74 | .74 |
| 19.20 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.60 | CFS | .73 | .72 | .72 | .71 | .71 | .70 | .69 | .69 |
| 19.60 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.00 | CFS | .68 | .67 | .67 | .67 | .66 | .66 | .66 | .66 |
| 20.00 | ELEV | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.40 | CFS | .65 | .65 | .65 | .65 | .65 | .65 | .65 | .65 |
| 20.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.80 | CFS | .64 | .64 | .64 | .64 | .64 | .64 | .64 | .64 |
| 20.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.20 | CFS | .63 | .63 | .63 | .63 | .63 | .63 | .63 | .63 |
| 21.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.60 | CFS | .63 | .62 | .62 | .62 | .62 | .62 | .62 | .62 |
| 21.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.00 | CFS | .62 | .61 | .61 | .61 | .61 | .61 | .61 | .61 |
| 22.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.40 | CFS | .61 | .60 | .60 | .60 | .60 | .60 | .60 | .60 |
| 22.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.80 | CFS | .60 | .59 | .59 | .59 | .59 | .59 | .59 | .59 |
| 22.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.20 | CFS | .59 | .58 | .58 | .58 | .58 | .58 | .58 | .58 |
| 23.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.60 | CFS | .58 | .57 | .57 | .57 | .57 | .57 | .57 | .57 |
| 23.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 24.00 | CFS | .56 | .53 | .41 | | | | | |
| 24.00 | ELEV | 2.78 | 2.78 | 2.77 | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 5.19 WATERSHED INCHES; 40 CFS-HRS; 3.3 ACRE-FEET.

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS VERSION
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| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|---------------|---|---|---|---|----|----|----|----|
| FLOW(CFS) | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 50, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.16 | 25.9 | 4.80 |
| 13.00 | 4.2 | 2.97 |
| 13.10 | 3.8 | 2.95 |
| 13.20 | 3.6 | 2.94 |
| 13.30 | 3.4 | 2.92 |
| 13.40 | 3.2 | 2.91 |
| 13.70 | 2.6 | 2.89 |
| 13.80 | 2.5 | 2.88 |
| 13.90 | 2.4 | 2.87 |
| 14.00 | 2.2 | 2.87 |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =50
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------|
| 4.55 CFS | .00 | .01 | .01 | .01 | .02 | .02 | .03 | .03 |
| 4.55 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 4.95 CFS | .04 | .04 | .05 | .05 | .06 | .06 | .07 | .07 |
| 4.95 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 5.35 CFS | .08 | .08 | .09 | .09 | .10 | .10 | .11 | .11 |
| 5.35 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.76 | 2.76 | 2.76 | 2.76 |
| 5.75 CFS | .12 | .12 | .13 | .14 | .14 | .15 | .15 | .16 |
| 5.75 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 6.15 CFS | .16 | .17 | .18 | .18 | .19 | .19 | .20 | .21 |
| 6.15 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 6.55 CFS | .21 | .22 | .22 | .23 | .24 | .24 | .25 | .25 |
| 6.55 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 6.95 CFS | .26 | .27 | .27 | .28 | .29 | .29 | .30 | .31 |
| 6.95 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.77 | 2.77 | 2.77 |
| 7.35 CFS | .31 | .32 | .33 | .33 | .34 | .35 | .35 | .36 |
| 7.35 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 7.75 CFS | .37 | .37 | .38 | .39 | .39 | .40 | .41 | .42 |
| 7.75 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 8.15 CFS | .43 | .44 | .45 | .47 | .48 | .50 | .51 | .53 |
| 8.15 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 | 2.78 | 2.78 |
| 8.55 CFS | .55 | .56 | .58 | .60 | .61 | .63 | .65 | .67 |
| 8.55 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 8.95 CFS | .69 | .71 | .73 | .75 | .76 | .77 | .78 | .79 |
| 8.95 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 9.35 CFS | .80 | .81 | .82 | .83 | .84 | .85 | .86 | .88 |
| 9.35 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.80 |
| 9.75 CFS | .91 | .94 | .96 | .99 | 1.03 | 1.06 | 1.09 | 1.12 |
| 9.75 ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.81 | 2.81 | 2.81 |

09/16/** JONES POINT PARK EXISTING CONDITIONS VERSION
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| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.15 | CFS | 1.16 | 1.20 | 1.25 | 1.29 | 1.34 | 1.38 | 1.43 | 1.48 |
| 10.15 | ELEV | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 | 2.82 | 2.83 |
| 10.55 | CFS | 1.53 | 1.59 | 1.65 | 1.72 | 1.79 | 1.87 | 1.95 | 2.04 |
| 10.55 | ELEV | 2.83 | 2.83 | 2.84 | 2.84 | 2.84 | 2.85 | 2.85 | 2.86 |
| 10.95 | CFS | 2.12 | 2.21 | 2.30 | 2.41 | 2.54 | 2.69 | 2.86 | 3.05 |
| 10.95 | ELEV | 2.86 | 2.86 | 2.87 | 2.88 | 2.88 | 2.89 | 2.90 | 2.91 |
| 11.35 | CFS | 3.25 | 3.45 | 3.65 | 3.87 | 4.32 | 5.02 | 5.93 | 7.70 |
| 11.35 | ELEV | 2.92 | 2.93 | 2.94 | 2.95 | 2.98 | 3.03 | 3.16 | 3.35 |
| 11.75 | CFS | 10.01 | 12.24 | 14.66 | 16.66 | 18.27 | 20.57 | 23.27 | 25.12 |
| 11.75 | ELEV | 3.56 | 3.80 | 4.05 | 4.25 | 4.40 | 4.55 | 4.68 | 4.76 |
| 12.15 | CFS | 25.84 | 25.55 | 24.65 | 23.45 | 22.14 | 20.81 | 19.51 | 18.64 |
| 12.15 | ELEV | 4.80 | 4.78 | 4.74 | 4.69 | 4.63 | 4.57 | 4.50 | 4.43 |
| 12.55 | CFS | 17.81 | 17.01 | 15.84 | 14.52 | 12.17 | 9.74 | 6.84 | 5.01 |
| 12.55 | ELEV | 4.35 | 4.28 | 4.16 | 4.03 | 3.80 | 3.53 | 3.27 | 3.03 |
| 12.95 | CFS | 2.80 | 4.17 | 2.63 | 3.84 | 2.49 | 3.57 | 2.38 | 3.35 |
| 12.95 | ELEV | 2.90 | 2.97 | 2.89 | 2.95 | 2.88 | 2.94 | 2.87 | 2.92 |
| 13.35 | CFS | 2.30 | 3.15 | 2.21 | 2.96 | 2.12 | 2.78 | 2.04 | 2.63 |
| 13.35 | ELEV | 2.87 | 2.91 | 2.87 | 2.90 | 2.86 | 2.89 | 2.86 | 2.89 |
| 13.75 | CFS | 1.97 | 2.49 | 1.90 | 2.35 | 1.83 | 2.23 | 1.76 | 2.11 |
| 13.75 | ELEV | 2.85 | 2.88 | 2.85 | 2.87 | 2.85 | 2.87 | 2.84 | 2.86 |
| 14.15 | CFS | 1.70 | 2.02 | 1.67 | 1.96 | 1.65 | 1.90 | 1.63 | 1.85 |
| 14.15 | ELEV | 2.84 | 2.86 | 2.84 | 2.85 | 2.84 | 2.85 | 2.83 | 2.85 |
| 14.55 | CFS | 1.61 | 1.81 | 1.58 | 1.76 | 1.56 | 1.71 | 1.54 | 1.67 |
| 14.55 | ELEV | 2.83 | 2.84 | 2.83 | 2.84 | 2.83 | 2.84 | 2.83 | 2.84 |
| 14.95 | CFS | 1.51 | 1.63 | 1.48 | 1.59 | 1.46 | 1.54 | 1.43 | 1.50 |
| 14.95 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.83 |
| 15.35 | CFS | 1.40 | 1.46 | 1.37 | 1.42 | 1.34 | 1.39 | 1.31 | 1.35 |
| 15.35 | ELEV | 2.82 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 15.75 | CFS | 1.28 | 1.31 | 1.24 | 1.27 | 1.21 | 1.24 | 1.18 | 1.20 |
| 15.75 | ELEV | 2.82 | 2.82 | 2.81 | 2.82 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.15 | CFS | 1.15 | 1.18 | 1.14 | 1.16 | 1.12 | 1.14 | 1.11 | 1.13 |
| 16.15 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.55 | CFS | 1.10 | 1.11 | 1.09 | 1.10 | 1.08 | 1.09 | 1.07 | 1.07 |
| 16.55 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.95 | CFS | 1.06 | 1.06 | 1.04 | 1.05 | 1.03 | 1.04 | 1.02 | 1.02 |
| 16.95 | ELEV | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.35 | CFS | 1.01 | 1.01 | 1.00 | 1.00 | .98 | .98 | .97 | .97 |
| 17.35 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.75 | CFS | .96 | .96 | .95 | .95 | .94 | .93 | .92 | .92 |
| 17.75 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.15 | CFS | .91 | .91 | .90 | .90 | .89 | .88 | .87 | .87 |
| 18.15 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.55 | CFS | .86 | .86 | .85 | .84 | .84 | .83 | .82 | .82 |
| 18.55 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.95 | CFS | .81 | .81 | .80 | .79 | .79 | .78 | .77 | .77 |
| 18.95 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.35 | CFS | .76 | .76 | .75 | .74 | .74 | .73 | .72 | .72 |
| 19.35 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.75 | CFS | .71 | .71 | .70 | .69 | .69 | .68 | .67 | .67 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 19.75 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.78 |
| 20.15 | CFS | .67 | .66 | .66 | .66 | .66 | .65 | .65 | .65 |
| 20.15 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.55 | CFS | .65 | .65 | .65 | .65 | .65 | .64 | .64 | .64 |
| 20.55 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.95 | CFS | .64 | .64 | .64 | .64 | .64 | .64 | .63 | .63 |
| 20.95 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.35 | CFS | .63 | .63 | .63 | .63 | .63 | .63 | .62 | .62 |
| 21.35 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.75 | CFS | .62 | .62 | .62 | .62 | .62 | .62 | .61 | .61 |
| 21.75 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.15 | CFS | .61 | .61 | .61 | .61 | .61 | .61 | .60 | .60 |
| 22.15 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.55 | CFS | .60 | .60 | .60 | .60 | .60 | .60 | .59 | .59 |
| 22.55 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.95 | CFS | .59 | .59 | .59 | .59 | .59 | .59 | .58 | .58 |
| 22.95 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.35 | CFS | .58 | .58 | .58 | .58 | .58 | .58 | .57 | .57 |
| 23.35 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.75 | CFS | .57 | .57 | .57 | .57 | .57 | .56 | .53 | .42 |
| 23.75 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.77 |
| 24.15 | CFS | .26 | .14 | .08 | | | | | |
| 24.15 | ELEV | 2.76 | 2.76 | 2.75 | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 5.16 WATERSHED INCHES; 39 CFS-HRS; 3.2 ACRE-FEET.

| | | | | | | | | |
|---------------|---|---|---|---|----|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| FLOW(CFS) | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 50, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.00 PEAK DISCHARGE(CFS) 49.5 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM = 50
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 8.40 | CFS | .50 | .51 | .53 | .55 | .56 | .58 | .60 | .61 |
| 8.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 8.80 | CFS | .63 | .65 | .67 | .69 | .71 | .73 | .75 | .76 |
| 8.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 9.20 | CFS | .77 | .78 | .79 | .80 | .81 | .82 | .83 | .84 |
| 9.20 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 9.60 | CFS | .85 | .86 | .88 | .91 | .94 | .97 | 1.00 | 1.03 |
| 9.60 | ELEV | 2.79 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 10.00 | CFS | 1.06 | 1.09 | 1.13 | 1.16 | 1.20 | 1.25 | 1.29 | 1.34 |
| 10.00 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 |
| 10.40 | CFS | 1.39 | 1.43 | 1.48 | 1.54 | 1.59 | 1.65 | 1.72 | 1.79 |

TR20

SCS -

JONES POINT PARK EXISTING CONDITIONS
 09/16/** FILENAME: JPPCUL1P.dat 9/16/05 BY: TLH VERSION 2.04TEST
 11:42:54 PASS 5 JOB NO. 1 PAGE 26

| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.40 | ELEV | 2.82 | 2.82 | 2.83 | 2.83 | 2.83 | 2.84 | 2.84 | 2.84 |
| 10.80 | CFS | 1.87 | 1.95 | 2.04 | 2.12 | 2.21 | 2.30 | 2.41 | 2.54 |
| 10.80 | ELEV | 2.85 | 2.85 | 2.86 | 2.86 | 2.87 | 2.87 | 2.88 | 2.88 |
| 11.20 | CFS | 2.69 | 2.87 | 3.06 | 3.25 | 3.45 | 3.66 | 3.87 | 4.33 |
| 11.20 | ELEV | 2.89 | 2.90 | 2.91 | 2.92 | 2.93 | 2.94 | 2.95 | 2.98 |
| 11.60 | CFS | 5.52 | 7.54 | 10.70 | 14.84 | 20.12 | 26.89 | 36.67 | 45.84 |
| 11.60 | ELEV | 3.10 | 3.33 | 3.64 | 4.06 | 4.53 | 4.85 | 5.30 | 5.72 |
| 12.00 | CFS | 49.47 | 46.61 | 37.78 | 27.11 | 18.74 | 13.87 | 10.98 | 9.20 |
| 12.00 | ELEV | 5.89 | 5.76 | 5.35 | 4.86 | 4.44 | 3.97 | 3.67 | 3.47 |
| 12.40 | CFS | 7.96 | 7.03 | 6.25 | 5.61 | 5.08 | 4.68 | 4.38 | 4.17 |
| 12.40 | ELEV | 3.37 | 3.29 | 3.20 | 3.11 | 3.04 | 2.99 | 2.98 | 2.97 |
| 12.80 | CFS | 3.99 | 3.84 | 3.70 | 3.57 | 3.44 | 3.31 | 3.20 | 3.09 |
| 12.80 | ELEV | 2.96 | 2.95 | 2.94 | 2.94 | 2.93 | 2.92 | 2.92 | 2.91 |
| 13.20 | CFS | 3.00 | 2.92 | 2.84 | 2.77 | 2.70 | 2.63 | 2.56 | 2.50 |
| 13.20 | ELEV | 2.91 | 2.90 | 2.90 | 2.89 | 2.89 | 2.89 | 2.88 | 2.88 |
| 13.60 | CFS | 2.43 | 2.37 | 2.31 | 2.26 | 2.21 | 2.16 | 2.11 | 2.06 |
| 13.60 | ELEV | 2.88 | 2.87 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 | 2.86 |
| 14.00 | CFS | 2.01 | 1.96 | 1.92 | 1.88 | 1.85 | 1.83 | 1.81 | 1.79 |
| 14.00 | ELEV | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.84 | 2.84 |
| 14.40 | CFS | 1.77 | 1.75 | 1.73 | 1.72 | 1.70 | 1.68 | 1.67 | 1.65 |
| 14.40 | ELEV | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 |
| 14.80 | CFS | 1.63 | 1.61 | 1.60 | 1.58 | 1.56 | 1.55 | 1.53 | 1.51 |
| 14.80 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 15.20 | CFS | 1.49 | 1.48 | 1.46 | 1.44 | 1.42 | 1.41 | 1.39 | 1.37 |
| 15.20 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 |
| 15.60 | CFS | 1.35 | 1.34 | 1.32 | 1.30 | 1.29 | 1.27 | 1.25 | 1.23 |
| 15.60 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 |
| 16.00 | CFS | 1.22 | 1.20 | 1.18 | 1.17 | 1.16 | 1.15 | 1.14 | 1.14 |
| 16.00 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.40 | CFS | 1.13 | 1.12 | 1.12 | 1.11 | 1.11 | 1.10 | 1.09 | 1.09 |
| 16.40 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 16.80 | CFS | 1.08 | 1.07 | 1.07 | 1.06 | 1.06 | 1.05 | 1.04 | 1.04 |
| 16.80 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.20 | CFS | 1.03 | 1.02 | 1.02 | 1.01 | 1.01 | 1.00 | .99 | .99 |
| 17.20 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 17.60 | CFS | .98 | .97 | .97 | .96 | .96 | .95 | .94 | .94 |
| 17.60 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.00 | CFS | .93 | .93 | .92 | .91 | .91 | .90 | .89 | .89 |
| 18.00 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.40 | CFS | .88 | .88 | .87 | .86 | .86 | .85 | .84 | .84 |
| 18.40 | ELEV | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 18.80 | CFS | .83 | .82 | .82 | .81 | .81 | .80 | .79 | .79 |
| 18.80 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.20 | CFS | .78 | .77 | .77 | .76 | .76 | .75 | .74 | .74 |
| 19.20 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.60 | CFS | .73 | .72 | .72 | .71 | .71 | .70 | .69 | .69 |
| 19.60 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.00 | CFS | .68 | .67 | .67 | .67 | .66 | .66 | .66 | .66 |
| 20.00 | ELEV | 2.79 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 20.40 | CFS | .65 | .65 | .65 | .65 | .65 | .65 | .65 | .65 |
| 20.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 20.80 | CFS | .64 | .64 | .64 | .64 | .64 | .64 | .64 | .64 |
| 20.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.20 | CFS | .63 | .63 | .63 | .63 | .63 | .63 | .63 | .63 |
| 21.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 21.60 | CFS | .63 | .62 | .62 | .62 | .62 | .62 | .62 | .62 |
| 21.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.00 | CFS | .62 | .61 | .61 | .61 | .61 | .61 | .61 | .61 |
| 22.00 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.40 | CFS | .61 | .60 | .60 | .60 | .60 | .60 | .60 | .60 |
| 22.40 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 22.80 | CFS | .60 | .59 | .59 | .59 | .59 | .59 | .59 | .59 |
| 22.80 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.20 | CFS | .59 | .58 | .58 | .58 | .58 | .58 | .58 | .58 |
| 23.20 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 23.60 | CFS | .58 | .57 | .57 | .57 | .57 | .57 | .57 | .57 |
| 23.60 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 24.00 | CFS | .56 | .53 | .41 | | | | | |
| 24.00 | ELEV | 2.78 | 2.78 | 2.77 | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 5.19 WATERSHED INCHES; 40 CFS-HRS; 3.3 ACRE-FEET.

| | | | | | | | | |
|---------------|---|---|---|---|----|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| FLOW(CFS) | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 0 |

--- STRUCTURE 1, ALTERNATE 1, STORM 50, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 5

EXECUTIVE CONTROL COMPUT FROM STRUCTURE 1 TO STRUCTURE 1 100-YR
 STARTING TIME = .00 RAIN DEPTH = 8.26 RAIN DURATION = 1.00
 ANT. RUNOFF COND. = 2 MAIN TIME INCREMENT = .050 HOURS
 ALTERNATE NO. = 1 STORM NO. =99 RAIN TABLE NO. = 2

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.00 PEAK DISCHARGE(CFS) 59.9 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =99

| HRS | MAIN TIME INCREMENT = .050 hr, | DRAINAGE AREA = .01 SQ.MI. | | | | | | | |
|------|--------------------------------|----------------------------|------|------|------|------|------|------|------|
| 7.55 | CFS | .49 | .50 | .51 | .52 | .53 | .53 | .54 | .55 |
| 7.55 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 7.95 | CFS | .56 | .57 | .58 | .59 | .60 | .62 | .63 | .65 |

TR20

SCS -

JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 7.95 | ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 8.35 | CFS | .67 | .69 | .71 | .73 | .76 | .78 | .80 | .82 |
| 8.35 | ELEV | 2.78 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 8.75 | CFS | .85 | .87 | .89 | .92 | .94 | .96 | .99 | 1.01 |
| 8.75 | ELEV | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 9.15 | CFS | 1.03 | 1.04 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.10 |
| 9.15 | ELEV | 2.80 | 2.80 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 9.55 | CFS | 1.12 | 1.13 | 1.15 | 1.18 | 1.21 | 1.24 | 1.28 | 1.32 |
| 9.55 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 |
| 9.95 | CFS | 1.35 | 1.39 | 1.43 | 1.48 | 1.52 | 1.58 | 1.63 | 1.69 |
| 9.95 | ELEV | 2.82 | 2.82 | 2.82 | 2.83 | 2.83 | 2.83 | 2.83 | 2.84 |
| 10.35 | CFS | 1.74 | 1.81 | 1.87 | 1.93 | 1.99 | 2.06 | 2.14 | 2.22 |
| 10.35 | ELEV | 2.84 | 2.84 | 2.85 | 2.85 | 2.85 | 2.86 | 2.86 | 2.87 |
| 10.75 | CFS | 2.32 | 2.41 | 2.51 | 2.62 | 2.72 | 2.83 | 2.94 | 3.08 |
| 10.75 | ELEV | 2.87 | 2.88 | 2.88 | 2.89 | 2.89 | 2.90 | 2.90 | 2.91 |
| 11.15 | CFS | 3.24 | 3.43 | 3.64 | 3.87 | 4.11 | 4.36 | 4.61 | 4.89 |
| 11.15 | ELEV | 2.92 | 2.93 | 2.94 | 2.95 | 2.96 | 2.98 | 2.99 | 3.01 |
| 11.55 | CFS | 5.49 | 6.93 | 9.42 | 13.29 | 18.32 | 24.72 | 32.84 | 44.65 |
| 11.55 | ELEV | 3.10 | 3.28 | 3.49 | 3.91 | 4.40 | 4.75 | 5.12 | 5.67 |
| 11.95 | CFS | 55.53 | 59.91 | 56.32 | 45.60 | 32.64 | 22.48 | 16.70 | 13.23 |
| 11.95 | ELEV | 6.17 | 6.38 | 6.21 | 5.71 | 5.11 | 4.64 | 4.25 | 3.90 |
| 12.35 | CFS | 11.03 | 9.53 | 8.41 | 7.47 | 6.71 | 6.07 | 5.59 | 5.24 |
| 12.35 | ELEV | 3.67 | 3.50 | 3.41 | 3.33 | 3.26 | 3.18 | 3.11 | 3.06 |
| 12.75 | CFS | 4.98 | 4.77 | 4.59 | 4.42 | 4.26 | 4.10 | 3.95 | 3.81 |
| 12.75 | ELEV | 3.02 | 3.00 | 2.99 | 2.98 | 2.97 | 2.96 | 2.96 | 2.95 |
| 13.15 | CFS | 3.69 | 3.58 | 3.48 | 3.39 | 3.31 | 3.22 | 3.14 | 3.05 |
| 13.15 | ELEV | 2.94 | 2.94 | 2.93 | 2.93 | 2.92 | 2.92 | 2.91 | 2.91 |
| 13.55 | CFS | 2.97 | 2.90 | 2.82 | 2.76 | 2.69 | 2.63 | 2.57 | 2.51 |
| 13.55 | ELEV | 2.90 | 2.90 | 2.90 | 2.89 | 2.89 | 2.89 | 2.88 | 2.88 |
| 13.95 | CFS | 2.45 | 2.39 | 2.34 | 2.28 | 2.24 | 2.21 | 2.18 | 2.15 |
| 13.95 | ELEV | 2.88 | 2.87 | 2.87 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 |
| 14.35 | CFS | 2.13 | 2.11 | 2.09 | 2.06 | 2.04 | 2.02 | 2.00 | 1.98 |
| 14.35 | ELEV | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.85 | 2.85 |
| 14.75 | CFS | 1.96 | 1.94 | 1.92 | 1.90 | 1.88 | 1.86 | 1.84 | 1.82 |
| 14.75 | ELEV | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.84 |
| 15.15 | CFS | 1.80 | 1.78 | 1.76 | 1.73 | 1.72 | 1.69 | 1.67 | 1.65 |
| 15.15 | ELEV | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 |
| 15.55 | CFS | 1.63 | 1.61 | 1.59 | 1.57 | 1.55 | 1.53 | 1.51 | 1.49 |
| 15.55 | ELEV | 2.84 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 15.95 | CFS | 1.47 | 1.44 | 1.42 | 1.41 | 1.39 | 1.38 | 1.37 | 1.36 |
| 15.95 | ELEV | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 16.35 | CFS | 1.35 | 1.34 | 1.34 | 1.33 | 1.32 | 1.31 | 1.31 | 1.30 |
| 16.35 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 16.75 | CFS | 1.29 | 1.28 | 1.28 | 1.27 | 1.26 | 1.25 | 1.25 | 1.24 |
| 16.75 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 | 2.81 |
| 17.15 | CFS | 1.23 | 1.22 | 1.22 | 1.21 | 1.20 | 1.20 | 1.19 | 1.18 |
| 17.15 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 17.55 | CFS | 1.17 | 1.17 | 1.16 | 1.15 | 1.14 | 1.14 | 1.13 | 1.12 |
| 17.55 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 17.95 | CFS | 1.11 | 1.11 | 1.10 | 1.09 | 1.08 | 1.08 | 1.07 | 1.06 |
| 17.95 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 18.35 | CFS | 1.05 | 1.05 | 1.04 | 1.03 | 1.02 | 1.02 | 1.01 | 1.00 |
| 18.35 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.75 | CFS | .99 | .99 | .98 | .97 | .97 | .96 | .95 | .94 |
| 18.75 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.15 | CFS | .94 | .93 | .92 | .91 | .91 | .90 | .89 | .88 |
| 19.15 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.55 | CFS | .88 | .87 | .86 | .85 | .85 | .84 | .83 | .82 |
| 19.55 | ELEV | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.95 | CFS | .82 | .81 | .80 | .79 | .79 | .79 | .78 | .78 |
| 19.95 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.35 | CFS | .78 | .78 | .78 | .77 | .77 | .77 | .77 | .77 |
| 20.35 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.75 | CFS | .77 | .77 | .76 | .76 | .76 | .76 | .76 | .76 |
| 20.75 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.15 | CFS | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .74 |
| 21.15 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.55 | CFS | .74 | .74 | .74 | .74 | .74 | .74 | .73 | .73 |
| 21.55 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.95 | CFS | .73 | .73 | .73 | .73 | .73 | .72 | .72 | .72 |
| 21.95 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.35 | CFS | .72 | .72 | .72 | .71 | .71 | .71 | .71 | .71 |
| 22.35 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.75 | CFS | .71 | .71 | .70 | .70 | .70 | .70 | .70 | .70 |
| 22.75 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.15 | CFS | .70 | .69 | .69 | .69 | .69 | .69 | .69 | .68 |
| 23.15 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.55 | CFS | .68 | .68 | .68 | .68 | | | | |
| 23.55 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 6.31 WATERSHED INCHES; 48 CFS-HRS; 4.0 ACRE-FEET.

| | | | | | | | | |
|---------------|---|---|---|---|----|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| FLOW(CFS) | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

DURATION(HRS) 16
 FLOW(CFS) 1 TRUNCATED

--- STRUCTURE 1, ALTERNATE 1, STORM 99, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RESVOR STRUCTURE 1

| PEAK TIME(HRS) | PEAK DISCHARGE(CFS) | PEAK ELEVATION(FEET) |
|----------------|---------------------|----------------------|
| 12.16 | 30.4 | 5.01 |
| 13.15 | 4.4 | 2.98 |
| 13.25 | 4.1 | 2.96 |
| 13.35 | 3.8 | 2.95 |
| 13.45 | 3.6 | 2.94 |
| 13.55 | 3.4 | 2.93 |
| 13.65 | 3.2 | 2.92 |
| 13.75 | 3.0 | 2.91 |
| 14.25 | 2.4 | 2.87 |
| 14.35 | 2.3 | 2.87 |

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =99
 HRS MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|
| 4.00 CFS | .00 | .01 | .01 | .02 | .02 | .03 | .03 | .04 |
| 4.00 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 4.40 CFS | .04 | .05 | .05 | .06 | .07 | .07 | .08 | .08 |
| 4.40 ELEV | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 |
| 4.80 CFS | .09 | .10 | .10 | .11 | .12 | .12 | .13 | .13 |
| 4.80 ELEV | 2.75 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 5.20 CFS | .14 | .15 | .15 | .16 | .17 | .17 | .18 | .19 |
| 5.20 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 5.60 CFS | .20 | .20 | .21 | .22 | .22 | .23 | .24 | .24 |
| 5.60 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 |
| 6.00 CFS | .25 | .26 | .27 | .27 | .28 | .29 | .30 | .30 |
| 6.00 ELEV | 2.76 | 2.76 | 2.76 | 2.76 | 2.76 | 2.77 | 2.77 | 2.77 |
| 6.40 CFS | .31 | .32 | .33 | .33 | .34 | .35 | .36 | .36 |
| 6.40 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 6.80 CFS | .37 | .38 | .39 | .40 | .40 | .41 | .42 | .43 |
| 6.80 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| 7.20 CFS | .44 | .44 | .45 | .46 | .47 | .48 | .48 | .49 |
| 7.20 ELEV | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 |
| 7.60 CFS | .50 | .51 | .52 | .53 | .53 | .54 | .55 | .56 |
| 7.60 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 8.00 CFS | .57 | .58 | .59 | .60 | .62 | .63 | .65 | .67 |
| 8.00 ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| 8.40 CFS | .69 | .71 | .73 | .76 | .78 | .80 | .82 | .84 |
| 8.40 ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 8.80 CFS | .87 | .89 | .92 | .94 | .96 | .99 | 1.01 | 1.03 |
| 8.80 ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 9.20 CFS | 1.04 | 1.06 | 1.07 | 1.08 | 1.09 | 1.10 | 1.10 | 1.12 |
| 9.20 ELEV | 2.80 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 9.60 CFS | 1.13 | 1.15 | 1.17 | 1.21 | 1.24 | 1.28 | 1.31 | 1.35 |
| 9.60 ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.82 | 2.82 | 2.82 |
| 10.00 CFS | 1.39 | 1.43 | 1.48 | 1.52 | 1.57 | 1.63 | 1.69 | 1.74 |
| 10.00 ELEV | 2.82 | 2.82 | 2.83 | 2.83 | 2.83 | 2.83 | 2.84 | 2.84 |
| 10.40 CFS | 1.80 | 1.86 | 1.93 | 1.99 | 2.06 | 2.14 | 2.22 | 2.31 |
| 10.40 ELEV | 2.84 | 2.85 | 2.85 | 2.85 | 2.86 | 2.86 | 2.87 | 2.87 |
| 10.80 CFS | 2.41 | 2.51 | 2.61 | 2.72 | 2.82 | 2.94 | 3.07 | 3.23 |
| 10.80 ELEV | 2.88 | 2.88 | 2.89 | 2.89 | 2.90 | 2.90 | 2.91 | 2.92 |

TR20

SCS -

09/16/** JONES POINT PARK EXISTING CONDITIONS VERSION
 11:42:54 FILENAME: JPPCUL1P.dat 9/16/05 BY: TLH 2.04TEST
 PASS 6 JOB NO. 1 PAGE 31

| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11.20 | CFS | 3.42 | 3.64 | 3.87 | 4.11 | 4.36 | 4.61 | 4.83 | 5.05 |
| 11.20 | ELEV | 2.93 | 2.94 | 2.95 | 2.96 | 2.98 | 2.99 | 3.00 | 3.03 |
| 11.60 | CFS | 5.76 | 7.15 | 9.37 | 11.41 | 14.17 | 15.89 | 17.73 | 20.05 |
| 11.60 | ELEV | 3.13 | 3.30 | 3.49 | 3.72 | 4.00 | 4.17 | 4.35 | 4.53 |
| 12.00 | CFS | 23.74 | 27.11 | 29.44 | 30.39 | 30.12 | 29.08 | 27.70 | 26.17 |
| 12.00 | ELEV | 4.70 | 4.86 | 4.97 | 5.01 | 5.00 | 4.95 | 4.88 | 4.81 |
| 12.40 | CFS | 24.62 | 23.08 | 21.60 | 20.18 | 19.02 | 18.17 | 17.34 | 16.43 |
| 12.40 | ELEV | 4.74 | 4.67 | 4.60 | 4.54 | 4.46 | 4.39 | 4.31 | 4.22 |
| 12.80 | CFS | 15.08 | 13.42 | 10.92 | 8.45 | 6.13 | 4.85 | 3.08 | 4.38 |
| 12.80 | ELEV | 4.09 | 3.92 | 3.66 | 3.41 | 3.19 | 3.01 | 2.91 | 2.98 |
| 13.20 | CFS | 2.93 | 4.09 | 2.82 | 3.85 | 2.71 | 3.62 | 2.60 | 3.40 |
| 13.20 | ELEV | 2.90 | 2.96 | 2.90 | 2.95 | 2.89 | 2.94 | 2.89 | 2.93 |
| 13.60 | CFS | 2.50 | 3.20 | 2.40 | 3.03 | 2.32 | 2.87 | 2.23 | 2.71 |
| 13.60 | ELEV | 2.88 | 2.92 | 2.88 | 2.91 | 2.87 | 2.90 | 2.87 | 2.89 |
| 14.00 | CFS | 2.15 | 2.57 | 2.07 | 2.45 | 2.01 | 2.36 | 1.98 | 2.29 |
| 14.00 | ELEV | 2.86 | 2.88 | 2.86 | 2.88 | 2.85 | 2.87 | 2.85 | 2.87 |
| 14.40 | CFS | 1.96 | 2.23 | 1.93 | 2.17 | 1.91 | 2.12 | 1.88 | 2.06 |
| 14.40 | ELEV | 2.85 | 2.87 | 2.85 | 2.86 | 2.85 | 2.86 | 2.85 | 2.86 |
| 14.80 | CFS | 1.85 | 2.01 | 1.82 | 1.96 | 1.79 | 1.91 | 1.75 | 1.86 |
| 14.80 | ELEV | 2.85 | 2.85 | 2.84 | 2.85 | 2.84 | 2.85 | 2.84 | 2.85 |
| 15.20 | CFS | 1.72 | 1.81 | 1.68 | 1.76 | 1.65 | 1.72 | 1.61 | 1.67 |
| 15.20 | ELEV | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.83 | 2.84 |
| 15.60 | CFS | 1.58 | 1.62 | 1.54 | 1.58 | 1.50 | 1.53 | 1.46 | 1.49 |
| 15.60 | ELEV | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 16.00 | CFS | 1.42 | 1.44 | 1.39 | 1.41 | 1.36 | 1.38 | 1.34 | 1.37 |
| 16.00 | ELEV | 2.82 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 16.40 | CFS | 1.33 | 1.35 | 1.32 | 1.33 | 1.30 | 1.32 | 1.29 | 1.30 |
| 16.40 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 16.80 | CFS | 1.28 | 1.28 | 1.26 | 1.27 | 1.25 | 1.25 | 1.23 | 1.24 |
| 16.80 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 | 2.81 |
| 17.20 | CFS | 1.22 | 1.22 | 1.21 | 1.21 | 1.19 | 1.19 | 1.18 | 1.18 |
| 17.20 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 17.60 | CFS | 1.16 | 1.16 | 1.15 | 1.15 | 1.13 | 1.13 | 1.12 | 1.12 |
| 17.60 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 18.00 | CFS | 1.10 | 1.10 | 1.09 | 1.09 | 1.08 | 1.07 | 1.06 | 1.06 |
| 18.00 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.80 |
| 18.40 | CFS | 1.05 | 1.04 | 1.03 | 1.03 | 1.02 | 1.01 | 1.00 | 1.00 |
| 18.40 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.80 | CFS | .99 | .98 | .97 | .97 | .96 | .95 | .94 | .94 |
| 18.80 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.20 | CFS | .93 | .92 | .91 | .91 | .90 | .89 | .88 | .88 |
| 19.20 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.60 | CFS | .87 | .86 | .85 | .85 | .84 | .83 | .82 | .82 |
| 19.60 | ELEV | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.00 | CFS | .81 | .80 | .79 | .79 | .79 | .78 | .78 | .78 |
| 20.00 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.40 | CFS | .78 | .78 | .77 | .77 | .77 | .77 | .77 | .77 |
| 20.40 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.80 | CFS | .77 | .76 | .76 | .76 | .76 | .76 | .76 | .75 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 20.80 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.20 | CFS | .75 | .75 | .75 | .75 | .75 | .75 | .74 | .74 |
| 21.20 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.60 | CFS | .74 | .74 | .74 | .74 | .74 | .73 | .73 | .73 |
| 21.60 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.00 | CFS | .73 | .73 | .73 | .73 | .72 | .72 | .72 | .72 |
| 22.00 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.40 | CFS | .72 | .72 | .71 | .71 | .71 | .71 | .71 | .71 |
| 22.40 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.80 | CFS | .71 | .70 | .70 | .70 | .70 | .70 | .70 | .70 |
| 22.80 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.20 | CFS | .69 | .69 | .69 | .69 | .69 | .69 | .68 | .68 |
| 23.20 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.60 | CFS | .68 | .68 | .68 | | | | | |
| 23.60 | ELEV | 2.79 | 2.79 | 2.79 | | | | | |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 6.28 WATERSHED INCHES; 48 CFS-HRS; 4.0 ACRE-FEET.

| | | | | | | | | |
|---------------|---|---|---|---|----|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| FLOW(CFS) | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

DURATION(HRS) 16
 FLOW(CFS) 1 TRUNCATED

--- STRUCTURE 1, ALTERNATE 1, STORM 99, HYDROGRAPH ADDED TO READHD FILE ---

OPERATION RUNOFF STRUCTURE 1

PEAK TIME(HRS) 12.00 PEAK DISCHARGE(CFS) 59.9 PEAK ELEVATION(FEET) (RUNOFF)

HYDROGRAPH POINTS FOR ALTERNATE = 1, STORM =99
 MAIN TIME INCREMENT = .050 hr, DRAINAGE AREA = .01 SQ.MI.

| | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| HRS | 7.55 | 7.55 | 7.95 | 7.95 | 8.35 | 8.35 | 8.75 | 8.75 | 9.15 | 9.15 | 9.55 | 9.55 | 9.95 | 9.95 | 10.35 | 10.35 |
| CFS | .49 | .50 | .56 | .57 | .67 | .69 | .85 | .87 | 1.03 | 1.04 | 1.12 | 1.13 | 1.35 | 1.39 | 1.74 | 1.81 |
| ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.80 | 2.80 | 2.80 | 2.81 | 2.81 | 2.82 | 2.82 | 2.84 | 2.84 |
| CFS | .51 | .51 | .58 | .59 | .71 | .73 | .89 | .92 | 1.06 | 1.07 | 1.15 | 1.18 | 1.43 | 1.48 | 1.87 | 1.93 |
| ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.80 | 2.80 | 2.80 | 2.81 | 2.81 | 2.83 | 2.83 | 2.85 | 2.85 |
| CFS | .53 | .53 | .60 | .62 | .76 | .78 | .94 | .96 | 1.08 | 1.09 | 1.21 | 1.24 | 1.52 | 1.58 | 1.99 | 2.06 |
| ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.80 | 2.80 | 2.80 | 2.81 | 2.81 | 2.83 | 2.83 | 2.86 | 2.86 |
| CFS | .54 | .54 | .63 | .63 | .80 | .80 | .99 | .99 | 1.10 | 1.10 | 1.28 | 1.28 | 1.63 | 1.63 | 2.14 | 2.14 |
| ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.80 | 2.80 | 2.80 | 2.81 | 2.81 | 2.83 | 2.83 | 2.86 | 2.86 |
| CFS | .55 | .55 | .65 | .65 | .82 | .82 | 1.01 | 1.01 | 1.10 | 1.10 | 1.32 | 1.32 | 1.69 | 1.69 | 2.22 | 2.22 |
| ELEV | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.79 | 2.80 | 2.80 | 2.80 | 2.81 | 2.81 | 2.84 | 2.84 | 2.87 | 2.87 |

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| | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10.75 | CFS | 2.32 | 2.41 | 2.51 | 2.62 | 2.72 | 2.83 | 2.94 | 3.08 |
| 10.75 | ELEV | 2.87 | 2.88 | 2.88 | 2.89 | 2.89 | 2.90 | 2.90 | 2.91 |
| 11.15 | CFS | 3.24 | 3.43 | 3.64 | 3.87 | 4.11 | 4.36 | 4.61 | 4.89 |
| 11.15 | ELEV | 2.92 | 2.93 | 2.94 | 2.95 | 2.96 | 2.98 | 2.99 | 3.01 |
| 11.55 | CFS | 5.49 | 6.93 | 9.42 | 13.29 | 18.32 | 24.72 | 32.84 | 44.65 |
| 11.55 | ELEV | 3.10 | 3.28 | 3.49 | 3.91 | 4.40 | 4.75 | 5.12 | 5.67 |
| 11.95 | CFS | 55.53 | 59.91 | 56.32 | 45.60 | 32.64 | 22.48 | 16.70 | 13.23 |
| 11.95 | ELEV | 6.17 | 6.38 | 6.21 | 5.71 | 5.11 | 4.64 | 4.25 | 3.90 |
| 12.35 | CFS | 11.03 | 9.53 | 8.41 | 7.47 | 6.71 | 6.07 | 5.59 | 5.24 |
| 12.35 | ELEV | 3.67 | 3.50 | 3.41 | 3.33 | 3.26 | 3.18 | 3.11 | 3.06 |
| 12.75 | CFS | 4.98 | 4.77 | 4.59 | 4.42 | 4.26 | 4.10 | 3.95 | 3.81 |
| 12.75 | ELEV | 3.02 | 3.00 | 2.99 | 2.98 | 2.97 | 2.96 | 2.96 | 2.95 |
| 13.15 | CFS | 3.69 | 3.58 | 3.48 | 3.39 | 3.31 | 3.22 | 3.14 | 3.05 |
| 13.15 | ELEV | 2.94 | 2.94 | 2.93 | 2.93 | 2.92 | 2.92 | 2.91 | 2.91 |
| 13.55 | CFS | 2.97 | 2.90 | 2.82 | 2.76 | 2.69 | 2.63 | 2.57 | 2.51 |
| 13.55 | ELEV | 2.90 | 2.90 | 2.90 | 2.89 | 2.89 | 2.89 | 2.88 | 2.88 |
| 13.95 | CFS | 2.45 | 2.39 | 2.34 | 2.28 | 2.24 | 2.21 | 2.18 | 2.15 |
| 13.95 | ELEV | 2.88 | 2.87 | 2.87 | 2.87 | 2.87 | 2.86 | 2.86 | 2.86 |
| 14.35 | CFS | 2.13 | 2.11 | 2.09 | 2.06 | 2.04 | 2.02 | 2.00 | 1.98 |
| 14.35 | ELEV | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.85 | 2.85 |
| 14.75 | CFS | 1.96 | 1.94 | 1.92 | 1.90 | 1.88 | 1.86 | 1.84 | 1.82 |
| 14.75 | ELEV | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.84 |
| 15.15 | CFS | 1.80 | 1.78 | 1.76 | 1.73 | 1.72 | 1.69 | 1.67 | 1.65 |
| 15.15 | ELEV | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 |
| 15.55 | CFS | 1.63 | 1.61 | 1.59 | 1.57 | 1.55 | 1.53 | 1.51 | 1.49 |
| 15.55 | ELEV | 2.84 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 |
| 15.95 | CFS | 1.47 | 1.44 | 1.42 | 1.41 | 1.39 | 1.38 | 1.37 | 1.36 |
| 15.95 | ELEV | 2.83 | 2.83 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 16.35 | CFS | 1.35 | 1.34 | 1.34 | 1.33 | 1.32 | 1.31 | 1.31 | 1.30 |
| 16.35 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 |
| 16.75 | CFS | 1.29 | 1.28 | 1.28 | 1.27 | 1.26 | 1.25 | 1.25 | 1.24 |
| 16.75 | ELEV | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.82 | 2.81 | 2.81 |
| 17.15 | CFS | 1.23 | 1.22 | 1.22 | 1.21 | 1.20 | 1.20 | 1.19 | 1.18 |
| 17.15 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 17.55 | CFS | 1.17 | 1.17 | 1.16 | 1.15 | 1.14 | 1.14 | 1.13 | 1.12 |
| 17.55 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 17.95 | CFS | 1.11 | 1.11 | 1.10 | 1.09 | 1.08 | 1.08 | 1.07 | 1.06 |
| 17.95 | ELEV | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 |
| 18.35 | CFS | 1.05 | 1.05 | 1.04 | 1.03 | 1.02 | 1.02 | 1.01 | 1.00 |
| 18.35 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 18.75 | CFS | .99 | .99 | .98 | .97 | .97 | .96 | .95 | .94 |
| 18.75 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.15 | CFS | .94 | .93 | .92 | .91 | .91 | .90 | .89 | .88 |
| 19.15 | ELEV | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| 19.55 | CFS | .88 | .87 | .86 | .85 | .85 | .84 | .83 | .82 |
| 19.55 | ELEV | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 19.95 | CFS | .82 | .81 | .80 | .79 | .79 | .79 | .78 | .78 |
| 19.95 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.35 | CFS | .78 | .78 | .78 | .77 | .77 | .77 | .77 | .77 |

TR20 ----- SCS -
 JONES POINT PARK EXISTING CONDITIONS
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| | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|
| 20.35 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 20.75 | CFS | .77 | .77 | .76 | .76 | .76 | .76 | .76 | .76 |
| 20.75 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.15 | CFS | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .74 |
| 21.15 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.55 | CFS | .74 | .74 | .74 | .74 | .74 | .74 | .73 | .73 |
| 21.55 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 21.95 | CFS | .73 | .73 | .73 | .73 | .73 | .72 | .72 | .72 |
| 21.95 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.35 | CFS | .72 | .72 | .72 | .71 | .71 | .71 | .71 | .71 |
| 22.35 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 22.75 | CFS | .71 | .71 | .70 | .70 | .70 | .70 | .70 | .70 |
| 22.75 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.15 | CFS | .70 | .69 | .69 | .69 | .69 | .69 | .69 | .68 |
| 23.15 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |
| 23.55 | CFS | .68 | .68 | .68 | .68 | .68 | .68 | .68 | .68 |
| 23.55 | ELEV | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 |

RUNOFF ABOVE BASEFLOW (BASEFLOW = .00 CFS)
 6.31 WATERSHED INCHES; 48 CFS-HRS; 4.0 ACRE-FEET.

| | | | | | | | | |
|---------------|---|---|---|---|----|----|----|----|
| DURATION(HRS) | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
| FLOW(CFS) | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

DURATION(HRS) 16
 FLOW(CFS) 1 TRUNCATED

--- STRUCTURE 1, ALTERNATE 1, STORM 99, HYDROGRAPH ADDED TO READHD FILE ---

EXECUTIVE CONTROL ENDCMP COMPUTATIONS COMPLETED FOR PASS 6

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
 A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
 F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

| XSECTION/
STRUCTURE
ID | STANDARD
CONTROL
OPERATION | DRAINAGE
AREA
(SQ MI) | RUNOFF
AMOUNT
(IN) | PEAK DISCHARGE | | | |
|------------------------------|----------------------------------|-----------------------------|--------------------------|-------------------|--------------|---------------|---------------|
| | | | | ELEVATION
(FT) | TIME
(HR) | RATE
(CFS) | RATE
(CSM) |

RAINFALL OF 3.11 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.
 RAINFALL NUMBER 2, ARC 2
 MAIN TIME INCREMENT .050 HOURS

ALTERNATE 1 STORM 2

| | | | | | | | |
|-------------|--------|-----|------|------|-------|----|--------|
| STRUCTURE 1 | RUNOFF | .01 | 1.61 | --- | 12.01 | 16 | 1600.0 |
| STRUCTURE 1 | RESVOR | .01 | 1.56 | 3.88 | 12.09 | 13 | 1300.0 |
| STRUCTURE 1 | RUNOFF | .01 | 1.61 | --- | 12.01 | 16 | 1600.0 |
| STRUCTURE 1 | ADDHYD | .02 | 1.59 | 4.90 | 12.04 | 28 | 1400.0 |

RAINFALL OF 4.00 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.

ALTERNATE 1 STORM 5

| | | | | | | | |
|-------------|--------|-----|------|------|-------|----|--------|
| STRUCTURE 1 | RUNOFF | .01 | 2.38 | --- | 12.01 | 23 | 2300.0 |
| STRUCTURE 1 | RESVOR | .01 | 2.38 | 4.20 | 12.12 | 16 | 1600.0 |
| STRUCTURE 1 | RUNOFF | .01 | 2.38 | --- | 12.01 | 23 | 2300.0 |
| STRUCTURE 1 | ADDHYD | .02 | 2.38 | 5.38 | 12.02 | 38 | 1900.0 |

RAINFALL OF 4.78 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.

ALTERNATE 1 STORM 10

| | | | | | | | |
|-------------|--------|-----|------|------|-------|----|--------|
| STRUCTURE 1 | RUNOFF | .01 | 3.08 | --- | 12.01 | 30 | 3000.0 |
| STRUCTURE 1 | RESVOR | .01 | 3.04 | 4.38 | 12.14 | 18 | 1800.0 |
| STRUCTURE 1 | RUNOFF | .01 | 3.08 | --- | 12.01 | 30 | 3000.0 |
| STRUCTURE 1 | ADDHYD | .02 | 3.06 | 5.77 | 12.02 | 47 | 2350.0 |

RAINFALL OF 5.99 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs.

ALTERNATE 1 STORM 25

| | | | | | | | |
|-------------|--------|-----|------|------|-------|----|--------|
| STRUCTURE 1 | RUNOFF | .01 | 4.19 | --- | 12.00 | 40 | 4000.0 |
| STRUCTURE 1 | RESVOR | .01 | 4.18 | 4.61 | 12.16 | 22 | 2200.0 |
| STRUCTURE 1 | RUNOFF | .01 | 4.19 | --- | 12.00 | 40 | 4000.0 |

SUMMARY TABLE 1

SELECTED RESULTS OF STANDARD AND EXECUTIVE CONTROL IN ORDER PERFORMED.
 A CHARACTER FOLLOWING THE PEAK DISCHARGE TIME AND RATE (CFS) INDICATES:
 F-FLAT TOP HYDROGRAPH T-TRUNCATED HYDROGRAPH R-RISING TRUNCATED HYDROGRAPH

| XSECTION/
STRUCTURE
ID | STANDARD
CONTROL
OPERATION | DRAINAGE
AREA
(SQ MI) | RUNOFF
AMOUNT
(IN) | ELEVATION
(FT) | PEAK DISCHARGE | | |
|--|----------------------------------|-----------------------------|--------------------------|-------------------|----------------|---------------|---------------|
| | | | | | TIME
(HR) | RATE
(CFS) | RATE
(CSM) |
| ALTERNATE 1 STORM 25
----- | | | | | | | |
| STRUCTURE 1 | ADDHYD | .02 | 4.19 | 6.34 | 12.02 | 59 | 2950.0 |
| RAINFALL OF 7.05 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs. | | | | | | | |
| ALTERNATE 1 STORM 50
----- | | | | | | | |
| STRUCTURE 1 | RUNOFF | .01 | 5.19 | --- | 12.00 | 49 | 4900.0 |
| STRUCTURE 1 | RESVOR | .01 | 5.16 | 4.80 | 12.16 | 26 | 2600.0 |
| STRUCTURE 1 | RUNOFF | .01 | 5.19 | --- | 12.00 | 49 | 4900.0 |
| STRUCTURE 1 | ADDHYD | .02 | 5.18 | 6.88 | 12.02 | 71 | 3550.0 |
| RAINFALL OF 8.26 inches AND 24.00 hr DURATION, BEGINS AT .0 hrs. | | | | | | | |
| ALTERNATE 1 STORM 99
----- | | | | | | | |
| STRUCTURE 1 | RUNOFF | .01 | 6.31 | --- | 12.00 | 60 | 6000.0 |
| STRUCTURE 1 | RESVOR | .01 | 6.28 | 5.01 | 12.16 | 30 | 3000.0 |
| STRUCTURE 1 | RUNOFF | .01 | 6.31 | --- | 12.00 | 60 | 6000.0 |
| STRUCTURE 1 | ADDHYD | .02 | 6.29 | 7.52 | 12.02 | 85 | 4250.0 |

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
 QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

| XSECTION/
STRUCTURE
ID | DRAINAGE
AREA
(SQ MI) | STORM NUMBERS..... | | | | |
|------------------------------|-----------------------------|--------------------|----|----|----|----|
| | | 2 | 5 | 10 | 25 | 50 |
| STRUCTURE 1 | .02 | | | | | |
| ----- | | | | | | |
| ALTERNATE 1 | | 28 | 38 | 47 | 59 | 71 |

SUMMARY TABLE 3

STORM DISCHARGES (CFS) AT XSECTIONS AND STRUCTURES FOR ALL ALTERNATES
 QUESTION MARK (?) AFTER: OUTFLOW PEAK - RISING TRUNCATED HYDROGRAPH.

| XSECTION/
STRUCTURE
ID | DRAINAGE
AREA
(SQ MI) | STORM NUMBERS..... | | | | |
|------------------------------|-----------------------------|--------------------|--|--|--|--|
| | | 99 | | | | |
| STRUCTURE 1 | .02 | | | | | |
| ----- | | | | | | |
| ALTERNATE 1 | | 85 | | | | |

SUMMARY TABLE #3 / 3A DATA REORDERED IN DESCENDING ORDER FOR ECON2.

ECON2 DATA FILE

| | | | | | | | | | |
|-----------|----|--------------------------------------|--------------|---------|-----|-----|--------|---|---|
| ECON2 | | | | | | | | | |
| TITLE | | JONES POINT PARK EXISTING CONDITIONS | | | | | | | |
| TITLE | | FILENAME: | JPPCUL1P.dat | 9/16/05 | BY: | TLH | | | |
| FLOW-FREQ | -1 | | 85. | 71. | 59. | 47. | 38.ALT | 1 | 1 |
| FLOW-FREQ | -1 | | 28. | | | | ALT | 1 | 2 |

TR20 ----- SCS -
09/16/** JONES POINT PARK EXISTING CONDITIONS VERSION
FILENAME: JPPCUL1P.dat 9/16/05 BY: TLH 2.04TEST

END OF 1 JOBS IN THIS RUN

SCS TR-20, VERSION 2.04TEST
FILES

INPUT = C:\JPPCUL1P.DAT , GIVEN DATA FILE
OUTPUT = C:\JPPCUL1P.OUT , DATED 09/16/**,11:42:54

FILES GENERATED - DATED 09/16/**,11:42:54

FILE C:\JPPCUL1P.TEC CONTAINS ECON2 INFORMATION

FILE C:\JPPCUL1P.TRD CONTAINS READHD INFORMATION

FILE C:\JPPCUL1P.TMG CONTAINS MESSAGE + WARNING INFORMATION

TOTAL NUMBER OF WARNINGS = 13, MESSAGES = 0

JOB ENDED AT 11:42:54
*** TR-20 RUN COMPLETED ***