
 HEC2 VERSION UPDATED AUG 1976
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09,10
 MODIFICATIONS 52,53,54,55,56,57,58,59

T1 TRANSYLVANIA CO 640
 T2 100 YEAR FLOODWAY 645
 T3 MASON CREEK 11-16-76 SFA 650

J1 ICHECK INC NINV IDIR STRT METRIC HVINS Q WSEL FQ
 -10. 7. 0. 0. 0.0 0.0 0.0 0. 2156.530 0.0 655

J2 NPROF IPILOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE
 15.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 15.000 0.0

CCHV= 0.100 CEHV= 0.500

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK ELEV
0	QLOB	QCH	QROB	ALCB	ACH	AROB	VCL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XACH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	ICC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 350.0 480.0 TYPE= 1 TARGET= 130.000

0.18	7.23	2156.53	0.0	2156.53	2156.94	0.41	0.0	0.0	2154.00
1650.	275.	806.	569.	113.	119.	189.	0.	0.	2153.50
0.0	2.44	6.79	3.02	0.070	0.045	0.070	0.0	2149.30	350.00
0.004709	0.	0.	0.	0	0	1	0.0	130.00	480.00

FLOW DISTRIBUTION

STA=	350.	400.	420.	480.
PER 0=	16.7	48.8	34.5	
AREA=	112.7	118.7	188.5	
VEL=	2.4	6.8	3.0	

3470 ENCROACHMENT STATIONS= 350.0 480.0 TYPE= 1 TARGET= 130.000

0.18	7.42	2156.72	0.0	0.0	2157.08	0.36	0.13	0.01	2154.00
1650.	289.	783.	577.	122.	122.	200.	0.	0.	2153.50
0.00	2.37	6.40	2.89	0.070	0.045	0.070	0.044	2149.30	350.00
0.004013	30.	30.	30.	2	0	1	0.0	130.00	480.00

FLOW DISTRIBUTION

STA=	350.	400.	420.	480.
PER 0=	17.5	47.5	35.0	
AREA=	122.1	122.4	199.8	
VEL=	2.4	6.4	2.9	

SPECIAL BRIDGE

 HFC2 VERSION UPDATED AUG 1976
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09,10
 MODIFICATIONS 52,53,54,55,56,57,58,59

T1	TRANSYLANIA CO	5
T2	100 YEAR	10
T3	MASON CREEK 11-16-76 SFA	15

J1	ICHECK	ING	NINV	ICIR	STAT	METPIC	HVINS	Q	WSEL	FQ	
	0.	6.	0.	0.	0.0	0.0	0.0	0.	2155.530	0.0	20

J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	15.000	0.000

J3	1.000	34.000	36.000	4.000	27.000	28.000	9.000	0.0	0.0	0.0	22
NC	0.070	0.070	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0	25
QT	6.000	800.000	1300.000	1650.000	2500.000	1650.000	1650.000	0.0	0.0	0.0	30
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	350.000	480.000	0.0	35

X1	0.180	21.000	400.000	420.000	0.0	0.0	0.0	0.0	0.0	0.0	40
GR	2164.000	0.0	2161.000	17.000	2159.500	45.000	2158.000	110.000	2157.200	143.000	45
GR	2156.000	225.000	2155.100	300.000	2154.000	400.000	2149.900	405.000	2149.300	411.000	50
GR	2149.300	413.000	2150.000	416.000	2153.500	420.000	2153.200	500.000	2153.000	522.000	55
GR	2154.300	544.000	2158.900	600.000	2153.100	642.000	2154.200	678.000	2159.500	700.000	60
GR	2168.000	735.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	350.000	480.000	0.0	70

X1	0.180	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0	75
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	2155.200	2155.200	0.0	80
SR	0.0	1.600	2.600	0.0	20.000	0.0	112.500	0.0	2149.300	2149.300	85
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	350.000	480.000	0.0	90

X1	0.180	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0	95
X2	0.0	0.0	1.000	2155.600	2157.300	0.0	0.0	0.0	0.0	0.0	100
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	2157.300	2157.300	0.0	105
BT	19.000	0.0	2200.000	0.0	17.000	2200.000	0.0	45.000	2200.000	0.0	110
BT	110.000	2200.000	0.0	143.000	2200.000	0.0	350.000	2200.000	0.0	350.000	115
BT	2157.300	0.0	400.000	2157.300	0.0	400.000	2158.000	2155.600	420.000	2158.000	120
BT	2155.600	420.000	2157.400	0.0	480.000	2157.700	0.0	480.000	2200.000	0.0	125
BT	544.000	2200.000	0.0	600.000	2200.000	0.0	642.000	2200.000	0.0	678.000	130
BT	2200.000	0.0	700.000	2200.000	0.0	735.000	2200.000	0.0	0.0	0.0	135
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	350.000	480.000	0.0	140

X*	0.180	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0	145
E	0.0	0.0	0.0	0.0	0.0	0.0	8.100	350.000	480.000	0.0	150

X1	0.200	27.000	372.000	450.000	30.000	30.000	30.000	0.0	0.0	0.0	155
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	2162.700	2161.700	0.0	160
GR	2169.000	30.000	2162.500	65.000	2160.500	100.000	2158.100	200.000	2157.500	250.000	165
GR	2155.900	372.000	2154.900	372.000	2152.600	377.000	2152.300	384.000	2152.400	397.000	170

GR	2153.000	417.000	2150.000	727.000	2150.000	2150.000	2150.000	480.000	0.0	0.0	200
GR	2154.100	573.000	2154.900	450.000	2154.500	475.000	2154.200	0.0	0.0	205	
GR	2154.300	765.000	2154.100	695.000	2154.600	710.000	2155.200	0.0	0.0	185	
ET	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	190	
ET	0.0	0.0	0.0	0.0	8.100	350.000	480.000	0.0	0.0	195	
X1	0.200	41.000	372.000	450.000	5.000	5.000	0.0	0.0	0.0	200	
AT	16.000	30.000	2170.500	0.0	65.000	2169.900	0.0	100.000	2169.000	205	
BT	200.000	2166.500	0.0	250.000	2165.200	0.0	372.000	2162.700	0.0	210	
BT	2162.700	2160.400	450.000	2161.700	2159.200	450.000	2161.700	0.0	475.000	215	
AT	0.0	550.000	2161.900	0.0	573.000	2162.100	0.0	594.000	2162.300	220	
BT	695.000	2163.300	0.0	765.000	2164.200	0.0	785.000	2169.000	0.0	225	
GR	2170.500	30.000	2169.800	65.000	2169.000	100.000	2166.500	200.000	2165.200	235	
GR	2162.700	372.000	2154.900	372.000	2152.600	377.000	2152.300	384.000	2160.200	240	
GR	2160.200	385.000	2152.300	385.000	2152.400	397.000	2160.000	397.000	2160.000	245	
GR	2152.400	398.000	2150.500	410.000	2159.800	410.000	2159.800	411.000	2150.500	250	
GR	2149.900	417.000	2150.100	427.000	2159.600	427.000	2159.600	427.000	2150.100	255	
GR	2150.100	430.000	2150.600	433.000	2153.000	439.000	2159.400	439.000	2159.600	260	
GR	2153.000	440.000	2154.900	450.000	2161.700	475.000	2161.900	550.000	2162.100	265	
GR	2162.300	594.000	2163.300	695.000	2163.400	710.000	2163.700	727.000	2164.200	270	
GR	2169.000	785.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	275	
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	350.000	480.000	280	

X1	0.200	0.0	0.0	20.000	20.000	20.000	20.000	0.0	0.0	0.0	285
X2	0.0	0.0	0.0	0.0	0.0	0.0	1.000	0.0	0.0	0.0	290
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	350.000	480.000	0.0	295
X1	0.200	27.000	372.000	450.000	5.000	5.000	5.000	0.0	0.0	0.0	300
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	2162.000	2162.000	0.0	301
GP	2169.000	30.000	2162.500	65.000	2160.500	100.000	2158.100	200.000	2157.500	250.000	305
GR	2155.900	372.000	2154.900	372.000	2152.600	377.000	2152.300	384.000	2152.400	397.000	310
GR	2150.500	410.000	2149.900	417.000	2150.100	427.000	2150.100	430.000	2150.600	433.000	315
GR	2153.000	439.000	2155.000	442.000	2154.900	450.000	2154.500	475.000	2154.200	550.000	320
GR	2154.100	573.000	2155.300	594.000	2154.100	695.000	2154.600	710.000	2155.200	727.000	325
GR	2164.300	765.000	2169.000	785.000	0.0	0.0	0.0	0.0	0.0	0.0	330
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	350.000	480.000	0.0	335

X1	0.440	20.000	345.000	367.000	1345.000	1345.000	1345.000	0.0	0.0	0.0	340
GR	2191.200	41.000	2176.300	54.000	2172.500	66.000	2166.200	150.000	2163.400	250.000	345
GR	2163.400	324.000	2171.500	345.000	2161.100	350.000	2159.100	352.000	2159.100	366.000	350
GR	2162.600	367.000	2164.400	371.000	2162.500	402.000	2163.000	407.000	2164.700	409.000	355
GR	2164.100	450.000	2166.500	550.000	2166.900	615.000	2176.200	671.000	2180.000	700.000	360
GR	2164.300	765.000	2169.000	785.000	0.0	0.0	0.0	0.0	0.0	0.0	365
NC	0.090	0.070	0.045	0.100	0.500	0.0	0.0	0.0	0.0	0.0	370
BT	6.000	800.000	1300.000	1650.000	2500.000	1300.000	1300.000	0.0	0.0	0.0	375
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	335.000	380.000	0.0	380

X1	0.600	21.000	474.000	500.000	800.000	800.000	800.000	0.0	0.0	0.0	425
GR	2196.000	20.000	2189.400	80.000	2181.000	95.000	2183.600	100.000	2183.600	200.000	430
GR	2180.400	300.000	2179.200	400.000	2180.400	474.000	2174.500	481.000	2173.200	483.000	435
GR	2171.500	483.000	2172.500	490.000	2174.400	498.000	2174.400	500.000	2180.000	500.000	440

X1	0.600	21.000	474.000	500.000	800.000	800.000	800.000	0.0	0.0	0.0	425
GR	2196.000	20.000	2189.400	80.000	2181.000	95.000	2183.600	100.000	2183.600	200.000	430
GR	2180.400	300.000	2179.200	400.000	2180.400	474.000	2174.500	481.000	2173.200	483.000	435
GR	2171.500	483.000	2172.500	490.000	2174.400	498.000	2174.400	500.000	2180.000	500.000	440

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

MATTYON CREEK 11-16-76 SFA

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TO	PERENC	TOPWID	STENCL	STENCR	WSELK
0.18	0.0	0.0	0.0	2149.30	1650.00	2155.53	232.58	0.0	353.93	0.0	0.0	2155.53
0.18	0.0	0.0	0.0	2149.30	1650.00	2156.53	240.44	130.00	130.00	350.00	480.00	2156.53
0.18	30.00	0.0	0.0	2149.30	1650.00	2155.73	268.84	0.0	375.61	0.0	0.0	0.0
0.18	30.00	0.0	0.0	2149.30	1650.00	2156.72	260.45	130.00	130.00	350.00	480.00	0.0
0.18	30.00	2157.30	2155.60	2149.30	1650.00	2158.67	1240.23	0.0	611.74	0.0	0.0	0.0
0.18	30.00	2157.30	2155.60	2149.30	1650.00	2158.84	532.45	130.00	130.00	350.00	480.00	0.0
0.18	30.00	0.0	0.0	2149.30	1650.00	2158.68	1239.53	0.0	611.65	0.0	0.0	0.0
0.18	30.00	0.0	0.0	2149.30	1650.00	2158.87	536.82	130.00	130.00	350.00	480.00	0.0
0.20	30.00	0.0	0.0	2149.90	1650.00	2158.62	584.38	0.0	78.00	0.0	0.0	0.0
0.20	30.00	0.0	0.0	2149.90	1650.00	2158.88	623.66	130.00	78.00	350.00	480.00	0.0
0.20	5.00	2161.70	2160.40	2149.90	1650.00	2158.62	382.91	0.0	87.67	0.0	0.0	0.0
0.20	5.00	2161.70	2160.40	2149.90	1650.00	2158.89	404.99	130.00	88.69	350.00	480.00	0.0
0.20	20.00	2161.70	2160.40	2149.90	1650.00	2158.66	385.54	0.0	87.80	0.0	0.0	0.0
0.20	20.00	2161.70	2160.40	2149.90	1650.00	2158.92	406.89	130.00	88.78	350.00	480.00	0.0
0.20	5.00	0.0	0.0	2149.90	1650.00	2158.67	590.73	0.0	78.00	0.0	0.0	0.0
0.20	5.00	0.0	0.0	2149.90	1650.00	2158.93	628.85	130.00	78.00	350.00	480.00	0.0
0.20	40.00	0.0	0.0	2149.80	1650.00	2158.83	1055.92	0.0	572.76	0.0	0.0	0.0
0.20	40.00	0.0	0.0	2149.80	1650.00	2158.93	379.49	130.00	130.00	350.00	480.00	0.0
0.44	1345.00	0.0	0.0	2159.10	1300.00	2164.53	129.27	0.0	207.26	0.0	0.0	0.0
0.44	1345.00	0.0	0.0	2159.10	1300.00	2164.53	96.94	45.00	45.00	335.00	380.00	0.0
0.60	800.00	0.0	0.0	2164.30	650.00	2171.28	88.25	0.0	23.72	0.0	0.0	0.0
0.60	800.00	0.0	0.0	2164.30	650.00	2172.52	122.78	55.00	25.19	460.00	515.00	0.0
0.64	170.00	0.0	0.0	2171.50	650.00	2176.28	39.16	0.0	21.12	0.0	0.0	0.0
0.64	170.00	0.0	0.0	2171.50	650.00	2176.28	39.16	55.00	21.12	460.00	515.00	0.0
0.64	30.00	0.0	0.0	2171.50	650.00	2177.64	67.75	0.0	22.73	0.0	0.0	0.0
0.64	30.00	0.0	0.0	2171.50	650.00	2177.64	67.74	55.00	22.73	460.00	515.00	0.0
0.64	30.00	2183.60	2181.50	2171.50	650.00	2177.87	52.20	0.0	23.00	0.0	0.0	0.0
0.64	30.00	2183.60	2181.50	2171.50	650.00	2177.87	52.20	55.00	23.00	460.00	515.00	0.0
0.64	20.00	0.0	0.0	2171.50	650.00	2178.59	91.47	0.0	23.86	0.0	0.0	0.0
0.64	20.00	0.0	0.0	2171.50	650.00	2178.59	91.47	55.00	23.86	460.00	515.00	0.0
0.85	1200.00	0.0	0.0	2198.70	630.00	2202.80	39.48	0.0	67.30	0.0	0.0	0.0
0.85	1200.00	0.0	0.0	2198.70	630.00	2202.71	37.08	55.00	53.38	60.00	115.00	0.0
1.02	0.0	0.0	0.0	2204.50	630.00	2208.60	39.43	0.0	67.14	0.0	0.0	0.0
1.02	0.0	0.0	0.0	2204.50	630.00	2208.55	37.85	55.00	55.00	60.00	115.00	0.0

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH 0	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
0.180	1650.000	2155.529	0.0	0.0	0.0	353.927	0.0	0.0

0.180	1650.000	2155.732	0.0	0.203	0.0	375.606	0.0	30.000
0.180	1650.000	2156.716	0.983	0.166	0.0	129.999	245.607	30.000
0.180	1650.000	2158.672	0.0	2.940	0.0	611.745	0.0	30.000
0.180	1650.000	2158.842	0.169	2.126	0.0	129.999	461.746	30.000
0.180	1650.000	2158.677	0.0	0.005	0.0	611.646	0.0	30.000
0.180	1650.000	2158.872	0.194	0.030	0.0	129.999	481.647	30.000
0.200	1650.000	2158.615	0.0	-0.062	0.0	78.000	0.0	30.000
0.200	1650.000	2158.883	0.268	0.011	0.0	78.000	0.0	30.000
0.200	1650.000	2158.621	0.0	0.005	0.0	87.674	0.0	5.000
0.200	1650.000	2158.887	0.267	0.004	0.0	88.693	-1.019	5.000
0.200	1650.000	2158.659	0.0	0.039	0.0	87.797	0.0	20.000
0.200	1650.000	2158.922	0.263	0.034	0.0	88.780	-0.983	20.000
0.200	1650.000	2158.667	0.0	0.008	0.0	78.000	0.0	5.000
0.200	1650.000	2158.928	0.261	0.006	0.0	78.000	0.0	5.000
0.200	1650.000	2158.833	0.0	0.166	0.0	572.759	0.0	40.000
0.200	1650.000	2158.930	0.098	0.003	0.0	129.999	442.760	40.000
0.440	1300.000	2164.525	0.0	5.656	0.0	207.261	0.0	1345.000
0.440	1300.000	2164.525	-0.001	5.598	0.0	44.999	162.262	1345.000
0.600	650.000	2171.275	0.0	6.746	0.0	23.718	0.0	800.000
0.600	650.000	2172.516	1.241	7.988	0.0	25.190	-1.472	800.000
0.640	650.000	2176.283	0.0	5.008	0.0	21.116	0.0	170.000
0.640	650.000	2176.282	-0.001	3.766	0.0	21.116	0.000	170.000
0.640	650.000	2177.642	0.0	1.359	0.0	22.729	0.0	30.000
0.640	650.000	2177.642	0.0	1.360	0.0	22.729	0.0	30.000
0.640	650.000	2177.867	0.0	0.225	0.0	22.998	0.0	30.000
0.640	650.000	2177.867	0.0	0.225	0.0	22.998	0.0	30.000
0.640	650.000	2178.551	0.0	0.723	0.0	23.864	0.0	20.000
0.640	650.000	2178.591	0.0	0.723	0.0	23.864	0.0	20.000
0.850	630.000	2202.799	0.0	24.209	0.0	67.300	0.0	1200.000
0.850	630.000	2202.713	-0.086	24.123	0.0	53.376	13.924	1200.000
1.020	630.000	2208.597	0.0	5.758	0.0	67.136	0.0	0.0
1.020	630.000	2208.546	-0.051	5.833	0.0	54.999	12.137	0.0

DATA FOR LAST CROSS SECTION

PROFILE	TYPE	ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	17.156	0.0	
2	1.000	55.000	5.038	-12.119	

 FE02 VENSILN UPDATED AUG 1976
 FROM CONTACT LNS 01,02,03,04,05,06,07,08,09,10
 IFICATIONS 54753,5455,56,57,58,59

T1 TRANSYLVANIA CO 690
 T2 SOC YEAR 695
 T3 WASON CRLEK 11-16-76 SFA 700

J1 ICHECK INC MINV INTP STRT METRIC HVIMS Q WSEL FQ
 -10. 5. 0. 0.005000 0.0 0.0 0.0 0.0 0.0 0.0

J2 MPROF IFLCT PRFVS XSECV XSECH FN ALICC IRW CHNIM ITRACE
 15.000 0.0 -1.000 3.0 0.0 0.0 0.0 0.0 0.0 0.000

CCHV= 0.10J CCHV= 0.500
 2096 WSEL ACT GIVEN,AVG OF MAX,MIN USED

3245 DIVIDED FLOW

SFCNO	DEPTH	CWSEL	CRIMS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
C	WLLB	VCH	CROR	ALOB	ACH	AROB	WOL	TWA	LEFT/RIGHT
TIME	VLCB	VCH	VFDP	XNL	XKCH	XNR	WTM	FLMIN	SSTA
SLOPE	ALCBL	ALCH	XLOBR	YTRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
C.18	6.84	2159.14	C.C	0.0	2156.42	0.28	0.0	0.0	2154.00
2500.	373.	743.	1383.	204.	111.	497.	0.	0.	2153.50
C.0	1.83	6.70	2.78	0.070	0.045	6.070	0.0	2149.30	215.34
0.005019	0.	0.	0.	0	0	5	0.0	417.17	686.06

3245 DIVIDED FLOW

C.18	7.04	2156.34	0.0	0.0	2156.56	0.22	0.13	0.01	2154.00
2500.	415.	697.	1384.	242.	115.	539.	1.	0.	2153.50
J.00	1.73	6.07	2.57	0.070	0.045	6.070	0.044	2149.30	201.94
C-CC3530	30.	30.	30.	2	0	1	0.0	435.18	686.87

SPECIAL BRIDGE

SR XK XKOM CQFO ROLEN BWC BNP BAREA SS ELCHU ELCHD
 C.0 1.60 2.60 0.0 20.00 0.0 112.50 2149.30 2149.30 0.0

3245 DIVIDED FLOW

PRESSURE AND WEIR FLOW

FGPRS EGLWC H3 CWRIR QPR BAREA BAREATRAP ELLC ELTRD

 FCC2 VERSION UPDATED AUG 1976
 EPPCF CORRECTIONS 01,02,03,04,05,06,07,08,09,10
 MODIFICATIONS 52,53,54,55,56,57,58,59

T1 PENNSYLVANIA CO 665
 T2 ICC YEAR 670
 T3 MASCH CREEK 11-16-76 SEA 675

J1 ICHECK INC ANV ICIS SIRT METRIC HVINS Q WSEL FR
 -10. 4. C. 0. 0.005000 0.0 0.0 0. 0.0 0.0 0.0 680

J2 APPROF IFLECT PRFVS XSECV XSECH EN ALLDC IBH CHNIM LRACE
 3.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.000

CCMV= 0.100 CEMV= 0.500
 2096 WSEL NET GIVEN, AVG OF MAX, MIN USED

3245 DIVIDED FLOW

SECNO	DLPTH	CWSEL	CRWS	WSFLK	EG	HV	PL	OLSS	BANK	FLEV
C	WLCB	WCH	QFOR	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT	
TIME	VLLC	VCH	VRCR	XNL	XNCH	XNP	HTN	ELMIN	SSTA	
SICPE	XLCL	XLCH	XLOBR	ITRIAL	IDC	ICCNT	CDRAP	TOPWID	ENDST	
C.18	6.23	2155.53	0.0	0.0	2155.80	0.27	0.0	0.0	2154.00	
1650.	150.	612.	808.	106.	99.	371.	0.	0.	2153.50	
C.0	1.42	6.20	2.39	0.070	0.045	0.070	0.0	2149.30	264.11	
C.005028	0.	0.	0.	0	0	5	0.0	354.00	683.52	

3265 DIVIDED FLOW

0.18	6.43	2155.73	0.0	0.0	2155.94	0.21	0.13	0.01	2154.00	
1650.	183.	566.	901.	135.	103.	412.	0.	0.	2153.50	
C.00	1.35	5.51	2.19	0.070	0.045	0.070	0.044	2149.30	247.11	
C.003757	30.	30.	30.	2	0	1	0.0	375.81	684.37	

SPECIAL BRIDGE

SR	XK	XKCR	CCFQ	RDLN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	C.0	1.60	2.60	0.0	20.00	0.0	112.50	2149.30	2149.30	0.0

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	CWFIR	QPP	BAREA	BAREA/TRAP	ELLC	ELTRD
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 FSCZ WASHINGTON APR 11 AUG 1976

 CIRCULARS J1, J2, J3, J4, C5, C6, C7, C8, C9, C10

 WASHINGTON 202535455456575859

Handwritten notes:
 2031
 2031
 2031

TI	TRANSYLVANIA CU	10 YEAR	5								
T2	10 YEAR	10									
T3	WASHN GREEN 11-16-76 SFA	15									
J1	ICHECK	INW	IQIP	STRT	METRIC	MVINS	Q	MSEL	FO		
	0.	2.	0.	0.	-1.600000	0.0	0.	0.0	0.0	0.0	20
AC	C.C.C.U	0.070	0.345	0.100	0.500	0.0	0.0	0.0	0.0	0.0	25
CT	E.C.C.U	80J.U.U	130.000	1650.000	2500.000	1650.000	1650.000	0.0	0.0	0.0	30
ET	0.C	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0	35
X1	0.180	400.000	420.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40
GP	2164.000	0.0	2161.000	2159.500	0.0	45.000	2159.000	110.000	2157.200	143.000	45
GR	2156.000	2155.100	300.000	2154.000	0.0	400.000	2149.900	405.000	2149.300	411.000	50
GR	2149.300	2152.000	416.000	2153.500	0.0	2153.000	500.000	500.000	2153.000	522.000	55
GR	2154.300	2158.900	600.000	2153.100	0.0	642.000	2154.200	678.000	2159.500	700.000	60
GR	2168.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65
ET	0.C	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0	70
X1	0.180	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0	0.0	75
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	2155.200	2155.200	0.0	80
S4	0.C	1.600	2.600	0.0	20.000	0.0	112.500	2149.300	2149.300	0.0	85
ET	0.C	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0	90
X1	0.180	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0	95
X2	0.0	1.000	2155.600	2157.300	0.0	0.0	0.0	0.0	0.0	0.0	100
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	2157.300	2157.300	0.0	105
RT	19.000	2164.000	0.0	17.000	0.0	2161.000	0.0	45.000	2159.500	0.0	110
RT	110.000	2158.000	143.000	2157.800	0.0	0.0	225.000	2157.500	0.0	300.000	115
RT	2157.300	0.0	400.000	2157.300	0.0	400.000	2158.000	2155.600	420.000	2158.000	120
BT	2155.600	2157.400	0.0	500.000	0.0	2157.700	0.0	522.000	2158.000	0.0	125
BT	544.000	2158.200	600.000	2158.800	0.0	642.000	2159.100	2159.100	0.0	678.000	130
RT	2159.300	0.0	700.000	2159.000	0.0	735.000	2168.000	0.0	0.0	0.0	135
ET	0.C	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0	140
X1	0.180	0.0	0.0	30.000	30.000	30.000	30.000	0.0	0.0	0.0	145
ET	0.0	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0	150
X1	0.200	372.000	450.000	30.000	30.000	30.000	30.000	0.0	0.0	0.0	155
GP	10.000	0.0	0.0	0.0	0.0	0.0	0.0	2162.700	2161.700	0.0	160
GP	2169.000	30.000	65.000	2160.500	0.0	100.000	2158.100	200.000	2157.500	250.000	165
GP	2155.500	372.000	372.000	2152.600	0.0	377.000	2152.300	384.000	2152.400	397.000	170
GR	2150.500	2149.900	417.000	2150.100	0.0	427.000	2150.100	430.000	2150.600	433.000	175
GR	2153.000	2155.000	442.000	2154.900	0.0	450.000	2154.500	475.000	2154.200	550.000	180
GR	2154.100	2155.300	594.000	2154.100	0.0	695.000	2154.600	710.000	2155.200	727.000	185
ET	0.C	2165.000	795.000	0.0	0.0	0.0	8.100	0.0	0.0	0.0	190
ET	0.C	0.0	0.0	0.0	0.0	0.0	8.100	0.0	0.0	0.0	195

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

SECTION 11-10-76 SPA

SECTION CEMENTED MIN. LL. OF MAX. FL. OF DISCHARGE C.W.S.E.L. JO PEREHC TOPWLD STIENCL STIENCR WSELK
 RUMBLE LEADLINE ROADWAY LOW CPTDND GROUND (CFS)

C.18	5.0	5.0	2149.30	800.00	2154.31	83.53	0.0	217.86	0.0	0.0	0.0
C.18	5.0	5.0	2149.30	1300.00	2155.22	133.50	0.0	320.76	0.0	0.0	0.0
C.18	5.0	5.0	2149.30	1650.00	2155.53	232.70	0.0	354.00	0.0	0.0	0.0
C.18	5.0	5.0	2149.30	2500.00	2156.14	352.87	0.0	417.17	0.0	0.0	0.0
C.18	5.0	5.0	2149.30	800.00	2154.23	51.78	0.0	23.00	0.0	0.0	0.0
C.18	5.0	5.0	2149.30	1300.00	2155.43	215.69	0.0	343.08	0.0	0.0	0.0
C.18	5.0	5.0	2149.30	1650.00	2155.73	269.20	0.0	375.31	0.0	0.0	0.0
C.18	5.0	5.0	2149.30	2500.00	2156.34	398.77	0.0	435.18	0.0	0.0	0.0
C.18	5.0	5.0	2155.60	800.00	2155.86	57.62	0.0	20.00	0.0	0.0	0.0
C.18	5.0	5.0	2155.60	1300.00	2157.81	863.93	0.0	554.25	0.0	0.0	0.0
C.18	5.0	5.0	2155.60	1650.00	2158.14	1000.85	0.0	576.34	0.0	0.0	0.0
C.18	5.0	5.0	2155.60	2500.00	2158.67	1236.25	0.0	611.19	0.0	0.0	0.0
C.18	5.0	5.0	2149.30	800.00	2156.94	563.54	0.0	491.00	0.0	0.0	0.0
C.18	5.0	5.0	2149.30	1300.00	2157.81	863.45	0.0	554.17	0.0	0.0	0.0
C.18	5.0	5.0	2149.30	1650.00	2158.15	1020.28	0.0	576.25	0.0	0.0	0.0
C.18	5.0	5.0	2149.30	2500.00	2158.58	1242.10	0.0	612.00	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	800.00	2156.93	364.65	0.0	78.00	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	1300.00	2157.77	469.38	0.0	78.00	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	1650.00	2158.08	510.52	0.0	78.00	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	2500.00	2158.54	573.19	0.0	78.00	0.0	0.0	0.0
C.20	5.0	5.0	2160.40	800.00	2156.93	256.26	0.0	81.46	0.0	0.0	0.0
C.20	5.0	5.0	2160.40	1300.00	2157.77	317.60	0.0	84.56	0.0	0.0	0.0
C.20	5.0	5.0	2160.40	1650.00	2158.09	341.23	0.0	85.70	0.0	0.0	0.0
C.20	5.0	5.0	2160.40	2500.00	2158.55	376.99	0.0	87.40	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	800.00	2156.95	257.29	0.0	81.52	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	1300.00	2157.81	319.83	0.0	84.67	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	1650.00	2158.13	344.47	0.0	85.86	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	2500.00	2158.65	385.33	0.0	87.79	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	800.00	2156.95	367.20	0.0	78.00	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	1300.00	2157.82	474.67	0.0	78.00	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	1650.00	2158.15	518.91	0.0	78.00	0.0	0.0	0.0
C.20	5.0	5.0	2149.90	2500.00	2158.67	592.09	0.0	78.00	0.0	0.0	0.0
C.20	5.0	5.0	2149.80	800.00	2157.02	419.87	0.0	448.15	0.0	0.0	0.0
C.20	5.0	5.0	2149.80	1300.00	2157.95	702.82	0.0	526.01	0.0	0.0	0.0
C.20	5.0	5.0	2149.80	1650.00	2158.34	849.69	0.0	550.23	0.0	0.0	0.0
C.20	5.0	5.0	2149.80	2500.00	2159.05	1155.03	0.0	582.74	0.0	0.0	0.0
C.44	1345.00	0.0	2159.10	800.00	2163.77	78.03	0.0	159.76	0.0	0.0	0.0
C.44	1345.00	0.0	2159.10	1300.00	2164.55	131.28	0.0	214.58	0.0	0.0	0.0
C.44	1345.00	0.0	2159.10	1650.00	2164.98	173.97	0.0	288.79	0.0	0.0	0.0
C.44	1345.00	0.0	2159.10	2500.00	2165.54	246.72	0.0	345.53	0.0	0.0	0.0

SECTION CHANNEL MIN EL CF MAX EL CF MIN EL CF DISCHARGE CMSFL TO PERENG TOPWID STENCIL STENCPC WSELK

NUMBER	LENGTH	ROADWAY	LCM	CHORD	GROUND	C.F.S.	MIN EL	CF	MAX EL	CF	DISCHARGE	CMSFL	TO	PERENG	TOPWID	STENCIL	STENCPC	WSELK
C.60	800.00	C.C	2164.30	300.00	2165.88	55.19	0.0	22.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.60	800.00	C.C	2164.30	500.00	2170.89	78.71	0.0	23.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.60	800.00	C.C	2164.30	650.00	2171.32	99.25	0.0	23.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.60	800.00	C.C	2164.30	1000.00	2172.61	128.89	0.0	114.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	1700.00	C.C	2171.50	300.00	2174.96	17.55	0.0	19.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	1700.00	C.C	2171.50	500.00	2175.75	29.50	0.0	20.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	1700.00	C.C	2171.50	650.00	2176.23	39.10	0.0	21.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	1700.00	C.C	2171.50	1000.00	2177.35	61.12	0.0	22.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	300.00	C.C	2171.50	300.00	2176.00	33.76	0.0	20.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	300.00	C.C	2171.50	500.00	2177.03	53.75	0.0	21.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	300.00	C.C	2171.50	650.00	2177.64	67.77	0.0	22.73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	300.00	C.C	2171.50	1000.00	2178.92	99.93	0.0	24.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	300.00	C.C	2171.50	300.00	2176.23	30.23	0.0	21.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	300.00	C.C	2171.50	500.00	2177.24	43.46	0.0	22.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	300.00	C.C	2171.50	650.00	2177.87	52.20	0.0	23.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	300.00	C.C	2171.50	1000.00	2179.07	69.68	0.0	24.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	200.00	C.C	2171.50	300.00	2176.56	44.44	0.0	21.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	200.00	C.C	2171.50	500.00	2177.78	71.15	0.0	27.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	200.00	C.C	2171.50	650.00	2178.59	91.49	0.0	23.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.64	200.00	C.C	2171.50	1000.00	2180.48	169.39	0.0	202.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.85	1200.00	C.C	2198.70	290.00	2201.18	14.44	0.0	19.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.85	1200.00	C.C	2198.70	475.00	2201.97	24.36	0.0	22.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.85	1200.00	C.C	2198.70	630.00	2202.80	34.48	0.0	27.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C.85	1200.00	C.C	2198.70	945.00	2203.67	68.42	0.0	102.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.02	C.C	C.C	2204.50	290.00	2206.99	14.53	0.0	19.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.02	C.C	C.C	2204.50	475.00	2207.77	24.46	0.0	22.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.02	C.C	C.C	2204.50	630.00	2208.60	39.43	0.0	67.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.02	C.C	C.C	2204.50	945.00	2209.47	68.35	0.0	102.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SECTION DISCHARGE CMSFL DIFF CMSFL-WSELK TOPWID T.W. DIFF LENGTH

NUMBER	C.F.S.	CMSFL	DIFF	CMSFL	DIFF	CMSFL-WSELK	TOPWID	T.W.	DIFF	LENGTH
C.18C	800.000	2154.313	C.0	0.0	0.0	217.856	0.0	0.0	0.0	0.0
C.18C	1200.000	2155.219	0.906	0.0	0.0	320.762	-102.907	0.0	0.0	0.0
C.18C	1650.000	2155.530	0.311	C.0	0.0	354.001	-136.145	0.0	0.0	0.0
C.180	2500.000	2156.141	0.611	0.0	0.0	417.170	-199.314	0.0	0.0	0.0
C.18C	800.000	2154.235	0.0	-0.078	C.0	20.000	0.0	0.0	30.000	30.000
C.18C	1300.000	2155.427	1.192	0.208	0.0	343.079	-323.079	0.0	30.000	30.000
C.18C	1650.000	2155.733	0.306	0.203	0.0	375.810	-355.810	0.0	30.000	30.000
C.18C	2500.000	2156.337	0.604	0.196	0.0	435.179	-415.179	0.0	30.000	30.000
C.18C	800.000	2155.861	0.0	1.626	J.0	20.000	0.0	0.0	30.000	30.000
C.18C	1300.000	2157.806	1.945	2.379	0.0	554.252	-534.252	0.0	30.000	30.000
C.18C	1650.000	2158.140	0.334	2.407	0.0	576.343	-556.343	0.0	30.000	30.000
C.180	2500.000	2158.670	0.531	2.334	0.0	611.189	-591.189	0.0	30.000	30.000
C.180	800.000	2156.945	0.0	1.084	0.0	491.000	0.0	0.0	30.000	30.000
C.180	1300.000	2157.813	C.868	0.006	0.0	554.172	-63.171	0.0	30.000	30.000
C.180	1650.000	2158.148	0.336	0.008	0.0	576.253	-85.253	0.0	30.000	30.000
C.180	2500.000	2158.683	0.535	0.013	0.0	612.005	-121.004	0.0	30.000	30.000
C.20C	800.000	2156.527	0.0	-0.018	0.0	78.000	0.0	0.0	30.000	30.000
C.20C	1300.000	2157.768	0.841	-0.044	0.0	78.000	0.0	0.0	30.000	30.000
C.20C	1650.000	2158.080	0.312	-0.068	0.0	78.000	0.0	0.0	30.000	30.000

PRCFILE	TYPE_ENC	TARGET	TOP_WIDTH AREA-ACRES	TOP_WIDTH AREA-DIFF	0.0	10.000	0.0	30.000
C.200	800.000	2156.925	0.0	0.002	0.0	81.462	0.0	5.000
C.200	1300.000	2157.772	0.843	0.004	0.0	84.557	-3.095	5.000
C.200	1650.000	2158.085	0.314	0.006	0.0	85.704	-4.242	5.000
C.200	2500.000	2158.549	0.464	0.011	0.0	87.399	-5.937	5.000
C.200	800.000	2156.548	0.0	0.019	0.0	81.516	0.0	20.000
C.200	1300.000	2157.300	0.858	0.034	0.0	84.667	-3.151	20.000
C.200	1650.000	2158.134	0.328	0.049	0.0	85.860	-4.344	20.000
C.200	2500.000	2158.649	0.515	0.100	0.0	87.787	-6.271	20.000
C.200	800.000	2156.955	0.0	0.007	0.0	78.000	0.0	5.000
C.200	1300.000	2157.816	0.861	0.010	0.0	78.000	0.0	5.000
C.200	1650.000	2158.147	0.331	0.012	0.0	78.000	0.0	5.000
C.200	2500.000	2158.669	0.522	0.020	0.0	78.000	0.0	5.000
C.200	800.000	2157.021	0.0	0.066	0.0	448.150	0.0	40.000
C.200	1300.000	2157.950	0.929	0.134	0.0	526.095	-77.855	40.000
C.200	1650.000	2158.342	0.353	0.195	0.0	550.233	-102.983	40.000
C.200	2500.000	2159.051	0.709	0.382	0.0	582.742	-134.592	40.000
C.440	800.000	2163.775	0.0	6.754	0.0	159.757	0.0	1345.000
C.440	1300.000	2164.553	0.778	6.003	0.0	214.576	-54.819	1345.000
C.440	1650.000	2164.983	0.420	6.041	0.0	289.788	-129.031	1345.000
C.440	2500.000	2165.531	0.554	6.406	0.0	345.521	-185.710	1345.000
C.600	300.000	2169.878	0.0	6.103	0.0	22.062	0.0	800.000
C.600	500.000	2170.891	1.013	6.318	0.0	23.271	-1.209	800.000
C.600	650.000	2171.315	0.424	6.333	0.0	23.164	-1.702	800.000
C.600	1000.000	2172.613	1.258	7.076	0.0	114.788	-92.726	800.000
C.640	300.000	2174.961	0.0	5.083	0.0	19.548	0.0	170.000
C.640	500.000	2175.744	0.803	4.873	0.0	20.500	-0.952	170.000
C.640	650.000	2176.280	0.516	4.964	0.0	21.113	-1.564	170.000
C.640	1000.000	2177.351	1.071	4.738	0.0	22.384	-2.836	170.000
C.640	300.000	2175.957	0.0	1.026	0.0	20.778	0.0	30.000
C.640	500.000	2177.003	1.006	1.239	0.0	21.982	-1.204	30.000
C.640	650.000	2177.644	0.641	1.364	0.0	22.729	-1.952	30.000
C.640	1000.000	2178.919	1.275	1.568	0.0	24.239	-3.461	30.000
C.640	300.000	2176.233	0.0	0.236	0.0	21.059	0.0	30.000
C.640	500.000	2177.239	1.006	0.236	0.0	22.252	-1.194	30.000
C.640	650.000	2177.869	0.629	0.225	0.0	22.999	-1.940	30.000
C.640	1000.000	2179.072	1.203	0.153	0.0	24.426	-3.367	30.000
C.640	300.000	2176.557	0.0	0.324	0.0	21.442	0.0	20.000
C.640	500.000	2177.783	1.226	0.544	0.0	22.901	-1.459	20.000
C.640	650.000	2178.591	0.802	0.723	0.0	23.865	-2.424	20.000
C.640	1000.000	2180.480	1.889	1.408	0.0	202.511	-181.070	20.000
C.850	250.000	2201.184	0.0	24.627	0.0	19.676	0.0	1200.000
C.850	475.000	2201.966	0.783	24.183	0.0	22.151	-2.476	1200.000
C.850	620.000	2202.799	0.833	24.208	0.0	67.300	-47.625	1200.000
C.850	945.000	2203.672	0.873	23.193	0.0	102.346	-82.670	1200.000
1.020	250.000	2206.992	0.0	5.808	0.0	19.702	0.0	0.0
1.020	475.000	2207.773	0.781	5.807	0.0	22.173	-2.471	0.0
1.020	620.000	2208.557	0.824	5.758	0.0	67.136	-47.434	0.0
1.020	945.000	2209.470	0.874	5.758	0.0	102.328	-82.626	0.0

DATA FOR LAST CROSS SECTION
 PRCFILE TYPE_ENC TARGET TOP_WIDTH TOP_WIDTH AREA-ACRES AREA-DIFF