
 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIB. 7 BASIN 4 NEUSE RIVER TRIB.
 T2 FLOOD STUDY AT WAKE COUNTY NC M-G JOB NO. 6855 JW APRIL 1976
 T3 100 YEAR FLOODWAY

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	241.030	0.0
J2	NPROF	IPLT	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	0.0

CCHV= 0.100 CEHV= 0.300
 2800 NAT Q1= 255.64 WSEL= 240.03 ENC Q1= 255.64 WSEL= 241.03 RATIO= -0.0000
 NAT Q1= 457. RATIOS LOB,CH,ROB= 0.7943 0.0774 0.1283 WSEL= 241.03
 3280 CROSS SECTION 1000.00 EXTENDED 4.13 FEET

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	ULOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	vroB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENUST
					62.6			4.3	

3470 ENCROACHMENT STATIONS= 476.3 650.8 TYPE= 4 TARGET= 0.440

1000.00	5.13	241.03	0.0	240.03	241.34	0.31	0.0	0.0	238.20
2700.	1992.	358.	351.	472.	56.	98.	0.	0.	237.90
0.0	4.22	6.40	3.59	0.085	0.060	0.085	0.0	235.90	476.32
0.010256	1000.	1000.	1000.	0	0	1	0.0	174.49	650.81

2800 NAT Q1= 758.91 WSEL= 246.90 ENC Q1= 758.91 WSEL= 247.90 RATIO= 0.0

NAT Q1= 1104. RATIOS LOB,CH,ROB= 0.5870 0.1115 0.3015 WSEL= 247.90

3470 ENCROACHMENT STATIONS= 1535.2 1824.5 TYPE= 4 TARGET= 0.313

3500.00	8.96	247.86	0.0	246.90	247.92	0.05	6.54	0.03	244.10
2550.	1352.	410.	788.	775.	153.	501.	59.	13.	244.50
0.38	1.75	2.68	1.57	0.085	0.060	0.085	0.060	238.90	1535.18
0.001127	2500.	2500.	2500.	6	0	1	0.0	289.27	1824.45

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
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SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOODWAY

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
<i>86000</i> A 1000.00	1000.00	0.0	0.0	235.90	1020.00	238.92	97.47	239.03	324.95	0.0	0.0	4.42
1000.00	1000.00	0.0	0.0	235.90	2050.00	239.66	195.11	239.83	349.60	0.0	0.0	5.26
1000.00	1000.00	0.0	0.0	235.90	2700.00	240.03	255.64	240.23	361.91	0.0	0.0	5.68
1000.00	1000.00	0.0	0.0	235.90	5100.00	241.17	487.60	241.45	399.52	0.0	0.0	6.73
1000.00	1000.00	0.0	0.0	235.90	2700.00	50117.93*****	50117.93	50117.93	109.44	507.56	617.00	0.00
<i>416000</i> B 3500.00	2500.00	0.0	0.0	238.90	950.00	245.13	301.05	245.15	417.58	0.0	0.0	1.81
3500.00	2500.00	0.0	0.0	238.90	1900.00	246.30	579.88	246.34	451.51	0.0	0.0	2.21
3500.00	2500.00	0.0	0.0	238.90	2550.00	246.90	758.91	246.94	460.33	0.0	0.0	2.43
3500.00	2500.00	0.0	0.0	238.90	4780.00	248.55	1361.49	248.61	484.61	0.0	0.0	2.99
3500.00	2500.00	0.0	0.0	238.90	2550.00	50117.93*****	50117.93	50117.93	187.34	1532.58	1719.92	0.00
<i>546000</i> C 4700.00	1200.00	0.0	0.0	249.40	490.00	252.41	23.51	253.41	30.71	0.0	0.0	8.02
4700.00	1200.00	0.0	0.0	249.40	1040.00	253.79	44.80	254.42	138.44	0.0	0.0	6.37
4700.00	1200.00	0.0	0.0	249.40	1400.00	254.06	58.01	254.79	164.84	0.0	0.0	6.85
4700.00	1200.00	0.0	0.0	249.40	2700.00	254.87	125.95	255.59	335.70	0.0	0.0	6.93
4700.00	1200.00	0.0	0.0	249.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
1000.000	1020.000	238.919	0.0	0.0	0.0	324.951	0.0	1000.000
1000.000	2050.000	239.662	0.743	0.0	0.0	349.597	-24.646	1000.000
1000.000	2700.000	240.033	0.371	0.0	0.0	361.906	-36.955	1000.000
1000.000	5100.000	241.167	1.134	0.0	0.0	399.517	-74.566	1000.000
1000.000	2700.000	50117.930	49876.760	0.0	0.0	109.439	215.512	1000.000
3500.000	950.000	245.129	0.0	6.210	0.0	417.583	0.0	2500.000
3500.000	1900.000	246.303	1.174	6.640	0.0	451.509	-33.926	2500.000
3500.000	2550.000	246.899	0.596	6.866	0.0	460.334	-42.752	2500.000
3500.000	4780.000	248.548	1.649	7.381	0.0	484.614	-67.031	2500.000
3500.000	2550.000	50117.930	49869.380	0.0	0.0	187.341	230.242	2500.000
4700.000	490.000	252.409	0.0	7.281	0.0	30.708	0.0	1200.000
4700.000	1040.000	253.786	1.377	7.483	0.0	138.436	-107.728	1200.000
4700.000	1400.000	254.057	0.271	7.158	0.0	164.838	-134.130	1200.000
4700.000	2700.000	254.870	0.814	6.322	0.0	335.695	-304.987	1200.000
4700.000	0.0	0.0	-254.870	-50117.930	0.0	0.0	30.708	1200.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	27.483	0.0
2	0.0	0.0	31.115	3.632
3	0.0	0.0	32.206	4.724
4	0.0	0.0	36.670	9.188
5	4.000	0.435	8.516	-18.966

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T1 TRIB. 7 BASIN 4 NEUSE RIVER TRIB.
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	0.0	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300
 2800 NAT Q1= 97.47 WSEL= 238.92 ENC Q1= 97.47 WSEL= 239.92 RATIO= 0.0
 NAT Q1= 236. RATIOS LOB,CH,ROB= 0.8053 0.0949 0.0998 WSEL= 239.92
 2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
 3280 CROSS SECTION 1000.00 EXTENDED 49881.04 FEET

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 507.6 617.0 TYPE= 4 TARGET= 0.587
 1000.00 49882.04 50117.94 0.0 238.92 50117.94 0.00 0.0 0.0 238.20
 2700. 2698. 2. 0. 860284. 598542. 12. 0. 0. 237.90
 0.0 0.00 0.00 0.0 0.085 0.060 0.085 0.0 235.90 507.56
 0.000000 1000. 1000. 1000. 0 0 1 0.0 109.44 617.00

2800 NAT Q1= 301.05 WSEL= 245.13 ENC Q1= 301.05 WSEL= 246.13 RATIO= 0.0
 NAT Q1= 532. RATIOS LOB,CH,ROB= 0.6255 0.1419 0.2326 WSEL= 246.13
 3685 20 TRIALS USED WSEL,CWSEL
 3280 CROSS SECTION 3500.00 EXTENDED 49861.84 FEET

3470 ENCROACHMENT STATIONS= 1532.6 1719.9 TYPE= 4 TARGET= 0.435
 3500.00 49879.04 50117.94 0.0 245.13 50117.94 0.00 0.00 0.00 244.10
 2550. 2054. 365. 131. 7751851. 1097293. 494498. 424773. 9. 244.50
 2528.34 0.00 0.00 0.00 0.085 0.060 0.085 0.060 238.90 1532.57
 0.000000 2500. 2500. 2500. 21 0 1 0.0 187.34 1719.92

2800 NAT Q1= 23.51 WSEL= 252.41 ENC Q1= 31.99 WSEL= 253.41 RATIO= -0.3605
 NAT Q1= 32. RATIOS LOB,CH,ROB= 0.0 1.0000 0.0 WSEL= 253.41
 3840 SECTION NOT HIGH ENOUGH 368.348 319.200 249.400 319.200 33807.888 2

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T1 TRIB. 7 BASIN 4 NEUSE RIVER TRIB.
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.011000	0.0	0.0	0.	245.000	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	4.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

3265 DIVIDED FLOW

3280 CROSS SECTION 1000.00 EXTENDED 4.27 FEET

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1000.00	5.27	241.17	0.0	245.00	241.45	0.29	0.0	0.0	238.20
5100.	4047.	388.	666.	990.	58.	187.	0.	0.	237.90
0.0	4.09	6.73	3.57	0.085	0.060	0.085	0.0	235.90	0.0
0.010940	1000.	1000.	1000.	0	0	5	0.0	399.52	687.76
3500.00	9.65	248.55	0.0	0.0	248.61	0.06	7.14	0.02	244.10
4780.	2764.	502.	1514.	1399.	168.	904.	106.	25.	244.50
0.35	1.98	2.99	1.68	0.085	0.060	0.085	0.060	238.90	1435.63
0.001233	2500.	2500.	2500.	7	0	1	0.0	484.61	1920.24

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIB. 7 BASIN 4 NEUSE RIVER TRIB.
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.011000	0.0	0.0	0.	242.000	0.0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

3265 DIVIDED FLOW

3280 CROSS SECTION 1000.00 EXTENDED 3.13 FEET

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1000.00	4.13	240.03	0.0	242.00	240.23	0.20	0.0	0.0	238.20
2700.	2170.	250.	280.	650.	44.	109.	0.	0.	237.90
0.0	3.34	5.68	2.58	0.085	0.060	0.085	0.0	235.90	0.0
0.011155	1000.	1000.	1000.	0	0	3	0.0	361.91	684.04
3500.00	8.00	246.90	0.0	0.0	246.94	0.04	6.69	0.02	244.10
2550.	1543.	320.	687.	992.	132.	567.	72.	24.	244.50
0.44	1.56	2.43	1.21	0.085	0.060	0.085	0.060	238.90	1447.77
0.001129	2500.	2500.	2500.	6	0	1	0.0	460.33	1908.10

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA

 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIB. 7 BASIN 4 NEUSE RIVER TRIB.
 T2 FLOOD STUDY AT WAKE COUNTY NC M-G JOB NO. 6855 JW APRIL 1976
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NIN	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.0	3.	0.	0.	0.011000	0.0	0.0	0.	240.500	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

3265 DIVIDED FLOW

3280 CROSS SECTION 1000.00 EXTENDED 2.76 FEET

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOSL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1000.00	3.76	239.66	0.0	240.50	239.83	0.17	0.0	0.0	238.20
2050.	1659.	208.	183.	547.	39.	84.	0.	0.	237.90
0.0	3.03	5.26	2.18	0.085	0.060	0.085	0.0	235.90	0.0
0.011039	1000.	1000.	1000.	0	0	5	0.0	349.60	682.83
3500.00	7.40	246.30	0.0	0.0	246.34	0.03	6.49	0.01	244.10
1900.	1179.	261.	460.	849.	118.	449.	60.	23.	244.50
0.49	1.39	2.21	1.02	0.085	0.060	0.085	0.060	238.90	1452.18
0.001074	2500.	2500.	2500.	5	0	1	0.0	451.51	1903.69

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

10 YEAR FLOOD WATER SURF

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
1000.00	1000.00	0.0	0.0	235.90	1020.00	238.92	97.47	239.03	324.95	0.0	0.0	4.42
3500.00	2500.00	0.0	0.0	238.90	950.00	245.13	301.05	245.15	417.58	0.0	0.0	1.81
4700.00	1200.00	0.0	0.0	249.40	490.00	252.41	23.51	253.41	30.71	0.0	0.0	8.02

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
1000.000	1020.000	238.919	0.0	0.0	0.0	324.951	0.0	1000.000
3500.000	950.000	245.129	0.0	6.210	0.0	417.583	0.0	2500.000
4700.000	490.000	252.409	0.0	7.281	0.0	30.708	0.0	1200.000

DATA FOR LAST CROSS SECTION PROFILE

TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	27.483	0.0

30500.000	900.000	331.656	1.773	0.653	0.0	412.591	-246.414	50.000
30500.000	1200.000	332.198	0.543	0.974	0.0	431.463	-265.286	50.000
30500.000	2300.000	335.718	3.519	0.011	0.0	565.940	-390.763	50.000
30500.000	1200.000	50106.859	49771.140	0.0	0.0	30.002	136.176	50.000
32500.000	420.000	336.894	0.0	7.011	0.0	91.298	0.0	2000.000
32500.000	900.000	337.252	0.358	5.596	0.0	97.116	-5.818	2000.000
32500.000	1200.000	337.516	0.264	5.317	0.0	101.202	-9.904	2000.000
32500.000	2300.000	338.001	0.576	2.374	0.0	110.777	-19.479	2000.000
32500.000	1200.000	50106.859	49768.760	0.0	0.0	23.002	68.296	2000.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	176.300	0.0
2	0.0	0.0	246.879	70.579
3	0.0	0.0	262.457	86.157
4	0.0	0.0	313.500	137.200
5	4.000	0.275	69.067	-107.233

21900.000	1700.000	298.137	0.0	1.978	0.0	34.354	0.0	1000.000
21900.000	3450.000	301.601	3.464	1.802	0.0	160.355	-135.001	1000.000
21900.000	4200.000	302.204	0.604	1.605	0.0	204.514	-170.160	1000.000
21900.000	7600.000	305.241	3.037	2.012	0.0	491.479	-457.125	1000.000
21900.000	4200.000	50106.848	49801.600	0.0	0.0	38.002	-3.647	1000.000
25780.000	1700.000	318.994	0.0	20.857	0.0	329.461	0.0	3900.000
25780.000	3450.000	320.570	1.576	18.069	0.0	465.957	-136.496	3900.000
25780.000	4200.000	321.098	0.528	18.907	0.0	511.737	-181.876	3900.000
25780.000	7600.000	322.311	1.213	17.069	0.0	571.460	-241.000	3900.000
25780.000	4200.000	50106.848	49784.570	0.0	0.0	122.560	206.800	3900.000
25830.000	1700.000	318.941	0.0	-0.053	0.0	52.000	0.0	50.000
25830.000	3450.000	320.236	1.295	-0.377	0.0	254.802	-202.802	50.000
25830.000	4200.000	320.705	0.460	-0.353	0.0	307.140	-255.140	50.000
25830.000	7600.000	321.930	1.234	-0.372	0.0	545.247	-403.000	50.000
25830.000	4200.000	50106.848	49784.910	0.0	0.0	52.002	-0.002	50.000
25850.000	1700.000	318.941	0.0	0.000	0.0	52.000	0.0	20.000
25850.000	3450.000	320.321	1.360	0.085	0.0	264.234	-212.234	20.000
25850.000	4200.000	320.717	0.395	0.012	0.0	320.314	-268.314	20.000
25850.000	7600.000	322.091	1.375	0.152	0.0	559.990	-507.990	20.000
25850.000	4200.000	50106.848	49784.750	0.0	0.0	52.002	-0.002	20.000
25900.000	1700.000	319.300	0.0	0.368	0.0	270.005	0.0	50.000
25900.000	3450.000	321.262	1.957	0.040	0.0	442.270	-172.264	50.000
25900.000	4200.000	321.807	0.545	1.001	0.0	487.119	-217.117	50.000
25900.000	7600.000	323.306	1.490	1.215	0.0	571.685	-301.670	50.000
25900.000	4200.000	50106.848	49783.540	0.0	0.0	98.557	171.448	50.000
27100.000	650.000	320.616	0.0	1.308	0.0	636.453	0.0	1200.000
27100.000	1250.000	322.256	1.670	0.004	0.0	688.238	-51.785	1200.000
27100.000	1700.000	322.822	0.566	1.014	0.0	704.870	-68.386	1200.000
27100.000	3250.000	324.515	1.604	1.209	0.0	752.440	-115.987	1200.000
27100.000	1700.000	50106.848	49782.330	0.0	0.0	305.574	330.870	1200.000
28100.000	420.000	320.692	0.0	0.275	0.0	382.302	0.0	1000.000
28100.000	900.000	322.479	1.588	0.224	0.0	438.176	-55.874	1000.000
28100.000	1200.000	323.069	0.589	0.247	0.0	444.443	-62.140	1000.000
28100.000	2300.000	324.784	1.715	0.260	0.0	462.704	-80.401	1000.000
28100.000	1200.000	50106.848	49782.060	0.0	0.0	21.584	360.718	1000.000
29500.000	420.000	323.910	0.0	2.012	0.0	286.759	0.0	1400.000
29500.000	900.000	324.426	0.516	1.947	0.0	397.734	-100.975	1400.000
29500.000	1200.000	324.817	0.391	1.748	0.0	473.911	-187.153	1400.000
29500.000	2300.000	326.095	1.278	1.311	0.0	659.627	-372.860	1400.000
29500.000	1200.000	50106.848	49780.750	0.0	0.0	49.214	237.544	1400.000
30375.000	420.000	328.054	0.0	4.144	0.0	20.268	0.0	875.000
30375.000	900.000	330.244	2.101	5.818	0.0	217.805	-103.537	875.000
30375.000	1200.000	330.566	0.322	5.749	0.0	273.189	-252.921	875.000
30375.000	2300.000	331.236	0.670	5.141	0.0	379.554	-359.265	875.000
30375.000	1200.000	50106.848	49775.610	0.0	0.0	30.002	-9.734	875.000
30425.000	420.000	329.634	0.0	1.580	0.0	27.906	0.0	50.000
30425.000	900.000	330.959	1.325	0.715	0.0	41.000	-13.004	50.000
30425.000	1200.000	331.220	0.261	0.657	0.0	41.000	-13.004	50.000
30425.000	2300.000	332.564	1.344	1.328	0.0	548.472	-518.566	50.000
30425.000	1200.000	50106.848	49774.280	0.0	0.0	41.002	-13.006	50.000
30450.000	420.000	329.647	0.0	0.013	0.0	27.928	0.0	25.000
30450.000	900.000	331.002	1.355	0.044	0.0	41.000	-13.072	25.000
30450.000	1200.000	331.225	0.222	0.005	0.0	41.000	-13.072	25.000
30450.000	2300.000	335.707	4.482	3.143	0.0	994.678	-866.010	25.000
30450.000	1200.000	50106.859	49771.150	0.010	0.0	41.002	-13.074	25.000
30500.000	420.000	329.883	0.0	0.235	0.0	166.177	0.0	50.000

COMPARISON OF BOOK VALUES

12300.000	4800.000	50106.758	49845.660	0.0	0.0	36.002	48.911	2000.000
13100.000	1700.000	261.117	0.0	3.853	0.0	238.053	0.0	800.000
13100.000	3450.000	263.530	2.413	4.497	0.0	276.002	-37.949	800.000
13100.000	4200.000	264.487	0.957	4.912	0.0	290.882	-52.829	800.000
13100.000	7600.000	267.595	3.107	6.497	0.0	335.430	-100.377	800.000
13100.000	4200.000	50106.758	49839.160	0.0	0.0	40.002	198.051	800.000
15570.000	1700.000	270.601	0.0	6.484	0.0	96.086	0.0	2470.000
15570.000	3450.000	272.670	2.069	9.140	0.0	119.478	-23.301	2470.000
15570.000	4200.000	273.158	0.488	8.671	0.0	125.007	-29.016	2470.000
15570.000	7600.000	275.188	2.030	7.593	0.0	148.120	-52.034	2470.000
15570.000	4200.000	50106.758	49831.570	0.0	0.0	30.012	66.084	2470.000
15620.000	1700.000	271.054	0.0	6.453	0.0	79.994	0.0	50.000
15620.000	3450.000	273.359	2.374	6.698	0.0	82.000	-2.006	50.000
15620.000	4200.000	273.978	0.610	6.820	0.0	82.000	-2.006	50.000
15620.000	7600.000	276.236	2.253	1.048	0.0	82.000	-2.006	50.000
15620.000	4200.000	50106.758	49830.520	0.0	0.0	82.002	-2.009	50.000
15650.000	1700.000	271.058	0.0	6.004	0.0	90.004	0.0	30.000
15650.000	3450.000	273.368	2.310	6.010	0.0	82.000	-1.996	30.000
15650.000	4200.000	273.991	0.623	6.013	0.0	82.000	-1.996	30.000
15650.000	7600.000	276.273	2.282	6.078	0.0	82.000	-1.996	30.000
15650.000	4200.000	272.058	-4.216	-49834.700	0.0	82.000	-1.996	30.000
15700.000	1700.000	271.059	0.0	6.001	0.0	101.176	0.0	50.000
15700.000	3450.000	273.400	2.342	6.032	0.0	127.748	-26.572	50.000
15700.000	4200.000	274.054	0.654	6.063	0.0	125.173	-33.997	50.000
15700.000	7600.000	276.576	2.522	6.382	0.0	163.850	-62.674	50.000
15700.000	4200.000	50106.848	49830.270	49834.790	0.0	30.002	71.174	50.000
17700.000	1700.000	279.567	0.0	8.508	0.0	103.307	0.0	2000.000
17700.000	3450.000	282.095	2.528	8.694	0.0	344.440	-241.137	2000.000
17700.000	4200.000	282.832	0.737	8.778	0.0	357.811	-254.508	2000.000
17700.000	7600.000	285.322	2.490	8.746	0.0	406.837	-303.533	2000.000
17700.000	4200.000	50106.848	49821.520	0.0	0.0	36.002	67.301	2000.000
18900.000	1700.000	286.945	0.0	7.378	0.0	66.859	0.0	1200.000
18900.000	3450.000	288.686	1.741	6.591	0.0	176.188	-109.329	1200.000
18900.000	4200.000	289.096	0.410	6.264	0.0	182.598	-115.739	1200.000
18900.000	7600.000	290.611	1.515	5.289	0.0	206.074	-139.215	1200.000
18900.000	4200.000	50106.848	49816.230	0.0	0.0	40.002	26.857	1200.000
20779.000	1700.000	295.435	0.0	8.490	0.0	120.549	0.0	1879.000
20779.000	3450.000	298.129	2.695	9.444	0.0	229.049	-108.499	1879.000
20779.000	4200.000	298.959	0.830	9.863	0.0	253.272	-132.723	1879.000
20779.000	7600.000	301.639	2.689	11.028	0.0	445.446	-224.767	1879.000
20779.000	4200.000	50106.848	49805.210	0.0	0.0	54.002	66.547	1879.000
20829.000	1700.000	295.429	0.0	-0.006	0.0	38.236	0.0	50.000
20829.000	3450.000	297.527	2.098	-0.603	0.0	39.734	-1.408	50.000
20829.000	4200.000	297.982	0.455	-0.978	0.0	40.060	-1.824	50.000
20829.000	7600.000	301.640	3.658	0.001	0.0	255.897	-317.661	50.000
20829.000	4200.000	50106.848	49805.210	0.0	0.0	41.002	-2.766	50.000
20850.000	1700.000	295.429	0.0	0.0	0.0	38.235	0.0	21.000
20850.000	3450.000	298.341	2.912	0.814	0.0	40.311	-2.075	21.000
20850.000	4200.000	298.477	0.136	0.495	0.0	40.417	-2.191	21.000
20850.000	7600.000	301.734	3.258	0.094	0.0	359.695	-321.460	21.000
20850.000	4200.000	50106.848	49805.110	0.0	0.0	41.002	-2.767	21.000
20900.000	1700.000	296.158	0.0	0.729	0.0	146.449	0.0	50.000
20900.000	3450.000	299.799	3.641	1.450	0.0	277.072	-130.624	50.000
20900.000	4200.000	300.599	0.800	2.122	0.0	305.144	-158.695	50.000
20900.000	7600.000	303.230	2.631	1.495	0.0	391.689	-245.240	50.000
20900.000	4200.000	50106.848	49803.620	0.0	0.0	54.002	92.447	50.000

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800.000	4400.000	224.009	1.481	0.098	0.0	473.783	-29.453	50.000
800.000	5700.000	224.728	0.719	0.075	0.0	488.679	-24.348	50.000
800.000	10200.000	226.747	2.019	0.022	0.0	531.037	-86.706	50.000
800.000	5700.000	50106.340	49879.500	0.0	0.0	143.450	300.880	50.000
2600.000	2300.000	225.615	0.0	3.088	0.0	482.593	0.0	1800.000
2600.000	4400.000	227.202	1.587	3.194	0.0	494.376	-11.783	1800.000
2600.000	5700.000	227.998	0.795	3.270	0.0	500.309	-17.716	1800.000
2600.000	10200.000	230.192	2.194	3.445	0.0	516.646	-34.797	1800.000
2600.000	5700.000	50106.340	49876.140	0.0	0.0	296.408	186.005	1800.000
4877.000	2300.000	230.271	0.0	4.655	0.0	188.040	0.0	2277.000
4877.000	4400.000	232.050	1.779	4.847	0.0	421.654	-233.066	2277.000
4877.000	5700.000	232.833	0.783	4.835	0.0	432.563	-244.514	2277.000
4877.000	10200.000	235.020	2.187	4.828	0.0	464.628	-276.579	2277.000
4877.000	5700.000	50106.740	49871.320	0.0	0.0	62.002	126.047	2277.000
4927.000	2300.000	230.235	0.0	-0.036	0.0	50.639	0.0	50.000
4927.000	4400.000	231.085	0.850	-0.065	0.0	50.639	0.0	50.000
4927.000	5700.000	232.125	1.040	-0.706	0.0	50.639	0.0	50.000
4927.000	10200.000	235.255	3.131	0.235	0.0	50.639	0.0	50.000
4927.000	5700.000	50106.340	49871.080	0.0	0.0	50.641	-0.002	50.000
4950.000	2300.000	230.387	0.0	0.152	0.0	50.639	0.0	23.000
4950.000	4400.000	231.912	1.525	0.827	0.0	50.639	0.0	23.000
4950.000	5700.000	233.154	1.242	1.020	0.0	50.639	0.0	23.000
4950.000	10200.000	235.527	2.373	0.271	0.0	50.639	0.0	23.000
4950.000	5700.000	50106.488	49870.960	0.150	0.0	50.641	-0.002	23.000
5000.000	2300.000	231.576	0.0	1.189	0.0	984.617	0.0	50.000
5000.000	4400.000	234.280	2.704	2.368	0.0	1064.470	-79.852	50.000
5000.000	5700.000	235.910	1.630	2.756	0.0	1103.219	-118.662	50.000
5000.000	10200.000	240.598	4.698	5.671	0.0	1171.061	-186.444	50.000
5000.000	5700.000	50106.488	49865.890	0.0	0.0	447.418	537.100	50.000
7500.000	1980.000	236.334	0.0	4.756	0.0	47.639	0.0	2500.000
7500.000	3800.000	238.706	2.372	4.427	0.0	166.164	-118.525	2500.000
7500.000	4800.000	239.325	0.619	3.415	0.0	173.580	-125.941	2500.000
7500.000	8600.000	241.214	1.889	0.616	0.0	196.219	-147.581	2500.000
7500.000	4800.000	50106.488	49865.270	0.0	0.0	52.002	-4.363	2500.000
10181.000	1980.000	250.010	0.0	13.695	0.0	276.316	0.0	2691.000
10181.000	3800.000	251.935	1.016	13.220	0.0	322.577	-46.261	2691.000
10181.000	4800.000	252.788	0.854	13.463	0.0	342.096	-66.680	2691.000
10181.000	8600.000	255.207	2.419	17.064	0.0	412.146	-135.824	2691.000
10181.000	4800.000	50106.488	49851.280	0.0	0.0	83.020	192.396	2691.000
10231.000	1980.000	249.968	0.0	-0.051	0.0	103.243	0.0	50.000
10231.000	3800.000	251.854	1.896	-0.071	0.0	280.773	-47.520	50.000
10231.000	4800.000	252.739	0.875	-0.049	0.0	319.286	-126.043	50.000
10231.000	8600.000	255.208	2.468	0.000	0.0	415.533	-222.289	50.000
10231.000	4800.000	50106.488	49851.280	0.0	0.0	51.032	142.241	50.000
10250.000	1980.000	250.241	0.0	0.273	0.0	51.000	0.0	19.000
10250.000	3800.000	252.118	1.877	0.254	0.0	202.187	-241.187	19.000
10250.000	4800.000	252.983	0.865	0.244	0.0	329.831	-278.831	19.000
10250.000	8600.000	255.433	2.450	0.226	0.0	421.228	-370.228	19.000
10250.000	4800.000	50106.758	49851.320	0.270	0.0	51.002	-0.002	19.000
10300.000	1980.000	250.604	0.0	0.367	0.0	373.408	0.0	50.000
10300.000	3800.000	252.512	1.008	0.394	0.0	463.578	-90.120	50.000
10300.000	4800.000	253.375	0.863	0.391	0.0	505.578	-132.170	50.000
10300.000	8600.000	255.795	2.420	0.362	0.0	525.847	-182.439	50.000
10300.000	4800.000	50106.758	49850.960	0.0	0.0	79.610	293.798	50.000
12300.000	1980.000	257.264	0.0	6.660	0.0	84.913	0.0	2000.000
12300.000	3800.000	259.034	1.770	6.522	0.0	96.397	-11.485	2000.000
12300.000	4800.000	259.575	0.542	6.201	0.0	99.924	-15.012	2000.000

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TO	EG	TOPWID	STENCIL	STENC P	VCH
28100.00	1000.00	0.0	0.0	315.40	420.00	320.89	85.48	321.07	382.30	0.0	0.0	4.25
28100.00	1000.00	0.0	0.0	315.40	900.00	322.48	284.39	322.50	438.18	0.0	0.0	2.10
28100.00	1000.00	0.0	0.0	315.40	1200.00	323.07	416.97	323.00	444.44	0.0	0.0	2.04
28100.00	1000.00	0.0	0.0	315.40	2300.00	324.78	925.81	324.81	462.70	0.0	0.0	2.06
28100.00	1600.00	0.0	0.0	315.40	1200.00	50106.85	*****	50106.85	21.58	401.42	423.00	0.00
29500.00	1400.00	0.0	0.0	316.90	420.00	323.01	120.16	323.05	286.76	0.0	0.0	1.94
29500.00	1400.00	0.0	0.0	316.90	900.00	324.43	193.12	324.51	387.73	0.0	0.0	3.03
29500.00	1400.00	0.0	0.0	316.90	1200.00	324.82	253.39	324.91	473.91	0.0	0.0	3.25
29500.00	1400.00	0.0	0.0	316.90	2300.00	326.10	559.35	326.17	659.63	0.0	0.0	3.29
29500.00	1400.00	0.0	0.0	316.90	1200.00	50106.85	*****	50106.85	49.21	800.70	850.00	0.00
30375.00	875.00	0.0	0.0	323.90	420.00	328.05	10.75	329.26	20.27	0.0	0.0	8.81
30375.00	875.00	0.0	0.0	323.90	900.00	330.24	71.52	330.80	213.80	0.0	0.0	6.80
30375.00	875.00	0.0	0.0	323.90	1200.00	330.57	93.67	331.13	273.10	0.0	0.0	7.24
30375.00	875.00	0.0	0.0	323.90	2300.00	331.24	163.05	331.00	379.55	0.0	0.0	8.74
30375.00	875.00	0.0	0.0	323.90	1200.00	50106.85	*****	50106.85	30.00	390.00	420.00	0.00
30425.00	50.00	0.0	0.0	324.30	420.00	329.63	65.29	329.85	27.91	0.0	0.0	3.60
30425.00	50.00	0.0	0.0	324.30	900.00	330.96	85.45	331.47	41.00	0.0	0.0	5.72
30425.00	50.00	0.0	0.0	324.30	1200.00	331.22	94.68	332.01	41.00	0.0	0.0	7.15
30425.00	50.00	0.0	0.0	324.30	2300.00	332.56	207.87	333.16	546.47	0.0	0.0	7.27
30425.00	50.00	0.0	0.0	324.30	1200.00	50106.85	*****	50106.85	41.00	408.00	449.00	0.00
30450.00	25.00	0.0	0.0	324.30	420.00	329.65	65.58	329.86	27.93	0.0	0.0	3.68
30450.00	25.00	0.0	0.0	324.30	900.00	331.00	86.96	331.50	41.00	0.0	0.0	5.55
30450.00	25.00	0.0	0.0	324.30	1200.00	331.22	95.20	332.01	41.00	0.0	0.0	7.12
30450.00	25.00	0.0	0.0	324.30	2300.00	335.71	1376.77	335.72	994.84	0.0	0.0	1.42
30450.00	25.00	0.0	0.0	324.30	1200.00	50106.86	*****	50106.86	41.00	408.00	449.00	0.00
30500.00	50.00	0.0	0.0	323.90	420.00	329.88	53.69	330.11	166.18	0.0	0.0	4.07
30500.00	50.00	0.0	0.0	323.90	900.00	331.66	226.59	331.71	412.59	0.0	0.0	2.62
30500.00	50.00	0.0	0.0	323.90	1200.00	332.20	329.92	332.25	431.46	0.0	0.0	2.57
30500.00	50.00	0.0	0.0	323.90	2300.00	335.72	1494.84	335.73	565.94	0.0	0.0	1.53
30500.00	50.00	0.0	0.0	323.90	1200.00	50106.86	*****	50106.86	30.00	390.00	420.00	0.00
32500.00	2000.00	0.0	0.0	330.40	420.00	335.89	80.34	337.02	91.30	0.0	0.0	3.06
32500.00	2000.00	0.0	0.0	330.40	900.00	337.25	106.03	337.68	97.12	0.0	0.0	5.77
32500.00	2000.00	0.0	0.0	330.40	1200.00	337.52	119.00	338.13	101.20	0.0	0.0	7.05
32500.00	2000.00	0.0	0.0	330.40	2300.00	338.09	153.45	339.54	110.78	0.0	0.0	11.21
32500.00	2000.00	0.0	0.0	330.40	1200.00	50106.86	*****	50106.86	23.00	84.00	107.00	0.00

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH 0	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
680.000	2300.000	222.196	0.0	0.0	0.0	479.861	0.0	680.000
680.000	4400.000	223.657	1.461	0.0	0.0	466.194	-26.333	680.000
680.000	5700.000	224.343	0.686	0.0	0.0	480.585	-40.725	680.000
680.000	10200.000	226.308	1.965	0.0	0.0	521.817	-81.956	680.000
680.000	5700.000	50106.340	49880.030	0.0	0.0	106.382	333.479	680.000
730.000	2300.000	222.369	0.0	0.173	0.0	557.186	0.0	50.000
730.000	4400.000	223.860	1.491	0.203	0.0	728.980	-171.795	50.000
730.000	5700.000	224.567	0.707	0.224	0.0	775.600	-218.415	50.000
730.000	10200.000	226.577	2.010	0.269	0.0	910.471	-353.286	50.000
730.000	5700.000	50106.340	49879.760	0.0	0.0	81.002	476.184	50.000
750.000	2300.000	222.369	0.0	0.000	0.0	557.469	0.0	20.000
750.000	4400.000	223.911	1.541	0.051	0.0	733.003	-175.534	20.000
750.000	5700.000	224.654	0.743	0.086	0.0	784.415	-226.046	20.000
750.000	10200.000	226.726	2.072	0.148	0.0	917.499	-360.031	20.000
750.000	5700.000	50106.340	49879.610	0.0	0.0	81.002	476.467	20.000
800.000	2300.000	222.528	0.0	0.159	0.0	444.331	0.0	50.000

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TO	FG	TOPWID	STENCL	STENCR	VCH
20850.00	21.00	0.0	0.0	287.40	1700.00	295.43	184.18	296.15	38.24	0.0	0.0	5.80
20850.00	21.00	0.0	0.0	287.40	3450.00	298.34	317.19	299.74	40.31	0.0	0.0	9.48
20850.00	21.00	0.0	0.0	287.40	4200.00	298.48	324.64	300.42	40.42	0.0	0.0	11.35
20856.00	21.00	0.0	0.0	287.40	7600.00	301.73	715.79	307.22	359.70	0.0	0.0	11.10
20856.00	21.00	0.0	0.0	287.40	4200.00	50106.85*****	50106.85	41.00	179.00	220.00	0.0	0.0
20900.00	50.00	0.0	0.0	287.40	1700.00	295.16	490.04	296.33	146.45	0.0	0.0	3.76
20900.00	50.00	0.0	0.0	287.40	3450.00	298.80	1131.81	299.97	277.07	0.0	0.0	3.74
20900.00	50.00	0.0	0.0	287.40	4200.00	300.60	1340.45	300.70	305.14	0.0	0.0	4.05
20900.00	50.00	0.0	0.0	287.40	7600.00	303.23	2228.56	303.47	391.60	0.0	0.0	4.97
20900.00	50.00	0.0	0.0	287.40	4200.00	50106.85*****	50106.85	54.00	122.00	176.00	0.0	0.0
21000.00	1000.00	0.0	0.0	292.40	1700.00	298.14	86.26	300.20	74.35	0.0	0.0	11.77
21000.00	1000.00	0.0	0.0	292.40	3450.00	301.60	260.32	303.18	169.36	0.0	0.0	11.93
21000.00	1000.00	0.0	0.0	292.40	4200.00	302.20	325.98	303.78	204.51	0.0	0.0	11.10
21000.00	1000.00	0.0	0.0	292.40	7600.00	305.24	953.11	305.91	401.48	0.0	0.0	8.81
21000.00	1000.00	0.0	0.0	292.40	4200.00	50106.85*****	50106.85	38.00	322.00	360.00	0.0	0.0
25780.00	3800.00	0.0	0.0	308.00	1700.00	318.00	400.67	319.10	329.46	0.0	0.0	3.76
25780.00	3800.00	0.0	0.0	308.00	3450.00	321.57	760.77	322.70	465.96	0.0	0.0	4.55
25780.00	3800.00	0.0	0.0	308.00	4200.00	321.10	921.00	321.23	511.34	0.0	0.0	4.73
25780.00	3800.00	0.0	0.0	308.00	7600.00	322.31	1777.40	322.52	571.46	0.0	0.0	6.17
25780.00	3800.00	0.0	0.0	308.00	4200.00	50106.85*****	50106.85	122.57	493.86	616.43	0.0	0.0
25830.00	50.00	0.0	0.0	310.00	1700.00	318.04	277.38	319.30	52.00	0.0	0.0	4.83
25830.00	50.00	0.0	0.0	310.00	3450.00	320.24	380.10	321.10	254.89	0.0	0.0	7.70
25830.00	50.00	0.0	0.0	310.00	4200.00	320.71	439.07	321.67	307.14	0.0	0.0	8.76
25830.00	50.00	0.0	0.0	310.00	7600.00	321.94	603.50	323.17	545.62	0.0	0.0	10.86
25830.00	50.00	0.0	0.0	310.00	4200.00	50106.85*****	50106.85	52.00	602.00	654.00	0.0	0.0
25850.00	20.00	0.0	0.0	310.00	1700.00	318.04	277.56	319.30	52.00	0.0	0.0	4.82
25850.00	20.00	0.0	0.0	310.00	3450.00	321.32	390.37	321.14	264.23	0.0	0.0	7.54
25850.00	20.00	0.0	0.0	310.00	4200.00	320.72	441.75	321.67	320.31	0.0	0.0	8.32
25850.00	20.00	0.0	0.0	310.00	7600.00	322.33	738.20	323.17	550.98	0.0	0.0	9.94
25850.00	20.00	0.0	0.0	310.00	4200.00	50106.85*****	50106.85	52.00	602.00	654.00	0.0	0.0
25900.00	50.00	0.0	0.0	309.00	1700.00	319.31	292.47	319.50	270.01	0.0	0.0	4.80
25900.00	50.00	0.0	0.0	309.00	3450.00	321.26	678.02	321.42	442.27	0.0	0.0	4.00
25900.00	50.00	0.0	0.0	309.00	4200.00	321.81	833.38	321.97	487.12	0.0	0.0	5.14
25900.00	50.00	0.0	0.0	309.00	7600.00	323.31	1379.41	323.52	571.68	0.0	0.0	6.17
25900.00	50.00	0.0	0.0	309.00	4200.00	50106.85*****	50106.85	98.56	512.91	611.46	0.0	0.0
27100.00	1200.00	0.0	0.0	313.00	650.00	320.62	442.15	320.62	636.45	0.0	0.0	1.03
27100.00	1200.00	0.0	0.0	313.00	1250.00	322.26	1111.06	322.56	688.24	0.0	0.0	1.03
27100.00	1200.00	0.0	0.0	313.00	1700.00	322.82	1387.22	322.83	704.94	0.0	0.0	1.14
27100.00	1200.00	0.0	0.0	313.00	3250.00	324.52	2798.84	324.57	752.44	0.0	0.0	1.43
27100.00	1200.00	0.0	0.0	313.00	1700.00	50106.85*****	50106.85	305.57	414.14	719.71	0.0	0.0

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LCW CHORD	MIN EL OF GROUND	Specimen of Section (CFS)	W.S. profile	EG	TOPWID	STENCL	STENCR	VCH		
J	15570.00	2470.00	0.0	0.0	261.00	1700.00	270.60	271.39	271.09	96.00	0.0	0.0	5.97
	15570.00	2470.00	0.0	0.0	261.00	3450.00	272.67	452.07	273.54	119.48	0.0	0.0	8.43
	15570.00	2470.00	0.0	0.0	261.00	4200.00	273.16	504.29	274.24	125.00	0.0	0.0	9.49
	15570.00	2470.00	0.0	0.0	261.00	7600.00	275.19	764.67	275.64	148.12	0.0	0.0	12.70
	15570.00	2470.00	0.0	0.0	261.00	4200.00	50106.76*****	50106.76	30.00	55.00	85.00	0.00	0.00
	15620.00	50.00	0.0	0.0	261.90	1700.00	271.05	349.26	271.27	79.99	0.0	0.0	3.73
	15620.00	50.00	0.0	0.0	261.90	3450.00	273.36	593.33	273.80	82.00	0.0	0.0	5.35
	15620.00	50.00	0.0	0.0	261.90	4200.00	273.98	667.36	274.54	82.00	0.0	0.0	6.04
	15620.00	50.00	0.0	0.0	261.90	7600.00	276.24	957.00	277.39	82.00	0.0	0.0	8.63
	15620.00	50.00	0.0	0.0	261.90	4200.00	50106.76*****	50106.76	82.00	75.00	157.00	0.00	0.00
	15650.00	30.00	280.90	279.20	261.90	1700.00	271.06	349.57	271.27	80.00	0.0	0.0	3.72
	15650.00	30.00	280.90	279.20	261.90	3450.00	273.37	594.17	273.81	82.00	0.0	0.0	5.35
	15650.00	30.00	280.90	279.20	261.90	4200.00	273.99	668.44	274.56	82.00	0.0	0.0	6.04
	15650.00	30.00	280.90	279.20	261.90	7600.00	276.27	962.14	277.42	82.00	0.0	0.0	8.60
	15650.00	30.00	280.90	279.20	261.90	4200.00	272.06	447.29	50106.76	82.00	0.0	0.0	7.81
	15700.00	50.00	0.0	0.0	261.00	1700.00	271.06	305.25	271.46	101.18	0.0	0.0	5.50
	15700.00	50.00	0.0	0.0	261.00	3450.00	273.40	521.65	274.07	127.75	0.0	0.0	7.50
	15700.00	50.00	0.0	0.0	261.00	4200.00	274.05	610.37	274.84	135.17	0.0	0.0	8.26
	15700.00	50.00	0.0	0.0	261.00	7600.00	276.58	882.46	277.73	153.85	0.0	0.0	11.58
	15700.00	50.00	0.0	0.0	261.00	4200.00	50106.85*****	50106.85	70.00	55.00	85.00	0.00	0.00
	17000.00	2000.00	0.0	0.0	271.40	1700.00	279.57	211.53	280.19	103.30	0.0	0.0	5.50
	17000.00	2000.00	0.0	0.0	271.40	3450.00	282.09	529.00	282.55	344.44	0.0	0.0	6.66
	17000.00	2000.00	0.0	0.0	271.40	4200.00	282.83	689.08	283.23	357.81	0.0	0.0	6.55
	17000.00	2000.00	0.0	0.0	271.40	7600.00	285.32	1445.52	285.65	406.84	0.0	0.0	8.57
	17000.00	2000.00	0.0	0.0	271.40	4200.00	50106.85*****	50106.85	36.00	264.00	300.00	0.00	0.00
	18900.00	1200.00	0.0	0.0	275.70	1700.00	285.64	223.14	287.53	66.86	0.0	0.0	6.15
	18900.00	1200.00	0.0	0.0	275.70	3450.00	288.69	376.40	289.68	176.19	0.0	0.0	8.59
	18900.00	1200.00	0.0	0.0	275.70	4200.00	289.10	425.90	290.28	182.60	0.0	0.0	9.53
	18900.00	1200.00	0.0	0.0	275.70	7600.00	290.61	646.74	292.43	206.07	0.0	0.0	12.59
	18900.00	1200.00	0.0	0.0	275.70	4200.00	50106.85*****	50106.85	40.00	480.00	520.00	0.00	0.00
	20779.00	1879.00	0.0	0.0	287.30	1700.00	295.43	290.70	295.78	120.55	0.0	0.0	4.79
	20779.00	1879.00	0.0	0.0	287.30	3450.00	298.13	632.06	298.54	229.05	0.0	0.0	5.66
	20779.00	1879.00	0.0	0.0	287.30	4200.00	298.96	786.50	299.37	253.27	0.0	0.0	5.86
	20779.00	1879.00	0.0	0.0	287.30	7600.00	301.64	1489.75	302.08	345.35	0.0	0.0	5.58
	20779.00	1879.00	0.0	0.0	287.30	4200.00	50106.85*****	50106.85	54.00	122.00	176.00	0.00	0.00
	20829.00	50.00	0.0	0.0	287.40	1700.00	295.43	184.20	296.15	38.24	0.0	0.0	6.80
	20829.00	50.00	0.0	0.0	287.40	3450.00	297.53	277.75	299.21	39.73	0.0	0.0	10.40
	20829.00	50.00	0.0	0.0	287.40	4200.00	297.98	299.81	299.22	40.06	0.0	0.0	12.00
	20829.00	50.00	0.0	0.0	287.40	7600.00	301.64	694.94	303.22	355.90	0.0	0.0	11.47
	20829.00	50.00	0.0	0.0	287.40	4200.00	50106.85*****	50106.85	41.00	179.00	220.00	0.00	0.00

SECTION NUMBER	CHANNEL LENGTH	MIN FL OF ROADWAY	MAX FL OF LOW CHORD	MIN FL OF GROUND	DISCHARGE (CFS)	CWSFL	TO	EG	TOPWID	STENCL	STENCR	VCH
5000.00	50.00	0.0	0.0	221.90	2300.00	231.58	766.73	231.62	984.62	0.0	0.0	2.46
5000.00	50.00	0.0	0.0	221.90	4400.00	234.28	2577.17	234.30	1064.47	0.0	0.0	1.79
5000.00	50.00	0.0	0.0	221.90	5700.00	235.01	4144.51	235.02	1103.22	0.0	0.0	1.50
5000.00	50.00	0.0	0.0	221.90	10200.00	240.60	10461.71	240.61	1171.06	0.0	0.0	1.45
5000.00	50.00	0.0	0.0	221.90	5700.00	50106.40	*****	50106.40	447.42	445.58	903.00	0.00
8348.00												
7500.00	2500.00	0.0	0.0	230.50	1500.00	236.33	119.23	237.03	47.64	0.0	0.0	10.15
7500.00	2500.00	0.0	0.0	230.50	3800.00	238.71	273.84	240.37	166.16	0.0	0.0	17.87
7500.00	2500.00	0.0	0.0	230.50	4800.00	239.33	343.00	241.15	173.58	0.0	0.0	11.70
7500.00	2500.00	0.0	0.0	230.50	8600.00	241.21	620.05	243.42	195.22	0.0	0.0	13.60
7500.00	2500.00	0.0	0.0	230.50	4800.00	50106.40	*****	50106.40	52.00	186.00	238.00	0.00
11608.00												
10181.00	2681.00	0.0	0.0	240.30	1980.00	250.02	471.00	250.10	276.32	0.0	0.0	7.83
10181.00	2681.00	0.0	0.0	240.30	3800.00	251.03	880.73	252.13	322.58	0.0	0.0	4.56
10181.00	2681.00	0.0	0.0	240.30	4800.00	252.79	1111.10	257.00	343.00	0.0	0.0	4.83
10181.00	2681.00	0.0	0.0	240.30	8600.00	255.21	1966.78	255.47	412.14	0.0	0.0	5.51
10181.00	2681.00	0.0	0.0	240.30	4800.00	50106.40	*****	50106.40	83.92	347.08	431.00	0.00
10231.00												
10231.00	50.00	0.0	0.0	240.10	1980.00	249.07	290.70	250.40	103.24	0.0	0.0	5.36
10231.00	50.00	0.0	0.0	240.10	3800.00	251.86	538.70	252.17	280.77	0.0	0.0	4.41
10231.00	50.00	0.0	0.0	240.10	4800.00	252.74	710.37	257.22	310.20	0.0	0.0	6.54
10231.00	50.00	0.0	0.0	240.10	8600.00	255.21	1397.12	255.65	415.53	0.0	0.0	6.02
10231.00	50.00	0.0	0.0	240.10	4800.00	50106.40	*****	50106.40	51.00	366.00	417.00	0.00
10250.00												
10250.00	19.00	0.0	0.0	240.10	1980.00	250.24	294.19	250.68	51.00	0.0	0.0	5.32
10250.00	19.00	0.0	0.0	240.10	3800.00	252.12	585.09	252.55	292.19	0.0	0.0	6.01
10250.00	19.00	0.0	0.0	240.10	4800.00	252.98	763.56	253.40	329.83	0.0	0.0	6.19
10250.00	19.00	0.0	0.0	240.10	8600.00	255.43	1478.21	255.84	421.23	0.0	0.0	6.62
10250.00	19.00	0.0	0.0	240.10	4800.00	50106.75	*****	50106.75	51.00	366.00	417.00	0.00
11727.00												
10300.00	50.00	0.0	0.0	240.40	1980.00	250.60	398.73	250.86	373.41	0.0	0.0	4.80
10300.00	50.00	0.0	0.0	240.40	3800.00	252.51	841.98	252.71	463.53	0.0	0.0	4.90
10300.00	50.00	0.0	0.0	240.40	4800.00	253.37	1127.00	253.56	505.58	0.0	0.0	4.96
10300.00	50.00	0.0	0.0	240.40	8600.00	255.79	2195.13	255.97	525.85	0.0	0.0	5.19
10300.00	50.00	0.0	0.0	240.40	4800.00	50106.76	*****	50106.76	79.61	397.39	477.00	0.00
11727.00												
12300.00	2000.00	0.0	0.0	247.50	1980.00	257.26	275.00	257.95	84.91	0.0	0.0	6.49
12300.00	2000.00	0.0	0.0	247.50	3800.00	259.23	427.88	260.15	96.40	0.0	0.0	9.25
12300.00	2000.00	0.0	0.0	247.50	4800.00	259.58	482.48	261.06	99.02	0.0	0.0	10.78
12300.00	2000.00	0.0	0.0	247.50	8600.00	261.10	656.43	264.09	109.85	0.0	0.0	15.55
12300.00	2000.00	0.0	0.0	247.50	4800.00	50106.76	*****	50106.76	36.00	108.00	144.00	0.00
15627.00												
13100.00	800.00	0.0	0.0	251.20	1700.00	261.12	274.23	261.46	238.05	0.0	0.0	5.12
13100.00	800.00	0.0	0.0	251.20	3450.00	263.53	657.23	263.81	276.00	0.0	0.0	5.32
13100.00	800.00	0.0	0.0	251.20	4200.00	264.49	869.38	264.74	290.89	0.0	0.0	5.23
13100.00	800.00	0.0	0.0	251.20	7600.00	267.59	1803.20	267.83	338.43	0.0	0.0	5.45
13100.00	800.00	0.0	0.0	251.20	4200.00	50106.76	*****	50106.76	40.00	276.00	316.00	0.00

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOOD

stream bed
W.S. profiles

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CHFL	CG	TOPWID	STENCI	STENC2	VCH		
A	845.00	680.00	0.0	0.0	212.70	2300.00	222.20	420.74	222.41	479.86	0.0	0.0	4.58
	680.00	680.00	0.0	0.0	212.70	4400.00	223.66	805.79	223.88	466.10	0.0	0.0	5.19
	680.00	680.00	0.0	0.0	212.70	5700.00	224.34	1035.57	224.58	480.59	0.0	0.0	5.51
	680.00	680.00	0.0	0.0	212.70	10200.00	226.31	1858.42	226.59	521.82	0.0	0.0	6.25
	680.00	680.00	0.0	0.0	212.70	5700.00	50106.34	*****	50106.34	106.38	373.62	480.00	0.00
	730.00	50.00	0.0	0.0	212.30	2300.00	222.37	434.43	222.56	557.19	0.0	0.0	3.01
	730.00	50.00	0.0	0.0	212.30	4400.00	223.66	922.52	224.02	728.98	0.0	0.0	4.11
	730.00	50.00	0.0	0.0	212.30	5700.00	224.57	1218.31	224.72	775.60	0.0	0.0	4.17
	730.00	50.00	0.0	0.0	212.30	10200.00	226.58	2454.13	226.72	910.47	0.0	0.0	4.31
	730.00	50.00	0.0	0.0	212.30	5700.00	50106.74	*****	50106.34	81.00	860.00	941.00	0.00
	750.00	20.00	0.0	0.0	212.30	2300.00	222.37	434.03	222.56	557.47	0.0	0.0	2.90
	750.00	20.00	0.0	0.0	212.30	4400.00	223.01	923.54	224.06	737.00	0.0	0.0	4.43
	750.00	20.00	0.0	0.0	212.30	5700.00	224.65	1261.63	224.79	784.42	0.0	0.0	4.25
	750.00	20.00	0.0	0.0	212.30	10200.00	226.73	2564.41	226.86	917.50	0.0	0.0	4.16
	750.00	20.00	0.0	0.0	212.30	5700.00	50106.34	*****	50106.34	81.00	860.00	941.00	0.00
	800.00	50.00	0.0	0.0	212.70	2300.00	222.53	492.45	222.68	444.33	0.0	0.0	4.07
	800.00	50.00	0.0	0.0	212.70	4400.00	224.01	922.09	224.18	473.78	0.0	0.0	4.66
	800.00	50.00	0.0	0.0	212.70	5700.00	224.73	1178.14	224.92	488.68	0.0	0.0	4.98
	800.00	50.00	0.0	0.0	212.70	10200.00	226.75	2074.87	226.98	531.04	0.0	0.0	5.76
	800.00	50.00	0.0	0.0	212.70	5700.00	50106.34	*****	50106.34	143.45	336.55	480.00	0.00
B	2925.00	1800.00	0.0	0.0	217.70	2300.00	225.62	639.81	225.67	482.59	0.0	0.0	2.75
	2600.00	1800.00	0.0	0.0	217.70	4400.00	227.20	1204.33	227.27	494.38	0.0	0.0	3.24
	2600.00	1800.00	0.0	0.0	217.70	5700.00	228.00	1545.84	228.08	500.31	0.0	0.0	3.49
	2600.00	1800.00	0.0	0.0	217.70	10200.00	230.19	2673.64	230.32	516.69	0.0	0.0	4.18
	2600.00	1800.00	0.0	0.0	217.70	5700.00	50106.34	*****	50106.34	296.50	234.50	531.00	0.00
C	5615.00	2277.00	0.0	0.0	220.30	2300.00	230.27	347.44	230.73	188.05	0.0	0.0	5.57
	4877.00	2277.00	0.0	0.0	220.30	4400.00	232.05	642.40	232.58	421.05	0.0	0.0	6.54
	4877.00	2277.00	0.0	0.0	220.30	5700.00	232.83	854.46	233.35	432.56	0.0	0.0	6.87
	4877.00	2277.00	0.0	0.0	220.30	10200.00	235.02	1642.89	235.51	464.63	0.0	0.0	7.40
	4877.00	2277.00	0.0	0.0	220.30	5700.00	50106.34	*****	50106.34	62.00	193.00	255.00	0.00
	4927.00	50.00	0.0	0.0	222.70	2300.00	230.23	172.64	231.31	59.64	0.0	0.0	8.33
	4927.00	50.00	0.0	0.0	222.70	4400.00	231.08	224.82	231.80	59.64	0.0	0.0	13.46
	4927.00	50.00	0.0	0.0	222.70	5700.00	232.12	294.60	235.46	59.64	0.0	0.0	14.66
	4927.00	50.00	0.0	0.0	222.70	10200.00	235.26	535.02	240.13	59.64	0.0	0.0	17.72
	4927.00	50.00	0.0	0.0	222.70	5700.00	50106.34	*****	50106.34	59.64	721.36	781.00	0.00
	4950.00	23.00	0.0	0.0	222.70	2300.00	231.79	181.55	231.40	59.64	0.0	0.0	8.07
	4950.00	23.00	0.0	0.0	222.70	4400.00	231.91	279.84	234.04	59.64	0.0	0.0	11.70
	4950.00	23.00	0.0	0.0	222.70	5700.00	233.15	369.18	235.64	59.64	0.0	0.0	12.56
	4950.00	23.00	0.0	0.0	222.70	10200.00	235.53	559.54	245.13	59.64	0.0	0.0	17.22
	4950.00	23.00	0.0	0.0	222.70	5700.00	50106.40	*****	50106.40	59.64	721.36	781.00	0.00