

Dutchmans Creek

3 Dec

Plot

stere, there is no hurry on this plot, so put a low priority on it.

 HEC2 VERSION UPDATED JAN 1976
 ERROR CORRECTION 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 52,53,54,55,56,57,58

CONFIRM - OF D-1 @ 60+90

(RETURN TO KEN)

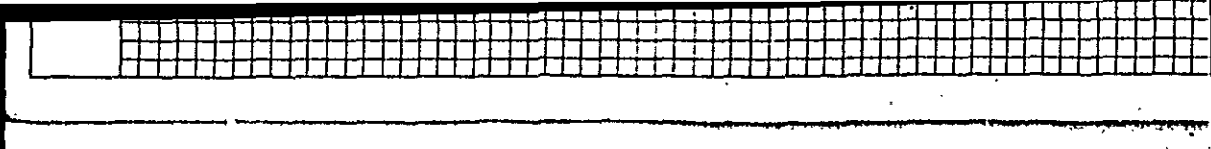
T1 ELKTN NORTH CAROLINA
 T2 FLOOD INSURANCE STUDY
 T3 DUTCHMANS CREEK 10 YR W

PROFILE PLOTTED
 17 DEC. 1976
 S. P. FLETCHER

J1	ICHECK	INW	MINV	IOIP	STRT	METRIC	HVINS	Q	WSEL	FD
	0.	2.	0.	0.	0.	0.	0.	0.	887.200	0.
J2	NPROF	IPLT	PREVS	XSECV	XSECH	FN	ALLDC	TBW	CHVIN	ITRACE
	1,000	0.	-1,000	0.	0.	0.	0.	0.	0.	0.
J3	1,000	34,000	8,000	4,000	27,000	28,000	26,000	0.	0.	0.
NC	0,060	0,060	0,100	0,300	0,500	0.	0.	0.	0.	0.
WT	5,000	710,000	1220,000	1460,000	1460,000	2170,000	0.	0.	0.	0.
ET	0.	0.	0.	0.	0.	10,400	0.	0.	0.	0.
X1	9,500	50,000	302,000	432,000	0.	0.	0.	0.	0.	0.
BT	2,000	302,000	891,500	888,900	432,000	891,500	888,600	0.	0.	0.
GR	910,000	0.	905,000	25,000	900,000	50,000	892,000	165,000	891,500	302,000
GR	885,500	302,000	880,000	314,000	888,800	314,000	888,800	315,000	880,000	315,000
GR	878,400	328,000	888,800	328,000	888,800	329,000	878,400	329,000	877,300	340,000
GR	888,800	340,000	888,800	341,000	877,300	341,000	877,000	353,000	888,700	353,000
GR	888,700	354,000	877,000	354,000	874,400	368,000	888,700	368,000	888,700	369,000
GR	874,400	369,000	874,000	374,000	874,800	382,000	888,700	382,000	888,700	383,000
GR	874,800	363,000	877,500	394,000	888,600	394,000	888,600	395,000	877,500	395,000
GR	876,500	408,000	888,600	408,000	888,600	409,000	878,500	409,000	882,500	420,000
GR	888,600	420,000	888,600	421,000	882,500	421,000	886,000	431,000	891,500	432,000
GR	891,500	490,000	895,000	550,000	900,000	560,000	905,000	565,000	910,000	590,000
X1	9,700	0.	0.	0.	20,000	20,000	20,000	0.	0.	0.
X1	10,000	38,000	316,000	395,000	30,000	30,000	30,000	0.	0.	0.
BT	6,000	297,000	888,900	0.	316,000	889,100	886,100	345,000	889,400	886,700
BT	346,000	889,400	885,600	395,000	889,300	885,500	410,000	889,100	0.	0.
GR	910,000	25,000	905,000	55,000	900,000	70,000	895,000	85,000	890,300	150,000
GR	889,000	200,000	888,500	250,000	888,900	297,000	888,500	297,000	887,500	300,000
GR	881,200	316,000	878,300	327,000	879,000	330,000	886,400	330,000	886,400	331,000
GR	879,000	331,000	882,600	336,000	880,800	345,000	885,600	345,000	885,600	346,000
GR	880,800	346,000	879,000	350,000	874,200	355,000	874,000	360,000	874,200	365,000
GR	876,200	370,000	885,500	370,000	885,500	371,000	878,200	371,000	882,200	395,000
GR	884,000	398,000	884,400	410,000	889,100	410,000	889,100	450,000	889,600	475,000
GR	895,000	495,000	900,000	500,000	910,000	520,000	0.	0.	0.	0.
X1	10,300	0.	0.	0.	30,000	30,000	30,000	0.	0.	0.
X1	10,800	27,000	261,000	282,000	50,000	50,000	50,000	0.	0.	0.
GR	899,200	0.	895,700	20,000	894,800	23,000	895,400	26,000	895,400	37,000
GR	894,100	49,000	893,800	50,000	885,800	64,000	885,700	76,000	882,400	84,000
GR	880,900	100,000	879,900	150,000	879,200	200,000	879,300	250,000	879,900	261,000
GR	875,200	264,000	875,100	270,000	875,200	275,000	878,000	282,000	882,400	296,000
GR	882,700	300,000	883,300	314,000	893,600	338,000	892,800	350,000	892,300	368,000
GR	897,400	375,000	915,000	400,000	0.	0.	0.	0.	0.	0.

X1	13,000	0.	0.	0.	220,000	220,000	220,000	220,000	0.	0.	0.	0.
NC	0.100	0.100	0.100	0.300	0.500	0.	0.	0.	0.	0.	0.	0.
X1	17,000	21,000	384,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	0.
GR	915,000	0.	897,900	100,000	107,000	896,100	883,500	150,000	150,000	883,500	882,600	300,000
GR	887,600	131,000	885,200	150,000	200,000	883,500	883,500	200,000	200,000	883,500	882,600	300,000
GR	882,500	450,000	882,800	384,000	387,000	878,500	878,500	387,000	387,000	878,500	878,500	395,000
GR	883,100	400,000	881,800	400,000	450,000	883,300	883,300	450,000	450,000	883,300	888,800	490,000
GR	915,000	540,000	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
X1	19,500	15,000	113,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	0.
GR	915,000	0.	906,700	50,000	906,400	896,400	896,400	50,000	50,000	896,400	884,500	113,000
GR	861,600	118,000	860,800	123,000	861,600	861,600	861,600	123,000	123,000	861,600	882,900	150,000
GR	884,600	159,000	886,100	200,000	890,400	890,400	890,400	200,000	200,000	890,400	900,200	350,000
X1	24,000	0.	0.	450,000	450,000	450,000	450,000	450,000	450,000	450,000	450,000	0.
GR	897,600	246,000	896,000	247,000	896,400	896,400	896,400	247,000	247,000	896,400	894,200	238,000
GR	897,400	200,000	897,000	220,000	894,200	894,200	894,200	220,000	220,000	894,200	894,200	238,000
GR	914,200	0.	904,500	50,000	898,400	898,400	898,400	50,000	50,000	898,400	897,500	150,000
X1	31,500	15,000	220,000	247,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	0.
GR	897,200	0.	894,500	50,000	898,400	898,400	898,400	50,000	50,000	898,400	897,500	150,000
GR	897,400	200,000	897,000	220,000	894,200	894,200	894,200	220,000	220,000	894,200	894,200	238,000
GR	914,200	0.	904,500	50,000	898,400	898,400	898,400	50,000	50,000	898,400	897,500	150,000
X1	34,500	13,000	96,000	112,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	0.
GR	925,900	0.	914,100	50,000	901,200	890,000	890,000	50,000	50,000	901,200	898,100	96,000
GR	897,600	102,000	898,200	108,000	900,500	900,500	900,500	108,000	108,000	900,500	904,000	169,000
GR	911,600	200,000	914,100	208,000	925,000	925,000	925,000	208,000	208,000	925,000	904,000	169,000
X1	37,000	0.	0.	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	0.
GR	911,700	200,000	922,800	240,000	904,100	904,100	904,100	240,000	240,000	904,100	907,600	150,000
GR	904,100	104,000	903,600	111,000	904,100	904,100	904,100	111,000	111,000	904,100	905,800	117,000
GR	934,100	0.	915,700	50,000	907,900	907,900	907,900	50,000	50,000	907,900	904,500	103,000
X1	39,000	12,000	100,000	117,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	0.
GR	904,100	104,000	903,600	111,000	904,100	904,100	904,100	111,000	111,000	904,100	907,600	150,000
GR	934,100	0.	915,700	50,000	907,900	907,900	907,900	50,000	50,000	907,900	904,500	103,000
X1	51,000	11,000	103,000	126,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	0.
GR	938,100	0.	923,800	27,000	920,600	920,600	920,600	27,000	27,000	920,600	919,700	103,000
GR	917,100	105,000	916,600	109,000	917,100	917,100	917,100	109,000	109,000	917,100	924,500	150,000
GR	939,700	193,000	939,700	0.	0.	0.	0.	0.	0.	0.	0.	0.
GR	939,700	193,000	939,700	0.	0.	0.	0.	0.	0.	0.	0.	0.
X1	61,000	0.	0.	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	0.
GR	930,200	361,000	927,200	390,000	924,900	924,900	924,900	390,000	390,000	924,900	927,200	350,000
GR	924,900	314,000	924,500	320,000	924,900	924,900	924,900	320,000	320,000	924,900	926,900	312,000
GR	950,000	0.	927,800	200,000	927,400	927,400	927,400	200,000	200,000	927,400	927,400	312,000
X1	57,000	12,000	312,000	330,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	0.
GR	950,000	0.	927,800	200,000	927,400	927,400	927,400	200,000	200,000	927,400	927,400	312,000
GR	924,900	314,000	924,500	320,000	924,900	924,900	924,900	320,000	320,000	924,900	926,900	312,000
GR	930,200	361,000	927,200	390,000	924,900	924,900	924,900	390,000	390,000	924,900	927,200	350,000
X1	64,000	12,000	235,000	257,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	0.
GR	952,000	0.	942,500	50,000	937,200	937,200	937,200	50,000	50,000	937,200	935,900	150,000
GR	935,000	260,000	935,400	235,000	933,000	933,000	933,000	235,000	235,000	933,000	932,900	247,000
GR	944,400	257,000	944,900	280,000	932,900	932,900	932,900	280,000	280,000	932,900	935,900	247,000
X1	69,500	14,000	140,000	174,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	0.
GR	960,700	0.	945,500	50,000	943,400	943,400	943,400	50,000	50,000	943,400	944,600	174,000
GR	944,400	257,000	944,900	280,000	932,900	932,900	932,900	280,000	280,000	932,900	935,900	247,000
GR	945,000	225,000	945,100	250,000	944,900	944,900	944,900	250,000	250,000	944,900	944,300	340,000
GR	945,000	225,000	945,100	250,000	944,900	944,900	944,900	250,000	250,000	944,900	944,300	340,000
GR	941,700	161,000	941,200	166,000	941,800	941,800	941,800	166,000	166,000	941,800	944,300	340,000
GR	945,000	225,000	945,100	250,000	944,900	944,900	944,900	250,000	250,000	944,900	944,300	340,000

X1	73,000	12,000	106,000	121,000	350,000	350,000	350,000	0.	0.	0.
GR	965,100	0.	958,700	50,000	953,300	92,000	950,000	100,000	949,400	106,000
GR	947,500	108,000	947,200	112,000	947,500	116,000	950,100	121,000	952,200	150,000
GR	953,900	164,000	967,400	200,000	0.	0.	0.	0.	0.	0.
X1	75,000	0.	0.	0.	200,000	200,000	200,000	0.	7,200	0.
X1	77,000	0.	0.	0.	200,000	200,000	200,000	0.	7,200	0.
X1	79,000	0.	0.	0.	200,000	200,000	200,000	0.	7,200	0.
X1	81,000	10,000	54,000	70,000	200,000	200,000	200,000	0.	0.	0.
GR	993,900	0.	979,100	22,000	978,300	50,000	977,600	54,000	976,200	57,000
GR	975,900	60,000	976,200	64,000	980,200	70,000	979,400	98,000	994,100	140,000
X1	85,000	0.	0.	0.	400,000	400,000	400,000	0.	3,600	0.
X1	90,000	15,000	105,000	122,000	600,000	600,000	600,000	0.	0.	0.
GR	1007,200	0.	999,000	50,000	997,800	58,000	989,900	78,000	989,000	100,000
GR	988,400	105,000	986,200	109,000	986,000	113,000	986,200	119,000	989,500	122,000
GR	988,600	150,000	988,900	200,000	993,500	250,000	996,000	266,000	1005,700	300,000
X1	95,000	14,000	170,000	185,000	500,000	500,000	500,000	0.	0.	0.
GR	1004,200	0.	997,400	50,000	993,600	88,000	993,200	100,000	993,900	150,000
GR	992,900	170,000	991,100	174,000	990,800	176,000	990,600	179,000	990,800	183,000
GR	993,800	185,000	993,300	200,000	995,700	250,000	1009,100	293,000	0.	0.
QT	5,000	440,000	770,000	900,000	900,000	1340,000	0.	0.	0.	0.
X1	98,000	14,000	144,000	163,000	300,000	300,000	300,000	0.	0.	0.
GR	1016,200	0.	1012,400	50,000	1006,000	100,000	1001,500	144,000	995,800	150,000
GR	995,500	152,000	995,800	155,000	999,300	163,000	999,300	200,000	999,800	250,000
GR	1003,400	300,000	1010,000	350,000	1014,300	384,000	1014,700	400,000	0.	0.
X1	101,000	0.	0.	0.	300,000	300,000	300,000	0.	5,100	0.
QT	5,000	340,000	610,000	760,000	760,000	1100,000	0.	0.	0.	0.
X1	105,000	15,000	229,000	241,000	400,000	400,000	400,000	0.	0.	0.
GR	1031,200	0.	1028,300	50,000	1024,100	100,000	1017,700	150,000	1013,700	200,000
GR	1012,700	229,000	1007,500	235,000	1007,400	238,000	1007,500	240,000	1009,100	241,000
GR	1011,700	250,000	1011,400	300,000	1014,300	339,000	1019,100	350,000	1031,000	375,000
X1	107,500	0.	0.	0.	250,000	250,000	250,000	0.	4,300	0.
X1	110,200	12,000	168,000	190,000	270,000	270,000	270,000	0.	0.	0.
GR	1032,800	0.	1029,200	14,000	1026,400	50,000	1021,500	100,000	1019,200	150,000
GR	1019,700	168,000	1016,400	172,000	1016,200	173,000	1016,400	175,000	1021,400	190,000
GR	1025,900	200,000	1038,200	230,000	0.	0.	0.	0.	0.	0.
X1	110,500	0.	0.	0.	30,000	30,000	30,000	0.	0.	0.
X3	10,000	0.	0.	0.	0.	0.	0.	1026,000	1026,000	0.
NC	0,050	0,100	0,050	0,300	0,500	0.	0.	0.	0.	0.
SB	0.	1,500	2,500	50,000	2,000	0.	3,140	0.	1016,500	1015,800
X1	111,000	15,000	106,000	112,000	50,000	50,000	50,000	0.	-1,400	0.
X2	0.	0.	1,000	1020,500	1025,500	0.	0.	0.	0.	0.
X3	10,000	0.	0.	0.	0.	0.	0.	1026,000	1026,000	0.
GR	1041,600	0.	1031,300	32,000	1029,400	50,000	1023,600	100,000	1021,500	106,000
GR	1020,000	107,000	1019,700	109,000	1020,000	111,000	1021,800	112,000	1023,100	150,000
GR	1026,100	200,000	1029,800	250,000	1033,300	300,000	1037,600	350,000	1041,100	400,000
X1	111,400	0.	0.	0.	40,000	40,000	40,000	0.	1,400	0.
X1	114,000	12,000	64,000	74,000	260,000	260,000	260,000	0.	-5,500	0.
X3	10,000	0.	0.	0.	0.	0.	0.	1055,000	1055,000	0.
GR	1056,200	0.	1037,100	50,000	1034,800	61,000	1033,600	62,000	1033,200	64,000
GR	1031,100	65,000	1031,000	68,000	1031,200	71,000	1033,000	74,000	1034,100	100,000



HEC2 VERSION UPDATED JAN 1976
ERROR CORRECTION 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58

T1 ELKIN NORTH CAROLINA
T2 FLOOD INSURANCE STUDY
T3 DUTCHMANS CREEK 50 YR Q

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	3.	0.	0.	0.	0.	0.	0.	892,600	0.

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FM	ALLDC	IBW	CHNIP	ITRACE
	2.000	0.	-1.000	0.	0.	0.	0.	0.	0.	0.

 HEC2 VERSION UPDATED JAN 1976
 ERROR CORRECTION 01,02,03,04,05,06,07,08,09
 MODIFICATIONS 52,53,54,55,56,57,58

T1 ELKIN NORTH CAROLINA
 T2 FLOOD INSURANCE STUDY
 T3 DUTCHMANS CREEK 100 YR Q

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	4.	0.	0.	0.	0.	0.	0.	895.500	0.
J2	NPROF	IPLDT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.	-1.000	0.	0.	0.	0.	0.	0.	0.

NOTE: ELEVATIONS AT 0+00 TAKEN FROM YADKIN RIVER PROFILE; 862.8 887.2 892.6 895.5

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

899.2
500 YR.

DUTCHMANS CREEP 500 YR 0

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	DEPTH	TOPWID	STENCL	STENCR	VCH
9.50	0.	891.50	888.90	874.00	710.00	887.20	365.88	13.20	120.22	0.	0.	0.67
9.50	0.	891.50	888.90	874.00	1220.00	892.60	404.91	18.60	352.48	0.	0.	0.78
9.50	0.	891.50	888.90	874.00	1460.00	895.50	1078.94	21.50	436.31	0.	0.	0.41
9.50	0.	891.50	888.90	874.00	2170.00	899.20	2713.34	25.20	496.90	0.	0.	0.29
9.70	20.00	0.	0.	874.00	710.00	887.21	366.28	13.21	120.22	0.	0.	0.67
9.70	20.00	0.	0.	874.00	1220.00	892.61	816.71	18.61	353.05	0.	0.	0.66
9.70	20.00	0.	0.	874.00	1460.00	895.51	1608.13	21.51	436.37	0.	0.	0.46
9.70	20.00	0.	0.	874.00	2170.00	899.20	3406.69	25.20	496.92	0.	0.	0.37
10.00	30.00	888.90	886.70	874.00	710.00	887.22	159.13	13.22	109.29	0.	0.	1.25
10.00	30.00	888.90	886.70	874.00	1220.00	892.62	699.87	18.62	368.38	0.	0.	0.51
10.00	30.00	888.90	886.70	874.00	1460.00	895.51	1660.12	21.51	412.03	0.	0.	0.31
10.00	30.00	888.90	886.70	874.00	2170.00	899.20	3525.73	25.20	426.81	0.	0.	0.25
10.30	30.00	0.	0.	874.00	710.00	887.26	326.38	13.26	109.38	0.	0.	0.96
10.30	30.00	0.	0.	874.00	1220.00	892.63	1357.98	18.63	368.52	0.	0.	0.56
10.30	30.00	0.	0.	874.00	1460.00	895.51	2613.21	21.51	412.04	0.	0.	0.40
10.30	30.00	0.	0.	874.00	2170.00	899.21	4931.14	25.21	426.82	0.	0.	0.36
10.80	50.00	0.	0.	875.10	710.00	887.28	1560.63	12.18	261.85	0.	0.	0.31
10.80	50.00	0.	0.	875.10	1220.00	892.63	4712.05	17.53	296.38	0.	0.	0.27
10.80	50.00	0.	0.	875.10	1460.00	895.51	5795.02	20.41	351.79	0.	0.	0.25
10.80	50.00	0.	0.	875.10	2170.00	899.21	8655.93	24.11	377.56	0.	0.	0.28
13.00	220.00	0.	0.	876.30	710.00	887.28	1159.02	10.98	256.98	0.	0.	0.39
13.00	220.00	0.	0.	876.30	1220.00	892.64	3376.64	16.34	278.84	0.	0.	0.30
13.00	220.00	0.	0.	876.30	1460.00	895.51	5006.27	19.21	323.77	0.	0.	0.27
13.00	220.00	0.	0.	876.30	2170.00	899.21	7659.40	22.91	359.05	0.	0.	0.30
17.00	400.00	0.	0.	878.30	710.00	887.31	546.94	9.01	332.28	0.	0.	0.65
17.00	400.00	0.	0.	878.30	1220.00	892.64	2111.09	14.34	358.74	0.	0.	0.41
17.00	400.00	0.	0.	878.30	1460.00	895.52	3304.43	17.22	375.16	0.	0.	0.36
17.00	400.00	0.	0.	878.30	2170.00	899.22	5181.79	20.92	398.94	0.	0.	0.39
19.50	250.00	0.	0.	880.80	710.00	887.39	98.61	6.59	119.28	0.	0.	2.88
19.50	250.00	0.	0.	880.80	1220.00	892.66	601.63	11.86	177.03	0.	0.	1.27
19.50	250.00	0.	0.	880.80	1460.00	895.53	1073.88	14.73	197.83	0.	0.	1.00
19.50	250.00	0.	0.	880.80	2170.00	899.22	1882.21	18.42	224.57	0.	0.	0.99
24.00	450.00	0.	0.	885.80	710.00	891.33	51.70	5.53	104.75	0.	0.	4.76
24.00	450.00	0.	0.	885.80	1220.00	893.08	138.27	7.28	128.76	0.	0.	3.92
24.00	450.00	0.	0.	885.80	1460.00	895.69	357.11	9.89	162.83	0.	0.	2.24
24.00	450.00	0.	0.	885.80	2170.00	899.32	859.60	13.52	189.12	0.	0.	1.74
31.50	750.00	0.	0.	894.20	710.00	899.01	90.39	4.81	181.71	0.	0.	3.00
31.50	750.00	0.	0.	894.20	1220.00	899.51	125.26	5.31	184.50	0.	0.	3.98
31.50	750.00	0.	0.	894.20	1460.00	898.84	79.54	4.64	180.73	0.	0.	6.83
31.50	750.00	0.	0.	894.20	2170.00	900.46	210.42	6.26	180.01	0.	0.	4.74

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TD	DEPTH	TOPWID	STENCL	STENCR	VCH
34.50	300.00	0.	0.	897.60	710.00	902.46	37.39	4.86	69.88	0.	0.	7.17
34.50	300.00	0.	0.	897.60	1210.00	903.70	75.75	6.10	84.84	0.	0.	7.16
34.50	300.00	0.	0.	897.60	1440.00	904.87	128.11	7.27	94.59	0.	0.	5.74
34.50	300.00	0.	0.	897.60	2110.00	904.94	131.20	7.34	95.01	0.	0.	8.26
37.00	250.00	0.	0.	900.90	710.00	906.98	75.11	6.08	84.63	0.	0.	4.23
37.00	250.00	0.	0.	900.90	1210.00	907.96	117.65	7.06	93.12	0.	0.	5.14
37.00	250.00	0.	0.	900.90	1440.00	908.11	124.78	7.21	94.13	0.	0.	5.85
37.00	250.00	0.	0.	900.90	2110.00	909.42	199.92	8.52	103.27	0.	0.	6.04
39.00	200.00	0.	0.	903.60	710.00	909.12	61.87	5.52	99.14	0.	0.	4.47
39.00	200.00	0.	0.	903.60	1210.00	910.23	112.06	6.43	115.90	0.	0.	4.83
39.00	200.00	0.	0.	903.60	1440.00	910.67	136.93	7.07	122.60	0.	0.	4.94
39.00	200.00	0.	0.	903.60	2110.00	911.70	205.61	8.10	138.14	0.	0.	5.34
40.50	150.00	0.	0.	904.40	710.00	910.88	68.97	6.48	75.89	0.	0.	4.23
40.50	150.00	0.	0.	904.40	1210.00	911.96	110.38	7.56	90.05	0.	0.	5.13
40.50	150.00	0.	0.	904.40	1440.00	912.37	129.27	7.97	95.13	0.	0.	5.44
40.50	150.00	0.	0.	904.40	2110.00	913.37	185.05	8.97	104.65	0.	0.	6.12
45.00	450.00	0.	0.	909.60	710.00	915.94	64.70	6.34	74.14	0.	0.	4.42
45.00	450.00	0.	0.	909.60	1210.00	917.23	113.59	7.63	91.00	0.	0.	5.02
45.00	450.00	0.	0.	909.60	1440.00	917.70	136.13	8.10	96.41	0.	0.	5.24
45.00	450.00	0.	0.	909.60	2110.00	918.82	200.78	9.22	107.03	0.	0.	5.77
51.00	600.00	0.	0.	916.60	710.00	922.45	73.15	5.85	97.95	0.	0.	3.67
51.00	600.00	0.	0.	916.60	1210.00	923.53	125.17	6.93	113.80	0.	0.	4.23
51.00	600.00	0.	0.	916.60	1440.00	923.94	149.55	7.34	119.12	0.	0.	4.42
51.00	600.00	0.	0.	916.60	2110.00	924.96	221.42	8.36	126.53	0.	0.	4.86
57.00	600.00	0.	0.	924.50	600.00	928.69	55.88	4.19	163.49	0.	0.	3.46
57.00	600.00	0.	0.	924.50	1030.00	929.44	102.34	4.94	173.12	0.	0.	3.70
57.00	600.00	0.	0.	924.50	1240.00	929.76	125.11	5.26	177.05	0.	0.	3.82
57.00	600.00	0.	0.	924.50	1800.00	930.52	190.08	6.02	186.06	0.	0.	4.05
61.00	400.00	0.	0.	929.20	600.00	933.37	55.02	4.17	163.28	0.	0.	3.51
61.00	400.00	0.	0.	929.20	1030.00	933.98	90.92	4.78	170.99	0.	0.	4.06
61.00	400.00	0.	0.	929.20	1240.00	934.24	108.77	5.04	174.26	0.	0.	4.26
61.00	400.00	0.	0.	929.20	1800.00	934.83	155.43	5.63	181.80	0.	0.	4.71
64.00	300.00	0.	0.	932.90	480.00	936.75	47.41	3.85	148.87	0.	0.	2.80
64.00	300.00	0.	0.	932.90	860.00	937.46	85.96	4.56	155.29	0.	0.	3.12
64.00	300.00	0.	0.	932.90	1040.00	937.74	104.19	4.84	158.23	0.	0.	3.24
64.00	300.00	0.	0.	932.90	1530.00	938.40	153.34	5.50	165.15	0.	0.	3.53
69.50	550.00	0.	0.	941.20	480.00	945.10	30.28	3.90	166.16	0.	0.	4.43
69.50	550.00	0.	0.	941.20	860.00	945.63	54.76	4.03	178.54	0.	0.	4.88
69.50	550.00	0.	0.	941.20	1040.00	945.84	66.75	4.64	180.23	0.	0.	5.02
69.50	550.00	0.	0.	941.20	1530.00	946.34	100.51	5.14	184.34	0.	0.	5.33

SECTION NUMBER	CHANNEL LENGTH	PIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	DEPTH	TOPWID	STENCL	STENCH	VCH
73.00	350.00	0.	0.	947.20	480.00	952.36	36.10	5.16	57.03	0.	0.	4.98
73.00	350.00	0.	0.	947.20	860.00	953.31	60.52	6.11	67.31	0.	0.	6.07
73.00	350.00	0.	0.	947.20	1040.00	953.66	71.29	6.46	72.78	0.	0.	6.50
73.00	350.00	0.	0.	947.20	1530.00	954.40	98.97	7.20	81.90	0.	0.	7.47
75.00	200.00	0.	0.	954.40	480.00	958.41	17.65	4.01	39.31	0.	0.	8.32
75.00	200.00	0.	0.	954.40	860.00	959.53	35.40	5.13	56.68	0.	0.	9.05
75.00	200.00	0.	0.	954.40	1040.00	959.90	43.92	5.50	60.66	0.	0.	9.32
75.00	200.00	0.	0.	954.40	1530.00	960.79	69.25	6.39	71.78	0.	0.	9.77
77.00	200.00	0.	0.	961.60	480.00	966.57	32.27	4.97	54.90	0.	0.	5.41
77.00	200.00	0.	0.	961.60	860.00	967.51	54.50	5.91	64.99	0.	0.	6.56
77.00	200.00	0.	0.	961.60	1040.00	967.86	64.66	6.26	69.47	0.	0.	6.99
77.00	200.00	0.	0.	961.60	1530.00	968.59	90.70	6.99	79.74	0.	0.	7.98
79.00	200.00	0.	0.	968.80	480.00	973.03	20.37	4.23	42.79	0.	0.	7.52
79.00	200.00	0.	0.	968.80	860.00	974.09	39.07	5.29	58.46	0.	0.	8.41
79.00	200.00	0.	0.	968.80	1040.00	974.47	48.29	5.67	62.51	0.	0.	8.69
79.00	200.00	0.	0.	968.80	1530.00	975.34	74.36	6.54	74.24	0.	0.	9.26
81.00	200.00	0.	0.	975.90	480.00	980.41	31.96	4.51	50.82	0.	0.	4.74
81.00	200.00	0.	0.	975.90	860.00	981.21	56.62	5.31	64.34	0.	0.	5.53
81.00	200.00	0.	0.	975.90	1040.00	981.52	67.94	5.62	65.69	0.	0.	5.84
81.00	200.00	0.	0.	975.90	1530.00	982.24	98.02	6.34	88.80	0.	0.	6.57
85.00	400.00	0.	0.	979.50	480.00	984.93	60.56	5.43	84.82	0.	0.	2.93
85.00	400.00	0.	0.	979.50	860.00	986.00	105.07	6.50	89.46	0.	0.	3.51
85.00	400.00	0.	0.	979.50	1040.00	986.42	125.66	6.92	91.30	0.	0.	3.73
85.00	400.00	0.	0.	979.50	1530.00	987.41	181.24	7.91	95.59	0.	0.	4.23
90.00	600.00	0.	0.	986.00	480.00	990.18	41.87	4.18	136.67	0.	0.	3.64
90.00	600.00	0.	0.	986.00	860.00	991.02	82.93	5.02	147.91	0.	0.	3.80
90.00	600.00	0.	0.	986.00	1040.00	991.37	103.75	5.37	152.51	0.	0.	3.86
90.00	600.00	0.	0.	986.00	1530.00	992.20	163.57	6.20	163.65	0.	0.	4.02
95.00	500.00	0.	0.	990.60	480.00	995.10	55.67	4.50	163.13	0.	0.	2.87
95.00	500.00	0.	0.	990.60	860.00	995.76	94.59	5.16	182.95	0.	0.	3.37
95.00	500.00	0.	0.	990.60	1040.00	996.02	112.82	5.42	186.42	0.	0.	3.54
95.00	500.00	0.	0.	990.60	1530.00	996.63	162.33	6.03	194.69	0.	0.	3.92
98.00	300.00	0.	0.	995.50	440.00	1000.04	19.98	4.54	107.82	0.	0.	6.15
98.00	300.00	0.	0.	995.50	770.00	1000.50	32.31	5.00	114.60	0.	0.	7.18
98.00	300.00	0.	0.	995.50	900.00	1000.70	39.16	5.20	117.69	0.	0.	7.14
98.00	300.00	0.	0.	995.50	1340.00	1001.30	63.13	5.20	126.59	0.	0.	7.14
101.00	300.00	0.	0.	1000.60	440.00	1005.97	45.19	5.37	120.16	0.	0.	3.10
101.00	300.00	0.	0.	1000.60	770.00	1006.73	79.44	6.13	132.77	0.	0.	3.42
101.00	300.00	0.	0.	1000.60	900.00	1006.95	90.91	6.35	137.78	0.	0.	3.60
101.00	300.00	0.	0.	1000.60	1340.00	1007.56	129.24	6.96	152.46	0.	0.	4.12

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TO	DEPTH	TOPWID	STENCL	STENCR	VCH
105.00	400.00	0.	0.	1007.40	340.00	1012.07	17.23	4.67	79.24	0.	0.	5.83
105.00	400.00	0.	0.	1007.40	610.00	1012.76	31.86	5.36	90.59	0.	0.	6.13
105.00	400.00	0.	0.	1007.40	760.00	1013.09	41.80	5.69	104.89	0.	0.	6.15
105.00	400.00	0.	0.	1007.40	1100.00	1013.72	65.85	6.32	131.52	0.	0.	6.20
107.50	250.00	0.	0.	1011.70	340.00	1017.07	32.65	5.37	91.83	0.	0.	3.35
107.50	250.00	0.	0.	1011.70	610.00	1017.81	56.59	6.11	122.45	0.	0.	3.88
107.50	250.00	0.	0.	1011.70	760.00	1018.09	68.65	6.39	133.14	0.	0.	4.14
107.50	250.00	0.	0.	1011.70	1100.00	1018.61	95.09	6.91	146.57	0.	0.	4.63
110.20	270.00	0.	0.	1016.20	340.00	1020.85	24.64	4.65	74.31	0.	0.	3.81
110.20	270.00	0.	0.	1016.20	610.00	1021.66	45.22	5.46	92.19	0.	0.	4.22
110.20	270.00	0.	0.	1016.20	760.00	1021.99	57.24	5.79	96.33	0.	0.	4.42
110.20	270.00	0.	0.	1016.20	1100.00	1022.63	84.49	6.43	104.32	0.	0.	4.81
110.50	30.00	0.	0.	1016.20	340.00	1021.44	20.29	5.24	22.00	0.	0.	4.82
110.50	30.00	0.	0.	1016.20	610.00	1022.20	26.44	6.00	22.00	0.	0.	6.98
110.50	30.00	0.	0.	1016.20	760.00	1022.47	31.45	6.27	22.00	0.	0.	6.16
110.50	30.00	0.	0.	1016.20	1100.00	1022.85	36.03	6.65	22.00	0.	0.	10.82
111.00	50.00	1025.50	1020.50	1018.30	340.00	1027.25	350.24	8.95	178.10	0.	0.	1.00
111.00	50.00	1025.50	1020.50	1018.30	610.00	1028.21	483.10	9.91	199.56	0.	0.	1.39
111.00	50.00	1025.50	1020.50	1018.30	760.00	1028.67	560.46	10.37	210.34	0.	0.	1.55
111.00	50.00	1025.50	1020.50	1018.30	1100.00	1029.61	740.50	11.31	232.64	0.	0.	1.80
111.40	40.00	0.	0.	1019.70	340.00	1027.25	202.50	7.55	147.04	0.	0.	1.53
111.40	40.00	0.	0.	1019.70	610.00	1028.21	298.69	8.51	168.37	0.	0.	2.03
111.40	40.00	0.	0.	1019.70	760.00	1028.67	352.68	8.97	178.53	0.	0.	2.22
111.40	40.00	0.	0.	1019.70	1100.00	1029.61	481.99	9.91	199.40	0.	0.	2.52
114.00	260.00	0.	0.	1025.50	340.00	1029.28	17.84	3.78	10.00	0.	0.	10.34
114.00	260.00	0.	0.	1025.50	610.00	1030.84	31.73	5.34	10.00	0.	0.	12.58
114.00	260.00	0.	0.	1025.50	760.00	1031.61	39.29	6.11	10.00	0.	0.	13.52
114.00	260.00	0.	0.	1025.50	1100.00	1033.18	55.51	7.68	10.00	0.	0.	15.31
115.00	100.00	1054.50	1033.30	1028.80	340.00	1039.76	92.60	10.96	10.00	0.	0.	3.25
115.00	100.00	1054.50	1033.30	1028.80	610.00	1055.04	4405.46	26.24	193.00	0.	0.	0.32
115.00	100.00	1054.50	1033.30	1028.80	760.00	1055.52	4599.83	26.72	193.00	0.	0.	0.39
115.00	100.00	1054.50	1033.30	1028.80	1100.00	1056.30	4921.94	27.50	193.00	0.	0.	0.53
116.00	100.00	0.	0.	1031.00	340.00	1039.99	322.49	8.99	115.51	0.	0.	1.17
116.00	100.00	0.	0.	1031.00	610.00	1055.04	3581.30	24.04	189.95	0.	0.	0.37
116.00	100.00	0.	0.	1031.00	760.00	1055.52	3751.96	24.52	191.22	0.	0.	0.45
116.00	100.00	0.	0.	1031.00	1100.00	1056.30	4038.50	25.30	193.00	0.	0.	0.62
119.00	300.00	0.	0.	1039.10	340.00	1042.20	22.06	3.10	36.66	0.	0.	7.77
119.00	300.00	0.	0.	1039.10	610.00	1055.04	1719.86	15.94	185.86	0.	0.	0.60
119.00	300.00	0.	0.	1039.10	760.00	1055.52	1860.58	16.02	195.53	0.	0.	0.70
119.00	300.00	0.	0.	1039.10	1100.00	1056.30	2104.49	17.20	211.22	0.	0.	0.93

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH 0	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
9.500	710.000	887.200	0.	0.	0.	120.218	0.	0.
9.500	1220.000	892.600	5.400	0.	0.	352.482	-232.264	0.
9.500	1460.000	895.500	2.900	0.	0.	436.313	-316.094	0.
9.500	2170.000	899.200	3.700	0.	0.	496.900	-376.682	0.
9.700	710.000	887.208	0.	0.008	0.	120.220	0.	20.000
9.700	1220.000	892.612	5.404	0.012	0.	353.054	-232.835	20.000
9.700	1460.000	895.505	2.894	0.005	0.	436.372	-316.153	20.000

7,700	2170.000	899,204	3,698	0.004	0.	496,921	-376.701	20,000
10,000	710,000	887,221	0.	0.013	0.	109,286	0.	30,000
10,000	1220,000	892,618	5,397	0.006	0.	368,382	-259,096	30,000
10,000	1460,000	895,507	2,889	0.001	0.	412,031	-302,745	30,000
10,000	2170,000	899,204	3,697	0.000	0.	426,811	-317,526	30,000
10,300	710,000	887,259	0.	0.038	0.	109,376	0.	30,000
10,300	1220,000	892,628	5,369	0.011	0.	368,521	-259,145	30,000
10,300	1460,000	895,511	2,883	0.005	0.	412,000	-302,664	30,000
10,300	2170,000	899,207	3,696	0.003	0.	426,816	-317,440	30,000
10,800	710,000	887,278	0.	0.019	0.	261,854	0.	50,000
10,800	1220,000	892,633	5,355	0.005	0.	296,376	-34,521	50,000
10,800	1460,000	895,513	2,880	0.002	0.	351,786	-89,931	50,000
10,800	2170,000	899,209	3,696	0.002	0.	377,565	-115,710	50,000
13,000	710,000	887,283	0.	0.005	0.	256,980	0.	220,000
13,000	1220,000	892,635	5,352	0.002	0.	278,804	-21,664	220,000
13,000	1460,000	895,515	2,880	0.001	0.	323,770	-66,790	220,000
13,000	2170,000	899,210	3,695	0.001	0.	369,054	-112,074	220,000
17,000	710,000	887,311	0.	0.027	0.	332,281	0.	400,000
17,000	1220,000	892,644	5,333	0.009	0.	358,743	-26,463	400,000
17,000	1460,000	895,521	2,877	0.006	0.	375,156	-42,875	400,000
17,000	2170,000	899,216	3,695	0.006	0.	398,936	-66,656	400,000
19,500	710,000	887,391	0.	0.080	0.	119,277	0.	250,000
19,500	1220,000	892,656	5,265	0.012	0.	177,030	-57,753	250,000
19,500	1460,000	895,526	2,871	0.006	0.	197,833	-78,556	250,000
19,500	2170,000	899,220	3,694	0.004	0.	224,573	-105,296	250,000
24,000	710,000	891,332	0.	3.941	0.	104,705	0.	450,000
24,000	1220,000	893,078	1,746	0.423	0.	128,764	-24,019	450,000
24,000	1460,000	895,692	2,614	0.166	0.	162,832	-58,087	450,000
24,000	2170,000	899,321	3,628	0.101	0.	189,120	-84,375	450,000
31,500	710,000	899,012	0.	7.680	0.	181,714	0.	750,000
31,500	1220,000	899,507	0,495	6,429	0.	184,502	-2,788	750,000
31,500	1460,000	898,835	-0,672	3,143	0.	180,733	0,981	750,000
31,500	2170,000	900,463	1,628	1,143	0.	190,008	-8,294	750,000
34,500	710,000	902,461	0.	3,449	0.	69,878	0.	300,000
34,500	1210,000	903,699	1,239	4,192	0.	84,837	-14,959	300,000
34,500	1440,000	904,874	1,174	6,039	0.	94,587	-24,709	300,000
34,500	2110,000	904,936	0,063	4,473	0.	95,007	-25,129	300,000
37,000	710,000	906,983	0.	4,522	0.	84,631	0.	250,000
37,000	1210,000	907,964	0,981	4,265	0.	93,124	-8,493	250,000
37,000	1440,000	906,109	0,145	3,236	0.	94,129	-9,498	250,000
37,000	2110,000	909,416	1,307	4,479	0.	103,273	-18,642	250,000
39,000	710,000	909,120	0.	2,137	0.	99,140	0.	200,000
39,000	1210,000	910,226	1,106	2,262	0.	115,900	-16,760	200,000
39,000	1440,000	910,665	0,439	2,556	0.	122,600	-23,460	200,000
39,000	2110,000	911,696	1,030	2,280	0.	138,136	-38,996	200,000
40,500	710,000	910,876	0.	1,756	0.	75,886	0.	150,000
40,500	1210,000	911,960	1,084	1,734	0.	90,049	-14,163	150,000
40,500	1440,000	912,367	0,407	1,702	0.	95,127	-19,241	150,000
40,500	2110,000	913,370	1,003	1,675	0.	104,650	-28,764	150,000
45,000	710,000	915,942	0.	5,066	0.	74,140	0.	450,000
45,000	1210,000	917,232	1,290	5,272	0.	90,996	-16,856	450,000
45,000	1440,000	917,702	0,470	5,335	0.	96,412	-22,272	450,000
45,000	2110,000	918,819	1,118	5,449	0.	107,030	-32,890	450,000

comp. base
at 0.1
60175

51,000	710,000	922,445	0.	6,503	0.	97,952	0.	600,000
51,000	1210,000	923,531	1,086	6,299	0.	113,799	-15,847	600,000
51,000	1440,000	923,936	0,405	6,235	0.	119,121	-21,169	600,000
51,000	2110,000	924,961	1,025	6,142	0.	126,526	-28,574	600,000
57,000	600,000	928,690	0.	6,245	0.	163,486	0.	600,000
57,000	1030,000	929,445	0,754	5,914	0.	173,115	-9,629	600,000
57,000	1240,000	929,756	0,312	5,820	0.	177,049	-13,563	600,000
57,000	1800,000	930,518	0,762	5,557	0.	186,056	-22,570	600,000
61,000	600,000	933,372	0.	4,682	0.	163,275	0.	400,000
61,000	1030,000	933,977	0,605	4,533	0.	170,986	-7,711	400,000
61,000	1240,000	934,239	0,262	4,483	0.	174,264	-10,988	400,000
61,000	1800,000	934,835	0,596	4,317	0.	181,797	-18,521	400,000
64,000	480,000	936,752	0.	3,380	0.	148,866	0.	300,000
64,000	860,000	937,460	0,708	3,483	0.	155,295	-6,428	300,000
64,000	1040,000	937,740	0,280	3,501	0.	158,230	-9,363	300,000
64,000	1530,000	938,399	0,659	3,564	0.	165,150	-16,284	300,000
69,500	480,000	945,105	0.	8,352	0.	166,160	0.	550,000
69,500	860,000	945,631	0,527	8,171	0.	178,544	-12,384	550,000
69,500	1040,000	945,837	0,206	8,097	0.	180,228	-14,068	550,000
69,500	1530,000	946,341	0,504	7,942	0.	187,340	-18,180	550,000
73,000	480,000	952,359	0.	7,254	0.	57,027	0.	350,000
73,000	860,000	953,314	0,955	7,682	0.	67,310	-10,282	350,000
73,000	1040,000	953,656	0,343	7,819	0.	72,776	-15,748	350,000
73,000	1530,000	954,405	0,748	8,064	0.	81,897	-24,870	350,000
75,000	480,000	958,413	0.	6,055	0.	39,314	0.	200,000
75,000	860,000	959,526	1,113	6,212	0.	56,677	-17,363	200,000
75,000	1040,000	959,858	0,372	6,241	0.	60,657	-21,342	200,000
75,000	1530,000	960,792	0,894	6,388	0.	71,781	-32,467	200,000
77,000	480,000	966,574	0.	8,161	0.	54,899	0.	200,000
77,000	860,000	967,506	0,932	7,980	0.	64,990	-10,091	200,000
77,000	1040,000	967,855	0,349	7,957	0.	69,474	-14,576	200,000
77,000	1530,000	968,595	0,739	7,802	0.	79,744	-24,845	200,000
79,000	480,000	973,028	0.	6,454	0.	42,787	0.	200,000
79,000	860,000	974,086	1,058	6,580	0.	58,456	-15,669	200,000
79,000	1040,000	974,474	0,388	6,619	0.	62,515	-19,728	200,000
79,000	1530,000	975,340	0,866	6,745	0.	74,235	-31,449	200,000
81,000	480,000	980,411	0.	7,384	0.	80,821	0.	200,000
81,000	860,000	981,209	0,797	7,123	0.	94,343	-3,522	200,000
81,000	1040,000	981,525	0,316	7,051	0.	85,686	-4,865	200,000
81,000	1530,000	982,244	0,719	6,904	0.	88,801	-7,980	200,000
85,000	480,000	984,927	0.	4,516	0.	84,824	0.	400,000
85,000	860,000	985,995	1,068	4,787	0.	89,462	-4,638	400,000
85,000	1040,000	986,419	0,424	4,895	0.	91,298	-6,474	400,000
85,000	1530,000	987,406	0,987	5,163	0.	95,588	-10,764	400,000
90,000	480,000	990,183	0.	5,256	0.	136,668	0.	600,000
90,000	860,000	991,023	0,841	5,028	0.	147,908	-11,241	600,000
90,000	1040,000	991,365	0,342	4,946	0.	152,509	-15,841	600,000
90,000	1530,000	992,195	0,830	4,789	0.	163,648	-26,961	600,000
95,000	480,000	995,098	0.	4,915	0.	163,128	0.	500,000
95,000	860,000	995,764	0,666	4,701	0.	182,947	-19,819	500,000
95,000	1040,000	996,017	0,253	4,652	0.	166,424	-23,296	500,000
95,000	1530,000	996,626	0,609	4,430	0.	194,686	-31,558	500,000

98,000	440,000	1000.042	0.	4.944	0.	107,820	0.	300,000
98,000	770,000	1000.496	0.454	4.732	0.	114,603	-6.783	300,000
98,000	900,000	1000.703	0.207	4.686	0.	117,685	-9.865	300,000
98,000	1340,000	1001.302	0.599	4.676	0.	126,594	-18.774	300,000
101,000	440,000	1005.968	0.	5.926	0.	120,157	0.	300,000
101,000	770,000	1006.734	0.766	6.238	0.	132,766	-12.608	300,000
101,000	900,000	1006.945	0.212	6.242	0.	137,775	-17.618	300,000
101,000	1340,000	1007.558	0.613	6.256	0.	152,459	-32.301	300,000
105,000	340,000	1012.067	0.	6.099	0.	79,240	0.	400,000
105,000	610,000	1012.756	0.689	6.022	0.	90,594	-11.354	400,000
105,000	760,000	1013.086	0.331	6.141	0.	104,888	-25.648	400,000
105,000	1100,000	1013.721	0.634	6.163	0.	131,524	-52.285	400,000
107,500	340,000	1017.072	0.	5.005	0.	91,829	0.	250,000
107,500	610,000	1017.810	0.738	5.054	0.	122,451	-30.622	250,000
107,500	760,000	1018.085	0.275	4.999	0.	133,139	-41.311	250,000
107,500	1100,000	1018.605	0.520	4.885	0.	146,573	-54.744	250,000
110,200	340,000	1020.846	0.	3.774	0.	74,307	0.	270,000
110,200	610,000	1021.659	0.813	3.849	0.	92,190	-17.883	270,000
110,200	760,000	1021.992	0.333	3.907	0.	96,332	-22.025	270,000
110,200	1100,000	1022.626	0.634	4.020	0.	104,317	-30.010	270,000
110,500	340,000	1021.439	0.	0.593	0.	22,000	0.	30,000
110,500	610,000	1022.204	0.765	0.545	0.	22,000	0.	30,000
110,500	760,000	1022.467	0.263	0.475	0.	22,000	0.	30,000
110,500	1100,000	1022.848	0.381	0.222	0.	22,000	0.	30,000
111,000	340,000	1027.249	0.	5.810	0.	178,097	0.	50,000
111,000	610,000	1028.211	0.962	6.007	0.	199,565	-21.468	50,000
111,000	760,000	1028.669	0.458	6.202	0.	210,343	-32.246	50,000
111,000	1100,000	1029.605	0.936	6.757	0.	232,644	-54.548	50,000
111,400	340,000	1027.251	0.	0.002	0.	147,039	0.	40,000
111,400	610,000	1028.215	0.963	0.004	0.	168,370	-21.331	40,000
111,400	760,000	1028.673	0.459	0.004	0.	178,535	-31.496	40,000
111,400	1100,000	1029.610	0.937	0.005	0.	199,404	-52.366	40,000
114,000	340,000	1029.277	0.	2.026	0.	10,000	0.	260,000
114,000	610,000	1030.839	1.562	2.624	0.	10,000	0.	260,000
114,000	760,000	1031.613	0.774	2.940	0.	10,000	0.	260,000
114,000	1100,000	1033.176	1.563	3.566	0.	10,000	0.	260,000
115,000	340,000	1039.764	0.	10.487	0.	10,000	0.	100,000
115,000	610,000	1055.035	15.271	24.197	0.	193,001	-183,001	100,000
115,000	760,000	1055.518	0.483	23.905	0.	193,001	-183,001	100,000
115,000	1100,000	1055.300	0.782	23.124	0.	193,001	-183,001	100,000
116,000	340,000	1039.991	0.	0.227	0.	115,509	0.	100,000
116,000	610,000	1055.036	15.044	0.000	0.	189,952	-74.443	100,000
116,000	760,000	1055.518	0.483	0.000	0.	191,216	-75.707	100,000
116,000	1100,000	1056.300	0.782	0.000	0.	193,001	-77.492	100,000
119,000	340,000	1042.196	0.	2.204	0.	36,662	0.	300,000
119,000	610,000	1055.036	12.840	0.000	0.	185,857	-149.195	300,000
119,000	760,000	1055.519	0.483	0.000	0.	195,534	-158.872	300,000
119,000	1100,000	1056.301	0.782	0.001	0.	211,217	-174.555	300,000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.	0.	30.660	0.
2	0.	0.	36.152	5.492
3	0.	0.	38.423	7.763

60490 Dutchmen² C₁ = 0400 TRIB D-1 D-1

plot

 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

0400 → 929.1 ground
 933.3 10yr
 933.9 50yr
 934.1 100yr
 934.7 500yr

Plotted
 16 DEC. 76
 S.P. FLETCHER

OUR COPY

T1 ELKIN NORTH CAROLINA
 T2 FLOOD INSURANCE STUDY
 T3 TRIBUTARY D-1

J1	ICHECK	INC	MINV	IPR	STRT	METRIC	HVINS	Q	WSEL	FG
	0.	2.	0.	0.	0.019000	0.	0.	0.	938.000	0.
J2	NPROF	IPLT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHVIN	ITRACE
	1.000	0.	-1.000	0.	0.	0.	0.	0.	0.	0.
J3	1.000	8.000	34.000	4.000	27.000	28.000	26.000	0.	0.	0.
NC	0.100	0.100	0.100	0.300	0.500	0.	0.	0.	0.	0.
WT	5.000	230.000	430.000	550.000	550.000	810.000	0.	0.	0.	0.
ET	0.	0.	0.	0.	10.400	0.	0.	0.	0.	0.
X1	2.200	15.000	158.000	167.000	0.	0.	0.	0.	0.	0.
GP	970.100	0.	930.900	50.000	984.400	100.000	947.700	107.000	941.900	120.000
GR	939.100	150.000	934.900	158.000	933.800	159.000	933.700	161.000	933.800	165.000
GR	935.500	167.000	937.500	200.000	939.600	233.000	948.800	250.000	954.500	260.000
X1	2.700	0.	0.	0.	50.000	50.000	50.000	0.	2.400	0.
X3	10.000	0.	0.	0.	0.	0.	0.	958.000	958.000	0.
SB	0.	1.500	2.500	0.	2.700	0.	9.600	0.	937.600	936.100
X1	3.200	18.000	165.000	174.000	50.000	50.000	50.000	0.	-1.000	0.
X2	0.	0.	1.000	941.100	958.200	0.	0.	0.	0.	0.
X3	10.000	0.	0.	0.	0.	0.	0.	959.000	959.000	0.
BT	13.000	0.	959.800	0.	50.000	958.600	0.	100.000	959.000	0.
BT	150.000	961.700	0.	165.000	963.000	0.	168.200	963.200	939.400	168.600
BT	963.200	940.600	170.000	963.200	941.100	171.500	963.200	940.600	171.800	963.200
BT	539.400	180.000	965.500	0.	200.000	966.900	0.	232.000	971.200	0.
GR	960.700	0.	960.200	16.000	959.200	29.000	952.700	50.000	946.600	67.000
CR	944.800	100.000	941.200	150.000	940.000	165.000	939.500	167.000	940.400	168.200
GR	939.200	168.600	938.600	170.000	939.200	171.500	940.400	171.800	939.900	174.000
GR	941.200	189.000	948.900	200.000	962.800	232.000	0.	0.	0.	0.
X1	3.500	0.	0.	0.	30.000	30.000	30.000	0.	1.000	0.
X1	5.500	0.	0.	0.	200.000	200.000	200.000	0.	4.200	0.
X1	7.400	14.000	164.000	173.000	190.000	190.000	190.000	0.	0.	0.
GR	966.700	0.	966.600	11.000	965.900	25.000	959.300	36.000	956.500	50.000
GR	953.100	100.000	950.100	150.000	948.400	164.000	947.100	165.000	946.900	169.000
GR	947.100	171.000	949.600	173.000	965.400	200.000	971.400	215.000	0.	0.

					50,000	50,000	50,000	0.	2,200	0.
X1	9,000	0.	0.	0.	100,000	100,000	100,000	0.	3,650	0.
X1	10,000	10,000	41,000	55,000	100,000	100,000	100,000	0.	-9,100	0.
GR	980,200	0.	967,900	41,000	966,100	42,000	965,600	44,000	966,100	47,000
GR	966,600	50,000	967,400	55,000	969,000	80,000	979,500	100,000	990,400	120,000
X1	11,000	0.	0.	0.	100,000	100,000	100,000	0.	3,650	0.
X1	12,000	0.	0.	0.	100,000	100,000	100,000	0.	3,650	0.
X1	12,500	0.	0.	0.	50,000	50,000	50,000	0.	1,830	0.
X1	14,000	0.	0.	0.	150,000	150,000	150,000	0.	2,100	0.
X1	16,000	12,000	97,000	108,000	200,000	200,000	200,000	0.	-6,000	0.
GR	996,100	0.	988,300	50,000	981,300	97,000	976,900	100,000	976,400	103,000
GR	976,900	106,000	978,200	108,000	979,800	142,000	981,500	150,000	986,800	177,000
GR	989,400	200,000	999,500	230,000	0.	0.	0.	0.	0.	0.
X1	18,000	0.	0.	0.	200,000	200,000	200,000	0.	2,800	0.
X1	20,200	0.	0.	0.	220,000	220,000	220,000	0.	3,200	0.
X1	22,000	0.	0.	0.	180,000	180,000	180,000	0.	3,200	0.
X1	24,000	0.	0.	0.	200,000	200,000	200,000	0.	3,600	0.
X1	25,600	13,000	167,000	176,000	160,000	160,000	160,000	0.	0.	0.
GR	1012,400	0.	1004,000	50,000	996,900	100,000	991,800	150,000	989,900	167,000
GR	986,200	170,000	986,100	172,000	986,200	174,000	989,800	176,000	988,600	200,000
GR	991,700	243,000	994,000	250,000	1008,900	284,000	0.	0.	0.	0.
X1	26,000	0.	0.	0.	40,000	40,000	40,000	0.	0.	0.
X3	10,000	0.	0.	0.	0.	0.	0.	1006,000	1006,000	0.
SB	0.	1,500	2,500	0.	2,400	0.	7,100	0.	991,200	986,100
X1	26,500	14,000	130,000	141,000	50,000	50,000	50,000	0.	0.	0.
X2	0.	0.	1,000	994,200	1004,700	0.	0.	0.	0.	0.
X3	10,000	0.	0.	0.	0.	0.	0.	1005,500	1005,500	0.
BT	12,000	0.	1010,000	0.	50,000	1006,300	0.	100,000	1004,900	0.
BT	130,000	1005,000	0.	135,500	1005,400	992,700	135,800	1005,400	994,000	137,000
BT	1005,400	994,200	138,200	1005,400	994,000	138,500	1005,400	992,700	150,000	1005,600
BT	0.	200,000	1009,300	0.	250,000	1015,000	0.	0.	0.	0.
GR	1014,300	0.	1001,500	50,000	995,600	100,000	994,400	130,000	992,700	135,500
GR	991,600	135,800	991,200	137,000	991,600	138,200	992,700	138,500	993,300	141,000
GR	995,400	150,000	1004,300	200,000	1014,200	250,000	1018,300	283,000	0.	0.
QT	5,000	170,000	320,000	410,000	410,000	600,000	0.	0.	0.	0.
X1	28,000	0.	0.	0.	150,000	150,000	150,000	0.	2,900	0.

X1	29,500	0.	0.	0.	150,000	150,000	150,000	0.	2,900	0.
X1	31,000	10,000	193,000	192,000	150,000	150,000	150,000	0.	0.	0.
GR	1025,900	0.	1116,400	50,000	1008,500	100,000	1004,400	150,000	1001,900	183,000
GR	1000,800	189,000	1003,500	192,000	1004,400	200,000	1017,300	250,000	1022,500	275,000
X1	32,000	0.	0.	0.	100,000	100,000	100,000	0.	1,700	0.
X1	33,000	0.	0.	0.	100,000	100,000	100,000	0.	1,700	0.
X1	34,000	0.	0.	0.	100,000	100,000	100,000	0.	1,700	0.
X1	35,000	0.	0.	0.	100,000	100,000	100,000	0.	1,700	0.
X1	37,000	12,000	85,000	100,000	200,000	200,000	200,000	0.	0.	0.
GR	1030,200	0.	1023,100	50,000	1016,300	85,000	1011,800	86,000	1011,300	89,000
GR	1011,800	93,000	1012,400	98,000	1015,500	100,000	1016,800	150,000	1019,700	200,000
GR	1029,300	250,000	1034,900	270,000	0.	0.	0.	0.	0.	0.
EJ	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

 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 ELKIN NORTH CAROLINA
 T2 FLOOD INSURANCE STUDY
 T3 TRIBUTARY D-1 50 YR Q

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	3.	0.	0.	0.019000	0.	0.	0.	939,000	0.
J2	NPROF	IPLDT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2,000	0.	-1,000	0.	0.	0.	0.	0.	0.	0.

 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 ELKIN NORTH CAROLINA
 T2 FLOOD INSURANCE STUDY
 T3 TRIBUTARY D-1 100 YR Q

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	
	0.	4.	0.	0.	0.019000	0.	0.	0.	940,000	0.
J2	NPROF	IPLT	PRVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3,000	0.	-1,000	0.	0.	0.	0.	0.	0.	0.

 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 ELKIN NORTH CAROLINA
 T2 FLOOD INSURANCE STUDY
 T3 TRIBUTARY D-1 500 YR Q

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	PG
	0.	6.	0.	0.	0.019000	0.	0.	0.	941.000	0.
J2	NPROF	IPL0T	PRFVS	XSECV	XJECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15,000	0.	-1.000	0.	0.	0.	0.	0.	0.	0.

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

TRIBUTARY D-1 500 YR Q

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	DEPTH	TQ	TOPWID	STENCL	STENCR	VCH
2.20	0.	0.	0.	933.70	230.00	937.56	3.86	16.67	47.97	0.	0.	4.41
2.20	0.	0.	0.	933.70	430.00	938.37	4.67	31.10	62.33	0.	0.	5.07
2.20	0.	0.	0.	933.70	550.00	938.75	5.05	39.87	69.06	0.	0.	5.35
2.20	0.	0.	0.	933.70	810.00	939.43	5.73	59.07	83.83	0.	0.	5.81
2.70	50.00	0.	0.	936.10	230.00	939.13	3.03	5.92	9.00	0.	0.	9.41
2.70	50.00	0.	0.	936.10	430.00	940.56	4.46	11.11	9.00	0.	0.	11.54
2.70	50.00	0.	0.	936.10	550.00	941.27	5.17	14.01	9.00	0.	0.	12.58
2.70	50.00	0.	0.	936.10	810.00	942.73	6.63	20.29	9.00	0.	0.	14.27
3.20	50.00	958.20	941.10	937.60	230.00	952.45	14.85	56.32	9.00	0.	0.	1.85
3.20	50.00	958.20	941.10	937.60	430.00	959.69	22.09	2566.50	226.71	0.	0.	0.16
3.20	50.00	958.20	941.10	937.60	550.00	960.02	22.42	2658.21	227.90	0.	0.	0.20
3.20	50.00	958.20	941.10	937.60	810.00	960.57	22.97	2814.91	229.17	0.	0.	0.29
3.50	30.00	0.	0.	938.60	230.00	952.52	13.92	851.09	157.82	0.	0.	0.19
3.50	30.00	0.	0.	938.60	430.00	959.69	21.09	2302.82	202.16	0.	0.	0.17
3.50	30.00	0.	0.	938.60	550.00	960.02	21.42	2388.26	207.23	0.	0.	0.22
3.50	30.00	0.	0.	938.60	810.00	960.57	21.97	2534.22	222.64	0.	0.	0.31
5.50	200.00	0.	0.	942.80	230.00	952.52	9.72	331.00	136.94	0.	0.	0.37
5.50	200.00	0.	0.	942.80	430.00	959.69	16.89	1365.96	174.17	0.	0.	0.25
5.50	200.00	0.	0.	942.80	550.00	960.02	17.22	1430.97	176.01	0.	0.	0.31
5.50	200.00	0.	0.	942.80	810.00	960.57	17.77	1542.24	179.05	0.	0.	0.44
7.40	190.00	0.	0.	946.90	230.00	952.53	5.63	42.56	68.40	0.	0.	2.11
7.40	190.00	0.	0.	946.90	430.00	959.69	12.79	568.85	154.89	0.	0.	0.53
7.40	190.00	0.	0.	946.90	550.00	960.02	13.12	609.73	156.01	0.	0.	0.64
7.40	190.00	0.	0.	946.90	810.00	960.58	13.68	684.39	157.87	0.	0.	0.87
8.00	60.00	0.	0.	949.10	230.00	952.79	3.69	11.79	32.86	0.	0.	5.56
8.00	60.00	0.	0.	949.10	430.00	959.69	10.59	324.68	141.44	0.	0.	0.81
8.00	60.00	0.	0.	949.10	550.00	960.03	10.93	356.89	143.67	0.	0.	0.97
8.00	60.00	0.	0.	949.10	810.00	960.59	11.49	414.04	147.39	0.	0.	1.21
9.00	100.00	0.	0.	952.75	230.00	956.49	3.74	12.22	33.70	0.	0.	5.42
9.00	100.00	0.	0.	952.75	430.00	959.72	6.97	85.63	91.44	0.	0.	2.29
9.00	100.00	0.	0.	952.75	550.00	960.06	7.31	100.28	97.03	0.	0.	2.59
9.00	100.00	0.	0.	952.75	810.00	960.64	7.89	128.95	106.68	0.	0.	3.13
10.00	100.00	0.	0.	956.50	230.00	959.96	3.46	12.81	42.98	0.	0.	4.77
10.00	100.00	0.	0.	956.50	430.00	960.15	3.65	15.34	44.00	0.	0.	7.82
10.00	100.00	0.	0.	956.50	550.00	960.53	4.03	20.81	45.93	0.	0.	8.01
10.00	100.00	0.	0.	956.50	810.00	961.27	4.77	34.48	49.63	0.	0.	8.19
11.00	100.00	0.	0.	960.15	230.00	963.50	3.35	11.55	41.68	0.	0.	5.14
11.00	100.00	0.	0.	960.15	430.00	964.61	4.46	28.44	48.23	0.	0.	4.99
11.00	100.00	0.	0.	960.15	550.00	964.94	4.79	35.11	49.99	0.	0.	5.49
11.00	100.00	0.	0.	960.15	810.00	965.52	5.37	48.01	52.98	0.	0.	6.47

MATCH
LINE

FROM: 1.000 TO: 1.000 OF THE DISTANCE MULTIPLE CHANNELS E. E. 1.

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CF8)	CWBEL	DEPTH	TO	TOPWID	STENCL	STENCR	VCH
12.00	100.00	0.	0.	963.80	230.00	967.23	3.43	12.43	42.81	0.	0.	4.88
12.00	100.00	0.	0.	963.80	430.00	967.73	3.93	19.40	45.46	0.	0.	6.59
12.00	100.00	0.	0.	963.80	550.00	968.11	4.31	25.68	47.44	0.	0.	6.87
12.00	100.00	0.	0.	963.80	810.00	968.83	5.03	40.05	51.19	0.	0.	7.36
12.50	50.00	0.	0.	965.63	230.00	969.01	3.38	11.87	42.26	0.	0.	5.04
12.50	50.00	0.	0.	965.63	430.00	969.86	4.23	24.31	47.03	0.	0.	5.59
12.50	50.00	0.	0.	965.63	550.00	970.20	4.57	30.39	48.77	0.	0.	6.09
12.50	50.00	0.	0.	965.63	810.00	970.81	5.18	43.24	51.93	0.	0.	6.97
14.00	150.00	0.	0.	967.73	230.00	971.89	4.16	23.04	46.64	0.	0.	3.11
14.00	150.00	0.	0.	967.73	430.00	972.77	5.04	40.38	51.27	0.	0.	3.88
14.00	150.00	0.	0.	967.73	550.00	973.22	5.49	51.18	53.64	0.	0.	4.20
14.00	150.00	0.	0.	967.73	810.00	974.05	6.32	74.24	57.99	0.	0.	4.75
14.00	200.00	0.	0.	970.40	230.00	974.40	4.00	17.93	47.23	0.	0.	3.56
16.00	200.00	0.	0.	970.40	430.00	975.35	4.95	35.21	52.71	0.	0.	3.85
16.00	200.00	0.	0.	970.40	550.00	975.80	5.40	45.83	57.94	0.	0.	4.07
16.00	200.00	0.	0.	970.40	810.00	976.62	6.22	69.29	67.60	0.	0.	4.45
18.00	200.00	0.	0.	973.20	230.00	977.35	4.15	20.12	47.99	0.	0.	3.24
18.00	200.00	0.	0.	973.20	430.00	978.22	5.02	36.72	53.48	0.	0.	3.73
18.00	200.00	0.	0.	973.20	550.00	978.64	5.44	46.62	58.30	0.	0.	4.02
18.00	200.00	0.	0.	973.20	810.00	979.39	6.19	68.27	67.23	0.	0.	4.50
20.20	220.00	0.	0.	976.40	230.00	980.45	4.05	18.60	47.47	0.	0.	3.45
20.20	220.00	0.	0.	976.40	430.00	981.36	4.96	35.27	52.74	0.	0.	3.84
20.20	220.00	0.	0.	976.40	550.00	981.78	5.38	45.29	57.68	0.	0.	4.10
20.20	220.00	0.	0.	976.40	810.00	982.55	6.15	66.89	66.71	0.	0.	4.56
22.00	180.00	0.	0.	979.60	230.00	983.51	3.91	16.58	46.73	0.	0.	3.79
22.00	180.00	0.	0.	979.60	430.00	984.36	4.76	31.13	51.30	0.	0.	4.24
22.00	180.00	0.	0.	979.60	550.00	984.76	5.16	39.91	55.09	0.	0.	4.50
22.00	180.00	0.	0.	979.60	810.00	985.49	5.89	59.27	63.74	0.	0.	4.98
24.00	200.00	0.	0.	983.20	230.00	987.19	3.98	17.47	47.06	0.	0.	3.63
24.00	200.00	0.	0.	983.20	430.00	988.03	4.83	32.51	51.67	0.	0.	4.09
24.00	200.00	0.	0.	983.20	550.00	988.43	5.23	41.50	55.88	0.	0.	4.37
24.00	200.00	0.	0.	983.20	810.00	989.15	5.95	60.77	64.34	0.	0.	4.84
25.60	160.00	0.	0.	986.10	230.00	990.38	4.28	15.02	61.98	0.	0.	3.88
25.60	160.00	0.	0.	986.10	430.00	991.13	5.03	29.46	79.14	0.	0.	4.26
25.60	160.00	0.	0.	986.10	550.00	991.49	5.39	38.69	87.43	0.	0.	4.40
25.60	160.00	0.	0.	986.10	810.00	992.13	6.03	60.12	97.52	0.	0.	4.57
26.00	40.00	0.	0.	986.10	230.00	991.43	5.33	10.96	9.00	0.	0.	6.04
26.00	40.00	0.	0.	986.10	430.00	992.08	5.98	13.56	9.00	0.	0.	9.77
26.00	40.00	0.	0.	986.10	550.00	992.17	6.07	13.91	9.00	0.	0.	12.29
26.00	40.00	0.	0.	986.10	810.00	993.47	7.37	19.49	9.00	0.	0.	14.33

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	DEPTH	TQ	TOPWID	STENCL	STENCR	VCH
26.50	50.00	1004.70	994.20	991.20	230.00	1005.60	14.40	738.29	172.57	0.	0.	0.22
26.50	50.00	1004.70	994.20	991.20	430.00	1006.34	15.14	855.07	179.26	0.	0.	0.38
26.50	50.00	1004.70	994.20	991.20	550.00	1006.63	15.43	902.25	181.82	0.	0.	0.46
26.50	50.00	1004.70	994.20	991.20	810.00	1007.13	15.93	989.14	186.37	0.	0.	0.64
28.00	150.00	0.	0.	994.10	170.00	1005.60	11.50	376.13	145.70	0.	0.	0.27
28.00	150.00	0.	0.	994.10	320.00	1006.35	12.25	455.39	152.82	0.	0.	0.45
28.00	150.00	0.	0.	994.10	410.00	1006.64	12.54	487.96	155.55	0.	0.	0.54
28.00	150.00	0.	0.	994.10	600.00	1007.15	13.05	542.85	160.41	0.	0.	0.73
29.50	150.00	0.	0.	997.00	170.00	1005.61	8.61	151.34	110.35	0.	0.	0.54
29.50	150.00	0.	0.	997.00	320.00	1006.36	9.36	197.26	120.93	0.	0.	0.83
29.50	150.00	0.	0.	997.00	410.00	1006.65	9.65	216.88	125.01	0.	0.	1.00
29.50	150.00	0.	0.	997.00	600.00	1007.17	10.17	255.22	132.39	0.	0.	1.29
31.00	150.00	0.	0.	1000.80	170.00	1005.64	4.84	39.21	69.98	0.	0.	1.51
31.00	150.00	0.	0.	1000.80	320.00	1006.43	5.63	62.85	82.69	0.	0.	1.99
31.00	150.00	0.	0.	1000.80	410.00	1006.75	5.95	74.17	87.78	0.	0.	2.26
31.00	150.00	0.	0.	1000.80	600.00	1007.32	6.52	97.35	96.93	0.	0.	2.70
32.00	100.00	0.	0.	1002.50	170.00	1006.01	3.51	13.19	48.15	0.	0.	3.43
32.00	100.00	0.	0.	1002.50	320.00	1006.88	4.38	28.28	62.55	0.	0.	3.62
32.00	100.00	0.	0.	1002.50	410.00	1007.25	4.75	36.81	68.46	0.	0.	3.81
32.00	100.00	0.	0.	1002.50	600.00	1007.89	5.39	54.89	78.78	0.	0.	4.14
33.00	100.00	0.	0.	1004.20	170.00	1007.70	3.50	12.97	47.74	0.	0.	3.47
33.00	100.00	0.	0.	1004.20	320.00	1008.36	4.16	23.91	59.13	0.	0.	4.11
33.00	100.00	0.	0.	1004.20	410.00	1008.70	4.50	30.78	64.38	0.	0.	4.36
33.00	100.00	0.	0.	1004.20	600.00	1009.29	5.09	45.66	73.81	0.	0.	4.74
34.00	100.00	0.	0.	1005.90	170.00	1009.40	3.50	13.12	48.02	0.	0.	3.44
34.00	100.00	0.	0.	1005.90	320.00	1010.10	4.20	24.76	59.82	0.	0.	4.01
34.00	100.00	0.	0.	1005.90	410.00	1010.43	4.53	31.68	65.02	0.	0.	4.26
34.00	100.00	0.	0.	1005.90	600.00	1011.00	5.10	46.16	74.09	0.	0.	4.71
35.00	100.00	0.	0.	1007.60	170.00	1011.10	3.50	12.95	47.69	0.	0.	3.48
35.00	100.00	0.	0.	1007.60	320.00	1011.80	4.20	24.37	59.51	0.	0.	4.06
35.00	100.00	0.	0.	1007.60	410.00	1012.12	4.52	31.36	64.79	0.	0.	4.30
35.00	100.00	0.	0.	1007.60	600.00	1012.69	5.09	46.04	74.03	0.	0.	4.71
37.00	200.00	0.	0.	1011.30	170.00	1015.06	3.76	11.06	14.43	0.	0.	3.98
37.00	200.00	0.	0.	1011.30	320.00	1016.15	4.85	18.42	39.91	0.	0.	5.26
37.00	200.00	0.	0.	1011.30	410.00	1016.55	5.25	22.90	56.53	0.	0.	5.76
37.00	200.00	0.	0.	1011.30	600.00	1017.13	5.83	33.27	75.12	0.	0.	6.31

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
2.200	230.000	937.556	0.	0.	0.	47.965	0.	0.
2.200	430.000	938.373	0.815	0.	0.	62.329	-14.364	0.
2.200	550.000	938.755	0.382	0.	0.	69.058	-21.093	0.
2.200	810.000	939.429	0.674	0.	0.	83.825	-35.860	0.
2.700	230.000	939.131	0.	1.574	0.	9.000	0.	50.000
2.700	430.000	940.556	1.425	2.183	0.	9.000	0.	50.000
2.700	550.000	941.274	0.718	2.519	0.	9.000	0.	50.000
2.700	810.000	942.725	1.451	3.297	0.	9.000	0.	50.000
3.200	230.000	952.448	0.	13.317	0.	9.000	0.	50.000
3.200	430.000	959.686	7.239	19.131	0.	226.714	-217.714	50.000
3.200	550.000	960.018	0.332	18.744	0.	227.899	-218.899	50.000

3,200	810,000	960,568	0,550	17,843	0,	229,166	-220,166	50,000
3,500	230,000	952,517	0,	0,069	0,	157,815	0,	30,000
3,500	430,000	959,687	7,170	0,000	0,	202,157	-44,341	30,000
3,500	550,000	960,018	0,332	0,000	0,	207,230	-49,414	30,000
3,500	810,000	960,568	0,550	0,000	0,	222,638	-64,823	30,000
5,500	230,000	952,519	0,	0,002	0,	136,939	0,	200,000
5,500	430,000	959,687	7,168	0,001	0,	174,169	-37,230	200,000
5,500	550,000	960,019	0,332	0,001	0,	176,005	-39,066	200,000
5,500	810,000	960,571	0,551	0,003	0,	179,053	-42,114	200,000
7,400	230,000	952,526	0,	0,007	0,	68,404	0,	190,000
7,400	430,000	959,690	7,164	0,003	0,	154,887	-86,483	190,000
7,400	550,000	960,023	0,333	0,004	0,	156,009	-87,605	190,000
7,400	810,000	960,578	0,555	0,007	0,	157,875	-89,470	190,000
8,000	230,000	952,786	0,	0,260	0,	32,857	0,	60,000
8,000	430,000	959,694	6,908	0,004	0,	141,436	-108,579	60,000
8,000	550,000	960,029	0,335	0,005	0,	143,672	-110,815	60,000
8,000	810,000	960,587	0,558	0,009	0,	147,394	-114,537	60,000
9,000	230,000	956,486	0,	3,700	0,	33,698	0,	100,000
9,000	430,000	959,716	3,230	0,022	0,	91,441	-57,743	100,000
9,000	550,000	960,059	0,343	0,031	0,	97,030	-63,331	100,000
9,000	810,000	960,638	0,578	0,051	0,	106,683	-72,985	100,000
10,000	230,000	959,959	0,	3,473	0,	42,976	0,	100,000
10,000	430,000	960,154	0,195	0,438	0,	43,998	-1,022	100,000
10,000	550,000	960,531	0,377	0,471	0,	45,932	-2,957	100,000
10,000	810,000	961,271	0,740	0,633	0,	49,834	-6,858	100,000
11,000	230,000	963,498	0,	3,539	0,	41,683	0,	100,000
11,000	430,000	964,612	1,113	4,458	0,	48,232	-6,549	100,000
11,000	550,000	964,940	0,329	4,409	0,	49,993	-8,310	100,000
11,000	810,000	965,516	0,576	4,245	0,	52,977	-11,294	100,000
12,000	230,000	967,228	0,	3,730	0,	42,812	0,	100,000
12,000	430,000	967,729	0,500	3,117	0,	45,481	-2,649	100,000
12,000	550,000	968,111	0,383	3,171	0,	47,441	-4,629	100,000
12,000	810,000	968,827	0,716	3,312	0,	51,191	-8,380	100,000
12,500	230,000	969,008	0,	1,780	0,	42,261	0,	50,000
12,500	430,000	969,861	0,853	2,133	0,	47,034	-4,772	50,000
12,500	550,000	970,196	0,335	2,085	0,	48,767	-6,506	50,000
12,500	810,000	970,805	0,609	1,978	0,	51,926	-9,665	50,000
14,000	230,000	971,888	0,	2,879	0,	46,644	0,	150,000
14,000	430,000	972,766	0,878	2,904	0,	51,268	-4,625	150,000
14,000	550,000	973,224	0,458	3,028	0,	53,644	-7,000	150,000
14,000	810,000	974,054	0,830	3,249	0,	57,985	-11,341	150,000
16,000	230,000	974,396	0,	2,508	0,	47,229	0,	200,000
16,000	430,000	975,353	0,958	2,588	0,	52,705	-5,477	200,000
16,000	550,000	975,797	0,444	2,574	0,	57,936	-10,707	200,000
16,000	810,000	976,619	0,821	2,564	0,	67,602	-20,373	200,000
18,000	230,000	977,350	0,	2,954	0,	47,989	0,	200,000
18,000	430,000	978,225	0,875	2,872	0,	53,483	-5,494	200,000
18,000	550,000	978,635	0,410	2,838	0,	58,302	-10,312	200,000
18,000	810,000	979,390	0,754	2,771	0,	67,226	-19,237	200,000
20,200	230,000	980,447	0,	3,098	0,	47,467	0,	220,000
20,200	430,000	981,359	0,912	3,134	0,	52,737	-5,270	220,000
20,200	550,000	981,783	0,424	3,148	0,	57,685	-10,218	220,000
20,200	810,000	982,546	0,764	3,157	0,	66,707	-19,240	220,000

FORM 1451 (REV. 11-15-58) UNITED STATES GOVERNMENT PRINTING OFFICE: 1959 O - 348,000

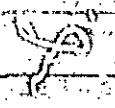
22,000	230,000	983,511	0.	3,064	0.	46,735	0.	180,000
22,000	430,000	984,361	0.849	3,001	0.	51,303	-4,568	180,000
22,000	550,000	984,764	0.403	2,981	0.	55,092	-8,358	180,000
22,000	810,000	985,490	0.726	2,944	0.	63,740	-17,006	180,000
24,000	230,000	987,178	0.	3,667	0.	47,063	0.	200,000
24,000	430,000	988,029	0.851	3,669	0.	51,672	-4,609	200,000
24,000	550,000	988,431	0.402	3,667	0.	55,878	-8,815	200,000
24,000	810,000	989,147	0.716	3,657	0.	64,339	-17,275	200,000
25,600	230,000	990,379	0.	3,201	0.	61,975	0.	160,000
25,600	430,000	991,132	0.753	3,103	0.	79,142	-17,166	160,000
25,600	550,000	991,492	0.360	3,061	0.	87,434	-25,459	160,000
25,600	810,000	992,128	0.636	2,981	0.	97,520	-35,544	160,000
26,000	230,000	991,429	0.	1,049	0.	9,000	0.	40,000
26,000	430,000	992,081	0.653	0,949	0.	9,000	0.	40,000
26,000	550,000	992,167	0.086	0,675	0.	9,000	0.	40,000
26,000	810,000	993,474	1.307	1,347	0.	9,000	0.	40,000
26,500	230,000	1005,599	0.	14,170	0.	172,574	0.	50,000
26,500	430,000	1006,344	0.745	14,262	0.	179,256	-6,682	50,000
26,500	550,000	1006,629	0.285	14,462	0.	181,820	-9,246	50,000
26,500	810,000	1007,135	0.505	13,660	0.	186,367	-13,793	50,000
28,000	170,000	1005,600	0.	0,002	0.	145,702	0.	150,000
28,000	320,000	1006,348	0.748	0,005	0.	152,822	-7,120	150,000
28,000	410,000	1006,636	0.288	0,007	0.	155,554	-9,852	150,000
28,000	600,000	1007,147	0.511	0,012	0.	160,411	-14,709	150,000
29,500	170,000	1005,606	0.	0,005	0.	110,349	0.	150,000
29,500	320,000	1006,360	0.755	0,012	0.	120,931	-10,582	150,000
29,500	410,000	1006,653	0.292	0,017	0.	125,009	-14,660	150,000
29,500	600,000	1007,174	0.522	0,028	0.	132,390	-22,041	150,000
31,000	170,000	1005,643	0.	0,037	0.	69,977	0.	150,000
31,000	320,000	1006,434	0.791	0,074	0.	82,691	-12,715	150,000
31,000	410,000	1006,751	0.317	0,098	0.	87,780	-17,803	150,000
31,000	600,000	1007,320	0.569	0,145	0.	96,926	-26,950	150,000
32,000	170,000	1006,013	0.	0,370	0.	48,154	0.	100,000
32,000	320,000	1006,879	0.866	0,445	0.	62,552	-14,399	100,000
32,000	410,000	1007,247	0.368	0,496	0.	68,461	-20,308	100,000
32,000	600,000	1007,890	0.643	0,570	0.	78,780	-30,627	100,000
33,000	170,000	1007,700	0.	1,687	0.	47,743	0.	100,000
33,000	320,000	1008,363	0.663	1,484	0.	59,129	-11,387	100,000
33,000	410,000	1008,695	0.333	1,448	0.	64,378	-16,636	100,000
33,000	600,000	1009,286	0.590	1,396	0.	73,806	-26,064	100,000
34,000	170,000	1009,401	0.	1,701	0.	48,017	0.	100,000
34,000	320,000	1010,104	0.703	1,741	0.	59,816	-11,799	100,000
34,000	410,000	1010,430	0.326	1,734	0.	65,017	-17,000	100,000
34,000	600,000	1010,999	0.589	1,713	0.	74,091	-26,073	100,000
35,000	170,000	1011,101	0.	1,700	0.	47,694	0.	100,000
35,000	320,000	1011,798	0.697	1,695	0.	59,507	-11,812	100,000
35,000	410,000	1012,120	0.322	1,690	0.	64,788	-17,094	100,000
35,000	600,000	1012,693	0.573	1,694	0.	74,025	-26,331	100,000
37,000	170,000	1015,055	0.	3,954	0.	14,435	0.	200,000
37,000	320,000	1016,150	1.094	4,351	0.	39,906	-25,471	200,000
37,000	410,000	1016,549	0.399	4,429	0.	56,525	-42,091	200,000
37,000	600,000	1017,134	0.585	4,442	0.	75,118	-60,683	200,000

DATA FOR LAST CROSS SECTION

PROFILES TYPE ENCL TARGET TOP WIDTH TOP WIDTH

AREA-ACRES AREA-DIFF

Profile	Type	Encl	Target	Top Width	Top Width
1	0.	0.	5.185	0.	
2	0.	0.	6.761	1.576	
3	0.	0.	7.094	1.909	
4	0.	0.	7.683	2.498	



Dutchmans Creek

Floodway

100-YR STRT WSEL

(For elevations)

T1 ELKIN NORTH CAROLINA
 T2 FLOOD INSURANCE STUDY
 T3 DUTCHMANS CREEK 100-YR NATURAL

J1	TCHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-0	4	-0	-0	-0	-0	-0	-0	895,500	-0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHN	ITRACE
	1,000	-0	-1,000	5,000	50,000	-0	-0	-0	-0	-0
J3	-3,000	31,000	40,000	41,000	42,000	43,000	1,000	2,000	3,000	4,000
J3	53,000	54,000	38,000	38,000	1,000	7,000	8,000	26,000	13,000	55,000
J3	14,000	26,000	15,000	56,000	25,000	38,000	-0	-0	-0	-0
NC	.060	.060	.100	.300	.500	-0	-0	-0	-0	-0
QT	5,000	710,000	1220,000	1460,000	1460,000	2170,000	-0	-0	-0	-0
ET	-0	-0	-0	-0	10,400	-0	-0	-0	-0	-0
X1	9,500	50,000	302,000	432,000	-0	-0	-0	-0	-0	-0
BT	2,000	302,000	891,500	888,900	432,000	891,500	888,600	-0	-0	-0
GR	910,000	0	905,000	25,000	900,000	50,000	892,000	165,000	891,500	302,000
GR	885,500	302,000	880,000	314,000	888,800	314,000	888,800	315,000	880,000	315,000
GR	878,400	328,000	888,800	328,000	888,800	329,000	878,400	329,000	877,300	340,000
GR	888,800	340,000	888,800	341,000	877,300	341,000	877,000	353,000	888,700	353,000
GR	888,700	354,000	877,000	354,000	874,400	368,000	888,700	368,000	888,700	369,000
GR	874,400	369,000	874,000	374,000	874,800	382,000	888,700	382,000	888,700	383,000
GR	874,800	383,000	877,500	394,000	888,600	394,000	888,600	395,000	877,500	395,000
GR	878,500	408,000	888,600	408,000	888,600	409,000	878,500	409,000	882,500	420,000
GR	888,600	420,000	888,600	421,000	882,500	421,000	886,000	431,000	891,500	432,000
GR	891,500	490,000	895,000	550,000	900,000	560,000	905,000	565,000	910,000	590,000
X1	9,700	-0	-0	-0	20,000	20,000	20,000	-0	-0	-0
X1	10,000	38,000	316,000	395,000	30,000	30,000	30,000	-0	-0	-0
BT	6,000	297,000	888,900	0	316,000	889,100	886,100	345,000	889,400	886,700
BT	346,000	889,400	865,600	395,000	889,300	885,500	410,000	889,100	0	-0
GR	910,000	25,000	905,000	55,000	900,000	70,000	895,000	85,000	890,300	150,000
GR	889,000	200,000	888,500	250,000	888,900	297,000	888,500	297,000	887,500	300,000
GR	881,200	316,000	878,300	327,000	879,000	330,000	886,400	330,000	886,400	331,000
GR	879,000	331,000	882,600	336,000	880,800	345,000	885,600	345,000	885,600	346,000
GR	880,800	346,000	879,000	350,000	874,200	355,000	874,000	360,000	874,200	365,000
GR	878,200	370,000	885,500	370,000	885,500	371,000	878,200	371,000	882,200	395,000
GR	884,000	398,000	884,400	410,000	889,100	410,000	889,100	450,000	889,600	475,000
GR	895,000	495,000	900,000	500,000	910,000	520,000	-0	-0	-0	-0
X1	10,300	-0	-0	-0	30,000	30,000	30,000	-0	-0	-0
A X1	10,800	27,000	261,000	282,000	50,000	50,000	50,000	-0	-0	-0
GR	899,200	0	895,700	20,000	894,800	23,000	895,400	26,000	895,400	37,000
GR	894,100	49,000	893,800	50,000	885,800	64,000	885,700	76,000	882,400	84,000
GR	880,900	100,000	879,900	150,000	879,200	200,000	879,300	250,000	879,900	261,000
GR	875,200	264,000	875,100	270,000	875,200	275,000	878,000	282,000	882,400	296,000
GR	882,700	300,000	883,300	314,000	893,600	338,000	892,800	350,000	892,300	368,000
GR	897,400	375,000	915,000	400,000	-0	-0	-0	-0	-0	-0

	X1	13,000	-0	-0	-0	220,000	220,000	220,000	-0	1,200	-0
	NC	,100	,100	,100	,300	,500	-0	-0	-0	-0	-0
B	X1	17,000	21,000	384,000	400,000	400,000	400,000	400,000	-0	-0	-0
	GR	915,000	0	897,900	100,000	896,100	107,000	892,200	113,000	893,300	121,000
	GR	887,600	131,000	885,200	150,000	883,500	200,000	883,300	250,000	882,600	300,000
	GR	882,500	350,000	882,800	384,000	878,500	387,000	878,300	390,000	878,500	395,000
	GR	883,100	400,000	881,800	406,000	883,300	450,000	883,700	458,000	898,800	490,000
	GR	915,000	540,000	-0	-0	-0	-0	-0	-0	-0	-0
C	X1	19,500	15,000	113,000	129,000	250,000	250,000	250,000	-0	-0	-0
	GR	915,000	0	906,700	50,000	906,400	55,000	885,400	100,000	884,500	113,000
	GR	881,600	118,000	880,800	123,000	881,600	128,000	885,400	129,000	882,900	150,000
	GR	884,600	159,000	886,100	200,000	890,400	250,000	900,200	300,000	915,000	350,000
	X1	24,000	-0	-0	-0	450,000	450,000	450,000	-0	5,000	-0
D	X1	31,500	15,000	220,000	247,000	750,000	750,000	750,000	-0	-0	-0
	GR	914,200	0	904,500	50,000	898,400	75,000	897,700	100,000	897,500	150,000
	GR	897,400	200,000	897,000	220,000	894,200	221,000	894,600	230,000	894,200	238,000
	GR	894,600	246,000	896,000	247,000	896,400	250,000	902,600	260,000	915,000	290,000
	QT	5,000	710,000	1210,000	1440,000	1440,000	2110,000	-0	-0	-0	-0
E	X1	34,500	13,000	96,000	112,000	300,000	300,000	300,000	-0	-0	-0
	GR	925,900	0	914,100	50,000	901,200	89,000	900,400	94,000	898,100	96,000
	GR	897,600	102,000	898,200	108,000	900,500	112,000	901,900	150,000	904,000	169,000
	GR	911,800	200,000	914,100	208,000	925,000	250,000	-0	-0	-0	-0
	X1	37,000	-0	-0	-0	250,000	250,000	250,000	-0	3,300	-0
F	X1	39,000	12,000	100,000	117,000	200,000	200,000	200,000	-0	-0	-0
	GR	934,100	0	915,700	50,000	907,900	73,000	907,500	100,000	904,500	103,000
	GR	904,100	104,000	903,600	111,000	904,100	115,000	905,800	117,000	907,600	150,000
	GR	911,700	200,000	922,800	240,000	-0	-0	-0	-0	-0	-0
G	X1	40,500	13,000	50,000	76,000	150,000	150,000	150,000	-0	-0	-0
	GR	919,400	0	916,800	12,000	912,300	19,000	908,400	39,000	908,300	50,000
	GR	905,500	0,000	904,700	67,000	904,400	70,000	904,700	73,000	908,700	76,000
	GR	910,600	100,000	916,900	150,000	926,400	200,000	-0	-0	-0	-0
	X1	45,000	-0	-0	-0	450,000	450,000	450,000	-0	5,200	-0
H	X1	51,000	11,000	103,000	126,000	600,000	600,000	600,000	-0	-0	-0
	GR	938,100	0	923,800	27,000	920,100	50,000	919,700	100,000	919,700	103,000
	GR	917,100	105,000	916,600	109,000	917,100	116,000	921,300	126,000	924,500	150,000
	GR	929,700	193,000	-0	-0	-0	-0	-0	-0	-0	-0
	QT	5,000	600,000	1030,000	1240,000	1240,000	1800,000	-0	-0	-0	-0
I	X1	57,000	12,000	312,000	330,000	600,000	600,000	600,000	-0	-0	-0
	GR	950,000	0	927,800	200,000	927,400	250,000	926,900	300,000	927,400	312,000
	GR	924,900	314,000	924,500	320,000	924,900	324,000	926,700	330,000	927,200	350,000
	GR	930,200	361,000	947,200	390,000	-0	-0	-0	-0	-0	-0
	X1	61,000	-0	-0	-0	400,000	400,000	400,000	-0	4,700	-0

QT	5,000	480,000	860,000	1040,000	1040,000	1530,000	-0	-0	-0	-0
J	X1	64,000	12,000	235,000	257,000	300,000	300,000	300,000	-0	-0
	GR	952,000	0	942,300	50,000	937,200	100,000	935,900	110,000	935,400
	GR	935,000	200,000	935,400	235,000	933,000	244,000	932,900	247,000	933,000
	GR	944,400	257,000	954,900	280,000	-0	-0	-0	-0	-0
K	X1	69,500	14,000	160,000	174,000	550,000	550,000	550,000	-0	-0
	GR	960,700	0	945,500	50,000	943,400	100,000	944,600	150,000	944,400
	GR	941,700	161,000	941,200	166,000	941,800	170,000	944,300	174,000	944,200
	GR	945,000	225,000	950,100	250,000	954,900	300,000	960,600	340,000	-0
L	X1	73,000	12,000	106,000	121,000	350,000	350,000	350,000	-0	-0
	GR	965,100	0	958,700	50,000	953,300	92,000	950,000	100,000	949,400
	GR	947,500	108,000	947,200	112,000	947,500	116,000	950,100	121,000	952,200
	GR	953,900	164,000	967,400	200,000	-0	-0	-0	-0	-0
	X1	75,000	-0	-0	-0	200,000	200,000	200,000	-0	7,200
	X1	77,000	-0	-0	-0	200,000	200,000	200,000	-0	7,200
	X1	79,000	-0	-0	-0	200,000	200,000	200,000	-0	7,200
M	X1	81,000	10,000	54,000	70,000	200,000	200,000	200,000	-0	-0
	GR	993,900	0	979,100	22,000	978,300	50,000	977,600	54,000	976,200
	GR	975,900	60,000	976,200	64,000	980,200	70,000	979,400	98,000	990,100
	X1	65,000	-0	-0	-0	400,000	400,000	400,000	-0	3,600
N	X1	90,000	15,000	105,000	122,000	600,000	600,000	600,000	-0	-0
	GR	1007,200	0	999,000	50,000	997,800	58,000	989,900	78,000	989,000
	GR	988,400	105,000	986,200	109,000	986,000	113,000	986,200	119,000	989,500
	GR	988,600	150,000	988,900	200,000	993,500	250,000	996,000	266,000	1005,700
O	X1	45,000	14,000	170,000	185,000	500,000	500,000	500,000	-0	-0
	GR	1004,200	0	997,400	50,000	993,800	88,000	993,200	100,000	993,900
	GR	992,900	170,000	991,100	174,000	990,800	176,000	990,600	179,000	990,800
	GR	993,800	185,000	993,300	200,000	995,700	250,000	1009,100	253,000	-0
	QT	5,000	440,000	770,000	900,000	900,000	1340,000	-0	-0	-0
P	X1	98,000	14,000	144,000	163,000	300,000	300,000	300,000	-0	-0
	GR	1018,200	0	1012,400	50,000	1006,000	100,000	1001,500	144,000	995,800
	GR	995,500	152,000	995,800	155,000	999,300	163,000	999,300	200,000	999,800
	GR	1003,400	300,000	1010,000	350,000	1014,300	384,000	1014,700	400,000	-0
	X1	101,000	-0	-0	-0	300,000	300,000	300,000	-0	5,100
	QT	5,000	340,000	610,000	760,000	760,000	1100,000	-0	-0	-0
Q	X1	105,000	15,000	229,000	241,000	400,000	400,000	400,000	-0	-0
	GR	1031,200	0	1028,300	50,000	1024,100	100,000	1017,700	150,000	1013,700
	GR	1012,700	229,000	1007,500	235,000	1007,400	238,000	1007,500	240,000	1009,100
	GR	1011,700	280,000	1011,400	300,000	1014,300	339,000	1019,100	350,000	1031,000

 INTERACTIVE HEC2 VERSION UPDATED SEPT 1976
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09,10
 MODIFICATIONS 50,51,52,53,54,55,56,57,58,59

T1 ELKIN NORTH CAROLINA
 T2 FLOOD INSURANCE STUDY
 T3 DUTCHMANS CREEK FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-0	5.	-0	-0	-0	-0	-0	-0	896,500	-0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15,000	-0	-1,000	5,000	50,000	-0	-0	-0	-0	-0

SUMMARY PRINTOUT

DUTCHMANS CREEK 100-YR N

SECNO	ELENC	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIBS	EG	TOPWID	SSTA	ENDBT	SECNO
9.50	0	891.50	888.90	874.00	1460.00	895.50	0	895.51	436.31	114.69	551.00	9.50
9.50	100000.00	891.50	888.90	874.00	1460.00	896.50	0	896.51	273.45	199.46	472.91	9.50
9.70	0	0	0	874.00	1460.00	895.51	0	895.51	436.37	114.63	551.01	9.70
9.70	100000.00	0	0	874.00	1460.00	896.51	0	896.51	260.49	206.26	466.75	9.70
10.00	0	888.90	886.70	874.00	1460.00	895.51	0	895.51	412.03	83.48	495.51	10.00
10.00	100000.00	888.90	886.70	874.00	1460.00	896.51	0	896.51	293.55	157.80	451.35	10.00
10.30	0	0	0	874.00	1460.00	895.51	0	895.51	412.04	83.47	495.51	10.30
10.30	100000.00	0	0	874.00	1460.00	896.51	0	896.52	277.88	167.88	445.76	10.30
10.80	0	0	0	873.10	1460.00	895.51	0	895.52	351.79	20.62	372.41	10.80
10.80	100000.00	0	0	875.10	1460.00	896.52	0	896.52	232.00	81.51	313.51	10.80
13.00	0	0	0	876.30	1460.00	895.51	0	895.52	323.77	47.00	370.77	13.00
13.00	100000.00	0	0	876.30	1460.00	896.52	0	896.52	227.86	80.68	308.54	13.00
17.00	0	0	0	878.30	1460.00	895.52	0	895.52	375.16	107.89	483.05	17.00
17.00	100000.00	0	0	878.30	1460.00	896.52	0	896.52	301.53	150.00	451.54	17.00
19.50	0	0	0	880.80	1460.00	895.53	0	895.54	197.83	78.31	276.14	19.50
19.50	100000.00	0	0	880.80	1460.00	896.53	0	896.54	137.15	100.24	237.39	19.50
24.00	0	0	0	885.80	1460.00	895.69	0	895.75	162.83	88.66	251.49	24.00
24.00	100000.00	0	0	885.80	1460.00	896.68	0	896.76	87.43	112.67	200.09	24.00
31.50	0	0	0	894.20	1460.00	898.63	0	899.31	180.73	73.20	253.93	31.50
31.50	100000.00	0	0	894.20	1460.00	899.79	0	900.62	51.79	195.21	247.00	31.50
34.50	0	0	0	897.60	1440.00	904.87	0	905.21	94.59	77.89	172.48	34.50
34.50	100000.00	0	0	897.60	1440.00	906.46	0	906.81	48.47	96.00	144.47	34.50
37.00	0	0	0	900.90	1440.00	908.11	0	908.46	94.13	78.09	172.22	37.00
37.00	100000.00	0	0	900.90	1440.00	909.60	0	909.97	47.81	96.00	143.81	37.00
39.00	0	0	0	903.60	1440.00	910.67	0	910.91	122.60	64.83	187.43	39.00
39.00	100000.00	0	0	903.60	1440.00	911.91	0	912.24	56.59	91.22	147.80	39.00
40.50	0	0	0	904.40	1440.00	912.37	0	912.72	95.13	18.90	114.02	40.50
40.50	100000.00	0	0	904.40	1440.00	913.45	0	913.93	41.96	40.82	82.79	40.50
45.00	0	0	0	909.60	1440.00	917.70	0	918.03	96.41	18.69	115.10	45.00
45.00	100000.00	0	0	909.60	1440.00	918.72	0	919.16	43.60	40.28	83.88	45.00
51.00	0	0	0	916.60	1440.00	923.94	0	924.16	119.12	26.72	145.85	51.00
51.00	100000.00	0	0	916.60	1440.00	925.08	0	925.36	57.80	68.20	126.00	51.00
57.00	0	0	0	924.50	1240.00	929.76	0	929.89	177.05	182.34	359.39	57.00
57.00	100000.00	0	0	924.50	1240.00	930.90	0	931.10	83.17	246.83	330.00	57.00
61.00	0	0	0	929.20	1240.00	934.24	0	934.41	174.26	184.32	358.58	61.00
61.00	100000.00	0	0	929.20	1240.00	935.34	0	935.59	79.61	250.39	330.00	61.00

SECNO	ELENC	ELTRD	ELLC	ELMTN	Q	CWSEL	CRWS	EG	TOPWID	SSTA	ENDBT	SECNO
64.00	0	0	0	932.90	1040.00	937.74	0	937.86	158.23	94.68	252.91	64.00
64.00	100000.00	0	0	932.90	1040.00	938.74	0	938.97	79.10	174.46	253.56	64.00
69.50	0	0	0	941.20	1040.00	945.84	0	946.05	180.23	48.88	229.11	69.50
69.50	100000.00	0	0	941.20	1040.00	946.84	0	947.21	69.32	104.68	174.00	69.50
73.00	0	0	0	947.20	1040.00	953.66	0	954.12	72.78	89.22	162.00	73.00
73.00	100000.00	0	0	947.20	1040.00	954.74	0	955.39	31.93	104.60	136.53	73.00
75.00	0	0	0	954.40	1040.00	959.90	0	960.92	60.66	93.46	154.11	75.00
75.00	100000.00	0	0	954.40	1040.00	961.11	0	962.59	20.68	106.00	126.68	75.00
77.00	0	0	0	961.60	1040.00	967.86	0	968.40	69.47	90.83	160.30	77.00
77.00	100000.00	0	0	961.60	1040.00	969.18	0	969.90	29.42	105.45	134.88	77.00
79.00	0	0	0	968.80	1040.00	974.47	0	975.35	62.51	93.03	155.55	79.00
79.00	100000.00	0	0	968.80	1040.00	975.59	0	976.86	22.70	106.00	128.70	79.00
81.00	0	0	0	975.90	1040.00	981.52	0	981.90	85.69	18.39	104.08	81.00
81.00	100000.00	0	0	975.90	1040.00	982.82	0	983.32	40.49	35.30	75.79	81.00
85.00	0	0	0	979.50	1040.00	986.42	0	986.58	91.30	16.47	107.77	85.00
85.00	100000.00	0	0	979.50	1040.00	987.44	0	987.64	56.86	30.37	87.23	85.00
90.00	0	0	0	986.00	1040.00	991.37	0	991.51	152.51	74.29	226.80	90.00
90.00	100000.00	0	0	986.00	1040.00	992.42	0	992.62	70.72	105.00	175.72	90.00
95.00	0	0	0	990.60	1040.00	996.02	0	996.13	186.42	64.59	251.02	95.00
95.00	100000.00	0	0	990.60	1040.00	997.08	0	997.24	83.43	111.44	194.87	95.00
98.00	0	0	0	995.50	900.00	1000.70	1000.61	1001.22	117.68	144.84	262.53	98.00
98.00	100000.00	0	0	995.50	900.00	1001.54	0	1002.54	36.02	144.00	180.02	98.00
101.00	0	0	0	1000.60	900.00	1006.95	0	1007.08	137.78	140.63	278.40	101.00
101.00	100000.00	0	0	1000.60	900.00	1008.16	0	1008.36	58.28	144.00	202.28	101.00
105.00	0	0	0	1007.40	760.00	1013.09	0	1013.45	104.89	217.79	322.68	105.00
105.00	100000.00	0	0	1007.40	760.00	1014.01	0	1014.68	30.88	229.00	259.88	105.00
107.50	0	0	0	1011.70	760.00	1018.09	0	1018.25	133.14	198.94	332.08	107.50
107.50	100000.00	0	0	1011.70	760.00	1019.31	0	1019.54	45.88	229.00	274.88	107.50
110.20	0	0	0	1016.20	760.00	1021.99	0	1022.21	96.33	94.98	191.31	110.20
110.20	100000.00	0	0	1016.20	760.00	1023.04	0	1023.39	37.83	152.17	190.00	110.20
110.50	0	0	0	1016.20	760.00	1022.47	0	1023.50	22.00	168.00	190.00	110.50
110.50	100000.00	0	0	1016.20	760.00	1023.62	0	1024.26	22.00	168.00	190.00	110.50
111.00	0	1025.50	1020.50	1018.30	760.00	1028.67	0	1028.68	210.34	43.60	253.94	111.00
111.00	100000.00	999999.00	0	1018.30	760.00	1029.82	0	1029.84	103.02	83.97	186.99	111.00
111.40	0	0	0	1019.70	760.00	1028.67	0	1028.70	178.53	56.26	234.79	111.40
111.40	100000.00	0	0	1019.70	760.00	1029.82	0	1029.86	81.14	93.10	174.24	111.40
114.00	0	0	0	1025.50	760.00	1031.61	1031.61	1034.45	10.00	64.00	74.00	114.00
114.00	100000.00	0	0	1025.50	760.00	1031.61	1031.61	1034.45	10.00	64.00	74.00	114.00

Use
 107.50
 110.20
 110.50
 111.00
 111.40
 *

SECNO	ELENCL	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	TOPWID	SSTA	ENDBT	SECNO
115.00	0	1054.50	1033.30	1028.80	760.00	1055.52	0	1055.52	193.00	0	193.00	115.00
115.00	100000.00	999999.00	0	1028.80	760.00	1055.51	0	1055.51	151.93	21.67	173.61	115.00
116.00	0	0	0	1031.00	760.00	1055.52	0	1055.52	191.22	1.78	193.00	116.00
116.00	100000.00	0	0	1031.00	760.00	1055.51	0	1055.51	138.81	28.46	167.27	116.00
119.00	0	0	0	1039.10	760.00	1055.52	0	1055.52	195.53	17.43	212.97	119.00
119.00	100000.00	0	0	1039.10	760.00	1055.51	0	1055.52	98.28	70.63	168.91	119.00

SUMMARY PRINTOUT

DUTCHMANS CREEK 100-YR N

SECNO	CWSEL	VOL	DEPTH	VCH	QLOB	VLOR	QCH	VCH	QROR	VROB	AREA	SECNO
9.50	895.50	0	21.50	.41	458.37	.76	728.08	.41	273.55	.74	2730.55	9.50
9.50	896.50	0	22.50	.43	456.80	.93	818.00	.43	185.20	.91	2589.57	9.50
9.70	895.51	1.34	21.51	.46	308.08	.51	968.04	.46	183.88	.50	3088.19	9.70
9.70	896.51	1.26	22.51	.47	287.68	.62	1067.78	.47	104.54	.60	2885.27	9.70
10.00	895.51	3.35	21.51	.31	881.83	.68	311.87	.31	266.30	.60	2759.25	10.00
10.00	896.51	3.14	22.51	.32	949.45	.77	351.61	.32	158.94	.58	2595.93	10.00
10.30	895.51	5.43	21.51	.39	638.63	.48	507.81	.39	313.56	.48	3272.04	10.30
10.30	896.51	5.08	22.51	.41	661.71	.55	560.04	.41	238.25	.53	3021.55	10.30
10.80	895.51	9.70	20.41	.25	1154.53	.38	101.61	.25	203.86	.29	4175.98	10.80
10.80	896.52	9.04	21.42	.26	1199.49	.40	110.44	.26	150.06	.32	3873.17	10.80
13.00	895.51	29.79	19.21	.27	1162.27	.41	105.86	.27	191.86	.32	3777.94	13.00
13.00	896.52	27.77	20.22	.28	1213.77	.44	114.33	.28	131.90	.36	3544.57	13.00
17.00	895.52	66.79	17.22	.36	1070.94	.34	91.34	.36	297.72	.33	4282.11	17.00
17.00	896.52	62.89	18.22	.36	1099.07	.35	98.98	.36	261.95	.36	4105.12	17.00
19.50	895.53	83.84	14.73	1.00	194.82	.79	217.09	1.00	1048.09	.88	1657.41	19.50
19.50	896.53	79.11	15.73	1.04	100.12	.68	243.53	1.04	1116.35	.96	1545.68	19.50
24.00	895.69	96.46	9.89	2.24	177.87	1.70	314.19	2.24	967.94	1.79	786.23	24.00
24.00	896.68	90.44	10.88	2.41	.68	.29	377.07	2.41	1082.25	2.21	648.17	24.00
31.50	898.84	105.94	4.64	6.83	601.38	3.26	804.22	6.83	54.40	4.28	314.77	31.50
31.50	899.79	97.79	5.59	7.84	336.28	5.33	1123.72	7.84	0	0	206.49	31.50
34.50	904.87	108.18	7.27	5.74	180.39	3.47	608.79	5.74	650.81	3.66	335.87	34.50
34.50	906.46	99.56	8.86	4.92	0	0	647.04	4.92	792.96	4.55	305.72	34.50
37.00	908.11	110.09	7.21	5.85	179.58	3.53	614.78	5.85	645.64	3.72	329.69	37.00
37.00	909.60	101.28	8.70	5.12	0	0	660.58	5.12	779.42	4.70	294.91	37.00
39.00	910.67	111.73	7.07	4.94	280.02	3.06	528.05	4.94	631.92	3.35	386.77	39.00
39.00	911.91	102.71	8.31	5.22	114.22	2.99	667.98	5.22	657.80	4.05	328.69	39.00
40.50	912.37	112.97	7.97	5.44	290.10	3.43	921.39	5.44	228.51	2.94	331.56	40.50
40.50	913.45	103.75	9.05	5.94	169.21	3.61	1173.16	5.94	97.62	3.21	274.93	40.50
45.00	917.70	116.46	8.10	5.24	296.88	3.35	905.44	5.24	237.68	2.87	344.52	45.00
45.00	918.72	106.65	9.12	5.76	178.31	3.55	1147.27	5.76	114.42	3.22	285.16	45.00
51.00	923.94	121.63	7.34	4.42	791.38	3.26	603.61	4.42	45.01	1.71	405.58	51.00
51.00	925.08	110.96	8.48	4.55	699.67	3.93	740.32	4.55	0	0	340.56	51.00
57.00	929.76	127.43	5.26	3.82	742.77	2.59	312.02	3.82	185.21	2.71	436.98	57.00
57.00	930.90	115.68	6.40	3.87	844.36	3.46	395.64	3.87	0	0	345.84	57.00
61.00	934.24	131.27	5.04	4.26	725.63	2.80	330.38	4.26	183.99	2.97	398.39	61.00
61.00	935.34	118.71	6.14	4.38	812.72	3.77	427.28	4.38	0	0	312.92	61.00

SECNO	CWSEL	VOL	DEPTH	VCH	QLOB	VLOB	QCH	VCH	QROB	VROB	AREA	SECNO
64.00	937.71	133.95	4.84	3.24	820.88	2.62	219.12	3.24	0	0	380.71	64.00
64.00	938.71	120.84	5.89	3.60	727.36	3.30	312.64	3.60	0	0	307.07	64.00
69.50	945.84	138.26	4.64	5.02	557.38	3.19	267.45	5.02	215.18	2.91	302.24	69.50
69.50	946.84	124.15	5.68	5.54	668.03	4.48	371.97	5.54	0	0	216.14	69.50
73.00	953.66	140.31	6.46	6.50	181.23	4.50	553.16	6.50	305.61	3.75	206.89	73.00
73.00	954.74	125.71	7.54	7.14	16.82	2.28	724.13	7.14	299.04	4.72	172.28	73.00
75.00	959.90	141.11	5.50	9.32	167.29	6.24	659.95	9.32	212.76	4.63	143.58	75.00
75.00	961.11	126.35	6.71	10.15	0	0	903.78	10.15	136.22	6.64	109.55	75.00
77.00	967.86	141.88	6.26	6.99	177.81	4.81	573.49	6.99	288.70	3.95	192.23	77.00
77.00	969.18	126.98	7.58	7.40	4.06	1.35	754.81	7.40	281.13	4.85	162.94	77.00
79.00	974.47	142.68	5.67	8.69	169.89	5.85	637.64	8.69	232.47	4.48	154.31	79.00
79.00	975.59	127.62	6.79	9.47	0	0	855.00	9.47	185.00	6.63	118.19	79.00
81.00	981.52	143.55	5.62	5.84	445.34	4.55	421.58	5.84	173.08	3.16	224.87	81.00
81.00	982.82	128.33	6.92	6.28	408.75	4.94	582.96	6.28	48.29	3.09	191.29	81.00
85.00	986.42	146.14	6.92	3.73	448.73	3.09	346.26	3.73	245.01	2.42	339.20	85.00
85.00	987.44	130.60	7.94	4.10	418.04	3.29	448.01	4.10	173.95	2.60	303.15	85.00
90.00	991.37	151.00	5.37	3.86	137.89	2.37	306.92	3.86	595.19	2.60	366.29	90.00
90.00	992.42	134.67	6.42	4.01	0	0	390.04	4.01	649.95	3.41	287.78	90.00
95.00	996.02	155.48	5.42	3.54	559.11	2.41	251.16	3.54	229.73	2.03	415.78	95.00
95.00	997.08	138.20	6.48	3.95	613.65	2.97	342.54	3.95	83.81	2.47	327.10	95.00
98.00	1000.70	157.53	5.20	7.14	0	0	450.65	7.14	449.35	3.90	178.22	98.00
98.00	1001.54	139.73	6.04	8.62	0	0	678.05	8.62	221.95	5.82	116.83	98.00
101.00	1006.95	159.26	6.35	3.60	.26	.45	304.51	3.60	595.23	2.50	323.04	101.00
101.00	1008.16	141.01	7.56	3.84	0	0	413.80	3.84	486.19	3.29	255.57	101.00
105.00	1013.09	161.53	5.69	6.15	1.95	.90	312.76	6.15	445.28	3.71	173.18	105.00
105.00	1014.01	142.73	6.61	7.12	0	0	441.33	7.12	318.67	5.73	117.56	105.00
107.50	1018.09	152.77	6.39	4.14	19.52	1.15	245.56	4.14	494.92	2.74	256.76	107.50
107.50	1019.31	143.64	7.61	4.18	0	0	309.12	4.18	450.88	3.59	199.72	107.50
110.20	1021.99	164.22	5.79	4.42	394.24	3.05	365.44	4.42	.32	.82	212.17	110.20
110.20	1023.04	144.76	6.84	5.04	227.08	4.03	532.92	5.04	0	0	162.17	110.20
110.50	1022.47	164.33	6.27	8.16	0	0	760.00	8.16	0	0	93.17	110.50
110.50	1023.62	144.86	7.42	6.41	0	0	760.00	6.41	0	0	118.50	110.50
111.00	1028.67	164.93	10.37	1.55	235.42	1.04	91.84	1.55	432.73	.65	955.92	111.00
111.00	1029.82	145.39	11.52	1.62	204.73	1.29	107.56	1.62	447.70	.76	818.00	111.00
111.40	1028.67	165.68	8.97	2.22	207.45	1.40	113.17	2.22	439.37	.91	683.76	111.40
111.40	1029.82	146.03	10.12	2.38	155.02	1.85	137.73	2.38	467.25	1.10	566.93	111.40
* 114.00	1031.61	167.89	6.11	13.52	0	0	760.00	13.52	0	0	56.23	114.00
* 114.00	1031.61	147.89	6.11	13.53	0	0	760.00	13.53	0	0	56.16	114.00

SECNO	CWSEL	VOL	DEPTH	VCH	QLOB	VLOR	OCH	VCH	QROB	VROB	AREA	SECNO
115.00	1055.52	171.88	26.72	.39	243.83	.28	101.64	.39	414.53	.18	3416.87	115.00
115.00	1055.51	151.54	26.71	.42	236.07	.32	109.00	.42	414.93	.20	3121.72	115.00
116.00	1055.52	179.23	24.52	.45	233.05	.32	107.68	.45	419.27	.21	2992.72	116.00
116.00	1055.51	158.17	24.51	.49	220.74	.38	117.31	.49	421.96	.23	2656.66	116.00
119.00	1055.52	194.79	16.42	.70	520.30	.58	142.49	.70	97.21	.23	1524.84	119.00
119.00	1055.51	171.42	16.41	.80	546.40	.70	160.89	.80	52.71	.26	1190.94	119.00

POSSIBLE ERROR SECNO= 114.00 PROFILE= 1 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO= 114.00 PROFILE= 1 20 TRIALS REQUIRED TO BALANCE WSEL

POSSIBLE ERROR SECNO= 114.00 PROFILE= 2 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO= 114.00 PROFILE= 2 20 TRIALS REQUIRED TO BALANCE WSEL

Dutchmans Creek

Floodway

10-YR STRT WSEL

(For width)

T1 ELKIN NORTH CAROLINA
 T2 FLOOD INSURANCE STUDY
 T3 DUTCHMANS CREEK 100-YR NATURAL

Use Elkin Flood Method 1 run of

Sections 105 thru 119 attached at end of print. Alignment adjusted to permit enforcement. Method 2 used

J1	ICHECK	IND	NINV	IOIR	STRT	METRIC	HVINS	WSEL	FO		
	-0	4	-0	-0	-0	-0	-0	-0	887,200	-0	
J2	NPROF	IPLUT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	1,000	-0	-1,000	5,000	50,000	-0	-0	-0	-0	-0	
J3	-3,000	31,000	40,000	41,000	42,000	43,000	1,000	2,000	3,000	4,000	
J3	53,000	54,000	38,000	38,000	1,000	7,000	8,000	26,000	13,000	55,000	
J3	14,000	26,000	15,000	56,000	25,000	38,000	-0	-0	-0	-0	
NC	.060	.060	.100	.300	.500	-0	-0	-0	-0	-0	
QT	5,000	710,000	1220,000	1460,000	1460,000	2170,000	-0	-0	-0	-0	
ET	-0	-0	-0	-0	10,400	-0	-0	-0	-0	-0	
X1	9,500	50,000	302,000	432,000	-0	-0	-0	-0	-0	-0	
BT	2,000	302,000	891,500	888,900	432,000	891,500	888,600	-0	-0	-0	
GR	910,000	0	905,000	25,000	900,000	50,000	892,000	165,000	891,500	302,000	
GR	885,500	302,000	880,000	314,000	888,800	314,000	888,800	315,000	880,000	315,000	
GR	878,400	328,000	888,800	328,000	888,800	329,000	878,400	329,000	877,300	340,000	
GR	888,800	340,000	888,800	341,000	877,300	341,000	877,000	353,000	888,700	353,000	
GR	888,700	354,000	877,000	354,000	874,400	368,000	888,700	368,000	888,700	369,000	
GR	874,400	369,000	874,000	374,000	874,800	382,000	888,700	382,000	888,700	383,000	
GR	874,800	383,000	877,500	394,000	888,600	394,000	888,600	395,000	877,500	395,000	
GR	878,500	408,000	888,600	408,000	888,600	409,000	878,500	409,000	882,500	420,000	
GR	888,600	420,000	888,600	421,000	882,500	421,000	886,000	431,000	891,500	432,000	
GR	891,500	490,000	895,000	550,000	900,000	560,000	905,000	565,000	910,000	590,000	
X1	9,700	-0	-0	-0	20,000	20,000	20,000	-0	-0	-0	
X1	10,000	38,000	316,000	395,000	30,000	30,000	30,000	-0	-0	-0	
BT	6,000	297,000	888,900	0	316,000	889,100	886,100	345,000	889,400	886,700	
BT	346,000	889,400	885,600	395,000	889,300	885,500	410,000	889,100	0	-0	
GR	910,000	25,000	905,000	55,000	900,000	70,000	895,000	85,000	890,300	150,000	
GR	889,000	200,000	888,500	250,000	888,900	297,000	888,500	297,000	887,500	300,000	
GR	881,200	316,000	878,300	327,000	879,000	330,000	886,400	330,000	886,400	331,000	
GR	879,000	331,000	882,600	336,000	880,800	345,000	885,600	345,000	885,600	346,000	
GR	880,800	346,000	879,000	350,000	874,200	355,000	874,000	360,000	874,200	365,000	
GR	878,200	370,000	885,500	370,000	885,500	371,000	878,200	371,000	882,200	395,000	
GR	884,000	398,000	884,400	410,000	889,100	410,000	889,100	450,000	889,600	475,000	
GR	895,000	495,000	900,000	500,000	910,000	520,000	-0	-0	-0	-0	
X1	10,300	-0	-0	-0	30,000	30,000	30,000	-0	-0	-0	
X1	10,800	27,000	261,000	282,000	50,000	50,000	50,000	-0	-0	-0	
GR	899,200	0	895,700	20,000	894,800	23,000	895,400	26,000	895,400	37,000	
GR	894,100	49,000	893,800	50,000	885,800	64,000	885,700	76,000	882,400	84,000	
GR	880,900	100,000	879,900	150,000	879,200	200,000	879,300	250,000	879,900	261,000	
GR	875,200	264,000	875,100	270,000	875,200	275,000	878,000	282,000	882,400	296,000	
GR	882,700	300,000	883,300	314,000	893,600	338,000	892,800	350,000	892,300	368,000	
GR	897,400	375,000	915,000	400,000	-0	-0	-0	-0	-0	-0	

	X1	13,000	-0	-0	-0	220,000	220,000	220,000	-0	1,200	-0
	NC	,100	,100	,100	,300	,500	-0	-0	-0	-0	-0
B	X1	17,000	21,000	384,000	400,000	400,000	400,000	400,000	-0	-0	-0
	GR	915,000	0	897,900	100,000	896,100	107,000	892,200	113,000	893,300	121,000
	GR	887,600	131,000	885,200	150,000	883,500	200,000	883,300	250,000	882,600	300,000
	GR	882,500	350,000	882,800	384,000	878,500	387,000	878,300	390,000	878,500	395,000
	GR	883,100	400,000	881,800	406,000	883,300	450,000	883,700	458,000	898,800	490,000
	GR	915,000	540,000	-0	-0	-0	-0	-0	-0	-0	-0
C	X1	19,500	15,000	113,000	129,000	250,000	250,000	250,000	-0	-0	-0
	GR	915,000	0	906,700	50,000	906,400	55,000	885,400	100,000	884,500	113,000
	GR	881,600	116,000	880,800	123,000	881,600	128,000	885,400	129,000	882,900	150,000
	GR	884,600	159,000	886,100	200,000	890,400	250,000	900,200	300,000	915,000	350,000
	X1	24,000	-0	-0	-0	450,000	450,000	450,000	-0	5,000	-0
D	X1	31,500	15,000	220,000	247,000	750,000	750,000	750,000	-0	-0	-0
	GR	914,200	0	904,500	50,000	898,400	75,000	897,700	100,000	897,500	150,000
	GR	897,400	200,000	897,000	220,000	894,200	221,000	894,600	230,000	894,200	238,000
	GR	894,600	246,000	896,000	247,000	896,400	250,000	902,600	260,000	915,000	290,000
	QT	5,000	710,000	1210,000	1440,000	1440,000	2110,000	-0	-0	-0	-0
E	X1	34,500	13,000	96,000	112,000	300,000	300,000	300,000	-0	-0	-0
	GR	925,900	0	914,100	50,000	901,200	89,000	900,400	94,000	898,100	96,000
	GR	897,600	102,000	898,200	108,000	900,500	112,000	901,900	150,000	904,000	169,000
	GR	911,800	200,000	914,100	208,000	925,000	250,000	-0	-0	-0	-0
	X1	37,000	-0	-0	-0	250,000	250,000	250,000	-0	3,300	-0
F	X1	39,000	12,000	100,000	117,000	200,000	200,000	200,000	-0	-0	-0
	GR	934,100	0	915,700	50,000	907,900	73,000	907,500	100,000	904,500	103,000
	GR	904,100	104,000	903,600	111,000	904,100	115,000	905,800	117,000	907,600	150,000
	GR	911,700	200,000	922,800	240,000	-0	-0	-0	-0	-0	-0
G	X1	40,500	13,000	50,000	76,000	150,000	150,000	150,000	-0	-0	-0
	GR	919,400	0	916,800	12,000	912,300	19,000	908,400	39,000	908,300	50,000
	GR	905,500	60,000	904,700	67,000	904,400	70,000	904,700	73,000	908,700	76,000
	GR	910,600	100,000	916,900	150,000	926,400	200,000	-0	-0	-0	-0
	X1	45,000	-0	-0	-0	450,000	450,000	450,000	-0	5,200	-0
H	X1	51,000	11,000	103,000	126,000	600,000	600,000	600,000	-0	-0	-0
	GR	938,100	0	923,800	27,000	920,600	50,000	919,700	100,000	919,700	103,000
	GR	917,100	105,000	916,600	109,000	917,100	116,000	921,300	126,000	924,500	150,000
	GR	939,700	193,000	-0	-0	-0	-0	-0	-0	-0	-0
	QT	5,000	600,000	1030,000	1240,000	1240,000	1800,000	-0	-0	-0	-0
I	X1	57,000	12,000	312,000	330,000	600,000	600,000	600,000	-0	-0	-0
	GR	950,000	0	927,800	200,000	927,400	250,000	926,900	300,000	927,400	312,000
	GR	924,900	314,000	924,500	320,000	924,900	324,000	926,700	330,000	927,200	350,000
	GR	930,200	361,000	947,200	390,000	-0	-0	-0	-0	-0	-0
	X1	61,000	-0	-0	-0	400,000	400,000	400,000	-0	4,700	-0

QT	5,000	480,000	860,000	1040,000	1040,000	1530,000	-0	-0	-0	-0
J X1	64,000	12,000	235,000	257,000	300,000	300,000	300,000	-0	-0	-0
GR	952,000	0	942,300	50,000	937,200	100,000	935,900	110,000	935,400	150,000
GR	935,000	200,000	935,400	235,000	933,000	244,000	932,900	247,000	933,000	250,000
GR	944,400	257,000	954,900	280,000	-0	-0	-0	-0	-0	-0
K X1	69,500	14,000	160,000	174,000	550,000	550,000	550,000	-0	-0	-0
GR	960,700	0	945,500	50,000	943,400	100,000	944,600	150,000	944,400	160,000
GR	941,700	161,000	941,200	166,000	941,800	170,000	944,300	174,000	944,200	200,000
GR	945,000	225,000	950,100	250,000	954,900	300,000	960,600	340,000	-0	-0
L X1	73,000	12,000	106,000	121,000	350,000	350,000	350,000	-0	-0	-0
GR	965,100	0	958,700	50,000	953,300	92,000	950,000	100,000	949,400	106,000
GR	947,500	108,000	947,200	112,000	947,500	116,000	950,100	121,000	952,200	150,000
GR	953,900	164,000	967,400	200,000	-0	-0	-0	-0	-0	-0
X1	75,000	-0	-0	-0	200,000	200,000	200,000	-0	7,200	-0
X1	77,000	-0	-0	-0	200,000	200,000	200,000	-0	7,200	-0
X1	79,000	-0	-0	-0	200,000	200,000	200,000	-0	7,200	-0
M X1	81,000	10,000	54,000	70,000	200,000	200,000	200,000	-0	-0	-0
GR	993,900	0	979,100	22,000	978,300	50,000	977,600	54,000	976,200	57,000
GR	975,900	60,000	976,200	64,000	980,200	70,000	979,400	98,000	994,100	140,000
X1	85,000	-0	-0	-0	400,000	400,000	400,000	-0	3,600	-0
N X1	90,000	15,000	105,000	122,000	600,000	600,000	600,000	-0	-0	-0
GR	1007,200	0	999,000	50,000	997,800	58,000	989,900	78,000	989,000	100,000
GR	988,400	105,000	986,200	109,000	986,000	113,000	986,200	119,000	989,500	122,000
GR	988,600	150,000	988,900	200,000	993,500	250,000	996,000	266,000	1005,700	300,000
O X1	95,000	14,000	170,000	185,000	500,000	500,000	500,000	-0	-0	-0
GR	1004,200	0	997,400	50,000	993,800	88,000	993,200	100,000	993,900	150,000
GR	992,900	170,000	991,100	174,000	990,800	176,000	990,600	179,000	990,800	183,000
GR	993,800	185,000	993,300	200,000	995,700	250,000	1009,100	293,000	-0	-0
QT	5,000	440,000	770,000	900,000	900,000	1340,000	-0	-0	-0	-0
P X1	98,000	14,000	144,000	163,000	300,000	300,000	300,000	-0	-0	-0
GR	1016,200	0	1012,400	50,000	1006,000	100,000	1001,500	144,000	995,800	150,000
GR	995,500	152,000	995,800	155,000	999,300	163,000	999,300	200,000	999,800	250,000
GR	1003,400	300,000	1010,000	350,000	1014,300	384,000	1014,700	400,000	-0	-0
X1	101,000	-0	-0	-0	300,000	300,000	300,000	-0	5,100	-0
QT	5,000	340,000	610,000	760,000	760,000	1100,000	-0	-0	-0	-0
Q X1	105,000	15,000	229,000	241,000	400,000	400,000	400,000	-0	-0	-0
GR	1031,200	0	1028,300	50,000	1024,100	100,000	1017,700	150,000	1013,700	200,000
GR	1012,700	229,000	1007,500	235,000	1007,400	238,000	1007,500	240,000	1009,100	241,000
GR	1011,700	250,000	1011,400	300,000	1014,300	339,000	1019,100	350,000	1031,000	375,000

 INTERACTIVE HEC2 VERSION UPDATED SEPT. 1976
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09,10
 MODIFICATIONS 50,51,52,53,54,55,56,57,58,59

T1 ELKIN NORTH CAROLINA
 T2 FLOOD INSURANCE STUDY
 T3 DUTCHMANS CREEK FLOODWAY

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-0	5.	-0	-0	-0	-0	-0	-0	888.200	-0
J2	NPROF	IPLT	PRFS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	-0	-1.000	5.000	50.000	-0	-0	-0	-0	-0

SUMMARY PRINTOUT

DUTCHMANS CREEK 100-YR N

SECNO	ELENC	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	TOPWID	SSTA	ENDBT	SECNO
9.50	0	891.50	888.90	874.00	1460.00	887.20	0	887.23	120.22	302.00	431.22	9.50
9.50	100000.00	891.50	888.90	874.00	1460.00	888.20	0	888.22	120.40	302.00	431.40	9.50
9.70	0	0	0	874.00	1460.00	887.23	0	887.26	120.22	302.00	431.22	9.70
9.70	100000.00	0	0	874.00	1460.00	888.22	0	888.25	120.40	302.00	431.40	9.70
10.00	0	888.90	886.70	874.00	1460.00	887.29	0	887.39	109.44	300.56	410.00	10.00
10.00	100000.00	888.90	886.70	874.00	1460.00	888.26	0	888.37	86.77	310.60	397.37	10.00
10.30	0	0	0	874.00	1460.00	887.45	0	887.51	109.84	300.16	410.00	10.30
10.30	100000.00	0	0	874.00	1460.00	888.44	0	888.50	79.00	316.00	395.00	10.30
10.80	0	0	0	875.10	1460.00	887.52	0	887.53	262.85	60.99	323.84	10.80
10.80	100000.00	0	0	875.10	1460.00	888.52	0	888.53	182.18	102.27	284.46	10.80
13.00	0	0	0	876.30	1460.00	887.54	0	887.56	258.03	63.05	321.09	13.00
13.00	100000.00	0	0	876.30	1460.00	888.54	0	888.56	169.19	112.81	282.00	13.00
17.00	0	0	0	878.30	1460.00	887.64	0	887.65	335.42	130.93	466.35	17.00
17.00	100000.00	0	0	878.30	1460.00	888.64	0	888.66	213.35	206.55	419.90	17.00
19.50	0	0	0	880.80	1460.00	887.91	0	888.15	126.40	94.63	221.03	19.50
19.50	100000.00	0	0	880.80	1460.00	888.85	0	889.23	55.41	113.00	168.41	19.50
24.00	0	0	0	885.80	1460.00	893.17	0	893.37	129.95	94.07	224.02	24.00
24.00	100000.00	0	0	885.80	1460.00	894.45	0	894.73	59.55	113.00	172.55	24.00
31.50	0	0	0	894.20	1460.00	899.97	0	900.12	187.22	68.55	255.76	31.50
31.50	100000.00	0	0	894.20	1460.00	901.13	0	901.32	92.48	154.52	247.00	31.50
34.50	0	0	0	897.60	1440.00	903.85	0	904.52	86.82	80.95	167.77	34.50
34.50	100000.00	0	0	897.60	1440.00	905.12	0	905.94	37.33	96.00	133.33	34.50
37.00	0	0	0	900.90	1440.00	908.45	0	908.73	96.57	77.03	173.60	37.00
37.00	100000.00	0	0	900.90	1440.00	910.00	0	910.30	51.24	96.00	147.24	37.00
39.00	0	0	0	903.60	1440.00	910.64	0	910.89	122.14	64.92	187.06	39.00
39.00	100000.00	0	0	903.60	1440.00	911.94	0	912.26	56.12	91.45	147.57	39.00
40.50	0	0	0	904.40	1440.00	912.37	0	912.72	95.12	18.90	114.01	40.50
40.50	100000.00	0	0	904.40	1440.00	913.47	0	913.95	41.96	40.82	82.78	40.50
45.00	0	0	0	909.60	1440.00	917.70	0	918.03	96.41	18.69	115.10	45.00
45.00	100000.00	0	0	909.60	1440.00	918.71	0	919.16	43.60	40.28	83.88	45.00
51.00	0	0	0	916.60	1440.00	923.94	0	924.16	119.12	26.72	145.85	51.00
51.00	100000.00	0	0	916.60	1440.00	925.08	0	925.36	57.80	68.20	126.00	51.00
57.00	0	0	0	924.50	1240.00	929.76	0	929.89	177.05	182.34	359.39	57.00
57.00	100000.00	0	0	924.50	1240.00	930.90	0	931.10	83.17	246.83	330.00	57.00
61.00	0	0	0	929.20	1240.00	934.24	0	934.41	174.26	184.32	358.58	61.00
61.00	100000.00	0	0	929.20	1240.00	935.34	0	935.59	79.61	250.39	330.00	61.00

SECNO	ELENC	ELYRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	TOPWID	SBTA	ENDST	SECNO
64.00	0	0	0	932.90	1040.00	937.74	0	937.86	158.23	94.68	252.91	64.00
64.00	100000.00	0	0	932.90	1040.00	938.79	0	938.97	79.10	174.46	253.56	64.00
69.50	0	0	0	941.20	1040.00	945.84	0	946.05	180.23	48.88	229.11	69.50
69.50	100000.00	0	0	941.20	1040.00	946.84	0	947.21	69.32	104.68	174.00	69.50
73.00	0	0	0	947.20	1040.00	953.66	0	954.12	72.78	89.22	162.00	73.00
73.00	100000.00	0	0	947.20	1040.00	954.74	0	955.39	31.93	104.60	136.53	73.00
75.00	0	0	0	954.40	1040.00	959.90	0	960.92	60.66	93.46	154.11	75.00
75.00	100000.00	0	0	954.40	1040.00	961.11	0	962.59	20.68	106.00	126.68	75.00
77.00	0	0	0	961.60	1040.00	967.86	0	968.40	69.47	90.83	160.30	77.00
77.00	100000.00	0	0	961.60	1040.00	969.18	0	969.90	29.42	105.45	134.88	77.00
79.00	0	0	0	968.80	1040.00	974.47	0	975.35	62.51	93.03	155.55	79.00
79.00	100000.00	0	0	968.80	1040.00	975.59	0	976.86	22.70	106.00	128.70	79.00
81.00	0	0	0	975.90	1040.00	981.52	0	981.90	85.69	18.39	104.08	81.00
81.00	100000.00	0	0	975.90	1040.00	982.82	0	983.32	40.49	35.30	75.79	81.00
85.00	0	0	0	979.50	1040.00	986.42	0	986.58	91.30	16.47	107.77	85.00
85.00	100000.00	0	0	979.50	1040.00	987.44	0	987.64	56.86	30.37	87.23	85.00
90.00	0	0	0	986.00	1040.00	991.37	0	991.51	152.51	74.29	226.80	90.00
90.00	100000.00	0	0	986.00	1040.00	992.42	0	992.62	70.72	105.00	175.72	90.00
95.00	0	0	0	990.60	1040.00	996.02	0	996.13	186.42	64.59	251.02	95.00
95.00	100000.00	0	0	990.60	1040.00	997.08	0	997.24	83.43	111.44	194.87	95.00
98.00	0	0	0	995.50	900.00	1000.70	1000.61	1001.22	117.68	144.84	262.53	98.00
98.00	100000.00	0	0	995.50	900.00	1001.54	0	1002.54	36.02	144.00	180.02	98.00
101.00	0	0	0	1000.60	900.00	1006.95	0	1007.08	137.78	140.63	278.40	101.00
101.00	100000.00	0	0	1000.60	900.00	1008.16	0	1008.36	58.28	144.00	202.28	101.00
105.00	0	0	0	1007.40	760.00	1013.09	0	1013.45	104.89	217.79	322.68	105.00
105.00	100000.00	0	0	1007.40	760.00	1014.01	0	1014.68	30.88	229.00	259.88	105.00
107.50	0	0	0	1011.70	760.00	1018.09	0	1018.25	133.14	198.94	332.08	107.50
107.50	100000.00	0	0	1011.70	760.00	1019.31	0	1019.54	45.88	229.00	274.88	107.50
110.20	0	0	0	1016.20	760.00	1021.99	0	1022.21	96.33	94.98	191.31	110.20
110.20	100000.00	0	0	1016.20	760.00	1023.04	0	1023.39	37.83	152.17	190.00	110.20
110.50	0	0	0	1016.20	760.00	1022.47	0	1023.50	22.00	168.00	190.00	110.50
110.50	100000.00	0	0	1016.20	760.00	1023.62	0	1024.26	22.00	168.00	190.00	110.50
111.00	0	1025.50	1020.50	1018.30	760.00	1023.67	0	1028.68	210.34	43.60	253.94	111.00
111.00	100000.00	999999.00	0	1018.30	760.00	1029.82	0	1029.84	103.02	83.97	186.99	111.00
111.40	0	0	0	1019.70	760.00	1028.67	0	1028.70	178.53	58.26	234.79	111.40
111.40	100000.00	0	0	1019.70	760.00	1029.82	0	1029.86	81.14	93.10	174.24	111.40
* 114.00	0	0	0	1025.50	760.00	1031.61	1031.61	1034.45	10.00	64.00	74.00	114.00
* 114.00	100000.00	0	0	1025.50	760.00	1031.61	1031.61	1034.45	10.00	64.00	74.00	114.00

SECNO	ELENCL	ELTRD	ELLC	ELMTN	Q	CWSEL	CRWS	EG	TOPWID	SETA	ENDBT	SECNO
115.00	0	1054.50	1033.30	1028.80	760.00	1055.52	0	1055.52	193.00	0	193.00	115.00
115.00	100000.00	999999.00	0	1028.80	760.00	1055.51	0	1055.51	151.93	21.67	173.61	115.00
116.00	0	0	0	1031.00	760.00	1055.52	0	1055.52	191.22	1.78	193.00	116.00
116.00	100000.00	0	0	1031.00	760.00	1055.51	0	1055.51	138.81	28.46	167.27	116.00
119.00	0	0	0	1039.10	760.00	1055.52	0	1055.52	195.93	17.43	212.97	119.00
119.00	100000.00	0	0	1039.10	760.00	1055.51	0	1055.52	98.28	70.63	168.91	119.00

SUMMARY PRINTOUT

DUTCHMANS CREEK 100-YR N

SECNO	CWSEL	VOL	DEPTH	VCH	QLOB	VLOB	GCH	VCH	QROB	VROB	AREA	SECNO
9.50	887.20	0	13.20	1.39	0	0	1460.00	1.39	0	0	1053.73	9.50
9.50	888.20	0	14.20	1.24	0	0	1460.00	1.24	0	0	1174.04	9.50
9.70	887.23	.48	13.23	1.38	0	0	1460.00	1.38	0	0	1057.56	9.70
9.70	888.22	.54	14.22	1.24	0	0	1460.00	1.24	0	0	1176.97	9.70
10.00	887.29	1.04	13.29	2.57	95.97	2.54	1349.87	2.57	14.17	2.86	567.08	10.00
10.00	888.26	1.13	14.26	2.72	27.78	2.10	1426.08	2.72	6.13	1.57	541.44	10.00
10.30	887.45	1.50	13.45	1.92	106.57	2.16	1242.78	1.92	110.65	2.13	749.47	10.30
10.30	888.44	1.57	14.44	2.01	0	0	1460.00	2.01	0	0	727.39	10.30
10.80	887.52	2.99	12.42	.61	1171.65	.84	148.56	.61	139.79	.68	1849.77	10.80
10.80	888.52	2.95	13.42	.65	1280.27	.92	170.98	.65	8.75	.35	1686.48	10.80
13.00	887.54	11.56	11.24	.76	1168.52	1.00	164.97	.76	126.52	.80	1542.52	13.00
13.00	888.54	10.70	12.24	.66	1301.59	1.14	158.41	.66	0	0	1380.07	13.00
17.00	887.64	25.49	9.34	1.21	1000.25	.94	156.73	1.21	303.02	.99	1492.40	17.00
17.00	888.64	22.98	10.34	1.32	1137.31	1.11	190.96	1.32	131.73	1.02	1294.52	17.00
19.50	887.91	30.87	7.11	4.85	146.88	3.25	464.83	4.85	848.29	3.53	381.22	19.50
19.50	888.85	27.54	8.05	5.07	0	0	562.36	5.07	897.64	4.90	294.20	19.50
24.00	893.17	34.98	7.37	4.44	151.65	3.03	443.09	4.44	865.25	3.27	414.25	24.00
24.00	894.45	30.84	8.65	4.24	0	0	510.90	4.24	949.10	4.22	345.56	24.00
31.50	899.97	43.05	5.77	3.85	834.77	2.36	571.33	3.85	53.90	2.49	523.63	31.50
31.50	901.13	37.48	6.93	3.92	756.16	3.07	703.84	3.92	0	0	425.94	31.50
34.50	903.85	45.69	6.25	8.02	166.65	4.72	721.47	8.02	551.87	4.65	243.88	34.50
34.50	905.12	39.64	7.52	7.75	0	0	852.61	7.75	587.39	6.52	200.18	34.50
37.00	908.45	47.43	7.55	5.28	183.83	3.21	584.61	5.28	671.55	3.44	362.98	37.00
37.00	910.00	41.16	9.10	4.51	0	0	610.66	4.51	829.34	4.23	331.26	37.00
39.00	910.64	49.15	7.04	4.99	278.67	3.08	530.78	4.99	630.55	3.38	383.04	39.00
39.00	911.94	42.68	8.34	5.22	111.40	2.98	670.95	5.22	657.65	4.05	328.04	39.00
40.50	912.37	50.38	7.97	5.44	290.05	3.43	921.51	5.44	228.44	2.95	331.46	40.50
40.50	913.47	43.72	9.07	5.92	169.33	3.60	1172.98	5.92	97.69	3.20	275.67	40.50
45.00	917.70	53.87	8.10	5.23	296.89	3.34	905.41	5.23	237.70	2.87	344.54	45.00
45.00	918.71	46.61	9.11	5.76	178.26	3.55	1147.38	5.76	114.37	3.22	285.01	45.00
51.00	923.94	59.03	7.34	4.42	791.39	3.26	603.60	4.42	45.01	1.71	405.58	51.00
51.00	925.08	50.92	8.48	4.55	699.72	3.93	740.28	4.55	0	0	340.61	51.00
57.00	929.76	64.84	5.26	3.82	742.77	2.59	312.03	3.82	185.21	2.71	436.98	57.00
57.00	930.90	55.65	6.40	3.87	844.34	3.46	395.66	3.87	0	0	345.82	57.00
61.00	934.24	68.67	5.04	4.26	725.63	2.80	330.38	4.26	183.99	2.97	398.39	61.00
61.00	935.34	58.67	6.14	4.38	812.73	3.77	427.27	4.38	0	0	312.93	61.00

SECNO	CWSEL	VOL	DEPTH	VCH	QLOB	VLOB	QCH	VCH	QROB	VROB	AREA	SECNO
64.00	937.74	71.36	4.84	3.24	820.88	2.62	219.12	3.24	0	0	380.70	64.00
64.00	938.79	60.81	5.89	3.60	727.36	3.30	312.64	3.60	0	0	307.07	64.00
69.50	945.84	75.67	4.64	5.02	557.38	3.19	267.44	5.02	215.18	2.91	302.24	69.50
69.50	946.84	64.11	5.64	5.54	668.04	4.48	371.96	5.54	0	0	216.14	69.50
73.00	953.66	77.71	6.46	6.50	181.23	4.50	553.16	6.50	305.61	3.75	206.89	73.00
73.00	954.74	65.67	7.54	7.14	16.82	2.28	724.14	7.14	299.04	4.72	172.27	73.00
75.00	959.90	78.52	5.50	9.32	167.29	6.24	659.95	9.32	212.76	4.63	143.58	75.00
75.00	961.11	66.32	6.71	10.15	0	0	903.77	10.15	136.22	6.64	109.55	75.00
77.00	967.86	79.29	6.26	6.99	177.81	4.81	573.49	6.99	288.70	3.95	192.23	77.00
77.00	969.18	66.94	7.58	7.40	4.05	1.38	754.81	7.40	281.13	4.85	162.94	77.00
79.00	974.47	80.08	5.67	8.69	169.89	5.85	637.64	8.69	232.47	4.48	154.32	79.00
79.00	975.59	67.59	6.79	9.47	0	0	855.00	9.47	185.00	6.63	118.19	79.00
81.00	981.52	80.95	5.62	5.84	445.34	4.55	421.58	5.84	173.08	3.16	224.87	81.00
81.00	982.82	68.30	6.92	6.28	408.75	4.94	582.96	6.28	48.29	3.09	191.28	81.00
85.00	986.42	83.54	6.92	3.73	448.73	3.09	346.26	3.73	245.01	2.42	339.20	85.00
85.00	987.44	70.57	7.94	4.10	418.04	3.29	448.01	4.10	173.95	2.60	303.15	85.00
90.00	991.37	88.40	5.37	3.86	137.89	2.37	306.92	3.86	595.19	2.60	366.29	90.00
90.00	992.42	74.64	6.42	4.01	0	0	390.04	4.01	649.95	3.41	287.78	90.00
95.00	996.02	92.89	5.42	3.54	559.11	2.41	251.16	3.54	229.73	2.03	415.78	95.00
95.00	997.08	78.17	6.48	3.95	613.65	2.97	342.54	3.95	83.81	2.47	327.10	95.00
98.00	1000.70	94.94	5.20	7.14	0	0	450.65	7.14	449.35	3.90	178.22	98.00
98.00	1001.54	79.70	6.04	8.62	0	0	678.05	8.62	221.95	5.82	116.83	98.00
101.00	1006.95	96.66	6.35	3.60	.26	.45	304.51	3.60	595.23	2.50	323.04	101.00
101.00	1008.16	80.98	7.56	3.84	0	0	413.80	3.84	486.19	3.29	255.57	101.00
105.00	1013.09	98.94	5.69	6.15	1.95	.90	312.76	6.15	445.28	3.71	173.18	105.00
105.00	1014.01	82.69	6.61	7.12	0	0	441.33	7.12	318.67	5.73	117.56	105.00
107.50	1018.09	100.17	6.39	4.14	19.52	1.15	245.56	4.14	494.92	2.74	256.76	107.50
107.50	1019.31	83.60	7.61	4.18	0	0	309.12	4.18	450.88	3.59	199.72	107.50
110.20	1021.99	101.63	5.79	4.42	394.24	3.05	365.44	4.42	.32	.82	212.17	110.20
110.20	1023.04	84.73	6.84	5.04	227.08	4.03	532.92	5.04	0	0	162.17	110.20
110.50	1022.47	101.73	6.27	8.16	0	0	760.00	8.16	0	0	93.17	110.50
110.50	1023.62	84.87	7.42	6.41	0	0	760.00	6.41	0	0	118.50	110.50
111.00	1028.67	108.34	10.77	1.55	235.42	1.04	91.84	1.55	432.73	.65	955.92	111.00
111.00	1029.82	85.86	11.52	1.62	204.73	1.29	107.56	1.62	447.70	.76	818.00	111.00
111.40	1028.67	103.09	8.97	2.22	207.45	1.40	113.17	2.22	439.37	.71	683.76	111.40
111.40	1029.82	86.00	10.12	2.38	155.02	1.85	137.73	2.38	467.25	1.10	566.93	111.40
* 114.00	1031.61	105.30	6.11	13.52	0	0	760.00	13.52	0	0	56.23	114.00
* 114.00	1031.61	87.86	6.11	13.53	0	0	760.00	13.53	0	0	56.16	114.00

SECNO	CWSEL	VOL	DEPTH	VCH	QLOB	VLOB	GCH	VCH	QROB	VROB	AREA	SECNO
115.00	1055.52	109.28	26.72	.39	243.83	.28	101.64	.39	414.53	.18	3416.87	115.00
115.00	1055.51	91.50	26.71	.42	236.07	.32	109.00	.42	414.93	.20	3121.72	115.00
116.00	1055.52	116.64	24.52	.45	233.05	.32	107.68	.45	419.27	.21	2992.72	116.00
116.00	1055.51	98.14	24.51	.49	220.74	.38	117.31	.49	421.96	.23	2656.66	116.00
119.00	1055.52	132.20	16.42	.70	520.30	.58	142.49	.70	97.21	.23	1524.84	119.00
119.00	1055.51	111.38	16.41	.80	546.40	.70	160.89	.80	52.71	.26	1190.94	119.00

POSSIBLE ERROR SECNO# 114.00 PROFILE# 1 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO# 114.00 PROFILE# 1 20 TRIALS REQUIRED TO BALANCE WSEL

POSSIBLE ERROR SECNO# 114.00 PROFILE# 2 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO# 114.00 PROFILE# 2 20 TRIALS REQUIRED TO BALANCE WSEL

See below for Sections 105.00 thru 119.00

Using Method 1

C
T1 ELKIN NORTH CAROLINA
T2 FLOOD INSURANCE STUDY
T3 DUTCHMANS CREEK 100-YR NATURAL

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS 0 WSEL FG
-0 4 -0 -0 -0 -0 -0 -0 1013,100 -0

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM TTRACE
1,000 -0 -1,000 5,000 50,000 -0 -0 -0 -0 -0

J3 -3,000 31,000 40,000 41,000 42,000 43,000 1,000 2,000 3,000 4,000
J3 53,000 54,000 38,000 38,000 1,000 7,000 8,000 26,000 13,000 55,000
J3 14,000 26,000 15,000 56,000 25,000 38,000 -0 -0 -0 -0
NC .100 .100 .100 .300 .500 -0 -0 -0 -0 -0
QT 5,000 340,000 610,000 760,000 760,000 1100,000 -0 -0 -0 -0
ET -0 -0 -0 -0 -0 7,100 -0 218,000 260,000 -0 -0

X1 105,000 15,000 229,000 241,000 400,000 400,000 400,000 -0 -0 -0
GR 1031,200 0 1028,300 50,000 1024,100 100,000 1017,700 150,000 1013,700 200,000
GR 1012,700 229,000 1007,500 235,000 1007,400 238,000 1007,500 240,000 1009,100 241,000
GR 1011,700 250,000 1011,400 300,000 1014,300 339,000 1019,100 350,000 1031,000 375,000
ET -0 -0 -0 -0 -0 7,100 -0 218,000 260,000 -0 -0

X1 107,500 -0 -0 -0 250,000 250,000 250,000 -0 4,300 -0
ET -0 -0 -0 -0 -0 7,100 -0 154,000 200,000 -0 -0

X1 110,200 12,000 168,000 190,000 270,000 270,000 270,000 -0 -0 -0
GR 1032,800 0 1029,200 14,000 1026,400 50,000 1021,500 100,000 1019,200 150,000
GR 1019,700 168,000 1016,400 170,000 1016,200 173,000 1016,400 175,000 1021,400 190,000
GR 1025,900 200,000 1038,200 230,000 -0 -0 -0 -0 -0 -0
ET -0 -0 -0 -0 -0 7,100 -0 154,000 200,000 -0 -0

X1 110,500 -0 -0 -0 30,000 30,000 30,000 -0 -0 -0
X3 10,000 -0 -0 -0 -0 -0 -0 1026,000 1026,000 -0
NC .050 .100 .050 .300 .500 -0 -0 -0 -0
SB 0 1,500 2,500 50,000 2,000 0 3,140 0 1018,500 1015,000
ET -0 -0 -0 -0 -0 7,100 -0 92,000 152,000 -0 -0

X1 111,000 15,000 106,000 112,000 50,000 50,000 50,000 -0 -1,400 -0
X2 -0 -0 1,000 1020,500 1025,500 -0 -0 -0 -0 -0
X3 10,000 -0 -0 -0 -0 -0 -0 1026,000 1026,000 -0
GR 1041,800 0 1031,300 32,000 1029,400 50,000 1023,600 100,000 1021,500 106,000
GR 1020,000 107,000 1019,700 109,000 1020,000 111,000 1021,800 112,000 1023,100 150,000
GR 1026,100 200,000 1029,800 250,000 1033,300 300,000 1037,600 350,000 1041,100 400,000
ET -0 -0 -0 -0 -0 7,100 -0 92,000 152,000 -0 -0

X1 111,400 -0 -0 -0 40,000 40,000 40,000 -0 1,400 -0
ET -0 -0 -0 -0 -0 7,100 -0 25,000 90,000 -0 -0

X1 114,000 12,000 64,000 74,000 260,000 260,000 260,000 -0 -5,500 -0
X3 10,000 -0 -0 -0 -0 -0 -0 1055,000 1055,000 -0
GR 1056,200 0 1037,100 50,000 1034,800 61,000 1033,600 62,000 1033,200 64,000

 INTERACTIVE HEC2 VERSION UPDATED SEPT 1976
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09,10
 MODIFICATIONS 50,51,52,53,54,55,56,57,58,59

T1 ELKIN NORTH CAROLINA
 T2 FLOOD INSURANCE STUDY
 T3 DUTCHMANS CREEK FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	D	WSEL	FQ
	-0	5.	-0	-0	-0	-0	-0	-0	1014.000	-0
J2	NPROF	TPLOT	PRFS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	-0	-1.000	5.000	50.000	-0	-0	-0	-0	-0

U

SUMMARY PRINTOUT

DUTCHMANS CREEK 100-YR N

SECNO	ELENCL	ELTHD	ELLC	ELMTN	Q	CWSEL	CAIWS	EG	TOPWID	SSTA	ENDST	SECNO
105.00	0	0	0	1007.40	760.00	1013.10	0	1013.46	105.46	217.40	322.86	105.00
105.00	100000.00	0	0	1007.40	760.00	1014.00	0	1014.60	42.00	218.00	260.00	105.00
107.50	0	0	0	1011.70	760.00	1018.08	0	1018.24	132.97	199.02	331.99	107.50
107.50	100000.00	0	0	1011.70	760.00	1019.40	0	1019.72	42.00	218.00	260.00	107.50
110.20	0	0	0	1016.20	760.00	1022.00	0	1022.22	96.30	94.95	191.32	110.20
110.20	100000.00	0	0	1016.20	760.00	1023.27	0	1023.61	40.18	154.00	194.18	110.20
110.50	0	0	0	1016.20	760.00	1022.47	0	1023.50	22.00	168.00	190.00	110.50
110.50	100000.00	0	0	1016.20	760.00	1023.72	0	1024.34	22.00	168.00	190.00	110.50
111.00	0	1025.50	1020.50	1018.30	760.00	1028.67	0	1028.68	210.34	43.60	253.94	111.00
111.00	100000.00	1025.50	1020.50	1018.30	760.00	1028.65	0	1028.71	60.00	92.00	152.00	111.00
111.40	0	0	0	1019.70	760.00	1028.67	0	1028.70	178.53	56.26	234.79	111.40
111.40	100000.00	0	0	1019.70	760.00	1028.66	0	1028.75	60.00	92.00	152.00	111.40
* 114.00	0	0	0	1025.50	760.00	1031.61	1031.61	1034.45	10.00	64.00	74.00	114.00
* 114.00	100000.00	0	0	1025.50	760.00	1031.61	1031.61	1034.45	10.00	64.00	74.00	114.00
115.00	0	1054.50	1033.30	1028.80	760.00	1055.52	0	1055.52	193.00	0	193.00	115.00
115.00	100000.00	1054.50	1033.30	1028.80	760.00	1055.51	0	1055.52	65.00	25.00	90.00	115.00
116.00	0	0	0	1031.00	760.00	1055.52	0	1055.52	191.22	1.78	193.00	116.00
116.00	100000.00	0	0	1031.00	760.00	1055.51	0	1055.52	65.00	25.00	90.00	116.00
119.00	0	0	0	1039.10	760.00	1055.52	0	1055.52	195.53	17.43	212.97	119.00
119.00	100000.00	0	0	1039.10	760.00	1055.51	0	1055.54	55.00	125.00	180.00	119.00

SUMMARY PRINTOUT

DUTCHMANS CREEK 100-YR N

SECNO	CWSEL	VOL	DEPTH	VCH	QLOR	VLOR	QCH	VCH	QROR	VROR	AREA	SECNO
105.00	1013.10	0	5.70	6.10	2.12	.91	311.17	6.10	446.71	3.68	174.60	105.00
105.00	1014.00	0	6.60	6.98	33.40	2.73	431.41	6.98	295.19	5.30	129.76	105.00
107.50	1018.08	1.24	6.38	4.16	19.24	1.10	246.09	4.16	494.67	2.75	255.88	107.50
107.50	1019.40	.88	7.70	5.11	64.14	2.63	384.00	5.11	311.87	4.07	176.20	107.50
110.20	1022.00	2.69	5.80	4.41	394.53	3.05	365.15	4.41	.32	.83	212.52	110.20
110.20	1023.27	1.94	7.07	5.00	198.76	3.76	554.75	5.00	6.49	1.65	167.82	110.20
110.50	1022.47	2.79	6.27	8.16	0	0	760.00	8.16	0	0	93.19	110.50
110.50	1023.77	2.04	7.52	6.30	0	0	760.00	6.30	0	0	120.69	110.50
111.00	1028.67	3.39	10.37	1.55	235.42	1.04	91.84	1.55	432.73	.65	955.92	111.00
111.00	1028.65	2.37	10.35	2.72	196.47	2.12	161.02	2.72	402.51	1.33	454.63	111.00
111.40	1028.67	4.15	8.97	2.22	207.45	1.40	113.17	2.22	439.37	.91	683.76	111.40
111.40	1028.66	2.75	8.94	3.39	190.56	2.59	172.42	3.39	397.02	1.61	371.57	111.40
* 114.00	1031.61	6.36	6.11	13.52	0	0	760.00	13.52	0	0	56.23	114.00
* 114.00	1031.61	4.03	6.11	13.52	0	0	760.00	13.52	0	0	56.23	114.00
115.00	1055.52	10.34	26.72	.39	243.83	.28	101.64	.39	414.53	.18	3416.87	115.00
115.00	1055.51	5.66	26.71	.83	449.45	.64	217.22	.83	93.34	.24	1360.07	115.00
116.00	1055.52	17.70	24.52	.45	233.05	.32	107.68	.45	419.27	.21	2992.72	116.00
116.00	1055.51	8.61	24.51	.92	440.01	.71	222.05	.92	97.94	.28	1216.67	116.00
119.00	1055.52	33.26	16.42	.70	520.30	.58	142.49	.70	97.21	.23	1524.84	119.00
119.00	1055.51	15.13	16.41	1.84	201.95	1.13	372.97	1.84	185.08	.63	674.96	119.00

POSSIBLE ERROR SECNO# 114.00 PROFILE# 1 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO# 114.00 PROFILE# 1 20 TRIALS REQUIRED TO BALANCE WREL

POSSIBLE ERROR SECNO# 114.00 PROFILE# 2 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO# 114.00 PROFILE# 2 20 TRIALS REQUIRED TO BALANCE WSEL

D-1

Floodway

X-Sections 2.2 thru 10

C
 T1 ELKIN NC TRIBUTARY D-1 DECEMBER 1976
 T2 FLOOD INSURANCE STUDY
 T3 TRIBUTARY D-1 NATURAL 100-YR STRT WSEL 10-YR KEN RUSS

Maintained ^{station} ~~uninterrupted~~ at
 50' up through X-section
 10+00, using HEC-22
 Method I

J1	ICHECK	INQ	NINV	IOIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-0	4.	-0	-0	-0	-0	-0	-0	933.300	-0
J2	NPROF	IPLQT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	-0	-0	5.000	50.000	-0	-0	-0	0	-0
J3	-3.000	31.000	40.000	41.000	42.000	43.000	1.000	2.000	3.000	4.000
J3	53.000	54.000	38.000	38.000	1.000	7.000	8.000	26.000	13.000	54.000
J3	14.000	26.000	15.000	56.000	25.000	38.000	-0	-0	-0	-0
NC	.100	.100	.100	.300	.500	-0	-0	-0	-0	-0
QT	5.000	230.000	430.000	550.000	550.000	810.000	-0	-0	-0	-0
ET	-0	-0	-0	-0	7.100	-0	140.000	200.000	-0	-0

TRIBUTARY D-1

A

X1	2.200	15.000	158.000	167.000	-0	-0	-0	-0	-0	-0
GR	970.100	0	950.900	50.000	948.400	100.000	947.700	107.000	941.900	120.000
GR	939.100	150.000	934.900	158.000	933.800	159.000	933.700	161.000	933.800	165.000
GR	935.500	167.000	937.500	200.000	939.600	233.000	948.800	250.000	954.500	260.000
ET	-0	-0	-0	-0	7.100	-0	140.000	200.000	-0	-0

X1	2.700	-0	-0	-0	50.000	50.000	50.000	-0	2.400	-0
X3	10.000	-0	-0	-0	-0	-0	-0	958.000	958.000	-0
SB	0	1.500	2.500	0	2.700	0	9.600	0	937.600	936.100
ET	-0	-0	-0	-0	7.100	-0	145.000	195.000	-0	-0

B

X1	3.200	18.000	165.000	174.000	50.000	50.000	50.000	-0	-1.000	-0
X2	-0	-0	1.000	941.100	958.200	-0	-0	-0	-0	-0
X3	10.000	-0	-0	-0	-0	-0	-0	959.000	959.000	-0
BT	13.000	0	959.800	0	50.000	958.600	0	100.000	959.000	0
BT	150.000	961.700	0	165.000	963.000	0	168.200	963.200	939.400	168.600
BT	963.200	940.600	170.000	963.200	941.100	171.500	963.200	940.600	171.800	963.200
BT	939.400	189.000	965.500	0	200.000	966.900	0	232.000	971.200	0
GR	960.700	0	960.200	16.000	959.200	29.000	952.700	50.000	946.600	67.000
GR	944.800	100.000	941.200	150.000	940.000	165.000	939.500	167.000	940.400	168.200
GR	939.200	168.600	938.600	170.000	939.200	171.500	940.400	171.800	939.900	174.000
GR	941.400	189.000	948.900	200.000	962.800	232.000	-0	-0	-0	-0
ET	-0	-0	-0	-0	7.100	-0	145.000	195.000	-0	-0

X1	3.500	-0	-0	-0	30.000	30.000	30.000	-0	1.000	-0
ET	-0	-0	-0	-0	7.100	-0	135.000	190.000	-0	-0

X1	5.500	-0	-0	-0	200.000	200.000	200.000	-0	4.200	-0
ET	-0	-0	-0	-0	7.100	-0	135.000	185.000	-0	-0

C

X1	7.400	14.000	164.000	173.000	190.000	190.000	190.000	-0	-0	-0
GR	966.700	0	966.600	11.000	965.900	25.000	959.300	36.000	956.500	50.000
GR	953.100	100.000	950.100	150.000	948.400	164.000	947.100	165.000	946.900	169.000
GR	947.100	171.000	949.600	173.000	965.400	200.000	971.400	215.000	-0	-0

SUMMARY PRINTOUT

TRIBUTARY D-1 NATURAL

SECNO	ELENCL	ELTRD	ELLC	ELMTN	Q	CWSEL	CRWS	EG	TOPWID	SSTA	ENDST	SECNO	
*	2,20	0	0	933,70	550,00	937,84	937,84	938,65	52,91	152,40	205,31	2,20	
*	2,20	100000,00	0	933,70	550,00	937,83	937,83	938,66	47,58	152,42	200,00	2,20	
*	2,20	0	0	933,70	550,00	937,86	937,86	938,65	53,27	152,36	205,64	2,20	
*	2,20	100000,00	0	933,70	550,00	937,89	937,89	938,66	47,70	152,30	200,00	2,20	
*	2,70	0	0	936,10	550,00	941,6A	0	943,77	9,00	158,00	167,00	2,70	
*	2,70	100000,00	0	936,10	550,00	941,72	0	943,78	9,00	158,00	167,00	2,70	
*	2,70	0	0	936,10	550,00	941,64	0	943,77	9,00	158,00	167,00	2,70	
*	2,70	100000,00	0	936,10	550,00	941,5A	0	943,76	9,00	158,00	167,00	2,70	
	3,20	0	958,20	941,10	937,60	550,00	960,02	0	960,03	227,91	0	227,91	3,20
	3,20	100000,00	958,20	941,10	937,60	550,00	960,02	0	960,03	50,00	145,00	195,00	3,20
	3,20	0	958,20	941,10	937,60	550,00	960,02	0	960,02	227,91	0	227,91	3,20
	3,20	100000,00	958,20	941,10	937,60	550,00	960,02	0	960,02	50,00	145,00	195,00	3,20
	3,50	0	0	938,60	550,00	960,03	0	960,03	207,34	18,27	225,61	3,50	
	3,50	100000,00	0	938,60	550,00	960,02	0	960,03	50,00	145,00	195,00	3,50	
	3,50	0	0	938,60	550,00	960,02	0	960,02	207,32	18,29	225,61	3,50	
	3,50	100000,00	0	938,60	550,00	960,02	0	960,03	50,00	145,00	195,00	3,50	
	5,50	0	0	942,80	550,00	960,03	0	960,03	176,04	39,90	215,94	5,50	
	5,50	100000,00	0	942,80	550,00	960,03	0	960,04	55,00	135,00	190,00	5,50	
	5,50	0	0	942,80	550,00	960,03	0	960,03	176,04	39,90	215,94	5,50	
	5,50	100000,00	0	942,80	550,00	960,03	0	960,04	55,00	135,00	190,00	5,50	
	7,40	0	0	946,90	550,00	960,03	0	960,03	156,03	34,79	190,82	7,40	
	7,40	100000,00	0	946,90	550,00	960,05	0	960,07	50,00	135,00	185,00	7,40	
	7,40	0	0	946,90	550,00	960,03	0	960,03	156,03	34,79	190,82	7,40	
	7,40	100000,00	0	946,90	550,00	960,05	0	960,07	50,00	135,00	185,00	7,40	
	8,00	0	0	949,10	550,00	960,04	0	960,04	143,72	43,35	187,07	8,00	
	8,00	100000,00	0	949,10	550,00	960,07	0	960,12	42,12	145,00	187,12	8,00	
	8,00	0	0	949,10	550,00	960,03	0	960,04	143,71	43,35	187,06	8,00	
	8,00	100000,00	0	949,10	550,00	960,07	0	960,12	42,12	145,00	187,12	8,00	
	9,00	0	0	952,75	550,00	960,07	0	960,13	97,14	83,73	180,87	9,00	
	9,00	100000,00	0	952,75	550,00	960,23	0	960,36	41,17	140,00	181,17	9,00	
	9,00	0	0	952,75	550,00	960,07	0	960,13	97,13	83,74	180,87	9,00	
	9,00	100000,00	0	952,75	550,00	960,23	0	960,36	41,16	140,00	181,16	9,00	
	10,00	0	0	956,50	550,00	960,53	0	961,30	45,95	35,24	81,19	10,00	
	10,00	100000,00	0	956,50	550,00	961,09	0	961,67	36,62	33,38	70,00	10,00	
	10,00	0	0	956,50	550,00	960,53	0	961,30	45,95	35,24	81,19	10,00	
	10,00	100000,00	0	956,50	550,00	961,09	0	961,67	36,61	33,39	70,00	10,00	

SUMMARY PRINTOUT

TRIBUTARY D-1 NATURAL

SECNO	CWSL	VOL	DEPTH	VCH	QLOR	VLOR	QCH	VCH	QROB	VROB	AREA	SECNO	
*	2.20	937.84	0	4.14	8.80	38.11	4.63	302.51	8.80	209.39	4.65	87.67	2.20
*	2.20	937.83	0	4.13	8.88	38.23	4.68	304.78	8.88	206.99	4.72	86.35	2.20
*	2.20	937.86	0	4.16	8.69	38.20	4.58	300.32	8.69	211.48	4.61	88.76	2.20
*	2.20	937.89	0	4.19	8.56	38.57	4.52	298.50	8.56	212.93	4.63	89.38	2.20
*	2.70	941.68	.08	5.58	11.61	0	0	550.00	11.61	0	0	47.38	2.70
*	2.70	941.72	.08	5.62	11.53	0	0	550.00	11.53	0	0	47.70	2.70
*	2.70	941.64	.08	5.54	11.71	0	0	550.00	11.71	0	0	46.97	2.70
*	2.70	941.58	.08	5.48	11.83	0	0	550.00	11.83	0	0	46.50	2.70
	3.20	960.02	1.76	22.42	.20	395.11	.18	38.90	.20	115.99	.18	2882.11	3.20
	3.20	960.02	.68	22.42	.57	218.88	.54	109.41	.57	221.71	.54	1008.53	3.20
	3.20	960.02	1.76	22.42	.20	395.11	.19	38.90	.20	115.99	.18	2881.93	3.20
	3.20	960.02	.68	22.42	.57	218.88	.54	109.41	.57	221.71	.54	1008.41	3.20
	3.50	960.03	3.67	21.43	.22	394.33	.21	39.97	.22	115.70	.19	2662.22	3.50
	3.50	960.02	1.36	21.42	.60	218.88	.57	109.58	.60	221.54	.57	958.33	3.50
	3.50	960.02	3.67	21.42	.22	394.33	.21	39.98	.22	115.70	.19	2662.06	3.50
	3.50	960.02	1.36	21.42	.60	218.88	.57	109.58	.60	221.54	.57	958.21	3.50
	5.50	960.03	14.07	17.23	.31	389.77	.29	45.45	.31	114.78	.29	1870.90	5.50
	5.50	960.03	5.46	17.23	.68	275.07	.63	99.50	.68	175.44	.73	827.58	5.50
	5.50	960.03	14.07	17.23	.31	389.77	.29	45.45	.31	114.78	.29	1870.77	5.50
	5.50	960.03	5.46	17.23	.68	275.07	.63	99.50	.68	175.43	.73	827.45	5.50
	7.40	960.03	20.49	13.13	.64	443.14	.51	72.96	.64	33.90	.36	1070.62	7.40
	7.40	960.05	8.34	13.15	1.33	332.87	1.13	151.47	1.33	65.66	.79	490.72	7.40
	7.40	960.03	20.49	13.13	.64	443.14	.51	72.96	.64	33.90	.36	1070.50	7.40
	7.40	960.05	8.33	13.15	1.33	332.87	1.13	151.48	1.33	65.65	.79	490.60	7.40
	8.00	960.04	21.74	10.94	.96	428.56	.73	90.64	.96	30.80	.53	739.54	8.00
	8.00	960.07	8.89	10.97	2.08	287.18	1.81	195.90	2.08	66.92	1.15	311.31	8.00
	8.00	960.03	21.73	10.93	.96	428.55	.73	90.65	.96	30.80	.53	739.43	8.00
	8.00	960.07	8.89	10.97	2.08	287.18	1.81	195.92	2.08	66.90	1.15	311.21	8.00
	9.00	960.07	22.92	7.32	2.58	368.32	1.76	158.39	2.58	23.29	1.28	288.25	9.00
	9.00	960.23	9.47	7.48	3.36	305.55	2.74	211.54	3.36	32.91	1.69	194.09	9.00
	9.00	960.07	22.91	7.32	2.58	368.29	1.77	158.42	2.58	23.29	1.28	288.18	9.00
	9.00	960.23	9.47	7.48	3.36	305.53	2.74	211.57	3.36	32.90	1.69	194.00	9.00
	10.00	960.53	23.35	4.03	7.99	17.16	3.45	355.34	7.99	177.50	4.92	85.51	10.00
	10.00	961.09	9.80	4.59	6.80	27.64	3.18	355.40	6.80	166.96	4.83	95.57	10.00
	10.00	960.53	23.34	4.03	7.99	17.15	3.45	355.37	7.99	177.47	4.92	85.49	10.00
	10.00	961.09	9.80	4.59	6.80	27.63	3.18	355.43	6.80	166.94	4.83	95.54	10.00

POSSIBLE ERROR SECNO= 2.20 PROFILE= 1 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO= 2.20 PROFILE= 2 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO= 2.20 PROFILE= 3 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO= 2.20 PROFILE= 4 CRITICAL DEPTH ASSUMED

POSSIBLE ERROR SECNO= 2.70 PROFILE= 1 SLOPE TOO STEEP

POSSIBLE ERROR SECNO= 2.70 PROFILE= 2 SLOPE TOO STEEP

D-1

Floodway

Use X-Sections 11 thru 39

Manually computed, no access to computer at 50'

C
T1 ELKIN NC TRIBUTARY D-1 DECEMBER 1976
T2 FLOOD INSURANCE STUDY
T3 TRIBUTARY D-1 NATURAL 100-YR STRT WSEL 10-YR KEN RUSS

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS G HSEL FG
-0 -0 -0 -0 -0 -0 -0 -0 -0 933,300 -0
J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE
1,000 -0 -0 5,000 50,000 -0 -0 -0 -0 -0

J3 -3,000 31,000 40,000 41,000 42,000 43,000 1,000 2,000 3,000 4,000
J3 53,000 54,000 38,000 38,000 1,000 7,000 8,000 26,000 13,000 55,000
J3 14,000 26,000 15,000 56,000 25,000 38,000 -0 -0 -0 -0
NC ,100 ,100 ,100 ,300 ,500 -0 -0 -0 -0
QT 5,000 230,000 430,000 550,000 550,000 810,000 -0 -0 -0 -0
ET -0 -0 -0 -0 -0 10,400 -0 -0 -0 -0

TRIBUTARY D-1

A X1 2,200 15,000 158,000 167,000 -0 -0 -0 -0 -0 -0
GR 970,100 0 950,900 50,000 948,400 100,000 947,700 107,000 941,900 120,000
GR 939,100 150,000 934,900 158,000 933,800 189,000 933,700 161,000 933,800 165,000
GR 935,500 167,000 937,500 200,000 939,600 233,000 948,800 250,000 954,500 260,000

X1 2,700 -0 -0 -0 50,000 50,000 50,000 -0 2,400 -0
X3 10,000 -0 -0 -0 -0 -0 -0 958,000 958,000 -0
SB 0 1,500 2,500 0 2,700 0 9,600 0 937,600 936,100

B X1 3,200 18,000 165,000 174,000 50,000 50,000 50,000 -0 -1,000 -0
X2 -0 -0 1,000 941,100 958,200 -0 -0 -0 -0 -0
X3 10,000 -0 -0 -0 -0 -0 -0 959,000 959,000 -0
BT 13,000 0 959,800 0 90,000 958,600 100,000 959,000 959,000 0
BT 150,000 961,700 0 165,000 963,000 0 168,200 963,200 939,400 168,600
BT 963,200 940,600 170,000 963,200 941,100 171,500 963,200 940,600 171,800 963,200
BT 939,400 189,000 965,500 0 200,000 966,900 232,000 971,200 971,200 0
GR 960,700 0 960,200 16,000 959,200 29,000 952,700 50,000 946,600 67,000
GR 944,800 100,000 941,200 150,000 940,000 165,000 939,500 167,000 940,400 168,200
GR 939,200 168,600 938,600 170,000 939,200 171,500 940,400 171,800 939,900 174,000
GR 941,400 189,000 948,900 200,000 962,800 232,000 -0 -0 -0 -0

X1 3,500 -0 -0 -0 30,000 30,000 30,000 -0 1,000 -0

X1 5,500 -0 -0 -0 200,000 200,000 200,000 -0 4,200 -0

C X1 7,400 14,000 164,000 173,000 190,000 190,000 190,000 -0 -0 -0
GR 966,700 0 966,600 11,000 965,900 25,000 959,300 36,000 956,500 50,000
GR 953,100 100,000 950,100 150,000 948,400 164,000 947,100 165,000 946,900 169,000
GR 947,100 171,000 949,600 173,000 965,400 200,000 971,400 215,000 -0 -0

X1 8,000 -0 -0 -0 60,000 60,000 60,000 -0 2,200 -0

X1 9,000 -0 -0 -0 100,000 100,000 100,000 -0 3,650 -0

X1 10,000 10,000 41,000 55,000 100,000 100,000 100,000 -0 -9,100 -0
GR 980,200 0 967,900 41,000 966,100 42,000 965,600 44,000 966,100 47,000
GR 966,600 50,000 967,400 55,000 969,000 80,000 979,500 100,000 990,400 120,000

X1 11,000 -0 -0 -0 100,000 100,000 100,000 -0 3,650 -0

X1 12,000 -0 -0 -0 100,000 100,000 100,000 -0 3,650 -0

X1 12,500 -0 -0 -0 50,000 50,000 50,000 -0 1,830 -0

X1 14,000 -0 -0 -0 150,000 150,000 150,000 -0 2,100 -0

X1 16,000 12,000 97,000 108,000 200,000 200,000 200,000 -0 -6,000 -0
GR 996,100 0 988,300 50,000 981,300 97,000 976,900 100,000 976,400 103,000
GR 976,900 106,000 978,200 108,000 979,800 142,000 981,500 150,000 986,800 177,000
GR 989,400 200,000 999,500 230,000 -0 -0 -0 -0 -0 -0

X1 18,000 -0 -0 -0 200,000 200,000 200,000 -0 2,800 -0

X1 20,200 -0 -0 -0 220,000 220,000 220,000 -0 3,200 -0

X1 22,000 -0 -0 -0 180,000 180,000 180,000 -0 3,200 -0

X1 24,000 -0 -0 -0 200,000 200,000 200,000 -0 3,600 -0

X1 25,600 13,000 167,000 176,000 160,000 160,000 160,000 -0 -0 -0
GR 1012,400 0 1004,000 50,000 996,900 100,000 991,800 150,000 989,900 167,000
GR 986,200 170,000 986,100 172,000 986,200 174,000 989,800 176,000 988,600 200,000
GR 991,700 243,000 994,000 250,000 1008,900 284,000 -0 -0 -0

X1 26,000 -0 -0 -0 40,000 40,000 40,000 -0 -0 -0

X3 10,000 -0 -0 -0 -0 -0 -0 1006,000 1006,000 -0

SB 0 1,500 2,500 0 2,400 0 7,100 0 991,200 986,100

X1 26,500 14,000 130,000 141,000 50,000 50,000 50,000 -0 -0 -0
X2 -0 -0 1,000 994,200 1004,700 -0 -0 -0 -0 -0
X3 10,000 -0 -0 -0 -0 -0 -0 1005,500 1005,500 -0
BT 12,000 0 1010,000 0 50,000 1006,300 0 100,000 1004,900 0
BT 130,000 1005,000 0 135,500 1005,400 992,700 135,800 1005,400 994,000 137,000
BT 1005,400 994,200 138,200 1005,400 994,000 138,500 1005,400 992,700 150,000 1005,600
BT 0 200,000 1009,300 0 250,000 1015,000 0 -0 -0 -0
GR 1014,300 0 1001,500 50,000 995,600 100,000 994,400 130,000 992,700 135,500
GR 991,600 135,800 991,200 137,000 991,600 138,200 992,700 138,500 993,300 141,000
GR 995,400 150,000 1004,300 200,000 1014,200 250,000 1018,300 283,000 -0 -0
QT 5,000 170,000 320,000 410,000 410,000 600,000 -0 -0 -0

X1 28,000 -0 -0 -0 150,000 150,000 150,000 -0 2,900 -0

1971

X1	29,000	=0	=0	=0	150,000	150,000	150,000	=0	2,700	=0
H X1	31,000	10,000	183,000	192,000	150,000	150,000	150,000	=0	=0	=0
GR	1025,900	0	1016,400	50,000	1008,500	100,000	1004,400	150,000	1001,900	183,000
GR	1000,800	189,000	1003,500	192,000	1004,400	200,000	1017,300	250,000	1022,500	275,000

X1	=0	=0	=0	=0	100,000	100,000	100,000	=0	1,700	=0
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X1	33,000	=0	=0	=0	100,000	100,000	100,000	=0	1,700	=0
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X1	34,000	=0	=0	=0	100,000	100,000	100,000	=0	1,700	=0
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X1	35,000	=0	=0	=0	100,000	100,000	100,000	=0	1,700	=0
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I X1	37,000	12,000	89,000	100,000	200,000	200,000	200,000	=0	=0	=0
GR	1030,200	0	1023,100	50,000	1016,300	85,000	1011,800	86,000	1011,300	89,000
GR	1011,800	93,000	1012,400	98,000	1015,500	100,000	1016,800	150,000	1019,700	200,000
GR	1029,300	250,000	1034,900	270,000	=0	=0	=0	=0	=0	=0
EJ	=0	=0	=0	=0	=0	=0	=0	=0	=0	=0

 INTERACTIVE HEC2 VERSION UPDATED SEPT 1976
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09,10
 MODIFICATIONS 50,51,52,53,54,55,56,57,58,59

T1 ELKIN NC TRIBUTARY D-1 DECEMBER 1976
 T2 FLOOD INSURANCE STUDY
 T3 TRIBUTARY D-1 FLOODWAY STRT WSEL 10-YR PLUS DFT

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-0	5	-0	-0	-0	-0	-0	-0	934,300	-0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2,000	-0	-0	-0	-0	-0	-0	-0	-0	-0

FORM 1431 PRINTED BY THE ENGINEERING RESEARCH COMPANY, S. C.

SUMMARY PRINTOUT

TRIBUTARY D-1 NATURAL

SECNO	ELENCI	ELTRD	ELLC	ELMIN	Q	CHSEL	CRWS	EG	TOPWID	SSTA	ENDBT	SECNO
* 2.20	0	0	0	933.70	550.00	937.84	937.84	938.65	52.91	152.40	205.31	2.20
* 2.20	100000.00	0	0	933.70	550.00	938.35	938.35	940.25	13.41	158.00	171.41	2.20
* 2.20	0	0	0	933.70	550.00	937.86	937.86	938.65	53.27	152.36	205.64	2.20
* 2.20	100000.00	0	0	933.70	550.00	938.35	938.35	940.25	13.41	158.00	171.41	2.20
* 2.70	0	0	0	936.10	550.00	941.68	0	943.77	9.00	158.00	167.00	2.70
* 2.70	100000.00	0	0	936.10	550.00	944.84	0	945.66	9.00	158.00	167.00	2.70
* 2.70	0	0	0	936.10	550.00	941.64	0	943.77	9.00	158.00	167.00	2.70
* 2.70	100000.00	0	0	936.10	550.00	944.84	0	945.66	9.00	158.00	167.00	2.70
3.20	0	958.20	941.10	937.60	550.00	960.02	0	960.03	227.91	0.17	227.91	3.20
3.20	100000.00	999999.00	0	937.60	550.00	963.19	0	963.19	147.11	53.81	200.92	3.20
3.20	0	958.20	941.10	937.60	550.00	960.02	0	960.02	227.91	0	227.91	3.20
3.20	100000.00	999999.00	0	937.60	550.00	963.18	0	963.18	147.11	53.81	200.92	3.20
3.50	0	0	0	938.60	550.00	960.03	0	960.03	207.34	18.27	225.61	3.50
3.50	100000.00	0	0	938.60	550.00	963.19	0	963.19	141.65	57.87	199.52	3.50
3.50	0	0	0	938.60	550.00	960.02	0	960.02	207.32	18.29	225.61	3.50
3.50	100000.00	0	0	938.60	550.00	963.18	0	963.18	141.65	57.87	199.52	3.50
5.50	0	0	0	942.80	550.00	960.03	0	960.03	176.04	39.90	215.94	5.50
5.50	100000.00	0	0	942.80	550.00	963.19	0	963.19	125.58	65.38	190.96	5.50
5.50	0	0	0	942.80	550.00	960.03	0	960.03	176.04	39.90	215.94	5.50
5.50	100000.00	0	0	942.80	550.00	963.18	0	963.19	125.58	65.38	190.96	5.50
7.40	0	0	0	946.90	550.00	960.03	0	960.03	156.03	34.79	190.82	7.40
7.40	100000.00	0	0	946.90	550.00	963.19	0	963.19	96.81	76.19	173.00	7.40
7.40	0	0	0	946.90	550.00	960.03	0	960.03	156.03	34.79	190.82	7.40
7.40	100000.00	0	0	946.90	550.00	963.19	0	963.19	96.81	76.19	173.00	7.40
8.00	0	0	0	949.10	550.00	960.04	0	960.04	143.72	43.35	187.07	8.00
8.00	100000.00	0	0	949.10	550.00	963.19	0	963.20	76.92	96.07	173.00	8.00
8.00	0	0	0	949.10	550.00	960.03	0	960.04	143.71	43.35	187.06	8.00
8.00	100000.00	0	0	949.10	550.00	963.19	0	963.20	76.92	96.07	173.00	8.00
9.00	0	0	0	952.75	550.00	960.07	0	960.13	97.14	83.73	180.87	9.00
9.00	100000.00	0	0	952.75	550.00	963.20	0	963.25	36.46	136.53	173.00	9.00
9.00	0	0	0	952.75	550.00	960.07	0	960.13	97.13	83.74	180.87	9.00
9.00	100000.00	0	0	952.75	550.00	963.19	0	963.25	36.46	136.53	173.00	9.00
10.00	0	0	0	956.50	550.00	960.53	0	961.30	45.95	35.24	81.19	10.00
10.00	100000.00	0	0	956.50	550.00	963.31	0	963.99	14.00	41.00	55.00	10.00
10.00	0	0	0	956.50	550.00	960.53	0	961.30	45.95	35.24	81.19	10.00
10.00	100000.00	0	0	956.50	550.00	963.31	0	963.99	14.00	41.00	55.00	10.00
11.00	0	0	0	960.15	550.00	964.94	0	965.29	49.98	32.68	82.66	11.00
11.00	100000.00	0	0	960.15	550.00	966.69	0	967.11	20.17	41.00	61.17	11.00
11.00	0	0	0	960.15	550.00	964.94	0	965.29	49.98	32.68	82.66	11.00
11.00	100000.00	0	0	960.15	550.00	966.69	0	967.11	20.17	41.00	61.17	11.00
12.00	0	0	0	963.80	550.00	968.11	0	968.67	47.45	34.29	81.74	12.00
12.00	100000.00	0	0	963.80	550.00	969.47	0	970.36	16.02	41.00	57.02	12.00
12.00	0	0	0	963.80	550.00	968.11	0	968.67	47.44	34.29	81.74	12.00
12.00	100000.00	0	0	963.80	550.00	969.47	0	970.36	16.02	41.00	57.02	12.00

FORM 1001 (REV. 11-78) PREPARED BY THE MISSISSIPPI RIVER COMMISSION

SECNO	ELENC	ELTRD	ELLC	ELMIN	Q	CMSEL	CPIMS	EG	TOPWID	SSTA	ENDST	SECNO
12.50	0	0	0	965.63	550.00	970.20	0	970.63	48.76	33.45	82.22	12.50
12.50	10000.00	0	0	965.63	550.00	971.75	0	972.35	18.14	41.00	59.14	12.50
12.50	10000.00	0	0	965.63	550.00	970.20	0	970.63	48.77	33.45	82.22	12.50
12.50	10000.00	0	0	965.63	550.00	971.75	0	972.35	18.14	41.00	59.14	12.50
14.00	0	0	0	967.73	550.00	973.22	0	973.43	53.64	30.35	83.99	14.00
14.00	10000.00	0	0	967.73	550.00	974.77	0	975.00	25.36	41.00	66.36	14.00
14.00	0	0	0	967.73	550.00	973.22	0	973.43	53.64	30.35	83.99	14.00
14.00	10000.00	0	0	967.73	550.00	974.77	0	975.00	25.36	41.00	66.36	14.00
16.00	0	0	0	970.40	550.00	975.80	0	976.00	57.94	93.61	151.55	16.00
16.00	10000.00	0	0	970.40	550.00	977.10	0	977.35	27.20	97.00	124.20	16.00
16.00	0	0	0	970.40	550.00	975.80	0	976.00	57.94	93.61	151.55	16.00
16.00	10000.00	0	0	970.40	550.00	977.10	0	977.35	27.20	97.00	124.20	16.00
18.00	0	0	0	973.20	550.00	978.64	0	978.84	58.30	93.41	151.71	18.00
18.00	10000.00	0	0	973.20	550.00	979.76	0	980.03	27.35	97.00	124.35	18.00
18.00	0	0	0	973.20	550.00	978.64	0	978.84	58.30	93.41	151.71	18.00
18.00	10000.00	0	0	973.20	550.00	979.76	0	980.03	27.35	97.00	124.35	18.00
20.20	0	0	0	976.40	550.00	981.78	0	981.99	57.68	93.76	151.44	20.20
20.20	10000.00	0	0	976.40	550.00	982.89	0	983.18	26.96	97.00	123.96	20.20
20.20	0	0	0	976.40	550.00	981.78	0	981.99	57.68	93.76	151.44	20.20
20.20	10000.00	0	0	976.40	550.00	982.89	0	983.18	26.96	97.00	123.96	20.20
22.00	0	0	0	979.60	550.00	984.76	0	985.01	55.09	95.23	150.32	22.00
22.00	10000.00	0	0	979.60	550.00	985.87	0	986.22	25.25	97.00	122.25	22.00
22.00	0	0	0	979.60	550.00	984.76	0	985.01	55.09	95.23	150.32	22.00
22.00	10000.00	0	0	979.60	550.00	985.87	0	986.22	25.25	97.00	122.25	22.00
24.00	0	0	0	983.20	550.00	988.43	0	988.67	55.88	94.78	150.66	24.00
24.00	10000.00	0	0	983.20	550.00	989.55	0	989.88	25.76	97.00	122.76	24.00
24.00	0	0	0	983.20	550.00	988.43	0	988.67	55.88	94.78	150.66	24.00
24.00	10000.00	0	0	983.20	550.00	989.55	0	989.88	25.76	97.00	122.76	24.00
25.60	0	0	0	986.10	550.00	991.49	0	991.69	87.43	152.73	240.16	25.60
25.60	10000.00	0	0	986.10	550.00	992.61	0	992.90	31.70	167.00	198.70	25.60
25.60	0	0	0	986.10	550.00	991.49	0	991.69	87.43	152.73	240.16	25.60
25.60	10000.00	0	0	986.10	550.00	992.61	0	992.90	31.70	167.00	198.70	25.60
26.00	0	0	0	986.10	550.00	992.17	992.05	994.51	9.00	167.00	176.00	26.00
26.00	10000.00	0	0	986.10	550.00	993.73	0	995.09	9.00	167.00	176.00	26.00
26.00	0	0	0	986.10	550.00	992.17	992.05	994.51	9.00	167.00	176.00	26.00
26.00	10000.00	0	0	986.10	550.00	993.73	0	995.09	9.00	167.00	176.00	26.00
26.50	0	1004.70	994.20	991.20	550.00	1006.63	0	1006.63	181.82	29.96	211.78	26.50
26.50	10000.00	999999.00	0	991.20	550.00	1008.19	0	1008.19	114.93	60.09	175.02	26.50
26.50	0	1004.70	994.20	991.20	550.00	1006.63	0	1006.63	181.82	29.96	211.78	26.50
26.50	10000.00	999999.00	0	991.20	550.00	1008.19	0	1008.19	114.93	60.09	175.02	26.50
28.00	0	0	0	994.10	410.00	1006.64	0	1006.64	155.55	41.27	196.82	28.00
28.00	10000.00	0	0	994.10	410.00	1008.20	0	1008.20	84.45	74.95	159.40	28.00
28.00	0	0	0	994.10	410.00	1006.64	0	1006.64	155.55	41.27	196.82	28.00
28.00	10000.00	0	0	994.10	410.00	1008.20	0	1008.20	84.45	74.95	159.40	28.00

* * * *

SECNO	ELENCI	ELTRD	ELLC	ELMIN	Q	CWSEL	CRINS	EG	TOPWID	SSTA	ENDBT	SECNO
29,50	0	0	0	997,00	410,00	1006,65	0	1006,66	125,01	55,57	180,58	29,50
29,50	100000,00	0	0	997,00	410,00	1008,21	0	1006,22	58,26	93,97	152,23	29,50
29,50	0	0	0	997,00	410,00	1006,65	0	1006,66	125,01	55,57	180,58	29,50
29,50	100000,00	0	0	997,00	410,00	1008,21	0	1008,22	58,26	93,97	152,23	29,50
31,00	0	0	0	1000,80	410,00	1006,75	0	1006,80	87,78	121,33	209,11	31,00
31,00	100000,00	0	0	1000,80	410,00	1008,28	0	1008,34	35,27	156,73	192,00	31,00
31,00	0	0	0	1000,80	410,00	1006,75	0	1006,80	87,78	121,33	209,11	31,00
31,00	100000,00	0	0	1000,80	410,00	1008,28	0	1008,34	35,27	156,73	192,00	31,00
-0	0	0	0	1002,50	410,00	1007,25	0	1007,40	68,46	135,99	204,45	-0
-0	100000,00	0	0	1002,50	410,00	1008,68	0	1008,89	23,00	169,00	192,00	-0
-0	0	0	0	1002,50	410,00	1007,25	0	1007,40	68,46	135,99	204,45	-0
-0	100000,00	0	0	1002,50	410,00	1008,68	0	1008,89	23,00	169,00	192,00	-0
33,00	0	0	0	1004,20	410,00	1008,70	0	1008,89	64,38	139,09	203,47	33,00
33,00	100000,00	0	0	1004,20	410,00	1010,03	0	1010,32	20,41	171,59	192,00	33,00
33,00	0	0	0	1004,20	410,00	1008,70	0	1008,89	64,38	139,09	203,47	33,00
33,00	100000,00	0	0	1004,20	410,00	1010,03	0	1010,32	20,41	171,59	192,00	33,00
34,00	0	0	0	1005,90	410,00	1010,43	0	1010,62	65,02	138,60	203,62	34,00
34,00	100000,00	0	0	1005,90	410,00	1011,75	0	1012,03	20,86	171,14	192,00	34,00
34,00	0	0	0	1005,90	410,00	1010,43	0	1010,62	65,02	138,60	203,62	34,00
34,00	100000,00	0	0	1005,90	410,00	1011,75	0	1012,03	20,86	171,14	192,00	34,00
35,00	0	0	0	1007,60	410,00	1012,12	0	1012,31	64,79	138,78	203,57	35,00
35,00	100000,00	0	0	1007,60	410,00	1013,43	0	1013,72	20,67	171,33	192,00	35,00
35,00	0	0	0	1007,60	410,00	1012,12	0	1012,31	64,79	138,78	203,57	35,00
35,00	100000,00	0	0	1007,60	410,00	1013,43	0	1013,72	20,67	171,33	192,00	35,00
37,00	0	0	0	1011,30	410,00	1016,55	0	1017,02	56,53	83,73	140,26	37,00
37,00	100000,00	0	0	1011,30	410,00	1017,55	0	1017,96	15,00	85,00	100,00	37,00
37,00	0	0	0	1011,30	410,00	1016,55	0	1017,02	56,53	83,73	140,26	37,00
37,00	100000,00	0	0	1011,30	410,00	1017,55	0	1017,96	15,00	85,00	100,00	37,00

FORM 1-71 PRINTED BY THE OFFICE OF INDUSTRIAL DEVELOPMENT

SUMMARY PRINTOUT

TRIBUTARY D-1 NATURAL

SECNO	CWSEL	VOL	DEPTH	VCH	QLOB	VLOB	QCH	VCH	QROB	VROB	AREA	SECNO
* 2.20	937.84	0	4.14	8.80	38.11	4.63	302.51	8.80	209.39	4.65	87.67	2.20
* 2.20	938.35	0	4.65	11.59	0	0	451.79	11.59	98.20	8.20	50.95	2.20
* 2.20	937.86	0	4.16	8.69	38.20	4.58	300.32	8.69	211.48	4.61	88.76	2.20
* 2.20	938.35	0	4.65	11.59	0	0	451.76	11.59	98.23	8.20	50.97	2.20
* 2.70	941.68	.08	5.58	11.61	0	0	550.00	11.61	0	0	47.38	2.70
2.70	944.84	.07	8.74	7.25	0	0	550.00	7.25	0	0	75.89	2.70
* 2.70	941.64	.08	5.54	11.71	0	0	550.00	11.71	0	0	46.97	2.70
2.70	944.84	.07	8.74	7.25	0	0	550.00	7.25	0	0	75.87	2.70
3.20	960.02	1.76	22.42	.20	395.11	.19	38.90	.20	115.99	.18	2882.11	3.20
3.20	963.19	1.85	25.59	.18	403.69	.18	40.10	.18	106.21	.18	3021.45	3.20
3.20	960.02	1.76	22.42	.20	395.11	.19	38.90	.20	115.99	.18	2881.93	3.20
3.20	963.18	1.85	25.58	.18	403.69	.18	40.10	.18	106.21	.18	3021.11	3.20
3.50	960.03	3.67	21.43	.22	394.33	.21	39.97	.22	115.70	.19	2662.22	3.50
3.50	963.19	3.86	24.59	.20	411.63	.20	42.17	.20	96.20	.18	2803.39	3.50
3.50	960.02	3.67	21.42	.22	394.33	.21	39.98	.22	115.70	.19	2662.06	3.50
3.50	963.18	3.86	24.58	.20	411.63	.20	42.17	.20	96.20	.18	2803.06	3.50
5.50	960.03	14.07	17.23	.31	389.77	.29	45.45	.31	114.78	.29	1870.90	5.50
5.50	963.19	14.92	20.39	.27	416.72	.27	47.18	.27	86.09	.28	2015.89	5.50
5.50	960.03	14.07	17.23	.31	389.77	.29	45.45	.31	114.78	.29	1870.77	5.50
5.50	963.18	14.92	20.38	.27	416.72	.27	47.19	.27	86.09	.28	2015.60	5.50
7.40	960.03	20.49	13.13	.64	443.14	.51	72.96	.64	33.90	.36	1070.62	7.40
7.40	963.19	21.60	16.29	.33	502.65	.50	47.35	.33	0	0	1137.78	7.40
7.40	960.03	20.49	13.13	.64	443.14	.51	72.96	.64	33.90	.36	1070.50	7.40
7.40	963.19	21.79	16.29	.33	502.64	.50	47.36	.33	0	0	1137.56	7.40
8.00	960.04	21.74	10.94	.96	428.56	.73	90.64	.96	30.80	.53	739.54	8.00
8.00	963.19	23.12	14.09	.51	487.74	.73	62.25	.51	0	0	786.89	8.00
8.00	960.03	21.73	10.93	.96	428.55	.73	90.65	.96	30.80	.53	739.43	8.00
8.00	963.19	23.12	14.09	.51	487.74	.73	62.26	.51	0	0	786.71	8.00
9.00	960.07	22.92	7.32	2.58	368.38	1.76	158.39	2.58	23.29	1.28	288.25	9.00
9.00	963.20	24.37	10.45	1.62	404.44	1.97	145.56	1.62	0	0	295.33	9.00
9.00	960.07	22.91	7.32	2.58	368.29	1.77	158.42	2.58	23.29	1.28	288.18	9.00
9.00	963.19	24.36	10.44	1.62	404.42	1.97	145.58	1.62	0	0	295.25	9.00
10.00	960.53	23.35	4.03	7.99	17.16	3.45	355.34	7.99	177.50	4.92	85.51	10.00
10.00	963.31	24.80	6.81	6.59	0	0	550.00	6.59	0	0	83.51	10.00
10.00	960.53	23.34	4.03	7.99	17.15	3.45	355.37	7.99	177.47	4.92	85.49	10.00
10.00	963.31	24.80	6.81	6.59	0	0	550.00	6.59	0	0	83.48	10.00
11.00	964.94	23.58	4.79	5.49	27.27	2.63	303.59	5.49	219.13	3.86	122.40	11.00
11.00	966.69	25.02	6.54	5.45	0	0	434.95	5.45	115.05	4.10	107.87	11.00
11.00	964.94	23.58	4.79	5.49	27.28	2.63	303.58	5.49	219.14	3.86	122.41	11.00
11.00	966.69	25.02	6.54	5.45	0	0	434.95	5.45	115.04	4.10	107.86	11.00
12.00	968.11	23.84	4.31	6.87	20.94	3.10	333.06	6.87	195.99	4.50	98.82	12.00
12.00	969.47	25.23	5.67	7.69	0	0	519.62	7.69	30.38	3.95	75.22	12.00
12.00	968.11	23.84	4.31	6.87	20.94	3.10	333.07	6.87	195.99	4.50	98.82	12.00
12.00	969.47	25.23	5.67	7.69	0	0	519.62	7.69	30.38	3.95	75.22	12.00

COPY 1311 PRINTED BY THE STANFORD REGISTER COMPANY, P. O. BOX 1311, STANFORD, CALIF. 94301

SECNO	CWSEL	VOL	DEPTH	VCH	QLOB	VLOB	QCH	VCH	QROB	VROB	AREA	SECNO
12.50	970.20	23.96	4.57	6.09	24.26	2.84	316.63	6.09	209.11	4.15	110.94	12.50
12.50	971.75	25.33	6.12	6.44	0	0	475.35	6.44	74.65	4.30	91.16	12.50
12.50	970.20	23.96	4.57	6.09	24.26	2.84	316.63	6.09	209.11	4.15	110.94	12.50
12.50	971.75	25.32	6.12	6.44	0	0	475.35	6.44	74.65	4.30	91.16	12.50
14.00	973.22	24.42	5.49	4.20	36.10	2.12	272.97	4.20	240.92	3.15	158.64	14.00
14.00	974.77	25.73	7.04	4.09	0	0	354.20	4.09	195.80	3.53	142.09	14.00
14.00	973.22	24.42	5.49	4.20	36.10	2.12	272.97	4.20	240.92	3.15	158.64	14.00
14.00	974.77	25.72	7.04	4.09	0	0	354.20	4.09	195.80	3.53	142.09	14.00
16.00	975.80	25.14	5.40	4.07	.60	.71	193.51	4.07	355.89	3.40	153.21	16.00
16.00	977.10	26.36	6.70	4.22	0	0	260.65	4.22	289.35	3.95	134.95	16.00
16.00	975.80	25.14	5.40	4.07	.60	.71	193.51	4.07	355.89	3.40	153.21	16.00
16.00	977.10	26.36	6.70	4.22	0	0	260.65	4.22	289.35	3.95	134.95	16.00
18.00	978.64	25.85	5.44	4.02	.70	.72	192.50	4.02	356.80	3.36	155.01	18.00
18.00	979.76	26.96	6.56	4.33	0	0	260.94	4.33	289.06	4.04	131.82	18.00
18.00	978.64	25.84	5.44	4.02	.70	.72	192.50	4.02	356.80	3.36	155.01	18.00
18.00	979.76	26.97	6.56	4.33	0	0	260.94	4.33	289.06	4.04	131.82	18.00
20.20	981.78	26.62	5.38	4.10	.54	.69	194.21	4.10	355.24	3.42	151.99	20.20
20.20	982.89	27.63	6.49	4.45	0	0	265.07	4.45	284.93	4.13	128.55	20.20
20.20	981.78	26.62	5.38	4.10	.54	.69	194.21	4.10	355.24	3.42	151.99	20.20
20.20	982.89	27.63	6.49	4.45	0	0	265.07	4.45	284.93	4.13	128.55	20.20
22.00	984.76	27.22	5.16	4.50	.12	.53	201.94	4.50	347.94	3.68	139.61	22.00
22.00	985.87	28.14	6.27	4.97	0	0	283.76	4.97	266.24	4.52	115.99	22.00
22.00	984.76	27.22	5.16	4.50	.12	.53	201.94	4.50	347.94	3.68	139.61	22.00
22.00	985.87	28.13	6.27	4.97	0	0	283.76	4.97	266.24	4.52	115.99	22.00
24.00	988.43	27.87	5.23	4.37	.22	.59	199.50	4.37	350.28	3.60	143.30	24.00
24.00	989.55	28.68	6.35	4.79	0	0	277.71	4.79	272.29	4.38	120.15	24.00
24.00	988.43	27.87	5.23	4.37	.22	.59	199.50	4.37	350.28	3.60	143.30	24.00
24.00	989.55	28.68	6.35	4.79	0	0	277.71	4.79	272.29	4.38	120.15	24.00
25.60	991.49	28.44	5.39	4.40	20.60	1.81	170.22	4.40	359.19	3.17	163.32	25.60
25.60	992.61	29.13	6.51	4.54	0	0	221.14	4.54	328.86	4.29	125.32	25.60
25.60	991.49	28.43	5.39	4.40	20.60	1.81	170.22	4.40	359.19	3.17	163.32	25.60
25.60	992.61	29.13	6.51	4.54	0	0	221.14	4.54	328.86	4.29	125.32	25.60
* 26.00	992.17	28.53	6.07	12.29	0	0	550.00	12.29	0	0	44.76	26.00
* 26.00	993.73	29.22	7.63	9.35	0	0	550.00	9.35	0	0	58.83	26.00
* 26.00	992.17	28.53	6.07	12.29	0	0	550.00	12.29	0	0	44.76	26.00
* 26.00	993.73	29.21	7.63	9.35	0	0	550.00	9.35	0	0	58.83	26.00
26.50	1006.63	29.37	15.43	.46	317.48	.39	69.88	.46	162.64	.35	1419.05	26.50
26.50	1008.19	30.03	16.99	.46	326.79	.41	77.12	.46	146.09	.38	1361.55	26.50
26.50	1006.63	29.37	15.43	.46	317.48	.39	69.88	.46	162.64	.35	1419.05	26.50
26.50	1008.19	30.03	16.99	.46	326.79	.41	77.12	.46	146.09	.38	1361.55	26.50
28.00	1006.64	33.42	12.54	.54	236.51	.45	64.94	.54	108.55	.39	930.05	28.00
28.00	1008.20	33.81	14.10	.55	251.51	.49	75.28	.55	83.22	.45	835.00	28.00
28.00	1006.64	33.41	12.54	.54	236.51	.45	64.94	.54	108.55	.39	930.05	28.00
28.00	1008.20	33.81	14.10	.55	251.51	.49	75.28	.55	83.22	.45	835.00	28.00

FORM 1-57 PRINTED BY THE HENRIKSEN KLEINER COMPANY, C. S.

SECNO	CWSEL	VOL	DEPTH	VCH	QLOB	VLOB	QCH	VCH	QROB	VROB	AREA	SECNO
29.50	1008.65	35.91	9.65	1.00	221.59	.76	87.18	1.00	101.23	.71	521.01	29.50
29.50	1008.21	36.03	11.21	.99	230.01	.88	103.66	.99	76.33	.87	453.72	29.50
29.50	1006.65	35.91	9.65	1.00	221.59	.76	87.18	1.00	101.23	.71	521.01	29.50
29.50	1008.21	36.03	11.21	.99	230.01	.88	103.66	.99	76.33	.87	453.72	29.50
31.00	1006.75	37.21	5.95	2.26	259.63	1.70	104.36	2.26	46.01	1.39	231.85	31.00
31.00	1008.28	37.16	7.48	1.91	295.53	2.09	114.47	1.91	0	0	201.36	31.00
31.00	1006.75	37.21	5.95	2.26	259.63	1.70	104.36	2.26	46.01	1.39	231.85	31.00
31.00	1008.28	37.16	7.48	1.91	295.53	2.09	114.47	1.91	0	0	201.36	31.00
	7.8											
-0	1007.25	37.64	4.75	3.81	243.51	2.79	134.80	3.81	31.68	2.06	137.94	-0
-0	1008.68	37.52	6.18	3.67	232.93	3.66	177.07	3.67	0	0	111.94	-0
-0	1007.25	37.63	4.75	3.81	243.51	2.79	134.80	3.81	31.68	2.06	137.94	-0
-0	1008.68	37.52	6.18	3.67	232.93	3.66	177.07	3.67	0	0	111.94	-0
33.00	1008.70	37.93	4.50	4.36	238.18	3.15	144.23	4.36	27.59	2.24	121.07	33.00
33.00	1010.03	37.76	5.83	4.45	209.38	4.28	200.62	4.45	0	0	93.99	33.00
33.00	1008.70	37.93	4.50	4.36	238.18	3.15	144.23	4.36	27.59	2.24	121.07	33.00
33.00	1010.03	37.75	5.83	4.45	209.38	4.28	200.62	4.45	0	0	93.99	33.00
34.00	1010.43	38.21	4.53	4.26	239.08	3.09	142.65	4.26	28.26	2.21	123.64	34.00
34.00	1011.75	37.97	5.85	4.33	213.69	4.19	196.31	4.33	0	0	96.33	34.00
34.00	1010.43	38.21	4.53	4.26	239.08	3.09	142.65	4.26	28.26	2.21	123.64	34.00
34.00	1011.75	37.97	5.85	4.33	213.69	4.19	196.31	4.33	0	0	96.33	34.00
35.00	1012.12	38.50	4.52	4.30	238.76	3.11	143.21	4.30	28.02	2.22	122.71	35.00
35.00	1013.43	38.19	5.83	4.39	211.84	4.23	198.16	4.39	0	0	95.16	35.00
35.00	1012.12	38.49	4.52	4.30	238.76	3.11	143.21	4.30	28.02	2.22	122.71	35.00
35.00	1013.43	38.19	5.83	4.39	211.84	4.23	198.16	4.39	0	0	95.16	35.00
37.00	1016.55	38.98	5.25	5.75	.10	.65	373.50	5.75	36.40	1.73	86.12	37.00
37.00	1017.55	38.60	6.25	5.12	0	0	410.00	5.12	0	0	80.08	37.00
37.00	1016.55	38.97	5.25	5.75	.10	.65	373.50	5.75	36.40	1.73	86.12	37.00
37.00	1017.55	38.59	6.25	5.12	0	0	410.00	5.12	0	0	80.08	37.00

- POSSIBLE ERROR SECNO# 2.20 PROFILE# 1 CRITICAL DEPTH ASSUMED
- POSSIBLE ERROR SECNO# 2.20 PROFILE# 2 CRITICAL DEPTH ASSUMED
- POSSIBLE ERROR SECNO# 2.20 PROFILE# 3 CRITICAL DEPTH ASSUMED
- POSSIBLE ERROR SECNO# 2.20 PROFILE# 4 CRITICAL DEPTH ASSUMED
- POSSIBLE ERROR SECNO# 2.70 PROFILE# 1 SLOPE TOO STEEP
- POSSIBLE ERROR SECNO# 2.70 PROFILE# 3 SLOPE TOO STEEP
- POSSIBLE ERROR SECNO# 26.00 PROFILE# 1 SLOPE TOO STEEP
- POSSIBLE ERROR SECNO# 26.00 PROFILE# 2 SLOPE TOO STEEP
- POSSIBLE ERROR SECNO# 26.00 PROFILE# 3 SLOPE TOO STEEP
- POSSIBLE ERROR SECNO# 26.00 PROFILE# 4 SLOPE TOO STEEP

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