
 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

BULL RUN
 Naturals

T1 GUILFORD CO. FIA
 T2 BULL RUN (CR NO. 28) 10 YR FLOOD
 T3 DEC 76 EMF

J1	ICHECK	INO	NINV	IDIR	STRT	METHIC	HVINS	Q	WSEL	FO
	-1.	2.	0.	0.	.004200	0.00	0.0	0.	697.000	0.000
J2	NPROF	IPLUT	PRFVS	XSECV	XSECH	FN	ALLDC	IRW	CHNIM	ITRACE
	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.300	0.000
NC	.120	.120	.060	.200	.400	0.000	0.000	0.000	0.000	0.000
OT	4.000	1500.000	3060.000	4000.000	5450.000	0.000	0.000	0.000	0.000	0.000
X1	400.000	24.000	500.000	547.000	0.000	0.000	0.000	0.000	0.000	- .900
GR	734.000	200.000	725.000	260.000	720.000	300.000	715.000	325.000	710.000	340.000
GR	705.000	360.000	699.500	415.000	696.200	450.000	696.000	490.000	695.900	500.000
GR	698.700	515.000	688.600	528.000	688.900	534.000	694.200	547.000	696.000	560.000
GR	698.900	580.000	700.000	600.000	705.000	645.000	710.000	665.000	715.000	800.000
GR	720.000	835.000	725.000	860.000	730.000	880.000	735.000	970.000	0.000	0.000
X1	590.000	0.000	0.000	0.000	190.000	190.000	190.000	0.000	.900	0.000
NC	0.000	0.000	0.000	.500	1.000	0.000	0.000	0.000	0.000	0.000
X1	639.000	15.000	505.000	534.000	49.000	49.000	49.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	701.000	701.000	0.000
GR	720.000	300.000	715.000	325.000	710.000	340.000	705.000	360.000	696.000	450.000
GR	696.000	505.000	689.500	506.000	689.500	533.000	694.000	534.000	699.000	580.000
GR	700.000	600.000	705.000	645.000	710.000	665.000	715.000	800.000	720.000	835.000
SB	1.250	1.500	3.000	0.000	29.000	2.000	305.000	0.000	689.600	689.500
X1	721.000	14.000	505.000	534.000	82.000	82.000	82.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	700.900	714.300	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	714.300	714.300	0.000
BT	11.000	300.000	720.000	0.000	350.000	717.100	0.000	400.000	715.100	0.000
BT	450.000	714.300	0.000	505.000	714.300	0.000	506.000	714.300	700.900	533.000
BT	715.000	700.900	534.000	715.000	0.000	550.000	715.300	0.000	600.000	717.200
BT	0.000	640.000	720.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	732.000	300.000	727.000	350.000	715.000	400.000	703.000	450.000	699.000	467.000
GR	698.000	505.000	689.600	506.000	689.600	533.000	693.000	534.000	695.000	550.000
GR	697.000	600.000	701.000	640.000	710.000	725.000	720.000	770.000	0.000	0.000
X1	740.000	23.000	500.000	533.000	19.000	19.000	19.000	0.000	0.000	0.000
GR	740.000	240.000	735.000	280.000	730.000	320.000	725.000	365.000	714.400	400.000
GR	702.700	451.000	699.200	467.000	698.400	500.000	689.300	510.000	689.300	517.000
GR	689.900	529.000	692.900	533.000	694.900	550.000	697.100	600.000	701.800	650.000
GR	705.000	690.000	710.000	725.000	715.000	750.000	720.000	770.000	725.000	795.000

X1	7763.000	0.000	0.000	0.000	1.000	1.000	1.000	0.000	0.000	0.000
BT	23.000	200.000	778.400	0.000	300.000	777.900	0.000	390.000	777.500	0.000
BT	500.000	777.300	0.000	503.200	777.300	0.000	503.200	777.300	721.400	503.500
BT	777.300	731.000	504.300	777.300	733.000	505.000	777.300	734.000	506.000	777.300
BT	735.000	508.000	777.300	736.300	509.500	777.300	737.000	512.000	777.300	737.400
BT	514.500	777.300	737.000	516.000	777.300	736.300	518.000	777.300	735.000	519.000
BT	777.300	734.000	519.600	777.300	733.000	520.500	777.300	731.000	520.700	777.300
BT	721.400	520.700	777.300	0.000	580.000	777.200	0.000	890.000	777.000	0.000

X1	7838.000	0.000	0.000	0.000	75.000	75.000	75.000	0.000	0.000	0.000
X2	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	777.300	777.300	0.000
QT	4.000	1400.000	2800.000	3690.000	6700.000	0.000	0.000	0.000	0.000	0.000

X1	7910.000	12.000	500.000	544.000	72.000	72.000	72.000	0.000	0.000	0.000
X5	1.000	0.000	0.000	0.000	750.300	0.000	0.000	0.000	0.000	0.000
GR	750.000	30.000	745.000	250.000	740.000	290.000	735.000	360.000	730.000	450.000
GR	727.100	500.000	723.500	507.000	722.100	516.000	723.400	525.000	739.600	544.000
GR	745.000	570.000	750.000	600.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	.120	.120	.060	.200	.400	0.000	0.000	0.000	0.000	0.000

X1	8220.000	16.000	500.000	542.000	310.000	310.000	310.000	0.000	0.000	0.000
GR	755.000	280.000	750.000	340.000	745.000	370.000	732.200	400.000	729.000	414.000
GR	728.700	500.000	723.600	510.000	722.700	520.000	723.600	530.000	729.000	542.000
GR	732.500	561.000	735.000	570.000	740.000	595.000	745.000	620.000	750.000	650.000
GR	755.000	675.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	8290.000	0.000	0.000	0.000	70.000	70.000	70.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	.500	1.000	0.000	0.000	0.000	0.000	0.000

X1	8298.000	14.000	500.000	524.000	8.000	8.000	8.000	0.000	0.000	0.000
XJ	10.000	0.000	0.000	0.000	0.000	0.000	0.000	737.500	737.500	0.000
GR	753.100	0.000	747.100	100.000	743.600	200.000	741.700	300.000	741.700	400.000
GR	742.700	500.000	742.700	501.000	723.300	501.000	723.300	523.000	742.800	523.000
GR	742.800	524.000	744.800	600.000	748.800	700.000	753.100	795.000	0.000	0.000
SB	1.250	1.500	2.500	0.000	10.000	1.000	266.000	.140	723.500	723.300

X1	8342.000	0.000	0.000	0.000	44.000	44.000	44.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
XJ	10.000	0.000	0.000	0.000	0.000	0.000	0.000	742.300	742.800	0.000
BT	14.000	0.000	753.100	0.000	100.000	747.100	0.000	200.000	743.600	0.000
BT	300.000	741.700	0.000	400.000	741.700	0.000	500.000	742.700	0.000	501.000
BT	742.700	0.000	501.000	742.700	737.500	523.000	742.800	737.500	523.000	742.800
BT	737.500	524.000	742.800	0.000	600.000	744.800	0.000	700.000	748.800	0.000
BT	795.000	753.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	8350.000	12.000	500.000	535.000	8.000	8.000	8.000	0.000	0.000	0.000
GR	750.000	90.000	729.500	200.000	729.300	300.000	729.100	400.000	728.600	500.000
GR	723.900	507.000	723.000	517.000	724.100	527.000	728.300	535.000	735.100	600.000
GR	740.300	625.000	750.000	725.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	8420.000	0.000	0.000	0.000	70.000	70.000	70.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	.200	.400	0.000	0.000	0.000	0.000	0.000

X1	8500.000	0.000	0.000	0.000	80.000	80.000	80.000	0.000	.200	0.000
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X1	9400.000	11.000	500.000	531.000	900.000	900.000	900.000	0.000	-5.000	0.000
GR	750.000	200.000	745.000	300.000	740.000	390.000	737.000	500.000	731.600	508.000
GR	731.000	513.000	732.000	524.000	737.300	531.000	740.000	660.000	745.000	700.000
GR	750.000	720.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	10400.000	0.000	0.000	0.000	1000.000	1000.000	1000.000	0.000	2.000	0.000
X1	11000.000	0.000	0.000	0.000	600.000	600.000	600.000	0.000	2.000	0.000
X1	12480.000	27.000	500.000	531.000	1480.000	1480.000	1480.000	0.000	0.000	0.000
GR	800.000	100.000	795.000	140.000	790.000	180.000	785.000	200.000	780.000	225.000
GR	775.000	270.000	770.000	300.000	765.000	315.000	760.000	340.000	755.000	370.000
GR	751.700	400.000	741.800	450.000	741.100	500.000	735.700	508.000	735.200	513.000
GR	736.300	524.000	741.500	531.000	742.100	600.000	744.500	700.000	748.500	750.000
GR	750.000	820.000	755.000	830.000	760.000	855.000	765.000	880.000	770.000	985.000
GR	775.000	1060.000	800.000	1285.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	13000.000	0.000	0.000	0.000	520.000	520.000	520.000	0.000	1.700	0.000
X1	13500.000	0.000	0.000	0.000	500.000	500.000	500.000	0.000	1.200	0.000
X1	14000.000	17.000	500.000	530.000	500.000	500.000	500.000	0.000	0.000	0.000
GR	770.000	200.000	765.000	280.000	760.000	325.000	755.000	385.000	750.000	430.000
GR	745.000	485.000	744.800	500.000	740.000	507.000	739.500	515.000	740.000	522.000
GR	744.500	530.000	745.000	535.000	750.000	750.000	755.000	770.000	760.000	790.000
GR	765.000	820.000	770.000	860.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	17440.000	20.000	500.000	529.000	3440.000	3440.000	3440.000	0.000	0.000	0.000
GR	800.000	85.000	795.000	180.000	790.000	260.000	785.000	310.000	780.000	350.000
GR	775.900	375.000	772.100	400.000	754.900	444.000	753.400	500.000	748.900	503.000
GR	748.800	511.000	750.100	519.000	755.400	529.000	756.800	600.000	758.400	700.000
GR	762.100	800.000	763.400	825.000	770.000	1030.000	775.000	1080.000	800.000	1500.000
QT	4.000	1010.000	2100.000	2800.000	5025.000	0.000	0.000	0.000	0.000	0.000
X1	20450.000	18.000	500.000	549.000	3010.000	3010.000	3010.000	0.000	0.000	0.000
GR	800.000	170.000	795.000	220.000	790.000	260.000	785.000	300.000	780.000	350.000
GR	773.900	400.000	762.700	500.000	756.700	505.000	756.100	513.000	757.900	530.000
GR	766.200	549.000	768.400	600.000	774.500	700.000	776.400	725.000	785.000	800.000
GR	790.000	890.000	795.000	1030.000	800.000	1080.000	0.000	0.000	0.000	0.000
X1	20506.000	20.000	501.000	537.000	56.000	56.000	56.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	770.500	769.900	0.000
GR	800.000	170.000	795.000	220.000	790.000	260.000	785.000	300.000	780.000	350.000
GR	773.900	400.000	762.700	500.000	757.600	501.000	757.300	515.000	757.300	522.000
GR	758.100	530.000	758.500	537.000	766.200	549.000	768.400	600.000	774.500	700.000
GR	776.600	725.000	785.000	800.000	790.000	890.000	795.000	1030.000	800.000	1080.000
X1	20507.000	0.000	0.000	0.000	1.000	1.000	1.000	0.000	0.000	0.000
BT	16.000	170.000	800.000	0.000	220.000	795.000	0.000	260.000	790.000	0.000
BT	300.000	785.000	0.000	350.000	780.000	0.000	400.000	776.300	0.000	501.000
BT	772.900	0.000	501.000	772.900	770.500	537.000	772.300	769.900	537.000	772.300
BT	0.000	600.000	771.400	0.000	700.000	772.000	0.000	800.000	776.700	0.000
BT	890.000	780.000	0.000	1030.000	788.000	0.000	1080.000	790.000	0.000	0.000

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

T1 GUILFORD CO. FIA
 T2 BULL RUN (CR NO. 28) 50 YR FLOOD
 T3 DEC 76 EMF

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FQ
	-10.	3.	0.	0.	.004200	0.00	0.0	0.	700.000	0.000
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

*PROF 2

CCHV= .200 CEHV= .400

*SECNO 400.000

SECNO	DEPTH	CHSEL	CRIS	WSELK	EG	HV	HL	ULOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
400.00	12.30	700.00	0.00	700.00	700.35	.35	0.00	0.00	695.00
3060.	747.	1958.	355.	358.	343.	177.	0.	0.	693.30
0.00	2.09	5.71	2.00	.120	.060	.120	0.000	687.70	401.00
.004283	0.	0.	0.	0	0	0	0.00	207.10	608.10

*SECNO 590.000

590.00	12.26	700.83	0.00	0.00	701.19	.36	.83	.01	695.90
3060.	740.	1969.	350.	350.	339.	172.	4.	1.	694.20
.01	2.11	5.81	2.04	.120	.060	.120	.060	688.60	401.80
.004493	190.	190.	190.	1	0	0	0.00	205.58	607.38

CCHV= .500 CEHV= 1.000

*SECNO 639.000

639.00	11.53	701.05	0.00	0.00	701.38	.35	.18	.01	696.00
3060.	725.	1911.	424.	404.	329.	245.	5.	1.	694.00
.01	1.79	5.81	1.74	.120	.060	.120	.060	689.50	399.60
.003109	49.	49.	49.	0	0	0	0.00	209.77	609.36

SPECIAL BRIDGE

SB	XK	XKOR	COFO	RULEN	RWC	RWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	3.00	0.00	29.00	2.00	305.00	0.00	689.60	689.50

*SECNO 721.000

3301 HV CHANGED MORE THAN HVINS

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR = 01
 MODIFICATION = 50,51,52

T1 GUILFORD CO, FIA
 T2 BULL RUN (CR NO, 28) 100 YR FLOOD
 T3 DEC 76 EMF

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FO
	10.	4.	0.	0.	.004200	0.00	0.0	0.	701.000	0.000
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

*PROF 3

CCHV= .200 CEHV= .400
 *SECNO 400.000

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	GLUSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
400.00	13.30	701.00	0.00	701.00	701.39	.39	0.00	0.00	695.00
.0000	1071.	2400.	528.	462.	390.	243.	0.	0.	693.30
0.00	2.32	6.16	2.18	.120	.060	.120	0.000	687.70	391.00
.004192	0.	0.	0.	0	0	0	0.00	226.10	617.10

*SECNO 590.000

590.00	13.21	701.81	0.00	0.00	702.21	.40	.82	.01	695.90
4000.	1063.	2415.	522.	451.	385.	236.	5.	1.	694.20
.01	2.35	6.27	2.21	.120	.060	.120	.060	688.60	391.98
.004413	190.	190.	190.	1	0	0	0.00	224.25	616.22

CCHV= .500 CEHV= 1.000

*SECNO 639.000

639.00	12.51	702.01	0.00	0.00	702.40	.39	.19	.00	696.00
4000.	1061.	2290.	650.	512.	358.	323.	6.	1.	694.00
.01	2.07	6.40	2.01	.120	.060	.120	.060	689.50	389.82
.003388	49.	49.	49.	0	0	0	0.00	228.35	618.17

SPECIAL BRIDGE

SB	XK	XKOR	COFU	RULEN	BWC	RWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	3.00	0.00	29.00	2.00	305.00	0.00	689.60	689.50

*SECNO 721.000

3301 HV CHANGED MORE THAN HVINS

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION # 50,51,52

T1 GUILFORD CO, FIA
 T2 BULL RUN ICR NO. 281 500 YR FLOOD
 T3 DEC 76 EMF

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FO
	-10.	5.	0.	0.	204200	0.00	0.0	0.	703.000	0.000
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IRW	CHNIM	TRACE
	15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

*PROF 4

CCHV= .200 CEHV= .400

*SECNO 400.000

SECNO	DEPTH	CHSEL	CRINS	WSELK	EG	HV	HL	ULOSS	BANK ELEV
0	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
400.00	14.57	702.27	0.00	703.00	702.71	.44	0.00	0.00	695.00
5450.	1586.	3044.	820.	609.	449.	339.	0.	0.	693.30
0.00	2.61	6.77	2.42	.120	.060	.120	0.000	687.70	378.29
.004190	0.	0.	0.	0	0	4	0.00	250.25	628.54

*SECNO 590.000

590.00	14.48	703.08	0.00	0.00	703.54	.46	.82	.01	695.90
5450.	1577.	3061.	812.	596.	445.	331.	6.	1.	694.20
.01	2.65	6.89	2.46	.120	.060	.120	.060	688.60	379.33
.004394	190.	190.	190.	0	0	0	0.00	248.28	627.60

CCHV= .500 CEHV= 1.000

*SECNO 639.000

639.00	13.78	703.28	0.00	0.00	703.74	.45	.20	.00	696.00
5450.	1606.	2816.	1028.	666.	394.	437.	8.	1.	694.00
.01	2.41	7.14	2.36	.120	.060	.120	.060	689.50	377.13
.003696	49.	49.	49.	0	0	0	0.00	252.45	629.58

SPECIAL BRIDGE

SB	XK	XKOK	COFU	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	3.00	0.00	29.00	2.00	305.00	0.00	589.60	689.50

*SECNO 721.000

3301 HV CHANGED MORE THAN HVINS

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

6 EMF

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA
400.000	0.00	0.00	0.00	687.70	1500.00	697.96	0.00	698.20	41.94	4.54	500.
400.000	0.00	0.00	0.00	687.70	3060.00	700.00	0.00	700.35	42.83	5.71	877.
400.000	0.00	0.00	0.00	687.70	4000.00	701.00	0.00	701.39	41.92	6.16	1094.
400.000	0.00	0.00	0.00	687.70	5450.00	702.27	0.00	702.71	41.90	6.77	1397.
590.000	190.00	0.00	0.00	688.60	1500.00	698.77	0.00	699.04	45.11	4.66	485.
590.000	190.00	0.00	0.00	688.60	3060.00	700.83	0.00	701.19	44.93	5.81	861.
590.000	190.00	0.00	0.00	688.60	4000.00	701.81	0.00	702.21	44.13	6.27	1072.
590.000	190.00	0.00	0.00	688.60	5450.00	703.08	0.00	703.54	43.94	6.89	1371.
639.000	49.00	0.00	0.00	689.50	1500.00	698.98	0.00	699.47	41.15	5.56	269.
639.000	49.00	0.00	0.00	689.50	3060.00	701.03	0.00	701.38	31.09	5.81	977.
639.000	49.00	0.00	0.00	689.50	4000.00	702.01	0.00	702.40	33.88	6.40	1192.
639.000	49.00	0.00	0.00	689.50	5450.00	703.28	0.00	703.74	36.96	7.14	1497.
721.000	82.00	714.30	700.90	689.60	1500.00	699.08	0.00	699.56	40.01	5.58	269.
721.000	82.00	714.30	700.90	689.60	3060.00	702.26	0.00	703.38	68.97	8.47	361.
721.000	82.00	714.30	700.90	689.60	4000.00	704.68	0.00	706.02	70.12	9.27	431.
721.000	82.00	714.30	700.90	689.60	5450.00	709.27	0.00	710.72	60.32	9.65	564.
740.000	19.00	0.00	0.00	689.30	1500.00	699.58	0.00	699.76	16.87	3.90	616.
740.000	19.00	0.00	0.00	689.30	3060.00	703.75	0.00	703.90	10.50	4.01	1423.
740.000	19.00	0.00	0.00	689.30	4000.00	706.54	0.00	706.66	6.74	3.67	2119.
740.000	19.00	0.00	0.00	689.30	5450.00	711.36	0.00	711.43	3.35	3.10	3533.
770.000	30.00	0.00	0.00	689.30	1500.00	699.64	0.00	699.81	16.41	3.86	625.
770.000	30.00	0.00	0.00	689.30	3060.00	703.78	0.00	703.93	10.37	3.99	1430.
770.000	30.00	0.00	0.00	689.30	4000.00	706.56	0.00	706.68	6.70	3.66	2125.
770.000	30.00	0.00	0.00	689.30	5450.00	711.37	0.00	711.44	3.35	3.10	3535.
1400.000	630.00	0.00	0.00	692.30	1500.00	700.81	0.00	701.01	21.88	4.02	647.
1400.000	630.00	0.00	0.00	692.30	3060.00	704.46	0.00	704.57	9.78	3.56	1791.
1400.000	630.00	0.00	0.00	692.30	4000.00	706.99	0.00	707.07	5.46	3.07	2849.
1400.000	630.00	0.00	0.00	692.30	5450.00	711.57	0.00	711.61	2.08	2.31	5231.
1700.000	300.00	0.00	0.00	694.00	1500.00	701.61	0.00	702.15	57.47	5.90	271.
1700.000	300.00	0.00	0.00	694.00	3060.00	704.63	0.00	705.41	52.45	7.40	545.
1700.000	300.00	0.00	0.00	694.00	4000.00	706.99	0.00	707.63	34.38	7.00	849.
1700.000	300.00	0.00	0.00	694.00	5450.00	711.50	0.00	711.88	15.02	5.78	1610.

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRHS	EG	10K+S	VCH	AREA
1900.000	200.00	0.00	0.00	695.10	1500.00	702.77	0.00	703.28	54.76	5.79	290.
1900.000	200.00	0.00	0.00	695.10	3060.00	705.76	0.00	706.42	46.58	6.99	628.
1900.000	200.00	0.00	0.00	695.10	4000.00	707.76	0.00	708.32	32.71	6.70	938.
1900.000	200.00	0.00	0.00	695.10	5450.00	711.86	0.00	712.19	14.66	5.53	1740.
2500.000	600.00	0.00	0.00	698.60	1500.00	706.16	0.00	706.71	59.35	5.96	268.
2500.000	600.00	0.00	0.00	698.60	3060.00	708.84	0.00	709.73	62.34	7.84	501.
2500.000	600.00	0.00	0.00	698.60	4000.00	710.12	0.00	711.13	61.57	8.54	650.
2500.000	600.00	0.00	0.00	698.60	5450.00	712.93	0.00	713.73	38.80	8.01	1044.
2800.000	300.00	0.00	0.00	700.10	1500.00	707.88	0.00	708.38	52.20	5.73	283.
2800.000	300.00	0.00	0.00	700.10	3060.00	710.69	0.00	711.48	53.55	7.45	538.
2800.000	300.00	0.00	0.00	700.10	4000.00	711.96	0.00	712.86	53.15	8.12	694.
2800.000	300.00	0.00	0.00	700.10	5450.00	714.11	0.00	714.98	43.28	8.32	996.
4600.000	1800.00	0.00	0.00	710.10	1500.00	717.66	0.00	718.18	56.67	5.81	270.
4600.000	1800.00	0.00	0.00	710.10	3060.00	720.50	0.00	721.32	55.70	7.50	505.
4600.000	1800.00	0.00	0.00	710.10	4000.00	721.74	0.00	722.69	55.87	8.21	645.
4600.000	1800.00	0.00	0.00	710.10	5450.00	723.11	0.00	724.28	61.00	9.36	828.
6200.000	1600.00	0.00	0.00	718.80	1500.00	726.07	0.00	726.39	46.32	5.03	490.
6200.000	1600.00	0.00	0.00	718.80	3060.00	728.28	0.00	728.61	37.00	5.64	1001.
6200.000	1600.00	0.00	0.00	718.80	4000.00	729.35	0.00	729.69	34.10	5.90	1278.
6200.000	1600.00	0.00	0.00	718.80	5450.00	730.82	0.00	731.16	30.57	6.19	1679.
7690.000	1490.00	0.00	0.00	721.00	1400.00	731.02	0.00	731.22	23.23	3.60	389.
7690.000	1490.00	0.00	0.00	721.00	2800.00	733.33	0.00	733.71	31.32	4.95	569.
7690.000	1490.00	0.00	0.00	721.00	3690.00	734.37	0.00	734.86	34.53	5.67	664.
7690.000	1490.00	0.00	0.00	721.00	4830.00	735.58	0.00	736.21	36.52	6.40	798.
7762.000	72.00	0.00	0.00	721.40	1400.00	731.10	0.00	732.15	5.95	8.25	169.
7762.000	72.00	0.00	0.00	721.40	2800.00	733.47	0.00	736.20	12.85	13.26	211.
7762.000	72.00	0.00	0.00	721.40	3690.00	734.54	0.00	738.54	17.63	16.05	229.
7762.000	72.00	0.00	0.00	721.40	4830.00	735.79	0.00	741.50	23.53	19.18	251.
7763.000	1.00	777.00	737.40	721.40	1400.00	731.10	727.29	732.19	3.85	8.37	167.
7763.000	1.00	777.00	737.40	721.40	2800.00	733.47	730.70	736.37	8.62	13.67	204.
7763.000	1.00	777.00	737.40	721.40	3690.00	734.54	732.54	738.93	13.22	16.80	219.
7763.000	1.00	777.00	737.40	721.40	4830.00	735.79	734.08	742.44	21.92	20.68	233.
7838.000	75.00	777.00	737.40	721.40	1400.00	731.19	0.00	732.24	6.28	8.23	170.
7838.000	75.00	777.00	737.40	721.40	2800.00	733.86	0.00	736.56	14.35	13.18	212.
7838.000	75.00	777.00	737.40	721.40	3690.00	735.27	0.00	739.26	23.97	16.02	230.
7838.000	75.00	777.00	737.40	721.40	4830.00	736.92	0.00	742.96	39.60	19.72	244.
7910.000	72.00	0.00	0.00	722.10	1400.00	732.60	0.00	732.72	.79	3.19	540.
7910.000	72.00	0.00	0.00	722.10	2800.00	737.82	0.00	737.88	.24	2.24	1478.
7910.000	72.00	0.00	0.00	722.10	3690.00	741.19	0.00	741.23	.12	1.84	2310.
7910.000	72.00	0.00	0.00	722.10	6700.00	750.30	0.00	750.32	.04	1.40	5833.
8220.000	310.00	0.00	0.00	722.70	1400.00	732.67	0.00	732.78	10.82	3.11	725.
8220.000	310.00	0.00	0.00	722.70	2800.00	737.83	0.00	737.91	4.87	2.92	1650.
8220.000	310.00	0.00	0.00	722.70	3690.00	741.18	0.00	741.25	3.23	2.77	2353.
8220.000	310.00	0.00	0.00	722.70	6700.00	750.28	0.00	750.34	1.64	2.65	4742.

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K+S	VCH	AREA
8290.000	70.00	0.00	0.00	722.70	1400.00	732.74	0.00	732.85	10.35	3.06	738.
8290.000	70.00	0.00	0.00	722.70	2800.00	737.86	0.00	737.95	4.83	2.91	1655.
8290.000	70.00	0.00	0.00	722.70	3690.00	741.21	0.00	741.28	3.21	2.76	2357.
8290.000	70.00	0.00	0.00	722.70	6700.00	750.29	0.00	750.35	1.64	2.65	4744.
8298.000	8.00	0.00	0.00	723.30	1400.00	732.76	0.00	733.47	84.52	6.73	207.
8298.000	8.00	0.00	0.00	723.30	2800.00	737.87	0.00	739.06	107.70	8.74	320.
8298.000	8.00	0.00	0.00	723.30	3690.00	741.21	0.00	742.58	110.68	9.37	393.
8298.000	8.00	0.00	0.00	723.30	6700.00	750.30	0.00	750.36	7.73	3.13	4490.
8342.000	44.00	741.70	737.50	723.30	1400.00	732.89	0.00	733.57	81.28	6.64	210.
8342.000	44.00	741.70	737.50	723.30	2800.00	739.50	0.00	740.45	82.07	7.86	356.
8342.000	44.00	741.70	737.50	723.30	3690.00	742.19	0.00	743.42	96.83	8.88	415.
8342.000	44.00	741.70	737.50	723.30	6700.00	750.43	0.00	750.49	7.33	3.06	4582.
8350.000	8.00	0.00	0.00	723.00	1400.00	733.89	0.00	733.91	2.52	1.65	1948.
8350.000	8.00	0.00	0.00	723.00	2800.00	740.92	0.00	740.93	.60	1.18	5133.
8350.000	8.00	0.00	0.00	723.00	3690.00	744.02	0.00	744.03	.47	1.17	6733.
8350.000	8.00	0.00	0.00	723.00	6700.00	750.50	0.00	750.51	.44	1.36	10570.
8420.000	70.00	0.00	0.00	723.00	1400.00	733.91	0.00	733.93	2.50	1.65	1954.
8420.000	70.00	0.00	0.00	723.00	2800.00	740.93	0.00	740.93	.60	1.18	5135.
8420.000	70.00	0.00	0.00	723.00	3690.00	744.02	0.00	744.03	.47	1.17	6735.
8420.000	70.00	0.00	0.00	723.00	6700.00	750.51	0.00	750.51	.45	1.36	10572.
8500.000	80.00	0.00	0.00	723.20	1400.00	733.93	0.00	733.95	2.78	1.71	1880.
8500.000	80.00	0.00	0.00	723.20	2800.00	740.93	0.00	740.94	.64	1.20	5039.
8500.000	80.00	0.00	0.00	723.20	3690.00	744.03	0.00	744.03	.50	1.19	6629.
8500.000	80.00	0.00	0.00	723.20	6700.00	750.51	0.00	750.52	.45	1.38	10447.
9400.000	900.00	0.00	0.00	726.00	1400.00	734.32	0.00	734.81	57.74	6.05	395.
9400.000	900.00	0.00	0.00	726.00	2800.00	741.03	0.00	741.06	3.51	2.40	2657.
9400.000	900.00	0.00	0.00	726.00	3690.00	744.09	0.00	744.12	1.94	2.06	4073.
9400.000	900.00	0.00	0.00	726.00	6700.00	750.56	0.00	750.58	1.16	1.99	7423.
10400.000	1000.00	0.00	0.00	728.00	1400.00	737.72	0.00	737.89	18.42	3.90	761.
10400.000	1000.00	0.00	0.00	728.00	2800.00	741.49	0.00	741.56	7.09	3.14	2033.
10400.000	1000.00	0.00	0.00	728.00	3690.00	744.34	0.00	744.38	3.60	2.59	3236.
10400.000	1000.00	0.00	0.00	728.00	6700.00	750.70	0.00	750.73	1.75	2.31	6458.
11000.000	600.00	0.00	0.00	730.00	1400.00	739.08	0.00	739.36	31.68	4.83	579.
11000.000	600.00	0.00	0.00	730.00	2800.00	742.05	0.00	742.19	15.19	4.21	1503.
11000.000	600.00	0.00	0.00	730.00	3690.00	744.62	0.00	744.70	7.28	3.39	2486.
11000.000	600.00	0.00	0.00	730.00	6700.00	750.82	0.00	750.87	2.83	2.75	5482.
12480.000	1480.00	0.00	0.00	735.20	1400.00	743.92	0.00	744.18	33.51	4.80	558.
12480.000	1480.00	0.00	0.00	735.20	2800.00	745.43	0.00	745.79	42.21	6.17	960.
12480.000	1480.00	0.00	0.00	735.20	3690.00	746.53	0.00	746.85	36.48	6.22	1277.
12480.000	1480.00	0.00	0.00	735.20	6700.00	751.53	0.00	751.67	12.35	4.81	3096.
13000.000	520.00	0.00	0.00	736.90	1400.00	745.64	0.00	745.90	32.59	4.75	567.
13000.000	520.00	0.00	0.00	736.90	2800.00	747.47	0.00	747.76	33.69	5.66	1055.
13000.000	520.00	0.00	0.00	736.90	3690.00	748.38	0.00	748.68	33.50	6.03	1321.
13000.000	520.00	0.00	0.00	736.90	6700.00	752.26	0.00	752.46	17.82	5.52	2691.

SECNO	XLCH	FLTRD	ELLC	ELMIN	O	CWSEL	CRHS	EG	10K+S	VCH	AREA
13500.000	500.00	0.00	0.00	738.10	1400.00	747.15	0.00	747.35	25.62	4.34	640.
13500.000	500.00	0.00	0.00	738.10	2800.00	749.03	0.00	749.27	26.74	5.18	1159.
13500.000	500.00	0.00	0.00	738.10	3690.00	749.94	0.00	750.19	27.23	5.57	1433.
13500.000	500.00	0.00	0.00	738.10	6700.00	753.19	0.00	753.41	19.87	5.74	2579.
14000.000	500.00	0.00	0.00	739.50	1400.00	748.42	0.00	748.66	26.25	4.55	609.
14000.000	500.00	0.00	0.00	739.50	2800.00	750.38	0.00	750.65	28.11	5.50	1168.
14000.000	500.00	0.00	0.00	739.50	3690.00	751.30	0.00	751.57	27.43	5.78	1472.
14000.000	500.00	0.00	0.00	739.50	6700.00	754.21	0.00	754.46	21.68	6.07	2508.
17440.000	3440.00	0.00	0.00	748.80	1400.00	757.81	0.00	758.03	28.29	4.52	576.
17440.000	3440.00	0.00	0.00	748.80	2800.00	759.89	0.00	760.12	26.94	5.23	1151.
17440.000	3440.00	0.00	0.00	748.80	3690.00	760.79	0.00	761.04	27.61	5.53	1441.
17440.000	3440.00	0.00	0.00	748.80	6700.00	762.97	0.00	763.28	30.64	6.75	2237.
20450.000	3010.00	0.00	0.00	756.10	1010.00	765.00	0.00	765.18	19.01	3.45	312.
20450.000	3010.00	0.00	0.00	756.10	2100.00	767.58	0.00	767.91	24.26	4.76	542.
20450.000	3010.00	0.00	0.00	756.10	2800.00	768.76	0.00	769.16	25.75	5.35	711.
20450.000	3010.00	0.00	0.00	756.10	5025.00	771.58	0.00	772.10	27.05	6.51	1263.
20506.000	56.00	0.00	0.00	757.30	1010.00	765.08	0.00	765.30	17.23	3.77	267.
20506.000	56.00	0.00	0.00	757.30	2100.00	767.61	0.00	768.14	29.41	5.85	358.
20506.000	56.00	0.00	0.00	757.30	2800.00	768.71	0.00	769.48	37.64	7.02	398.
20506.000	56.00	0.00	0.00	757.30	5025.00	771.67	0.00	772.29	25.58	7.28	1298.
20507.000	1.00	771.40	770.50	757.30	1010.00	765.03	0.00	765.33	30.88	4.51	247.
20507.000	1.00	771.40	770.50	757.30	2100.00	767.50	0.00	768.22	49.84	6.95	339.
20507.000	1.00	771.40	770.50	757.30	2800.00	768.56	0.00	769.59	62.94	8.36	376.
20507.000	1.00	771.40	770.50	757.30	5025.00	770.64	766.95	772.99	306.86	12.72	430.
20533.000	26.00	771.40	770.50	757.30	1010.00	765.12	0.00	765.41	29.64	4.45	250.
20533.000	26.00	771.40	770.50	757.30	2100.00	767.65	0.00	768.35	47.34	6.84	345.
20533.000	26.00	771.40	770.50	757.30	2800.00	768.76	0.00	769.76	59.16	8.21	383.
20533.000	26.00	771.40	770.50	757.30	5025.00	771.44	766.95	773.79	306.83	12.72	431.
20534.000	1.00	0.00	0.00	757.30	1010.00	765.22	0.00	765.43	16.22	3.70	272.
20534.000	1.00	0.00	0.00	757.30	2100.00	767.88	0.00	768.39	27.00	5.70	368.
20534.000	1.00	0.00	0.00	757.30	2800.00	769.10	0.00	769.82	33.83	6.79	412.
20534.000	1.00	0.00	0.00	757.30	5025.00	773.87	0.00	774.19	12.38	5.58	1872.
20580.000	46.00	0.00	0.00	757.30	1010.00	765.33	0.00	765.50	12.95	3.47	348.
20580.000	46.00	0.00	0.00	757.30	2100.00	768.20	0.00	768.52	16.46	4.83	639.
20580.000	46.00	0.00	0.00	757.30	2800.00	769.64	0.00	769.99	16.67	5.29	875.
20580.000	46.00	0.00	0.00	757.30	5025.00	773.93	0.00	774.25	12.10	5.53	1893.
21000.000	420.00	0.00	0.00	759.20	1010.00	766.00	0.00	766.26	24.04	4.21	269.
21000.000	420.00	0.00	0.00	759.20	2100.00	768.98	0.00	769.43	25.92	5.63	497.
21000.000	420.00	0.00	0.00	759.20	2800.00	770.40	0.00	770.92	25.94	6.18	685.
21000.000	420.00	0.00	0.00	759.20	5025.00	774.47	0.00	774.94	18.84	6.51	1518.
23080.000	2080.00	0.00	0.00	765.40	1010.00	772.61	0.00	772.87	43.89	5.46	403.
23080.000	2080.00	0.00	0.00	765.40	2100.00	775.23	0.00	775.47	32.31	5.87	816.
23080.000	2080.00	0.00	0.00	765.40	2800.00	776.48	0.00	776.73	29.55	6.11	1047.
23080.000	2080.00	0.00	0.00	765.40	5025.00	779.40	0.00	779.68	27.58	6.96	1661.

SECNO	XLCH	ELTRD	ELLC	ELHIN	Q	CHSEL	CRHS	EG	10K*S	VCH	AREA
25000.000	1920.00	0.00	0.00	774.90	850.00	780.46	0.00	780.67	37.06	3.89	306.
25000.000	1920.00	0.00	0.00	774.90	1700.00	782.01	0.00	782.31	40.18	5.00	535.
25000.000	1920.00	0.00	0.00	774.90	2300.00	782.90	0.00	783.25	40.17	5.50	689.
25000.000	1920.00	0.00	0.00	774.90	4100.00	785.22	0.00	785.63	35.35	6.30	1167.
* 25040.000	40.00	0.00	0.00	795.70	850.00	796.67	796.67	797.04	571.52	5.06	187.
* 25040.000	40.00	0.00	0.00	795.70	1700.00	797.14	797.14	797.68	456.19	6.17	322.
* 25040.000	40.00	0.00	0.00	795.70	2300.00	797.38	797.38	798.04	443.66	6.85	398.
* 25040.000	40.00	0.00	0.00	795.70	4100.00	798.00	798.00	798.96	412.69	8.33	596.
25100.000	60.00	0.00	0.00	775.30	850.00	797.12	0.00	797.12	.04	.37	4570.
25100.000	60.00	0.00	0.00	775.30	1700.00	797.79	0.00	797.79	.14	.70	4816.
25100.000	60.00	0.00	0.00	775.30	2300.00	798.17	0.00	798.18	.23	.92	4958.
25100.000	60.00	0.00	0.00	775.30	4100.00	799.14	0.00	799.16	.61	1.53	5325.
25200.000	100.00	0.00	0.00	775.40	850.00	797.12	0.00	797.12	.04	.37	4535.
25200.000	100.00	0.00	0.00	775.40	1700.00	797.79	0.00	797.80	.14	.70	4779.
25200.000	100.00	0.00	0.00	775.40	2300.00	798.18	0.00	798.18	.24	.92	4921.
25200.000	100.00	0.00	0.00	775.40	4100.00	799.15	0.00	799.17	.62	1.54	5289.
27520.000	2320.00	0.00	0.00	790.90	850.00	797.14	0.00	797.16	7.34	2.13	845.
27520.000	2320.00	0.00	0.00	790.90	1700.00	797.86	0.00	797.94	17.75	3.58	1014.
27520.000	2320.00	0.00	0.00	790.90	2300.00	798.29	0.00	798.41	24.70	4.41	1121.
27520.000	2320.00	0.00	0.00	790.90	4100.00	799.48	0.00	799.70	40.21	6.24	1432.
28000.000	480.00	0.00	0.00	792.50	850.00	797.64	0.00	797.70	28.88	3.28	567.
28000.000	480.00	0.00	0.00	792.50	1700.00	798.81	0.00	798.92	35.33	4.31	867.
28000.000	480.00	0.00	0.00	792.50	2300.00	799.48	0.00	799.61	37.43	4.81	1057.
28000.000	480.00	0.00	0.00	792.50	4100.00	801.08	0.00	801.26	38.73	5.76	1559.
29320.000	1320.00	0.00	0.00	797.20	850.00	802.93	0.00	803.23	63.44	5.23	279.
29320.000	1320.00	0.00	0.00	797.20	1700.00	804.65	0.00	805.04	60.91	6.38	509.
29320.000	1320.00	0.00	0.00	797.20	2300.00	805.51	0.00	805.94	60.86	6.95	645.
29320.000	1320.00	0.00	0.00	797.20	4100.00	807.35	0.00	807.92	64.75	8.39	967.
30060.000	740.00	0.00	0.00	799.20	850.00	806.43	0.00	806.66	35.08	4.40	367.
30060.000	740.00	0.00	0.00	799.20	1700.00	808.06	0.00	808.28	32.40	5.01	753.
30060.000	740.00	0.00	0.00	799.20	2300.00	808.89	0.00	809.12	31.18	5.28	979.
30060.000	740.00	0.00	0.00	799.20	4100.00	810.84	0.00	811.09	29.29	5.92	1568.
30760.000	700.00	0.00	0.00	803.60	850.00	809.90	0.00	810.35	82.51	6.05	276.
30760.000	700.00	0.00	0.00	803.60	1700.00	811.23	0.00	811.64	74.03	6.72	562.
30760.000	700.00	0.00	0.00	803.60	2300.00	811.94	0.00	812.35	70.97	7.08	726.
30760.000	700.00	0.00	0.00	803.60	4100.00	813.67	0.00	814.10	65.20	7.88	1152.
32240.000	1490.00	0.00	0.00	809.00	850.00	815.91	0.00	815.99	21.18	3.22	640.
32240.000	1490.00	0.00	0.00	809.00	1700.00	817.23	0.00	817.32	22.76	3.86	1031.
32240.000	1490.00	0.00	0.00	809.00	2300.00	817.96	0.00	818.06	23.54	4.20	1261.
32240.000	1490.00	0.00	0.00	809.00	4100.00	819.68	0.00	819.81	24.76	4.95	1855.
32263.000	23.00	0.00	0.00	809.40	850.00	816.04	0.00	818.31	373.06	12.08	70.
32263.000	23.00	0.00	0.00	809.40	1700.00	817.34	0.00	818.09	128.48	9.70	504.
32263.000	23.00	0.00	0.00	809.40	2300.00	818.06	0.00	818.66	108.88	9.51	699.
32263.000	23.00	0.00	0.00	809.40	4100.00	819.78	0.00	820.22	81.74	9.36	1218.

SECNO	XLCH	ELTRD	ELLC	ELMIN	0	CWSEL	CRWS	EG	10K+S	VCH	AREA
* 32264,000	1.00	818.10	816.60	809.40	850.00	819.03	819.03	819.42	45.62	6.23	204.
* 32264,000	1.00	818.10	816.60	809.40	1700.00	819.43	819.43	820.13	77.30	8.46	281.
* 32264,000	1.00	818.10	816.60	809.40	2300.00	819.71	819.71	820.51	80.64	8.89	345.
* 32264,000	1.00	818.10	816.60	809.40	4100.00	820.45	820.45	821.49	77.80	9.35	518.
32297,000	33.00	818.10	817.30	810.10	850.00	819.45	0.00	819.62	18.77	4.17	284.
32297,000	33.00	818.10	817.30	810.10	1700.00	820.25	0.00	820.47	18.14	4.43	464.
32297,000	33.00	818.10	817.30	810.10	2300.00	820.58	0.00	820.88	20.88	4.90	540.
32297,000	33.00	818.10	817.30	810.10	4100.00	821.49	0.00	821.91	20.85	5.28	799.
32298,000	1.00	0.00	0.00	810.10	850.00	819.68	0.00	819.70	.39	1.47	965.
32298,000	1.00	0.00	0.00	810.10	1700.00	820.54	0.00	820.57	.77	2.19	1235.
32298,000	1.00	0.00	0.00	810.10	2300.00	820.95	0.00	821.00	1.04	2.61	1373.
32298,000	1.00	0.00	0.00	810.10	4100.00	821.99	0.00	822.08	1.66	3.51	1733.
32320,000	22.00	0.00	0.00	810.80	850.00	819.68	0.00	819.70	3.38	1.58	1240.
32320,000	22.00	0.00	0.00	810.80	1700.00	820.54	0.00	820.58	7.48	2.53	1525.
32320,000	22.00	0.00	0.00	810.80	2300.00	820.96	0.00	821.01	10.55	3.11	1670.
32320,000	22.00	0.00	0.00	810.80	4100.00	822.00	0.00	822.10	18.70	4.46	2044.

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
400.000	1500.00	697.96	0.00	0.00	.96	157.87	0.00
400.000	3060.00	700.00	0.00	0.00	0.00	207.10	0.00
400.000	4000.00	701.00	0.00	0.00	0.00	226.10	0.00
400.000	5450.00	702.27	1.27	0.00	-.73	250.25	0.00
590.000	1500.00	698.77	0.00	.82	0.00	156.27	190.00
590.000	3060.00	700.83	0.00	.83	0.00	205.58	190.00
590.000	4000.00	701.81	0.00	.81	0.00	224.25	190.00
590.000	5450.00	703.08	1.27	.81	0.00	248.28	190.00
639.000	1500.00	698.98	0.00	.21	0.00	29.00	49.00
639.000	3060.00	701.03	0.00	.21	0.00	209.77	49.00
639.000	4000.00	702.01	0.00	.20	0.00	228.35	49.00
639.000	5450.00	703.28	1.27	.21	0.00	252.45	49.00
721.000	1500.00	699.08	0.00	.10	0.00	29.00	82.00
721.000	3060.00	702.26	0.00	1.23	0.00	29.00	82.00
721.000	4000.00	704.68	0.00	2.67	0.00	29.00	82.00
721.000	5450.00	709.27	4.59	5.99	0.00	29.00	82.00
740.000	1500.00	699.58	0.00	.50	0.00	161.21	19.00
740.000	3060.00	703.75	0.00	1.49	0.00	227.91	19.00
740.000	4000.00	706.54	0.00	1.86	0.00	266.56	19.00
740.000	5450.00	711.36	4.81	2.08	0.00	318.56	19.00
770.000	1500.00	699.64	0.00	.05	0.00	161.99	30.00
770.000	3060.00	703.78	0.00	.03	0.00	228.47	30.00
770.000	4000.00	706.56	0.00	.02	0.00	266.80	30.00
770.000	5450.00	711.37	4.80	.01	0.00	318.60	30.00
1400.000	1500.00	700.81	0.00	1.17	0.00	249.39	630.00
1400.000	3060.00	704.46	0.00	.68	0.00	375.83	630.00
1400.000	4000.00	706.99	0.00	.43	0.00	461.98	630.00
1400.000	5450.00	711.57	4.58	.21	0.00	562.07	630.00
1700.000	1500.00	701.61	0.00	.80	0.00	67.01	300.00
1700.000	3060.00	704.63	0.00	.17	0.00	114.09	300.00
1700.000	4000.00	706.99	0.00	-.01	0.00	142.72	300.00
1700.000	5450.00	711.50	4.51	-.08	0.00	194.67	300.00
1900.000	1500.00	702.77	0.00	1.15	0.00	81.57	200.00
1900.000	3060.00	705.76	0.00	1.13	0.00	140.31	200.00
1900.000	4000.00	707.76	0.00	.78	0.00	167.82	200.00
1900.000	5450.00	711.86	4.10	.36	0.00	223.79	200.00
2500.000	1500.00	706.16	0.00	3.40	0.00	66.06	600.00
2500.000	3060.00	708.84	0.00	3.08	0.00	107.26	600.00
2500.000	4000.00	710.12	0.00	2.35	0.00	126.18	600.00
2500.000	5450.00	712.93	2.81	1.06	0.00	154.27	600.00
2800.000	1500.00	707.88	0.00	1.72	0.00	69.44	300.00
2800.000	3060.00	710.69	0.00	1.84	0.00	112.52	300.00
2800.000	4000.00	711.96	0.00	1.85	0.00	129.63	300.00
2800.000	5450.00	714.11	2.15	1.19	0.00	151.13	300.00

SECNO	Q	CHSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
4600.000	1500.00	717.66	0.00	9.78	0.00	63.23	1800.00
4600.000	3060.00	720.50	0.00	9.81	0.00	103.02	1800.00
4600.000	4000.00	721.74	0.00	9.75	0.00	122.89	1800.00
4600.000	5450.00	723.11	1.37	9.00	0.00	144.79	1800.00
6200.000	1500.00	726.07	0.00	8.42	0.00	211.86	1600.00
6200.000	3060.00	728.28	0.00	7.78	0.00	249.80	1600.00
6200.000	4000.00	729.35	0.00	7.61	0.00	268.14	1600.00
6200.000	5450.00	730.82	1.46	7.70	0.00	282.00	1600.00
7690.000	1400.00	731.02	0.00	4.95	0.00	70.87	1490.00
7690.000	2800.00	733.33	0.00	5.05	0.00	85.94	1490.00
7690.000	3690.00	734.37	0.00	5.01	0.00	99.55	1490.00
7690.000	4830.00	735.58	1.22	4.77	0.00	120.10	1490.00
7762.000	1400.00	731.10	0.00	.08	0.00	17.50	72.00
7762.000	2800.00	733.47	0.00	.14	0.00	17.50	72.00
7762.000	3690.00	734.54	0.00	.17	0.00	17.50	72.00
7762.000	4830.00	735.79	1.25	.21	0.00	17.50	72.00
7763.000	1400.00	731.10	0.00	.00	0.00	300.23	1.00
7763.000	2800.00	733.47	0.00	.00	0.00	354.82	1.00
7763.000	3690.00	734.54	0.00	.00	0.00	379.48	1.00
7763.000	4830.00	735.79	1.25	.00	0.00	405.91	1.00
7838.000	1400.00	731.19	0.00	.09	0.00	17.50	75.00
7838.000	2800.00	733.86	0.00	.39	0.00	17.50	75.00
7838.000	3690.00	735.27	0.00	.73	0.00	17.50	75.00
7838.000	4830.00	736.92	1.65	1.12	0.00	17.50	75.00
7910.000	1400.00	732.60	0.00	1.41	0.00	132.47	72.00
7910.000	2800.00	737.82	0.00	3.97	0.00	221.41	72.00
7910.000	3690.00	741.19	0.00	5.92	0.00	271.16	72.00
7910.000	6700.00	750.30	9.11	13.38	0.00	570.00	72.00
8220.000	1400.00	732.67	0.00	.07	0.00	162.69	310.00
8220.000	2800.00	737.83	0.00	.00	0.00	197.33	310.00
8220.000	3690.00	741.18	0.00	-.01	0.00	221.97	310.00
8220.000	6700.00	750.26	9.10	-.02	0.00	314.80	310.00
8290.000	1400.00	732.74	0.00	.08	0.00	163.15	70.00
8290.000	2800.00	737.86	0.00	.03	0.00	197.52	70.00
8290.000	3690.00	741.21	0.00	.02	0.00	222.10	70.00
8290.000	6700.00	750.29	9.09	.01	0.00	314.90	70.00
8298.000	1400.00	732.76	0.00	.02	0.00	22.00	8.00
8298.000	2800.00	737.87	0.00	.01	0.00	22.00	8.00
8298.000	3690.00	741.21	0.00	.01	0.00	22.00	8.00
8298.000	6700.00	750.30	9.08	.00	0.00	686.30	8.00
8342.000	1400.00	732.89	0.00	.13	0.00	22.00	44.00
8342.000	2800.00	739.50	0.00	1.62	0.00	22.00	44.00
8342.000	3690.00	742.19	0.00	.98	0.00	22.00	44.00
8342.000	6700.00	750.43	8.24	.13	0.00	691.48	44.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
8350.000	1400.00	733.89	0.00	1.00	0.00	412.07	8.00
8350.000	2800.00	740.92	0.00	1.43	0.00	492.72	8.00
8350.000	3690.00	744.02	0.00	1.83	0.00	541.25	8.00
8350.000	6700.00	750.50	6.48	.07	0.00	635.00	8.00
8420.000	1400.00	733.91	0.00	.02	0.00	412.30	70.00
8420.000	2800.00	740.93	0.00	.00	0.00	492.78	70.00
8420.000	3690.00	744.02	0.00	.00	0.00	541.29	70.00
8420.000	6700.00	750.51	6.48	.00	0.00	635.00	70.00
8500.000	1400.00	733.93	0.00	.02	0.00	409.61	80.00
8500.000	2800.00	740.93	0.00	.00	0.00	489.72	80.00
8500.000	3690.00	744.03	0.00	.00	0.00	538.22	80.00
8500.000	6700.00	750.51	6.48	.00	0.00	635.00	80.00
9400.000	1400.00	734.32	0.00	.39	0.00	212.77	900.00
9400.000	2800.00	741.03	0.00	.09	0.00	424.64	900.00
9400.000	3690.00	744.09	0.00	.07	0.00	498.26	900.00
9400.000	6700.00	750.56	6.47	.05	0.00	520.00	900.00
10400.000	1400.00	737.72	0.00	3.40	0.00	288.82	1000.00
10400.000	2800.00	741.49	0.00	.46	0.00	386.75	1000.00
10400.000	3690.00	744.34	0.00	.25	0.00	456.22	1000.00
10400.000	6700.00	750.70	6.36	.14	0.00	520.00	1000.00
11000.000	1400.00	739.08	0.00	1.35	0.00	271.99	600.00
11000.000	2800.00	742.05	0.00	.56	0.00	349.26	600.00
11000.000	3690.00	744.62	0.00	.28	0.00	414.85	600.00
11000.000	6700.00	750.82	6.21	.12	0.00	520.00	600.00
12480.000	1400.00	743.92	0.00	4.84	0.00	236.01	1480.00
12480.000	2800.00	745.43	0.00	3.39	0.00	280.03	1480.00
12480.000	3690.00	746.53	0.00	1.91	0.00	299.25	1480.00
12480.000	6700.00	751.53	5.00	.70	0.00	422.18	1480.00
13000.000	1400.00	745.64	0.00	1.73	0.00	237.62	520.00
13000.000	2800.00	747.47	0.00	2.04	0.00	285.92	520.00
13000.000	3690.00	748.38	0.00	1.85	0.00	301.81	520.00
13000.000	6700.00	752.26	3.88	.73	0.00	415.36	520.00
13500.000	1400.00	747.15	0.00	1.50	0.00	251.72	500.00
13500.000	2800.00	749.03	0.00	1.56	0.00	292.26	500.00
13500.000	3690.00	749.94	0.00	1.57	0.00	308.26	500.00
13500.000	6700.00	753.19	3.24	.93	0.00	413.44	500.00
14000.000	1400.00	748.42	0.00	1.28	0.00	234.87	500.00
14000.000	2800.00	750.38	0.00	1.35	0.00	324.92	500.00
14000.000	3690.00	751.30	0.00	1.35	0.00	336.84	500.00
14000.000	6700.00	754.21	2.91	1.02	0.00	374.72	500.00
17440.000	1400.00	757.81	0.00	9.39	0.00	226.11	3440.00
17440.000	2800.00	759.89	0.00	9.51	0.00	309.06	3440.00
17440.000	3690.00	760.79	0.00	9.49	0.00	335.68	3440.00
17440.000	6700.00	762.97	2.18	8.76	0.00	393.25	3440.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
20450.000	1010.00	765.00	0.00	7.19	0.00	66.77	3010.00
20450.000	2100.00	767.58	0.00	7.69	0.00	124.72	3010.00
20450.000	2800.00	768.76	0.00	7.97	0.00	160.04	3010.00
20450.000	5025.00	771.58	2.82	8.60	0.00	231.47	3010.00
20506.000	1010.00	765.08	0.00	.08	0.00	36.00	56.00
20506.000	2100.00	767.61	0.00	.03	0.00	36.00	56.00
20506.000	2800.00	768.71	0.00	-.04	0.00	36.00	56.00
20506.000	5025.00	771.67	2.96	.10	0.00	233.74	56.00
20507.000	1010.00	765.03	0.00	-.05	0.00	67.97	1.00
20507.000	2100.00	767.50	0.00	-.10	0.00	122.07	1.00
20507.000	2800.00	768.56	0.00	-.15	0.00	154.97	1.00
20507.000	5025.00	770.64	2.07	-1.04	0.00	207.50	1.00
20533.000	1010.00	765.12	0.00	.09	0.00	68.89	26.00
20533.000	2100.00	767.65	0.00	.15	0.00	126.96	26.00
20533.000	2800.00	768.76	0.00	.20	0.00	160.13	26.00
20533.000	5025.00	771.44	2.67	.80	0.00	227.70	26.00
20534.000	1010.00	765.22	0.00	.10	0.00	36.00	1.00
20534.000	2100.00	767.88	0.00	.23	0.00	36.00	1.00
20534.000	2800.00	769.10	0.00	.34	0.00	36.00	1.00
20534.000	5025.00	773.87	4.77	2.43	0.00	289.33	1.00
20580.000	1010.00	765.33	0.00	.11	0.00	71.06	46.00
20580.000	2100.00	768.20	0.00	.32	0.00	144.48	46.00
20580.000	2800.00	769.64	0.00	.53	0.00	182.21	46.00
20580.000	5025.00	773.93	4.30	.06	0.00	291.11	46.00
21000.000	1010.00	766.00	0.00	.67	0.00	58.20	420.00
21000.000	2100.00	768.98	0.00	.78	0.00	108.46	420.00
21000.000	2800.00	770.40	0.00	.77	0.00	153.54	420.00
21000.000	5025.00	774.47	4.06	.53	0.00	256.47	420.00
23080.000	1010.00	772.61	0.00	6.61	0.00	132.87	2080.00
23080.000	2100.00	775.23	0.00	6.25	0.00	175.75	2080.00
23080.000	2800.00	776.48	0.00	6.08	0.00	192.00	2080.00
23080.000	5025.00	779.40	2.91	4.93	0.00	229.77	2080.00
25000.000	850.00	780.46	0.00	7.85	0.00	132.31	1920.00
25000.000	1700.00	782.01	0.00	6.78	0.00	163.90	1920.00
25000.000	2300.00	782.90	0.00	6.42	0.00	182.01	1920.00
25000.000	4100.00	785.22	2.32	5.82	0.00	227.80	1920.00
* 25040.000	850.00	796.67	0.00	16.20	0.00	269.35	40.00
* 25040.000	1700.00	797.14	0.00	15.12	0.00	306.96	40.00
* 25040.000	2300.00	797.38	0.00	14.48	0.00	311.39	40.00
* 25040.000	4100.00	798.00	.62	12.79	0.00	322.70	40.00
25100.000	850.00	797.12	0.00	.45	0.00	360.63	60.00
25100.000	1700.00	797.79	0.00	.66	0.00	368.69	60.00
25100.000	2300.00	798.17	0.00	.79	0.00	373.29	60.00
25100.000	4100.00	799.14	.97	1.14	0.00	384.90	60.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
25200.000	850.00	797.12	0.00	.00	0.00	359.43	100.00
25200.000	1700.00	797.79	0.00	.00	0.00	367.51	100.00
25200.000	2300.00	798.18	0.00	.00	0.00	372.12	100.00
25200.000	4100.00	799.15	.97	.01	0.00	383.78	100.00
27520.000	850.00	797.14	0.00	.02	0.00	223.94	2320.00
27520.000	1700.00	797.86	0.00	.07	0.00	239.63	2320.00
27520.000	2300.00	798.29	0.00	.12	0.00	248.99	2320.00
27520.000	4100.00	799.48	1.19	.34	0.00	274.55	2320.00
28000.000	850.00	797.64	0.00	.50	0.00	239.08	480.00
28000.000	1700.00	798.81	0.00	.95	0.00	274.21	480.00
28000.000	2300.00	799.48	0.00	1.19	0.00	294.21	480.00
28000.000	4100.00	801.08	1.60	1.60	0.00	323.88	480.00
29320.000	850.00	802.93	0.00	5.30	0.00	114.53	1320.00
29320.000	1700.00	804.65	0.00	5.84	0.00	152.35	1320.00
29320.000	2300.00	805.51	0.00	6.03	0.00	165.06	1320.00
29320.000	4100.00	807.35	1.84	6.27	0.00	183.51	1320.00
30060.000	850.00	806.43	0.00	3.50	0.00	197.28	740.00
30060.000	1700.00	808.06	0.00	3.40	0.00	261.87	740.00
30060.000	2300.00	808.89	0.00	3.38	0.00	280.56	740.00
30060.000	4100.00	810.84	1.95	3.49	0.00	320.03	740.00
30760.000	850.00	809.90	0.00	3.46	0.00	201.03	700.00
30760.000	1700.00	811.23	0.00	3.17	0.00	225.93	700.00
30760.000	2300.00	811.94	0.00	3.05	0.00	235.18	700.00
30760.000	4100.00	813.67	1.73	2.82	0.00	257.66	700.00
32240.000	850.00	815.91	0.00	6.02	0.00	284.38	1490.00
32240.000	1700.00	817.23	0.00	6.00	0.00	309.68	1490.00
32240.000	2300.00	817.96	0.00	6.02	0.00	323.91	1490.00
32240.000	4100.00	819.68	1.72	6.02	0.00	359.95	1490.00
32263.000	850.00	816.04	0.00	.13	0.00	11.50	23.00
32263.000	1700.00	817.34	0.00	.10	0.00	257.80	23.00
32263.000	2300.00	818.06	0.00	.10	0.00	279.63	23.00
32263.000	4100.00	819.78	1.72	.09	0.00	324.61	23.00
* 32264.000	850.00	819.03	0.00	2.99	0.00	304.30	1.00
* 32264.000	1700.00	819.43	0.00	2.10	0.00	315.45	1.00
* 32264.000	2300.00	819.71	0.00	1.55	0.00	322.84	1.00
* 32264.000	4100.00	820.45	.73	.67	0.00	340.57	1.00
32297.000	850.00	819.45	0.00	.42	0.00	297.42	33.00
32297.000	1700.00	820.25	0.00	.82	0.00	318.42	33.00
32297.000	2300.00	820.58	0.00	.86	0.00	326.61	33.00
32297.000	4100.00	821.49	.91	1.04	0.00	347.74	33.00
32298.000	850.00	819.68	0.00	.23	0.00	303.60	1.00
32298.000	1700.00	820.54	0.00	.29	0.00	325.84	1.00
32298.000	2300.00	820.95	0.00	.38	0.00	335.93	1.00
32298.000	4100.00	821.99	1.04	.50	0.00	356.51	1.00

SECNO	Q	CHSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
32320.000	850.00	819.68	0.00	.00	0.00	322.35	22.00
32320.000	1700.00	820.54	0.00	.00	0.00	343.09	22.00
32320.000	2300.00	820.96	0.00	.01	0.00	350.78	22.00
32320.000	4100.00	822.00	1.04	.01	0.00	369.09	22.00

SUMMARY OF ERRORS

NOTE SECNO= 7910.000 PROFILE= 4 WSEL BASED ON X5 CARD

CAUTION SECNO=25040.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=25040.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=25040.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=25040.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=25040.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=25040.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=25040.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=25040.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=25040.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=25040.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=25040.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=25040.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=32264.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=32264.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=32264.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=32264.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=32264.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO=32264.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=32264.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO=32264.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

BULL RUN
 FLOODWAY

T1 GUILFORD CO. FIA
 T2 BULL RUN (CR. NO. 28) -100 YR NATURAL
 T3 DEC 76 FMF

J1	ICHECK	INO	NINV	IDIR	STRI	METRIC	HVINS	Q	WSEL	FG
	-1.	2.	0.	0.	0.000000	0.00	0.0	0.	701.000	0.000
J2	NPROF	IPLUT	PREVS	XSFCH	XSECH	FN	ALLDC	IRW	CHNIN	ITRACE
	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	1.000	4.000	13.000	14.000	15.000	27.000	21.000	22.000	28.000
	200.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	.120	.120	.060	.200	.400	0.000	0.000	0.000	0.000	0.000
Q1	4.000	4000.000	4000.000	4000.000	4000.000	4000.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	7.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	400.000	24.000	500.000	547.000	0.000	0.000	0.000	0.000	0.000	-0.900
GR	734.000	200.000	725.000	260.000	720.000	300.000	715.000	325.000	710.000	340.000
GR	705.000	360.000	699.500	415.000	695.200	450.000	696.000	490.000	695.900	500.000
GR	698.700	515.000	688.600	529.000	683.900	534.000	694.200	547.000	696.000	560.000
GR	698.900	580.000	700.000	600.000	705.000	645.000	710.000	665.000	715.000	800.000
GR	720.000	835.000	725.000	860.000	730.000	880.000	735.000	970.000	0.000	0.000
X1	590.000	0.000	0.000	0.000	190.000	190.000	190.000	0.000	.900	0.000
MC	0.000	0.000	0.000	.500	1.000	0.000	0.000	0.000	0.000	0.000
X1	639.000	15.000	505.000	534.000	49.000	49.000	49.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	701.000	701.000	0.000
GR	720.000	300.000	715.000	325.000	710.000	340.000	705.000	360.000	696.000	450.000
GR	696.000	505.000	689.500	506.000	687.500	533.000	694.000	534.000	699.000	580.000
GR	700.000	000.000	705.000	645.000	710.000	665.000	715.000	800.000	720.000	835.000
SB	1.250	1.500	3.000	0.000	29.000	2.000	305.000	0.000	689.600	689.500
X1	721.000	14.000	505.000	534.000	82.000	82.000	82.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	700.900	714.300	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	714.300	714.300	0.000
BT	11.000	300.000	720.000	0.000	350.000	717.100	0.000	400.000	715.100	0.000
BT	450.000	714.300	0.000	505.000	714.300	0.000	506.000	714.300	700.900	533.000
BT	715.000	700.900	534.000	715.000	0.000	550.000	715.300	0.000	600.000	717.200
BT	0.000	640.000	720.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	732.000	300.000	727.000	350.000	715.000	400.000	703.000	450.000	699.000	467.000

GR	697.000	600.000	701.000	640.000	710.000	725.000	720.000	770.000	0.000	0.000
X1	740.000	23.000	500.000	533.000	19.000	19.000	19.000	0.000	0.000	0.000
GR	740.000	240.000	735.000	280.000	730.000	320.000	725.000	365.000	714.400	400.000
GR	702.700	451.000	699.200	467.000	698.400	500.000	689.300	510.000	689.300	517.000
GR	689.900	529.000	692.900	533.000	694.900	550.000	697.100	600.000	701.800	650.000
GR	705.000	690.000	710.000	725.000	715.000	750.000	720.000	770.000	725.000	795.000
GR	730.000	820.000	735.000	850.000	740.000	875.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	.200	.400	0.000	0.000	0.000	0.000	0.000
X1	770.000	0.000	0.000	0.000	30.000	30.000	30.000	0.000	0.000	0.000
X1	1400.000	30.000	1500.000	1542.000	630.000	630.000	630.000	0.000	0.000	0.000
GR	750.000	820.000	745.000	840.000	740.000	850.000	735.000	950.000	730.000	1020.000
GR	725.000	1040.000	720.000	1075.000	715.000	1100.000	710.000	1150.000	707.400	1200.000
GR	701.900	1331.000	699.600	1390.000	699.700	1400.000	698.300	1437.000	698.000	1500.000
GR	692.300	1509.000	692.300	1520.000	692.800	1531.000	698.600	1542.000	700.000	1600.000
GR	707.300	1675.000	710.000	1690.000	715.000	1710.000	720.000	1740.000	725.000	1760.000
GR	730.000	1805.000	735.000	1850.000	740.000	1900.000	745.000	1940.000	750.000	1965.000
X1	1700.000	12.000	500.000	542.000	300.000	300.000	300.000	0.000	0.000	0.000
GR	725.000	170.900	720.000	335.000	715.000	385.000	699.700	500.000	694.000	509.000
GR	694.500	531.000	700.300	542.000	705.000	580.000	710.000	600.000	715.000	620.000
GR	720.000	660.000	725.000	675.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	1900.000	10.000	500.000	542.000	200.000	200.000	200.000	0.000	0.000	0.000
GR	730.000	180.000	725.000	290.000	705.000	430.000	700.800	500.000	695.100	509.000
GR	695.600	531.000	701.400	542.000	705.000	580.000	720.000	660.000	725.000	710.000
ET	0.000	0.000	3.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	2500.000	8.000	500.000	542.000	600.000	600.000	600.000	0.000	0.000	0.000
GR	720.000	395.000	710.000	455.000	704.300	500.000	698.600	509.000	699.100	531.000
GR	704.900	542.000	710.000	580.000	725.000	620.000	0.000	0.000	0.000	0.000
X1	2800.000	0.000	0.000	0.000	300.000	300.000	300.000	0.000	1.500	0.000
X1	4600.000	12.000	500.000	544.000	1800.000	1800.000	1800.000	0.000	0.000	0.000
GR	740.000	335.000	725.000	485.000	720.000	495.000	715.600	500.000	710.300	508.000
GR	710.100	518.000	710.300	528.000	716.300	544.000	720.000	590.000	725.000	660.000
GR	730.000	700.000	735.000	730.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	7.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	6200.000	13.000	500.000	544.000	1600.000	1600.000	1600.000	0.000	0.000	0.000
GR	750.000	190.000	745.000	260.000	736.700	301.000	725.800	346.000	724.100	400.000
GR	724.400	500.000	719.100	508.000	718.800	518.000	719.100	528.000	725.100	544.000
GR	729.400	600.000	739.100	650.000	746.900	687.000	0.000	0.000	0.000	0.000
OT	4.000	3690.000	3690.000	3690.000	3690.000	0.000	0.000	0.000	0.000	0.000
X1	7690.000	23.000	500.000	580.000	1490.000	1490.000	1490.000	0.000	0.000	0.000
GR	775.000	40.000	770.000	70.000	765.000	260.000	700.000	300.000	755.000	340.000
GR	776.500	375.000	745.400	400.000	733.500	500.000	727.500	514.000	727.000	521.000
GR	723.500	525.000	721.000	537.000	723.200	550.000	732.000	580.000	734.100	590.000
GR	740.000	640.000	745.000	690.000	750.000	740.000	755.000	795.000	760.000	835.000
GR	765.000	890.000	770.000	910.000	775.000	965.000	0.000	0.000	0.000	0.000
NC	.015	.015	.015	.500	1.000	0.000	0.000	0.000	0.000	0.000

X1	7762.000	27.000	503.200	520.700	72.000	72.000	72.000	72.000	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GH	750.000	200.000	745.000	220.000	740.000	300.000	735.000	560.000	737.400	730.000	390.000	0.000	0.000
GH	725.000	500.000	721.400	503.200	721.400	503.500	721.400	504.300	721.400	721.400	505.000	0.000	0.000
GH	721.400	506.000	721.400	508.000	721.400	509.500	721.400	512.000	721.400	721.400	514.500	0.000	0.000
GH	721.400	516.000	721.400	518.000	721.400	519.000	721.400	519.600	721.400	721.400	520.500	0.000	0.000
GH	721.400	520.700	725.000	580.000	730.000	665.000	735.000	750.000	740.000	740.000	790.000	0.000	0.000
GH	745.000	650.000	750.000	690.000	770.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	4.100	503.200	520.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	7763.000	0.000	0.000	0.000	1.000	1.000	1.000	1.000	0.000	0.000	0.000	0.000	0.000
BT	23.000	200.000	778.400	0.000	300.000	777.900	0.000	390.000	777.500	721.400	503.500	0.000	0.000
BT	506.000	777.300	0.000	503.200	777.300	0.000	503.200	777.300	721.400	506.000	777.300	0.000	0.000
BT	777.300	731.000	504.300	777.300	733.000	505.000	777.300	734.000	506.000	777.300	777.300	0.000	0.000
BT	735.000	508.000	777.300	736.300	509.500	777.300	737.000	512.000	777.300	735.000	737.400	0.000	0.000
BT	514.500	777.300	737.000	516.000	777.300	736.300	518.000	777.300	735.000	777.300	519.000	0.000	0.000
BT	777.300	734.000	519.600	777.300	733.000	520.500	777.300	731.000	520.700	777.300	777.300	0.000	0.000
BT	721.400	520.700	777.300	0.000	580.000	777.200	0.000	890.000	777.000	777.000	0.000	0.000	0.000
ET	0.000	0.000	7.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	7838.000	0.000	0.000	0.000	75.000	75.000	75.000	75.000	0.000	0.000	0.000	0.000	0.000
X2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	777.300	777.300	777.300	0.000	0.000	0.000

X1	7910.000	12.000	500.000	544.000	72.000	72.000	72.000	0.000	0.000	0.000	0.000	0.000	0.000
GH	750.000	30.000	745.000	250.000	740.000	290.000	735.000	360.000	730.000	450.000	0.000	0.000	0.000
GH	727.100	500.000	723.500	507.000	722.100	516.000	723.400	525.000	739.600	544.000	0.000	0.000	0.000
GH	745.000	570.000	750.000	600.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
KC	.120	.120	.060	.200	.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	8220.000	16.000	500.000	542.000	310.000	310.000	310.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	735.000	280.000	750.000	340.000	745.000	370.000	732.200	400.000	729.000	414.000	0.000	0.000	0.000
GR	728.700	500.000	723.600	510.000	722.700	520.000	723.600	530.000	729.000	542.000	0.000	0.000	0.000
GR	732.500	561.000	735.000	570.000	740.000	595.000	745.000	620.000	750.000	650.000	0.000	0.000	0.000
GR	755.000	675.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	8290.000	0.000	0.000	0.000	70.000	70.000	70.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	.100	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	8298.000	14.000	500.000	524.000	8.000	8.000	8.000	0.000	0.000	0.000	0.000	0.000	0.000
X5	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GH	753.100	0.000	747.100	100.000	743.600	200.000	741.700	300.000	741.700	400.000	0.000	0.000	0.000
GH	742.700	500.000	742.700	501.000	723.300	501.000	723.300	523.000	742.800	523.000	0.000	0.000	0.000
GR	742.800	524.000	744.800	600.000	748.800	700.000	753.100	795.000	0.000	0.000	0.000	0.000	0.000
SR	1.250	1.500	3.000	0.000	1.000	1.000	266.000	.140	723.500	723.300	0.000	0.000	0.000

X1	8342.000	0.000	0.000	0.000	44.000	44.000	44.000	0.000	0.000	0.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X5	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	14.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BT	300.000	0.000	753.100	0.000	100.000	747.100	0.000	200.000	742.800	501.000	0.000	0.000	0.000
BT	300.000	741.700	0.000	400.000	741.700	0.000	500.000	742.700	0.000	501.000	0.000	0.000	0.000
BT	742.700	0.000	501.000	742.700	737.500	523.000	742.800	737.500	523.000	742.800	0.000	0.000	0.000
BT	737.500	524.000	742.800	0.000	600.000	744.800	0.000	700.000	748.800	0.000	0.000	0.000	0.000
BT	737.500	524.000	742.800	0.000	600.000	744.800	0.000	700.000	748.800	0.000	0.000	0.000	0.000

X1	8350.000	12.000	500.000	535.000	8.000	8.000	8.000	0.000	0.000	0.000	0.000	0.000	0.000
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GR	723.900	507.000	723.000	517.000	724.100	527.000	728.300	535.000	735.100	600.000
GR	740.300	625.000	750.000	725.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	8420.000	0.000	0.000	0.000	70.000	70.000	70.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	.200	.400	0.000	0.000	0.000	0.000	0.000
X1	8500.000	0.000	0.000	0.000	80.000	80.000	80.000	0.000	.200	0.000
X3	9400.000	11.000	500.000	531.000	900.000	900.000	900.000	0.000	-5.000	0.000
GR	750.000	200.000	745.000	300.000	740.000	390.000	737.000	500.000	731.600	508.000
GR	731.000	513.000	732.000	524.000	737.300	531.000	740.000	660.000	745.000	700.000
GR	750.000	720.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	10400.000	0.000	0.000	0.000	1000.000	1000.000	1000.000	0.000	2.000	0.000
X1	11000.000	0.000	0.000	0.000	600.000	600.000	600.000	0.000	2.000	0.000
X1	12400.000	27.000	500.000	531.000	1480.000	1480.000	1480.000	0.000	0.000	0.000
GR	800.000	100.000	795.000	140.000	790.000	180.000	785.000	200.000	780.000	225.000
GR	775.000	270.000	770.000	300.000	765.000	315.000	760.000	340.000	755.000	370.000
GR	751.700	400.000	741.800	450.000	741.100	500.000	735.700	508.000	735.200	513.000
GR	736.300	524.000	741.500	531.000	742.100	600.000	744.500	700.000	748.500	750.000
GR	750.000	820.000	755.000	850.000	760.000	855.000	765.000	880.000	770.000	985.000
GR	775.000	1060.000	800.000	1285.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	13000.000	0.000	0.000	0.000	520.000	520.000	520.000	0.000	1.700	0.000
X1	13500.000	0.000	0.000	0.000	500.000	500.000	500.000	0.000	1.200	0.000
X1	14000.000	17.000	500.000	530.000	500.000	500.000	500.000	0.000	0.000	0.000
GR	770.000	200.000	765.000	280.000	760.000	325.000	755.000	385.000	750.000	430.000
GR	745.000	485.000	744.800	500.000	740.000	507.000	739.500	515.000	740.000	522.000
GR	744.500	530.000	745.000	535.000	750.000	750.000	755.000	770.000	760.000	790.000
GR	765.000	820.000	770.000	800.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	17440.000	20.000	500.000	529.000	3440.000	3440.000	3440.000	0.000	0.000	0.000
GR	800.000	85.000	795.000	180.000	790.000	260.000	785.000	310.000	780.000	350.000
GR	775.900	375.000	772.100	400.000	754.900	444.000	753.400	500.000	748.900	503.000
GR	748.800	511.000	750.100	519.000	755.400	529.000	756.800	600.000	758.400	700.000
GR	762.100	800.000	763.400	825.000	770.000	1030.000	775.000	1080.000	800.000	1500.000
OT	4.000	2800.000	2800.000	2800.000	2800.000	0.000	0.000	0.000	0.000	0.000
X1	20450.000	18.000	500.000	549.000	3010.000	3010.000	3010.000	0.000	0.000	0.000
GR	800.000	170.000	795.000	220.000	790.000	260.000	785.000	300.000	780.000	350.000
GR	773.900	400.000	762.700	500.000	756.700	505.000	756.100	513.000	757.900	530.000
GR	766.700	549.000	768.400	600.000	774.500	700.000	776.400	725.000	785.000	800.000
GR	790.000	890.000	795.000	1050.000	800.000	1080.000	0.000	0.000	0.000	0.000
X1	20506.000	20.000	501.000	537.000	56.000	56.000	56.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	6.000	0.000	0.000	770.500	769.900	0.000
GR	800.000	170.000	795.000	220.000	790.000	260.000	785.000	300.000	780.000	350.000
GR	773.900	400.000	762.700	500.000	757.600	501.000	757.300	515.000	757.300	522.000
GR	758.100	530.000	758.500	537.000	766.200	549.000	768.400	600.000	774.500	700.000

	770,000	725,000	785,000	800,000	790,000	890,000	795,000	1000,000	800,000	1000,000
X1	20507.000	0.000	0.000	0.000	1.000	1.000	1.000	0.000	0.000	0.000
RT	16.000	170.000	800.000	0.000	220.000	795.000	0.000	260.000	790.000	0.000
RI	300.000	785.000	0.000	350.000	780.000	0.000	400.000	776.300	0.000	501.000
RT	772.900	0.000	501.000	772.900	770.500	537.000	772.300	769.900	537.000	772.300
RI	0.000	600.000	771.400	0.000	700.000	772.000	0.000	800.000	776.700	0.000
BT	890.000	780.000	0.000	1030.000	788.000	0.000	1080.000	790.000	0.000	0.000
X1	20533.000	0.000	0.000	0.000	26.000	26.000	26.000	0.000	0.000	0.000
X2	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000	0.000
X1	20534.000	0.000	0.000	0.000	1.000	1.000	1.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	772.900	772.300	0.000
X1	20580.000	0.000	0.000	0.000	46.000	46.000	46.000	0.000	0.000	0.000
X1	21000.000	0.000	0.000	0.000	420.000	420.000	420.000	0.000	1.900	0.000
X1	23080.000	16.000	500.000	515.000	2080.000	2080.000	2080.000	0.000	-1.500	0.000
GR	800.000	240.000	795.000	275.000	790.000	310.000	785.000	340.000	780.000	370.000
GR	775.000	400.000	768.700	500.000	767.600	503.000	766.900	508.000	767.400	513.000
GR	769.500	515.000	781.700	600.000	785.000	630.000	790.000	660.000	795.000	715.000
GR	800.000	760.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OT	4.000	2300.000	2300.000	2300.000	2300.000	0.000	0.000	0.000	0.000	0.000
X1	25000.000	17.000	500.000	545.000	1920.000	1920.000	1920.000	0.000	0.000	0.000
GR	810.000	230.000	805.000	310.000	800.000	360.000	795.000	390.000	790.000	415.000
GR	785.000	430.000	778.400	500.000	775.900	510.000	774.900	524.000	775.300	529.000
GR	778.300	545.000	779.400	600.000	789.600	700.000	795.000	730.000	800.000	760.000
GR	805.000	800.000	810.000	860.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	14.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	25040.000	12.000	500.000	700.000	40.000	40.000	40.000	0.000	0.000	0.000
GR	806.000	400.000	796.500	500.000	795.700	507.000	795.800	519.000	795.700	530.000
GR	796.200	600.000	795.800	629.000	795.800	654.000	795.700	679.000	795.800	700.000
GR	797.100	800.000	805.000	860.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	25100.000	17.000	500.000	545.000	60.000	60.000	60.000	0.000	.400	0.000
GR	810.000	230.000	805.000	310.000	800.000	360.000	795.000	390.000	790.000	415.000
GR	785.000	430.000	778.400	500.000	775.900	510.000	774.900	524.000	775.300	529.000
GR	778.300	545.000	779.400	600.000	789.600	700.000	795.000	730.000	800.000	760.000
GR	805.000	800.000	810.000	860.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	25200.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	.100	0.000
X1	27520.000	21.000	1500.000	1520.000	2320.000	2320.000	2320.000	0.000	0.000	0.000
GR	830.000	1050.000	825.000	1110.000	820.000	1190.000	815.000	1250.000	810.000	1310.000
GR	805.000	1360.000	800.400	1400.000	791.900	1485.000	792.400	1500.000	791.600	1502.000
GR	790.900	1510.000	791.200	1516.000	792.600	1520.000	792.200	1600.000	800.900	1700.000
GR	805.000	1730.000	810.000	1770.000	815.000	1800.000	820.000	1830.000	825.000	1865.000
GR	830.000	1890.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
X1	28000.000	15.000	500.000	521.000	250.000	400.000	480.000	0.000	0.000	0.000

GR 805.000 400.000 800.000 450.000 795.000 490.000 794.900 500.000 792.500 510.000
GR 794.800 521.000 795.000 650.000 800.000 740.000 825.000 910.000 850.000 980.000
FI 0.000 0.000 5.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000

X1 29320.000 17.000 500.000 525.000 1320.000 1320.000 1320.000 0.000 0.000 0.000
GR 830.000 160.000 825.000 235.000 820.000 270.000 815.000 290.000 810.000 360.000
GR 805.000 390.000 800.000 480.000 799.900 500.000 797.200 510.000 799.800 525.000
GR 800.000 530.000 805.000 550.000 810.000 570.000 815.000 690.000 820.000 770.000
GR 825.000 850.000 850.000 990.000 0.000 0.000 0.000 0.000 0.000 0.000
FI 0.000 0.000 7.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000

X1 30060.000 14.000 500.000 526.000 740.000 740.000 740.000 0.000 0.000 0.000
GR 830.000 0.000 820.000 200.000 810.000 350.000 807.500 400.000 804.000 500.000
GR 800.200 507.000 799.200 512.000 799.500 518.000 803.600 526.000 805.800 600.000
GR 806.900 648.600 813.200 603.000 820.000 750.000 850.000 850.000 0.000 0.000
FI 0.000 0.000 8.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000

X1 30700.000 11.000 500.000 523.000 700.000 700.000 700.000 0.000 0.000 0.000
GR 830.000 180.000 820.000 310.000 810.000 340.000 808.100 500.000 804.200 508.000
GR 803.600 512.000 803.900 518.000 807.800 523.000 810.000 550.000 820.000 650.000
GR 850.000 750.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
FI 0.000 0.000 9.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000

X1 32240.000 13.000 500.000 520.000 1490.000 1490.000 1490.000 0.000 -1.800 0.000
GR 830.000 200.000 820.600 300.000 817.700 350.000 815.700 400.000 815.500 500.000
GR 811.000 508.000 810.800 512.000 811.200 516.000 815.100 520.000 815.500 600.000
GR 815.132 629.000 819.700 638.000 850.000 710.000 0.000 0.000 0.000 0.000
NC 0.000 0.000 7.400 0.500 1.000 0.000 0.000 0.000 0.000 0.000
FI 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

X1 32263.000 10.000 502.200 513.700 23.000 23.000 23.000 0.000 0.000 0.000
X3 10.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
GR 830.000 200.000 820.600 300.000 817.700 350.000 815.700 400.000 815.500 500.000
GR 811.700 502.200 810.600 502.700 810.000 504.000 809.600 505.800 809.400 508.000
GR 809.600 510.100 810.000 512.000 810.700 513.300 811.700 513.700 815.000 517.000
GR 815.500 600.000 819.700 638.000 850.000 710.000 0.000 0.000 0.000 0.000
NC .025 .025 .025 0.000 0.000 0.000 0.000 0.000 0.000 0.000
FI 0.000 0.000 10.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000

X1 32264.000 0.000 0.000 0.000 1.000 1.000 1.000 0.000 0.000 0.000
RT 19.000 200.000 830.000 0.000 250.000 823.900 0.000 300.000 820.500 0.000
RT 400.000 810.200 0.000 500.000 818.100 0.000 502.200 818.200 0.000 502.200
RT 818.200 811.700 502.700 816.200 815.100 504.000 818.200 815.000 505.800 818.300
RT 816.200 508.000 818.300 816.600 510.100 818.400 816.200 512.000 818.400 815.000
RT 513.300 810.400 813.100 513.700 811.400 811.700 513.700 818.400 0.000 800.000
RT 821.000 700.000 824.200 824.200 710.000 850.000 0.000 0.000 0.000 0.000
FI 0.000 22.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

X1 32297.000 0.000 0.000 0.000 33.000 33.000 33.000 0.000 0.000 0.000
X2 0.000 0.000 0.000 0.000 1.000 0.000 1.000 0.000 0.000 0.000
FI 0.000 103.400 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

X1 32298.000 0.000 0.000 0.000 1.000 1.000 1.000 0.000 0.000 0.000
X3 10.000 0.000 0.000 0.000 0.000 0.000 0.000 818.100 818.400 0.000
NC .120 .060 .060 0.000 0.000 0.000 0.000 0.000 0.000 0.000
FI 0.000 0.000 90.400 0.000 5.000 0.000 0.000 0.000 0.000 0.000

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR = 01
 MODIFICATION = 50,51,52

T1 GUILFORD CO, FIA
 T2 BULL RUN (CR NO, 28)-FLOODWAY-
 T3 DEC 76 EMF

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FO
	-10.	3.	0.	0.	0.000000	0.00	0.0	0.	702.000	0.000
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

*PROF 2

CCHV= .200 CEHV= .400

*SECNO 400,000

2800 NAT 01= 617.78 WSEL= 701.00 ENC 01= 617.78 WSEL= 701.70 RATIO= 0.0000

NAT 01= 737. RATIOS LOB,CH,ROB= .2813 .5762 .1425 WSEL= 701.70

SECNO	DEPTH	WSEL	CRHS	WSELK	EG	HV	HL	LOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROR	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WIN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 446.8 563.0 TYPE= 4 TARGET= .161

400.00	14.30	702.00	0.00	701.00	702.45	.45	0.00	0.00	695.00
4000.	952.	2725.	323.	362.	437.	121.	0.	0.	693.30
0.00	2.63	6.24	2.66	.120	.060	.120	0.000	687.70	446.83
.003697	0.	0.	0.	0	0	0	0.00	116.13	562.96

*SECNO 590,000

2800 NAT 01= 602.12 WSEL= 701.81 ENC 01= 602.12 WSEL= 702.51 RATIO= 0.0000

NAT 01= 720. RATIOS LOB,CH,ROB= .2797 .5792 .1412 WSEL= 702.51

3470 ENCROACHMENT STATIONS= 447.8 562.4 TYPE= 4 TARGET= .164

590.00	14.11	702.71	0.00	701.81	703.19	.48	.73	.01	695.90
4000.	937.	2747.	317.	346.	428.	115.	4.	1.	694.20
.01	2.71	6.42	2.76	.120	.060	.120	.060	688.60	447.84
.004016	190.	190.	190.	2	0	0	0.00	114.53	562.38

CCHV= .500 CEHV= 1.000

*SECNO 639,000

2800 NAT 01= 687.22 WSEL= 702.01 ENC 01= 687.22 WSEL= 702.71 RATIO= 0.0000

NAT 01= 797. RATIOS LOB,CH,ROB= .2821 .5406 .1775 WSEL= 702.71

3470 ENCROACHMENT STATIONS= 447.0 564.7 TYPE= 4 TARGET= .138

639.00	13.44	702.94	0.00	702.01	703.38	.44	.17	.02	696.00
4000.	990.	2491.	519.	402.	384.	223.	5.	1.	694.00
.01	2.46	6.48	2.33	.120	.060	.120	.060	689.50	446.96
.00345	10.	10.	10.	0	0	0	0.00	117.71	564.67

X1	32320.000	13,000	500.000	520.000	22,000	22,000	22,000	0,000	0,000	0,000
GR	830.000	200,000	820.600	300,000	817,700	350,000	815,700	400,000	815,500	500,000
GR	811.000	508,000	810,800	512,000	811,200	516,000	815,100	520,000	815,500	600,000
GR	815.100	629,000	819,700	638,000	830,000	710,000	0,000	0,000	0,000	0,000
EJ	0.000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
 ERROR CORR - 01
 MODIFICATION - 50,51,52

NOTE- ASTERISK [*] AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

6 FMF

SUMMARY PRINTOUT

SECNO	CWSLL	TOPWID	QLOB	QCH	QROB	STENCL	STCHL	STCHR	STENCR
400.000	701.00	226.10	1071.09	2400.49	528.42	0.00	500.00	547.00	0.00
400.000	702.00	116.13	951.84	2725.33	322.83	446.83	500.00	547.00	562.97
590.000	701.81	224.25	1062.84	2414.80	522.37	0.00	500.00	547.00	0.00
590.000	702.71	114.53	936.62	2746.72	316.66	447.84	500.00	547.00	562.38
639.000	702.01	228.35	1060.67	2289.76	649.57	0.00	505.00	534.00	0.00
639.000	702.94	117.71	989.67	2491.33	519.00	446.96	505.00	534.00	564.67
721.000	704.68	29.00	0.00	4000.00	0.00	0.00	505.00	534.00	0.00
721.000	705.61	29.00	0.00	4000.00	0.00	505.00	505.00	534.00	534.00
740.000	706.54	266.56	426.56	1876.89	1696.55	0.00	500.00	533.00	0.00
740.000	707.22	169.34	277.86	2016.05	1706.09	471.07	500.00	533.00	640.41
770.000	706.56	266.80	427.38	1874.87	1697.75	0.00	500.00	533.00	0.00
770.000	707.24	169.63	278.82	2014.23	1706.94	470.97	500.00	533.00	640.61
1400.000	706.99	461.98	1637.96	1692.67	669.37	0.00	1500.00	1542.00	0.00
1400.000	707.68	261.22	1645.82	1846.37	507.81	1335.73	1500.00	1542.00	1596.96
1700.000	706.99	142.72	341.07	3336.73	322.21	0.00	500.00	542.00	0.00
1700.000	707.59	62.09	137.26	3728.42	134.32	490.35	500.00	542.00	552.44
1900.000	707.76	167.82	715.69	3103.81	180.50	0.00	500.00	542.00	0.00
1900.000	708.54	80.37	618.66	3381.34	0.00	461.62	500.00	542.00	542.00
2500.000	710.12	126.18	266.61	3545.00	188.38	0.00	500.00	542.00	0.00
2500.000	710.90	63.14	181.50	3733.02	85.48	486.59	500.00	542.00	549.73
2800.000	711.90	129.63	297.83	3487.62	214.55	0.00	500.00	542.00	0.00
2800.000	712.55	68.70	216.92	3665.51	117.57	483.69	500.00	542.00	552.39
4600.000	721.74	122.89	40.01	3583.86	376.13	0.00	500.00	544.00	0.00
4600.000	722.30	63.75	0.00	3739.78	260.21	500.00	500.00	544.00	563.75
6200.000	729.35	268.14	1585.14	2273.89	140.97	0.00	500.00	544.00	0.00
6200.000	730.24	149.20	1488.09	2511.91	0.00	394.80	500.00	544.00	544.00

SECNO	CWSEL	TOPWID	QLOB	QCH	QROB	STENCL	STCHL	STCHR	STENCR
7690.000	734.57	99.55	1.31	3677.28	11.41	0.00	500.00	580.00	0.00
7690.000	734.98	80.00	0.00	3690.00	0.00	500.00	500.00	580.00	580.00
7762.000	734.54	17.50	0.00	3690.00	0.00	0.00	503.20	520.70	0.00
7762.000	735.17	17.50	0.00	3690.00	0.00	503.20	503.20	520.70	520.70
7763.000	734.54	379.48	0.00	3690.00	0.00	0.00	503.20	520.70	0.00
7763.000	735.18	17.50	0.00	3690.00	0.00	503.20	503.20	520.70	520.70
7838.000	735.27	17.50	0.00	3690.00	0.00	0.00	503.20	520.70	0.00
7838.000	735.76	17.50	0.00	3690.00	0.00	503.20	503.20	520.70	520.70
7910.000	741.19	271.16	2536.39	1151.93	1.77	0.00	500.00	544.00	0.00
7910.000	741.52	175.48	2455.70	1234.30	0.00	368.52	500.00	544.00	544.00
8220.000	741.18	221.97	1469.80	1907.94	312.26	0.00	500.00	542.00	0.00
8220.000	741.51	157.32	1428.35	2032.79	228.86	404.97	500.00	542.00	562.29
8290.000	741.21	222.10	1470.18	1907.07	312.75	0.00	500.00	542.00	0.00
8290.000	741.54	157.20	1428.38	2032.63	228.98	405.05	500.00	542.00	562.25
8298.000	741.21	22.00	0.00	3690.00	0.00	0.00	500.00	524.00	0.00
8298.000	741.54	22.00	0.00	3690.00	0.00	500.00	500.00	524.00	524.00
8342.000	742.08	22.00	0.00	3690.00	0.00	0.00	500.00	524.00	0.00
8342.000	742.41	22.00	0.00	3690.00	0.00	500.00	500.00	524.00	524.00
8350.000	743.93	539.80	2478.19	796.24	415.57	0.00	500.00	535.00	0.00
8350.000	744.19	397.72	2518.72	854.83	316.44	191.73	500.00	535.00	589.45
8420.000	743.93	539.85	2478.20	796.17	415.63	0.00	500.00	535.00	0.00
8420.000	744.20	397.72	2518.75	854.78	316.47	191.73	500.00	535.00	589.45
8500.000	743.93	536.77	2477.33	800.86	411.81	0.00	500.00	535.00	0.00
8500.000	744.20	395.83	2518.48	860.31	311.22	192.49	500.00	535.00	588.32
9400.000	744.00	496.09	1372.67	1038.68	1278.65	0.00	500.00	531.00	0.00
9400.000	744.28	524.76	1330.01	1122.58	1237.40	340.02	500.00	531.00	664.79
10400.000	744.26	454.23	1278.67	1167.98	1243.35	0.00	500.00	531.00	0.00
10400.000	744.56	288.26	1226.59	1289.24	1174.17	367.03	500.00	531.00	655.29
11000.000	744.54	413.08	1163.19	1345.64	1181.17	0.00	500.00	531.00	0.00
11000.000	744.88	254.91	1113.50	1487.48	1089.03	387.54	500.00	531.00	642.46
12480.000	746.51	298.91	634.52	1824.27	1231.21	0.00	500.00	531.00	0.00
12480.000	747.03	171.67	400.54	2079.49	1209.97	468.80	500.00	531.00	640.47
13000.000	748.37	301.74	640.63	1790.20	1259.17	0.00	500.00	531.00	0.00
13000.000	749.02	176.05	414.76	2018.73	1256.51	467.74	500.00	531.00	643.79
13500.000	749.94	308.24	653.44	1717.86	1318.70	0.00	500.00	531.00	0.00
13500.000	750.63	185.54	440.90	1922.42	1326.68	465.45	500.00	531.00	650.98
14000.000	751.30	336.83	546.53	1780.37	1363.09	0.00	500.00	530.00	0.00
14000.000	751.99	169.17	283.92	1999.23	1406.84	481.49	500.00	530.00	650.66

SECNO	CWSEL	TOPWD	QLOB	QCH	QROB	STENCL	STCHL	STCHR	STENCR
17440.000	760.79	335.69	911.37	1664.82	1113.80	0.00	500.00	529.00	0.00
17440.000	761.51	193.53	714.08	1852.07	1123.86	457.82	500.00	529.00	651.35
20450.000	768.76	160.04	214.93	2524.59	60.47	0.00	500.00	549.00	0.00
20450.000	769.81	49.00	0.00	2800.00	0.00	500.00	500.00	549.00	549.00
20506.000	768.71	36.00	0.00	2800.00	0.00	0.00	501.00	537.00	0.00
20506.000	769.90	36.00	0.00	2800.00	0.00	501.00	501.00	537.00	537.00
20507.000	768.56	154.97	0.00	2644.78	155.22	0.00	501.00	537.00	0.00
20507.000	769.91	36.00	0.00	2800.00	0.00	501.00	501.00	537.00	537.00
20533.000	768.76	160.13	0.00	2644.40	155.60	0.00	501.00	537.00	0.00
20533.000	770.07	36.00	0.00	2800.00	0.00	501.00	501.00	537.00	537.00
20534.000	769.10	36.00	0.00	2800.00	0.00	0.00	501.00	537.00	0.00
20534.000	770.08	36.00	0.00	2800.00	0.00	501.00	501.00	537.00	537.00
20580.000	769.64	182.21	255.02	2286.20	258.78	0.00	501.00	537.00	0.00
20580.000	770.42	60.89	113.99	2510.93	175.08	488.98	501.00	537.00	549.87
21000.000	770.40	193.54	199.46	2417.25	183.29	0.00	501.00	537.00	0.00
21000.000	771.15	45.78	45.21	2704.95	49.84	495.28	501.00	537.00	541.06
23080.000	776.48	192.00	1404.62	955.97	439.21	0.00	500.00	515.00	0.00
23080.000	777.26	108.63	1466.62	1068.47	264.91	421.88	500.00	515.00	530.51
25000.000	782.90	182.01	144.18	1643.78	512.84	0.00	500.00	545.00	0.00
25000.000	783.74	79.62	0.00	1913.14	386.86	500.00	500.00	545.00	579.62
* 25040.000	797.38	311.39	6.13	2062.53	231.34	0.00	500.00	700.00	0.00
* 25040.000	797.47	200.00	0.00	2300.00	0.00	500.00	500.00	700.00	700.00
25100.000	798.17	373.29	494.69	887.89	917.42	0.00	500.00	545.00	0.00
25100.000	798.44	241.88	411.28	992.38	896.34	433.52	500.00	545.00	675.40
25200.000	798.18	372.12	493.73	890.02	916.25	0.00	500.00	545.00	0.00
25200.000	798.44	240.93	409.97	995.14	894.89	433.86	500.00	545.00	674.79
27520.000	798.29	248.99	462.35	615.33	1222.33	0.00	1500.00	1520.00	0.00
27520.000	798.52	114.49	184.07	827.73	1288.20	1486.07	1500.00	1520.00	1600.56
28000.000	799.48	294.21	248.99	586.12	1464.88	0.00	500.00	521.00	0.00
28000.000	800.46	122.30	0.00	767.53	1532.47	500.00	500.00	521.00	622.30
29320.000	805.51	165.06	881.12	1214.66	204.21	0.00	500.00	525.00	0.00
29320.000	806.54	96.33	921.34	1275.30	103.36	435.17	500.00	525.00	531.51
30060.000	808.89	280.50	476.13	1106.48	717.39	0.00	500.00	526.00	0.00
30060.000	809.48	120.59	331.37	1342.18	626.45	465.78	500.00	526.00	586.37
30760.000	811.94	235.18	982.40	1119.53	198.07	0.00	500.00	523.00	0.00
30760.000	812.92	112.36	1044.00	1256.00	0.00	410.64	500.00	523.00	523.00
32240.000	817.96	323.91	862.13	625.88	812.00	0.00	500.00	520.00	0.00
32240.000	818.92	191.28	844.02	753.11	702.87	402.89	500.00	520.00	594.17

SECNO	CWSEL	TOPWID	QLOB	QCH	QROB	STENCL	STCHL	STCHR	STENCR
32263.000	818.00	279.63	714.40	891.54	694.00	0.00	502.20	513.70	0.00
32263.000	819.01	144.64	726.26	981.20	592.54	422.36	502.20	513.70	567.01
* 32264.000	819.71	322.84	1392.89	693.26	213.85	0.00	502.20	513.70	0.00
* 32264.000	820.47	68.92	1433.99	866.01	0.00	444.78	502.20	513.70	513.70
32297.000	820.56	326.61	1606.14	430.03	263.83	0.00	502.20	513.70	0.00
32297.000	821.49	61.81	1564.66	735.34	0.00	451.89	502.20	513.70	513.70
32298.000	820.95	335.93	1096.65	310.39	892.97	0.00	502.20	513.70	0.00
32298.000	821.87	41.04	1229.95	1070.05	0.00	472.66	502.20	513.70	513.70
32320.000	820.90	390.78	942.15	538.35	819.50	0.00	500.00	520.00	0.00
32320.000	821.96	39.38	483.27	1816.73	0.00	480.62	500.00	520.00	520.00

SUMMARY OF ERRORS

CAUTION SECNO=25040,000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=25040,000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=25040,000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=25040,000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=25040,000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=25040,000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=32264,000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO=32264,000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO=32264,000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO=32264,000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

FLOODWAY DATA, 6 EMP
 PROFILE NO. 2

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	
X-sect 400.000	116.	920.	4.3	702.0	701.0	1.0
590.000	115.	889.	4.5	702.7	701.8	.9
639.000	118.	1010.	4.0	702.9	702.0	.9
721.000	29.	458.	8.7	705.6	704.7	.9
740.000	169.	1900.	2.1	707.2	706.5	.7
770.000	170.	1904.	2.1	707.3	706.6	.7
1400.000	261.	2425.	1.6	707.7	707.0	.7
1700.000	62.	641.	6.2	707.6	707.0	.6
1900.000	80.	749.	5.3	708.6	707.8	.8
2500.000	63.	571.	7.0	710.9	710.1	.8
2800.000	69.	604.	6.6	712.0	712.0	.6
A 4600.000	64.	554.	7.1	722.3	721.7	.6
B 6200.000	149.	1053.	3.8	730.3	729.4	.9
C 7690.000	80.	697.	5.3	735.0	734.4	.6
7702.000	18.	241.	15.3	735.1	734.5	.6
7763.000	17.	227.	16.2	735.1	734.5	.6
7838.000	18.	233.	15.8	735.8	735.3	.5
D 7910.000	175.	2044.	1.8	741.5	741.2	.3
8220.000	157.	2112.	1.7	741.5	741.2	.3
8290.000	157.	2114.	1.7	741.5	741.2	.3
8298.000	22.	401.	9.2	741.5	741.2	.3
8342.000	22.	470.	8.8	742.4	742.1	.3
8350.000	398.	6022.	.6	744.2	743.9	.3
8420.000	398.	6023.	.6	744.2	743.9	.3
8500.000	396.	5924.	.6	744.2	743.9	.3
9400.000	325.	3501.	1.1	744.3	744.0	.3
10400.000	288.	2724.	1.4	744.6	744.3	.3
11000.000	255.	2055.	1.8	744.8	744.5	.3
12480.000	172.	1026.	3.6	747.0	746.5	.5
13000.000	176.	1097.	3.4	749.0	748.4	.6
13500.000	186.	1216.	3.0	750.6	749.9	.7
14000.000	169.	1144.	3.2	752.0	751.3	.7
17440.000	194.	1239.	3.0	761.5	760.8	.7
20450.000	49.	573.	5.4	769.8	768.8	1.0
20500.000	36.	441.	6.3	769.9	768.7	1.2
20707.000	36.	441.	6.3	769.9	768.6	1.3
20533.000	36.	446.	6.3	770.1	768.8	1.3
20534.000	36.	448.	6.3	770.1	769.1	1.0
20540.000	61.	649.	4.3	770.4	769.6	.8
21000.000	46.	495.	5.7	771.1	770.4	.7
23080.000	109.	889.	3.2	777.3	776.5	.8
25000.000	80.	513.	4.5	783.7	782.9	.8
25040.000	200.	319.	7.2	797.5	797.4	.1
25100.000	242.	4248.	.5	798.5	798.2	.3
25200.000	241.	4213.	.5	798.5	798.2	.3
27520.000	114.	727.	3.2	798.5	798.3	.2
28000.000	122.	708.	3.2	800.5	799.5	1.0
29320.000	96.	612.	3.8	806.5	805.5	1.0
30060.000	121.	693.	3.3	809.5	808.9	.6
30760.000	112.	563.	4.1	812.9	811.9	1.0

SHEET 10 OF 10

FLOODWAY DATA, 6 EMF
PROFILE NO. 2

STATION	FLOODWAY			WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
32240.000	191.	1068.	2.2	819.0	818.0	1.0
32263.000	145.	595.	3.9	819.0	818.1	.9
32264.000	69.	221.	10.4	820.5	819.7	.8
32297.000	62.	268.	8.6	821.5	820.6	.9
32298.000	41.	301.	7.7	821.9	821.0	.9
32320.000	39.	318.	7.2	822.0	821.0	1.0