

APPENDIX 6.1:

FEMA HEC-2 Hydraulic Model for Pantry Brook

FEMA Engineering Library Digitized Data Index

CID:250217

Community:SUDBURY, TOWN OF

County:MIDDLESEX COUNTY

State:MASSACHUSETTS

Case Number/ Study ID:250217-19811201

Description:1d. Type 15 Study

Revision Status:

Flooding Source(s):Pantry Brook



0253430

Box:

Doc:

Effective Date:12/1/1981

Contents:06. Engineering Analysis: Hydraulics (riverine, stillwater, LDS)

Notes:

Scanned by: *TK*
QC Staff:

Scan Date: *3/25/2011*
QC Date:

FANTRY

BROOK

12/20/77
OK (SEE SEC. 50.850)

HEC2 RELEASE DATED NOV 76 UPDATED AUG1977
ERROR CORR - 01,02
MODIFICATION - 50,51,52,53

FINAL PROFILE RUN

C
T1 SUDBURY FIS BOSTON OFFICE 11/04/77
T2 10, 50, 100, 500-YEAR PROFILE NO. P-075
T3 PANTRY BROOK 10-YEAR PROFILE P-075-1

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	2.	0.	0.	-1.000000	0.0	0.0	0.	0.0	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	100.000	0.0	105.000	0.0	150.000	0.0	201.000	0.0	0.0	0.0
J5	LPRNT	NUMSEC	*****REQUESTED SECTION NUMBERS*****							
	-10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J6	IHLQ	ICOPY								
	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.050	0.050	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	4.000	133.000	206.000	240.000	326.000	0.0	0.0	0.0	0.0	0.0
X1	1.400	15.000	5030.000	5040.000	0.0	0.0	0.0	0.0	0.0	0.0
GR	126.000	4770.000	124.000	4815.000	122.000	4850.000	120.000	4890.000	118.000	5000.000
GR	113.500	5030.000	112.800	5035.000	113.500	5040.000	114.600	5042.000	114.800	5052.000
GR	118.000	5180.000	120.000	5300.000	122.000	5310.000	124.000	5330.000	126.000	5430.000
X1	1.500	0.0	0.0	0.0	10.000	10.000	10.000	0.0	0.0	0.0

X1	14.000	9.000	5000.000	5010.000	160.000	160.000	160.000	0.0	0.0	0.0
GR	128.000	4730.000	126.000	4840.000	124.000	4900.000	122.000	4915.000	120.500	5000.000
GR	116.100	5005.000	120.500	5010.000	122.000	5280.000	128.000	5350.000	0.0	0.0

D/S FACE CONCORD ROAD CULVERT SU-27

X1	14.750	9.000	5000.000	5010.000	75.000	75.000	75.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	124.000	124.000	0.0
GR	130.000	4570.000	128.000	4725.000	126.000	4840.000	124.000	4900.000	122.000	4920.000
GR	116.800	5000.000	116.800	5010.000	122.000	5280.000	130.000	5370.000	0.0	0.0
SB	1.000	1.500	2.800	0.0	10.000	0.0	47.200	-0.319	116.800	116.800

U/S FACE CONCORD ROAD CULVERT SU-27

X1	15.250	20.000	5000.000	5010.000	50.000	50.000	50.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	122.600	127.000	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	127.000	127.000	0.0
BT	20.000	4570.000	132.000	132.000	4720.000	130.000	130.000	4800.000	128.000	128.000
BT	4880.000	128.000	126.000	4980.000	127.000	122.000	5000.000	127.000	116.800	5000.398
BT	127.000	119.500	5002.102	127.000	121.600	5005.000	127.000	122.600	5007.898	127.000
BT	121.600	5009.602	127.000	119.500	5010.000	127.000	116.800	5020.000	127.000	122.000
BT	5035.000	127.500	122.000	5045.000	128.000	124.000	5085.000	128.500	124.000	5110.000
BT	129.000	122.000	5140.000	129.500	124.000	5150.000	130.000	126.000	5185.000	131.000
BT	131.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	132.000	4570.000	130.000	4720.000	128.000	4800.000	126.000	4880.000	122.000	4980.000
GR	116.800	5000.000	116.800	5000.398	116.800	5002.102	116.800	5005.000	116.800	5007.898
GR	116.800	5009.602	116.800	5010.000	122.000	5020.000	122.000	5035.000	124.000	5045.000
GR	124.000	5085.000	122.000	5110.000	124.000	5140.000	126.000	5150.000	131.000	5185.000

D/S FACE OLD CONCORD RD. BRIDGE SU-28

X1	15.800	10.000	5000.000	5009.500	55.000	55.000	55.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	123.100	123.100	0.0
GR	130.000	4700.000	128.000	4760.000	126.000	4870.000	124.000	4950.000	116.800	5000.000
GR	116.700	5004.699	116.600	5009.500	124.000	5070.000	126.000	5110.000	130.000	5230.000

X1	15.810	12.000	5000.000	5009.500	1.000	1.000	1.000	0.0	0.0	0.0
X2	0.0	0.0	0.0	123.100	0.0	0.0	0.0	0.0	0.0	0.0
BT	16.000	4710.000	130.000	130.000	4780.000	128.000	128.000	4870.000	126.000	126.000
BT	4885.000	126.000	125.000	4998.699	125.200	118.000	4998.699	128.700	118.000	5000.000
BT	128.700	117.900	5000.000	128.700	123.100	5009.500	128.700	123.100	5009.500	128.700
BT	117.700	5010.801	128.700	117.700	5010.801	125.200	117.700	5065.000	125.300	122.000
BT	5095.000	125.500	124.000	5110.000	126.000	126.000	5160.000	130.000	130.000	0.0
GR	130.000	4710.000	128.000	4780.000	126.000	4870.000	125.000	4885.000	118.000	4998.699

14	X1	15.250	20.000	5000.000	5010.000	50.000	50.000	50.000	0.0	0.0	0.0
15	X2	0.0	0.0	1.000	122.600	127.000	0.0	0.0	0.0	0.0	0.0
16	X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	127.000	127.000	0.0
17	BT	20.000	4570.000	132.000	132.000	4720.000	130.000	130.000	4800.000	128.000	128.000
18	BT	4880.000	128.000	126.000	4980.000	127.000	122.000	5000.000	127.000	116.800	5000.398
19	BT	127.000	119.500	5002.102	127.000	121.600	5005.000	127.000	122.600	5007.898	127.000
20	BT	121.600	5009.602	127.000	119.500	5010.000	127.000	116.800	5020.000	127.000	122.000
21	BT	5035.000	127.500	122.000	5045.000	128.000	124.000	5085.000	128.500	124.000	5110.000
22	BT	129.000	122.000	5140.000	129.500	124.000	5150.000	130.000	126.000	5185.000	131.000
23	BT	131.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	GR	132.000	4570.000	130.000	4720.000	128.000	4800.000	126.000	4880.000	122.000	4980.000
25	GR	116.800	5000.000	116.800	5000.398	116.800	5002.102	116.800	5005.000	116.800	5007.898
26	GR	116.800	5009.602	116.800	5010.000	122.000	5020.000	122.000	5035.000	124.000	5045.000
27	GR	124.000	5085.000	122.000	5110.000	124.000	5140.000	126.000	5150.000	131.000	5185.000

28
29
30 D/S FACE OLD CONCORD RD. BRIDGE SU-28

31	X1	15.800	10.000	5000.000	5009.500	55.000	55.000	55.000	0.0	0.0	0.0
32	X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	123.100	123.100	0.0
33	GR	130.000	4700.000	128.000	4760.000	126.000	4870.000	124.000	4950.000	116.800	5000.000
34	GR	116.700	5004.699	116.600	5009.500	124.000	5070.000	126.000	5110.000	130.000	5230.000

37	X1	15.810	12.000	5000.000	5009.500	1.000	1.000	1.000	0.0	0.0	0.0
38	X2	0.0	0.0	0.0	123.100	0.0	0.0	0.0	0.0	0.0	0.0
39	BT	16.000	4710.000	130.000	130.000	4780.000	128.000	128.000	4870.000	126.000	126.000
40	BT	4885.000	126.000	125.000	4998.699	125.200	118.000	4998.699	128.700	118.000	5000.000
41	BT	128.700	117.900	5000.000	128.700	123.100	5009.500	128.700	123.100	5009.500	128.700
42	BT	117.700	5010.801	128.700	117.700	5010.801	125.200	117.700	5065.000	125.300	122.000
43	BT	5095.000	125.500	124.000	5110.000	126.000	126.000	5160.000	130.000	130.000	0.0
44	GR	130.000	4710.000	128.000	4780.000	126.000	4870.000	125.000	4885.000	118.000	4998.699
45	GR	117.900	5000.000	117.700	5009.500	117.700	5010.801	122.000	5065.000	124.000	5095.000
46	GR	126.000	5110.000	130.000	5160.000	0.0	0.0	0.0	0.0	0.0	0.0

49	X1	16.030	0.0	0.0	0.0	22.000	22.000	22.000	0.0	0.0	0.0
50	X2	0.0	0.0	0.0	123.100	0.0	0.0	1.000	0.0	0.0	0.0

53
54 U/S FACE OLD CONCORD RD. BRIDGE SU-28

55	X1	16.040	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0
56	X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	125.200	125.200	0.0

57	X1	17.000	8.000	5000.000	5010.000	96.000	96.000	96.000	0.0	0.0	0.0
58	GR	126.000	4830.000	122.000	4895.000	120.800	5000.000	118.000	5003.000	118.000	5007.000
59	GR	120.800	5010.000	122.000	5070.000	126.000	5120.000	0.0	0.0	0.0	0.0

GR	120.800	5010.000	122.000	5070.000	126.000	5120.000	0.0	0.0	0.0	0.0
X1	19.800	13.000	5068.000	5076.000	280.000	280.000	280.000	0.0	0.0	0.0
GR	126.000	4955.000	124.000	4968.000	122.000	4978.000	120.600	5000.000	119.500	5048.000
GR	119.700	5067.000	118.500	5068.000	118.100	5071.000	118.500	5076.000	119.700	5080.000
GR	120.100	5081.000	122.000	5130.000	126.000	5180.000	0.0	0.0	0.0	0.0

X1	25.400	11.000	5000.000	5020.000	500.000	500.000	560.000	0.0	0.0	0.0
GR	132.000	4850.000	124.000	4900.000	122.000	4990.000	120.500	5000.000	119.000	5005.000
GR	119.000	5015.000	120.500	5020.000	122.000	5025.000	124.000	5050.000	130.000	5100.000
GR	132.000	5120.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	D/S FACE	RAILROAD	BRIDGE SU-29							
X1	26.150	11.000	5000.000	5010.602	60.000	65.000	75.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	130.100	130.100	0.0
GR	132.000	4620.000	130.000	4680.000	128.000	4800.000	124.000	4820.000	120.000	5000.000
GR	119.200	5005.301	119.200	5010.602	122.000	5020.000	124.000	5120.000	130.000	5220.000
GR	132.000	5280.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	1.000	1.500	2.800	0.0	10.600	0.0	113.000	0.0	119.400	119.400

	U/S FACE	RAILROAD	BRIDGE SU-29							
X1	26.250	11.000	5000.000	5010.602	10.000	10.000	10.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	130.100	132.000	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	132.000	132.000	0.0
BT	12.000	4640.000	132.000	132.000	4800.000	132.000	128.000	4900.000	132.000	124.000
BT	5000.000	132.400	120.000	5000.000	132.400	130.100	5010.602	132.400	130.100	5010.602
BT	132.000	119.200	5040.000	132.000	122.000	5280.000	132.000	124.000	5335.000	132.000
BT	128.000	5345.000	132.000	130.000	5370.000	132.000	132.000	0.0	0.0	0.0
GR	132.000	4640.000	128.000	4800.000	124.000	4900.000	120.000	5000.000	119.200	5005.301
GR	119.200	5010.602	122.000	5040.000	124.000	5280.000	128.000	5335.000	130.000	5345.000
GR	132.000	5370.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	27.100	10.000	5000.000	5035.000	90.000	70.000	85.000	0.0	0.0	0.0
GR	128.000	4865.000	124.000	4935.000	122.000	4985.000	120.500	5000.000	119.500	5010.000
GR	119.500	5025.000	120.500	5035.000	122.000	5050.000	124.000	5130.000	130.000	5160.000

X1	30.300	13.000	5046.000	5054.000	340.000	300.000	320.000	0.0	0.0	0.0
GR	130.000	4950.000	128.000	4960.000	126.000	4990.000	124.000	5000.000	122.500	5040.000
GR	120.000	5046.000	119.400	5050.000	120.000	5054.000	122.500	5060.000	124.000	5150.000
GR	126.000	5380.000	128.000	5420.000	130.000	5430.000	0.0	0.0	0.0	0.0

X1	26.150	11.000	5000.000	5010.602	60.000	65.000	75.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	130.100	130.100	0.0
GR	132.000	4620.000	130.000	4680.000	128.000	4800.000	124.000	4820.000	120.000	5000.000
GR	119.200	5005.301	119.200	5010.602	122.000	5020.000	124.000	5120.000	130.000	5220.000
GR	132.000	5280.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	1.000	1.500	2.800	0.0	10.600	0.0	113.000	0.0	119.400	119.400

U/S FACE RAILROAD BRIDGE SU-29

X1	26.250	11.000	5000.000	5010.602	10.000	10.000	10.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	130.100	132.000	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	132.000	132.000	0.0
BT	12.000	4640.000	132.000	132.000	4800.000	132.000	128.000	4900.000	132.000	124.000
BT	5000.000	132.400	120.000	5000.000	132.400	130.100	5010.602	132.400	130.100	5010.602
BT	132.000	119.200	5040.000	132.000	122.000	5280.000	132.000	124.000	5335.000	132.000
BT	128.000	5345.000	132.000	130.000	5370.000	132.000	132.000	0.0	0.0	0.0
GR	132.000	4640.000	128.000	4800.000	124.000	4900.000	120.000	5000.000	119.200	5005.301
GR	119.200	5010.602	122.000	5040.000	124.000	5280.000	128.000	5335.000	130.000	5345.000
GR	132.000	5370.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	27.100	10.000	5000.000	5035.000	90.000	70.000	85.000	0.0	0.0	0.0
GR	128.000	4865.000	124.000	4935.000	122.000	4985.000	120.500	5000.000	119.500	5010.000
GR	119.500	5025.000	120.500	5035.000	122.000	5050.000	124.000	5130.000	130.000	5160.000

X1	30.300	13.000	5046.000	5054.000	340.000	300.000	320.000	0.0	0.0	0.0
GR	130.000	4950.000	128.000	4960.000	126.000	4990.000	124.000	5000.000	122.500	5040.000
GR	120.000	5046.000	119.400	5050.000	120.000	5054.000	122.500	5060.000	124.000	5150.000
GR	126.000	5380.000	128.000	5420.000	130.000	5430.000	0.0	0.0	0.0	0.0

X1	34.800	11.000	5006.000	5014.000	450.000	450.000	450.000	0.0	0.0	0.0
GR	130.000	4945.000	128.000	4955.000	126.000	4970.000	124.000	5000.000	123.500	5006.000
GR	120.200	5010.000	123.200	5014.000	124.000	5090.000	126.000	5110.000	128.000	5115.000
GR	130.000	5118.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	39.300	14.000	5031.000	5037.000	425.000	475.000	450.000	0.0	0.0	0.0
GR	130.000	4730.000	128.000	4780.000	126.000	4820.000	123.900	5000.000	123.600	5031.000
GR	122.700	5032.000	122.000	5034.000	122.700	5036.000	124.100	5037.000	124.200	5050.000
GR	123.800	5078.000	123.900	5084.000	125.300	5095.000	132.600	5123.000	0.0	0.0

X1	44.900	10.000	5036.000	5044.000	560.000	560.000	560.000	0.0	0.0	0.0
GR	130.000	4960.000	128.000	5000.000	127.600	5036.000	127.000	5040.000	127.500	5044.000
GR	128.000	5200.000	130.000	5260.000	132.000	5330.000	134.000	5400.000	136.000	5460.000

X1	49.400	9.000	5006.000	5014.000	450.000	450.000	450.000	0.0	0.0	0.0
GR	140.000	4960.000	132.000	5000.000	129.900	5006.000	129.000	5010.000	129.900	5014.000
GR	130.000	5020.000	132.000	5040.000	136.000	5142.000	132.000	5160.000	134.000	5230.000

D/S FACE MARLBORO RD. CULVERT SU-30

X1	50.850	12.000	5000.000	5004.000	145.000	145.000	145.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	138.000	138.000	0.0
GR	144.000	4920.000	140.000	4965.000	135.100	5000.000	134.100	5000.301	133.400	5001.000
GR	133.100	5002.000	133.400	5003.000	134.100	5003.699	135.100	5004.000	140.000	5150.000
GR	142.000	5180.000	144.000	5250.000	0.0	0.0	0.0	0.0	0.0	0.0
SB	1.000	1.500	2.800	0.0	3.100	0.0	12.600	0.0	133.100	133.100

U/S FACE MARLBORO RD. CULVERT SU-30

X1	51.150	15.000	5000.000	5004.000	30.000	30.000	30.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	137.100	141.700	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	141.700	141.700	0.0
BT	14.000	4900.000	144.000	144.000	4940.000	143.000	142.000	4985.000	142.000	136.000
BT	5000.000	141.700	135.100	5000.301	141.700	136.100	5001.000	141.700	136.800	5002.000
BT	141.700	137.100	5003.000	141.700	136.800	5003.699	141.700	136.100	5004.000	141.700
BT	135.100	5110.000	142.000	136.000	5200.000	142.000	140.000	5240.000	144.000	141.000
BT	5310.000	144.000	144.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	144.000	4900.000	142.000	4940.000	136.000	4985.000	135.100	5000.000	134.100	5000.301
GR	133.400	5001.000	133.100	5002.000	133.400	5003.000	134.100	5003.699	135.100	5004.000
GR	136.000	5110.000	140.000	5200.000	141.000	5240.000	142.000	5280.000	144.000	5310.000
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IHLEQ = 1. THEREFORE FRICTION LOSS (HL) IS CALCULATED AS A FUNCTION OF PROFILE TYPE, WHICH CAN VARY FROM REACH TO REACH. SEE DOCUMENTATION FOR DETAILS.

 HEC2 RELEASE DATED NOV 76 UPDATED AUG1977
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

T1 SUDBURY FIS BOSTON OFFICE 11/04/77
 T2 10, 50, 100, 500-YEAR PROFILE NO. P-075
 T3 PANTRY BROOK 50-YEAR PROFILE P-075-2

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	-1.000000	0.0	0.0	0.	0.0	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IHLEQ = 1. THEREFORE FRICTION LOSS (HL) IS CALCULATED AS A FUNCTION OF
 PROFILE TYPE, WHICH CAN VARY FROM REACH TO REACH. SEE DOCUMENTATION FOR
 DETAILS.

HEC2 RELEASE DATED NOV 76 UPDATED AUG1977

ERROR CORR - 01,02

MODIFICATION - 50,51,52,53

T1	SUDBURY	FIS BOSTON OFFICE	11/04/77
T2	10, 50, 100, 500-YEAR PROFILE	NO. P-075	
T3	PANTRY BROOK	100-YEAR PROFILE P-075-3	

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	-1.000000	0.0	0.0	0.	0.0	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IHLEQ = 1. THEREFORE FRICTION LOSS (HL) IS CALCULATED AS A FUNCTION OF PROFILE TYPE, WHICH CAN VARY FROM REACH TO REACH. SEE DOCUMENTATION FOR DETAILS.

HEC2 RELEASE DATED NOV 76 UPDATED AUG1977

ERROR CORR - 01,02

MODIFICATION - 50,51,52,53

T1 SUDBURY FIS BOSTON OFFICE 11/04/77
T2 10, 50, 100, 500-YEAR PROFILE NO. P-075
T3 PANTRY BROOK 500-YEAR PROFILE P-075-4

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	-1.000000	0.0	0.0	0.	0.0	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IHLEQ = 1. THEREFORE FRICTION LOSS (HL) IS CALCULATED AS A FUNCTION OF PROFILE TYPE, WHICH CAN VARY FROM REACH TO REACH. SEE DOCUMENTATION FOR DETAILS.

HEC2 RELEASE DATED NOV 76 UPDATED AUG1977

ERROR CORR - 01,02
MODIFICATION - 50,51,52,53

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

PANTRY BROOK

SUMMARY PRINTOUT TABLE 100

SECNO	EGLWC	ELLC	EGPRS	ELTRD	QPR	QWEIR	CLASS	H3	DEPTH	CWSEL	VCH	EG
15.250	121.13	122.60	0.0	127.00	133.00	0.0	59.00	0.0	4.23	121.03	3.48	121.21
15.250	121.68	122.60	0.0	127.00	206.00	0.0	59.00	0.0	4.66	121.46	4.96	121.84
15.250	121.84	122.60	0.0	127.00	240.00	0.0	59.00	0.0	4.75	121.55	5.68	122.05
15.250	122.24	122.60	0.0	127.00	326.00	0.0	59.00	0.0	5.00	121.80	7.54	122.68
26.250	122.82	130.10	0.0	132.00	133.00	0.0	59.00	0.0	3.21	122.41	4.16	122.68
26.250	124.09	130.10	0.0	132.00	206.00	0.0	59.00	0.0	4.41	123.61	4.62	123.94
26.250	124.65	130.10	0.0	132.00	240.00	0.0	59.00	0.0	4.95	124.15	4.76	124.50
26.250	126.43	130.10	0.0	132.00	326.00	0.0	59.00	0.0	6.72	125.92	4.71	126.27
51.150	138.50	137.10	139.46	141.70	133.00	0.0	10.00	0.0	5.72	138.82	6.40	139.46
51.150	140.16	137.10	144.27	141.70	165.62	40.94	30.00	0.0	8.97	142.07	0.22	142.07
51.150	140.90	137.10	146.52	141.70	166.76	73.44	30.00	0.0	9.05	142.15	0.25	142.15
51.150	143.35	137.10	153.62	141.70	170.78	157.91	30.00	0.0	9.21	142.31	0.32	142.31

PANTRY BROOK

SUMMARY PRINTOUT TABLE 105

SECNO	CWSEL	HL	OLOSS	TOPWID	QLOB	QCH	QROB
14.000	120.02	1.74	0.22	8.90	0.0	133.00	0.0
* 14.000	121.17	0.87	-0.22	168.94	13.49	149.64	42.86
* 14.000	121.28	0.85	-0.23	193.58	19.69	157.77	62.55
* 14.000	121.40	1.06	-0.34	223.76	32.92	188.52	104.57
14.750	120.97	0.13	0.07	10.00	0.0	133.00	0.0
14.750	121.36	0.19	0.00	10.00	0.0	206.00	0.0
14.750	121.42	0.23	0.04	10.00	0.0	240.00	0.0
14.750	121.49	0.37	0.12	10.00	0.0	326.00	0.0
15.250	121.03	0.08	0.01	10.00	0.0	133.00	0.0
15.250	121.46	0.14	0.02	10.00	0.0	206.00	0.0
15.250	121.55	0.18	0.02	10.00	0.0	240.00	0.0
15.250	121.80	0.40	0.04	10.00	0.0	326.00	0.0
15.800	121.13	0.07	0.00	9.50	0.0	133.00	0.0
15.800	121.68	0.13	0.01	9.50	0.0	206.00	0.0
15.800	121.85	0.16	0.01	9.50	0.0	240.00	0.0
15.800	122.40	0.25	0.03	9.50	0.0	326.00	0.0
25.400	122.42	0.15	0.01	59.72	9.57	118.96	4.48
25.400	123.71	0.07	0.01	133.30	45.80	143.33	16.87
25.400	124.28	0.05	0.01	154.03	71.52	143.81	24.67
25.400	126.09	0.01	0.00	180.42	145.19	131.96	48.86
26.150	122.38	0.11	0.07	10.60	0.0	133.00	0.0
26.150	123.58	0.09	0.09	10.60	0.0	206.00	0.0
26.150	124.13	0.08	0.10	10.60	0.0	240.00	0.0
26.150	125.91	0.05	0.10	10.60	0.0	326.00	0.0
26.250	122.41	0.03	0.00	10.60	0.0	133.00	0.0
26.250	123.61	0.02	0.00	10.60	0.0	206.00	0.0
26.250	124.15	0.02	0.00	10.60	0.0	240.00	0.0
26.250	125.92	0.01	0.00	10.60	0.0	326.00	0.0
27.100	122.72	0.02	0.03	111.52	11.50	109.30	12.21
27.100	123.07	0.01	0.03	193.27	31.78	135.22	38.99

11	*	14.000	121.40	1.06	-0.34	223.76	32.92	188.52	104.57
12									
13		14.750	120.97	0.13	0.07	10.00	0.0	133.00	0.0
14		14.750	121.36	0.19	0.00	10.00	0.0	206.00	0.0
15		14.750	121.42	0.23	0.04	10.00	0.0	240.00	0.0
16		14.750	121.49	0.37	0.12	10.00	0.0	326.00	0.0
17									
18		15.250	121.03	0.08	0.01	10.00	0.0	133.00	0.0
19		15.250	121.46	0.14	0.02	10.00	0.0	206.00	0.0
20		15.250	121.55	0.18	0.02	10.00	0.0	240.00	0.0
21		15.250	121.80	0.40	0.04	10.00	0.0	326.00	0.0
22									
23		15.800	121.13	0.07	0.00	9.50	0.0	133.00	0.0
24		15.800	121.68	0.13	0.01	9.50	0.0	206.00	0.0
25		15.800	121.85	0.16	0.01	9.50	0.0	240.00	0.0
26		15.800	122.40	0.25	0.03	9.50	0.0	326.00	0.0
27									
28									
29		25.400	122.42	0.15	0.01	59.72	9.57	118.96	4.48
30		25.400	123.71	0.07	0.01	133.30	45.80	143.33	16.87
31		25.400	124.28	0.05	0.01	154.03	71.52	143.81	24.67
32		25.400	126.09	0.01	0.00	180.42	145.19	131.96	48.86
33									
34		26.150	122.38	0.11	0.07	10.60	0.0	133.00	0.0
35		26.150	123.58	0.09	0.09	10.60	0.0	206.00	0.0
36		26.150	124.13	0.08	0.10	10.60	0.0	240.00	0.0
37		26.150	125.91	0.05	0.10	10.60	0.0	326.00	0.0
38									
39		26.250	122.41	0.03	0.00	10.60	0.0	133.00	0.0
40		26.250	123.61	0.02	0.00	10.60	0.0	206.00	0.0
41		26.250	124.15	0.02	0.00	10.60	0.0	240.00	0.0
42		26.250	125.92	0.01	0.00	10.60	0.0	326.00	0.0
43									
44		27.100	122.72	0.02	0.03	111.52	11.50	109.30	12.21
45		27.100	123.97	0.01	0.03	193.27	31.78	135.22	38.99
46		27.100	124.54	0.01	0.03	207.12	44.08	139.23	56.70
47		27.100	126.30	0.00	0.03	246.76	80.25	142.49	103.26
48									
49									
50		49.400	131.43	3.46	0.06	32.69	6.24	81.20	45.56
51		49.400	131.79	3.76	0.09	37.16	11.75	116.05	78.20
52		49.400	131.91	3.86	0.11	38.81	14.52	131.51	93.96
53		49.400	132.08	3.98	0.17	42.72	21.49	171.38	133.13
54									
55	*	50.850	136.86	4.40	-1.35	4.00	0.0	133.00	0.0
56	*	50.850	138.04	0.11	0.12	112.68	31.80	40.76	133.44
57	*	50.850	138.07	0.14	0.15	113.64	37.15	46.96	155.89
58	*	50.850	138.03	0.27	0.25	112.27	50.26	64.80	210.94

SECNO	CWSEL	HL	OLOSS	TOPWID	QLOB	QCH	QROB
51.150	138.82	0.95	0.0	4.00	0.0	133.00	0.0
51.150	142.07	3.99	0.0	342.32	30.75	7.32	167.93
51.150	142.15	4.04	0.0	345.18	35.98	8.43	195.59
51.150	142.31	4.20	0.0	350.84	49.28	11.21	265.51

PANTRY BROOK

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
* 1.400	0.0	0.0	0.0	112.80	133.00	114.91	114.91	115.43	103.64	6.27	28.38	13.06
* 1.400	0.0	0.0	0.0	112.80	206.00	115.36	115.36	115.87	86.87	6.66	48.91	22.10
* 1.400	0.0	0.0	0.0	112.80	240.00	115.52	115.52	116.03	82.61	6.81	58.51	26.41
* 1.400	0.0	0.0	0.0	112.80	326.00	115.79	115.79	116.35	85.00	7.43	77.86	35.36
1.500	10.00	0.0	0.0	112.80	133.00	115.26	0.0	115.52	45.60	4.68	43.46	19.69
1.500	10.00	0.0	0.0	112.80	206.00	115.67	0.0	115.95	43.49	5.15	69.06	31.24
1.500	10.00	0.0	0.0	112.80	240.00	115.82	0.0	116.11	43.82	5.37	79.75	36.26
1.500	10.00	0.0	0.0	112.80	326.00	116.12	0.0	116.43	44.79	5.83	105.23	48.71
1.600	10.00	0.0	0.0	112.80	133.00	115.34	0.0	115.57	38.23	4.39	47.57	21.51
1.600	10.00	0.0	0.0	112.80	206.00	115.76	0.0	116.00	37.15	4.86	74.55	33.80
1.600	10.00	0.0	0.0	112.80	240.00	115.91	0.0	116.15	36.35	5.00	87.15	39.80
1.600	10.00	0.0	0.0	112.80	326.00	116.21	0.0	116.48	37.10	5.42	114.74	53.52
1.700	10.00	0.0	0.0	112.80	133.00	115.41	0.0	115.60	31.97	4.11	52.10	23.52
1.700	10.00	0.0	0.0	112.80	206.00	115.83	0.0	116.03	31.46	4.56	80.74	36.73
1.700	10.00	0.0	0.0	112.80	240.00	115.96	0.0	116.19	33.14	4.83	91.03	41.69
1.700	10.00	0.0	0.0	112.80	326.00	116.27	0.0	116.51	34.00	5.24	119.39	55.91
7.300	560.00	0.0	0.0	114.20	133.00	117.18	0.0	117.48	33.87	4.62	33.81	22.85
7.300	560.00	0.0	0.0	114.20	206.00	117.70	0.0	118.17	41.96	5.82	42.78	31.80
7.300	560.00	0.0	0.0	114.20	240.00	117.91	0.0	118.46	44.51	6.27	46.76	35.98
7.300	560.00	0.0	0.0	114.20	326.00	118.35	0.0	119.09	52.64	7.40	54.98	44.93
12.400	510.00	0.0	0.0	116.00	133.00	118.79	0.0	118.96	24.90	3.81	50.82	26.65
12.400	510.00	0.0	0.0	116.00	206.00	119.46	0.0	119.64	21.42	4.15	76.86	44.51
12.400	510.00	0.0	0.0	116.00	240.00	119.72	0.0	119.91	20.19	4.26	89.01	53.41
12.400	510.00	0.0	0.0	116.00	326.00	120.30	0.0	120.49	17.55	4.41	122.46	77.83
14.000	160.00	0.0	0.0	116.10	133.00	120.02	0.0	120.92	192.98	7.63	17.44	9.57
* 14.000	160.00	0.0	0.0	116.10	206.00	121.17	121.17	121.48	54.09	5.21	82.09	28.01
* 14.000	160.00	0.0	0.0	116.10	240.00	121.28	121.28	121.57	53.39	5.30	100.96	32.84
* 14.000	160.00	0.0	0.0	116.10	326.00	121.40	121.40	121.75	66.29	6.07	127.56	40.04
14.750	75.00	0.0	0.0	116.80	133.00	120.97	0.0	121.13	9.35	3.19	41.71	43.50
14.750	75.00	0.0	0.0	116.80	206.00	121.36	0.0	121.68	16.99	4.52	45.59	49.98
14.750	75.00	0.0	0.0	116.80	240.00	121.42	0.0	121.84	22.08	5.19	46.23	51.07
14.750	75.00	0.0	0.0	116.80	326.00	121.49	0.0	122.24	38.97	6.95	46.90	52.22

13	1.500	10.00	0.0	0.0	112.80	133.00	115.28	0.0	115.92	43.88	4.88	69.06	31.24
14	1.500	10.00	0.0	0.0	112.80	206.00	115.67	0.0	115.95	43.49	5.15	79.75	36.26
15	1.500	10.00	0.0	0.0	112.80	240.00	115.82	0.0	116.11	43.82	5.37	105.23	48.71
16	1.500	10.00	0.0	0.0	112.80	326.00	116.12	0.0	116.43	44.79	5.83	105.23	48.71
17	1.600	10.00	0.0	0.0	112.80	133.00	115.34	0.0	115.57	38.23	4.39	47.57	21.51
18	1.600	10.00	0.0	0.0	112.80	206.00	115.76	0.0	116.00	37.15	4.86	74.55	33.80
19	1.600	10.00	0.0	0.0	112.80	240.00	115.91	0.0	116.15	36.35	5.00	87.15	39.80
20	1.600	10.00	0.0	0.0	112.80	326.00	116.21	0.0	116.48	37.10	5.42	114.74	53.52
21	1.700	10.00	0.0	0.0	112.80	133.00	115.41	0.0	115.60	31.97	4.11	52.10	23.52
23	1.700	10.00	0.0	0.0	112.80	206.00	115.83	0.0	116.03	31.46	4.56	80.74	36.73
24	1.700	10.00	0.0	0.0	112.80	240.00	115.96	0.0	116.19	33.14	4.83	91.03	41.69
25	1.700	10.00	0.0	0.0	112.80	326.00	116.27	0.0	116.51	34.00	5.24	119.39	55.91
27	7.300	560.00	0.0	0.0	114.20	133.00	117.18	0.0	117.48	33.87	4.62	33.81	22.85
28	7.300	560.00	0.0	0.0	114.20	206.00	117.70	0.0	118.17	41.96	5.82	42.78	31.80
29	7.300	560.00	0.0	0.0	114.20	240.00	117.91	0.0	118.46	44.51	6.27	46.76	35.98
30	7.300	560.00	0.0	0.0	114.20	326.00	118.35	0.0	119.09	52.64	7.40	54.98	44.93
32	12.400	510.00	0.0	0.0	116.00	133.00	118.79	0.0	118.96	24.90	3.81	50.82	26.65
33	12.400	510.00	0.0	0.0	116.00	206.00	119.46	0.0	119.64	21.42	4.15	76.86	44.51
34	12.400	510.00	0.0	0.0	116.00	240.00	119.72	0.0	119.91	20.19	4.26	89.01	53.41
35	12.400	510.00	0.0	0.0	116.00	326.00	120.30	0.0	120.49	17.55	4.41	122.46	77.83
37	14.000	160.00	0.0	0.0	116.10	133.00	120.02	0.0	120.92	192.98	7.63	17.44	9.57
38	* 14.000	160.00	0.0	0.0	116.10	206.00	121.17	121.17	121.48	54.09	5.21	82.09	28.01
39	* 14.000	160.00	0.0	0.0	116.10	240.00	121.28	121.28	121.57	53.39	5.30	100.96	32.84
40	* 14.000	160.00	0.0	0.0	116.10	326.00	121.40	121.40	121.75	66.29	6.07	127.56	40.04
42	14.750	75.00	0.0	0.0	116.80	133.00	120.97	0.0	121.13	9.35	3.19	41.71	43.50
43	14.750	75.00	0.0	0.0	116.80	206.00	121.36	0.0	121.68	16.99	4.52	45.59	49.98
44	14.750	75.00	0.0	0.0	116.80	240.00	121.42	0.0	121.84	22.08	5.19	46.23	51.07
45	14.750	75.00	0.0	0.0	116.80	326.00	121.49	0.0	122.24	38.97	6.95	46.90	52.22
47	15.250	50.00	127.00	122.60	116.80	133.00	121.03	0.0	121.21	20.97	3.48	38.21	29.05
48	15.250	50.00	127.00	122.60	116.80	206.00	121.46	0.0	121.84	39.47	4.96	41.53	32.79
49	15.250	50.00	127.00	122.60	116.80	240.00	121.55	0.0	122.05	51.05	5.68	42.23	33.59
50	15.250	50.00	127.00	122.60	116.80	326.00	121.80	0.0	122.68	122.75	7.54	43.25	29.42
52	15.800	55.00	0.0	0.0	116.60	133.00	121.13	0.0	121.29	9.52	3.16	42.13	43.11
53	15.800	55.00	0.0	0.0	116.60	206.00	121.68	0.0	121.97	16.23	4.35	47.31	51.14
54	15.800	55.00	0.0	0.0	116.60	240.00	121.85	0.0	122.22	20.02	4.91	48.89	53.64
55	15.800	55.00	0.0	0.0	116.60	326.00	122.40	0.0	122.96	27.54	6.02	54.14	62.12
57	* 15.810	1.00	125.20	130.00	117.70	133.00	120.38	120.38	121.73	340.36	9.52	14.49	7.21
	* 15.810	1.00	125.20	130.00	117.70	206.00	121.28	121.28	123.09	311.34	11.05	19.35	11.67
	* 15.810	1.00	125.20	130.00	117.70	240.00	121.68	121.68	123.67	298.25	11.59	21.48	13.90
	* 15.810	1.00	125.20	130.00	117.70	326.00	122.56	122.56	125.02	281.15	12.87	26.27	19.44

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
16.030	22.00	125.20	130.00	117.70	133.00	121.48	120.38	122.16	107.75	6.75	20.46	12.81
3.65 16.030	22.00	125.20	130.00	117.70	206.00	122.55	121.28	123.54	113.29	8.16	26.20	19.35
16.030	22.00	125.20	130.00	117.70	240.00	123.00	121.68	124.12	114.98	8.71	28.59	22.38
16.030	22.00	125.20	130.00	117.70	326.00	123.93	122.56	125.88	452.48	11.03	29.16	15.33
16.040	1.00	0.0	0.0	117.70	133.00	122.04	0.0	122.21	9.96	3.30	40.34	42.15
1292 16.040	1.00	0.0	0.0	117.70	206.00	123.38	0.0	123.62	10.36	3.88	53.04	64.01
16.040	1.00	0.0	0.0	117.70	240.00	123.95	0.0	124.21	10.56	4.11	58.41	73.84
16.040	1.00	0.0	0.0	117.70	326.00	126.07	0.0	126.08	0.11	0.57	1074.65	991.18
17.000	96.00	0.0	0.0	118.00	133.00	122.26	0.0	122.28	3.98	1.68	176.19	66.64
17.000	96.00	0.0	0.0	118.00	206.00	123.65	0.0	123.65	0.68	0.87	458.10	250.30
083 17.000	96.00	0.0	0.0	118.00	240.00	124.24	0.0	124.24	0.43	0.75	595.10	364.48
17.000	96.00	0.0	0.0	118.00	326.00	126.08	0.0	126.08	0.14	0.53	1082.64	856.99
19.800	280.00	0.0	0.0	118.10	133.00	122.31	0.0	122.31	0.71	0.90	294.95	158.19
19.800	280.00	0.0	0.0	118.10	206.00	123.66	0.0	123.67	0.33	0.74	524.21	360.96
068 19.800	280.00	0.0	0.0	118.10	240.00	124.25	0.0	124.25	0.26	0.70	633.93	475.09
19.800	280.00	0.0	0.0	118.10	326.00	126.08	0.0	126.08	0.12	0.58	1016.19	933.47
25.400	560.00	0.0	0.0	119.00	133.00	122.42	0.0	122.48	4.88	1.95	84.11	60.18
25.400	560.00	0.0	0.0	119.00	206.00	123.71	0.0	123.74	2.21	1.65	207.60	138.61
188 25.400	560.00	0.0	0.0	119.00	240.00	124.28	0.0	124.30	1.48	1.47	290.76	197.53
25.400	560.00	0.0	0.0	119.00	326.00	126.09	0.0	126.10	0.44	0.98	593.41	493.73
26.150	75.00	0.0	0.0	119.20	133.00	122.38	0.0	122.66	25.49	4.21	31.60	26.35
26.150	75.00	0.0	0.0	119.20	206.00	123.58	0.0	123.92	21.37	4.65	44.34	44.56
388 26.150	75.00	0.0	0.0	119.20	240.00	124.13	0.0	124.48	20.06	4.79	50.11	53.59
26.150	75.00	0.0	0.0	119.20	326.00	125.91	0.0	126.25	14.57	4.73	68.97	85.40
26.250	10.00	132.00	130.10	119.20	133.00	122.41	0.0	122.68	24.62	4.16	31.95	26.81
26.250	10.00	132.00	130.10	119.20	206.00	123.61	0.0	123.94	20.96	4.62	44.62	44.99
058 26.250	10.00	132.00	130.10	119.20	240.00	124.15	0.0	124.50	19.75	4.76	50.37	54.01
26.250	10.00	132.00	130.10	119.20	326.00	125.92	0.0	126.27	14.47	4.71	69.15	85.71
27.100	85.00	0.0	0.0	119.50	133.00	122.72	0.0	122.73	1.51	1.07	163.17	108.28
27.100	85.00	0.0	0.0	119.50	206.00	123.97	0.0	123.98	0.70	0.92	354.83	245.84
098 27.100	85.00	0.0	0.0	119.50	240.00	124.54	0.0	124.55	0.49	0.84	468.31	343.54
27.100	85.00	0.0	0.0	119.50	326.00	126.30	0.0	126.30	0.18	0.62	868.17	771.19
30.300	320.00	0.0	0.0	119.40	133.00	122.91	0.0	123.08	17.29	3.81	52.46	31.98
30.300	320.00	0.0	0.0	119.40	206.00	124.04	0.0	124.11	6.03	2.75	171.35	83.90
336 30.300	320.00	0.0	0.0	119.40	240.00	124.58	0.0	124.61	3.07	2.12	271.77	137.04
30.300	320.00	0.0	0.0	119.40	326.00	126.31	0.0	126.31	0.44	0.99	827.38	489.94

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
44.900	560.00	0.0	0.0	127.00	133.00	128.12	0.0	128.20	105.27	3.87	76.19	12.96
44.900	560.00	0.0	0.0	127.00	206.00	128.25	0.0	128.33	99.19	4.13	103.24	20.68
44.900	560.00	0.0	0.0	127.00	240.00	128.30	0.0	128.39	96.15	4.22	115.11	24.48
44.900	560.00	0.0	0.0	127.00	326.00	128.49	0.0	128.57	71.98	4.06	154.01	38.43
49.400	450.00	0.0	0.0	129.00	133.00	131.43	0.0	131.71	60.44	5.12	38.34	17.11
49.400	450.00	0.0	0.0	129.00	206.00	131.79	0.0	132.18	72.04	6.23	50.48	24.27
49.400	450.00	0.0	0.0	129.00	240.00	131.91	0.0	132.36	77.33	6.69	55.36	27.29
49.400	450.00	0.0	0.0	129.00	326.00	132.08	0.0	132.73	105.07	8.15	62.21	31.80
* 50.850	145.00	0.0	0.0	133.10	133.00	136.86	136.86	138.50	303.43	10.28	12.93	7.64
* 50.850	145.00	0.0	0.0	133.10	206.00	138.04	138.04	138.07	7.25	2.31	177.53	76.50
* 50.850	145.00	0.0	0.0	133.10	240.00	138.07	138.07	138.11	9.44	2.64	180.48	78.11
* 50.850	145.00	0.0	0.0	133.10	326.00	138.03	138.03	138.11	18.48	3.68	176.30	75.83
51.150	30.00	141.70	137.10	133.10	133.00	138.82	0.0	139.46	84.03	6.40	20.77	14.51
51.150	30.00	141.70	137.10	133.10	206.00	142.07	0.0	142.07	0.03	0.22	1411.55	1254.68
51.150	30.00	141.70	137.10	133.10	240.00	142.15	0.0	142.15	0.03	0.25	1439.70	1289.23
51.150	30.00	141.70	137.10	133.10	326.00	142.31	0.0	142.31	0.06	0.32	1495.98	1359.04

PANTRY BROOK

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
* 1.400	133.00	114.91	0.0	0.0	0.0	35.91	0.0
* 1.400	206.00	115.36	0.44	0.0	0.0	56.62	0.0
* 1.400	240.00	115.52	0.16	0.0	0.0	64.05	0.0
* 1.400	326.00	115.79	0.27	0.0	0.0	76.86	0.0
1.500	133.00	115.26	0.0	0.35	0.0	51.94	10.00
1.500	206.00	115.67	0.42	0.32	0.0	71.32	10.00
1.500	240.00	115.82	0.14	0.30	0.0	78.00	10.00
1.500	326.00	116.12	0.30	0.33	0.0	92.00	10.00
1.600	133.00	115.34	0.0	0.08	0.0	55.51	10.00
1.600	206.00	115.76	0.42	0.08	0.0	74.82	10.00
1.600	240.00	115.91	0.15	0.09	0.0	82.31	10.00
1.600	326.00	116.21	0.31	0.09	0.0	96.70	10.00
1.700	133.00	115.41	0.0	0.07	0.0	59.19	10.00
1.700	206.00	115.83	0.42	0.07	0.0	78.59	10.00
1.700	240.00	115.96	0.14	0.06	0.0	84.48	10.00
1.700	326.00	116.27	0.31	0.06	0.0	98.91	10.00
7.300	133.00	117.18	0.0	1.77	0.0	16.45	560.00
7.300	206.00	117.70	0.52	1.87	0.0	17.85	560.00
7.300	240.00	117.91	0.22	1.95	0.0	18.43	560.00
7.300	326.00	118.35	0.43	2.07	0.0	19.59	560.00
12.400	133.00	118.79	0.0	1.61	0.0	35.32	510.00
12.400	206.00	119.46	0.67	1.76	0.0	43.34	510.00
12.400	240.00	119.72	0.26	1.81	0.0	46.61	510.00
12.400	326.00	120.30	0.58	1.95	0.0	83.98	510.00
14.000	133.00	120.02	0.0	1.23	0.0	8.90	160.00
* 14.000	206.00	121.17	1.15	1.71	0.0	168.94	160.00
* 14.000	240.00	121.28	0.10	1.56	0.0	193.58	160.00
* 14.000	326.00	121.40	0.13	1.10	0.0	223.76	160.00
14.750	133.00	120.97	0.0	0.95	0.0	10.00	75.00
14.750	206.00	121.36	0.39	0.19	0.0	10.00	75.00
14.750	240.00	121.42	0.06	0.15	0.0	10.00	75.00
14.750	326.00	121.48	0.06	0.08	0.0	10.00	75.00

13	1.500	133.00	115.26	0.0	0.33	0.0	51.94	10.00
14	1.500	206.00	115.67	0.42	0.32	0.0	71.32	10.00
15	1.500	240.00	115.82	0.14	0.30	0.0	78.00	10.00
16	1.500	326.00	116.12	0.30	0.33	0.0	92.00	10.00
17	1.600	133.00	115.34	0.0	0.08	0.0	55.51	10.00
18	1.600	206.00	115.76	0.42	0.08	0.0	74.82	10.00
19	1.600	240.00	115.91	0.15	0.09	0.0	82.31	10.00
20	1.600	326.00	116.21	0.31	0.09	0.0	96.70	10.00
21								
22	1.700	133.00	115.41	0.0	0.07	0.0	59.19	10.00
23	1.700	206.00	115.83	0.42	0.07	0.0	78.59	10.00
24	1.700	240.00	115.96	0.14	0.06	0.0	84.48	10.00
25	1.700	326.00	116.27	0.31	0.06	0.0	98.91	10.00
26								
27	7.300	133.00	117.18	0.0	1.77	0.0	16.45	560.00
28	7.300	206.00	117.70	0.52	1.87	0.0	17.85	560.00
29	7.300	240.00	117.91	0.22	1.95	0.0	18.43	560.00
30	7.300	326.00	118.35	0.43	2.07	0.0	19.59	560.00
31								
32	12.400	133.00	118.79	0.0	1.61	0.0	35.32	510.00
33	12.400	206.00	119.46	0.67	1.76	0.0	43.34	510.00
34	12.400	240.00	119.72	0.26	1.81	0.0	46.61	510.00
35	12.400	326.00	120.30	0.58	1.95	0.0	83.98	510.00
36								
37	14.000	133.00	120.02	0.0	1.23	0.0	8.90	160.00
38	* 14.000	206.00	121.17	1.15	1.71	0.0	168.94	160.00
39	* 14.000	240.00	121.28	0.10	1.56	0.0	193.58	160.00
40	* 14.000	326.00	121.40	0.13	1.10	0.0	223.76	160.00
41								
42	14.750	133.00	120.97	0.0	0.95	0.0	10.00	75.00
43	14.750	206.00	121.36	0.39	0.19	0.0	10.00	75.00
44	14.750	240.00	121.42	0.06	0.15	0.0	10.00	75.00
45	14.750	326.00	121.49	0.06	0.08	0.0	10.00	75.00
46								
47	15.250	133.00	121.03	0.0	0.05	0.0	10.00	50.00
48	15.250	206.00	121.46	0.43	0.10	0.0	10.00	50.00
49	15.250	240.00	121.55	0.09	0.12	0.0	10.00	50.00
50	15.250	326.00	121.80	0.25	0.31	0.0	10.00	50.00
51								
52	15.800	133.00	121.13	0.0	0.11	0.0	9.50	55.00
53	15.800	206.00	121.68	0.55	0.22	0.0	9.50	55.00
54	15.800	240.00	121.85	0.17	0.30	0.0	9.50	55.00
55	15.800	326.00	122.40	0.55	0.60	0.0	9.50	55.00
56								
57	* 15.810	133.00	120.38	0.0	-0.75	0.0	84.61	1.00
	* 15.810	206.00	121.28	0.90	-0.40	0.0	110.56	1.00
	* 15.810	240.00	121.68	0.39	-0.17	0.0	121.95	1.00
	* 15.810	326.00	122.56	0.89	0.17	0.0	148.91	1.00

SECNO Q CWSEL DIFWSP DIFWSX DIFKWS TOPWID XLCH

16.030 133.00 121.48 0.0 1.10 0.0 116.50 22.00
 16.030 206.00 122.55 1.07 1.27 0.0 148.50 22.00
 16.030 240.00 123.00 0.44 1.32 0.0 162.31 22.00
 16.030 326.00 123.93 0.94 1.37 0.0 191.68 22.00

16.040 133.00 122.04 0.0 0.56 0.0 9.50 1.00
 16.040 206.00 123.38 1.34 0.83 0.0 9.50 1.00
 16.040 240.00 123.95 0.57 0.95 0.0 9.50 1.00
 16.040 326.00 126.07 2.13 2.14 0.0 244.27 1.00

17.000 133.00 122.26 0.0 0.22 0.0 182.34 96.00
 17.000 206.00 123.65 1.39 0.26 0.0 222.39 96.00
 17.000 240.00 124.24 0.59 0.29 0.0 239.45 96.00
 17.000 326.00 126.08 1.83 0.00 0.0 290.00 96.00

19.800 133.00 122.31 0.0 0.05 0.0 157.38 280.00
 19.800 206.00 123.66 1.35 0.01 0.0 181.09 280.00
 19.800 240.00 124.25 0.59 0.01 0.0 191.77 280.00
 19.800 326.00 126.08 1.83 0.00 0.0 225.00 280.00

25.400 133.00 122.42 0.0 0.12 0.0 59.72 560.00
 25.400 206.00 123.71 1.29 0.05 0.0 133.30 560.00
 25.400 240.00 124.28 0.57 0.03 0.0 154.03 560.00
 25.400 326.00 126.09 1.81 0.01 0.0 180.42 560.00

26.150 133.00 122.38 0.0 -0.04 0.0 10.60 75.00
 26.150 206.00 123.58 1.20 -0.13 0.0 10.60 75.00
 26.150 240.00 124.13 0.54 -0.16 0.0 10.60 75.00
 26.150 326.00 125.91 1.78 -0.18 0.0 10.60 75.00

26.250 133.00 122.41 0.0 0.03 0.0 10.60 10.00
 26.250 206.00 123.61 1.20 0.03 0.0 10.60 10.00
 26.250 240.00 124.15 0.54 0.02 0.0 10.60 10.00
 26.250 326.00 125.92 1.77 0.02 0.0 10.60 10.00

27.100 133.00 122.72 0.0 0.30 0.0 111.52 85.00
 27.100 206.00 123.97 1.26 0.37 0.0 193.27 85.00
 27.100 240.00 124.54 0.57 0.39 0.0 207.12 85.00
 27.100 326.00 126.30 1.76 0.38 0.0 246.76 85.00

30.300 133.00 122.91 0.0 0.19 0.0 54.87 320.00
 30.300 206.00 124.04 1.14 0.07 0.0 155.07 320.00
 30.300 240.00 124.58 0.53 0.04 0.0 219.43 320.00
 30.300 326.00 126.31 1.73 0.01 0.0 400.84 320.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
44.900	133.00	128.12	0.0	3.15	0.0	205.96	560.00
44.900	206.00	128.25	0.13	2.97	0.0	212.43	560.00
44.900	240.00	128.30	0.06	2.85	0.0	215.20	560.00
44.900	326.00	128.49	0.18	2.01	0.0	224.05	560.00
49.400	133.00	131.43	0.0	3.31	0.0	32.69	450.00
49.400	206.00	131.79	0.36	3.54	0.0	37.16	450.00
49.400	240.00	131.91	0.12	3.61	0.0	38.81	450.00
49.400	326.00	132.08	0.17	3.59	0.0	42.72	450.00
* 50.850	133.00	136.86	0.0	5.43	0.0	4.00	145.00
* 50.850	206.00	138.04	1.18	6.25	0.0	112.68	145.00
* 50.850	240.00	138.07	0.03	6.16	0.0	113.64	145.00
* 50.850	326.00	138.03	-0.04	5.95	0.0	112.27	145.00
51.150	133.00	138.82	0.0	1.96	0.0	4.00	30.00
51.150	206.00	142.07	3.25	4.02	0.0	342.32	30.00
51.150	240.00	142.15	0.08	4.08	0.0	345.18	30.00
51.150	326.00	142.31	0.16	4.28	0.0	350.84	30.00

SUMMARY OF ERRORS

CAUTION SECNO= 1.400 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.400 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.400 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.400 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 14.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 14.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 14.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 14.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 14.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 14.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 15.810 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 15.810 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 15.810 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 15.810 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 15.810 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 15.810 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 15.810 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY

* 50.850	133.00	136.86	0.0	5.43	0.0	4.00	145.00
* 50.850	206.00	138.04	1.18	6.25	0.0	112.68	145.00
* 50.850	240.00	138.07	0.03	6.16	0.0	113.64	145.00
* 50.850	326.00	138.03	-0.04	5.95	0.0	112.27	145.00
51.150	133.00	138.82	0.0	1.96	0.0	4.00	30.00
51.150	206.00	142.07	3.25	4.02	0.0	342.32	30.00
51.150	240.00	142.15	0.08	4.08	0.0	345.18	30.00
51.150	326.00	142.31	0.16	4.28	0.0	350.84	30.00

SUMMARY OF ERRORS

CAUTION	SECNO=	1.400	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	1.400	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	1.400	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	1.400	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	14.000	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	14.000	PROFILE=	2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	14.000	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	14.000	PROFILE=	3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	14.000	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	14.000	PROFILE=	4	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	15.810	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	15.810	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	15.810	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	15.810	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	15.810	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	15.810	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	15.810	PROFILE=	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	15.810	PROFILE=	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	15.810	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	15.810	PROFILE=	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	15.810	PROFILE=	4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	50.850	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	50.850	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	50.850	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	50.850	PROFILE=	2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	50.850	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	50.850	PROFILE=	3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	50.850	PROFILE=	3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	50.850	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	50.850	PROFILE=	4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	50.850	PROFILE=	4	20 TRIALS ATTEMPTED TO BALANCE WSEL

Run 1/13/78

HEC2 RELEASE DATED NOV 76 UPDATED AUG1977
ERROR CORR - 01.02
MODIFICATION - 50,51,52,53

FINAL FHF RUN

1 SUDBURY FIS BOSTON OFFICE 11/04/77
2 10, 50, 100, 500-YEAR PROFILE NO. P-075
3 PANTRY BROOK 10-YEAR PROFILE P-075-1

1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	F0
	0.	2.	0.	0.	-1.000000	0.0	0.0	0.	0.0	0.0

2	NPROF	IPLDT	PREVS	XSECV	XSECH	FN	ALLDC	IRW	CHNTM	ITRACE
	1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	203.000	-18.000	33.000	49.000	0.0	0.0	0.0	0.0	0.0	0.0

5	LPRNT	NUMSEC	*****REQUESTED SECTION NUMBERS*****							
	-10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

6	YIHLEO	ICOPY								
	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	0.050	0.050	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
	4.000	133.000	206.000	240.000	326.000	0.0	0.0	0.0	0.0	0.0

	1.400	15.000	5030.000	5040.000	0.0	0.0	0.0	0.0	0.0	0.0
	126.000	4770.000	124.000	4815.000	122.000	4850.000	120.000	4890.000	118.000	5000.000
	113.500	5030.000	112.800	5035.000	113.500	5040.000	114.600	5042.000	114.000	5052.000
	118.000	5180.000	120.000	5300.000	122.000	5310.000	124.000	5330.000	126.000	5430.000

	1.500	0.0	0.0	0.0	10.000	10.000	10.000	0.0	0.0	0.0
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 HEC2 RELEASE DATED NOV 76 UPDATED AUG1977
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

REC 10/3/79

FINAL TYPE 1

C	T1	T2	T3	J1	J2	J3	J5	J6	NC	QT	ET	X1	GR	GR	GR	ET
	SUDBURY	FIS	BOSTON OFFICE													
	TYPE 1 ENCROACHMENT RUN															
	PANTRY BROOK	NATURAL PROFILE														
	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR						
	0.	2.	0.	0.	0.0	0.0	0.0	0.	115.520	0.0						
	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE						
	1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
	VARIABLE CODES FOR SUMMARY PRINTOUT															
	110.000	0.0	200.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
	LPRNT	NUMSEC	*****REQUESTED SECTION NUMBERS*****													
	-10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
	IHLQ	ICOPY														
	1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
	0.050	0.050	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0						
	2.000	240.000	240.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
	0.0	0.0	9.100	0.0	0.0	0.0	0.0	0.0	0.0	5003.000	5067.000					
	1.400	15.000	5030.000	5040.000	0.0	0.0	0.0	0.0	0.0	0.0						
	126.000	4770.000	124.000	4815.000	122.000	4850.000	120.000	4890.000	118.000	5000.000						
	113.500	5030.000	112.800	5035.000	113.500	5040.000	114.600	5042.000	114.800	5052.000						
	118.000	5180.000	120.000	5300.000	122.000	5310.000	124.000	5330.000	126.000	5430.000						
	0.0	0.0	9.100	0.0	0.0	0.0	0.0	0.0	4996.000	5074.000						

HEC2 RELEASE DATED NOV 76 UPDATED AUG1977

ERROR CORR - 01,02

MODIFICATION - 50,51,52,53

T1 SUDBURY FIS BOSTON OFFICE 08/28/79
T2 TYPE 1 ENCROACHMENT RUN NO.P-075
T3 PANTRY BROOK 0.9 FOOT RISE P-075-2

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.0	0.0	0.0	0.	116.420	0.0
J2	NPROF	IFLOT	FRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IHLEQ = 1. THEREFORE FRICTION LOSS (HL) IS CALCULATED AS A FUNCTION OF PROFILE TYPE, WHICH CAN VARY FROM REACH TO REACH. SEE DOCUMENTATION FOR DETAILS.

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG1977
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

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

PANTRY BROOK NATURAL

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	SYCHR	STENCR
1.400	115.52	0.0	116.03	64.27	36.53	160.71	42.75	0.0	0.0	5030.00	5040.00	0.0
1.400	116.42	0.90	116.56	56.46	44.27	124.67	71.06	64.00	5003.00	5030.00	5040.00	5067.00
1.500	115.82	0.0	116.10	77.98	38.43	143.01	58.56	0.0	0.0	5030.00	5040.00	0.0
1.500	116.46	0.64	116.57	63.73	42.58	118.02	79.40	78.00	4996.00	5030.00	5040.00	5074.00
1.600	115.91	0.0	116.15	82.26	38.85	137.91	63.23	0.0	0.0	5030.00	5040.00	0.0
1.600	116.48	0.57	116.59	65.83	42.22	116.30	81.48	82.00	4994.00	5030.00	5040.00	5076.00
1.700	115.96	0.0	116.19	84.44	39.04	135.40	65.56	0.0	0.0	5030.00	5040.00	0.0
1.700	116.50	0.54	116.60	66.96	42.12	115.15	82.73	84.00	4993.00	5030.00	5040.00	5077.00

29														
30		7.300	117.92	0.0	118.46	18.42	12.02	208.02	19.96	0.0	0.0	5190.00	5200.00	0.0
31		7.300	117.87	-0.05	118.43	18.30	11.79	208.40	19.81	40.00	5175.00	5190.00	5200.00	5215.00
32														
33		12.400	119.72	0.0	119.91	46.67	48.23	143.55	48.22	0.0	0.0	5090.00	5100.00	0.0
34		12.400	119.72	-0.01	119.90	46.61	48.18	143.65	48.16	50.00	5070.00	5090.00	5100.00	5120.00
35														
36	*	14.000	121.27	0.0	121.57	192.99	19.60	158.16	62.25	0.0	0.0	5000.00	5010.00	0.0
37	*	14.000	121.23	-0.05	121.94	30.00	13.65	210.61	15.74	30.00	4990.00	5000.00	5010.00	5020.00
38														
39		14.750	121.42	0.0	121.84	10.00	0.0	240.00	0.0	0.0	0.0	5000.00	5010.00	0.0
40		14.750	121.84	0.42	122.20	10.00	0.0	240.00	0.0	0.0	0.0	5000.00	5010.00	0.0
41														
42		15.250	121.55	0.0	122.05	10.00	0.0	240.00	0.0	0.0	0.0	5000.00	5010.00	0.0
43		15.250	121.97	0.42	122.43	10.00	0.0	240.00	0.0	0.0	0.0	5000.00	5010.00	0.0
44														
45		15.800	121.85	0.0	122.22	9.50	0.0	240.00	0.0	0.0	0.0	5000.00	5009.50	0.0
46		15.800	122.27	0.42	122.59	9.50	0.0	240.00	0.0	0.0	0.0	5000.00	5009.50	0.0
47														
48	*	15.810	121.68	0.0	123.67	121.96	0.0	219.00	20.99	0.0	0.0	5000.00	5009.50	0.0
49	*	15.810	121.68	0.0	123.67	121.96	0.0	219.00	20.99	0.0	0.0	5000.00	5009.50	0.0
50														
51		16.030	123.00	0.0	124.12	162.31	0.0	219.01	20.99	0.0	0.0	5000.00	5009.50	0.0
52		16.030	123.00	0.0	124.12	162.31	0.0	219.01	20.99	0.0	0.0	5000.00	5009.50	0.0
53														
54		16.040	123.95	0.0	124.21	9.50	0.0	240.00	0.0	0.0	0.0	5000.00	5009.50	0.0
55		16.040	123.95	0.0	124.21	9.50	0.0	240.00	0.0	0.0	0.0	5000.00	5009.50	0.0
56														
57														

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
1	17.000	124.24	0.0	124.24	239.44	125.75	40.70	73.55	0.0	0.0	5000.00	5010.00	0.0
2	17.000	124.24	-0.00	124.25	200.00	125.98	41.23	72.79	200.00	4880.00	5000.00	5010.00	5080.00
3													
4	19.800	124.25	0.0	124.25	191.77	139.69	33.42	66.89	0.0	0.0	5068.00	5076.00	0.0
5	19.800	124.25	0.00	124.25	150.00	141.70	35.07	63.23	150.00	4980.00	5068.00	5076.00	5130.00
6													
7	25.400	124.28	0.0	124.30	154.03	71.52	143.82	24.67	0.0	0.0	5000.00	5020.00	0.0
8	25.400	124.28	0.00	124.31	150.00	71.51	143.91	24.57	150.00	4900.00	5000.00	5020.00	5050.00
9													
10	26.150	124.13	0.0	124.48	10.60	0.0	240.00	0.0	0.0	0.0	5000.00	5010.00	0.0
11	26.150	124.13	0.00	124.48	10.60	0.0	240.00	0.0	0.0	0.0	5000.00	5010.00	0.0

12		26.250	124.15	0.0	124.50	10.60	0.0	240.00	0.0	0.0	0.0	5000.00	5010.60	0.0
13		26.250	124.15	0.00	124.50	10.60	0.0	240.00	0.0	0.0	0.0	5000.00	5010.60	0.0
14		26.250	124.15	0.00	124.50	10.60	0.0	240.00	0.0	0.0	0.0	5000.00	5010.60	0.0
15		27.100	124.54	0.0	124.55	207.12	44.07	139.23	56.70	0.0	0.0	5000.00	5035.00	0.0
16		27.100	124.54	0.00	124.55	200.00	44.12	139.32	56.55	200.00	4930.00	5000.00	5035.00	5130.00
17		27.100	124.54	0.00	124.55	200.00	44.12	139.32	56.55	200.00	4930.00	5000.00	5035.00	5130.00
18		30.300	124.58	0.0	124.61	219.43	55.57	82.87	101.56	0.0	0.0	5046.00	5054.00	0.0
19		30.300	124.58	0.00	124.61	150.00	56.30	84.64	99.06	150.00	5000.00	5046.00	5054.00	5150.00
20		30.300	124.58	0.00	124.61	150.00	56.30	84.64	99.06	150.00	5000.00	5046.00	5054.00	5150.00
21		34.800	124.96	0.0	125.03	113.90	14.24	77.12	148.64	0.0	0.0	5006.00	5014.00	0.0
22		34.800	125.00	0.04	125.08	85.00	16.53	83.23	140.25	85.00	4990.00	5006.00	5014.00	5075.00
23		34.800	125.00	0.04	125.08	85.00	16.53	83.23	140.25	85.00	4990.00	5006.00	5014.00	5075.00
24		39.300	125.46	0.0	125.48	229.02	130.92	33.47	75.61	0.0	0.0	5031.00	5037.00	0.0
25		39.300	125.54	0.08	125.56	190.00	155.48	36.06	48.45	190.00	4880.00	5031.00	5037.00	5070.00
26		39.300	125.54	0.08	125.56	190.00	155.48	36.06	48.45	190.00	4880.00	5031.00	5037.00	5070.00
27		44.900	128.30	0.0	128.39	215.20	34.25	34.71	171.04	0.0	0.0	5036.00	5044.00	0.0
28		44.900	128.36	0.06	128.47	160.00	9.47	37.65	192.87	160.00	5030.00	5036.00	5044.00	5190.00
29		44.900	128.36	0.06	128.47	160.00	9.47	37.65	192.87	160.00	5030.00	5036.00	5044.00	5190.00
30		49.400	131.91	0.0	132.36	38.81	14.52	131.51	93.96	0.0	0.0	5006.00	5014.00	0.0
31		49.400	132.77	0.86	133.92	9.00	0.0	231.99	8.00	9.00	5006.00	5006.00	5014.00	5015.00
32		49.400	132.77	0.86	133.92	9.00	0.0	231.99	8.00	9.00	5006.00	5006.00	5014.00	5015.00
33		50.850	138.07	0.0	138.11	113.66	37.15	46.95	155.90	0.0	0.0	5000.00	5004.00	0.0
34	*	50.850	138.04	-0.01	138.10	113.40	37.12	47.09	155.79	0.0	0.0	5000.00	5004.00	0.0
35	*	50.850	138.04	-0.01	138.10	113.40	37.12	47.09	155.79	0.0	0.0	5000.00	5004.00	0.0
36		51.150	142.15	0.0	142.15	345.19	35.98	8.43	195.59	0.0	0.0	5000.00	5004.00	0.0
37		51.150	142.15	-0.00	142.15	345.18	35.98	8.43	195.59	0.0	0.0	5000.00	5004.00	0.0
38		51.150	142.15	-0.00	142.15	345.18	35.98	8.43	195.59	0.0	0.0	5000.00	5004.00	0.0

SUMMARY OF ERRORS

CAUTION SECNO= 14.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 14.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 14.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 14.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 15.810 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 15.810 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 15.810 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 15.810 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 15.810 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 15.810 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 50.850 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 50.850 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 50.850 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 50.850 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 50.850 PROFILE= 2 MINIMUM SPECIFIC ENERGY

FLOODWAY DATA, PANTRY BROOK NATURAL
 PROFILE NO. 2

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
1.400	56.	105.	2.3	116.4	115.5	0.9
1.500	64.	115.	2.1	116.4	115.8	0.6
1.600	66.	118.	2.0	116.5	115.9	0.6
1.700	67.	121.	2.0	116.5	116.0	0.5
7.300	18.	46.	5.2	117.9	117.9	0.0
12.400	47.	89.	2.7	119.7	119.7	0.0
14.000	30.	43.	5.6	121.3	121.3	0.0
14.750	10.	50.	4.8	121.8	121.4	0.4
15.250	10.	44.	5.5	121.9	121.5	0.4
15.800	10.	53.	4.5	122.2	121.8	0.4
15.810	122.	21.	11.2	121.7	121.7	0.0
16.030	162.	29.	8.4	123.0	123.0	0.0
16.040	10.	58.	4.1	123.9	123.9	0.0
17.000	200.	568.	0.4	124.2	124.2	0.0
19.800	150.	585.	0.4	124.3	124.3	0.0
25.400	150.	290.	0.8	124.3	124.3	0.0
26.150	11.	50.	4.8	124.1	124.1	0.0
26.250	11.	50.	4.8	124.2	124.2	0.0
27.100	200.	467.	0.5	124.5	124.5	0.0
30.300	150.	252.	1.0	124.6	124.6	0.0
34.800	85.	130.	1.8	125.0	125.0	0.0
39.300	190.	232.	1.0	125.6	125.5	0.1
44.900	160.	104.	2.3	128.4	128.3	0.1
49.400	9.	29.	8.2	132.8	131.9	0.9
50.850	113.	180.	1.3	138.1	138.1	0.0
51.150	345.	1440.	0.2	142.1	142.1	0.0

STATION 0+34.80

..... ORIGINAL

ELEV.	130.0	128.0	126.0	124.0	123.5	120.2	123.2	124.0
DIST.	4945.0	4955.0	4970.0	5000.0	5006.0	5010.0	5014.0	5090.0

ELEV.	126.0	128.0	130.0
DIST.	5110.0	5115.0	5118.0

STATION 0+39.30

..... ORIGINAL

ELEV.	130.0	128.0	126.0	123.9	123.6	122.7	122.0	122.7
DIST.	4730.0	4780.0	4820.0	5000.0	5031.0	5032.0	5034.0	5036.0

ELEV.	124.1	124.2	123.8	123.9	125.3	132.6
DIST.	5037.0	5050.0	5078.0	5084.0	5095.0	5123.0

STATION 0+44.90

..... ORIGINAL

ELEV.	130.0	128.0	127.6	127.0	127.5	128.0	130.0	132.0
DIST.	4960.0	5000.0	5036.0	5040.0	5044.0	5200.0	5260.0	5330.0

ELEV.	134.0	136.0
DIST.	5400.0	5460.0

STATION 0+49.40

..... ORIGINAL

ELEV.	140.0	132.0	129.9	129.0	129.9	130.0	132.0	132.0
DIST.	4960.0	5000.0	5006.0	5010.0	5014.0	5020.0	5040.0	5160.0

ELEV.	134.0	136.0
DIST.	5230.0	5142.0

PROBLEM CONTAINS 2 ERRORS

ALL DISTANCES MULTIPLIED BY 1.0
ALL ELEVATIONS MULTIPLIED BY 1.0

STATION 0+01.40

..... ORIGINAL

ELEV.	126.0	124.0	122.0	120.0	118.0	115.1	113.5	112.8
DIST.	4770.0	4815.0	4850.0	4890.0	5000.0	5033.0	5030.0	5035.0
ELEV.	113.5	114.6	114.8	118.0	120.0	122.0	124.0	126.0
DIST.	5040.0	5042.0	5052.0	5180.0	5300.0	5310.0	5330.0	5430.0

STATION 0+07.30

..... ORIGINAL

ELEV.	126.0	124.0	122.0	120.0	118.5	115.2	114.5	114.2
DIST.	4620.0	4690.0	4925.0	5000.0	5185.0	5190.0	5195.0	5200.0
ELEV.	118.5	120.0	122.0	124.0				
DIST.	5205.0	5280.0	5290.0	5310.0				

STATION 0+12.40

..... ORIGINAL

ELEV.	126.0	124.0	122.0	120.0	116.7	116.0	116.7	120.0
DIST.	4820.0	4970.0	5000.0	5070.0	5090.0	5095.0	5100.0	5120.0
ELEV.	122.0	124.0	126.0					
DIST.	5278.0	5290.0	5310.0					

STATION 0+14.00

..... ORIGINAL

ELEV.	128.0	126.0	124.0	122.0	120.5	116.1	120.5	122.0
DIST.	4730.0	4840.0	4900.0	4915.0	5000.0	5005.0	5010.0	5280.0
ELEV.	128.0							
DIST.	5350.0							

STATION 0+17.00

..... ORIGINAL

ELEV.	126.0	122.0	120.8	118.0	118.0	120.8	122.0	126.0
DIST.	4830.0	4895.0	5000.0	5003.0	5007.0	5010.0	5070.0	5120.0

STATION 0+19.80

..... ORIGINAL

ELEV.	126.0	124.0	122.0	120.6	119.5	119.7	118.5	118.1
DIST.	4955.0	4968.0	4978.0	5000.0	5048.0	5067.0	5068.0	5071.0

ELEV.	118.5	119.7	120.1	122.0	126.0
DIST.	5076.0	5080.0	5081.0	5130.0	5180.0

STATION 0+25.40

..... ORIGINAL

ELEV.	132.0	124.0	122.0	120.5	119.0	119.0	120.5	122.0
DIST.	4850.0	4900.0	4990.0	5000.0	5005.0	5015.0	5020.0	5025.0

ELEV.	124.0	130.0	132.0
DIST.	5050.0	5100.0	5120.0

STATION 0+27.10

..... ORIGINAL

ELEV.	128.0	124.0	122.0	120.5	119.5	119.5	120.5	122.0
DIST.	4865.0	4935.0	4985.0	5000.0	5010.0	5025.0	5035.0	5050.0

ELEV.	124.0	130.0
DIST.	5130.0	5160.0

STATION 0+30.30

..... ORIGINAL

ELEV.	130.0	128.0	126.0	124.0	122.5	120.0	119.4	120.0
DIST.	4950.0	4960.0	4990.0	5000.0	5040.0	5046.0	5050.0	5054.0

ELEV.	122.5	124.0	126.0	128.0	130.0
DIST.	5060.0	5150.0	5380.0	5420.0	5430.0