

Mulberry Creek
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T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 MULBERRY CREEK, CALDWELL CO., NC DATE: 1/16/86 10-YEAR EVENT

J1	2.0	0.00484	80.0							
J21.0		-1.								
J338.	39.	1.	51.	55.	26.	56.	13.	14.	15.	
J343.	46.	47.	0.	38.	39.	1.	42.	53.	21.	
J322.	54.	4.	27.	28.	36.					
J5-10.	-10.									
J61.0										
QT7.0	4529.	8735.	12846.	27820.	6010.	3915.	2572.			
NC0.1	0.1	0.05	0.1	0.3						
NH6.0	0.2	4596.	0.13	4856.	0.08	5001.01	0.055	5042.	0.08	
NH5062.	0.15	5162.								
X10.01	21.	5000.00	5042.	0.	0.	0.		-0.21		
X310.							85.01	86.		
GR112.	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.	
GR92.	4410.	88.	4820.	85.13	5001.01	80.32	5002.	79.56	5010.	
GR79.33	5020.	78.41	5030.	79.18	5040.	81.92	5041.	83.91	5042.	
GR86.	5062.	84.	5092.	80.	5102.	80.	5132.	84.	5142.	
GR88.	5150.	92.	5162.							
NC			0.3	0.5						
NH6.0	0.2	4596.	0.13	4856.	0.08	5001.01	0.055	5042.	0.08	
NH5062.	0.15	5162.								
X1110.				110.	110.	110.		0.21		
X310.							85.01	86.		
NH6.0	0.2	4596.	0.13	4856.	0.08	5000.	0.055	5042.	0.08	
NH5062.	0.15	5162.								
X1111.	27.	5000.	5042.	1.	1.	1.				
X42.0	90.21	4596.	87.03	4856.						
X310.							85.01	86.0		
BT-27.6	4104.5	112.	112.	4114.5	108.	108.	4124.5	104.	104.	
BT	4144.5	100.	100.	4332.	96.	96.	4410.	92.	92.	
BT	4820.	88.	88.	5000.	85.01	85.01	5001.	85.01	80.32	
BT	5001.01	85.79	80.32	5002.	85.76	80.32	5010.	85.55	82.88	
BT	5020.	85.27	82.56	5030.	84.99	82.24	5040.	84.73	81.92	
BT	5041.	84.77	83.91	5041.01	83.91	83.91	5042.	83.91	83.91	
BT	5062.	86.	86.	5092.	84.	84.	5102.	80.	80.	
BT	5132.	80.	80.	5142.	84.	84.	5150.	88.	88.	
BT	5162.	92.	92.							
GR112.	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.	
GR92.	4410.	88.	4820.	85.01	5000.	85.01	5001.	83.13	5001.01	
GR80.32	5002.	79.56	5010.	79.33	5020.	78.41	5030.	79.18	5040.	
GR81.92	5041.	83.91	5041.01	83.91	5042.	86.	5052.	84.	5092.	
GR80.	5102.	80.	5132.	84.	5142.	88.	5150.	92.	5162.	
NH6.0	0.2	4596.	0.13	4856.	0.08	5000.	0.055	5042.	0.08	
NH5062.	0.15	5162.								
X1129.				18.	18.	18.				
X2										
NH6.0	0.2	4596.	0.13	4856.	0.08	5001.01	0.055	5042.	0.08	
NH5062.	0.15	5162.								
X1130.	22.27	5001.01	5042.	1.	1.	1.				
X310.							85.01	80.86.		
X42.0	90.21	4596.	87.03	4856.						
GR112.	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.	
GR92.	4410.	88.	4820.	85.13	5001.01	80.32	5002.	79.56	5010.	
GR79.33	5020.	78.41	5030.	79.18	5040.	81.92	5041.	83.91	5042.	
GR86.	5062.	84.	5092.	80.	5102.	80.	5132.	84.	5142.	
GR88.	5150.	92.	5162.							
NH6.0	0.2	4596.	0.13	4856.	0.08	5001.01	0.055	5042.	0.08	

0.00
5001.01

0.00
5001.01

Handwritten annotations: 77.18, 5040.01, 79.18, 83.91

Handwritten annotations: 77.18, 5040.01

0.00
5001.01

0.00
5001.01

NH5062.	0.15	5162.								
X1167.			37.	37.	37.			0.18		
NC0.1	0.1	0.05	0.1	0.3						
NH6.0	0.2	5595.	0.13	6165.	0.08	6561.	0.055	<u>6646.</u> 6621.	0.08	
NH6826.	0.15	7007.								
X12120.	59.57.	6561.	6621.	1953.	1953.	1953.	94.	94.		
GR120.	5000.	112.	5050.	108.	5080.	112.	5100.	113.	5190.	
GR112.	5265.	110.	5300.	108.	5335.	107.	5395.	105.	5455.	
GR104.	5500.	102.	5535.	100.	5565.	96.	5575.	95.	5585.	
GR96.	5595.	100.	5610.	100.	5635.	100.	5665.	99.	5745.	
GR98.	5825.	98.	5915.	97.	6000.	96.	6075.	94.	6100.	
GR92.	6135.	88.	6140.	86.6	6150.	88.	6155.	92.	6165.	
GR93.	6190.	93.	6265.	94.	6390.	94.	6475.	92.	6525.	
GR91.6	6541.	92.	6561.	89.	6566.	87.	6567.	86.	6571.	
GR86.	6581.	86.5	6591.	86.5	6601.	87.	6607.	88.	6609.	
GR90.5	6621.	89.	6631.	92.	6646.	94.	6666.	96.	6696.	
GR97.	6766.	98.	6826.	98.	6864.	100.	6884.	102.	6904.	
GR104	6922.	106.	6957.	108.	6987.	112.	7007.			
NH6.0	0.2	4698.	0.13	4888.	0.08	5000.	0.055	<u>5140.</u> 5153.71	0.08	
NH5323.	0.15	5363.								
X13622.	227.4.	5000.	5153.71	1502.2	1502.2	1502.2		-1.13		
X42.0	4523.600.	4698.	4888.	4660.	103.	4840.	98.0	5000.		
GR108.7	4523.600.	104.106.3	4528.464	100.106.	4533.	96.	4543.	94.74	4660.	
GR92.79	4840.500.	92.96.	4913.	92.93.80	5000.	90.76	5077.	90.15	5090.	
GR89.81	5100.	89.97	5111.5	89.97	5111.51	89.97	5111.99	89.97	5112.	
GR89.97	5113.	89.97	5113.01	89.97	5113.49	89.97	5113.5	90.76	5119.	
GR93.04	5153.71	96.	5213.	96.22	5219.	100.	5323.	104.	5345.	
GR107.115359.	108.	5363.	GR 96.7	5140.	97.3	5150.	99.	5219.	111.5359.	
NC			0.3	0.5		59.				
NH3.0	0.13	5000.	0.055	<u>5153.71</u>	0.15	5363.				
X14205.2			<u>5140.</u>	583.	583.	583.		1.13		
X310.				<u>5125.0</u>		57.	110.	110.		
NH3.0	0.13	5000.	0.055	5153.71	0.15	5363.				
X14206.251.		5000.	5153.71	1.	1.	1.				
BT 50.	4523.600.	110.	108.110.	4528.	110.	104.110.	4533.	110.	100.	
BT	4543.600.	110.	96.110.	4660.800	110.	110.94.74	4840.	110.	92.79.107	
BT	4913.	109.84	92.104.	5000.	109.65	92.106.6	5000.01	112.51	109.65.100.6	
BT	5003.6	112.51	109.65	5003.61	112.51	106.27.	5005.99	112.51	106.27.100.	
BT	5010.	112.51	106.25	5025.	112.51	106.2	5045.	112.51	106.13	
BT	5051.5	112.51	106.11	5051.51	112.51	103.61	5051.99	112.51	103.61	
BT	5052.	112.51	93.79	5053.	112.51	93.79	5053.01	112.51	103.61	
BT	5053.49	112.51	103.61	5053.5	112.51	106.11	5077.	112.51	106.11	
BT	5090.	112.51	106.1	5100.	112.51	106.1	5111.5	112.51	106.1	
BT	5111.51	112.51	103.60	5111.99	112.51	103.6	5112.	112.51	89.97	
BT	5113.	112.51	89.97	5113.01	112.51	89.97	5113.49	112.51	103.6	
BT	5113.5	112.51	106.1	5119.	112.51	106.12	5125.	112.51	106.15	
BT	5140.3	112.51	106.22	5146.43.01	112.51	106.24	5150.	112.51	106.26.100.	
BT	5150.01	112.51	106.26	5151.5	112.51	106.26	5151.51	112.51	109.76	
BT	5153.7	112.51	109.76	5153.71	109.76	93.04	5213.	111.79	96.104.	
BT	5219.	112.	105.08	96.22	5323.	110.51	106.2.	5345.	110.2	104.110.
BT	5363.	110.	107.11	5363.	110.	108.				
GR108.	4523.	104.	4528.	100.	4533.	96.110.	4543.	94.74	4660.	
GR92.79	4840.	92.104.	4913.	92.100.6	5000.	109.65	5000.01	109.65	5003.6	
GR106.275003.61	106.27.100.	5005.09.99	104.99	5005.01	106.04	5010.	93.100.13	5025.		
GR93.80	5045.	93.79	5051.5	93.79	5051.51	93.79	5051.99	93.79	5052.	
GR93.79	5053.	93.79	5053.01	93.79	5053.49	93.79	5053.5	90.76	5077.	
GR90.15	5090.	89.81	5100.	89.97	5111.5	89.97	5111.51	89.97	5111.99	
GR89.97	5112.	89.97	5113.	89.97	5113.01	89.97	5113.49	89.97	5113.5	
GR90.76	5119.	97.18	5125.	96.7	5140.3	105.03	5146.43.01	105.27	5150.	
GR106.265150.01	106.26	5151.5	106.26	5151.51	109.76		5153.7	93.04	5153.71	

GR96.	5213.	96.22	5219.	100.	5323.	104.	5345.	107.11	5359.
GR108.	5369.			5125.0					
NH3.0	0.13	5000.	0.055	5153.71	0.15	5363.			
X14233.8				27.6	27.6	27.6			
X2									
NH3.0	0.13	5000.	0.055	5153.71	0.15	5363.			
X14234.8	18.	5000.	5153.71	1.	1.	1.			
X310.				25.0					
GR108.	4523.	104.	4528.	100.	4533.	110.	4543.60.	94.74.	4660.
GR92.79	4840.	92.104.	4913.	92.100.6	5000.	96.76	5077.	90.15	5090.
GR89.81	5100.	89.97	5111.5	89.97	5111.51	89.97	5111.99	89.97	5112.
GR89.97	5113.	89.97	5113.01	89.97	5113.49	89.97	5113.5	90.76	5119.
GR93.04	5153.71	96.4	5143.5	96.22	5219.	100.108.	5323.	104.	5345.
GR107.11	5359.	108.	5363.	105.0				110.	59
NH6.0	0.2	4543.	0.085	4573.	0.15	5000.	0.05	5153.71	0.085
NH5193.	0.15	5363.							
X14379.8	17.	5000.	5143.	145.	145.	145.		.15	
X42.0	95.68	4573.	95.	5193.					
NC0.1	0.1	0.05	0.1	0.3					
NH7.0	0.2	5086.	0.14	5284.	0.085	5528.	0.05	5637.	0.085
NH5770.	0.15	5976.	0.2	6325.					
X16065.	37.	5528.	5637.	1685.2	1685.2	1685.2			
X41.0	112.67	5976.							
GR140.	5000.	125.	5015.	120.	5020.	116.	5030.	112.	5045.
GR104.	5056.	100.	5070.	104.	5086.	105.	5126.	106.	5214.
GR104.	5284.	101.	5352.	105.	5487.	100.	5528.	94.	5540.
GR93.	5540.01	91.7	5543.	92.	5553.	92.7	5563.	92.8	5573.
GR93.	5583.	92.8	5593.	92.6	5603.	93.	5608.	100.	5637.
GR104.	5689.	108.	5770.	112.	5892.	112.	5944.	116.	6134.
GR119.	6154.	120.	6176.	124.	6200.	128.	6232.	132.	6297.
GR136.	6315.	140.	6325.	2475.	3774.	5805.			
NH6.0	0.2	5118.5	0.085	5130.	0.05	5210.	0.085	5710.	0.15
NH6338.	50.2	6573.							
X18085.	35.	5130.	5210.	2020.	2020.	2020.			
X42.0	107.21	5118.5	120.41	6338.5					
GR140.	5000.	137.	5010.	120.	5040.	116.	5055.	112.	5070.
GR108.	5085.	106.	5095.	107.8	5130.	103.	5140.	102.	5144.
GR101.	5145.	100.7	5150.	102.	5160.	101.3	5170.	100.4	5180.
GR100.5	5190.	101.	5192.	102.9	5195.	104.	5200.	108.	5210.
GR107.	5260.	108.	5475.	108.	5570.	110.	5710.	112.	5795.
GR116.	5930.	120.	6045.	124.	6150.	120.	6360.	124.	6385.
GR134.	6405.	134.	6420.	136.	6495.	139.	6535.	140.	6573.
NH7.0	0.2	4594.5	0.18	4932.	0.085	5000.01	0.05	5050.	0.085
NH5272.	0.15	5656.6	0.2	5825.4				5044.	
X110326.	32.	5000.01	5050.5044.	2241.6	2241.6	2241.6		-0.22	
X42.0	117.86	4932.	116.02	5272.					
GR140.	4382.2	136.	4482.	132.	4594.5	128.	4707.	124.	4830.
GR120.	4920.	116.	4945.	112.	4985.	108.58	5000.01	107.98	5001.01
GR105.79	5002.01	104.53	5002.02	103.49	5019.99	103.49	5020.	103.49	5021.
GR103.49	5022.	103.49	5022.01	103.90	5029.	103.93	5030.	104.8	5039.
GR104.85	5040.	105.79	5042.59	108.05	5044.	111.43	5050.	112.	5075.3
GR116.	5255.	120.	5545.	124.	5637.8	128.	5656.6	132.	5769.1
GR136.	5800.4.	140.	5825.4						
NC			0.3	0.5					
NH7.0	0.2	4547.	0.18	4945.	0.085	5000.01	0.05	5050.	0.085
NH5282.	0.15	5656.6	0.2	5825.4					
X110488.				161.4	161.4	161.4		0.22	
X310.							109.65	109.76	
X42.0	133.69	4547.	116.37	5282.					
NH7.0	0.2	4547.	0.18	4945.	0.085	5000.	0.05	5045.	0.085

X111519.25.	5000.	5023.75	1.0	1.0	1.0				
X43.0	101.86	5002.71	109.25	5023.75	116.14	5153.			
BT-25.	4826.	132.	132.	4849.	128.	128.	4880.	124.	124.
BT	4921.	120.	120.	4946.	116.	116.	4974.	117.3	117.3
BT	4984.	112.72	112.72	5000.	110.39	110.39	5001.	110.68	110.09
BT	5002.	110.77	108.58	5002.7	110.79	108.59	5005.7	110.85	108.68
ET	5010.6	110.96	108.84	5011.3	110.69	108.86	5012.	111.06	108.88
BT	5023.	111.3	109.25	5023.5	111.31	109.26	5023.75	111.08	111.08
BT	5032.85	111.38	111.38	5065.75	112.	112.	5136.75	116.	116.
BT	5596.75	120.	120.	5766.75	124.	124.	5828.75	128.	128.
BT	5887.8	132.	132.						
GR132.	4826.	128.	4849.	124.	4880.	120.	4921.	116.	4946.
GR117.3	4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58	5002.
GR108.59	5002.7	103.86	5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.	5065.75
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.	5887.8
NH5.0	0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5596.75	0.2
NH5887.8									
X111531.			11.6	11.6	11.6				
X2					1.0				
NH5.0	0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5596.75	0.2
NH5887.8									
X111532.25.	5000.	5023.75	1.0	1.0	1.0				
X310.						110.39	111.08		
X41.0	116.14	5153.							
GR132.	4826.	128.	4849.	124.	4880.	120.	4921.	116.	4946.
GR117.3	4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58	5002.
GR108.59	5002.7	103.86	5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.	5065.75
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.	5887.8
NH5.0	0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5596.75	0.2
NH5887.8									
X111551.			19.3	19.3	19.3		0.14		
NCO.1	0.1	0.05	0.1	0.3					
NH7.0	0.2	5035.	0.09	5376.5	0.085	5700.	0.053	5783.	0.085
NH5848.	0.15	5908.	0.2	6046.					
X112515.29.	5700.	5783.	964.	964.	964.				
X41.0	121.29	5376.5							
GR150.	5000.	148.	5005.	144.	5025.	143.	5035.	140.	5052.
GR136.	5070.	132.	5090.	128.	5112.	124.	5232.	121.	5392.
GR121.	5477.	121.	5645.	120.	5700.	118.	5718.	116.	5726.
GR112.	5734.	109.	5752.	109.	5770.	112.	5775.	114.	5778.
GR116.	5783.	120.	5848.	121.	5873.	124.	5908.	126.	5920.
GR140.	5945.	144.	5995.	150.	6013.	169.	6046.		
NH6.0	0.2	5045.	0.085	5081.	0.053	5159.	0.085	5527.	0.13
NH5746.	0.2	5779.							
X114590.33.	5081.	5159.	2075.	2075.	2075.				
X41.0	127.	5527.							
GR155.	5000.	148.	5015.	140.	5025.	124.	5045.	122.	5050.
GR121.	5081.	118.	5083.	115.	5086.	113.5	5090.	113.8	5100.
GR114.	5110.	115.	5118.	117.	5122.	117.	5131.	122.4	5152.
GR124.	5159.	119.	5199.	119.	5244.	120.	5264.	124.	5284.
GR125.	5294.	127.	5424.	127.	5609.	128.	5644.	132.	5679.
GR134.	5704.	136.	5714.	140.	5719.	152.	5734.	152.	5746.
GR151.	5756.	156.	5764.	168.	5779.				

EJ
T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 LITTLE M & MULBERRY CREEK, CALDWELL, CO., NC DATE:12/26/85 50-YEAR EVENT
J1 3.0 0.00484 80.0

15.0
-1.
T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE:12/26/85 100-YEAR EVENT
J1 4.0 0.00484 80.0
J23.0
-1.
T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE:12/26/85 500-YEAR EVENT
J1 5.0 0.00484 80.0
J215. -1.

ER

73 ○ MULBERRY CREEK, CALDWELL CO., NC DATE: 12/26/85 10-YEAR EVENT

J1 2.0 80.0 81

J21.0	1.1	3.	10.	51.	42.	5.	41.
J338.	11.	12.	38.	41.	40.	44.	49.
J525.	34.	39.	44.	43.	43.	39.	39.
J347.	46.	14.	41.	21.	22.	54.	4.
J389.	57.	← 23.	201.			63.23.	

* 85.01 5000.

* 83.91 5042.

J5-10.	-10.	3.	10.	51.	42.	5.	41.
J61.0	12.	0.	38.	41.	40.	44.	49.
J79.0	39.	14.	41.	21.	22.	54.	4.
J80.1	46.	1.	41.				
J10.01	57.	0.	201.				
J12.	10.	3.	10.	51.	42.	5.	41.
J14.	12.	0.	38.	41.	40.	44.	49.
J16.	39.	14.	41.	21.	22.	54.	4.
J18.	46.	1.	41.				
J20.	57.	0.	201.				

X310. 80.32

85.01 86.0

J21.0	1.1	3.	10.	51.	42.	5.	41.
J338.	11.	12.	38.	41.	40.	44.	49.
J525.	34.	39.	44.	43.	43.	39.	39.
J347.	46.	14.	41.	21.	22.	54.	4.
J389.	57.	← 23.	201.			63.23.	

J5-10.	-10.	3.	10.	51.	42.	5.	41.
J61.0	12.	0.	38.	41.	40.	44.	49.
J79.0	39.	14.	41.	21.	22.	54.	4.
J80.1	46.	1.	41.				
J10.01	57.	0.	201.				
J12.	10.	3.	10.	51.	42.	5.	41.
J14.	12.	0.	38.	41.	40.	44.	49.
J16.	39.	14.	41.	21.	22.	54.	4.
J18.	46.	1.	41.				
J20.	57.	0.	201.				

X310. 80.32

85.01 86.0

J21.0	1.1	3.	10.	51.	42.	5.	41.
J338.	11.	12.	38.	41.	40.	44.	49.
J525.	34.	39.	44.	43.	43.	39.	39.
J347.	46.	14.	41.	21.	22.	54.	4.
J389.	57.	← 23.	201.			63.23.	

X310. 80.32

85.01 86.0

J5-10.	-10.	3.	10.	51.	42.	5.	41.
J61.0	12.	0.	38.	41.	40.	44.	49.
J79.0	39.	14.	41.	21.	22.	54.	4.
J80.1	46.	1.	41.				
J10.01	57.	0.	201.				
J12.	10.	3.	10.	51.	42.	5.	41.
J14.	12.	0.	38.	41.	40.	44.	49.
J16.	39.	14.	41.	21.	22.	54.	4.
J18.	46.	1.	41.				
J20.	57.	0.	201.				

X310. 80.32

85.01 86.0

X310. 80.32

85.01 86.0

5002.01 85.76

83.13

5041.01 83.91

5042. 83.91

GR 112. 4104.5 108. 4114.5 104. 4124.5

100. 4144.5 96. 4332.6892. 4410.

88. 4820. 85.01 5000. 80.32 5001.

GR 80.32 5002. 79.56 5010. 79.33 5020.

79.18 5040. 79.18 5040.01

79.18 5041. 79.18 5041.01 83.91 5042.

GR 80. 5102. 80. 5132. 84. 5142.

GR 88. 5150. 92. 5162.

GR 7.0 4496. 8672. 12766. 27694.

2552. 3887. 5967.

GR140.	4382.2	136.	4482.	132.	4594.5	128.	4707.	124.	4830.
GR120.	4920.	116.	4945.	112.	4985.	108.58	5000.01	108.58	5001.
GR107.985001.01	107.98	5002.	105.79	5002.01	104.53	5002.02	103.49	5019.99	
GR103.495020.	103.49	5021.	103.49	5022.	103.49	5022.01	103.90	5029.	
GR103.935030.	104.8	5039.	104.85	5040.	105.79	5042.59	108.05	5042.6	
GR108.055044.	111.43	5050.	112.	5075.3	116.	5255.	120.	5545.	
GR124.	5637.8	128.	5656.6	132.	5769.1	136.	5800.4	140.	5825.4
NC		0.3	0.5						
X110326.38.	5000.	5045.	161.4	161.4	161.4				
X310.						109.65	109.76		
GR140.	4382.2	136.	4482.	132.	4594.5	128.	4707.	124.	4830.
GR120.	4920.	116.	4945.	112.	4985.	111.45	4990.	109.9	5000.
GR108.585000.01	108.58	5001.	107.98	5001.01	107.98	5002.	105.79	5002.01	
GR104.535002.02	103.49	5019.99	103.49	5020.	103.49	5021.	103.49	5022.	
GR103.495022.01	103.93	5030.	104.85	5040.	105.79	5042.59	108.05	5042.6	
GR108.055044.	109.04	5044.01	109.04	5044.99	109.86	5045.	111.43	5050.	
GR112.	5075.3	116.	5255.	120.	5545.	124.	5637.8	128.	5656.6
GR132.	5769.1	136.	5800.4	140.	5825.4				
X110489.			1.	1.	1.				
BT-35.	4382.2	140.	4482.	136.	4594.5	132.	4707.	124.	4830.
BT	4707.	128.	4830.	124.	4830.	124.	4920.	120.	120.
BT	4945.	116.	4985.	112.	4985.	112.	4990.	111.45	111.45
BT	5000.	109.9	5000.01	109.9	5000.01	109.9	5001.	109.9	108.58
BT	5001.01	110.16	5002.	110.16	5002.	107.98	5019.99	109.59	107.27
BT	5020.	109.59	5021.	109.57	103.49	5022.	109.6	103.49	
BT	5022.01	109.6	5030.	109.84	107.55	5040.	110.15	107.95	
BT	5042.6	110.23	5044.	110.27	108.05	5044.01	109.86	109.04	
BT	5044.99	109.86	5045.	109.86	109.86	5050.	111.43	111.43	
BT	5075.3	112.	5255.	116.	116.	5545.	120.	120.	
BT	5637.8	124.	5656.6	128.	128.	5769.1	132.	132.	
BT	5800.4	136.	5825.4	140.	140.				
X110501.			12.	12.	12.				
X2									
X110502.			1.	1.	1.				
X310.						109.65	109.76		
X110541.33.	4985.	5075.3	39.6	39.6	39.6		13		
GR140.	4382.2	136.	4482.	132.	4594.5	128.	4707.	124.	4830.
GR120.	4920.	116.	4945.	112.	4985.	108.58	5000.01	108.58	5001.
GR107.985001.01	107.98	5002.	105.79	5002.01	104.53	5002.02	103.49	5019.99	
GR103.495020.	103.49	5021.	103.49	5022.	103.49	5022.01	103.93	5030.	
GR104.855040.	105.79	5042.59	108.05	5042.6	108.05	5044.	111.43	5050.	
GR112.	5075.3	116.	5255.	120.	5545.	124.	5637.8	128.	5656.6
GR132.	5769.1	136.	5800.4	140.	5825.4				
NCO.1	0.1	0.05	0.1	0.3					
X111438.25.	5000.	5023.75	896.4	896.4	896.4		-0.03		
GR132.	4826.	128.	4849.	124.	4880.	120.	4921.	116.	4946.
GR112.	4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58	5002.
GR108.595002.7	103.86	5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.	
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.	5065.75
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.	5887.75
NC		0.3	0.5						
X111518.			80.2	80.2	80.2		0.03		
X310.						110.39	111.08		
X111519.25.	5000.	5023.75	1.0	1.0	1.0				
X42.0	104.86	5002.71	109.25	5023.75					
BT-25.	4826.	132.	4849.	128.	128.	4880.	124.	124.	
BT	4921.	120.	4946.	116.	116.	4974.	112.	112.	
BT	4984.	112.72	5000.	110.39	110.39	5001.	110.68	110.09	
BT	5002.	110.77	5002.7	110.79	108.59	5005.7	110.85	108.68	
BT	5010.6	110.96	5011.3	110.69	108.86	5012.	111.06	108.88	
BT	5023.	111.3	5023.5	111.31	109.26	5023.75	111.08	111.08	
BT	5032.85	111.38	5065.75	112.	112.	5136.75	116.	116.	

BT	5596.75	120.	120.	5766.75	124.	124.	5828.75	128.	128.
BT	5887.75	132.	132.						
GR132.	4826.	128.	4849.	124.	4880.	120.	4921.	116.	4946.
GR112.	4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58	5002.
GR108.595002.7	103.86		5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.	5065.75
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.	5887.75
X111531.			11.6	11.6	11.6				
X2									
X111532.25.	5000.	5023.75	1.0	1.0	1.0				
X310.							110.39	111.08	
GR132.	4826.	128.	4849.	124.	4880.	120.	4921.	116.	4946.
GR112.	4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58	5002.
GR108.595002.7	103.86		5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.	5065.75
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.	5887.75
X111551.			19.3	19.3	19.3		0.14		
NCO.1	0.1	0.05	0.1	0.3					
X112515.29.	5700.	5783.	964.	964.	964.	964.			
GR150.	5000.	148.	5005.	144.	5025.	143.	5035.	140.	5052.
GR136.	5070.	132.	5090.	128.	5112.	124.	5232.	121.	5392.
GR121.	5477.	121.	5645.	120.	5700.	118.	5718.	116.	5726.
GR112.	5734.	109.	5752.	109.	5770.	112.	5775.	114.	5778.
GR116.	5783.	120.	5848.	121.	5873.	124.	5908.	126.	5920.
GR140.	5945.	144.	5995.	150.	6013.	169.	6046.		
X114590.22.	5081.	5152.	2075.	2075.	2075.	2075.			
GR155.	5000.	148.	5015.	140.	5025.	124.	5045.	122.	5050.
GR121.	5081.	148.	5083.	115.	5086.	113.5	5090.	113.8	5100.
GR114.	5110.	115.	5118.	117.	5122.	117.	5131.	122.4	5152.
GR124.	5159.	119.	5199.	119.	5244.	120.	5264.	124.	5284.
GR125.	5294.	127.	5424.						

EJ

T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 ~~LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE: (12/26/85) 50-YEAR EVENT~~
J1 3.0 0.00484 ~~80.0~~ 81.

J22.0 -1.

T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 ~~LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE: (12/26/85) 100-YEAR EVENT~~
J1 4.0 0.00484 ~~80.0~~

J23.0 -1.

T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 ~~LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE: (12/26/85) 500-YEAR EVENT~~
J1 5.0 0.00484 ~~80.0~~ 86.

J21/4. -1.

ER

T2	FILENAME: MC.HEC	ENG: SKE	EA: KMC & EKL & DLY	CON: 20
T3	MULBERRY CREEK, CALDWELL CO., NC	DATE: 1/16/86	10-YEAR	EVEN
J1	2.0	0.00484		80.0
J21.0		-1.		
J338.	39.	1.	51.	55.
J343.	46.	47.	0.	38.
J322.	54.	4.	27.	28.
J5-10.	-10.			36.
J61.0				
QT7.0	4529.	8735.	12846.	27820.
NCO.1	0.1	0.05	0.1	0.3
NH6.0	0.2	4596.	0.13	4856.
NH5062.	0.15	5162.		0.08
X10.01	21.	5000.00	5042.	0.
X310.				0.
GR112.	4104.5	108.	4114.5	104.
GR92.	4410.	88.	4820.	85.01
GR79.33	5020.	78.41	5030.	79.18
GR86.	5062.	84.	5092.	80.
GR88.	5150.	92.	5162.	5102.
NC			0.3	0.5
NH6.0	0.2	4596.	0.13	4856.
NH5062.	0.15	5162.		0.08
X1140.140.			140.	140.
X310.				140.
NH6.0	0.2	4596.	0.13	4856.
NH5062.	0.15	5162.		0.055
X1141.	26.	5000.	5042.	1.
X42.0	90.21	4596.	87.03	4856.
X310.				85.01
BT-26.	4104.5	112.	112.	4114.5
BT	4144.5	100.	100.	4332.
BT	4820.	88.	88.	5000.
BT	5001.01	85.79	80.32	5002.
BT	5020.	85.27	82.56	5030.
BT	5040.01	84.73	79.18	5041.
BT	5042.	83.91	83.91	5062.
BT	5102.	80.	80.	5132.
BT	5150.	88.	88.	5162.
GR112.	4104.5	108.	4114.5	104.
GR92.	4410.	88.	4820.	85.01
GR80.32	5002.	79.56	5010.	79.33
GR79.18	5040.01	79.18	5041.	79.18
GR84.	5092.	80.	5102.	80.
GR92.	5162.			5132.
NH6.0	0.2	4596.	0.13	4856.
NH5062.	0.15	5162.		0.08
X1129.				18.
X2				18.
NH6.0	0.2	4596.	0.13	4856.
NH5062.	0.15	5162.		0.08
X1130.	21.	5000.00	5042.	1.
X310.				1.
X42.0	90.21	4596.	87.03	4856.
GR112.	4104.5	108.	4114.5	104.
GR92.	4410.	88.	4820.	85.01
GR79.33	5020.	78.41	5030.	79.18
GR86.	5062.	84.	5092.	80.
GR88.	5150.	92.	5162.	5102.
NH6.0	0.2	4596.	0.13	4856.
NH5062.	0.15	5162.		0.08
X1167.				37.

Del

141

159

160

197

0.1K

2210 →	0.1	0.05	0.1	0.3	0.08	6561	0.055	66	0.08
	0.13	5595	6165	2012	4953				
	0.15	7007	2012	4953					
	0.15	6561	6646						
	5000	112	5050	108	5080	112	94	94	5190
	5265	110	5300	108	5335	107	5395	105	5455
	3500	102	5535	100	5565	96	5575	95	5585
	5595	100	5610	100	5635	100	5665	99	5745
	5825	98	5915	97	6000	96	6075	94	6100
	6135	88	6140	86.6	6150	88	6155	92	6165
	6190	93	6265	94	6390	94	6475	92	6525
	6561	89	6586	87	6567	86	6571	86	6581
	6591	85.5	6601	87	6607	88	6609	89	6631
	6646	94	6666	96	6696	97	6766	98	6826
	6864	100	6884	102	6904	104	6922	106	6957
	6987	112	7007						
	4496	8677	12766	27694	2552	3887	5967		
	0.2	4498	0.13	4888	0.08	5000	0.055	5153.71	0.08
	0.15	5363	5140.00	1562.2	1562.2	1562.2			
	5000	4898	91.74	4888					
	93.19	106.3	4640	106	4660	103	4840	98.00	5000.00
	5010	96.00	5025	93.80	5045	90.76	5077	90.15	5090
	5100	89.97	5111.5	89.97	5111.5	89.97	5111.99	89.97	5112
	5113	89.97	5113.01	89.97	5113.49	89.97	5113.5	90.76	5119
	5140	97.3	5150	99	5219	111	5359		
	0.13	5000	0.055	5153.71	0.15	5259			
	0.13	5000	583	583	583	583	110		
	0.13	5000	0.055	5125.00	0.15	5359			
	5000	5000	5125.00	1	1	1			
	4660	110	4800	110	4800	110	4913	109.84	104
	5000	109.65	5000.01	112.51	100.60	5009.99	5009.99	112.51	100.00
	5010	112.51	106.25	5025	112.51	106.2	5045	112.51	106.13
	5051.5	112.51	106.11	5051.51	112.51	103.61	5051.99	112.51	103.61
	5052	112.51	93.79	5053	112.51	93.79	5053.01	112.51	103.61
	5053.49	112.51	103.61	5053.5	112.51	106.11	5077	112.51	106.11
	5090	112.51	106.1	5100	112.51	106.1	5111.5	112.51	106.1
	5111.51	112.51	103.60	5111.99	112.51	103.6	5112	112.51	89.97
	5113	112.51	89.97	5113.01	112.51	89.97	5113.49	112.51	103.6
	5113.5	112.51	106.1	5119	112.51	106.12	5125	112.51	106.15
	5143	112.51	106.23	5143.01	112.51	96.70	5150	112.51	100.00
	5153.7	112.51	100.60	5153.71	109.76	100.60	5213	111.79	104.00
	5219	112	105.00	5223	110.51	108.00	5359	110.0	110
	4660	110.0	4800.0	104	4913	100.6	5000	100.6	5000.0
	5009.99	100	5010	98.8	5025	93.80	5045	93.79	5051.5
	5051.51	93.79	5051.99	93.79	5052	93.79	5053	93.79	5053.01
	5053.49	93.79	5053.5	90.76	5077	90.15	5090	89.81	5100
	5111.51	89.97	5111.51	89.97	5111.99	89.97	5112	89.97	5113
	5113.01	89.97	5113.49	89.97	5113.5	90.76	5119	97.18	5125
	5143	96.700	5143.01	100.00	5150	100.60	5153.7	100.6	5153.71
	5213	105.00	5219	108.00	5323	110.0	5359		
	0.13	5000	0.055	5125.00	0.15	5359			
	0.13	5000	27.6	27.6	27.6	27.6			
	0.13	5000	0.055	5125.00	0.15	5359			
	5000	5000	5125.00	1	1	1			
	4660	110.0	4800	104	4913	100.6	5000	100	5010
	5025	94	5050	90.76	5077	90.15	5090	89.81	5100

3182.2 →

4365.2 →

4366.2 →

4393.8 →

4394.8 →

GR89.97	5112.	90.76	5119.	97.2	5125.	97.4	5143.	109	5150.
GR105.0	5219.	108.0	5323.	110.0	5359.				
NH6.0	0.2	4543.	0.085	4573.	0.15	5000.	0.05	5153.71	0.085
NH5193.	0.15	5363.							
X14379.8				145.	145.	145.		.18	
X42.0	95.68	4573.	95.	5193.					
NCD.1	0.1	0.05	0.1	0.3					
NH7.0	0.2	5086.	0.14	5284.	0.085	5528.	0.05	5637.	0.085
NH5770.	0.15	5976.	0.2	6325.					
X16065.37.		5528.	5637.	1780.2	1780.2	1685.2	1685.2		
X41.0	112.67	5976.		1720.2					
GR140.	5000.	125.	5015.	120.	5020.	116.	5030.	112.	5045.
GR104.	5056.	100.	5070.	104.	5086.	105.	5126.	106.	5214.
GR104.	5284.	101.	5352.	105.	5487.	100.	5528.	94.	5540.
GR93.	5540.01	91.7	5543.	92.	5553.	92.7	5563.	92.8	5573.
GR93.	5583.	92.8	5593.	92.6	5603.	93.	5608.	100.	5637.
GR104.	5689.	108.	5770.	112.	5892.	112.	5944.	116.	6134.
GR119.	6154.	120.	6176.	124.	6200.	128.	6232.	132.	6297.
GR136.	6315.	140.	6325.						
NH6.0	0.2	5118.5	0.085	5130.	0.05	5210.	0.085	5710.	0.15
NH6338.50.2		6573.		2110	2110	2110			
X18085.35.		5130.	5219.	2920.	2920.	2020.			
X42.0	107.21	5118.5	120.41	6338.5					
GR140.	5000.	137.	5010.	120.	5040.	116.	5055.	112.	5070.
GR108.	5085.	106.	5095.	107.8	5130.	103.	5140.	102.	5144.
GR107.	5145.	100.7	5150.	102.	5160.	101.3	5170.	100.4	5180.
GR100.5	5190.	101.	5192.	102.9	5195.	104.	5200.	108.	5210.
GR107.	5260.	108.	5475.	108.	5570.	110.	5710.	112.	5795.
GR116.	5930.	120.	6045.	124.	6150.	120.	6360.	124.	6385.
GR134.	6405.	134.	6420.	136.	6495.	139.	6535.	140.	6573.
NH7.0	0.2	4594.5	0.18	4932.	0.085	5000.01	0.05	5050.	0.085
NH5272.0.15		5656.6	0.2	5825.4	5825.4	5045.4			
X140326.52.		5000.01	5050.	2241.6	2241.6	2241.6			
X42.0	117.86	4932.	116.02	5272.					
GR140.	4382.2	136.	4482.	132.	4594.5	128.	4707.	124.	4830.
GR120.	4920.	116.	4945.	112.	4985.	108.58	5000.01	107.98	5001.01
GR105.795002.01		104.53	5002.02	103.49	5019.99	103.49	5020.	103.49	5021.
GR103.495022.		103.49	5022.01	103.90	5029.	103.93	5030.	104.8	5039.
GR104.855040.		105.79	5042.59	108.05	5044.	111.43	5050.	112.	5075.3
GR116.	5255.	120.	5545.	124.	5637.8	128.	5656.6	132.	5769.1
GR136.	5800.4	140.	5825.4						
NC			0.3	0.5					
NH7.0	0.2	4547.	0.18	4945.	0.085	5000.01	0.05	5050.	0.085
NH5282.0.15		5656.6	0.2	5825.4				0.21	
X110488.				161.4	161.4	161.4		0.22	
X310.							109.65	109.76	
X42.0	133.69	4547.	116.37	5282.					
NH7.0	0.2	4547.	0.18	4945.	0.085	5000.	0.05	5045.	0.085
NH5282.0.15		5656.6	0.2	5825.4					
X110489.38.		5000.	5045.	1.	1.	1.			
X42.0	133.69	4547.	116.37	5282.					
BT-35.	4382.2	140.	140.	4482.	136.	136.	4594.5	132.	132.
BT	4707.	128.	128.	4830.	124.	124.	4920.	120.	120.
BT	4945.	116.	116.	4985.	112.	112.	4990.	111.45	111.45
BT	5060.	109.9	109.9	5000.01	109.9	108.58	5001.	109.9	108.58
BT	5001.01	110.16	107.98	5002.	110.16	107.98	5019.99	109.59	107.27
BT	5020.	109.59	103.49	5021.	109.57	103.49	5022.	109.6	103.49
BT	5022.01	109.6	107.27	5030.	109.84	107.55	5040.	110.15	107.95
BT	5042.6	110.23	108.05	5044.	110.27	108.05	5044.01	109.86	109.04
BT	5044.99	109.86	109.04	5045.	109.86	109.86	5050.	111.43	111.43
BT	5075.3	12.	112.	5255.	116.	116.	5545.	120.	120.
BT	5637.8	124.	124.	5656.6	128.	128.	5769.1	132.	132.

4539.8 →

6320 →

8430 →

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10854 →

11817	5800.4	136.	5825.4	140.	140.	4707.	128.	4830.
GR140.	4382.2	136.	4482.	4594.5	128.	4990.	109.9	3000.
GR120.	4920.	116.	4945.	4985.	111.45	5002.	103.49	5022.
GR108.595000.01	108.58	5001.01	107.98	5001.01	107.98	5021.	103.49	5022.
GR104.535002.02	103.49	5019.99	103.49	5020.	105.79	5042.59	108.05	5042.6
GR103.495022.01	103.93	5030.	104.85	5040.	105.79	5045.	111.43	5050.
GR108.055044.	109.04	5044.01	109.04	5044.99	109.86	5045.	111.43	5050.
GR112.	5075.3	116.	5255.	120.	544.	5637.8	128.	5656.6
GR132.	5769.1	136.	5800.4	140.	5825.4			
NH7.0	0.2	4547.	0.18	4945.	0.085	5000.	0.05	5045.
NH5282.	0.15	5656.6	0.2	5825.4				0.085
X148804.								
X2								
NH7.0	0.2	4547.	0.18	4945.	0.085	5000.01	0.05	5050.
NH5282.	0.15	5656.6	0.2	5825.4				0.085
X148802.32.		5000.01	5050.	1.				
X310.						109.65	109.76	
X42.0	133.69	4547.	116.7	5282.				
GR140.	4382.2	136.	4482.	132.	4594.5	4707.	124.	4830.
GR120.	4920.	116.	4945.	112.	4985.	5000.01	107.98	5001.01
GR105.795002.01	104.53	5002.02	103.49	5019.99	103.49	5020.	103.49	5021.
GR103.495022.	103.49	5022.01	103.90	5029.	103.93	5030.	104.8	5039.
GR104.855040.	105.79	5042.59	108.05	5044.	111.43	5050.	112.	5075.3
GR116.	5255.	120.	5545.	124.	5637.8	128.	5656.6	132.
GR136.	5800.4	140.	5825.4					
NH7.0	0.2	4547.	0.18	4945.	0.085	5000.01	0.05	5050.
NH5282.	0.15	5656.6	0.2	5825.4				0.085
X148844.								
MCO.1	0.1	0.05	0.1	0.3				
NH5.0	0.085	5000.	0.053	5023.75	0.085	5136.75	0.15	5578.
NH5887.8		5000.	5023.75	5136.75	0.085	5136.75	0.15	5578.
X14438.25.		5000.	5023.75	5136.75	0.085	5136.75	0.15	5578.
X41.0	119.81	5578.						
GR132.	4826.	128.	4849.	124.	4880.	120.	4921.	116.
GR112.	4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58
GR108.595002.7	103.86	5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.
NC		0.3	0.5					
NH5.0	0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5596.75
NH5887.8		5000.	5023.75	5153.				0.2
X14448.								
X310.								
X41.0	116.14	5153.						
NH5.0	0.085	5000.	80.2	80.2				0.03
NH5887.8		5000.	5023.75	5153.				111.08
X14449.25.		5000.	5023.75	5153.				
X43.0	104.86	5002.71	109.25	5023.75	116.14	5153.		
BT-25.	4826.	132.	4849.	128.	4880.	124.	4880.	124.
BT	4921.	120.	4946.	116.	4974.	112.	4974.	112.
BT	4984.	112.72	5000.	110.39	5001.	110.68	5001.7	110.09
BT	5002.	110.77	108.58	5002.7	110.79	108.59	5005.7	110.85
BT	5010.6	110.96	108.84	5011.3	110.69	108.86	5012.	111.06
BT	5023.	111.3	109.25	5023.5	111.31	109.26	5023.75	111.08
BT	5032.85	111.38	111.38	5065.75	112.	5136.75	116.	116.
BT	5596.75	120.	5766.75	124.	5828.75	128.	5828.75	128.
BT	5887.8	132.						
GR132.	4826.	128.	4849.	124.	4880.	120.	4921.	116.
GR112.	4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58
GR108.595002.7	103.86	5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.

10866 →

10867 →

10906 →

1173 →

11673 →

11674 →

NH5.0	0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5596.75	0.2
NH5887.8				11.6	11.6	11.6			
X144531.						1.0			
X2									
NH5.0	0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5596.75	0.2
NH5887.8									
X144532.25.		5000.	5023.75	1.0	1.0	1.0			
X310.							110.39	111.08	
X41.0	116.14	5153.							
GR132.	4826.	128.	4849.	124.	4880.	120.	4921.	116.	4946.
GR112.	4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58	5002.
GR108.595	5002.7	103.86	5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.	5065.75
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.	5887.8
NH5.0	0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5596.75	0.2

119067 → NH5887.8 X144531. NCO.1 0.1 0.05 0.1 0.3 NH7.0 0.2 5035. 0.09 5376.5 0.085 5700. 0.053 5783. 0.085 NH5848. 0.15 5908. 0.2 6046.

14980 → X142545.29. 5700. 5783. X41.0 121.29 5376.5 GR150. 5000. 148. 5005. 144. 5025. 143. 5035. 140. 5052. GR136. 5070. 132. 5090. 128. 5112. 124. 5232. 121. 5392. GR121. 5477. 121. 5645. 120. 5700. 118. 5718. 116. 5726. GR112. 5734. 109. 5752. 109. 5770. 112. 5775. 114. 5778. GR116. 5783. 120. 5848. 121. 5873. 124. 5908. 126. 5920. GR140. 5945. 144. 5995. 150. 6013. 169. 6046. NH6.0 0.2 5045. 0.085 5081. 0.053 5159. 0.085 5527. 0.13 NH5746. 0.2 5779. X114590.33. 5081. 5159. X41.0 127. 5527. GR155. 5000. 148. 5015. 140. 5025. 124. 5045. 122. 5050. GR121. 5081. 118. 5083. 115. 5086. 113.5 5090. 113.8 5100. GR114. 5110. 115. 5118. 117. 5122. 117. 5131. 122.4 5152. GR124. 5159. 119. 5199. 119. 5244. 120. 5264. 124. 5284. GR125. 5294. 127. 5424. 127. 5609. 128. 5644. 132. 5679. GR134. 5704. 136. 5714. 140. 5719. 152. 5734. 152. 5746. GR151. 5756. 156. 5764. 168. 5779.

15130 → X114590.33. 5081. 5159. X41.0 127. 5527. GR155. 5000. 148. 5015. 140. 5025. 124. 5045. 122. 5050. GR121. 5081. 118. 5083. 115. 5086. 113.5 5090. 113.8 5100. GR114. 5110. 115. 5118. 117. 5122. 117. 5131. 122.4 5152. GR124. 5159. 119. 5199. 119. 5244. 120. 5264. 124. 5284. GR125. 5294. 127. 5424. 127. 5609. 128. 5644. 132. 5679. GR134. 5704. 136. 5714. 140. 5719. 152. 5734. 152. 5746. GR151. 5756. 156. 5764. 168. 5779.

EJ
T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE:12/26/85 50-YEAR EVENT
J1 3.0 0.00484 80.0
J22.0 -1.
T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE:12/26/85 100-YEAR EVENT
J1 4.0 0.00484 80.0
J23.0 -1.
T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE:12/26/85 500-YEAR EVENT
J1 5.0 0.00484 80.0
J215. -1.

T3	MULBERRY CREEK, CALDWELL CO., NC DATE: 1/25/86						20YEAR EV		
J1-10.	6.0			0.00484				87	
J2-1.0		-1.							
J338.	39.	1.	51.	55.	26.	56.	13.	14.	15.
J343.	46.	47.	0.	38.	39.	1.	42.	53.	21.
J322.	54.	4.	27.	28.	36.				
J5-10.		-10.							
J61.0									
QT5.0	4529.	8735.	12846.	27820.	6010.				
NC			0.3	0.5					
NH6.0	1.0	4596.	0.15	4856.	0.098	5000.	0.063	5042.	0.098
NH5062.	0.15	5162.							
X1140.	22.	5000.	5042.	151.	151.	151.		0.00	
X310.							85.01	86.	
X42.0	90.21	4596.	87.03	4856.					
GR112.	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.
GR92.	4410.	88.	4820.	85.01	5000.00	80.32	5002.	79.56	5010.
GR79.33	5020.	78.41	5030.	79.18	5040.	81.45	5041.	83.91	5042.
GR86.	5062.	84.	5092.	80.	5102.	80.	5132.	84.	5142.
GR88.	5150.	92.	5162.						
NH6.0	1.0	4596.	0.15	4856.	0.098	5000.	0.063	5042.	0.098
NH5062.	0.15	5162.							
X1141.	26.	5000.	5042.	1.	1.	1.			
X310.							85.01	86.0	
X42.0	90.21	4596.	87.03	4856.					
BT-26.	4104.5	112.	112.	4114.5	108.	108.	4124.5	104.	104.
BT	4144.5	100.	100.	4332.	96.	96.	4410.	92.	92.
BT	4820.	88.	88.	5000.	85.01	85.01	5001.	85.01	80.32
BT	5001.01	85.79	80.32	5002.	85.76	80.32	5010.	85.55	82.88
BT	5020.	85.27	82.56	5030.	84.99	82.24	5040.	84.73	81.92
BT	5040.01	84.73	79.18	5041.	84.7	79.18	5041.01	83.91	79.18
BT	5042.	83.91	83.91	5062.	86.	86.	5092.	84.	84.
BT	5102.	80.	80.	5132.	80.	80.	5142.	84.	84.
BT	5150.	88.	88.	5162.	92.	92.			
GR112.	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.
GR92.	4410.	88.	4820.	85.01	5000.	80.32	5001.	80.32	5001.01
GR80.32	5002.	79.56	5010.	79.33	5020.	78.41	5030.	79.18	5040.
GR79.18	5040.01	79.18	5041.	79.18	5041.01	83.91	5042.	86.	5062.
GR84.	5092.	80.	5102.	80.	5132.	84.	5142.	88.	5150.
GR92.	5162.								
NH6.0	1.0	4596.	0.15	4856.	0.098	5000.	0.063	5042.	0.098
NH5062.	0.17	5162.							
X1159.			18.	18.	18.				
X2					1.				
NH6.0	1.0	4596.	0.15	4856.	0.098	5000.	0.063	5042.	0.098
NH5062.	0.17	5162.							
X1160.	22.	5000.00	5042.	1.	1.	1.			
X310.							85.01	86.	
X42.0	90.21	4596.	87.03	4856.					
GR112.	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.
GR92.	4410.	88.	4820.	85.01	5000.00	80.32	5002.	79.56	5010.
GR79.33	5020.	78.41	5030.	79.18	5040.	81.45	5041.	83.91	5042.
GR86.	5062.	84.	5092.	80.	5102.	80.	5132.	84.	5142.
GR88.	5150.	92.	5162.						
NH6.0	1.00	4596.	0.15	4856.	0.108	5000.	0.063	5042.	0.108
NH5062.	0.17	5162.							
X1197.			37.	37.	37.			0.19	
X42.	90.4	4596.	87.22	4856.					
NC0.1	0.1	0.05	0.1	0.3					
NH6.0	1.0	5595.	0.15	6165.	0.108	6561.	0.063	6646.	0.108
NH6826.	0.17	7007.							
X12210.	57.	6561.	6646.	2013.	2013.	2013.			

3782.2

NH

NH3.0	0.17	5000.	0.063	5125.00	0.17	5359.	0.113
X14539.8			145.	145.			
MCO.1	0.1	0.05	0.1	0.3			
NH7.0	1.0	5086.	0.16	5284.	0.113	5528.	0.063
NH5770.	0.17	5976.	1.0	6325.			5637.
X16320.	37.	5528.	5637.	1780.2	1780.2		
X41.0	112.67	5976.					
GR140.	5000.	125.	5015.	120.	5020.	116.	5030.
GR104.	5056.	100.	5070.	104.	5086.	105.	5126.
GR104.	5284.	101.	5352.	105.	5487.	100.	5528.
GR93.	5540.01	91.7	5543.	92.	5553.	92.7	5563.
GR73.	5583.	92.8	5593.	92.6	5603.	93.	5608.
G.104.	5689.	108.	5770.	112.	5892.	112.	5944.
GR119.	6154.	120.	6176.	124.	6200.	128.	6232.
GR136.	6315.	140.	6325.				
QT5.0	4368.	8455.	12457.	27122.	5805.		
NH6.0	1.0	5118.5	0.113	5130.	0.061	5210.	0.113
NH6338.	51.0	6573.					
X18430.	35.	5130.	5210.	2110.	2110.		
X42.0	107.21	5118.5	120.41	6338.5			
GR140.	5000.	137.	5010.	120.	5040.	116.	5055.
GR108.	5085.	106.	5095.	107.8	5130.	103.	5140.
GR101.	5145.	100.7	5150.	102.	5160.	101.3	5170.
GR100.5	5190.	101.	5192.	102.9	5195.	104.	5200.
GR107.	5260.	108.	5475.	108.	5570.	112.	5795.
GR116.	5930.	120.	6045.	124.	6150.	120.	6360.
GR134.	6405.	134.	6420.	136.	6495.	139.	6535.
NH7.0	1.0	4594.5	0.20	4932.	0.113	5000.01	0.061
NH5272.	0.17	5656.6	1.0	5825.4			
X110692.	32.	5000.01	5044.	2241.6	2241.6		
X42.0	117.87	4932.	115.79	5272.			
GR140.	4382.2	136.	4482.	132.	4594.5	128.	4707.
GR120.	4920.	116.	4945.	112.	4985.	108.58	5000.01
GR105.795002.	01	104.53	5002.02	103.49	5019.99	103.49	5020.
GR103.495022.		103.49	5022.01	103.90	5029.	103.93	5030.
GR104.855040.		105.79	5042.59	108.05	5044.	111.43	5050.
GR116.	5255.	120.	5545.	124.	5637.8	128.	5656.6
GR136.	5800.4	140.	5825.4				
NC		0.3	0.5				
NH7.0	1.0	4594.5	0.20	4932.	0.113	5000.01	0.060
NH5272.	0.17	5656.6	1.0	5825.4			
X110853.				161.4	161.4		
X310.						109.65	109.76
X42.0	118.08	4594.5	116.	5272.			
NH7.0	1.0	4547.	0.20	4945.			
NH5282.	0.17	5656.6	1.0	5825.4			
X110854.	38.	5009.	5045.				
X42.0	133.69	4547.	116.37	5282.			
BT-35.	4382.2	140.	140.	4482.	136.	4594.5	132.
BT	4707.	128.	128.	4830.	124.	4920.	120.
BT	4945.	116.	116.	4985.	112.	4990.	111.45
BT	5000.	109.9	109.9	5000.01	109.9	108.58	108.58
BT	5001.01	110.16	107.96	5002.	110.16	107.98	109.59
BT	5020.	109.59	103.49	5021.	109.57	103.49	5022.
BT	5022.01	109.6	107.27	5030.	109.84	107.55	5040.
BT	5042.6	110.23	108.05	5044.	110.27	108.05	5044.01
BT	5044.99	109.86	109.04	5045.	109.86	109.85	5050.
BT	5075.3	112.	112.	5255.	116.	116.	111.43
BT	5637.8	124.	124.	5656.6	128.	128.	132.
BT	5800.4	136.	136.	5825.4	140.	140.	
GR140.	4382.2	136.	4482.	132.	4594.5	128.	4707.
GR120.	4920.	116.	4945.	112.	4985.	111.45	4990.

GR108.585000.01	108.58	5001.	107.98	5001.01	107.98	5002.	108.05	5002.01	
GR104.535002.02	103.49	5019.99	103.49	5020.	103.49	5021.	103.49	5022.	
GR103.495022.01	103.93	5030.	104.85	5040.	105.79	5042.59	108.05	5042.6	
GR108.055044.	109.04	5044.01	109.04	5044.99	109.86	5045.	111.43	5050.	
GR112. 5075.3	116.	5255.	120.	5545.	124.	5637.8	128.	5656.6	
GR132. 5769.1	136.	5800.4	140.	5825.4					
NH7.0	1.0	4547.	0.20	4945.	0.113	5000.	0.060	5045.	0.113
NH5282.	0.17	5656.6	1.0	5825.4					
X110866.			12.	12.	12.				
X2									
X42.0	133.69	4547.	116.37	5282.					
NH7.0	1.0	4547.	0.20	4945.	0.113	5000.01	0.060	5050.	0.113
NH5282.	0.17	5656.6	1.0	5825.4					
X110867.32.	5000.01	5050.	1.	1.	1.				
X310.						109.65	109.76		
X42.0	133.69	4547.	116.37	5282.					
GR140.	4382.2	136.	4482.	132.	4594.5	128.	4707.	124.	4830.
GR120.	4920.	116.	4945.	112.	4985.	108.58	5000.01	107.98	5001.01
GR105.795002.01	104.53	5002.02	103.49	5019.99	103.49	5020.	103.49	5021.	
GR103.495022.	103.49	5022.01	103.90	5029.	103.93	5030.	104.8	5039.	
GR104.855040.	105.79	5042.59	108.05	5044.	111.43	5050.	112.	5075.3	
GR116.	5255.	120.	5545.	124.	5637.8	128.	5656.6	132.	5769.1
GR136.	5800.4	140.	5825.4						
NH7.0	1.0	4547.	0.20	4945.	0.113	5000.01	0.060	5050.	0.113
NH5282.	0.17	5656.6	1.0	5825.4					
X110907.			39.6	39.6	39.6		.25		
X42.0	133.94	4547.	116.62	5282.					
NCO.1	0.1	0.05	0.1	0.3					
NH5.0	0.113	5000.	0.062	5023.75	0.113	5136.75	0.17	5578.	1.0
NH5887.8									
X111793.25.	5000.	5023.75	933.	933.	933.			-0.03	
X41.0	119.81	5578.							
GR132.	4826.	128.	4849.	124.	4880.	120.	4921.	116.	4946.
GR113.	4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58	5002.
GR106.	5003.	103.86	5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.	5065.75
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.	5887.8
NC			0.3	0.5					
NH5.0	0.113	5000.	0.062	5023.75	0.113	5153.	0.17	5596.75	1.0
NH5887.8									
X111873.			80.2	80.2	80.2			0.03	
X310.						110.39	111.08		
X41.0	116.14	5153.							
NH5.0	0.113	5000.	0.062	5023.75	0.113	5153.	0.17	5596.75	1.0
NH5887.8									
X111874.25.	5000.	5023.75	1.0	1.0	1.0				
X41.0	116.14	5153.							
BT-25.	4826.	132.	4849.	128.	4880.	124.	4921.	116.	4946.
BT	4921.	120.	4946.	116.	4974.	113.	4974.	113.	113.
BT	4984.	112.72	4984.	110.39	5000.	110.39	5001.	110.68	110.09
BT	5002.	110.77	5002.7	110.79	5002.7	110.79	5005.7	110.85	108.68
BT	5010.6	110.96	5010.6	110.69	5010.6	110.69	5012.	111.06	108.88
BT	5023.	111.3	5023.5	111.31	5023.5	111.31	5023.75	111.08	111.08
BT	5032.85	111.38	5032.85	111.38	5032.85	111.38	5032.85	112.	116.
BT	5596.75	120.	5596.75	124.	5766.75	124.	5828.75	128.	128.
BT	5887.8	132.	5887.8	132.	5887.8	132.	5887.8	132.	5887.8
GR132.	4826.	128.	4849.	124.	4880.	120.	4921.	116.	4946.
GR113.	4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58	5002.
GR108.595002.7	103.86	5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.	
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.	5065.75
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.	5887.8
NH5.0	0.113	5000.	0.062	5023.75	0.113	5153.	0.17	5596.75	1.0

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0.00484

J21.0		-1.							
J338.	39.	1.	51.	55.	26.	56.	13.	14.	15.
J343.	46.	47.	0.	38.	39.	1.	42.	53.	21.
J322.	54.	4.	27.	28.	36.				
J5-10.	-10.				20	7	2.5		
J61.0									
QT7.0	4529.	8735.	12846.	27820.	6010.	3915.	2572.		
NC			0.3	0.5					
NH6.0	0.2	4596.	0.13	4856.	0.08	5000.	0.055	5042.	0.08
NH5062.	0.15	5162.							
X1140.	22.	5000.	5042.	151.	151.	151.		0.00	
X310.							85.01	86.	
X42.0	90.21	4596.	87.03	4856.					
GR112.	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.
GR92.	4410.	88.	4820.	85.01	5000.00	80.32	5002.	79.56	5010.
GR79.33	5020.	78.41	5030.	79.18	5040.	81.45	5041.	83.91	5042.
GR86.	5062.	84.	5092.	80.	5102.	80.	5132.	84.	5142.
GR88.	5150.	92.	5162.						
NH6.0	0.2	4596.	0.13	4856.	0.08	5000.	0.055	5042.	0.08
NH5062.	0.15	5162.							
X1141.	26.	5000.	5042.	1.	1.	1.			
X310.							85.01	86.0	
X42.0	90.21	4596.	87.03	4856.					
BT-26.	4104.5	112.	112.	4114.5	108.	108.	4124.5	104.	104.
BT	4144.5	100.	100.	4332.	96.	96.	4410.	92.	92.
BT	4820.	88.	88.	5000.	85.01	85.01	5001.	85.01	80.32
BT	5001.01	85.79	80.32	5002.	85.76	80.32	5010.	85.55	82.88
BT	5020.	85.27	82.56	5030.	84.99	82.24	5040.	84.73	81.92
BT	5040.01	84.73	79.18	5041.	84.7	79.18	5041.01	83.91	79.18
BT	5042.	83.91	83.91	5062.	86.	86.	5092.	84.	84.
BT	5102.	80.	80.	5132.	80.	80.	5142.	84.	84.
BT	5150.	88.	88.	5162.	92.	92.			
GR112.	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.
GR92.	4410.	88.	4820.	85.01	5000.	80.32	5001.	80.32	5001.01
GR80.32	5002.	79.56	5010.	79.33	5020.	78.41	5030.	79.18	5040.
GR79.18	5040.01	79.18	5041.	79.18	5041.01	83.91	5042.	86.	5062.
GR84.	5092.	80.	5102.	80.	5132.	84.	5142.	88.	5150.
GR92.	5162.								
NH6.0	0.2	4596.	0.13	4856.	0.08	5000.	0.055	5042.	0.08
NH5062.	0.15	5162.							
X1159.			18.	18.	18.				
X2					1.				
NH6.0	0.2	4596.	0.13	4856.	0.08	5000.	0.055	5042.	0.08
NH5062.	0.15	5162.							
X1160.	22.	5000.00	5042.	1.	1.	1.			
X310.							85.01	86.	
X42.0	90.21	4596.	87.03	4856.					
GR112.	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.
GR92.	4410.	88.	4820.	85.01	5000.00	80.32	5002.	79.56	5010.
GR79.33	5020.	78.41	5030.	79.18	5040.	81.45	5041.	83.91	5042.
GR86.	5062.	84.	5092.	80.	5102.	80.	5132.	84.	5142.
GR88.	5150.	92.	5162.						
NH6.0	0.2	4596.	0.13	4856.	0.08	5000.	0.055	5042.	0.08
NH5062.	0.15	5162.							
X1197.				37.	37.	37.		0.19	
NH6.0	0.1	0.05	0.1	0.3					
NH6.0	0.2	5595.	0.13	6165.	0.08	6561.	0.055	6624.	0.08
NH6826.	0.15	7007.							
X12210.	57.	6561.	6646.	2013.	2013.	2013.			
X310.							94.	94.	

X42.0
90.4
4596.
87.22
4856.

GR120	5000	5050	108	5080	112	5190	1	5190
GR112	5265	5300	108	5335	107	5455	105	5455
GR104	5500	5535	100	5565	96	5585	95	5585
GR96	5595	5610	100	5635	100	5745	99	5745
GR98	5825	5915	97	6000	96	6100	94	6100
GR92	6135	6140	86.6	6150	88	6165	92	6165
GR93	6190	6265	94	6390	94	6525	92	6525
GR92	6561	6566	87	6567	86	6581	86	6581
GR86.5	6591	6601	87	6607	88	6631	89	6631
GR92	6846	6866	94	6896	97	6826	98	6826
GR98	6864	6884	100	6904	104	6922	106	6922
GR108	6987	7007	112	7007	104	6922	106	6922
QH7.0	4496	8677	12766	2552	3887	5967	5140	5140
MH6.0	0.2	4698	0.13	4888	0.08	5000	0.055	5130
MH5323	0.15	5359						
X13782.224	5000	5160.00	1572.2	1572.2	1572.2	1572.2	-1.09	
X43.0	93.19	6698	93.19	4888	1087	5323		
GR107	4600	106.3	4840	4860	103	4840	98.00	5000.00
GR97.00	5010	5025	93.80	5045	90.76	5077	90.13	5090
GR89.81	5100	5111.5	89.97	5111.51	89.97	5111.99	89.97	5112
GR89.97	5113	5113.01	89.97	5113.49	89.97	5113.5	90.76	5119
GR96.7	5140	5150	99	5219	111	5359		
MC		0.3	0.5					
MH6.0	0.2	4698	0.13	4888	0.08	5000	0.055	5150
MH5323	0.15	5359						
X14365.2			583	583	583		1.09	
X310							110	110
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14366.239								
BT-39	4660	110	4800	110	110.0	4913	109.84	104
BT	5000	5125.00	1			5009.99	112.51	100.00
BT	109.65	106.6	5000.01	112.51	100.60	5045	112.51	106.13
BT	5010	112.51	5025	112.51	106.2	5051.99	112.51	103.61
BT	5051.5	112.51	106.11	5051.51	112.51	5077	112.51	103.61
BT	5052	112.51	93.79	5053	112.51	5077	112.51	106.11
BT	5053.49	112.51	103.61	5053.5	112.51	5111.5	112.51	106.1
BT	5090	112.51	106.1	5100	112.51	5112	112.51	106.1
BT	5111.51	112.51	103.60	5111.99	112.51	5113.49	112.51	103.6
BT	5113	112.51	106.1	5119	112.51	5125	112.51	106.15
BT	5143	112.51	106.23	5143.01	112.51	5150	112.51	100.00
BT	5153.7	112.51	100.60	5153.71	109.76	5213	111.79	104.00
BT	5219	112	105.00	5323	110.51	5359	110.0	110
GR110	4660	110.0	4800.0	4913	100.6	5000	100.6	5000.01
GR100	5009.99	100	5010	5025	93.80	5045	93.79	5051.5
GR93.79	5051.51	93.79	5051.99	5052	93.79	5053	93.79	5053.01
GR93.79	5053.49	93.79	5053.5	5077	90.15	5090	89.81	5100
GR89.97	5111.5	89.97	5111.51	5111.99	89.97	5112	89.97	5113
GR89.97	5113.01	89.97	5113.49	5113.5	90.76	5119	97.18	5125
GR96.7	5143	96.700	5143.01	5150	100.60	5153.7	100.6	5153.71
GR104	5213	105.00	5219	108.00	5323	5359.0		
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14393.8								
X2	0.15		27.6	27.6	27.6			
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14394.818								
X310							110	110
X44	110	4660						
GR93.79	5051.51	93.79	5051.99	5052	93.79	5053	93.79	5053.01
GR93.79	5053.49	93.79	5053.5	5077	90.15	5090	89.81	5100
GR89.97	5111.5	89.97	5111.51	5111.99	89.97	5112	89.97	5113
GR89.97	5113.01	89.97	5113.49	5113.5	90.76	5119	97.18	5125
GR96.7	5143	96.700	5143.01	5150	100.60	5153.7	100.6	5153.71
GR104	5213	105.00	5219	108.00	5323	5359.0		
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14393.8								
X2	0.15		27.6	27.6	27.6			
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14394.818								
X310							110	110
X44	110	4660						
GR93.79	5051.51	93.79	5051.99	5052	93.79	5053	93.79	5053.01
GR93.79	5053.49	93.79	5053.5	5077	90.15	5090	89.81	5100
GR89.97	5111.5	89.97	5111.51	5111.99	89.97	5112	89.97	5113
GR89.97	5113.01	89.97	5113.49	5113.5	90.76	5119	97.18	5125
GR96.7	5143	96.700	5143.01	5150	100.60	5153.7	100.6	5153.71
GR104	5213	105.00	5219	108.00	5323	5359.0		
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14393.8								
X2	0.15		27.6	27.6	27.6			
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14394.818								
X310							110	110
X44	110	4660						
GR93.79	5051.51	93.79	5051.99	5052	93.79	5053	93.79	5053.01
GR93.79	5053.49	93.79	5053.5	5077	90.15	5090	89.81	5100
GR89.97	5111.5	89.97	5111.51	5111.99	89.97	5112	89.97	5113
GR89.97	5113.01	89.97	5113.49	5113.5	90.76	5119	97.18	5125
GR96.7	5143	96.700	5143.01	5150	100.60	5153.7	100.6	5153.71
GR104	5213	105.00	5219	108.00	5323	5359.0		
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14393.8								
X2	0.15		27.6	27.6	27.6			
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14394.818								
X310							110	110
X44	110	4660						
GR93.79	5051.51	93.79	5051.99	5052	93.79	5053	93.79	5053.01
GR93.79	5053.49	93.79	5053.5	5077	90.15	5090	89.81	5100
GR89.97	5111.5	89.97	5111.51	5111.99	89.97	5112	89.97	5113
GR89.97	5113.01	89.97	5113.49	5113.5	90.76	5119	97.18	5125
GR96.7	5143	96.700	5143.01	5150	100.60	5153.7	100.6	5153.71
GR104	5213	105.00	5219	108.00	5323	5359.0		
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14393.8								
X2	0.15		27.6	27.6	27.6			
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14394.818								
X310							110	110
X44	110	4660						
GR93.79	5051.51	93.79	5051.99	5052	93.79	5053	93.79	5053.01
GR93.79	5053.49	93.79	5053.5	5077	90.15	5090	89.81	5100
GR89.97	5111.5	89.97	5111.51	5111.99	89.97	5112	89.97	5113
GR89.97	5113.01	89.97	5113.49	5113.5	90.76	5119	97.18	5125
GR96.7	5143	96.700	5143.01	5150	100.60	5153.7	100.6	5153.71
GR104	5213	105.00	5219	108.00	5323	5359.0		
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14393.8								
X2	0.15		27.6	27.6	27.6			
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14394.818								
X310							110	110
X44	110	4660						
GR93.79	5051.51	93.79	5051.99	5052	93.79	5053	93.79	5053.01
GR93.79	5053.49	93.79	5053.5	5077	90.15	5090	89.81	5100
GR89.97	5111.5	89.97	5111.51	5111.99	89.97	5112	89.97	5113
GR89.97	5113.01	89.97	5113.49	5113.5	90.76	5119	97.18	5125
GR96.7	5143	96.700	5143.01	5150	100.60	5153.7	100.6	5153.71
GR104	5213	105.00	5219	108.00	5323	5359.0		
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14393.8								
X2	0.15		27.6	27.6	27.6			
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14394.818								
X310							110	110
X44	110	4660						
GR93.79	5051.51	93.79	5051.99	5052	93.79	5053	93.79	5053.01
GR93.79	5053.49	93.79	5053.5	5077	90.15	5090	89.81	5100
GR89.97	5111.5	89.97	5111.51	5111.99	89.97	5112	89.97	5113
GR89.97	5113.01	89.97	5113.49	5113.5	90.76	5119	97.18	5125
GR96.7	5143	96.700	5143.01	5150	100.60	5153.7	100.6	5153.71
GR104	5213	105.00	5219	108.00	5323	5359.0		
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14393.8								
X2	0.15		27.6	27.6	27.6			
MH3.0	0.13	5000	0.055	5125.00	0.15	5359		
X14394.818								
X310							110	110
X44	110	4660						
GR93.79	5051.51	93.79	5051.99	5052	93.79	5053	93.79	5053.01
GR93.79	5053.49	93.79	5053.5	5077	90.15	5090	89.81	5100
GR89.97	5111.5	89.97	5111.51	5111.99	89.97	5112	89.97	5113
GR89.97	5113.01	89.97	5113.49	5113.5	90.76	5119	97.18	5125
GR96.7	5143	96.700	5143.01	5150	100.60	5153.7	100.6	5153.71
GR104	5213	105.00	5219	108.00	5323	5359.0		
MH3.0	0.13	5000	0.055	5125.00	0.15	53		

GR108.585000.01	108.58	5000.	107.98	5001.01	107.98	5002.	107.99	5002.01
GR104.535002.02	133.49	5019.49	103.49	5020.	103.49	5021.	103.49	5022.
GR103.495022.01	103.93	5030	104.85	5040.	105.79	5042.59	108.05	5042.6
GR108.055044.	109.04	5044.01	109.04	5044.99	109.86	5045.	111.43	5050.
GR112. 5075.3	116.	5255.	120.	5545.	124.	5637.8	128.	5656.6
GR132. 5769.1	136.	5800.4	140.	5825.4				
NH7.0 0.2	4547.	0.18	4945.	0.085	5000.	0.05	5045.	0.085
NH5282. 0.15	5656.6	0.2	5825.4					
X110866.			12.	12.	12.			
X2					1.			
NH7.0 0.2	4547.	0.18	4945.	0.085	5000.01	0.05	5050.	0.085
NH5282. 0.15	5656.6	0.2	5825.4					
X110867.32.	5000.01	5050.	1.	1.	1.			
X310.						109.65	109.76	
X42.0 133.69	4547.	116.37	5282.					
GR140. 4382.2	136.	4482.	132.	4594.5	128.	4707.	124.	4830.
GR120. 4920.	116.	4945.	112.	4985.	108.58	5000.01	107.98	5001.01
GR105.795002.01	104.53	5002.02	103.49	5019.99	103.49	5020.	103.49	5021.
GR103.495022.	103.49	5022.01	103.90	5029.	103.93	5030.	104.8	5039.
GR104.855040.	105.79	5042.59	108.05	5044.	111.43	5050.	112.	5075.3
GR116. 5255.	120.	5545.	124.	5637.8	128.	5656.6	132.	5769.1
GR136. 5800.4	140.	5825.4						
NH7.0 0.2	4547.	0.18	4945.	0.085	5000.01	0.05	5050.	0.085
NH5282. 0.15	5656.6	0.2	5825.4					
X110907.			39.6	39.6			.25	
NC0.1 0.1	0.05	0.1	0.3					
NH5.0 0.085	5000.	0.053	5023.75	0.085	5136.75	0.15	5578.	0.2
NH5887.8								
X111793.25.	5000.	5023.75	933.	933.	933.		-0.03	
X41.0 119.81	5578.							
GR132. 4826.	128.	4849.	124.	4880.	120.	4921.	116.	4946.
GR112. 4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58	5002.
GR108.595002.7	103.86	5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.
GR107. 5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.	5065.75
GR116. 5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.	5887.8
NC		0.3	0.5					
NH5.0 0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5596.75	0.2
NH5887.8								
X111873.			80.2	80.2	80.2		0.03	
X310.						110.39	111.08	
X41.0 116.14	5153.							
NH5.0 0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5596.75	0.2
NH5887.8								
X111874.25.	5000.	5023.75	1.0	1.0	1.0			
X43.0 104.85	5002.71	109.25	5023.75	116.14	5153.			
BT-25. 4826.	132.	132.	4849.	128.	128.	4880.	124.	124.
BT	4921.	120.	4946.	116.	116.	4974.	112.	112.
BT	4984.	112.72	112.72	5000.	110.39	110.39	5001.	110.68
BT	5002.	110.77	108.58	5002.7	110.79	108.59	5005.7	110.85
BT	5010.6	110.96	108.34	5011.3	110.69	108.86	5012.	111.06
BT	5023.	111.3	109.25	5023.5	111.31	109.26	5023.75	111.08
BT	5032.85	111.38	111.38	5065.75	112.	112.	5136.75	116.
BT	5596.75	120.	120.	5766.75	124.	124.	5828.75	128.
BT	5887.8	132.	132.					
GR132. 4826.	128.	4849.	124.	4880.	120.	4921.	116.	4946.
GR112. 4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58	5002.
GR108.595002.7	103.86	5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.
GR107. 5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.	5065.75
GR116. 5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.	5887.8
NH5.0 0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5596.75	0.2
NH5887.8								
X111886.			11.6	11.6	11.6			

X42.0
133.69 4547.
116.37 5282.

X42.0 133.94 4547. 116.62 5282.

3
106.5003.

113. 113.

X41.0 116.14 5153.

X2							1.0		
NH5.0	0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5175	0.2
NH5887.8									
X111887.25.		5000.	5023.75	1.0	1.0	1.0			
X310.							110.39	111.08	
X41.0	116.14	5153.							
GR132.	4826.	128.	4849.	124.	4880.	120.	4921.	116.	4946.
GR112.3	4974.	112.72	4984.	110.39	5000.	110.09	5001.	108.58	5002.
GR108.50	5002.7	103.86	5005.7	105.46	5010.6	105.69	5011.3	105.77	5012.
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5032.85	112.	5065.75
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	5828.75	132.	5887.8
NH5.0	0.085	5000.	0.053	5023.75	0.085	5153.	0.15	5596.75	0.2
NH5887.8									
X111906.				19.3	19.3	19.3		0.04	
NCO.1	0.1	0.05	0.1	0.3					
NH7.0	0.2	5035.	0.09	5376.5	0.085	5700.	0.053	5783.	0.085
NH5848.	0.15	5908.	0.2	6046.					
X114980.29.		5700.	5783.	3074.	3074.	3074.			
X41.0	121.29	5376.5							
GR150.	5000.	148.	5005.	144.	5025.	143.	5035.	140.	5052.
GR136.	5070.	132.	5090.	128.	5112.	124.	5232.	121.	5392.
GR121.	5477.	121.	5645.	120.	5700.	118.	5718.	116.	5726.
GR112.	5734.	109.	5752.	109.	5770.	112.	5775.	114.	5778.
GR116.	5783.	120.	5848.	121.	5873.	124.	5908.	126.	5920.
GR140.	5945.	144.	5995.	150.	6013.	169.	6046.		
NH6.0	0.2	5045.	0.085	5081.	0.053	5159.	0.085	5527.	0.13
NH5746.	0.2	5779.							
X115130.33.		5081.	5159.	150.	150.	150.			
X41.0	127	5527							
GR155.	5000.	148.	5015.	140.	5025.	124.	5045.	122.	5050.
GR121.	5081.	118.	5083.	115.	5086.	113.5	5090.	113.8	5100.
GR114.	5110.	115.	5118.	117.	5122.	117.	5131.	122.4	5152.
GR124.	5159.	119.	5199.	119.	5244.	120.	5264.	124.	5284.
GR125.	5294.	127.	5424.	127.	5609.	128.	5644.	132.	5679.
GR134.	5704.	136.	5714.	140.	5719.	152.	5734.	152.	5746.
GR151.	5756.	156.	5764.	168.	5779.				

106.5003

X 410 116.18 5153.

EJ
T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE: 12/26/85 50-YEAR EVENT
J1 3.0 0.00484 80.0 → 81.0
J22.0 -1.
T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE: 12/26/85 100-YEAR EVENT
J1 4.0 0.00484 80.0 → 81.0
J23.0 -1.
T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE: 12/26/85 500-YEAR EVENT
J1 5.0 0.00484 80.0 → 84.0
J215. -1.

ADD T-J Cards for 20, 70 2.5 yr events
81.0 80.0 80.0

ER

THIS RUN EXECUTED 01-25-86 14:05:32

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

C
 T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 MULBERRY CREEK, CALDWELL CO., NC DATE: 1/25/86 10-YEAR EVENT

J1	ICHECK	INH	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	2.	0.	0.	.004840	.00	.0	0.	81.000	.000
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRAGE
	1.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	1.000	51.000	55.000	26.000	56.000	13.000	14.000	15.000
	43.000	46.000	47.000	.000	38.000	39.000	1.000	42.000	53.000	21.000
	22.000	54.000	4.000	27.000	28.000	36.000	.000	.000	.000	.000
J5	LPRNT	NUMSEC	*****REQUESTED SECTION NUMBERS*****							
	-10.000	-10.000	.000	.000	.000	.000	.000	.000	.000	.000
J6	IHLQ	ICOPY								
	1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

QT	5 7.000	4529.000	8735.000	12846.000	27820.000	6010.000	3915.000	2572.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	6.000	.200	4596.000	.130	4856.000	.080	5000.000	.035	5042.000	.080
IH	5062.000	.150	5162.000	.000	.000	.000	.000	.000	.000	.000

ADD 1000 FEET TO OBTAIN TRUE ELEVATION

1ST. BRIDGE X-SECTION FOR BRIDGE # 1.

X1	140.000	22.000	5000.000	5042.000	151.000	151.000	151.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	85.010	86.000	.000
X4	2.000	90.210	4596.000	87.030	4856.000	.000	.000	.000	.000	.000
GR	112.000	4104.500	108.000	4114.500	104.000	4124.500	100.000	4144.500	96.000	4332.000
GR	92.000	4410.000	88.000	4820.000	85.010	5000.000	80.320	5002.000	79.560	5010.000
GR	79.330	5020.000	78.410	5030.000	79.180	5040.000	81.450	5041.000	83.910	5042.000
GR	86.000	5062.000	84.000	5092.000	80.000	5102.000	80.000	5132.000	84.000	5142.000

NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000	.000	.000	.000
NH	6.000	.200	5595.000	.130	6165.000	.080	.080	6561.000	.055	6646.000	.080	.080	.080
NH	6826.000	.150	7007.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

X-SECTION MA

X1	2210.000	57.000	6561.000	6646.000	2013.000	2013.000	2013.000	2013.000	.000	.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	94.000	94.000	.000	.000	.000
GR	120.000	5000.000	112.000	5050.000	108.000	5080.000	5080.000	112.000	5100.000	113.000	5190.000	5190.000	5190.000
GR	112.000	5265.000	110.000	5300.000	108.000	5335.000	5335.000	107.000	5395.000	105.000	5455.000	5455.000	5455.000
GR	104.000	5500.000	102.000	5535.000	100.000	5565.000	5565.000	96.000	5575.000	95.000	5585.000	5585.000	5585.000
GR	96.000	5595.000	100.000	5610.000	100.000	5635.000	5635.000	100.000	5665.000	99.000	5745.000	5745.000	5745.000
GR	98.000	5825.000	98.000	5915.000	97.000	6000.000	6000.000	96.000	6075.000	94.000	6100.000	6100.000	6100.000
GR	92.000	6135.000	88.000	6140.000	86.600	6150.000	6150.000	88.000	6155.000	92.000	6165.000	6165.000	6165.000
GR	93.000	6190.000	93.000	6265.000	94.000	6390.000	6390.000	94.000	6475.000	92.000	6525.000	6525.000	6525.000
GR	92.000	6561.000	89.000	6566.000	87.000	6567.000	6567.000	86.000	6571.000	86.000	6581.000	6581.000	6581.000
GR	86.500	6591.000	86.500	6601.000	87.000	6607.000	6607.000	88.000	6609.000	89.000	6631.000	6631.000	6631.000
GR	92.000	6646.000	94.000	6666.000	96.000	6696.000	6696.000	97.000	6766.000	98.000	6826.000	6826.000	6826.000
GR	98.000	6864.000	100.000	6884.000	102.000	6904.000	6904.000	104.000	6922.000	106.000	6937.000	6937.000	6937.000
GR	108.000	6987.000	112.000	7007.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QT	7.000	4496.000	3677.000	12766.000	27694.000	5967.000	5967.000	3887.000	2552.000	.000	.000	.000	.000
NH	6.000	.200	4698.000	.130	4888.000	.080	.080	5000.000	.055	5140.000	.080	.080	.080
NH	5323.000	.150	5359.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 2.

ELLCC = 106.27 ETRD = 109.65 SKEW ANGLE = 85.

X1	3782.200	26.000	5000.000	5140.000	1572.200	1572.200	1572.200	1572.200	.000	.000	.000	.000	.000
X4	3.000	104.110	4698.000	97.910	4888.000	106.900	106.900	5323.000	.000	.000	.000	.000	.000
GR	107.000	4600.000	106.300	4640.000	106.000	4660.000	4660.000	103.000	4640.000	98.000	5000.000	5000.000	5000.000
GR	97.000	5010.000	96.000	5025.000	93.800	5045.000	5045.000	93.760	5077.000	90.150	5096.000	5096.000	5096.000
GR	89.810	5100.000	89.970	5111.500	89.970	5111.510	5111.510	89.970	5111.990	89.970	5112.000	5112.000	5112.000
CR	89.970	5113.000	89.970	5113.010	89.970	5113.490	5113.490	89.970	5113.500	90.760	5119.000	5119.000	5119.000
GR	96.700	5140.000	97.300	5150.000	99.000	5219.000	5219.000	111.000	5359.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000	.000	.000	.000
NH	6.000	.200	4698.000	.130	4888.000	.080	.080	5000.000	.055	5150.000	.080	.080	.080
NH	5323.000	.150	5359.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	4365.200	.000	.000	.000	583.000	583.000	583.000	583.000	.000	1.090	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	110.000	.000	.000	.000
X4	3.000	105.200	4098.000	99.000	4888.000	107.900	107.900	5323.000	.000	.000	.000	.000	.000
NH	3.000	.130	5000.000	.055	5125.000	.150	.150	5359.000	.000	.000	.000	.000	.000

BRIDGE # 2, ABINGTON RD. SR1310

NOTE : PLEASE CHECK THE LAST THREE BT POINTS

X1	4366.200	39.000	5000.000	5125.000	1.000	1.000	1.000	1.000	.000	.000	.000	.000	.000
BT	-39.000	4660.000	110.000	4800.000	110.000	110.000	110.000	110.000	4913.000	109.840	104.000	104.000	104.000
BT	.000	5000.000	109.650	5000.010	112.510	112.510	112.510	100.600	5009.990	112.510	100.000	100.000	100.000
BT	.000	5010.000	112.510	106.250	112.510	112.510	112.510	106.200	5045.000	112.510	106.130	106.130	106.130
BT	.000	5051.500	112.510	106.110	112.510	112.510	112.510	103.610	5051.990	112.510	103.610	103.610	103.610

BT	.000	5052.000	112.510	93.790	5053.000	112.510	93.790	5053.010	112.510	103.610
BT	.000	5053.490	112.510	103.610	5053.500	112.510	106.110	5077.000	112.510	106.110
BT	.000	5090.000	112.510	106.100	5100.000	112.510	106.100	5111.500	112.510	106.100
BT	.000	5111.510	112.510	103.600	5111.990	112.510	103.600	5112.000	112.510	89.970
BT	.000	5113.000	112.510	89.970	5113.010	112.510	89.970	5113.490	112.510	103.600
BT	.000	5113.500	112.510	106.100	5119.000	112.510	106.120	5125.000	112.510	106.150
BT	.000	5143.000	112.510	106.230	5143.010	112.510	96.700	5150.000	112.510	100.000
BT	.000	5153.700	112.510	100.600	5153.710	109.760	100.600	5213.000	111.790	104.000
BT	.000	5219.000	112.000	105.000	5323.000	110.510	108.000	5359.000	110.000	110.000
GR	110.000	4660.000	110.000	4800.000	104.000	4913.000	100.600	5000.000	100.600	5000.010
GR	100.000	5009.990	100.000	5010.000	98.800	5025.000	93.800	5045.000	93.790	5051.500
GR	93.790	5051.510	93.790	5051.990	93.790	5052.000	93.790	5053.000	93.790	5053.010
GR	93.790	5053.490	93.790	5053.500	90.760	5077.000	90.150	5090.000	89.810	5100.000
GR	89.970	5111.500	89.970	5111.510	89.970	5111.990	89.970	5112.000	89.970	5113.000
GR	89.970	5113.010	89.970	5113.490	89.970	5113.500	90.760	5119.000	97.180	5125.000
GR	96.700	5143.000	96.700	5143.010	100.000	5150.000	100.600	5153.700	100.600	5153.710
GR	104.000	5213.000	105.000	5219.000	108.000	5323.000	110.000	5359.000	.000	.000

NH	3.000	.130	5000.000	.055	5125.000	.150	5359.000	.000	.000	.000
X1	4393.800	.000	.000	.000	27.600	27.600	27.600	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000

NH	3.000	.150	5000.000	.055	5125.000	.150	5359.000	.000	.000	.000
X1	4394.800	18.000	5000.000	5125.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	110.000	110.000	.000
GR	110.000	4660.000	110.000	4800.000	104.000	4913.000	100.600	5000.000	100.000	5010.000
LR	98.300	5025.000	94.000	5050.000	90.760	5077.000	90.150	5090.000	89.810	5100.000
LR	89.970	5112.000	90.760	5119.000	97.200	5125.000	97.400	5143.000	100.000	5150.000
GR	105.000	5219.000	108.000	5323.000	110.000	5359.000	.000	.000	.000	.000

NH	3.000	.150	5000.000	.055	5125.000	.150	5359.000	.000	.000	.000
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LAST X-SECTION FOR BRIDGE # 2.

X1	4539.800	.000	.000	.000	145.000	145.000	145.000	.000	.140	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	7.000	.200	5086.000	.140	5284.000	.085	5528.000	.050	5637.000	.085
NH	5770.000	.150	5976.000	.200	6325.000	.000	.000	.000	.000	.000

X-SECTION FOR MB.

X1	6320.000	37.000	5528.000	5637.000	1780.200	1780.200	1780.200	.000	.000	.000
X4	1.000	112.670	5976.000	.000	.000	.000	.000	.000	.000	.000
GR	140.000	5000.000	125.000	5015.000	120.000	5020.000	110.000	5030.000	112.000	5045.000
GR	104.000	5056.000	100.000	5070.000	104.000	5086.000	105.000	5126.000	106.000	5214.000
GR	104.000	5284.000	101.000	5352.000	105.000	5487.000	100.000	5528.000	94.000	5540.000
GR	93.000	5540.010	91.700	5543.000	92.000	5553.000	92.700	5563.000	92.800	5573.000
GR	93.000	5583.000	92.800	5593.000	92.600	5603.000	93.000	5608.000	100.000	5637.000
GR	104.000	5689.000	108.000	5770.000	112.000	5892.000	112.000	5944.000	116.000	6134.000
GR	119.000	6154.000	120.000	6176.000	124.000	6200.000	128.000	6232.000	132.000	6297.000
GR	136.000	6315.000	140.000	6325.000	.000	.000	.000	.000	.000	.000

QT	7.000	4368.000	8455.000	12457.000	27122.000	5865.000	3774.000	2473.000	.000	.000
NH	6.000	.200	5118.500	.085	5130.000	.050	5210.000	.085	5710.000	.150
NH	6338.500	.200	6573.000	.000	.000	.000	.000	.000	.000	.000

X-SECTION FOR MC.

X1	8430.000	35.000	5130.000	5210.000	2110.000	2110.000	2110.000	.000	.000	.000
X4	2.000	107.210	5118.500	120.410	6338.500	.000	.000	.000	.000	.000
GR	140.000	5080.000	137.000	5010.000	120.000	5040.000	116.000	5055.000	112.000	5070.000
GR	108.000	5085.000	106.000	5095.000	107.800	5130.000	103.000	5140.000	102.000	5144.000
GR	101.000	5145.000	100.700	5150.000	102.000	5160.000	101.300	5170.000	100.400	5180.000
GR	100.500	5190.000	101.000	5192.000	102.900	5195.000	104.000	5200.000	108.000	5210.000
GR	107.000	5260.000	108.000	5475.000	108.000	5570.000	110.000	5710.000	112.000	5795.000
GR	116.000	5930.000	120.000	6045.000	124.000	6150.000	120.000	6360.000	124.000	6385.000
GR	134.000	6405.000	134.000	6420.000	136.000	6495.000	139.000	6535.000	140.000	6573.000

NH	7.000	.200	4594.500	.180	4932.000	.085	5000.010	.050	5044.000	.085
NH	5272.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 3.
 ELLC = 107.98 ETRD = 109.57 SKEW ANGLE = 80.

X1	10692.000	32.000	5000.010	5044.000	2241.600	2241.600	2241.600	.000	.000	.000
X4	2.000	117.870	4932.000	115.790	5272.000	.000	.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	108.000	5000.010	107.980	5021.000
GR	105.790	5002.010	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5039.000
GR	103.490	5022.000	103.490	5022.010	103.900	5029.000	103.930	5030.000	104.800	5039.000
GR	104.530	5040.000	105.790	5042.590	108.050	5044.000	111.430	5050.000	112.000	5075.300
GR	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600	132.000	5769.100
GR	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000	.000	.000

NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	7.000	.200	4594.500	.180	4932.000	.085	5000.010	.050	5044.000	.085
NH	5272.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000
X1	10853.000	.000	.000	.000	161.400	161.400	161.400	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	109.650	109.760	.000
X4	2.000	118.080	4594.500	116.000	5272.000	.000	.000	.000	.000	.000

NH	7.000	.200	4547.000	.180	4945.000	.085	5000.000	.050	5045.000	.085
NH	5282.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000

BRIDGE # 3, PRIVATE BRIDGE.

X1	10854.000	38.000	5000.000	5045.000	1.000	1.000	1.000	.000	.000	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000
BT	-35.000	4382.200	140.000	4482.000	136.000	4594.500	136.000	4594.500	132.000	4830.000
BT	.000	4707.000	128.000	4830.000	124.000	4985.000	112.000	4990.000	111.450	5021.000
BT	.000	4945.000	116.000	4985.000	112.000	5000.010	108.580	5001.000	109.900	5039.000
BT	.000	5000.000	109.900	5002.010	109.900	5002.010	109.980	5019.990	109.590	5027.270
BT	.000	5001.010	110.160	5021.000	110.160	5021.000	109.570	5022.000	109.590	5039.000
BT	.000	5020.000	109.590	5021.000	109.570	5021.000	103.490	5022.000	103.490	5039.000
BT	.000	5022.010	109.600	5030.000	109.640	5030.000	107.270	5040.000	110.150	5075.300

BT	.000	5042.600	110.230	108.050	5044.000	110.270	108.050	5044.010	109.860	109.040
BT	.000	5044.990	109.860	109.040	5045.000	109.860	109.860	5050.000	111.430	111.430
BT	.000	5075.300	112.000	112.900	5255.000	116.000	116.000	5545.000	120.000	120.000
BT	.000	5637.800	124.000	124.000	5656.600	128.000	128.000	5769.100	132.000	132.000
BT	.000	5800.400	136.000	136.000	5825.400	140.000	140.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	111.450	4990.000	109.900	5000.000
GR	108.580	5000.010	108.580	5001.000	107.980	5001.010	107.980	5002.000	105.790	5002.010
GR	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000	103.490	5022.000
GR	103.490	5022.010	103.930	5030.000	104.850	5040.000	105.790	5042.590	108.050	5042.600
GR	108.050	5044.000	109.040	5044.010	109.040	5044.990	109.860	5045.000	111.430	5050.000
GR	112.000	5075.300	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600
GR	132.000	5769.100	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000

NH	7.000	.200	4547.000	.180	4945.000	.085	5000.000	.050	5045.000	.085
NH	5282.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000
X1	10866.000	.000	.000	.000	12.000	12.000	12.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000

NH	7.000	.200	4547.000	.180	4945.000	.085	5000.010	.050	5050.000	.085
NH	5282.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000
X1	10867.000	32.000	5000.010	5050.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	109.650	109.760	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	108.580	5000.010	107.980	5001.010
GR	105.790	5002.010	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000
GR	103.490	5022.000	103.490	5022.010	103.900	5029.000	103.930	5030.000	104.800	5039.000
GR	104.850	5040.000	105.790	5042.590	108.050	5044.000	111.430	5050.000	112.000	5075.300
GR	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600	132.000	5769.100
GR	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000	.000	.000

NH	7.000	.200	4547.000	.180	4945.000	.085	5000.010	.050	5050.000	.085
NH	5282.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000

LAST X-SECTION FOR BRIDGE # 3.

X1	10907.000	.000	.000	.000	39.600	39.600	39.600	.000	.250	.000
X4	2.000	133.940	4547.000	116.620	5282.000	.000	.000	.000	.000	.000

NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	5.000	.025	5000.000	.053	5023.750	.085	5136.750	.150	5578.000	.200
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 4.

ELLC = 109.26 ETRD = 111.31 SKEW ANGLE = 85.

X1	11793.000	25.000	5000.000	5023.750	933.000	933.000	933.000	.000	-.030	.000
X4	1.000	119.810	5578.000	.000	.000	.000	.000	.000	.000	.000
GR	132.000	4826.000	128.000	4849.000	124.000	4880.000	120.000	4921.000	116.000	4946.000
GR	113.000	4974.000	112.720	4984.000	110.390	5000.000	110.090	5001.000	108.580	5002.000
GR	106.000	5003.000	103.860	5005.700	105.460	5010.600	105.690	5011.300	105.770	5012.000
GR	107.000	5023.000	109.260	5023.500	111.080	5023.750	111.380	5032.850	112.000	5065.750

01-25-86

14:05:32

PAGE 9

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

THIS RUN EXECUTED 01-25-86 14:06:49

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KNC & EKL & DLY COMM 2320
 T3 LITTLE H & MULBERRY CREEK, CALDWELL CO., NC DATE:01/25/86 50-YEAR EVENT

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	0.	3.	0.	0.	.004840	.00	.0	0.	81.000	.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	2.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

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

THIS RUN EXECUTED 01-25-86 14:07:29

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 LITTLE H & MULBERRY CREEK, CALDWELL CO., NC DATE: 01/25/86 100-YEAR EVENT

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	4.	0.	0.	.004840	.00	.00	0.	81.000	.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALDCC	IBW	CHNIM	ITRACE
	3.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

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.

THIS RUN EXECUTED 01-25-86 14:08:10

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE:01/25/86 500-YEAR EVENT

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	5.	0.	0.	.004840	.00	.0	0.	81.000	.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	4.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

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.

THIS RUN EXECUTED 01-25-86 14:09:09

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.NEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE:01/25/86 20-YEAR EVENT

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	5.6	0.	0.	.004840	.00	.0	0.	81.000	.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FW	ALLDC	IBW	CHNIM	ITRACE
	5.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

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

THIS RUN EXECUTED 01-25-86 14:10:07

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

T1 HAYES, SEAY, MATT-IN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE:01/25/86 7-YEAR EVENT

J1	ICHECK	INC	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	5.	0.	0.	.004840	.00	.0	0.	81.000	.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	6.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

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

THIS RUN EXECUTED 01-25-86 14:11:05

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 LITTLE H & MULBERRY CREEK, CALDWELL CO., NC DATE:01/25/86 2.5-YEAR EVENT

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	5.8	0.	0.	.004840	.00	.0	0.	81.000	.000
J2	NPROF	IPLDT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

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

THIS RUN EXECUTED 01-25-86 14:12:03

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

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

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT

SECTNO	XLCH	CWSEL	DIFWSX	VLOB	VCH	VROB	QLOB	QCH	QROB	Q	QWEIR	QPR
140.000	.00	88.10	.00	2.01	7.22	2.37	644.29	2603.55	1276.16	4529.00	.00	.00
140.000	.00	90.37	.00	2.55	8.40	2.92	2589.70	3835.63	2309.66	8735.00	.00	.00
140.000	.00	91.89	.00	2.78	9.15	3.26	4926.91	4760.48	3158.61	12846.00	.00	.00
140.000	.00	95.69	.00	3.51	10.95	4.08	14552.66	7444.98	5822.35	27820.00	.00	.00
140.000	.00	95.69	.00	3.51	10.95	4.08	14552.66	7444.98	5822.35	27820.00	.00	.00
140.000	.00	95.69	.00	3.51	10.95	4.08	14552.66	7444.98	5822.35	27820.00	.00	.00
140.000	.00	95.69	.00	3.51	10.95	4.08	14552.66	7444.98	5822.35	27820.00	.00	.00
141.000	1.00	88.35	.25	1.84	5.54	4.39	683.94	1365.32	2479.74	4529.00	.00	.00
141.000	1.00	90.66	.28	2.30	6.18	4.83	2625.57	2123.56	3985.87	8735.00	.00	.00
141.000	1.00	92.19	.31	2.59	6.53	5.08	5064.93	2665.95	5115.12	12846.00	.00	.00
141.000	1.00	96.03	.34	3.42	7.52	5.85	14962.39	4281.53	8576.08	27820.00	.00	.00
141.000	1.00	96.03	.34	3.42	7.52	5.85	14962.39	4281.53	8576.08	27820.00	.00	.00
141.000	1.00	96.03	.34	3.42	7.52	5.85	14962.39	4281.53	8576.08	27820.00	.00	.00
141.000	1.00	96.03	.34	3.42	7.52	5.85	14962.39	4281.53	8576.08	27820.00	.00	.00
159.000	18.00	88.67	.32	1.74	5.12	4.05	773.78	1329.89	2425.33	4529.00	.00	.00
159.000	18.00	90.92	.27	2.20	5.83	4.55	2779.35	2064.96	3890.69	8735.00	.00	.00
159.000	18.00	92.43	.23	2.50	6.24	4.85	5224.57	2605.61	5015.82	12846.00	.00	.00
159.000	18.00	96.22	.19	3.35	7.34	5.70	15093.29	4233.46	8493.25	27820.00	.00	.00
159.000	18.00	96.22	.19	3.35	7.34	5.70	15093.29	4233.46	8493.25	27820.00	.00	.00
159.000	18.00	96.22	.19	3.35	7.34	5.70	15093.29	4233.46	8493.25	27820.00	.00	.00
159.000	18.00	96.22	.19	3.35	7.34	5.70	15093.29	4233.46	8493.25	27820.00	.00	.00
160.000	1.00	88.62	-.05	1.88	6.39	2.13	815.96	2446.71	1266.34	4529.00	.00	.00
160.000	1.00	90.86	-.06	2.32	7.59	2.66	2854.74	3623.33	2256.93	8735.00	.00	.00
160.000	1.00	92.36	-.07	2.55	8.40	3.01	5223.92	4534.62	3087.45	12846.00	.00	.00
160.000	1.00	96.13	-.09	3.34	10.36	3.88	14847.35	7235.93	5736.72	27820.00	.00	.00
160.000	1.00	96.13	-.09	3.34	10.36	3.88	14847.35	7235.93	5736.72	27820.00	.00	.00
160.000	1.00	96.13	-.09	3.34	10.36	3.88	14847.35	7235.93	5736.72	27820.00	.00	.00
160.000	1.00	96.13	-.09	3.34	10.36	3.88	14847.35	7235.93	5736.72	27820.00	.00	.00

SECNO	XLCH	CWSEL	DIFWSX	VLOS	VCH	VR0B	QLOB	QCH	QROB	Q	QWEIR	QPR
197.000	37.00	88.74	.13	1.90	6.48	2.16	795.76	2465.41	1267.83	4529.00	.00	.00
197.000	37.00	90.99	.13	2.34	7.68	2.69	2825.48	3646.56	2262.95	8735.00	.00	.00
197.000	37.00	92.49	.14	2.58	8.49	3.04	5186.83	4562.66	3096.51	12846.00	.00	.00
197.000	37.00	96.28	.15	3.36	10.41	3.90	14818.78	7256.10	5745.12	27820.00	.00	.00
197.000	37.00	96.28	.15	3.36	10.41	3.90	14818.78	7256.10	5745.12	27820.00	.00	.00
197.000	37.00	96.28	.15	3.36	10.41	3.90	14818.78	7256.10	5745.12	27820.00	.00	.00
197.000	37.00	96.28	.15	3.36	10.41	3.90	14818.78	7256.10	5745.12	27820.00	.00	.00
2210.000	2013.00	95.01	6.27	1.52	4.98	1.36	1467.78	2996.03	65.19	4529.00	.00	.00
2210.000	2013.00	97.02	6.03	2.05	5.57	1.63	4134.12	4308.77	292.11	8735.00	.00	.00
2210.000	2013.00	98.44	5.94	2.28	5.97	1.74	6775.81	5334.43	735.76	12846.00	.00	.00
2210.000	2013.00	101.98	5.70	2.62	6.80	2.41	16631.21	8120.88	3067.91	27820.00	.00	.00
2210.000	2013.00	101.98	5.70	2.62	6.80	2.41	16631.21	8120.88	3067.91	27820.00	.00	.00
2210.000	2013.00	101.98	5.70	2.62	6.80	2.41	16631.21	8120.88	3067.91	27820.00	.00	.00
2210.000	2013.00	101.98	5.70	2.62	6.80	2.41	16631.21	8120.88	3067.91	27820.00	.00	.00
3782.200	1572.20	98.69	3.68	1.00	4.43	1.27	146.59	4166.49	182.92	4496.00	.00	.00
3782.200	1572.20	100.75	3.73	1.94	5.78	2.16	817.92	7104.91	754.17	8677.00	.00	.00
3782.200	1572.20	102.19	3.76	2.52	6.78	2.74	1629.38	9700.80	1435.82	12766.00	.00	.00
3782.200	1572.20	105.71	3.73	3.28	9.32	4.11	5448.94	17935.93	4309.13	27694.00	.00	.00
3782.200	1572.20	105.71	3.73	3.28	9.32	4.11	5448.94	17935.93	4309.13	27694.00	.00	.00
3782.200	1572.20	105.71	3.73	3.28	9.32	4.11	5448.94	17935.93	4309.13	27694.00	.00	.00
3782.200	1572.20	105.71	3.73	3.28	9.32	4.11	5448.94	17935.93	4309.13	27694.00	.00	.00
4365.200	583.00	99.96	1.26	.00	4.66	.00	.00	4496.00	.00	4496.00	.00	.00
4365.200	583.00	102.30	1.54	.00	6.71	.00	.00	8677.00	.00	8677.00	.00	.00
4365.200	583.00	103.92	1.73	.00	8.40	.00	.00	12766.00	.00	12766.00	.00	.00
4365.200	583.00	107.73	2.02	.00	13.48	.00	.00	27694.00	.00	27694.00	.00	.00
4365.200	583.00	107.73	2.02	.00	13.48	.00	.00	27694.00	.00	27694.00	.00	.00
4365.200	583.00	107.73	2.02	.00	13.48	.00	.00	27694.00	.00	27694.00	.00	.00
4366.200	1.00	99.85	-1.11	.00	6.04	1.39	.00	4423.37	72.63	4496.00	.00	.00
4366.200	1.00	102.09	-1.20	.00	8.58	2.42	.00	8452.62	224.38	8677.00	.00	.00
4366.200	1.00	103.61	-1.31	.00	10.71	3.25	.00	12375.13	390.87	12766.00	.00	.00
4366.200	1.00	106.55	-1.18	.00	18.61	5.79	.00	26729.61	964.39	27694.00	.00	.00
4366.200	1.00	106.55	-1.18	.00	18.61	5.79	.00	26729.61	964.39	27694.00	.00	.00
4366.200	1.00	106.55	-1.18	.00	18.61	5.79	.00	26729.61	964.39	27694.00	.00	.00
4366.200	1.00	106.55	-1.18	.00	18.61	5.79	.00	26729.61	964.39	27694.00	.00	.00
4393.800	27.60	100.01	.16	.00	5.89	1.39	.00	4418.89	77.11	4496.00	.00	.00
4393.800	27.60	102.35	.26	.00	8.33	2.32	.00	8444.84	232.16	8677.00	.00	.00
4393.800	27.60	104.00	.39	.00	10.31	3.19	.00	12360.32	405.68	12766.00	.00	.00
4393.800	27.60	107.78	1.23	.00	18.61	5.79	.00	26728.65	965.35	27694.00	.00	.00
4393.800	27.60	107.78	1.23	.00	18.61	5.79	.00	26728.65	965.35	27694.00	.00	.00
4393.800	27.60	107.78	1.23	.00	18.61	5.79	.00	26728.65	965.35	27694.00	.00	.00
4393.800	27.60	107.78	1.23	.00	18.61	5.79	.00	26728.65	965.35	27694.00	.00	.00

SECNO	XLCH	CWSEL	DIFWSX	VLOB	VCH	VROB	QLOB	QCH	QROB	Q	QWEIR	QPR
4394.800	1.00	100.01	-.01	.00	5.95	.00	.00	4496.00	.00	4496.00	.00	.00
4394.800	1.00	102.33	.00	.00	8.30	.00	.00	8677.00	.00	8677.00	.00	.00
4394.800	1.00	104.00	.00	.00	10.20	.00	.00	12766.00	.00	12766.00	.00	.00
4394.800	1.00	113.55	5.77	1.65	8.22	1.93	3650.48	20082.35	3961.17	27694.00	.00	.00
4394.800	1.00	113.55	5.77	1.65	8.22	1.93	3650.48	20082.35	3961.17	27694.00	.00	.00
4394.800	1.00	113.55	5.77	1.65	8.22	1.93	3650.48	20082.35	3961.17	27694.00	.00	.00
4394.800	1.00	113.55	5.77	1.65	8.22	1.93	3650.48	20082.35	3961.17	27694.00	.00	.00
4539.800	145.00	100.68	.67	.00	5.39	1.15	.00	4411.79	84.21	4496.00	.00	.00
4539.800	145.00	103.41	1.06	.73	7.14	1.53	66.89	8283.44	326.67	8677.00	.00	.00
4539.800	145.00	105.55	1.55	1.20	8.30	1.77	357.77	11707.23	701.00	12766.00	.00	.00
4539.800	145.00	113.84	.29	1.64	8.11	1.91	3709.31	19989.59	3995.10	27694.00	.00	.00
4539.800	145.00	113.84	.29	1.64	8.11	1.91	3709.31	19989.59	3995.10	27694.00	.00	.00
4539.800	145.00	113.84	.29	1.64	8.11	1.91	3709.31	19989.59	3995.10	27694.00	.00	.00
4539.800	145.00	113.84	.29	1.64	8.11	1.91	3709.31	19989.59	3995.10	27694.00	.00	.00
6320.000	1780.20	103.61	2.93	.63	4.10	.81	185.40	4241.88	68.72	4496.00	.00	.00
6320.000	1780.20	106.68	3.26	1.08	4.92	1.33	1522.78	6734.93	419.30	8677.00	.00	.00
6320.000	1780.20	108.87	3.32	1.37	5.27	1.54	3357.94	8479.75	928.32	12766.00	.00	.00
6320.000	1780.20	115.94	2.10	1.81	5.44	1.46	10630.43	12944.12	4119.44	27694.00	.00	.00
6320.000	1780.20	115.94	2.10	1.81	5.44	1.46	10630.43	12944.12	4119.44	27694.00	.00	.00
6320.000	1780.20	115.94	2.10	1.81	5.44	1.46	10630.43	12944.12	4119.44	27694.00	.00	.00
6320.000	1780.20	115.94	2.10	1.81	5.44	1.46	10630.43	12944.12	4119.44	27694.00	.00	.00
8430.000	2110.00	108.17	4.56	.97	8.93	1.22	54.64	4074.89	238.47	4368.00	.00	.00
8430.000	2110.00	111.08	4.41	1.33	7.00	2.15	273.27	4826.38	3355.35	8455.00	.00	.00
8430.000	2110.00	112.67	3.79	1.50	7.17	2.48	448.41	5855.85	6152.74	12457.00	.00	.00
8430.000	2110.00	118.07	2.13	1.63	6.99	2.77	1126.88	8721.34	17273.78	27122.00	.00	.00
8430.000	2110.00	118.07	2.13	1.63	6.99	2.77	1126.88	8721.34	17273.78	27122.00	.00	.00
8430.000	2110.00	118.07	2.13	1.63	6.99	2.77	1126.88	8721.34	17273.78	27122.00	.00	.00
8430.000	2110.00	118.07	2.13	1.63	6.99	2.77	1126.88	8721.34	17273.78	27122.00	.00	.00
10692.000	2241.60	115.93	7.76	1.84	6.26	1.49	319.66	3243.82	804.52	4368.00	.00	.00
10692.000	2241.60	117.80	6.72	2.80	8.55	2.28	807.16	5136.86	2510.98	8455.00	.00	.00
10692.000	2241.60	119.23	6.56	3.42	9.91	2.69	1337.64	6568.88	4550.48	12457.00	.00	.00
10692.000	2241.60	123.02	4.95	4.17	12.45	3.62	3383.97	10336.04	13401.99	27122.00	.00	.00
10692.000	2241.60	123.02	4.95	4.17	12.45	3.62	3383.97	10336.04	13401.99	27122.00	.00	.00
10692.000	2241.60	123.02	4.95	4.17	12.45	3.62	3383.97	10336.04	13401.99	27122.00	.00	.00
10692.000	2241.60	123.02	4.95	4.17	12.45	3.62	3383.97	10336.04	13401.99	27122.00	.00	.00
10853.000	161.40	116.26	.33	1.82	6.12	1.48	326.92	3203.24	837.84	4368.00	.00	.00
10853.000	161.40	118.36	.56	2.66	8.04	2.16	835.77	4952.04	2667.19	8455.00	.00	.00
10853.000	161.40	119.92	.69	3.08	9.16	2.50	1384.06	6269.30	4803.64	12457.00	.00	.00
10853.000	161.40	123.85	.84	3.27	11.45	3.37	3596.15	9823.74	13702.11	27122.00	.00	.00
10853.000	161.40	123.85	.84	3.27	11.45	3.37	3596.15	9823.74	13702.11	27122.00	.00	.00
10853.000	161.40	123.85	.84	3.27	11.45	3.37	3596.15	9823.74	13702.11	27122.00	.00	.00
10853.000	161.40	123.85	.84	3.27	11.45	3.37	3596.15	9823.74	13702.11	27122.00	.00	.00

SECNO	XLCH	CWSEL	DIFVFX	VLOB	VCH	VROB	QLOB	QCH	QROB	Q	QWEIR	QPR
10854.000	1.00	116.51	.25	3.14	4.91	2.73	576.67	2124.70	1666.63	4368.00	.00	.00
10854.000	1.00	118.83	.47	3.79	5.39	3.10	1274.92	2892.56	4287.51	8455.00	.00	.00
10854.000	1.00	120.48	.56	4.18	5.81	3.22	1950.05	3552.74	6954.21	12457.00	.00	.00
10854.000	1.00	124.49	.64	4.49	7.09	3.86	4552.88	5611.11	16958.02	27122.00	.00	.00
10854.000	1.00	124.49	.64	4.49	7.09	3.86	4552.88	5611.11	16958.02	27122.00	.00	.00
10854.000	1.00	124.49	.64	4.49	7.09	3.86	4552.88	5611.11	16958.02	27122.00	.00	.50
10866.000	12.00	116.59	.08	3.09	4.81	2.68	580.96	2095.06	1691.98	4368.00	.00	.00
10866.000	12.00	118.90	.07	3.75	5.32	3.06	1277.37	2870.67	4306.96	8455.00	.00	.00
10866.000	12.00	120.55	.07	4.14	5.76	3.18	1951.98	3531.75	6973.27	12457.00	.00	.00
10866.000	12.00	124.56	.07	4.46	7.05	3.83	4558.35	5591.53	16972.13	27122.00	.00	.00
10866.000	12.00	124.56	.07	4.46	7.05	3.83	4558.35	5591.53	16972.13	27122.00	.00	.00
10866.000	12.00	124.56	.07	4.46	7.05	3.83	4558.35	5591.53	16972.13	27122.00	.00	.00
10866.000	12.00	124.56	.07	4.46	7.05	3.83	4558.35	5591.53	16972.13	27122.00	.00	.00
10867.000	1.00	116.53	-.06	1.75	5.57	1.40	342.17	3207.23	818.60	4368.00	.00	.00
10867.000	1.00	118.78	-.12	2.47	7.20	2.01	847.77	4958.35	2648.87	8455.00	.00	.00
10867.000	1.00	120.40	-.15	2.89	8.20	2.32	1355.74	6312.09	4789.17	12457.00	.00	.00
10867.000	1.00	124.37	-.19	3.32	10.54	3.20	3316.61	10199.22	13606.17	27122.00	.00	.00
10867.000	1.00	124.37	-.19	3.32	10.54	3.20	3316.61	10199.22	13606.17	27122.00	.00	.00
10867.000	1.00	124.37	-.19	3.32	10.54	3.20	3316.61	10199.22	13606.17	27122.00	.00	.00
10907.000	39.60	116.57	.05	1.80	5.79	1.42	330.17	3275.98	761.85	4368.00	.00	.00
10907.000	39.60	118.85	.06	2.54	7.43	2.07	836.69	5046.39	2571.92	8455.00	.00	.00
10907.000	39.60	120.47	.07	2.97	8.43	2.37	1346.76	6413.59	4696.65	12457.00	.00	.00
10907.000	39.60	124.46	.10	3.39	10.73	3.25	3300.70	10302.10	13519.20	27122.00	.00	.00
10907.000	39.60	124.46	.10	3.39	10.73	3.25	3300.70	10302.10	13519.20	27122.00	.00	.00
10907.000	39.60	124.46	.10	3.39	10.73	3.25	3300.70	10302.10	13519.20	27122.00	.00	.00
10907.000	39.60	124.46	.10	3.39	10.73	3.25	3300.70	10302.10	13519.20	27122.00	.00	.00
11793.000	933.00	118.56	1.98	2.48	5.99	1.85	755.68	1757.98	1854.34	4368.00	.00	.00
11793.000	933.00	121.20	2.35	2.98	6.65	1.87	1535.14	2368.73	4551.13	8455.00	.00	.00
11793.000	933.00	122.99	2.52	3.26	7.10	2.03	2268.06	2832.46	7356.49	12457.00	.00	.00
11793.000	933.00	127.35	2.88	4.05	8.48	2.56	5099.64	4261.20	17761.16	27122.00	.00	.00
11793.000	933.00	127.35	2.88	4.05	8.48	2.56	5099.64	4261.20	17761.16	27122.00	.00	.00
11793.000	933.00	127.35	2.88	4.05	8.48	2.56	5099.64	4261.20	17761.16	27122.00	.00	.00
11793.000	933.00	127.35	2.88	4.05	8.48	2.56	5099.64	4261.20	17761.16	27122.00	.00	.00
11873.000	80.20	118.77	.21	2.38	5.71	1.77	756.37	1700.99	1910.64	4368.00	.00	.00
11873.000	80.20	121.40	.20	2.86	6.36	1.83	1517.07	2290.50	4647.43	8455.00	.00	.00
11873.000	80.20	123.18	.19	3.14	6.83	2.00	2238.87	2751.11	7467.02	12457.00	.00	.00
11873.000	80.20	127.54	.20	3.92	8.19	2.54	5033.89	4150.48	17937.63	27122.00	.00	.00
11873.000	80.20	127.54	.20	3.92	8.19	2.54	5033.89	4150.48	17937.63	27122.00	.00	.00
11873.000	80.20	127.54	.20	3.92	8.19	2.54	5033.89	4150.48	17937.63	27122.00	.00	.00
11873.000	80.20	127.54	.20	3.92	8.19	2.54	5033.89	4150.48	17937.63	27122.00	.00	.00

SECNO	XLCH	CWSEL	DIFWSX	VLOB	VCH	VR0B	QLOB	QCH	QROB	Q	QWEIR	QPR
11874.000	1.00	118.91	.15	3.12	3.79	2.09	1024.01	945.63	2398.36	4368.00	.00	.00
11874.000	1.00	121.51	.12	3.75	4.33	1.94	2029.00	1348.86	5077.13	8455.00	.00	.00
11874.000	1.00	123.28	.10	4.15	4.76	2.04	3009.83	1681.85	7765.32	12457.00	.00	.00
11874.000	1.00	127.61	.07	5.24	5.88	2.48	6765.88	2680.69	17675.42	27122.00	.00	.00
11874.000	1.00	127.61	.07	5.24	5.88	2.48	6765.88	2680.69	17675.42	27122.00	.00	.00
11874.000	1.00	127.61	.07	5.24	5.88	2.48	6765.88	2680.69	17675.42	27122.00	.00	.00
11874.000	1.00	127.61	.07	5.24	5.88	2.48	6765.88	2680.69	17675.42	27122.00	.00	.00
11886.000	11.60	118.96	.04	3.10	3.76	2.07	1024.81	941.27	2401.92	4368.00	.00	.00
11886.000	11.60	121.55	.04	3.73	4.31	1.93	2029.22	1344.63	5081.16	8455.00	.00	.00
11886.000	11.60	123.32	.04	4.13	4.73	2.03	3010.31	1676.74	7769.95	12457.00	.00	.00
11886.000	11.60	127.65	.04	5.21	5.85	2.47	6768.13	2674.73	17679.14	27122.00	.00	.00
11886.000	11.60	127.65	.04	5.21	5.85	2.47	6768.13	2674.73	17679.14	27122.00	.00	.00
11886.000	11.60	127.65	.04	5.21	5.85	2.47	6768.13	2674.73	17679.14	27122.00	.00	.00
11886.000	11.60	127.65	.04	5.21	5.85	2.47	6768.13	2674.73	17679.14	27122.00	.00	.00
11887.000	1.00	118.91	-.05	2.32	5.53	1.70	760.89	1667.13	1939.99	4368.00	.00	.00
11887.000	1.00	121.52	-.04	2.80	6.22	1.79	1518.93	2258.77	4677.30	8455.00	.00	.00
11887.000	1.00	123.29	-.03	3.09	6.71	1.97	2240.91	2720.74	7495.35	12457.00	.00	.00
11887.000	1.00	127.63	-.02	3.89	8.12	2.52	5038.98	4128.87	17954.16	27122.00	.00	.00
11887.000	1.00	127.63	-.02	3.89	8.12	2.52	5038.98	4128.87	17954.16	27122.00	.00	.00
11887.000	1.00	127.63	-.02	3.89	8.12	2.52	5038.98	4128.87	17954.16	27122.00	.00	.00
11887.000	1.00	127.63	-.02	3.89	8.12	2.52	5038.98	4128.87	17954.16	27122.00	.00	.00
11906.000	19.30	118.95	.04	2.32	5.53	1.70	761.00	1666.28	1940.72	4368.00	.00	.00
11906.000	19.30	121.55	.04	2.80	6.22	1.79	1518.93	2257.98	4678.09	8455.00	.00	.00
11906.000	19.30	123.32	.04	3.09	6.71	1.96	2240.93	2719.84	7496.23	12457.00	.00	.00
11906.000	19.30	127.67	.04	3.89	8.11	2.51	5039.31	4127.01	17955.68	27122.00	.00	.00
11906.000	19.30	127.67	.04	3.89	8.11	2.51	5039.31	4127.01	17955.68	27122.00	.00	.00
11906.000	19.30	127.67	.04	3.89	8.11	2.51	5039.31	4127.01	17955.68	27122.00	.00	.00
11906.000	19.30	127.67	.04	3.89	8.11	2.51	5039.31	4127.01	17955.68	27122.00	.00	.00
14980.000	3074.00	123.00	4.06	.86	3.93	1.39	648.38	3149.22	570.40	4368.00	.00	.00
14980.000	3074.00	125.51	3.95	1.39	4.52	1.66	2686.50	4563.59	1204.90	8455.00	.00	.00
14980.000	3074.00	127.28	3.95	1.71	4.95	1.86	4935.91	5720.98	1800.11	12457.00	.00	.00
14980.000	3074.00	131.82	4.14	2.49	6.08	2.39	13931.01	9325.44	3865.55	27122.00	.00	.00
14980.000	3074.00	131.82	4.14	2.49	6.08	2.39	13931.01	9325.44	3865.55	27122.00	.00	.00
14980.000	3074.00	131.82	4.14	2.49	6.08	2.39	13931.01	9325.44	3865.55	27122.00	.00	.00
14980.000	3074.00	131.82	4.14	2.49	6.08	2.39	13931.01	9325.44	3865.55	27122.00	.00	.00
15130.000	150.00	123.20	.20	1.76	6.72	2.87	96.81	3238.19	1033.00	4368.00	.00	.00
15130.000	150.00	125.58	.08	3.11	8.16	3.83	439.03	5430.72	2585.26	8455.00	.00	.00
15130.000	150.00	127.27	.00	3.85	9.16	3.92	797.25	7306.39	4353.35	12457.00	.00	.00
15130.000	150.00	131.73	-.04	4.69	10.15	4.05	1879.84	11666.48	13575.68	27122.00	.00	.00
15130.000	150.00	131.78	-.04	4.69	10.15	4.05	1879.84	11666.48	13575.68	27122.00	.00	.00
15130.000	150.00	131.78	-.04	4.69	10.15	4.05	1879.84	11666.48	13575.68	27122.00	.00	.00
15130.000	150.00	131.78	-.04	4.69	10.15	4.05	1879.84	11666.48	13575.68	27122.00	.00	.00

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT

SECNO	XLCH	CWSEL	ELMIN	SSTA	STCHL	STCHR	ENDST	TOPWID	STENCL	STENCR	PERENC
140.000	.00	88.10	78.41	4310.19	5000.00	5042.00	5150.29	340.10	.00	.00	.00
140.000	.00	90.37	78.41	4578.89	5000.00	5042.00	5157.12	578.23	.00	.00	.00
140.000	.00	91.89	78.41	4421.65	5000.00	5042.00	5161.66	740.01	.00	.00	.00
140.000	.00	95.69	78.41	4338.02	5000.00	5042.00	5162.00	823.98	.00	.00	.00
140.000	.00	95.69	78.41	4338.02	5000.00	5042.00	5162.00	823.98	.00	.00	.00
140.000	.00	95.69	78.41	4338.02	5000.00	5042.00	5162.00	823.98	.00	.00	.00
140.000	.00	95.69	78.41	4338.02	5000.00	5042.00	5162.00	823.98	.00	.00	.00
141.000	1.00	88.35	78.41	4784.63	5000.00	5042.00	5151.05	366.41	.00	.00	.00
141.000	1.00	90.66	78.41	4549.15	5000.00	5042.00	5157.98	608.83	.00	.00	.00
141.000	1.00	92.19	78.41	4406.16	5000.00	5042.00	5162.00	755.84	.00	.00	.00
141.000	1.00	96.03	78.41	4330.48	5000.00	5042.00	5162.00	831.52	.00	.00	.00
141.000	1.00	96.03	78.41	4330.48	5000.00	5042.00	5162.00	831.52	.00	.00	.00
141.000	1.00	96.03	78.41	4330.48	5000.00	5042.00	5162.00	831.52	.00	.00	.00
141.000	1.00	96.03	78.41	4330.48	5000.00	5042.00	5162.00	831.52	.00	.00	.00
159.000	18.00	88.67	78.41	4752.41	5000.00	5042.00	5152.00	399.59	.00	.00	.00
159.000	18.00	90.92	78.41	4521.92	5000.00	5042.00	5158.77	636.85	.00	.00	.00
159.000	18.00	92.43	78.41	4401.65	5000.00	5042.00	5162.00	760.35	.00	.00	.00
159.000	18.00	96.22	78.41	4321.51	5000.00	5042.00	5162.00	840.49	.00	.00	.00
159.000	18.00	96.22	78.41	4321.51	5000.00	5042.00	5162.00	840.49	.00	.00	.00
159.000	18.00	96.22	78.41	4321.51	5000.00	5042.00	5162.00	840.49	.00	.00	.00
159.000	18.00	96.22	78.41	4321.51	5000.00	5042.00	5162.00	840.49	.00	.00	.00
160.000	1.00	88.62	78.41	4757.39	5000.00	5042.00	5151.85	394.46	.00	.00	.00
160.000	1.00	90.86	78.41	4528.41	5000.00	5042.00	5158.58	630.18	.00	.00	.00
160.000	1.00	92.36	78.41	4403.07	5000.00	5042.00	5162.00	758.93	.00	.00	.00
160.000	1.00	96.13	78.41	4325.89	5000.00	5042.00	5162.00	836.11	.00	.00	.00
160.000	1.00	96.13	78.41	4325.89	5000.00	5042.00	5162.00	836.11	.00	.00	.00
160.000	1.00	96.13	78.41	4325.89	5000.00	5042.00	5162.00	836.11	.00	.00	.00
160.000	1.00	96.13	78.41	4325.89	5000.00	5042.00	5162.00	836.11	.00	.00	.00
197.000	37.00	88.74	78.60	4763.73	5000.00	5042.00	5151.67	387.94	.00	.00	.00
197.000	37.00	90.99	78.60	4534.17	5000.00	5042.00	5158.42	624.24	.00	.00	.00
197.000	37.00	92.49	78.60	4404.25	5000.00	5042.00	5162.00	757.75	.00	.00	.00
197.000	37.00	96.28	78.60	4327.93	5000.00	5042.00	5162.00	834.07	.00	.00	.00
197.000	37.00	96.28	78.60	4327.93	5000.00	5042.00	5162.00	834.07	.00	.00	.00
197.000	37.00	96.28	78.60	4327.93	5000.00	5042.00	5162.00	834.07	.00	.00	.00
197.000	37.00	96.28	78.60	4327.93	5000.00	5042.00	5162.00	834.07	.00	.00	.00
2210.000	2013.00	95.01	86.00	5584.88	6561.00	6646.00	6681.18	594.07	.00	.00	.00
2210.000	2013.00	97.02	86.00	5572.42	6561.00	6646.00	6767.87	796.98	.00	.00	.00
2210.000	2013.00	98.44	86.00	5568.89	6561.00	6646.00	6868.42	1114.07	.00	.00	.00
2210.000	2013.00	101.98	86.00	5535.25	6561.00	6646.00	6903.83	1368.58	.00	.00	.00
2210.000	2013.00	101.98	86.00	5535.25	6561.00	6646.00	6903.83	1368.58	.00	.00	.00
2210.000	2013.00	101.98	86.00	5535.25	6561.00	6646.00	6903.83	1368.58	.00	.00	.00
2210.000	2013.00	101.98	86.00	5535.25	6561.00	6646.00	6903.83	1368.58	.00	.00	.00

SECNO	XLCH	CWSEL	ELMIN	SSTA	STCHL	STCHR	ENDST	TOPWID	STENCL	STENCR	PERENC
3782.200	1572.20	98.69	88.72	4878.62	5000.00	5140.00	5228.04	349.42	.00	.00	.00
3782.200	1572.20	100.75	88.72	4854.02	5000.00	5140.00	5251.76	397.75	.00	.00	.00
3782.200	1572.20	102.19	88.72	4821.74	5000.00	5140.00	5268.55	446.81	.00	.00	.00
3782.200	1572.20	105.71	88.72	4611.18	5000.00	5140.00	5309.28	698.11	.00	.00	.00
3782.200	1572.20	105.71	88.72	4611.18	5000.00	5140.00	5309.28	698.11	.00	.00	.00
3782.200	1572.20	105.71	88.72	4611.18	5000.00	5140.00	5309.28	698.11	.00	.00	.00
3782.200	1572.20	105.71	88.72	4611.18	5000.00	5140.00	5309.28	698.11	.00	.00	.00
4365.200	583.00	99.96	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4365.200	583.00	102.30	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4365.200	583.00	103.92	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4365.200	583.00	107.73	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4365.200	583.00	107.73	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4365.200	583.00	107.73	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4365.200	583.00	107.73	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4366.200	1.00	99.85	89.81	5011.88	5000.00	5125.00	5149.68	137.80	.00	.00	.00
4366.200	1.00	102.09	89.81	4961.83	5000.00	5125.00	5179.72	217.89	.00	.00	.00
4366.200	1.00	103.61	89.81	4923.02	5000.00	5125.00	5206.17	283.15	.00	.00	.00
4366.200	1.00	106.55	89.81	4864.90	5000.00	5125.00	5272.86	407.96	.00	.00	.00
4366.200	1.00	106.55	89.81	4864.90	5000.00	5125.00	5272.86	407.96	.00	.00	.00
4366.200	1.00	106.55	89.81	4864.90	5000.00	5125.00	5272.86	407.96	.00	.00	.00
4366.200	1.00	106.55	89.81	4864.90	5000.00	5125.00	5272.86	407.96	.00	.00	.00
4393.800	27.60	100.01	89.81	5009.78	5000.00	5125.00	5150.08	140.30	.00	.00	.00
4393.800	27.60	102.35	89.81	4955.09	5000.00	5125.00	5184.31	229.22	.00	.00	.00
4393.800	27.60	104.00	89.81	4913.00	5000.00	5125.00	5213.00	300.00	.00	.00	.00
4393.800	27.60	107.78	89.81	4841.82	5000.00	5125.00	5315.36	473.54	.00	.00	.00
4393.800	27.60	107.78	89.81	4841.82	5000.00	5125.00	5315.36	473.54	.00	.00	.00
4393.800	27.60	107.78	89.81	4841.82	5000.00	5125.00	5315.36	473.54	.00	.00	.00
4393.800	27.60	107.78	89.81	4841.82	5000.00	5125.00	5315.36	473.54	.00	.00	.00
4394.800	1.00	100.01	89.81	5009.80	5000.00	5125.00	5125.00	115.20	.00	.00	.00
4394.800	1.00	102.35	89.81	5000.00	5000.00	5125.00	5125.00	125.00	.00	.00	.00
4394.800	1.00	104.00	89.81	5000.00	5000.00	5125.00	5125.00	125.00	.00	.00	.00
4394.800	1.00	113.55	89.81	4660.00	5000.00	5125.00	5359.00	699.00	.00	.00	.00
4394.800	1.00	113.55	89.81	4660.00	5000.00	5125.00	5359.00	699.00	.00	.00	.00
4394.800	1.00	113.55	89.81	4660.00	5000.00	5125.00	5359.00	699.00	.00	.00	.00
4394.800	1.00	113.55	89.81	4660.00	5000.00	5125.00	5359.00	699.00	.00	.00	.00
4539.800	145.00	100.68	89.95	5000.99	5000.00	5125.00	5157.46	156.47	.00	.00	.00
4539.800	145.00	103.41	89.95	4931.64	5000.00	5125.00	5195.15	263.51	.00	.00	.00
4539.800	145.00	105.55	89.95	4886.38	5000.00	5125.00	5233.33	346.95	.00	.00	.00
4539.800	145.00	113.84	89.95	4660.00	5000.00	5125.00	5359.00	699.00	.00	.00	.00
4539.800	145.00	113.84	89.95	4660.00	5000.00	5125.00	5359.00	699.00	.00	.00	.00
4539.800	145.00	113.84	89.95	4660.00	5000.00	5125.00	5359.00	699.00	.00	.00	.00
4539.800	145.00	113.84	89.95	4660.00	5000.00	5125.00	5359.00	699.00	.00	.00	.00

SECNO	XLCH	CWSEL	ELMIN	SSTA	STCHL	STCHR	ENDST	TOPWID	STENCL	STENCR	PERENC
6320.000	1780.20	103.61	91.70	5057.37	5528.00	5637.00	5683.90	359.69	.00	.00	.00
6320.000	1780.20	106.68	91.70	5052.32	5528.00	5637.00	5743.22	690.90	.00	.00	.00
6320.000	1780.20	108.87	91.70	5049.30	5528.00	5637.00	5796.69	747.39	.00	.00	.00
6320.000	1780.20	115.94	91.70	5030.25	5528.00	5637.00	6130.84	1100.59	.00	.00	.00
6320.000	1780.20	115.94	91.70	5030.25	5528.00	5637.00	6130.84	1100.59	.00	.00	.00
6320.000	1780.20	115.94	91.70	5030.25	5528.00	5637.00	6130.84	1100.59	.00	.00	.00
6320.000	1780.20	115.94	91.70	5030.25	5528.00	5637.00	6130.84	1100.59	.00	.00	.00
* 8430.000	2110.00	108.17	100.40	5084.36	5130.00	5210.00	5581.89	497.53	.00	.00	.00
8430.000	2110.00	111.08	100.40	5073.42	5130.00	5210.00	5756.20	682.77	.00	.00	.00
8430.000	2110.00	112.67	100.40	5067.48	5130.00	5210.00	5817.70	750.22	.00	.00	.00
8430.000	2110.00	118.07	100.40	5047.25	5130.00	5210.00	5989.38	942.12	.00	.00	.00
8430.000	2110.00	118.07	100.40	5047.25	5130.00	5210.00	5989.38	942.12	.00	.00	.00
8430.000	2110.00	118.07	100.40	5047.25	5130.00	5210.00	5989.38	942.12	.00	.00	.00
8430.000	2110.00	118.07	100.40	5047.25	5130.00	5210.00	5989.38	942.12	.00	.00	.00
10692.000	2241.60	115.93	103.28	4944.11	5000.01	5044.00	5281.72	337.61	.00	.00	.00
10692.000	2241.60	117.80	103.28	4932.45	5000.01	5044.00	5409.05	476.60	.00	.00	.00
10692.000	2241.60	119.23	103.28	4923.56	5000.01	5044.00	5506.08	582.51	.00	.00	.00
10692.000	2241.60	123.02	103.28	4847.44	5000.01	5044.00	5619.82	772.38	.00	.00	.00
10692.000	2241.60	123.02	103.28	4847.44	5000.01	5044.00	5619.82	772.38	.00	.00	.00
10692.000	2241.60	123.02	103.28	4847.44	5000.01	5044.00	5619.82	772.38	.00	.00	.00
10692.000	2241.60	123.02	103.28	4847.44	5000.01	5044.00	5619.82	772.38	.00	.00	.00
10853.000	161.40	116.26	103.49	4943.39	5000.01	5044.00	5289.56	346.17	.00	.00	.00
10853.000	161.40	118.36	103.49	4594.50	5000.01	5044.00	5433.34	506.33	.00	.00	.00
10853.000	161.40	119.92	103.49	4594.50	5000.01	5044.00	5539.76	640.18	.00	.00	.00
10853.000	161.40	123.85	103.49	4594.50	5000.01	5044.00	5634.52	866.86	.00	.00	.00
10853.000	161.40	123.85	103.49	4594.50	5000.01	5044.00	5634.52	866.86	.00	.00	.00
10853.000	161.40	123.85	103.49	4594.50	5000.01	5044.00	5634.52	866.86	.00	.00	.00
10853.000	161.40	123.85	103.49	4594.50	5000.01	5044.00	5634.52	866.86	.00	.00	.00
10854.000	1.00	116.51	103.49	4941.81	5000.00	5045.00	5292.22	350.41	.00	.00	.00
10854.000	1.00	118.83	103.49	4927.25	5000.00	5045.00	5460.94	533.69	.00	.00	.00
10854.000	1.00	120.48	103.49	4909.02	5000.00	5045.00	5556.32	647.29	.00	.00	.00
10854.000	1.00	124.49	103.49	4814.65	5000.00	5045.00	5640.15	825.49	.00	.00	.00
10854.000	1.00	124.49	103.49	4814.65	5000.00	5045.00	5640.15	825.49	.00	.00	.00
10854.000	1.00	124.49	103.49	4814.65	5000.00	5045.00	5640.15	825.49	.00	.00	.00
10854.000	1.00	124.49	103.49	4814.65	5000.00	5045.00	5640.15	825.49	.00	.00	.00
10866.000	12.00	116.59	103.49	4941.33	5000.00	5045.00	5297.78	356.46	.00	.00	.00
10866.000	12.00	118.90	103.49	4926.86	5000.00	5045.00	5465.43	538.56	.00	.00	.00
10866.000	12.00	120.55	103.49	4907.70	5000.00	5045.00	5557.69	649.99	.00	.00	.00
10866.000	12.00	124.56	103.49	4813.02	5000.00	5045.00	5640.39	827.37	.00	.00	.00
10866.000	12.00	124.56	103.49	4813.02	5000.00	5045.00	5640.39	827.37	.00	.00	.00
10866.000	12.00	124.56	103.49	4813.02	5000.00	5045.00	5640.39	827.37	.00	.00	.00
10866.000	12.00	124.56	103.49	4813.02	5000.00	5045.00	5640.39	827.37	.00	.00	.00

SECNO	XLCH	CWSEL	ELMH	SSTA	STCHL	STCHR	ENDST	TOPWID	STENCL	STENCR	PERENC
10867.000	1.00	116.53	103.49	4941.71	5000.01	5050.00	5293.33	351.62	.00	.00	.00
10867.000	1.00	118.78	103.49	4927.61	5000.01	5050.00	5456.77	529.16	.00	.00	.00
10867.000	1.00	120.40	103.49	4910.99	5000.01	5050.00	5554.29	643.29	.00	.00	.00
10867.000	1.00	124.37	103.49	4818.69	5000.01	5050.00	5639.53	820.84	.00	.00	.00
10867.000	1.00	124.37	103.49	4818.69	5000.01	5050.00	5639.53	820.84	.00	.00	.00
10867.000	1.00	124.37	103.49	4818.69	5000.01	5050.00	5639.53	820.84	.00	.00	.00
10867.000	1.00	124.37	103.49	4818.69	5000.01	5050.00	5639.53	820.84	.00	.00	.00
10907.000	39.60	116.57	103.74	4942.99	5000.01	5050.00	5278.51	335.53	.00	.00	.00
10907.000	39.60	118.85	103.74	4928.78	5000.01	5050.00	5443.25	514.47	.00	.00	.00
10907.000	39.60	120.47	103.74	4914.98	5000.01	5050.00	5550.17	635.19	.00	.00	.00
10907.000	39.60	124.46	103.74	4823.46	5000.01	5050.00	5638.80	815.34	.00	.00	.00
10907.000	39.60	124.46	103.74	4823.46	5000.01	5050.00	5638.80	815.34	.00	.00	.00
10907.000	39.60	124.46	103.74	4823.46	5000.01	5050.00	5638.80	815.34	.00	.00	.00
10907.000	39.60	124.46	103.74	4823.46	5000.01	5050.00	5638.80	815.34	.00	.00	.00
11793.000	933.00	118.56	103.83	4929.86	5000.00	5023.75	5433.57	503.72	.00	.00	.00
11793.000	933.00	121.20	103.83	4908.41	5000.00	5023.75	5648.94	740.53	.00	.00	.00
11793.000	933.00	122.99	103.83	4890.03	5000.00	5023.75	5725.17	835.15	.00	.00	.00
11793.000	933.00	127.35	103.83	4853.83	5000.00	5023.75	5819.09	965.26	.00	.00	.00
11793.000	933.00	127.35	103.83	4853.83	5000.00	5023.75	5819.09	965.26	.00	.00	.00
11793.000	933.00	127.35	103.83	4853.83	5000.00	5023.75	5819.09	965.26	.00	.00	.00
11793.000	933.00	127.35	103.83	4853.83	5000.00	5023.75	5819.09	965.26	.00	.00	.00
11873.000	80.20	118.77	103.86	4928.72	5000.00	5023.75	5454.53	525.81	.00	.00	.00
11873.000	80.20	121.40	103.86	4906.69	5000.00	5023.75	5656.10	749.41	.00	.00	.00
11873.000	80.20	123.18	103.86	4888.47	5000.00	5023.75	5731.65	843.18	.00	.00	.00
11873.000	80.20	127.54	103.86	4852.47	5000.00	5023.75	5821.80	969.33	.00	.00	.00
11873.000	80.20	127.54	103.86	4852.47	5000.00	5023.75	5821.80	969.33	.00	.00	.00
11873.000	80.20	127.54	103.86	4852.47	5000.00	5023.75	5821.80	969.33	.00	.00	.00
11873.000	80.20	127.54	103.86	4852.47	5000.00	5023.75	5821.80	969.33	.00	.00	.00
11874.000	1.00	118.91	103.86	4927.78	5000.00	5023.75	5471.96	544.17	.00	.00	.00
11874.000	1.00	121.51	103.86	4905.50	5000.00	5023.75	5661.04	755.54	.00	.00	.00
11874.000	1.00	123.28	103.86	4867.41	5000.00	5023.75	5736.04	848.64	.00	.00	.00
11874.000	1.00	127.61	103.86	4852.03	5000.00	5023.75	5822.70	970.67	.00	.00	.00
11874.000	1.00	127.61	103.86	4852.03	5000.00	5023.75	5822.70	970.67	.00	.00	.00
11874.000	1.00	127.61	103.86	4852.03	5000.00	5023.75	5822.70	970.67	.00	.00	.00
11874.000	1.00	127.61	103.86	4852.03	5000.00	5023.75	5822.70	970.67	.00	.00	.00
11886.000	11.60	118.96	103.86	4927.56	5000.00	5023.75	5476.09	548.53	.00	.00	.00
11886.000	11.60	121.55	103.86	4905.19	5000.00	5023.75	5662.32	757.13	.00	.00	.00
11886.000	11.60	123.32	103.86	4887.04	5000.00	5023.75	5737.56	850.51	.00	.00	.00
11886.000	11.60	127.65	103.86	4851.73	5000.00	5023.75	5823.30	971.57	.00	.00	.00
11886.000	11.60	127.65	103.86	4851.73	5000.00	5023.75	5823.30	971.57	.00	.00	.00
11886.000	11.60	127.65	103.86	4851.73	5000.00	5023.75	5823.30	971.57	.00	.00	.00
11886.000	11.60	127.65	103.86	4851.73	5000.00	5023.75	5823.30	971.57	.00	.00	.00

49

SENO	XLCH	CUSEL	ELMIX	SSTA	STCHL	STCHR	ENDST	TOPWID	STENCL	STENCR	PERENC
11887.000	1.00	118.91	103.86	4927.81	5000.00	5023.75	5471.41	543.59	.00	.00	.00
11887.000	1.00	121.52	103.86	4905.46	5000.00	5023.75	5661.18	755.72	.00	.00	.00
11887.000	1.00	123.29	103.86	4887.29	5000.00	5023.75	5736.50	849.21	.00	.00	.00
11887.000	1.00	127.63	103.86	4851.83	5000.00	5023.75	5823.08	971.25	.00	.00	.00
11887.000	1.00	127.63	103.86	4851.83	5000.00	5023.75	5823.08	971.25	.00	.00	.00
11887.000	1.00	127.63	103.86	4851.83	5000.00	5023.75	5823.08	971.25	.00	.00	.00
11906.000	19.30	118.95	103.90	4927.79	5000.00	5023.75	5471.83	544.03	.00	.00	.00
11906.000	19.30	121.55	103.90	4905.43	5000.00	5023.75	5661.30	755.87	.00	.00	.00
11906.000	19.30	123.32	103.90	4887.26	5000.00	5023.75	5736.64	849.38	.00	.00	.00
11906.000	19.30	127.67	103.90	4851.78	5000.00	5023.75	5823.19	971.40	.00	.00	.00
11906.000	19.30	127.67	103.90	4851.78	5000.00	5023.75	5823.19	971.40	.00	.00	.00
11906.000	19.30	127.67	103.90	4851.78	5000.00	5023.75	5823.19	971.40	.00	.00	.00
14980.000	3074.00	123.00	109.00	5285.15	5700.00	5783.00	5876.37	611.22	.00	.00	.00
14980.000	3074.00	125.51	109.00	5186.84	5700.00	5783.00	5917.03	730.20	.00	.00	.00
14980.000	3074.00	127.28	109.00	5133.71	5700.00	5783.00	5922.28	788.57	.00	.00	.00
14980.000	3074.00	131.82	109.00	5091.00	5700.00	5783.00	5930.39	839.39	.00	.00	.00
14980.000	3074.00	131.82	109.00	5091.00	5700.00	5783.00	5930.39	839.39	.00	.00	.00
14980.000	3074.00	131.82	109.00	5091.00	5700.00	5783.00	5930.39	839.39	.00	.00	.00
15130.000	150.00	123.20	113.50	5046.97	5081.00	5159.00	5280.06	223.32	.00	.00	.00
15130.000	150.00	125.58	113.50	5043.02	5081.00	5159.00	5331.92	288.89	.00	.00	.00
15130.000	150.00	127.27	113.50	5040.91	5081.00	5159.00	5618.63	577.72	.00	.00	.00
15130.000	150.00	131.78	113.50	5035.27	5081.00	5159.00	5677.09	641.81	.00	.00	.00
15130.000	150.00	131.78	113.50	5035.27	5081.00	5159.00	5677.09	641.81	.00	.00	.00
15130.000	150.00	131.78	113.50	5035.27	5081.00	5159.00	5677.09	641.81	.00	.00	.00
15130.000	150.00	131.78	113.50	5035.27	5081.00	5159.00	5677.09	641.81	.00	.00	.00

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

C HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T1 FILENAME: HC.REC ENG: SKE EA: KHC & EKL & DLY COMM 2320
 T3 MULBERRY CREEK, CALDWELL CO., NC DATE: 2/07/86 100 YEAR EVENT

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	RVINS	q	WSEL	FO
0.	4.	0.	0.	.002400	.00	.0	.0	81.000	.000	

J2	HPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNTH	ITRACE
-1.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	39.000	1.000	51.000	55.000	26.000	56.000	13.000	14.000	15.000
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.16	IHLER	ICOPY
1.000	.000	.000

QT	NC	NH	NH
5.000	4529.000	8735.000	12846.000
.000	.000	.000	27820.000
6.000	1.000	4596.000	.500
5062.000	.150	5162.000	.098

ADD 1000 FEET TO OBTAIN TRUE ELEVATION

5955.

1ST. BRIDGE X-SECTION FOR BRIDGE # 1.

X1	X3	X4	GR	GR	GR	GR	GR
140.000	10.000	21.000	112.000	92.000	79.330	86.000	88.000
-22.000	.000	90.210	4104.500	4410.000	5020.000	5082.000	5150.000
.000	.000	4596.000	108.000	88.000	78.410	84.000	92.000
.000	.000	87.030	4114.500	4820.000	5030.000	5092.000	5162.000
.000	.000	104.000	104.000	85.010	79.180	80.000	80.000
.000	.000	4124.500	4124.500	5000.000	5040.000	5102.000	5102.000
.000	.000	100.000	100.000	80.320	81.450	80.000	80.000
.000	.000	4144.500	4144.500	5002.000	5041.000	5132.000	5132.000
.000	.000	96.000	96.000	79.560	83.910	84.000	84.000
.000	.000	86.000	86.000	5042.000	5042.000	5142.000	5142.000
.000	.000	85.010	85.010	5042.000	5042.000	5142.000	5142.000

96. 5170. 97. 5440. 96. 5705.

96. 5785. 100. 5955.
 96

NH	6.000	1.000	4596.000	.150	4856.000	.098	5000.000	.063	5042.000	.098
NH	5062.000	.150	5162.000	.000	.000	.000	.000	.000	.000	.000

BRIDGE # 1. DIRT ROAD SR1338.
 ELLC = 82.88 ETRD = 80. SKEW ANGLE = 90.

X1	141.000	26.000	5000.000	5042.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	85.010	86.000	.000
X4	2.000	90.210	4596.000	87.030	4856.000	.000	.000	.000	.000	.000
BT	26.000	4104.500	112.000	112.000	4114.500	108.000	108.000	4124.500	104.000	104.000
BT	.000	4144.500	100.000	100.000	4332.000	96.000	96.000	4410.000	92.000	92.000
BT	.000	4820.000	88.000	88.000	5000.000	85.010	85.010	5001.000	85.010	80.320
BT	.000	5001.010	85.790	80.320	5002.000	85.760	80.320	5010.000	85.550	82.880
BT	.000	5020.000	85.270	82.560	5030.000	84.990	82.240	5040.000	84.730	81.920
BT	.000	5040.010	84.730	79.180	5041.000	84.700	79.180	5041.010	83.910	79.180
BT	.000	5042.000	83.910	83.910	5062.000	86.000	86.000	5092.000	84.000	84.000
BT	.000	5102.000	80.000	80.000	5132.000	80.000	80.000	5142.000	84.000	84.000
BT	.000	5150.000	88.000	88.000	5162.000	92.000	92.000	.000	.000	.000
GR	112.000	4104.500	108.000	4114.500	104.000	4124.500	100.000	4144.500	96.000	4332.000
GR	92.000	4410.000	88.000	4820.000	85.010	5000.000	80.320	5001.000	80.320	5001.010
GR	80.320	5002.000	79.560	5010.000	79.330	5020.000	78.410	5030.000	79.180	5040.000
GR	79.180	5040.010	79.180	5041.000	79.180	5041.010	83.910	5042.000	86.000	5062.000
GR	84.000	5092.000	80.000	5102.000	80.000	5132.000	84.000	5142.000	88.000	5150.000
GR	92.000	5162.000	.000	.000	.000	.000	.000	.000	.000	.000

31.

31.

→ 5170. 96. 96.
 BT5440. 97. 97.
 5705. 96. 96.
 5785. 96. 96
 5955. 100. 100.

NH	6.000	1.000	4596.000	.150	4856.000	.098	5000.000	.063	5042.000	.098
NH	5062.000	.170	5162.000	.000	.000	.000	.000	.000	.000	.000
X1	159.000	.000	.000	.000	18.000	18.000	18.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000

NH	6.000	1.000	4596.000	.150	4856.000	.098	5000.000	.063	5042.000	.098
NH	5062.000	.170	5162.000	.000	.000	.000	.000	.000	.000	.000
X1	160.000	22.000	5000.000	5042.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	85.010	86.000	.000
X4	2.000	90.210	4596.000	87.030	4856.000	.000	.000	.000	.000	.000
GR	112.000	4104.500	108.000	4114.500	104.000	4124.500	100.000	4144.500	96.000	4332.000
GR	92.000	4410.000	88.000	4820.000	85.010	5000.000	80.320	5002.000	79.560	5010.000
GR	79.330	5020.000	78.410	5030.000	79.180	5040.000	81.450	5041.000	83.910	5042.000
GR	86.000	5062.000	84.000	5092.000	80.000	5102.000	80.000	5132.000	84.000	5142.000
GR	88.000	5150.000	92.000	5162.000	.000	.000	.000	.000	.000	.000

LAST X-SECTION FOR BRIDGE # 1.

X1	197.000	.000	.000	.000	37.000	37.000	37.000	.000	.190	.000
X4	2.000	90.400	4596.000	87.220	4856.000	.000	.000	.000	.000	.000

10

96. 5170. 97. 5440. 96. 5705. 96. 5785. 100. 5955.
 96. 5170. 97. 5440. 96. 5705. 96. 5785. 100. 5955.
 96. 5170. 97. 5440. 96. 5705. 96. 5785. 100. 5955.

Handwritten signature and scribbles

112-4415

112-4415
*5625

GR 112.5625

BT	.000	5052.000	112.510	93.790	5053.000	112.510	93.790	5053.010	112.510	103.610
BT	.000	5053.490	112.510	103.610	5053.500	112.510	106.110	5077.000	112.510	106.110
BT	.000	5090.000	112.510	106.100	5100.000	112.510	106.100	5111.500	112.510	106.100
BT	.000	5111.510	112.510	103.600	5111.990	112.510	89.970	5112.000	112.510	103.600
BT	.000	5113.000	112.510	89.970	5113.010	112.510	106.126	5113.490	112.510	106.150
BT	.000	5113.500	112.510	106.100	5119.000	112.510	96.700	5150.000	112.510	100.000
BT	.000	5143.000	112.510	106.230	5143.010	112.510	108.600	5213.000	112.510	104.000
BT	.000	5153.700	112.510	100.600	5153.710	112.510	108.600	5359.000	110.000	110.000
BT	.000	5219.000	112.000	105.000	5323.000	110.510	100.600	5000.000	110.000	5000.010
GR	110.000	4660.000	110.000	4800.000	104.000	4913.000	93.800	5045.000	93.790	5051.500
GR	100.000	5069.990	100.000	5010.000	98.800	5025.000	93.800	5045.000	93.790	5051.500
GR	93.790	5051.510	93.790	5051.990	93.790	5052.000	90.150	5053.000	89.810	5100.000
GR	93.790	5053.490	93.790	5053.500	90.760	5077.000	90.150	5090.000	89.970	5100.000
GR	89.970	5111.530	89.970	5111.510	89.970	5111.990	89.970	5112.000	97.180	5113.000
GR	89.970	5113.010	89.970	5113.490	89.970	5113.500	90.760	5119.000	97.180	5125.000
GR	96.700	5143.000	96.700	5143.010	100.000	5150.000	100.600	5153.700	100.600	5153.710
GR	104.000	5213.000	105.000	5219.000	108.000	5323.000	110.000	5359.000	.000	.000
NH	3.000	.150	5000.000	.063	5125.000	.170	5359.000	.000	.000	.000
X1	4393.800	.000	.000	.000	27.600	27.600	27.600	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
NH	3.000	.170	5000.000	.063	5125.000	.170	5359.000	.000	.000	.000
X1	4394.800	.180	5000.000	5125.000	1.000	1.000	5359.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
GR	110.000	4660.000	110.000	4800.000	104.000	4913.000	100.600	5000.000	110.000	5010.000
GR	98.800	5025.000	94.000	5050.000	90.760	5077.000	90.150	5090.000	89.810	5100.000
GR	89.970	5112.000	90.760	5119.000	97.200	5125.000	97.400	5143.000	100.000	5150.000
GR	105.000	5219.000	108.000	5323.000	110.000	5359.000	.000	.000	.000	.000
NH	3.000	.170	5000.000	.063	5125.000	.170	5359.000	.000	.000	.000

LAST X-SECTION FOR BRIDGE # 2.

X-SECTION FOR #3.

Handwritten notes and scribbles at bottom left

QT	5.000	4368.000	8455.000	12457.000	27122.000	5805.000	.000	.000	.000	.000
NH	6.000	1.000	5118.500	.113	5130.000	.061	5210.000	.113	5710.000	.170
NH	6338.500	1.000	6573.000	.000	.000	.000	.000	.000	.000	.000

X-SECTION FOR MC.

X1	8430.000	35.000	5130.000	5210.000	1970.000	1930.000	2110.000	.000	.000	.000
X4	2.000	107.210	5118.500	120.410	6338.500	.000	.000	.000	.000	.000
GR	140.000	5000.000	137.000	5010.000	120.000	5040.000	116.000	5055.000	112.000	5070.000
GR	108.000	5085.000	106.000	5095.000	107.800	5130.000	103.000	5140.000	102.000	5144.000
GR	101.000	5145.000	100.700	5150.000	102.000	5160.000	101.300	5170.000	100.400	5180.000
GR	100.500	5190.000	101.000	5192.000	102.900	5195.000	104.000	5200.000	108.000	5210.000
GR	107.000	5260.000	108.000	5475.000	108.000	5570.000	110.000	5710.000	112.000	5795.000
GR	116.000	5930.000	120.000	6045.000	124.000	6150.000	120.000	6360.000	124.000	6385.000
GR	134.000	6405.000	134.000	6420.000	136.000	6495.000	139.000	6535.000	140.000	6573.000
NH	7.000	1.000	4594.500	.200	4932.000	.113	5000.010	.061	5044.000	.113
NH	5272.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 3.
ELLCC = 107.98 ETRD = 109.57 SKEW ANGLE = 80.

X1	10692.000	32.000	5000.010	5044.000	2121.600	2301.600	2261.600	.000	-.210	.000
X4	2.000	117.870	4932.000	115.790	5272.000	.000	.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	108.580	5000.010	107.980	5001.010
GR	105.790	5002.010	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000
GR	103.490	5022.000	103.490	5022.010	103.900	5029.000	103.930	5030.000	104.800	5039.000
GR	104.850	5040.000	105.790	5042.590	108.050	5044.000	111.430	5050.000	112.000	5075.300
GR	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600	132.000	5769.100
GR	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	7.000	1.000	4594.500	.200	4932.000	.113	5000.010	.060	5044.000	.113
NH	5272.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000
X1	10853.000	.000	.000	.000	161.400	161.400	161.400	.000	.210	.000
X3	10.000	.000	.000	.000	.000	.000	.000	109.650	109.760	.000
X4	2.000	118.080	4594.500	116.000	5272.000	.000	.000	.000	.000	.000
NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.000	.060	5045.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000

BRIDGE # 3, PRIVATE BRIDGE.

X1	10854.000	38.000	5000.000	5045.000	1.000	1.000	1.000	.000	.000	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000
BT	-35.000	4382.200	140.000	140.000	4482.000	136.000	136.000	4594.500	132.000	132.000
BT	.000	4707.000	128.000	128.000	4830.000	124.000	124.000	4920.000	120.000	120.000
BT	.000	4945.000	116.000	116.000	4985.000	112.000	112.000	4990.000	111.450	111.450
BT	.000	5000.000	109.900	109.900	5000.010	109.900	108.580	5001.000	109.900	108.580
BT	.000	5001.010	110.160	107.980	5002.000	110.160	107.980	5019.990	109.590	107.270
BT	.000	5020.000	109.590	103.490	5021.000	109.570	103.490	5022.000	109.600	103.490
BT	.000	5022.010	109.600	107.270	5030.000	109.840	107.550	5040.000	110.150	107.950

BT	.000	5042.600	110.230	108.050	5044.000	110.270	108.050	5044.010	109.860	109.040
BT	.000	5044.990	109.860	109.040	5045.000	109.860	109.860	5050.000	111.430	111.430
BT	.000	5075.300	112.000	112.000	5255.000	116.000	116.000	5545.000	120.000	120.000
BT	.000	5637.800	124.000	124.000	5656.600	128.000	128.000	5769.100	132.000	132.000
BT	.000	5800.400	136.000	136.000	5825.400	140.000	140.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	111.450	4990.000	109.900	5000.000
GR	108.580	5000.010	108.580	5001.000	107.980	5001.010	107.980	5002.000	105.790	5002.010
GR	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000	103.490	5022.000
GR	103.490	5022.010	103.930	5030.000	104.850	5040.000	105.790	5042.590	108.050	5042.600
GR	108.050	5044.000	109.040	5044.010	109.040	5044.990	109.860	5045.000	111.430	5050.000
GR	112.000	5075.300	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600
GR	132.000	5769.100	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000

NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.000	.060	5045.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000
X1	10866.000	.000	.000	.000	12.000	12.000	12.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000

NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.010	.060	5050.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000
X1	10867.000	32.000	5000.010	5050.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	109.650	109.760	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	108.580	5000.010	107.980	5001.010
GR	105.790	5002.010	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000
GR	103.490	5022.000	103.490	5022.010	103.900	5029.000	103.930	5030.000	104.800	5039.000
GR	104.850	5040.000	105.790	5042.590	108.050	5044.000	111.430	5050.000	112.000	5075.300
GR	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600	132.000	5769.100
GR	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000	.000	.000

NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.010	.060	5050.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000

LAST X-SECTION FOR BRIDGE # 3.

X1	10907.000	.000	.000	.000	39.600	39.600	39.600	.000	.250	.000
X4	2.000	133.940	4547.000	116.620	5282.000	.000	.000	.000	.000	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	5.000	.113	5000.000	.062	5023.750	.113	5136.750	.170	5578.000	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 4.
ELLIC = 109.26 ETRD = 111.31 SKEW ANGLE = 85.

X1	11793.000	25.000	5000.000	5023.750	896.400	861.400	885.400	.000	.030	.000
X4	1.000	119.810	5578.000	.000	.000	.000	.000	.000	.000	.000
GR	132.000	4826.000	128.000	4849.000	124.000	4880.000	120.000	4921.000	116.000	4946.000
GR	113.000	4974.000	112.720	4984.000	110.390	5000.000	110.090	5001.000	108.580	5002.000
GR	106.000	5003.000	103.860	5005.700	105.460	5010.600	105.690	5011.300	105.770	5012.000
GR	107.000	5023.000	109.260	5023.500	111.080	5023.750	111.380	5032.850	112.000	5065.750

THIS RUN EXECUTED 02-07-86 18:12:57

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

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

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT

SECHO	XLCH	CWSEL	DIFWSX	VLOB	VCH	VKOS	QLOB	QCH	QROB	Q	QWEIR	QPR
140.000	.00	94.25	.00	1.79	6.31	2.54	5750.25	3907.29	3188.46	12846.00	.00	.00
*1.000	1.00	94.34	.09	1.74	4.53	3.87	5698.91	2258.19	4888.90	12846.00	.00	.00
159.000	18.00	94.46	.12	1.78	4.63	3.57	5955.92	2326.86	4563.23	12845.00	.00	.00
160.000	1.00	94.42	-.04	1.79	6.31	2.31	5953.11	3954.09	2938.79	12846.00	.00	.00
197.000	37.00	94.50	.08	1.77	6.61	2.37	5750.50	4111.86	2983.64	12846.00	.00	.00
2210.000	2013.00	99.03	4.52	1.91	5.75	1.47	6617.04	5418.34	810.62	12844.00	.00	.00
3782.200	1572.20	103.18	4.15	1.98	6.14	2.19	1693.19	9641.29	1431.52	12766.00	.00	.00
4365.200	583.00	104.88	1.70	.00	7.71	.00	.00	12766.00	.00	12766.00	.00	.00
4366.200	1.00	104.64	-.24	.00	9.72	3.10	.00	12336.47	429.53	12766.00	.00	.00
4393.800	27.60	104.96	.32	.00	9.44	3.04	.00	12327.27	438.72	12766.00	.00	.00
4394.800	1.00	104.96	.01	.00	9.31	.00	.00	12766.00	.00	12766.00	.00	.00
4539.800	145.00	106.38	1.42	1.24	7.49	1.63	482.44	11469.90	813.66	12766.00	.00	.00
6320.000	1780.20	109.89	3.51	1.22	4.72	1.34	3600.48	8123.75	1041.77	12766.00	.00	.00
8430.000	2110.00	113.72	3.84	.67	6.27	2.10	244.35	5641.58	6571.07	12457.00	.00	.00
10692.000	2261.60	120.44	6.71	2.76	8.49	2.19	1355.56	6080.04	5021.40	12457.00	.00	.00
10853.000	161.40	121.02	.59	2.40	8.06	2.07	1387.48	5910.86	5158.66	12457.00	.00	.00
10854.000	1.00	121.42	.40	3.43	5.32	2.66	1928.17	3473.18	7055.65	12457.00	.00	.00

SECNO	XLCH	CWSEL	DIFWSX	VLOB	VCH	VROB	QLOS	QCH	QRCB	Q	QWEIR	QPR
10866.000	12.00	121.49	.07	3.39	5.26	2.63	1930.73	3451.82	7074.45	12457.00	.00	.00
10867.000	1.00	121.38	-.12	2.35	7.40	1.97	1331.71	6060.85	5064.44	12457.00	.00	.00
10907.000	39.60	121.46	.09	2.41	7.58	2.01	1324.21	6142.71	4990.07	12457.00	.00	.00
11793.000	885.40	123.91	2.45	2.67	6.57	1.76	2140.37	2764.17	7552.46	12457.00	.00	.00
11873.000	80.20	124.11	.20	2.57	6.32	1.74	2112.90	2682.74	7661.36	12457.00	.00	.00
11874.000	1.00	124.19	.08	3.52	4.57	1.75	2927.94	1715.61	7813.45	12457.00	.00	.00
11886.000	11.60	124.24	.05	3.50	4.55	1.74	2929.56	1710.32	7817.12	12457.00	.00	.00
11887.000	1.00	124.21	-.02	2.54	6.22	1.71	2116.53	2658.57	7681.90	12457.00	.00	.00
11906.000	19.30	124.25	.04	2.56	6.28	1.73	2106.12	2670.74	7680.14	12457.00	.00	.00
12870.000	963.90	126.22	1.97	1.78	6.22	2.08	4096.33	6647.34	1713.33	12457.00	.00	.00
14980.000	2110.00	130.66	4.44	2.28	5.75	2.00	799.07	6102.32	5555.61	12457.00	.00	.00
15280.000	300.00	131.20	.54	1.37	6.74	2.05	3103.91	5212.98	4140.11	12457.00	.00	.00

THIS RUN EXECUTED 02-15-86 12:58:02

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 MULBERRY CREEK, CALDWELL CO., NC DATE: 2/14/86 100% EVEN

J1	ICHECK	INQ	MINV	IDIR	STRT	METRIC	HYINS	Q	EL	FQ
	0.	7.	0.	0.	.000000	.00	.0	0.		.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CLIT	ITRACE
	15.000	.000	-1.000	.000	.000	.000	.000	.000		.000

IHLQ = 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 MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

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

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT

SECNO	CMSL	VCH
40.000	95.30	6.59
40.000	95.30	7.43
141.000	95.47	5.17
141.000	95.43	6.41
159.000	95.59	5.09
159.000	95.62	6.25
160.000	95.54	6.39
160.000	95.58	7.19
197.000	95.60	6.73
197.000	95.67	7.58
2210.000	99.49	5.25
2210.000	100.15	5.59
3782.200	103.15	6.17
3782.200	103.89	6.39
4365.200	104.70	5.81
4365.200	105.44	6.47
4366.200	104.22	9.43
4366.200	105.15	8.66
4393.800	104.55	9.14
4393.800	105.38	8.49
4394.800	104.99	8.05
4394.800	105.54	8.02

02-15-86 12:56:54

SECHO	CNSEL	VCH
4539.800	105.84	7.44
4539.800	106.34	7.57
6320.000	109.63	4.88
6320.000	110.29	5.12
8430.000	113.65	6.34
8430.000	114.49	6.44
10692.000	120.45	8.47
10692.000	121.28	8.57
10853.000	121.04	8.05
10853.000	121.81	8.33
10854.000	121.43	5.31
10854.000	122.22	5.47
10866.000	121.50	5.25
10866.000	122.29	5.43
10867.000	121.39	7.40
10867.000	122.17	7.68
10907.000	121.47	7.57
10907.000	122.26	7.81
11793.000	123.91	6.57
11793.000	124.73	6.69
11873.000	124.11	6.31
11873.000	124.91	6.69
11874.000	124.19	4.57
11874.000	124.94	5.43
11886.000	124.24	4.55
11886.000	125.00	5.41
11887.000	124.22	6.22
11887.000	125.00	6.63
11906.000	124.25	6.28
11906.000	125.06	6.48
12870.000	126.22	6.22
12870.000	127.01	6.37
14980.000	130.66	5.75
14980.000	131.46	5.96

02-15-86 12:56:54

PAGE 6

SECNO	CWSEL	VCH
15280.000	131.20	6.74
15280.000	131.98	6.99

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT TABLE 110

SECTO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
140.000	95.30	2.30	95.57	823.01	7316.45	4376.59	1152.96	.00	.00	5000.00	5042.00	.00
140.000	95.30	.00	95.71	390.00	7348.92	4933.64	563.43	390.00	4670.00	5000.00	5042.00	5060.00
141.000	95.47	.00	95.61	826.65	8066.85	2820.95	1958.20	.00	.00	5000.00	5042.00	.00
141.000	95.43	-.04	95.74	390.00	8336.09	3483.68	1026.23	390.00	4670.00	5000.00	5042.00	5060.00
159.000	95.59	.00	95.72	829.15	8097.87	2799.84	1948.28	.00	.00	5000.00	5042.00	.00
159.000	95.62	.03	95.91	390.00	8378.82	3450.03	1017.15	390.00	4670.00	5000.00	5042.00	5060.00
160.000	95.54	.00	95.78	828.01	7375.68	4303.32	1167.00	.00	.00	5000.00	5042.00	.00
160.000	95.58	.05	95.96	390.00	7427.90	4858.70	559.41	390.00	4670.00	5000.00	5042.00	5060.00
197.000	95.60	.00	95.88	825.41	7198.93	4502.14	1144.92	.00	.00	5000.00	5042.00	.00
197.000	95.67	.06	96.09	390.00	7228.70	5087.36	529.94	390.00	4670.00	5000.00	5042.00	5060.00
2210.000	99.49	.00	99.69	1215.01	6775.28	5157.51	913.20	.00	.00	6561.00	6646.00	.00
2210.000	100.15	.66	100.42	513.59	7033.71	5812.29	.00	.17	6132.42	6561.00	6646.00	6646.00
3782.200	103.15	.00	103.61	519.64	1686.85	9651.83	1427.32	.00	.00	5000.00	5140.00	.00
3782.200	103.89	.74	104.43	265.00	1274.72	10657.40	833.88	215.00	4920.00	5000.00	5140.00	5185.00
4365.200	104.70	.00	105.10	554.61	1797.74	9469.35	1498.91	.00	.00	5000.00	5140.00	.00
4365.200	105.44	.74	106.02	225.00	1054.78	11208.41	502.82	225.00	4940.00	5000.00	5140.00	5165.00
4366.200	104.22	.00	105.60	305.41	.00	12766.00	.00	.00	.00	5000.00	5153.71	.00
4366.200	105.15	.93	106.31	153.71	.00	12766.00	.00	.04	5000.00	5000.00	5153.71	5153.71
4393.800	104.55	.00	105.84	313.56	.00	12766.00	.00	.00	.00	5000.00	5153.71	.00
4393.800	105.38	.83	106.50	153.71	.00	12766.00	.00	.05	5000.00	5000.00	5153.71	5153.71
4394.800	104.99	.00	105.95	324.62	288.97	12187.61	289.42	.00	.00	5000.00	5143.00	.00
4394.800	105.54	.55	106.54	143.00	.00	12766.00	.00	.06	5000.00	5000.00	5143.00	5143.00
4539.800	105.84	.00	106.65	362.55	386.66	12014.14	365.19	.00	.00	5000.00	5143.00	.00
4539.800	106.34	.50	107.23	143.00	.00	12766.00	.00	.07	5000.00	5000.00	5143.00	5143.00
6320.000	109.63	.00	109.88	771.40	3509.03	8251.60	1005.37	.00	.00	5528.00	5637.00	.00
6320.000	110.29	.66	110.59	408.79	3369.71	9018.24	378.05	.12	5252.62	5528.00	5637.00	5661.41
8430.000	113.65	.00	113.97	787.03	243.78	5671.46	6541.76	.00	.00	5130.00	5210.00	.00
8430.000	114.49	.84	114.86	436.82	.00	6190.43	6266.57	.16	5130.00	5130.00	5210.00	5566.82
10692.000	120.45	.00	121.04	654.93	1356.53	6070.50	5029.96	.00	.00	5000.01	5044.00	.00
10692.000	121.28	.83	121.93	320.00	688.74	6456.75	5311.51	320.00	4980.00	5000.01	5044.00	5300.00
10853.000	121.04	.00	121.55	705.83	1388.21	5905.35	5163.44	.00	.00	5000.01	5044.00	.00
10853.000	121.81	.78	122.42	320.00	682.04	6398.33	5376.63	320.00	4980.00	5000.01	5044.00	5300.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
10854.000	121.43	.00	121.64	690.53	1928.49	3470.48	7058.02	.00	.00	5000.00	5045.00	.00
10854.000	122.22	.79	122.52	320.00	1028.47	3770.64	7657.89	320.00	4980.00	5000.00	5045.00	5300.00
10866.000	121.50	.00	121.71	693.67	1931.04	3449.25	7076.71	.00	.00	5000.00	5045.00	.00
10866.000	122.29	.79	122.59	320.00	1027.48	3755.50	7674.02	320.00	4980.00	5000.00	5045.00	5300.00
10867.000	121.39	.00	121.83	688.37	1332.11	6056.51	5068.38	.00	.00	5000.01	5050.00	.00
10867.000	122.17	.79	122.71	320.00	670.85	6590.33	5195.82	320.00	4980.00	5000.01	5050.00	5300.00
10907.000	121.47	.00	121.95	680.89	1324.61	6138.40	4993.99	.00	.00	5000.01	5050.00	.00
10907.000	122.26	.79	122.82	320.00	671.41	6640.09	5145.50	320.00	4980.00	5000.01	5050.00	5300.00
11793.000	123.91	.00	124.11	883.78	2140.41	2763.47	7553.12	.00	.00	5000.00	5023.75	.00
11793.000	124.73	.82	124.96	510.00	1506.13	2947.25	8003.62	510.00	4958.00	5000.00	5023.75	5468.00
11873.000	124.11	.00	124.29	889.32	2112.96	2682.15	7661.89	.00	.00	5000.00	5023.75	.00
11873.000	124.91	.80	125.14	490.00	1245.95	2972.74	8238.31	490.00	4968.00	5000.00	5023.75	5458.00
11874.000	124.19	.00	124.31	891.25	2928.03	1715.29	7813.67	.00	.00	5000.00	5023.75	.00
11874.000	124.94	.75	125.15	392.00	1380.53	2134.66	8941.80	392.00	4980.00	5000.00	5023.75	5372.00
11886.000	124.24	.00	124.36	892.19	2929.66	1710.01	7817.33	.00	.00	5000.00	5023.75	.00
11886.000	125.00	.76	125.21	392.00	1379.49	2130.68	8946.83	392.00	4980.00	5000.00	5023.75	5372.00
11887.000	124.22	.00	124.39	891.76	2116.59	2657.97	7682.44	.00	.00	5000.00	5023.75	.00
11887.000	125.00	.78	125.22	490.00	1243.32	2956.89	8256.79	490.00	4968.00	5000.00	5023.75	5458.00
11906.000	124.25	.00	124.43	889.60	2106.18	2670.14	7680.68	.00	.00	5000.00	5023.75	.00
11906.000	125.06	.80	125.27	510.00	1478.95	2876.02	8102.03	510.00	4958.00	5000.00	5023.75	5468.00
12870.000	126.22	.00	126.57	754.97	4096.84	6646.81	1713.35	.00	.00	5700.00	5783.00	.00
12870.000	127.01	.78	127.42	445.00	4191.35	7336.44	929.21	445.00	5375.00	5700.00	5783.00	5820.00
14980.000	130.66	.00	130.95	630.63	799.07	6102.29	5555.64	.00	.00	5081.00	5159.00	.00
14980.000	131.46	.80	131.80	400.00	5.64	6698.08	5753.28	400.00	5080.00	5081.00	5159.00	5480.00
15280.000	131.20	.00	131.53	971.11	3103.93	5212.93	4140.14	.00	.00	4984.00	5032.00	.00
15280.000	131.98	.77	132.37	375.00	2776.79	5666.90	4013.32	375.00	4860.00	4984.00	5032.00	5235.00

02-15-86 12:56:54

FLOODWAY DATA, MULBERRY CREEK, CALDWELL
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
140.000	390.	3452.	3.7	95.3	95.3	.0
141.000	390.	3379.	3.8	95.5	95.5	.0
159.000	390.	3452.	3.7	95.6	95.6	.0
160.000	390.	3562.	3.6	95.5	95.5	.0
197.000	390.	3522.	3.6	95.7	95.6	.1
2210.000	514.	4138.	3.1	100.2	99.5	.7
3782.200	265.	2530.	5.0	103.8	103.1	.7
4365.200	225.	2367.	5.4	105.4	104.7	.7
4366.200	154.	1475.	8.7	105.1	104.2	.9
4393.800	154.	1504.	8.5	105.3	104.5	.8
4394.800	143.	1592.	8.0	105.6	105.0	.6
4539.800	143.	1687.	7.6	106.3	105.8	.5
6320.000	409.	4006.	3.2	110.3	109.6	.7
8430.000	437.	3410.	3.7	114.5	113.7	.8
10692.000	320.	2872.	4.3	121.3	120.5	.8
10853.000	320.	2977.	4.2	121.8	121.0	.8
10854.000	320.	2974.	4.2	122.2	121.4	.8
10866.000	320.	2996.	4.2	122.3	121.5	.8
10867.000	320.	3084.	4.0	122.2	121.4	.8
10907.000	320.	3033.	4.1	122.3	121.5	.8
11793.000	510.	4689.	2.7	124.7	123.9	.8
11873.000	490.	4600.	2.7	124.9	124.1	.8
11874.000	392.	3859.	3.2	124.9	124.2	.7
11886.000	392.	3876.	3.2	125.0	124.2	.8
11887.000	490.	4643.	2.7	125.0	124.2	.8
11906.000	510.	4790.	2.6	125.1	124.3	.8
12870.000	445.	3476.	3.6	127.0	126.2	.8
14980.000	400.	3552.	3.5	131.5	130.7	.8
15280.000	375.	3543.	3.5	132.0	131.2	.8

THIS RUN EXECUTED 01-31-86 17:51:40

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

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

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT

SEENO	XLCH	CWSEL	DIFWSX	VLOB	VCH	VROB	QLOB	QCH	QROB	Q	QWEIR	QPR
140.000	.00	92.48	.00	2.34	8.24	3.26	4961.41	4493.37	3391.21	12846.00	.00	.00
141.000	1.00	92.68	.19	2.21	5.91	5.05	4942.61	2528.04	5375.35	12846.00	.00	.00
159.000	18.00	92.92	.25	2.21	5.89	4.55	5283.20	2583.51	4979.29	12846.00	.00	.00
160.000	1.00	92.86	-.06	2.25	7.95	2.85	5288.48	4455.04	3098.48	12846.00	.00	.00
197.000	37.00	93.01	.15	2.19	8.25	2.90	5092.68	4613.56	3139.77	12846.00	.00	.00
2210.000	2013.00	99.27	6.27	1.82	5.47	1.42	6704.44	5274.90	866.66	12846.00	.00	.00
3782.200	1572.20	103.05	3.77	2.02	6.25	2.21	1662.54	9692.36	1411.09	12766.00	.00	.00
4365.200	583.00	104.82	1.77	.00	7.75	.00	.00	12766.00	.00	12766.00	.00	.00
4366.200	1.00	104.57	-.25	.00	9.77	3.11	.00	12338.37	427.63	12766.00	.00	.00
4393.800	27.60	104.90	.33	.00	9.49	3.05	.00	12328.85	437.15	12766.00	.00	.00
4394.800	1.00	104.91	.01	.00	9.35	.00	.00	12766.00	.00	12766.00	.00	.00
4539.800	145.00	106.34	1.43	1.24	7.52	1.64	476.89	11480.37	808.74	12766.00	.00	.00
6320.000	1780.20	109.90	3.55	1.22	4.72	1.34	3602.89	8120.36	1042.75	12766.00	.00	.00
8430.000	2110.00	113.79	3.89	.66	6.19	2.08	244.97	5608.41	6603.62	12457.00	.00	.00
10692.000	2241.60	120.37	6.58	2.79	8.58	2.21	1351.73	6117.47	4987.80	12457.00	.00	.00
10853.000	161.40	120.98	.61	2.42	8.12	2.09	1384.04	5937.06	5135.90	12457.00	.00	.00
10854.000	1.00	121.38	.41	3.46	5.35	2.68	1926.67	3485.90	7044.43	12457.00	.00	.00

SECHO	XLCH	CVSEL	DIFWSX	VLOP	VCH	VROB	QLOB	QCH	QROB	Q	QWEIR	QPR
10866.000	12.00	121.45	.07	3.42	5.29	2.65	1929.27	3464.01	7063.72	12457.00	.00	.00
10867.000	1.00	121.34	-.12	2.36	7.45	1.98	1329.82	6081.35	5045.83	12457.00	.00	.00
10907.000	39.60	121.42	.09	2.43	7.62	2.12	1322.37	6163.06	4971.57	12457.00	.00	.00
11793.000	933.00	124.00	2.58	2.64	6.48	1.74	2142.15	2741.26	7573.59	12457.00	.00	.00
11873.000	80.20	124.19	.19	2.54	6.23	1.72	2115.02	2660.80	7681.18	12457.00	.00	.00
11874.000	1.00	124.27	.08	3.48	4.52	1.72	2931.16	1705.16	7820.68	12457.00	.00	.00
11886.000	11.60	124.32	.05	3.47	4.50	1.71	2932.75	1700.11	7824.14	12457.00	.00	.00
11887.000	1.00	124.29	-.02	2.51	6.15	1.69	2118.43	2639.29	7699.28	12457.00	.00	.00
11906.000	19.30	124.33	.04	2.51	6.14	1.69	2118.60	2637.60	7700.80	12457.00	.00	.00
14980.000	3074.00	128.41	4.07	1.44	4.49	1.55	5095.24	5618.26	1743.50	12457.00	.00	.00
15130.000	150.00	128.51	.11	3.02	7.89	2.72	778.19	7052.28	4626.53	12457.00	.00	.00

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT

SECNO	XLCH	CVSEL	ELMIN	SSTA	STCHL	STCHR	ENDST	TOPWID	STENCL	STENCR	PERENC
140.000	.00	92.48	78.41	4400.62	5000.00	5042.00	5162.00	761.38	.00	.00	.00
141.000	1.00	92.68	78.41	4396.82	5000.00	5042.00	5162.00	765.18	.00	.00	.00
159.000	18.00	92.92	78.41	4391.99	5000.00	5042.00	5162.00	770.01	.00	.00	.00
160.000	1.00	92.86	78.41	4393.23	5000.00	5042.00	5162.00	768.77	.00	.00	.00
197.000	37.00	93.01	78.60	4394.06	5000.00	5042.00	5162.00	767.94	.00	.00	.00
2210.000	2013.00	99.27	86.00	5566.81	6561.00	6646.00	6876.75	1194.19	.00	.00	.00
3782.200	1572.20	103.05	88.72	4766.44	5000.00	5140.00	5278.46	512.02	.00	.00	.00
4365.200	583.00	104.82	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4366.200	1.00	104.57	89.81	4972.21	5000.00	5125.00	5216.44	314.23	.00	.00	.00
4393.800	27.60	104.90	89.81	4896.00	5000.00	5125.00	5218.42	322.41	.00	.00	.00
4394.800	1.00	104.91	89.81	5000.00	5000.00	5125.00	5125.00	125.00	.00	.00	.00
4539.800	145.00	106.34	89.95	4871.49	5000.00	5125.00	5260.73	389.24	.00	.00	.00
6320.000	1780.20	109.90	91.70	5047.89	5528.00	5637.00	5827.84	779.95	.00	.00	.00
8430.000	2110.00	113.79	100.40	5063.30	5130.00	5210.00	5855.29	791.99	.00	.00	.00
10692.000	2241.60	120.37	103.28	4907.14	5000.01	5044.00	5558.26	651.11	.00	.00	.00
10853.000	161.40	120.98	103.49	4594.50	5000.01	5044.00	5567.64	702.43	.00	.00	.00
10854.000	1.00	121.38	103.49	4888.85	5000.00	5045.00	5577.12	688.27	.00	.00	.00
10866.000	12.00	121.45	103.49	4887.27	5000.00	5045.00	5578.75	691.48	.00	.00	.00
10867.000	1.00	121.34	103.49	4889.93	5000.01	5050.00	5576.01	686.08	.00	.00	.00
10907.000	39.60	121.42	103.74	4893.57	5000.01	5050.00	5572.25	678.68	.00	.00	.00
11793.000	933.00	124.00	103.83	4879.75	5000.00	5023.75	5767.25	887.50	.00	.00	.00
11873.000	80.20	124.19	103.86	4878.47	5000.00	5023.75	5769.82	891.35	.00	.00	.00
11874.000	1.00	124.27	103.86	4877.89	5000.00	5023.75	5770.96	893.07	.00	.00	.00
11886.000	11.60	124.32	103.86	4877.59	5000.00	5023.75	5771.58	893.99	.00	.00	.00

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SECNO	XLCH	CWSEL	ELMIN	SSTA	STCHL	STCHR	ENDST	TOPWID	STENCL	STENCR	PERENC
11887.000	1.00	124.29	103.86	4877.73	5000.00	5023.75	5771.30	893.57	.00	.00	.00
11906.000	19.30	124.33	103.90	4877.67	5000.00	5023.75	5771.41	893.74	.00	.00	.00
14980.000	3074.00	128.41	109.00	5109.77	5700.00	5783.00	5924.30	814.53	.00	.00	.00
15130.000	150.00	128.51	113.50	5039.36	5081.00	5159.00	5648.48	609.12	.00	.00	.00

GR120.	5000.	112.	5050.	108.	5080.	112.	5100.	5190.
GR172.	5265.	110.	5300.	108.	5335.	107.	5395.	5455.
GR104.	5500.	102.	5535.	100.	5565.	96.	5575.	5585.
GR96.	5595.	100.	5610.	100.	5635.	100.	5665.	5745.
GR98.	5825.	98.	5915.	97.	6000.	96.	6075.	6100.
GR92.	6135.	88.	6140.	86.6	6150.	88.	6155.	6165.
GR93.	6190.	93.	6285.	94.	6390.	94.	6475.	6525.
GR92.	6561.	89.	6566.	87.	6567.	86.	6571.	6581.
GR86.5	6591.	86.5	6601.	87.	6607.	88.	6609.	6631.
GR92.	6646.	94.	6666.	96.	6696.	97.	6766.	6826.
GR98.	6864.	100.	6884.	102.	6904.	104.	6922.	6957.
GR108.	6987.	112.	7007.					
Q15.0	4496.	8677.	12766.	27694.	5967.			
MH6.0	1.00	4698.	0.15	4888.	0.108	5000.	0.063	5140.
MH5323.	0.18	5359.						0.108
JX13782.224.	5000.		5140.00	1572.21	1572.21	1572.21		
X43.0	104.11	4698.	97.91	4888.	106.9	5323.		
GR107.	4600.	106.3	4640.	106.	4660.	103.	4840.	98.00
GR97.00	5010.	96.00	5025.	93.80	5045.	90.76	5077.	90.15
GR89.81	5100.	89.97	5111.5	89.97	5111.51	89.97	5111.99	89.97
GR89.97	5113.	89.97	5113.01	89.97	5113.49	89.97	5113.5	90.76
GR96.7	5140.	97.3	5150.	99.	5219.	111.	5359.	5119.
MC			0.3	0.5				
MH6.0	1.0	4698.	0.15	4888.	0.108	5000.	0.063	5150.
MH5323.	0.17	5359.						0.108
X14365.21			583.7	583.7	583.7			
X310.								
X43.0	105.2	4698.	99.	4888.	107.9	5323.		
MH3.0	0.15	5000.	0.063	5125.00	0.17	5359.		
X14366.239			5125.00	1.	1.			
BT-39.	4660.	110.	110.	4800.	110.	110.0	4913.	109.84
BT	5000.	109.65	100.6	5000.01	112.51	100.60	5009.99	112.51
BT	5010.	112.51	106.25	5025.	112.51	106.2	5045.	112.51
BT	5051.5	112.51	106.11	5051.51	112.51	103.61	5057.99	112.51
BT	5052.	112.51	93.79	5053.	112.51	93.79	5053.01	112.51
BT	5053.49	112.51	103.61	5053.5	112.51	106.11	5077.	112.51
BT	5090.	112.51	106.1	5100.	112.51	106.1	5111.5	112.51
BT	5111.51	112.51	103.60	5111.99	112.51	103.6	5112.	112.51
BT	5113.	112.51	89.97	5113.01	112.51	89.97	5113.49	112.51
BT	5113.5	112.51	106.1	5119.	112.51	106.12	5125.	112.51
BT	5143.	112.51	106.23	5143.01	112.51	96.70	5150.	112.51
BT	5153.7	112.51	100.60	5153.71	109.76	100.60	5213.	111.79
BT	5219.	112.	105.00	5323.	110.51	108.00	5359.	110.0
GR110.	4660.	110.0	4800.0	104.	4913.	100.6	5000.	109.6
GR100.	5009.99	100.	5010.	98.8	5025.	93.80	5045.	93.79
GR93.79	5051.51	93.79	5051.99	93.79	5052.	93.79	5053.	93.79
GR93.79	5053.49	93.79	5053.5	90.76	5077.	90.15	5090.	89.81
GR89.97	5111.5	89.97	5111.51	89.97	5111.99	89.97	5112.	89.97
GR89.97	5113.01	89.97	5113.49	89.97	5113.5	90.76	5119.	97.18
GR96.7	5143.	96.700	5143.01	100.00	5150.	100.60	5153.7	100.6
GR104.	5213.	105.00	5219.	108.00	5323.	110.0	5359.0	
MH3.0	0.15	5000.	0.063	5125.00	0.17	5359.1		
X14393.8			27.6	27.6	27.6			
X2								
MH3.0	0.17	5000.	0.063	5125.00	0.17	5359.		
X14394.818.			5125.00	1.7	1.7			
X310.								
GR110.	4660.	110.0	4800.	104.	4913.	100.6	5000.	110.
GR98.8	5025.	94.	5050.	90.76	5077.	90.15	5090.	89.81
GR89.97	5112.	90.76	5119.	97.2	5125.	97.4	5143.	100.
GR105.0	5219.	108.0	5323.	110.0	5359.			
MH3.0	0.17	5000.	0.063	5125.00	0.17.	5359.		

X111886:
 X2
 X41.0 116.14 5153.
 NH5.0 0.113 5000.
 NH5887.8
 X111887.25. 5000.
 X310.
 X41.0 116.14 5153.
 GR132. 4826.
 GR113. 4974.
 GR106. 5003.
 GR107. 5023.
 GR116. 5136.75 120.
 NH5.0 0.113 5000.
 NH5887.8
 X111906.
 X41.0 116.18 5153.
 MCO.1 0.1 0.05
 MH7.0 1.0 5035.
 NH5848. 0.17 5908.
 X112870.29. 5700.
 X41.0 121.29 5376.5
 GR150. 5000. 148.
 GR136. 5070. 132.
 GR121. 5477. 121.
 GR112. 5734. 109.
 GR116. 5783. 120.
 GR140. 5945. 144.
 NH6.0 1.0 5045.
 NH5746. 1.0 5779.
 X114980.33. 5081.
 X41.0 127. 5527.
 GR155. 5000. 148.
 GR121. 5081. 118.
 GR114. 5110. 115.
 GR124. 5159. 119.
 GR125. 5294. 127.
 GR134. 5704. 136.
 GR151. 5756. 156.
 NH5.0 1. 4746.
 NH5433.
 X115280.21. 4984.
 GR136. 4151. 132.
 GR129. 4766. 128.
 GR115. 5000. 114.14
 GR120. 5032. 124.
 GR140. 5433.
 EJ

11.6 11.6 11.6 11.6
 0.062 5023.75 0.113 5153. 0.17 5596.75 1.0
 5023.75 1.0 1.0 1.0 110.39 111.08
 4849. 124. 4880. 120. 4921. 116. 4946.
 4984. 110.39 5000. 110.09 5001. 108.58 5002.
 5005.7 105.46 5010.6 105.69 5011.3 105.77 5012.
 5023.5 111.08 5023.75 111.38 5032.85 112. 5065.75
 5596.75 124. 5766.75 128. 5828.75 132. 5887.8
 0.062 5023.75 0.113 5153. 0.17 5596.75 1.0
 19.3 19.3 19.3
 0.1 0.3 5376.5 0.113 5700. 0.062 5783. 0.113
 6046.
 5783. 964. 964. 964. 963.9
 1039.9 853.9
 5005. 144. 5025. 143. 5035. 140. 5052.
 5090. 128. 5112. 124. 5232. 121. 5392.
 5645. 120. 5700. 118. 5718. 116. 5726.
 5752. 109. 5770. 112. 5775. 114. 5778.
 5848. 121. 5873. 124. 5908. 126. 5920.
 5995. 150. 6013. 169. 6046.
 0.113 5081. 0.062 5159. 0.113 5527. 0.15
 1900. 2130.
 5159. 2110. 2110.
 140. 5025. 124. 5045. 122. 5050.
 5083. 115. 5086. 113.5 5090. 113.8 5100.
 5118. 117. 5122. 117. 5131. 122.4 5152.
 5199. 119. 5244. 120. 5264. 124. 5284.
 5424. 127. 5609. 128. 5644. 132. 5679.
 5714. 140. 5719. 152. 5734. 152. 5746.
 5764. 168. 5779. 168. 5779.
 4984. 0.62 5032. 0.113 5350. 1.0
 450. 200.
 5032. 300. 300.
 4351. 132. 4386. 128. 4531. 128. 4746.
 4796. 124. 4921. 120. 4976. 116. 4984.
 5004. 114.44 5014. 114.64 5024. 115. 5028.
 5110. 128. 5350. 132. 5395. 136. 5425.

14
 0.04

ER

THIS RUN EXECUTED 01-31-86 15:43:05

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

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

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT

SECTNO	XLCH	CWSEL	DIFWSX	VLOB	VCH	VROB	QLOB	QCH	QROB	Q	QWEIR	QPR
140.000	.00	89.45	.00	1.97	6.92	2.61	1321.59	2892.03	1796.39	6010.00	.00	.00
141.000	1.00	89.61	.16	1.74	5.21	4.53	1256.08	1558.84	3195.08	6010.00	.00	.00
159.000	18.00	89.91	.30	1.73	5.13	4.01	1442.08	1602.11	2965.82	6010.00	.00	.00
160.000	1.00	89.87	-.05	1.87	6.54	2.24	1520.74	2845.49	1643.78	6010.00	.00	.00
197.000	37.00	90.01	.14	1.78	5.77	2.28	1415.86	2932.49	1661.65	6010.00	.00	.00
2210.000	2013.00	96.44	6.43	1.47	4.70	1.21	2464.89	3491.56	143.55	6010.00	.00	.00
3782.200	1572.20	100.09	3.65	1.21	4.56	1.37	397.60	5188.38	380.83	5967.00	.00	.00
4365.200	563.00	101.49	1.40	.00	5.05	.00	.00	5967.00	.00	5967.00	.00	.00
4366.200	1.00	101.38	-.11	.00	6.44	1.75	.00	5826.95	140.05	5967.00	.00	.00
4393.800	27.60	101.56	.18	.00	6.29	1.73	.00	5822.66	144.34	5967.00	.00	.00
4394.800	1.00	101.56	.00	.00	6.30	.00	.00	5967.00	.00	5967.00	.00	.00
4539.800	145.00	102.35	.79	.45	5.62	1.23	14.87	5772.17	179.96	5967.00	.00	.00
6320.000	1780.20	105.71	3.36	.74	3.99	.97	701.24	5049.07	216.69	5967.00	.00	.00
8430.000	2110.00	110.60	4.89	.50	5.74	1.53	89.11	3732.59	1983.30	5805.00	.00	.00
10692.000	2241.60	117.34	6.74	1.93	6.57	1.59	498.18	3812.84	1493.97	5805.00	.00	.00
10853.000	161.40	117.79	.45	1.85	6.33	1.52	507.08	3742.50	1555.41	5805.00	.00	.00
10854.000	1.00	118.08	.29	2.89	4.64	2.44	818.12	2332.74	2654.14	5805.00	.00	.00

01-31-86 15:42:01

PAGE 4

SECHO	XLCH	CWSEL	DIFWSX	VLOB	VCH	VROB	QLOB	QCH	QROB	Q	QMEIR	QPR
10866.000	12.00	118.16	.08	2.85	4.56	2.39	821.19	2308.85	2674.96	5805.00	.00	.00
10867.000	1.00	118.08	-.08	1.76	5.77	1.44	516.31	3774.08	1514.61	5805.00	.00	.00
10907.000	39.60	118.15	.07	1.80	5.95	1.48	507.18	3838.31	1459.51	5805.00	.00	.00
11793.000	933.00	120.44	2.29	2.20	5.68	1.47	987.09	1920.84	2897.07	5805.00	.00	.00
11873.000	80.20	120.64	.20	2.11	5.42	1.43	978.19	1856.70	2970.11	5805.00	.00	.00
11874.000	1.00	120.75	.11	2.83	3.75	1.57	1337.38	1101.05	3366.57	5805.00	.00	.00
11886.000	11.60	120.80	.04	2.81	3.72	1.56	1337.48	1096.13	3371.39	5805.00	.00	.00
11887.000	1.00	120.76	-.03	2.07	5.30	1.39	979.88	1829.29	2995.83	5805.00	.00	.00
11906.000	19.30	120.80	.04	2.07	5.29	1.39	979.87	1827.69	2997.44	5805.00	.00	.00
14980.000	3074.00	124.83	4.03	.94	3.71	1.22	1495.48	3537.05	772.47	5805.00	.00	.00
15130.000	150.00	125.03	.20	2.05	6.42	2.64	247.23	3998.62	1559.15	5805.00	.00	.00

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT

SECNO	XLCH	CWSEL	ELMIN	SSTA	STCHL	STCHR	ENDST	TOPWID	STENCL	STENCR	PERENC
140.000	.00	89.45	78.41	4672.75	5000.00	5042.00	5154.36	481.61	.00	.00	.00
141.000	1.00	89.61	78.41	4656.83	5000.00	5042.00	5154.83	498.00	.00	.00	.00
159.000	18.00	89.91	78.41	4626.16	5000.00	5042.00	5155.74	529.58	.00	.00	.00
160.000	1.00	89.87	78.41	4630.90	5000.00	5042.00	5155.60	524.70	.00	.00	.00
197.000	37.00	90.01	78.60	4635.79	5000.00	5042.00	5155.45	519.66	.00	.00	.00
2210.000	2013.00	96.44	86.00	5573.90	6561.00	6646.00	6726.67	707.27	.00	.00	.00
3782.200	1572.20	100.09	88.72	4861.86	5000.00	5140.00	5244.20	382.33	.00	.00	.00
4365.200	583.00	101.49	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4366.200	1.00	101.38	89.81	4980.04	5000.00	5125.00	5167.31	187.26	.00	.00	.00
4393.800	27.60	101.56	89.81	4975.33	5000.00	5125.00	5170.52	195.20	.00	.00	.00
4394.800	1.00	101.56	89.81	5000.00	5000.00	5125.00	5125.00	125.00	.00	.00	.00
4539.800	145.00	102.35	89.95	4958.89	5000.00	5125.00	5180.45	221.56	.00	.00	.00
6320.000	1780.20	105.71	91.70	5053.65	5528.00	5637.00	5723.64	634.37	.00	.00	.00
8430.000	2110.00	110.60	100.40	5075.25	5130.00	5210.00	5735.47	660.22	.00	.00	.00
10692.000	2241.60	117.34	103.28	4935.34	5000.01	5044.00	5377.49	442.15	.00	.00	.00
10853.000	161.40	117.79	103.49	4933.82	5000.01	5044.00	5394.05	460.22	.00	.00	.00
10854.000	1.00	118.08	103.49	4931.99	5000.00	5045.00	5406.02	474.03	.00	.00	.00
10866.000	12.00	118.16	103.49	4931.51	5000.00	5045.00	5411.56	480.04	.00	.00	.00
10867.000	1.00	118.08	103.49	4932.00	5000.01	5050.00	5405.91	473.91	.00	.00	.00
10907.000	39.60	118.15	103.74	4933.13	5000.01	5050.00	5392.81	459.68	.00	.00	.00
11793.000	933.00	120.44	103.83	4916.19	5000.00	5023.75	5616.70	700.51	.00	.00	.00
11873.000	80.20	120.64	103.86	4914.40	5000.00	5023.75	5624.11	709.71	.00	.00	.00
11874.000	1.00	120.75	103.86	4913.29	5000.00	5023.75	5628.73	715.45	.00	.00	.00
11886.000	11.60	120.80	103.86	4912.89	5000.00	5023.75	5630.37	717.47	.00	.00	.00

SECNO	XLCH	CNSEL	ELMIN	SSTA	STCHL	STCHR	ENDST	TOPWID	STENCL	STENCR	PERENC
11887.000	1.00	120.76	103.86	4913.19	5000.00	5023.75	5629.15	715.97	.00	.00	.00
11906.000	19.30	120.80	103.90	4913.12	5000.00	5023.75	5629.42	716.29	.00	.00	.00
14980.000	3074.00	124.83	109.00	5207.21	5700.00	5783.00	5912.96	705.75	.00	.00	.00
15130.000	150.00	125.03	113.50	5043.70	5081.00	5159.00	5296.36	252.66	.00	.00	.00

THIS RUN EXECUTED 02-12-86 09:16:55

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

C										
T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS										
T2 FILENAME: HC.HEC ENG: SKE EA: KMC & EKL & OLY COMM 2320										
T3 MULBERRY CREEK, CALDWELL CO., NC DATE: 2/12/86 100 YEAR EVENT										
J1	ICHECK	INQ	HINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	0.	4.	0.	0.	.002400	.00	.0	0.	93.00 81.000	1.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRALE
	.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	1.000	51.000	55.000	26.000	56.000	13.000	14.000	15.000
	43.000	46.000	47.000	.000	.000	.000	.000	.000	.000	.000
J6	IHLEQ	ICOPY								
	1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QT	5.000	4529.000	8735.000	12846.000	27820.000	6010.000		.000	.000	.000
NC	.000	.000	.000	.300	.500	.000		.000	.000	.000
NH	6.000	1.000	4596.000	.150	4856.000	.098	5000.000		.063	5042.000
NH	5062.000	1.050	5955.000	.000	.000	.000	.000		.000	.000
	ADD 1000 FEET TO OBTAIN TRUE ELEVATION									
	1ST. BRIDGE X-SECTION FOR BRIDGE # 1.									
X1	140.000	27.000	5000.000	5042.000	140.000	140.000	140.000		.000	.000
X2	10.000	.000	.000	.000	.000	.000	.000		85.010	86.000
X4	2.000	90.210	4596.000	87.030	4856.000	.000	.000		.000	.000
GR	112.000	4104.500	108.000	4114.500	104.000	4124.500	100.000		4144.500	96.000
GR	92.000	4410.000	88.000	4820.000	85.010	5000.000	80.320		5002.000	79.560
GR	79.330	5020.000	78.410	5030.000	79.180	5040.000	81.450		5041.000	83.910
GR	86.000	5062.000	84.000	5092.000	80.000	5102.000	80.000		5132.000	84.000
GR	88.000	5150.000	92.000	5162.000	96.000	5170.000	97.000		5440.000	96.000
GR	96.000	5785.000	100.000	5955.000	.000	.000	.000		.000	.000

NH	6.000	1.000	4596.000	.150	4856.000	.098	5000.000	.063	5042.000	.098
NH	5062.000	1.000	5955.000	.000	.000	.000	.000	.000	.000	.000
BRIDGE # 1. DIRT ROAD SR1338. SKEW ANGLE = 90.										
ELLC = 82.88 ETRO = 80.										
X1	141.000	31.000	5000.000	5042.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	85.010	86.000	.000
X4	2.000	90.210	4596.000	87.030	4856.000	.000	.000	.000	.000	.000
BT	-31.000	4104.500	112.000	112.000	4114.500	108.000	108.000	4124.500	104.000	104.000
BT	.000	4144.500	100.000	100.000	4332.000	96.000	96.000	4410.000	92.000	92.000
BT	.000	4820.000	88.000	88.000	5000.000	85.010	85.010	5001.000	85.010	85.010
BT	.000	5001.010	85.790	85.790	5002.000	85.760	80.320	5010.000	85.550	82.880
BT	.000	5020.000	85.270	82.560	5030.000	84.990	82.240	5040.000	84.730	81.920
BT	.000	5040.010	84.730	79.180	5041.000	84.700	79.180	5041.010	83.910	79.180
BT	.000	5042.000	83.910	83.910	5062.000	86.000	86.000	5092.000	84.000	84.000
BT	.000	5102.000	80.000	80.000	5132.000	80.000	80.000	5142.000	84.000	84.000
BT	.000	5150.000	88.000	88.000	5162.000	92.000	92.000	5170.000	96.000	96.000
BT	.000	5440.000	97.000	97.000	5705.000	96.000	96.000	5785.000	96.000	96.000
BT	.000	5955.000	100.000	100.000	.000	.000	.000	.000	.000	.000
GR	112.000	4104.500	108.000	4114.500	104.000	4124.500	100.000	4144.500	96.000	4332.000
GR	92.000	4410.000	88.000	4820.000	85.010	5000.000	80.320	5001.000	80.320	5001.010
GR	80.320	5002.000	79.560	5010.000	79.530	5020.000	78.410	5030.000	79.180	5040.000
GR	79.180	5040.010	79.180	5041.000	79.180	5041.010	83.910	5042.000	86.000	5062.000
GR	84.000	5092.000	80.000	5102.000	80.000	5132.000	84.000	5142.000	88.000	5150.000
GR	92.000	5162.000	96.000	5170.000	97.000	5440.000	96.000	5705.000	96.000	5785.000
GR	100.000	5955.000	.000	.000	.000	.000	.000	.000	.000	.000
NH	6.000	1.000	4596.000	.150	4856.000	.098	5000.000	.063	5042.000	.098
NH	5062.000	1.000	5955.000	.000	.000	.000	.000	.000	.000	.000
X1	159.000	.000	.000	.000	18.000	18.000	18.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
NH	6.000	1.000	4596.000	.150	4856.000	.098	5000.000	.063	5042.000	.098
NH	5062.000	1.000	5955.000	.000	.000	.000	.000	.000	.000	.000
X1	160.000	27.000	5000.000	5042.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	85.010	86.000	.000
X4	2.000	90.210	4596.000	87.030	4856.000	.000	.000	.000	.000	.000
GR	112.000	4104.500	108.000	4114.500	104.000	4124.500	100.000	4144.500	96.000	4332.000
GR	92.000	4410.000	88.000	4820.000	85.010	5000.000	80.320	5002.000	80.320	5010.000
GR	79.530	5020.000	78.410	5030.000	79.180	5040.000	81.450	5041.000	83.910	5042.000
GR	86.000	5062.000	84.000	5092.000	80.000	5102.000	80.000	5132.000	84.000	5142.000
GR	88.000	5150.000	92.000	5162.000	96.000	5170.000	97.000	5440.000	96.000	5705.000
GR	96.000	5785.000	100.000	5955.000	.000	.000	.000	.000	.000	.000
NH	6.000	1.000	4596.000	.150	4856.000	.108	5000.000	.063	5042.000	.108
NH	5062.000	1.000	5955.000	.000	.000	.000	.000	.000	.000	.000

had to go across
 JOHN'S CHECK
 PLEASE
 GEOMETRY
 X-SECT SEEMS
 TO FOLLOW RD
 ON MAP BUT
 PLOT SHOWS
 TWO CHANNELS
 SHOULD 2 BRIDGE
 BE IN?

LAST X-SECTION FOR BRIDGE # 1.

X1	197.000	.000	.000	.000	37.000	37.000	37.000	.000	.190	.000
X4	2.000	90.400	4596.000	87.220	4856.000	.000	.000	.000	.000	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	6.000	1.000	5595.000	.150	6165.000	.108	6551.000	.063	6646.000	.108
NH	6826.000	.170	7007.000	.000	.000	.000	.000	.000	.000	.000

X-SECTION MA

X1	2210.000	57.000	6561.000	6646.000	1503.000	2013.000	2013.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	94.000	94.000	.000
GR	120.000	5000.000	112.000	5050.000	103.000	5080.000	112.000	5100.000	113.000	5190.000
GR	112.000	5265.000	110.000	5300.000	108.000	5335.000	107.000	5395.000	105.000	5455.000
GR	104.000	5500.000	102.000	5535.000	100.000	5565.000	96.000	5575.000	95.000	5585.000
GR	96.000	5595.000	100.000	5610.000	100.000	5635.000	100.000	5665.000	99.000	5745.000
GR	98.000	5825.000	98.000	5915.000	97.000	6000.000	96.000	6075.000	94.000	6100.000
GR	92.000	6135.000	88.000	6140.000	86.600	6150.000	88.000	6155.000	92.000	6165.000
GR	93.000	6190.000	93.000	6265.000	94.000	6390.000	94.000	6475.000	92.000	6525.000
GR	92.000	6561.000	89.000	6566.000	87.000	6567.000	86.000	6571.000	86.000	6581.000
GR	86.500	6591.000	86.500	6601.000	87.000	6607.000	88.000	6609.000	89.000	6631.000
GR	92.000	6646.000	94.000	6666.000	96.000	6696.000	97.000	6766.000	98.000	6826.000
GR	98.000	6864.000	100.000	6884.000	102.000	6904.000	104.000	6922.000	106.000	6957.000
GR	108.000	6987.000	112.000	7007.000	.000	.000	.000	.000	.000	.000
QT	5.000	4496.000	8677.000	12766.000	27694.000	5967.000	.000	.000	.000	.000
NH	6.000	1.000	4698.000	.150	4888.000	.108	5000.000	.063	5140.000	.108
NH	5323.000	.180	5359.000	.000	.000	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 2.
 ELLC = 106.27 ETRD = 109.65 SKEW ANGLE = 85°

X1	3782.200	25.000	5000.000	5140.000	1812.200	1492.200	1572.200	.000	-1.090	.000
X4	3.000	104.110	4698.000	97.910	4888.000	106.900	5323.000	.000	.000	.000
GR	112.000	4550.000	108.000	4600.000	106.300	4640.000	106.000	4660.000	103.000	4840.000
GR	98.000	5000.000	97.000	5010.000	96.000	5025.000	93.800	5045.000	90.760	5077.000
GR	90.150	5090.000	89.810	5100.000	89.970	5111.500	89.970	5111.510	89.970	5111.990
GR	89.970	5112.000	89.970	5113.000	89.970	5113.010	89.970	5113.490	89.970	5113.500
GR	90.760	5119.000	96.700	5140.000	97.300	5150.000	99.000	5219.000	112.000	5359.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	6.000	1.000	4698.000	.150	4888.000	.108	5000.000	.063	5150.000	.108
NH	5323.000	.170	5359.000	.000	.000	.000	.000	.000	.000	.000
X1	4365.200	.000	.000	.000	583.000	583.000	583.000	.000	1.090	.000
X3	10.000	.000	.000	.000	.000	.000	.000	110.000	110.000	.000
X4	3.000	105.200	4698.000	99.000	4888.000	107.900	5323.000	.000	.000	.000
NH	3.000	.150	5000.000	.063	5125.000	.170	5625.000	.000	.000	.000

5140.
 (MUST AGREE
 W/ STCHR)

BRIDGE # 2, ABINGTON RD. SR1310

X1	4366.200	41.000	5000.000	5125.000	1.000	1.000	1.000	.000	.000	.000
BT	-41.000	4415.000	112.000	112.000	4660.000	110.000	110.000	4800.000	110.000	110.000
BT	.000	4913.000	109.840	104.000	5000.000	109.650	100.600	5000.010	112.510	100.600
BT	.000	5009.990	112.510	100.000	5010.000	112.510	106.250	5025.000	112.510	106.200
BT	.000	5045.000	112.510	106.130	5051.500	112.510	106.110	5051.510	112.510	103.610
BT	.000	5051.990	112.510	103.610	5052.000	112.510	93.790	5053.000	112.510	93.790
BT	.000	5053.010	112.510	103.610	5053.490	112.510	103.610	5053.500	112.510	106.110
BT	.000	5077.000	112.510	106.110	5090.000	112.510	106.100	5100.000	112.510	106.100
BT	.000	5111.500	112.510	106.100	5111.510	112.510	103.600	5111.990	112.510	103.600
BT	.000	5112.000	112.510	89.970	5113.000	112.510	89.970	5113.010	112.510	89.970
BT	.000	5113.490	112.510	103.600	5113.500	112.510	106.100	5119.000	112.510	106.120
BT	.000	5125.000	112.510	106.150	5143.000	112.510	106.230	5143.010	112.510	96.700
BT	.000	5150.000	112.510	100.000	5153.700	112.510	100.600	5153.710	109.760	100.600
BT	.000	5213.000	111.790	104.000	5219.000	112.000	105.000	5323.000	110.510	108.000
BT	.000	5359.000	110.000	110.000	5625.000	112.000	112.000	.000	.000	.000
GR	112.000	4415.000	110.000	4660.000	110.000	4800.000	104.000	4913.000	100.600	5000.000
GR	100.600	5000.010	100.000	5009.990	100.000	5010.000	98.800	5025.000	93.800	5045.000
GR	93.790	5051.500	93.790	5051.510	93.790	5051.990	93.790	5052.000	93.790	5053.000
GR	93.790	5053.010	93.790	5053.490	93.790	5053.500	90.760	5077.000	90.150	5090.000
GR	89.810	5100.000	89.970	5111.500	89.970	5111.510	89.970	5111.990	89.970	5112.000
GR	89.970	5113.000	89.970	5113.010	89.970	5113.490	89.970	5113.500	90.760	5119.000
GR	97.180	5125.000	96.700	5143.000	96.700	5143.010	100.000	5150.000	100.600	5153.700
GR	100.600	5153.710	104.000	5213.000	105.000	5219.000	108.000	5323.000	110.000	5359.000
GR	112.000	5625.000	.000	.000	.000	.000	.000	.000	.000	.000
NH	3.000	.150	5000.000	.063	5125.000	.170	5625.000	.000	.000	.000
X1	4393.800	.000	.000	.000	27.600	27.600	27.600	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
NH	3.000	.170	5000.000	.063	5125.000	.170	5625.000	.000	.000	.000
X1	4394.800	20.000	5000.000	5125.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	110.000	110.000	.000
GR	112.000	4415.000	110.000	4660.000	110.000	4800.000	104.000	4913.000	100.600	5000.000
GR	100.000	5010.000	98.800	5025.000	94.000	5050.000	90.760	5077.000	90.150	5090.000
GR	89.810	5100.000	89.970	5112.000	90.760	5119.000	97.200	5125.000	97.400	5143.000
GR	100.000	5150.000	105.000	5219.000	108.000	5323.000	110.000	5359.000	112.000	5625.000
NH	3.000	.170	5000.000	.063	5125.000	.170	5625.000	.000	.000	.000
LAST X-SECTION FOR BRIDGE # 2.										
X1	4539.800	.000	.000	.000	145.000	145.000	145.000	.000	.140	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	7.000	1.000	5086.000	.160	5284.000	.113	5528.000	.063	5637.000	.113
NH	5770.000	.170	5976.000	1.000	6325.000	.000	.000	.000	.000	.000

SEE COMMENT
pg 12

X-SECTION FOR MB.

X1	6320.000	37.000	5528.000	5637.000	1700.200	1675.200	1780.200	.000	.000	.000
X4	1.000	112.670	5976.000	.000	.000	.000	.000	.000	.000	.000
GR	140.000	5000.000	125.000	5015.000	120.000	5020.000	116.000	5030.000	112.000	5045.000
GR	104.000	5856.000	100.000	5070.000	104.000	5086.000	105.000	5126.000	106.000	5214.000
GR	104.000	5284.000	101.000	5352.000	105.000	5487.000	100.000	5528.000	94.000	5540.000
GR	93.000	5540.010	91.700	5543.000	92.000	5553.000	92.700	5563.000	92.800	5573.000
GR	93.000	5583.000	92.800	5593.000	92.600	5603.000	93.000	5608.000	100.000	5637.000
GR	104.000	5689.000	108.000	5770.000	112.000	5892.000	112.000	5944.000	116.000	6134.000
GR	119.000	6154.000	120.000	6176.000	124.000	6200.000	129.000	6232.000	132.000	6297.000
GR	136.000	6315.000	140.000	6325.000	.000	.000	.000	.000	.000	.000
QT	5.000	4368.000	8455.000	12457.000	27122.000	5805.000	.000	.000	.000	.000
NH	6.000	1.000	5118.500	.113	5130.000	.061	5210.000	.113	5710.000	.170
NH	6338.500	1.000	6573.000	.000	.000	.000	.000	.000	.000	.000

X-SECTION FOR MC.

X1	8430.000	35.000	5130.000	5210.000	1970.000	1930.000	2110.000	.000	.000	.000
X4	2.000	107.210	5118.500	120.410	6338.500	.000	.000	.000	.000	.000
GR	140.000	5000.000	137.000	5010.000	120.000	5040.000	116.000	5055.000	112.000	5070.000
GR	108.000	5085.000	106.000	5095.000	107.800	5130.000	103.000	5140.000	102.000	5144.000
GR	101.000	5145.000	100.700	5150.000	102.000	5160.000	101.300	5170.000	100.400	5180.000
GR	100.500	5190.000	101.000	5192.000	102.900	5195.000	104.000	5200.000	108.000	5210.000
GR	107.000	5260.000	108.000	5475.000	108.000	5570.000	110.000	5710.000	112.000	5795.000
GR	116.000	5930.000	120.000	6045.000	124.000	6150.000	120.000	6360.000	124.000	6385.000
GR	134.000	6405.000	134.000	6420.000	136.000	6495.000	139.000	6535.000	140.000	6573.000
NH	7.000	1.000	4594.500	.200	4932.000	.113	5000.010	.061	5044.000	.113
NH	5272.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 3.
 ELLC = 107.98 ETRD = 109.57 SKEW ANGLE = 80.

X1	10692.000	32.000	5000.010	5044.000	2121.600	2301.600	2261.600	.000	-.210	.000
X4	2.000	117.870	4932.000	115.790	5272.000	.000	.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	108.580	5000.010	107.980	5001.010
GR	105.790	5002.010	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000
GR	103.490	5022.000	103.490	5022.010	103.900	5029.000	103.930	5030.000	104.800	5039.000
GR	104.850	5040.000	105.790	5042.590	108.050	5044.800	111.430	5050.000	112.000	5075.300
GR	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600	132.000	5769.100
GR	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	7.000	1.000	4594.500	.200	4932.000	.113	5000.010	.060	5044.000	.113
NH	5272.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000
X1	10853.000	.000	.000	.000	161.400	161.400	161.400	.000	.210	.000
X3	10.000	.000	.000	.000	.000	.000	.000	109.650	109.760	.000
X4	2.000	118.080	4594.500	116.000	5272.000	.000	.000	.000	.000	.000

NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.000	.060	5045.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000

BRIDGE # 3, PRIVATE BRIDGE.

X1	10854.000	38.000	5000.000	5045.000	1.000	1.000	1.000	.000	.000	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000
BT	35.000	4382.200	140.000	140.000	4482.000	136.000	136.000	4594.500	132.000	132.000
BT	.000	4707.000	128.000	128.000	4830.000	124.000	124.000	4920.000	120.000	120.000
BT	.000	4945.000	116.000	116.000	4985.000	112.000	112.000	4990.000	111.450	111.450
BT	.000	5000.000	109.900	109.900	5000.010	109.900	108.580	5001.600	109.900	108.580
BT	.000	5001.010	110.160	107.980	5002.000	110.160	107.980	5019.990	109.590	107.270
BT	.000	5020.000	109.590	103.490	5021.000	109.570	103.490	5022.000	109.600	103.490
BT	.000	5022.010	109.600	107.270	5030.000	109.840	107.550	5040.000	110.150	107.950
BT	.000	5042.600	110.230	108.050	5044.000	110.270	108.050	5044.010	109.860	109.040
BT	.000	5044.990	109.860	109.040	5045.000	109.860	109.860	5050.000	111.430	111.430
BT	.000	5075.300	112.000	112.000	5255.000	116.000	116.000	5545.000	120.000	120.000
BT	.000	5637.800	124.000	124.000	5656.600	128.000	128.000	5769.100	132.000	132.000
BT	.000	5800.400	136.000	136.000	5825.400	140.000	140.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	111.450	4990.000	109.900	5000.000
GR	108.580	5000.010	108.580	5001.000	107.980	5001.010	107.980	5002.000	105.790	5002.010
GR	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000	103.490	5022.000
GR	103.490	5022.010	103.930	5030.000	104.850	5040.000	105.790	5042.590	108.050	5042.600
GR	108.050	5044.000	109.040	5044.010	109.040	5044.990	109.860	5045.000	111.430	5050.000
GR	112.000	5075.300	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600
GR	132.000	5769.100	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000

NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.000	.060	5045.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000
X1	10866.000	.000	.000	.000	12.000	12.000	12.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000

NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.010	.060	5050.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000
X1	10867.000	32.000	5000.010	5050.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	109.650	109.760	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	108.580	5000.010	107.980	5001.010
GR	105.790	5002.010	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000
GR	103.490	5022.000	103.490	5022.010	103.900	5029.000	103.930	5030.000	104.800	5039.000
GR	104.850	5040.000	105.790	5042.590	108.050	5044.000	111.430	5050.000	112.000	5075.300
GR	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600	132.000	5769.100
GR	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000	.000	.000

NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.010	.060	5050.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000

LAST X-SECTION FOR BRIDGE # 3.

X1	10907.000	.000	.000	.000	39.600	39.600	39.600	.000	.250	.000
X4	2.000	133.940	4547.000	116.620	5282.000	.000	.000	.000	.000	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	5.000	.113	5000.000	.062	5023.750	.113	5136.750	.170	5578.000	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 4.

ELLC = 109.26 ETRD = 111.31 SKEW ANGLE = 85.

X1	11793.000	25.000	5000.000	5023.750	896.400	861.400	885.400	.000	.030	.000
X4	1.000	119.810	5578.000	.000	.000	.000	.000	.000	.000	.000
GR	132.000	4826.000	128.000	4849.000	124.000	4880.000	120.000	4921.000	116.000	4946.000
GR	113.000	4974.000	112.720	4984.000	110.390	5000.000	110.090	5001.000	108.580	5002.000
GR	106.000	5003.000	103.860	5005.700	105.460	5010.600	105.690	5011.300	105.770	5012.000
GR	107.000	5023.000	109.260	5023.500	111.080	5023.750	111.380	5032.850	112.000	5065.750
GR	116.000	5136.750	120.000	5596.750	124.000	5766.750	128.000	5828.750	132.000	5887.800
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	5.000	.113	5000.000	.062	5023.750	.113	5153.000	.170	5596.750	1.000
NH	5387.800	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	11873.000	.000	.000	.000	80.200	80.200	80.200	.000	.030	.000
X3	10.000	.000	.000	.000	.000	.000	.000	110.390	111.080	.000
X4	1.000	116.140	5153.000	.000	.000	.000	.000	.000	.000	.000
NH	5.000	.113	5000.000	.062	5023.750	.113	5153.000	.170	5596.750	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000

BRIDGE # 4, PRIVATE

X1	11874.000	25.000	5000.000	5023.750	1.000	1.000	1.000	.000	.000	.000
X4	1.000	116.140	5153.000	.000	.000	.000	.000	.000	.000	.000
BT	-25.000	4826.000	132.000	132.000	4849.000	128.000	128.000	4880.000	124.000	124.000
BT	.000	4921.000	120.000	120.000	4946.000	116.000	116.000	4974.000	113.000	113.000
BT	.000	4984.000	112.720	112.720	5000.000	110.390	110.390	5001.000	110.680	110.090
BT	.000	5002.000	110.770	108.580	5002.700	110.790	108.590	5005.700	110.850	108.680
BT	.000	5010.600	110.960	108.840	5011.300	110.690	108.860	5012.000	111.060	108.880
BT	.000	5023.000	111.300	109.250	5023.500	111.310	109.260	5023.750	111.080	111.080
BT	.000	5032.850	111.380	111.380	5065.750	112.000	112.000	5136.750	116.000	116.000
BT	.000	5596.750	120.000	120.000	5766.750	124.000	124.000	5828.750	128.000	128.000
BT	.000	5887.800	132.000	132.000	.000	.000	.000	.000	.000	.000
GR	132.000	4826.000	128.000	4849.000	124.000	4880.000	120.000	4921.000	116.000	4946.000
GR	113.000	4974.000	112.720	4984.000	110.390	5000.000	110.090	5001.000	108.580	5002.000
GR	108.590	5002.700	103.860	5005.700	105.460	5010.600	105.690	5011.300	105.770	5012.000
GR	107.000	5023.000	109.260	5023.500	111.080	5023.750	111.380	5032.850	112.000	5065.750
GR	116.000	5136.750	120.000	5596.750	124.000	5766.750	128.000	5828.750	132.000	5887.800

NH	5.000	.113	5000.000	.062	5023.750	.113	5153.000	.170	5596.750	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	11886.000	.000	.000	.000	11.600	11.600	11.600	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
X4	1.000	116.140	5153.000	.000	.000	.000	.000	.000	.000	.000

NH	5.000	.113	5000.000	.062	5023.750	.113	5153.000	.170	5596.750	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	11887.000	25.000	5000.000	5023.750	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	110.390	111.080	.000
X4	1.000	116.140	5153.000	.000	.000	.000	.000	.000	.000	.000
GR	132.000	4826.000	128.000	4849.000	124.000	4889.000	120.000	4921.000	116.000	4946.000
GR	113.000	4974.000	112.720	4984.000	110.390	5000.000	110.090	5001.000	108.580	5002.000
GR	106.000	5003.000	103.860	5005.700	105.460	5010.600	105.690	5011.300	105.770	5012.000
GR	107.000	5023.000	109.260	5023.500	111.080	5023.750	111.380	5032.850	112.000	5045.750
GR	116.000	5136.750	120.000	5596.750	124.000	5766.750	128.000	5828.750	132.000	5887.800

NH	5.000	.113	5000.000	.062	5023.750	.113	5153.000	.170	5596.750	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000

LAST X-SECTION FOR BRIDGE # 4.

X1	11906.000	.000	.000	.000	19.300	19.300	19.300	.000	.140	.000
X4	1.000	116.180	5153.000	.000	.000	.000	.000	.000	.000	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.090	.000
NH	7.000	1.000	5035.000	.120	5376.500	.113	5700.000	.062	5783.000	.113
NH	5848.000	.170	5908.000	1.000	6046.000	.000	.000	.000	.000	.000

X-SECTION FOR MD.

X1	12870.000	29.000	5700.000	5783.000	1043.900	853.900	963.900	.000	.000	.000
X4	1.000	121.290	5376.500	.000	.000	.000	.000	.000	.000	.000
GR	150.000	5000.000	148.000	5005.000	144.000	5025.000	143.000	5035.000	140.000	5052.000
GR	136.000	5070.000	132.000	5090.000	128.000	5112.000	124.000	5232.000	121.000	5392.000
GR	121.000	5477.000	121.000	5645.000	120.000	5700.000	118.000	5718.000	116.000	5726.000
GR	112.000	5734.000	109.000	5752.000	109.000	5770.000	112.000	5775.000	114.000	5778.000
GR	116.000	5783.000	120.000	5848.000	121.000	5873.000	124.000	5908.000	126.000	5920.000
GR	140.000	5945.000	144.000	5995.000	150.000	6013.000	169.000	6046.000	.000	.000
NH	6.000	1.000	5045.000	.113	5081.000	.062	5159.000	.113	5527.000	.150
NH	5746.000	1.000	5779.000	.000	.000	.000	.000	.000	.000	.000

X-SECTION FOR ME.

X1	14980.000	33.000	5081.000	5159.000	1900.000	2130.000	2110.000	.000	.000	.000
X4	1.000	127.000	5527.000	.000	.000	.000	.000	.000	.000	.000
GR	155.000	5000.000	148.000	5015.000	140.000	5025.000	124.000	5045.000	122.000	5050.000
GR	121.000	5081.000	118.000	5083.000	115.000	5086.000	113.500	5090.000	113.800	5100.000
GR	114.000	5110.000	115.000	5118.000	117.000	5122.000	117.000	5131.000	122.400	5152.000
GR	124.000	5159.000	119.000	5199.000	119.000	5244.000	120.000	5264.000	124.000	5284.000
GR	125.000	5294.000	127.000	5424.000	127.000	5609.000	128.000	5644.000	132.000	5679.000
GR	134.000	5704.000	136.000	5714.000	140.000	5719.000	152.000	5734.000	152.000	5746.000

MULBERRY CREEK, CALDWELL CO., NC DATE: 1/16/83 10-YEAR EVENT 80.

Station	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
J1	2.0															80.
J21-0																
J338	39.	1.	51.	26.	56.	13.	14.	15.								
J343	46.	47.	0.	38.	39.	1.	42.	53.	21.							
J322	54.	4.	27.	28.	36.											
J5-10	-10.															
J61-0																
QT7-0	4529.	8735.	12846.	27820.	6010.	3915.	2572.									
NC			0.3	0.5												
NH6-0	0.2	4596.	0.13	4856.	0.08	5001.01	0.055	5042.	0.08							
NH5062	0.15	5162.														
X1140	22.		151.	151.	151.	151.	85.01	86.	0.00							
X310																
GR112	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.							
GR92	4410.	88.	4820.	85.01	5000.00	80.32	5002.	79.56	5010.							
GR79-33	5020.	78.41	5030.	79.18	5040.	81.45	5041.	83.91	5042.							
GR86	5062.	84.	5092.	80.	5102.	80.	5132.	84.	5142.							
GR88	5150.	92.	5162.													
NH6-0	0.2	4596.	0.13	4856.	0.08	5000.	0.055	5042.	0.08							
NH5062	0.15	5162.														
X1141	26.	5000.	5042.	1.	1.	1.										
X42-0	90.21	4596.	87.03	4856.												
X310																
BT-26	4104.5	112.	4114.5	108.	4124.5	104.	4144.5	96.	4332.							
BT	4144.5	100.	4332.	96.	4410.	92.	4410.	92.	4410.							
BT	4820.	88.	5000.	85.01	5001.	85.01	5001.	85.01	80.32							
BT	5001.01	85.79	5002.	80.32	5002.	80.32	5010.	85.55	82.88							
BT	5020.	85.27	5030.	84.56	5030.	84.75	5040.	84.75	81.92							
BT	5040.01	84.73	5041.	84.7	5041.01	83.91	5042.	84.	84.							
BT	5042.	83.91	5062.	80.	5132.	80.	5142.	84.	84.							
BT	5102.	80.	5132.	80.	5142.	84.										
BT	5150.	88.	5162.													
GR112	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.							
GR92	4410.	88.	4820.	85.01	5000.	80.32	5001.	80.32	5001.01							
GR80-32	5002.	79.56	5010.	79.33	5020.	78.41	5030.	79.18	5040.							
GR79-18	5040.01	79.18	5041.	79.18	5041.01	83.91	5042.	86.	5062.							
GR84	5092.	80.	5102.	80.	5132.	84.	5142.	88.	5150.							
GR92	5162.															
NH6-0	0.2	4596.	0.13	4856.	0.08	5000.	0.055	5042.	0.08							
NH5062	0.15	5162.														
X1159			18.	18.	18.	18.										
X2																
NH6-0	0.2	4596.	0.13	4856.	0.08	5001.01	0.055	5042.	0.08							
NH5062	0.15	5162.														
X1160	22.	5000.00	5042.	1.	1.	1.	85.01	86.								
X310																
X42-0	90.21	4596.	87.03	4856.												
GR112	4104.5	108.	4114.5	104.	4124.5	100.	4144.5	96.	4332.							
GR92	4410.	88.	4820.	85.01	5000.00	80.32	5002.	79.56	5010.							
GR79-33	5020.	78.41	5030.	79.18	5040.	81.45	5041.	83.91	5042.							
GR86	5062.	84.	5092.	80.	5102.	80.	5132.	84.	5142.							
GR88	5150.	92.	5162.													
NH6-0	0.2	4596.	0.13	4856.	0.08	5001.01	0.055	5042.	0.08							
NH5062	0.15	5162.														
X1197			37.	37.	37.	37.	0.19									
NC0-1	0.1	0.05	0.1	0.3	0.08	6561.	0.055	6621.	0.08							
NH6-0	0.2	5595.	0.13	6165.	0.08	6561.	0.055	6621.	0.08							
NH6826	0.15	7007.														
X12210	57.	6561.	6646.	2013.	2013.	2013.	2013.	2013.	2013.							
X310																
GR120	5000.	112.	5050.	108.	5080.	112.	5100.	113.	5190.							

GR112.	5265.	110.	5300.	108.	5335.	107.	5395.	105.	5455.
GR104.	5500.	102.	5535.	100.	5565.	96.	5575.	95.	5585.
GR96.	5595.	100.	5610.	100.	5635.	100.	5665.	99.	5745.
GR98.	5825.	98.	5915.	97.	6000.	96.	6075.	94.	6100.
GR92.	6135.	88.	6140.	86.6	6150.	88.	6155.	92.	6165.
GR93.	6190.	93.	6265.	94.	6390.	94.	6475.	92.	6525.
GR92.	6561.	89.	6566.	87.	6567.	86.	6571.	86.	6581.
GR86.5	6591.	86.5	6601.	87.	6607.	88.	6609.	89.	6631.
GR92.	6646.	94.	6666.	96.	6696.	97.	6766.	98.	6826.
GR98.	6864.	100.	6884.	102.	6904.	104.	6922.	106.	6957.
GR108.	6987.	112.	7007.				5967.		
QT7.0	4496.	8677.	12766.	27694.	2552.	3887.	0.055	5153.71	0.08
NH6.0	0.2	4698.	0.13	4888.	0.08	5000.			
NH5323.	0.15	5363.							
X13782.224.	5000.	5140.00	1572.2	1572.2	1572.2				
X42.0	93.19	4698.	91.14	4888.					
GR107.	4600.	106.3	4640.	106.	4660.	103.	4840.	98.00	5000.00
GR97.00	5010.	96.00	5025.	93.80	5045.	90.76	5077.	90.15	5090.
GR89.81	5100.	89.97	5111.5	89.97	5111.51	89.97	5111.99	89.97	5112.
GR89.97	5113.	89.97	5113.01	89.97	5113.49	89.97	5113.5	90.76	5119.
GR96.7	5140.	97.3	5150.	99.	5219.	111.	5359.		
MC			0.3	0.5					
NH3.0	0.13	5000.	0.055	5153.71	0.15	5359.			
X14365.2			583.	583.			110.	110.	
X310.									
NH3.0	0.13	5000.	0.055	5125.00	0.15	5359.			
X14366.251.			5125.00	1.					
BT-39.	4660.	110.	4800.	110.	4913.	109.84	104.		
BT	5000.	109.65	5000.01	112.51	100.60	5009.99	112.51	100.00	
BT	5010.	112.51	106.25	5025.	112.51	106.2	5045.	112.51	106.13
BT	5051.5	112.51	106.11	5051.51	112.51	103.61	5051.99	112.51	103.61
BT	5052.	112.51	93.79	5053.	112.51	93.79	5053.01	112.51	103.61
BT	5053.49	112.51	103.61	5053.5	112.51	106.11	5077.	112.51	106.11
BT	5090.	112.51	106.1	5100.	112.51	106.1	5111.5	112.51	106.1
BT	5111.51	112.51	103.60	5111.99	112.51	103.6	5112.	112.51	89.97
BT	5113.	112.51	89.97	5113.01	112.51	89.97	5113.49	112.51	103.6
BT	5113.5	112.51	106.1	5119.	112.51	106.12	5125.	112.51	106.15
BT	5143.	112.51	106.23	5143.01	112.51	96.70	5150.	112.51	100.00
BT	5153.7	112.51	100.60	5153.71	109.76	100.60	5213.	111.79	104.00
BT	5219.	112.	105.00	5323.	110.51	108.00	5359.	110.0.	110.
GR110.	4660.	110.0	4800.0	104.	4913.	100.6	5000.	100.6	5000.0
GR100.	5009.99	100.	5010.	98.8	5025.	93.80	5045.	93.79	5051.5
GR93.79	5051.51	93.79	5051.99	93.79	5052.	93.79	5053.	93.79	5053.01
GR89.97	5111.5	89.97	5113.49	89.97	5113.5	90.76	5090.	89.81	5100.
GR89.97	5113.01	89.97	5113.49	89.97	5113.5	90.76	5112.	89.97	5113.
GR96.7	5143.	96.700	5143.01	100.00	5150.	100.60	5153.7	100.6	5153.71
GR104.	5213.	105.00	5219.	108.00	5323.	110.0	5359.		
NH3.0	0.13	5000.	0.055	5125.00	0.15	5359.			
X14393.8			27.6	27.6					
X2									
NH3.0	0.13	5000.	0.055	5125.00	0.15	5359.			
X14394.818.			5125.00	1.					
X310.									
GR110.	4660.	110.0	4800.	104.	4913.	100.6	5000.	100.	5010.
GR98.8	5025.	94.	5050.	90.76	5077.	90.15	5090.	89.81	5100.
GR89.97	5112.	90.76	5119.	97.2	5125.	97.4	5143.	100.	5150.
GR105.0	5219.	108.0	5323.	110.0	5359.				
NH6.0	0.2	4543.	0.085	4573.	0.15	5000.	0.05	5153.71	0.085
NH5193.	0.15	5363.							
X14539.8									
X42.0	95.68	4573.	95.	145.	145.				

NCO.1	0.1	0.05	0.1	0.3						
NH7.0	0.2	5086.	0.14	5284.	0.085	5528.	0.05	5630.8	0.085	
NH5770.	0.15	5976.	0.2	6325.						
X16320.	37.	5528.	5637.	1780.2	1780.2	1780.2				
X41.0	112.67	5976.								
GR140.	5000.	125.	5015.	120.	5020.	116.	5030.	112.	5045.	
GR104.	5056.	100.	5070.	104.	5086.	105.	5126.	106.	5214.	
GR104.	5284.	101.	5352.	105.	5487.	100.	5528.	94.	5540.	
GR93.	5540.01	91.7	5543.	92.	5553.	92.7	5563.	92.8	5573.	
GR93.	5583.	92.8	5593.	92.6	5603.	93.	5608.	100.	5637.	
GR104.	5689.	108.	5770.	112.	5892.	112.	5944.	116.	6134.	
GR119.	6154.	120.	6176.	124.	6200.	128.	6232.	132.	6297.	
GR136.	6315.	140.	6325.							
NH6.0	0.2	5118.5	0.085	5130.	0.05	5210.	0.085	5710.	0.15	
NH6338.	50.2	6573.								
X18430.	35.	5130.	5210.	2110.	2110.	2110.				
X42.0	107.21	5118.5	120.41	6338.5						
GR140.	5000.	137.	5010.	120.	5040.	116.	5055.	112.	5070.	
GR108.	5085.	106.	5095.	107.8	5130.	103.	5140.	102.	5144.	
GR101.	5145.	100.7	5150.	102.	5160.	101.3	5170.	100.4	5180.	
GR100.5	5190.	101.	5192.	102.9	5195.	104.	5200.	108.	5210.	
GR107.	5260.	108.	5475.	108.	5570.	110.	5710.	112.	5795.	
GR116.	5930.	120.	6045.	124.	6150.	120.	6360.	124.	6385.	
GR136.	6405.	134.	6420.	136.	6495.	139.	6535.	140.	6573.	
NH7.0	0.2	4594.5	0.18	4932.	0.085	5000.01	0.05	5050.	0.085	
NH5272.	0.15	5656.6	0.2	5825.4						
X110692.	32.	5000.01	5050.	2241.6	2241.6	2241.6				
X42.0	117.86	4932.	116.02	5272.						
GR140.	4382.2	136.	4482.	132.	4594.5	128.	4707.	124.	4830.	
GR120.	4920.	116.	4945.	112.	4985.	108.58	5000.01	107.98	5001.01	
GR105.795002.01	104.53	5002.02	103.49	5019.99	103.49	5020.	103.49	5021.	5021.	
GR103.495022.	103.49	5022.01	103.90	5029.	103.93	5030.	104.8	5039.	5039.	
GR104.855040.	105.79	5042.59	108.05	5044.	111.43	5050.	112.	5075.3	5075.3	
GR116.	5255.	120.	5545.	124.	5637.8	128.	5656.6	132.	5769.1	
GR136.	5800.4	140.	5825.4							
NC			0.3	0.5						
NH7.0	0.2	4547.	0.18	4945.	0.085	5000.01	0.05	5050.	0.085	
NH5282.	0.15	5656.6	0.2	5825.4						
X110853.			161.4	161.4	161.4			0.21		
X310.						109.65	109.76			
X42.0	133.69	4547.	116.37	5282.						
NH7.0	0.2	4547.	0.18	4945.	0.085	5000.	0.05	5045.	0.085	
NH5282.	0.15	5656.6	0.2	5825.4						
X110854.	38.	5000.	5045.	1.	1.	1.				
X42.0	133.69	4547.	116.37	5282.						
BT-35.	4382.2	140.	140.	4482.	136.	136.	4594.5	132.	132.	
BT	4707.	128.	128.	4830.	124.	124.	4920.	120.	120.	
BT	4945.	116.	116.	4985.	112.	112.	4990.	111.45	111.45	
BT	5000.	109.9	109.9	5000.01	109.9	108.58	5001.	109.9	108.58	
BT	5001.01	110.16	107.98	5002.	110.16	107.98	5019.99	109.59	107.27	
BT	5020.	109.59	103.49	5021.	109.57	103.49	5022.	109.6	103.49	
BT	5022.01	109.6	107.27	5030.	109.84	107.55	5040.	110.15	107.95	
BT	5042.6	110.23	108.05	5044.	110.27	108.05	5044.01	109.86	109.04	
BT	5044.99	109.86	109.04	5045.	109.86	109.86	5050.	111.43	111.43	
BT	5075.3	112.	112.	5255.	116.	116.	5545.	120.	120.	
BT	5637.8	124.	124.	5656.6	128.	128.	5769.1	132.	132.	
BT	5800.4	136.	136.	5825.4	140.	140.				
GR140.	4382.2	136.	4482.	132.	4594.5	128.	4707.	124.	4830.	
GR120.	4920.	116.	4945.	112.	4985.	111.45	4990.	109.9	5000.	
GR108.585000.01	108.58	5001.	107.98	5001.01	107.98	5002.	105.79	5002.01	5002.01	
GR104.535002.02	103.49	5019.99	103.49	5020.	103.49	5021.	103.49	5022.	5022.	
GR103.495022.01	103.93	5030.	104.85	5040.	105.79	5042.59	108.05	5042.6	5042.6	

	X111887.25.	5000.	5023.75	1.0	1.0	1.0	110.39	111.64
X310.								
X41.0	116.14	5153.					4921.	116.4946.
GR132.	4826.	128.	4849.	124.	4880.	120.	5001.	108.58 5002.
GR112.	4974.	112.72	4984.	110.39	5000.	110.09	5011.3	105.77 5012.
GR108.	595002.7	103.86	5005.7	105.46	5010.6	105.69	5032.85	112. 5065.75
GR107.	5023.	109.26	5023.5	111.08	5023.75	111.38	5828.75	132. 5887.8
GR116.	5136.75	120.	5596.75	124.	5766.75	128.	0.15	5596.75 0.2
NH5.0	0.085	5000.	0.053	5023.75	0.065	5153.		
NH5887.8								
X111906.								
NCO.1	0.1	0.05	0.1	19.3	19.3	19.3	0.04	
NH7.0	0.2	5035.	0.09	5376.5	0.085	5760.	0.053	5783. 0.085
NH5848.	0.15	5908.	0.2	6046.				
X114980.29.								
X41.0	121.29	5376.5						
GR150.	5000.	148.	5005.	144.	5025.	143.	5035.	140. 5052.
GR136.	5070.	132.	5090.	128.	5112.	124.	5232.	121. 5392.
GR121.	5477.	121.	5645.	120.	5700.	118.	5718.	116. 5726.
GR112.	5734.	109.	5752.	109.	5770.	112.	5775.	114. 5778.
GR116.	5783.	120.	5848.	121.	5873.	124.	5908.	126. 5920.
GR140.	5945.	144.	5995.	150.	6013.	169.	6046.	
NH6.0	0.2	5045.	0.085	5081.	0.053	5159.	0.085	5527. 0.13
NH5746.	0.2	5779.						
X115130.33.								
X41.0	127.	5081.						
GR155.	5000.	148.	5015.	140.	5025.	124.	5045.	122. 5050.
GR121.	5081.	118.	5083.	115.	5086.	113.5	5090.	113.8 5100.
GR114.	5110.	115.	5118.	117.	5122.	117.	5131.	122.4 5152.
GR126.	5159.	119.	5199.	119.	5244.	120.	5264.	124. 5284.
GR125.	5294.	127.	5424.	127.	5609.	128.	5644.	132. 5679.
GR134.	5704.	136.	5714.	140.	5719.	152.	5734.	153. 5746.
GR151.	5756.	156.	5764.	168.	5779.			
EJ								
T1	HAYES, SEAY, MATTERN & MATTERN							
T2	FILENAME: NC.NEC							
T3	LITTLE M & MULBERRY CREEK, CALDWELL CO., NC							
J1	3.0							
J22.0	-1.							
T1	HAYES, SEAY, MATTERN & MATTERN							
T2	FILENAME: NC.NEC							
T3	LITTLE M & MULBERRY CREEK, CALDWELL CO., NC							
J1	4.0							
J23.0	-1.							
T1	HAYES, SEAY, MATTERN & MATTERN							
T2	FILENAME: NC.NEC							
T3	LITTLE M & MULBERRY CREEK, CALDWELL CO., NC							
J1	5.0							
J215.	-1.							

ER

THIS RUN EXECUTED 01-28-86 12:08:02

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

C
 T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 MULBERRY CREEK, CALDWELL CO., NC DATE: 1/25/86 20 YEAR EVENT

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	6.	0.	0.	004840	.00	.0	0.	81.000	.000

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	.000	-1.000	.000	.000	.000	1.09	.000	.000	.000

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.000	39.000	1.000	51.000	55.000	26.000	56.000	13.000	14.000	15.000
43.000	46.000	47.000	.000	38.000	39.000	1.000	42.000	53.000	21.000
22.000	54.000	4.000	27.000	28.000	36.000	.000	.000	.000	.000

J5 LPRNT NUMSEC *****REQUESTED SECTION NUMBERS*****

-10.000	-10.000	.000	.000	.000	.000	.000	.000	.000	.000
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J6 IHLEQ ICOPY

1.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
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QT	57.000	4529.000	8735.000	12846.000	27820.000	6010.000	-3945.000	-2572.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	6.000	.200	4596.000	.130	4856.000	.080	5000.000	.055	5042.000	.080
NH	5062.000	.150	5162.000	.000	.000	.000	.000	.000	.000	.000

ADD 1000 FEET TO OBTAIN TRUE ELEVATION

1ST. BRIDGE X-SECTION FOR BRIDGE # 1.

X1	140.000	22.000	5000.000	5042.000	151.000	151.000	151.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	85.010	86.000	.000
X4	2.000	90.210	4596.000	87.030	4856.000	.000	.000	.000	.000	.000
GR	112.000	4104.500	108.000	4114.500	104.000	4124.500	100.000	4144.500	96.000	4332.000
GR	92.000	4410.000	88.000	4820.000	85.010	5000.000	80.320	5002.000	79.560	5010.000
GR	79.330	5020.000	78.410	5030.000	79.180	5040.000	81.450	5041.000	83.910	5042.000
GR	86.000	5062.000	84.000	5092.000	80.000	5102.000	80.000	5132.000	84.000	5142.000

NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	6.000	.200	5595.000	.130	6165.000	.080	6561.000	.055	6646.000	.080
NH	6826.000	.150	7007.000	.000	.000	.000	.000	.000	.000	.000

X-SECTION MA

X1	2210.000	57.000	6561.000	6646.000	2013.000	2013.000	2013.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	94.000	94.000	.000
GR	120.000	5000.000	112.000	5050.000	108.000	5080.000	112.000	5100.000	113.000	5190.000
GR	112.000	5265.000	110.000	5300.000	108.000	5335.000	107.000	5395.000	105.000	5455.000
GR	104.000	5500.000	102.000	5535.000	100.000	5565.000	96.000	5575.000	95.000	5585.000
GR	96.000	5595.000	100.000	5610.000	100.000	5635.000	100.000	5665.000	99.000	5745.000
GR	98.000	5825.000	98.000	5915.000	97.000	6000.000	96.000	6075.000	94.000	6100.000
GR	92.000	6135.000	88.000	6140.000	86.600	6150.000	88.000	6155.000	92.000	6165.000
GR	93.000	6190.000	93.000	6265.000	94.000	6390.000	94.000	6475.000	92.000	6525.000
GR	92.000	6561.000	89.000	6566.000	87.000	6567.000	86.000	6571.000	86.000	6581.000
GR	86.500	6591.000	86.500	6601.000	87.000	6607.000	88.000	6609.000	89.000	6631.000
GR	92.000	6646.000	94.000	6666.000	96.000	6696.000	97.000	6766.000	98.000	6826.000
GR	98.000	6864.000	100.000	6884.000	102.000	6904.000	104.000	6922.000	106.000	6957.000
GR	108.000	6987.000	112.000	7007.000	.000	.000	.000	.000	.000	.000
QT	7.000	4496.000	8677.000	12766.000	27694.000	5967.000	3887.000	2552.000	.000	.000
NH	6.000	.200	4698.000	.130	4888.000	.080	5000.000	.055	5140.000	.080
NH	5323.000	.150	5359.000	.000	.000	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 2.
 ELLC = 106.27 ETRD = 109.65 SKEW ANGLE = 85.

X1	3782.200	24.000	5000.000	5140.000	1572.200	1572.200	1572.200	.000	-1.090	.000
X4	3.000	104.110	4698.000	97.910	4888.000	106.900	5323.000	.000	.000	.000
GR	107.000	4600.000	106.300	4640.000	106.300	4660.000	103.000	4840.000	98.000	5000.000
GR	97.000	5010.000	96.000	5025.000	93.800	5045.000	90.760	5077.000	90.150	5090.000
GR	89.810	5100.000	89.970	5111.500	89.970	5111.510	89.970	5111.990	89.970	5112.000
GR	89.970	5113.000	89.970	5113.010	89.970	5113.490	89.970	5113.500	90.760	5119.000
GR	96.700	5140.000	97.300	5150.000	99.000	5219.000	111.000	5359.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	6.000	.200	4698.000	.130	4888.000	.080	5000.000	.055	5150.000	.080
NH	5323.000	.150	5359.000	.000	.000	.000	.000	.000	.000	.000
X1	4365.200	.000	.000	.000	583.000	583.000	583.000	.000	1.090	.000
X3	10.000	.000	.000	.000	.000	.000	.000	110.000	110.000	.000
X4	3.000	105.200	4698.000	99.000	4888.000	107.900	5323.000	.000	.000	.000
NH	3.000	.130	5000.000	.055	5125.000	.150	5359.000	.000	.000	.000

BRIDGE # 2, ABINGTON RD. SR1310
 NOTE : PLEASE CHECK THE LAST THREE BT POINTS

X1	4366.200	39.000	5000.000	5125.000	1.000	1.000	1.000	.000	.000	.000
BT	-39.000	4660.000	110.000	110.000	4800.000	110.000	110.000	4913.000	109.840	104.000
BT	.000	5000.000	109.650	100.600	5000.010	112.510	100.600	5009.990	112.510	100.000
BT	.000	5010.000	112.510	106.250	5025.000	112.510	106.200	5045.000	112.510	106.130
BT	.000	5051.500	112.510	106.110	5051.510	112.510	103.610	5051.990	112.510	103.610

BT	.000	5052.000	112.510	93.790	5053.000	112.510	93.790	5053.010	112.510	103.610
BT	.000	5053.490	112.510	103.610	5053.500	112.510	106.110	5077.000	112.510	106.110
BT	.000	5090.000	112.510	106.100	5100.000	112.510	106.100	5111.500	112.510	106.100
BT	.000	5111.510	112.510	103.600	5111.990	112.510	103.600	5112.000	112.510	89.970
BT	.000	5113.000	112.510	89.970	5113.010	112.510	89.970	5113.490	112.510	103.600
BT	.000	5113.500	112.510	106.100	5119.000	112.510	106.120	5125.000	112.510	106.150
BT	.000	5143.000	112.510	106.230	5143.010	112.510	96.700	5150.000	112.510	100.000
BT	.000	5153.700	112.510	100.600	5153.710	109.760	100.600	5213.000	111.790	104.000
BT	.000	5219.000	112.000	105.000	5323.000	110.510	108.000	5359.000	110.000	110.000
GR	110.000	4660.000	110.000	4800.000	104.000	4913.000	100.600	9000.000	100.600	5000.010
GR	100.000	5009.990	100.000	5010.000	98.800	5025.000	93.800	5045.000	93.790	5051.500
GR	93.790	5051.510	93.790	5051.990	93.790	5052.000	93.790	5053.000	93.790	5053.010
GR	93.790	5053.490	93.790	5053.500	90.760	5077.000	90.150	5090.000	89.810	5100.000
GR	89.970	5111.500	89.970	5111.510	89.970	5111.990	89.970	5112.000	89.970	5113.000
GR	89.970	5113.010	89.970	5113.490	89.970	5113.500	90.760	5119.000	97.180	5125.000
GR	96.700	5143.000	96.700	5143.010	100.000	5150.000	100.600	5153.700	100.600	5153.710
GR	104.000	5213.000	105.000	5219.000	108.000	5323.000	110.000	5359.000	.000	.000
NH	3.000	.150	5000.000	.055	5125.000	.150	5359.000	.000	.000	.000
X1	4393.800	.000	.000	.000	27.600	27.600	27.600	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000

NH	3.000	.150	5000.000	.055	5125.000	.150	5359.000	.000	.000	.000
X1	4393.800	.000	.000	.000	27.600	27.600	27.600	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
NH	3.000	.150	5000.000	.055	5125.000	.150	5359.000	.000	.000	.000
X1	4393.800	18.000	5000.000	5125.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	110.000	110.000	.000
GR	110.000	4660.000	110.000	4800.000	104.000	4913.000	100.600	9000.000	100.000	5010.000
GR	98.800	5025.000	94.000	5050.000	90.760	5077.000	90.150	5090.000	89.810	5100.000
GR	89.970	5111.500	89.970	5111.510	89.970	5111.990	89.970	5112.000	89.970	5100.000
GR	89.970	5113.010	89.970	5113.490	89.970	5113.500	90.760	5119.000	100.000	5150.000
GR	96.700	5143.000	96.700	5143.010	100.000	5150.000	100.600	5153.700	100.000	.000
GR	105.000	5219.000	108.000	5323.000	110.000	5359.000	110.000	5359.000	.000	.000
NH	3.000	.150	5000.000	.055	5125.000	.150	5359.000	.000	.000	.000
X1	4539.800	.000	.000	.000	145.000	145.000	145.000	.000	.140	.000
NH	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	7.000	.200	5086.000	.140	5284.000	.085	5528.000	.050	5637.000	.085
NH	5770.000	.150	5976.000	.200	6325.000	.000	.000	.000	.000	.000

LAST X-SECTION FOR BRIDGE # 2.

X-SECTION FOR NB.

X1	6320.000	37.000	5528.000	5637.000	1780.200	1780.200	1780.200	.000	.000	.000
X4	1.000	112.670	5976.000	.000	.000	.000	.000	.000	.000	.000
GR	140.000	5000.000	125.000	5015.000	5020.000	5020.000	116.000	5030.000	112.000	5045.000
GR	104.000	5056.000	100.000	5070.000	5086.000	5086.000	105.000	5126.000	106.000	5214.000
GR	104.000	5264.000	101.000	5352.000	5487.000	5487.000	100.000	5528.000	94.000	5540.000
GR	93.000	5540.010	91.700	5543.000	92.000	5553.000	92.700	5563.000	92.800	5573.000
GR	93.000	5583.000	92.800	5593.000	92.600	5603.000	93.000	5608.000	100.000	5637.000
GR	104.000	5689.000	108.000	5770.000	112.000	5892.000	112.000	5944.000	116.000	6134.000
GR	119.000	6154.000	120.000	6176.000	124.000	6200.000	128.000	6232.000	132.000	6297.000
GR	136.000	6315.000	140.000	6325.000	.000	.000	.000	.000	.000	.000

GT	7.000	4368.000	8455.000	12457.000	27122.000	5805.000	3774.000	2473.000	.000	.000
NH	6.000	.200	5118.500	.085	5130.000	.050	5210.000	.085	.150	.000
NH	6338.500	.200	6573.000	.000	.000	.000	.000	.000	.000	.000
X-SECTION FOR MC.										
X1	8430.000	35.000	5130.000	5210.000	2110.000	2110.000	2110.000	.000	.000	.000
X4	2.000	107.210	5118.500	120.410	6338.500	.000	.000	.000	.000	.000
GR	140.000	5000.000	137.000	5010.000	120.000	5040.000	116.000	5055.000	172.000	5070.000
GR	108.000	5085.000	106.000	5095.000	107.800	5130.000	103.000	5140.000	102.000	5144.000
GR	101.000	5145.000	100.700	5150.000	102.000	5160.000	101.300	5170.000	100.400	5180.000
GR	100.500	5190.000	101.000	5192.000	102.900	5195.000	104.000	5200.000	108.000	5210.000
GR	107.000	5260.000	108.000	5475.000	108.000	5570.000	110.000	5710.000	112.000	5795.000
GR	116.000	5930.000	120.000	6045.000	124.000	6150.000	120.000	6360.000	124.000	6385.000
GR	134.000	6405.000	134.000	6420.000	136.000	6495.000	139.000	6535.000	140.000	6573.000
NH	7.000	.200	4594.500	.180	4932.000	.085	5000.010	.050	5044.000	.085
NH	5272.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 3.
 ELLC = 107.98 ETRD = 109.57 SKEW ANGLE = 80.

X1	10692.000	32.000	5000.010	5044.000	2241.600	2241.600	2241.600	.000	.210	.000
X4	2.000	117.870	4932.000	115.790	5272.000	.000	.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	108.580	5000.010	107.980	5001.010
GR	105.790	5002.010	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000
GR	103.490	5022.000	103.490	5022.010	103.900	5029.000	103.930	5030.000	104.800	5039.000
GR	104.850	5040.000	105.790	5042.990	108.050	5044.000	111.430	5050.000	112.000	5075.300
GR	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600	132.000	5769.100
GR	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	7.000	.200	4594.500	.180	4932.000	.085	5000.010	.050	5044.000	.085
NH	5272.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000
X1	10853.000	.000	.000	.000	161.400	161.400	161.400	.000	.210	.000
X3	10.000	.000	.000	.000	.000	.000	.000	109.650	109.760	.000
X4	2.000	118.080	4594.500	116.000	5272.000	.000	.000	.000	.000	.000
NH	7.000	.200	4547.000	.180	4945.000	.085	5000.000	.050	5045.000	.085
NH	5282.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000

BRIDGE # 3, PRIVATE BRIDGE.

X1	10854.000	38.000	5000.000	5045.000	1.000	1.000	1.000	.000	.000	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000
BT	-35.000	4382.200	140.000	140.000	4482.000	136.000	136.000	4594.500	132.000	132.000
BT	.000	4707.000	128.000	128.000	4830.000	124.000	124.000	4920.000	120.000	120.000
BT	.000	4945.000	116.000	116.000	4985.000	112.000	112.000	4990.000	111.450	111.450
BT	.000	5000.000	109.900	109.900	5000.010	109.900	108.580	5001.000	109.900	108.580
BT	.000	5001.010	110.160	107.980	5002.000	110.160	107.980	5019.990	107.270	107.270
BT	.000	5020.000	109.590	103.490	5021.000	109.570	103.490	5022.000	109.600	103.490
BT	.000	5022.010	109.600	107.270	5030.000	109.640	107.550	5040.000	110.150	107.950

BT	.000	5042.600	110.230	108.050	5044.000	110.270	108.050	5044.010	109.860	109.040
BT	.000	5044.990	109.860	109.040	5045.000	109.860	109.860	5050.000	111.430	111.430
BT	.000	5075.300	112.000	112.000	5255.000	116.000	116.000	5545.000	120.000	120.000
BT	.000	5637.800	124.000	124.000	5656.600	128.000	128.000	5769.100	132.000	132.000
BT	.000	5800.400	136.000	136.000	5825.400	140.000	140.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	111.450	4990.000	109.900	5000.000
GR	108.580	5000.010	108.580	5001.000	107.980	5001.010	107.980	5002.000	105.790	5002.010
GR	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000	103.490	5022.000
GR	103.490	5022.010	103.930	5030.000	104.850	5040.000	105.790	5042.590	108.050	5042.600
GR	108.050	5044.000	109.040	5044.010	109.040	5044.990	109.860	5045.000	111.430	5050.000
GR	112.000	5075.300	115.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600
GR	132.000	5769.100	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000

NH	7.000	.200	4547.000	.180	4945.000	.085	5000.000	.050	5045.000	.085
NH	5282.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000
X1	10866.000	.000	.000	.000	12.000	12.000	12.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000

NH	7.000	.200	4547.000	.180	4945.000	.085	5000.010	.050	5050.000	.085
NH	5282.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000
X1	10867.000	32.000	5000.010	5050.000	1.000	1.000	1.000	.000	.000	.000
X2	10.000	.000	.000	.000	.000	.000	.000	109.650	109.760	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	108.580	5000.010	107.980	5001.010
GR	105.790	5002.010	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000
GR	103.490	5022.000	103.490	5022.010	103.900	5029.000	103.930	5030.000	104.800	5039.000
GR	104.850	5040.000	105.790	5042.590	108.050	5044.000	111.430	5050.000	112.000	5075.300
GR	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600	132.000	5769.100
GR	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000	.000	.000

NH	7.000	.200	4547.000	.180	4945.000	.085	5000.010	.050	5050.000	.085
NH	5282.000	.150	5656.600	.200	5825.400	.000	.000	.000	.000	.000

LAST X-SECTION FOR BRIDGE # 3.

X1	10907.000	.000	.000	.000	39.600	39.600	39.600	.000	.250	.000
X4	2.000	133.940	4547.000	116.620	5282.000	.000	.000	.000	.000	.000

NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	5.000	.085	5000.000	.053	5023.750	.085	5136.750	.150	5578.000	.200
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 4.

ELLC = 109.26 ETRD = 111.31 SKEW ANGLE = 25.

X1	11793.000	25.000	5000.000	5023.750	933.000	933.000	933.000	.000	.030	.000
X4	1.000	119.810	5578.000	.000	.000	.000	.000	.000	.000	.000
GR	132.000	4826.000	128.000	4849.000	124.000	4880.000	120.000	4921.000	116.000	4946.000
GR	113.000	4974.000	112.720	4984.000	110.390	5000.000	110.090	5001.000	108.580	5002.000
GR	106.000	5003.000	103.860	5005.700	105.460	5010.600	105.690	5011.300	105.770	5012.000
GR	107.000	5023.000	109.260	5023.500	111.080	5023.750	111.380	5032.850	112.000	5065.750

THIS RUN EXECUTED 01-28-86 12:09:31

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

T1 HAYES,SEAY. MATTERN & MATTERN CALDWELL CO/LENOIR. NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 LITTLE M & MULBERRY CREEK, CALDWELL CO.,NC DATE:01/25/86 7-YEAR EVENT

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	α	WSEL	FQ
	0.	7.	0.	0.	.004840	.00	.0	0.	81.000	.000
J2	NPROF	IPLOT	PRFVS	XSECV	XTECH	FN	ALLDC	IBW	CRNIM	ITRACE
	2.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

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.

THIS RUN EXECUTED 01-28-86 12:10:17

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 LITTLE M & MULBERRY CREEK, CALDWELL CO., NC DATE:01/25/86 2.5-YEAR EVENT

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	8.	0.	0.	.004840	.06	LO	0.	61.000	.000
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

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

THIS RUN EXECUTED 01-28-86 12:11:02

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

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

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT

SECNO	XLCH	CWSEL	DIFWSX	VLOB	VCH	VROB	QLOB	QCH	QROB	Q	QWEIR	QPR
140.000	.00	89.04	.00	2.32	7.71	2.60	1258.45	3087.06	1664.49	6010.00	.00	.00
140.000	.00	87.66	.00	1.76	6.95	2.26	427.01	2381.74	1106.24	3915.00	.00	.00
140.000	.00	86.39	.00	1.01	6.24	1.97	68.45	1803.81	699.74	2572.00	.00	.00
141.000	1.00	89.29	.26	2.04	5.84	4.59	1266.04	1670.50	3073.46	6010.00	.00	.00
141.000	1.00	87.90	.24	1.69	5.38	4.28	480.82	1223.26	2210.92	3915.00	.00	.00
141.000	1.00	86.62	.23	2.48	4.79	3.96	230.41	833.50	1508.09	2572.00	.00	.00
159.000	18.00	89.59	.30	1.92	5.45	4.28	1378.75	1626.30	3004.95	6010.00	.00	.00
159.000	18.00	88.23	.33	1.62	4.94	3.92	562.16	1191.66	2161.18	3915.00	.00	.00
159.000	18.00	86.99	.36	2.37	4.23	3.45	329.45	800.05	1442.49	2572.00	.00	.00
160.000	1.00	89.54	-.05	2.09	6.90	2.35	1460.90	2908.89	1640.21	6010.00	.00	.00
160.000	1.00	88.18	-.05	1.73	6.12	2.02	582.11	2230.79	1102.11	3915.00	.00	.00
160.000	1.00	86.93	-.06	1.06	5.49	1.75	138.93	1711.85	721.22	2572.00	.00	.00
197.000	37.00	89.67	.13	2.12	6.99	2.38	1437.54	2929.14	1643.31	6010.00	.00	.00
197.000	37.00	88.31	.12	1.74	6.21	2.04	563.12	2248.97	1102.91	3915.00	.00	.00
197.000	37.00	87.05	.12	1.06	5.57	1.77	129.31	1723.49	719.20	2572.00	.00	.00
2210.000	2013.00	95.82	6.16	1.75	5.21	1.54	2388.07	3496.45	125.48	6010.00	.00	.00
2210.000	2013.00	94.62	6.31	1.41	4.87	1.25	1102.56	2768.22	44.22	3915.00	.00	.00
2210.000	2013.00	93.94	6.89	.00	5.03	.00	.00	2572.00	.00	2572.00	.00	.00
3782.200	1572.20	99.52	3.70	1.41	4.97	1.64	353.53	5250.82	362.65	5967.00	.00	.00
3782.200	1572.20	98.29	3.68	.77	4.17	1.08	77.20	3691.05	118.75	3887.00	.00	.00
3782.200	1572.20	97.48	3.53	.31	3.26	.68	5.42	2514.28	32.30	2552.00	.00	.00
4365.200	583.00	100.90	1.38	.00	5.43	.00	.00	5967.00	.00	5967.00	.00	.00
4365.200	583.00	99.50	1.21	.00	4.31	.00	.00	3887.00	.00	3887.00	.00	.00
4365.200	583.00	98.41	.94	.00	3.41	.00	.00	2552.00	.00	2552.00	.00	.00

SECNO	XLCH	CWSEL	DIFMSX	VLOB	VCH	VROB	QLOB	QCH	QROB	Q	QWEIR	QPR
4366.200	1.00	100.76	-.14	.00	7.00	1.79	.00	5843.72	123.28	5967.00	.00	.00
4366.200	1.00	99.41	-.09	.00	5.60	1.17	.00	3835.20	51.80	3887.00	.00	.00
4366.200	1.00	98.36	-.06	.00	4.37	.66	.00	2535.18	16.82	2552.00	.00	.00
4393.800	27.60	100.96	.20	.00	6.81	1.77	.00	5838.68	128.32	5967.00	.00	.00
4393.800	27.60	99.55	.14	.00	5.48	1.18	.00	3831.68	55.32	3887.00	.00	.00
4393.800	27.60	98.44	.09	.00	4.31	.67	.00	2533.83	18.17	2552.00	.00	.00
4394.800	1.00	100.95	-.01	.00	6.85	.00	.00	5967.00	.00	5967.00	.00	.00
4394.800	1.00	99.54	.00	.00	5.53	.00	.00	3887.00	.00	3887.00	.00	.00
4394.800	1.00	98.44	.00	.00	4.33	.00	.00	2552.00	.00	2552.00	.00	.00
4539.800	145.00	101.77	.82	.38	6.08	1.32	5.10	5807.64	154.26	5967.00	.00	.00
4539.800	145.00	100.12	.58	.00	5.09	.98	.00	3830.69	56.31	3887.00	.00	.00
4539.800	145.00	98.81	.37	.00	4.14	.55	.00	2537.13	14.36	2552.00	.00	.00
6320.000	1780.20	104.87	3.10	.83	4.50	1.08	518.65	5279.19	169.16	5967.00	.00	.00
6320.000	1780.20	102.94	2.22	.53	3.89	.71	92.90	3753.93	40.17	3887.00	.00	.00
6320.000	1780.20	101.23	2.42	.26	3.28	.38	3.51	2544.68	3.81	2552.00	.00	.00
8430.000	2110.00	109.86	4.99	1.14	6.83	1.75	158.01	4036.05	1610.94	5805.00	.00	.00
8430.000	2110.00	108.63	5.68	.86	6.63	1.19	66.28	3264.79	442.94	3774.00	.00	.00
8430.000	2110.00	106.65	5.42	.32	7.30	.00	1.66	2471.34	.00	2473.00	.00	.00
10692.000	2241.60	116.54	6.68	2.27	7.41	1.87	472.65	4036.21	1296.14	5805.00	.00	.00
10692.000	2241.60	115.12	6.49	1.79	6.24	1.40	234.87	3014.43	524.70	3774.00	.00	.00
10692.000	2241.60	113.67	7.02	1.45	5.26	1.04	103.35	2204.17	165.48	2473.00	.00	.00
10853.000	161.40	117.00	.46	2.20	7.06	1.81	490.93	3926.59	1387.49	5805.00	.00	.00
10853.000	161.40	115.48	.36	1.75	6.09	1.38	242.36	2977.51	554.13	3774.00	.00	.00
10853.000	161.40	113.96	.30	1.43	5.18	1.04	106.61	2190.71	175.67	2473.00	.00	.00
10854.000	1.00	117.36	.37	3.48	5.18	2.99	819.87	2438.12	2547.01	5805.00	.00	.00
10854.000	1.00	115.67	.20	3.29	5.40	2.77	451.59	2133.00	1189.41	3774.00	.00	.00
10854.000	1.00	113.94	-.03	3.33	5.85	2.61	207.95	1854.40	410.64	2473.00	.00	.00
10866.000	12.00	117.44	.08	3.42	5.08	2.94	823.47	2410.73	2570.80	5805.00	.00	.00
10866.000	12.00	115.79	.12	3.20	5.24	2.71	458.21	2094.25	1221.53	3774.00	.00	.00
10866.000	12.00	114.15	.21	3.16	5.50	2.51	220.97	1793.34	458.69	2473.00	.00	.00
10867.000	1.00	117.35	-.09	2.08	6.34	1.70	511.15	3914.94	1378.90	5805.00	.00	.00
10867.000	1.00	115.75	-.04	1.68	5.57	1.27	255.60	2988.98	529.42	3774.00	.00	.00
10867.000	1.00	114.23	.08	1.39	4.76	.92	116.59	2195.23	161.18	2473.00	.00	.00
10907.000	39.60	117.41	.06	2.14	6.57	1.74	498.99	3993.32	1312.69	5805.00	.00	.00
10907.000	39.60	115.80	.05	1.73	5.76	1.29	245.97	3037.07	490.96	3774.00	.00	.00
10907.000	39.60	114.28	.05	1.43	4.93	.93	109.67	2223.82	139.51	2473.00	.00	.00
11793.000	933.00	119.63	2.22	2.72	6.33	1.81	1044.85	2021.34	2738.81	5805.00	.00	.00
11793.000	933.00	117.92	2.12	2.40	5.95	1.94	626.89	1657.78	1489.34	3774.00	.00	.00
11793.000	933.00	116.29	2.01	2.07	5.70	2.09	334.88	1367.79	770.33	2473.00	.00	.00

SECHO	XLCH	CHSEL	DIFWSX	VLOB	VCH	VROB	QLOB	QCH	QROB	Q	QMEII	CPR
11873.000	80.20	119.84	.21	2.61	6.04	1.75	1037.85	1952.67	2814.48	5805.00	.00	.00
11873.000	80.20	118.15	.22	2.30	5.66	1.84	632.00	1603.22	1539.78	3774.00	.00	.00
11873.000	80.20	116.54	.25	1.99	5.40	1.98	347.91	1323.83	801.26	2473.00	.00	.00
11874.000	1.00	119.98	.14	3.38	4.01	1.96	1383.80	1104.03	3317.17	5805.00	.00	.00
11874.000	1.00	118.30	.16	3.05	3.77	2.23	870.55	886.32	2017.13	3774.00	.00	.00
11874.000	1.00	116.70	.16	2.85	3.78	2.77	524.78	745.12	1203.10	2473.00	.00	.00
11886.000	11.60	120.03	.04	3.36	3.99	1.94	1384.16	1099.95	3320.89	5805.00	.00	.00
11886.000	11.60	118.35	.05	3.02	3.73	2.23	871.60	881.61	2020.78	3774.00	.00	.00
11886.000	11.60	115.76	.06	2.82	3.73	2.72	526.77	738.85	1207.38	2473.00	.00	.00
11887.000	1.00	119.98	-.04	2.54	5.87	1.69	1040.21	1916.91	2847.89	5805.00	.00	.00
11887.000	1.00	118.30	-.05	2.24	5.47	1.76	638.12	1568.45	1567.43	3774.00	.00	.00
11887.000	1.00	116.71	-.05	1.94	5.18	1.89	357.34	1291.31	824.35	2473.00	.00	.00
11906.000	19.30	120.02	.04	2.54	5.86	1.69	1040.27	1915.95	2848.78	5805.00	.00	.00
11906.000	19.30	118.34	.04	2.23	5.46	1.75	638.35	1567.08	1568.57	3774.00	.00	.00
11906.000	19.30	116.75	.04	1.94	5.18	1.89	357.39	1291.14	824.47	2473.00	.00	.00
14980.000	3074.00	124.04	4.02	1.09	4.16	1.50	1311.58	3694.16	799.26	5805.00	.00	.00
14980.000	3074.00	122.50	4.16	.73	3.81	1.33	403.37	2898.09	472.54	3774.00	.00	.00
14980.000	3074.00	121.10	4.35	.28	3.44	1.13	16.25	2213.04	243.71	2473.00	.00	.00
15130.000	150.00	124.20	.16	2.37	7.22	3.27	212.22	4022.44	1570.34	5805.00	.00	.00
15130.000	150.00	122.72	.22	1.42	6.52	2.67	54.70	2904.17	815.14	3774.00	.00	.00
15130.000	150.00	121.36	.26	.42	6.03	2.08	.85	2117.51	354.64	2473.00	.00	.00

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT

SECCNO	XLCH	CMSEL	ELMIN	SSTA	STCHL	STCHR	ENDST	TOPWD	STENCL	STENCR	PERENC
140.000	.00	89.04	78.41	4715.02	5000.00	5042.00	5153.11	438.09	.00	.00	.00
140.000	.00	87.66	78.41	4832.70	5000.00	5042.00	5149.32	316.62	.00	.00	.00
140.000	.00	86.39	78.41	4901.88	5000.00	5042.00	5146.77	244.89	.00	.00	.00
141.000	1.00	89.29	78.41	4688.53	5000.00	5042.00	5153.89	465.36	.00	.00	.00
141.000	1.00	87.90	78.41	4823.66	5000.00	5042.00	5149.80	326.14	.00	.00	.00
141.000	1.00	86.62	78.41	4884.82	5000.00	5042.00	5147.25	262.43	.00	.00	.00
159.000	18.00	89.59	78.41	4658.71	5000.00	5042.00	5154.77	496.07	.00	.00	.00
159.000	18.00	88.23	78.41	4796.69	5000.00	5042.00	5150.69	354.00	.00	.00	.00
159.000	18.00	86.99	78.41	4859.08	5000.00	5042.00	5147.97	288.89	.00	.00	.00
160.000	1.00	89.54	78.41	4664.15	5000.00	5042.00	5154.61	490.46	.00	.00	.00
160.000	1.00	88.18	78.41	4801.41	5000.00	5042.00	5150.55	349.14	.00	.00	.00
160.000	1.00	86.93	78.41	4863.18	5000.00	5042.00	5147.86	284.68	.00	.00	.00
197.000	37.00	89.67	78.60	4670.14	5000.00	5042.00	5154.44	484.29	.00	.00	.00
197.000	37.00	88.31	78.60	4808.05	5000.00	5042.00	5150.35	342.31	.00	.00	.00
197.000	37.00	87.05	78.60	4867.89	5000.00	5042.00	5147.73	279.84	.00	.00	.00
2210.000	2013.00	95.82	86.00	5576.75	6561.00	6646.00	6693.37	632.67	.00	.00	.00
2210.000	2013.00	94.62	86.00	6092.23	6561.00	6646.00	6675.32	583.09	.00	.00	.00
2210.000	2013.00	93.94	86.00	6561.00	6561.00	6646.00	6646.00	85.00	.00	.00	.00
3782.200	1572.20	99.52	88.72	4868.72	5000.00	5140.00	5237.58	368.86	.00	.00	.00
3782.200	1572.20	98.29	88.72	4883.37	5000.00	5140.00	5223.46	340.09	.00	.00	.00
3782.200	1572.20	97.48	88.72	4937.37	5000.00	5140.00	5201.11	263.74	.00	.00	.00
4365.200	583.00	100.90	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4365.200	583.00	99.50	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4365.200	583.00	98.41	89.81	5000.00	5000.00	5140.00	5140.00	140.00	.00	.00	.00
4366.200	1.00	100.76	89.81	4995.89	5000.00	5125.00	5156.51	160.63	.00	.00	.00
4366.200	1.00	99.41	89.81	5017.41	5000.00	5125.00	5148.74	131.33	.00	.00	.00
4366.200	1.00	98.36	89.81	5026.78	5000.00	5125.00	5146.52	119.74	.00	.00	.00
4393.800	27.60	100.96	89.81	4990.86	5000.00	5125.00	5159.94	169.08	.00	.00	.00
4393.800	27.60	99.55	89.81	5015.66	5000.00	5125.00	5149.04	133.38	.00	.00	.00
4393.800	27.60	98.44	89.81	5026.43	5000.00	5125.00	5146.70	120.27	.00	.00	.00
4394.800	1.00	100.95	89.81	5000.00	5000.00	5125.00	5125.00	125.00	.00	.00	.00
4394.800	1.00	99.54	89.81	5015.61	5000.00	5125.00	5125.00	109.39	.00	.00	.00
4394.800	1.00	98.44	89.81	5026.85	5000.00	5125.00	5125.00	98.15	.00	.00	.00
4539.800	145.00	101.77	89.95	4973.66	5000.00	5125.00	5172.48	198.82	.00	.00	.00
4539.800	145.00	100.12	89.95	5010.22	5000.00	5125.00	5149.95	139.73	.00	.00	.00
4539.800	145.00	98.81	89.95	5025.65	5000.00	5125.00	5146.43	120.78	.00	.00	.00

SECNO	XLCH	CWSEL	ELMIN	SSTA	STCHL	STCHR	ENDST	TOPWID	STENCIL	STENCR	PERENC
6320.000	1780.20	104.87	91.70	5054.81	5528.00	5637.00	5706.55	513.17	.00	.00	.00
6320.000	1780.20	102.94	91.70	5059.66	5528.00	5637.00	5675.40	304.00	.00	.00	.00
6320.000	1780.20	101.23	91.70	5065.68	5528.00	5637.00	5653.04	157.64	.00	.00	.00
8430.000	2110.00	109.86	103.40	5078.06	5130.00	5210.00	5699.51	621.44	.00	.00	.00
8430.000	2110.00	108.63	103.40	5082.66	5130.00	5210.00	5613.68	531.02	.00	.00	.00
8430.000	2110.00	106.65	100.40	5091.75	5130.00	5210.00	5206.63	90.11	.00	.00	.00
10692.000	2241.60	116.54	103.28	4940.35	5000.01	5044.00	5322.76	382.41	.00	.00	.00
10692.000	2241.60	115.12	103.28	4951.67	5000.01	5044.00	5225.02	273.35	.00	.00	.00
10692.000	2241.60	113.67	103.28	4966.24	5000.01	5044.00	5159.53	193.34	.00	.00	.00
10853.000	161.40	117.00	103.49	4938.77	5000.01	5044.00	5340.03	401.26	.00	.00	.00
10853.000	161.40	115.48	103.49	4950.21	5000.01	5044.00	5231.61	281.41	.00	.00	.00
10853.000	161.40	113.96	103.49	4965.31	5000.01	5044.00	5163.76	198.46	.00	.00	.00
10854.000	1.00	117.36	103.49	4936.43	5000.00	5045.00	5354.50	418.07	.00	.00	.00
10854.000	1.00	115.67	103.49	4948.24	5000.00	5045.00	5240.46	292.22	.00	.00	.00
10854.000	1.00	113.94	103.49	4965.60	5000.00	5045.00	5162.44	196.84	.00	.00	.00
10866.000	12.00	117.44	103.49	4935.98	5000.00	5045.00	5359.72	423.73	.00	.00	.00
10866.000	12.00	115.79	103.49	4947.10	5000.00	5045.00	5245.57	298.48	.00	.00	.00
10866.000	12.00	114.15	103.49	4963.50	5000.00	5045.00	5171.89	208.40	.00	.00	.00
10867.000	1.00	117.35	103.49	4936.55	5000.01	5050.00	5353.19	416.65	.00	.00	.00
10867.000	1.00	115.75	103.49	4947.55	5000.01	5050.00	5243.55	296.00	.00	.00	.00
10867.000	1.00	114.23	103.49	4962.74	5000.01	5050.00	5175.30	212.56	.00	.00	.00
10907.000	39.60	117.41	103.74	4937.76	5000.01	5050.00	5339.09	401.33	.00	.00	.00
10907.000	39.60	115.80	103.74	4949.51	5000.01	5050.00	5234.72	285.20	.00	.00	.00
10907.000	39.60	114.28	103.74	4964.74	5000.01	5050.00	5166.31	201.56	.00	.00	.00
11793.000	933.00	119.63	103.83	4923.13	5000.00	5023.75	5557.22	634.09	.00	.00	.00
11793.000	933.00	117.92	103.83	4933.81	5000.00	5023.75	5360.84	427.03	.00	.00	.00
11793.000	933.00	116.29	103.83	4944.00	5000.00	5023.75	5173.54	229.55	.00	.00	.00
11873.000	80.20	119.84	103.86	4921.99	5000.00	5023.75	5578.13	656.14	.00	.00	.00
11873.000	80.20	118.15	103.86	4932.59	5000.00	5023.75	5383.45	450.87	.00	.00	.00
11873.000	80.20	116.54	103.86	4942.62	5000.00	5023.75	5199.11	256.50	.00	.00	.00
11874.000	1.00	119.98	103.86	4921.10	5000.00	5023.75	5594.99	673.89	.00	.00	.00
11874.000	1.00	118.30	103.86	4931.60	5000.00	5023.75	5401.84	470.24	.00	.00	.00
11874.000	1.00	116.70	103.86	4941.62	5000.00	5023.75	5217.40	275.78	.00	.00	.00
11886.000	11.60	120.03	103.86	4920.84	5000.00	5023.75	5597.41	676.56	.00	.00	.00
11886.000	11.60	118.35	103.86	4931.36	5000.00	5023.75	5406.26	474.91	.00	.00	.00
11886.000	11.60	116.76	103.86	4941.32	5000.00	5023.75	5222.97	281.65	.00	.00	.00
11887.000	1.00	119.98	103.86	4921.12	5000.00	5023.75	5594.50	673.38	.00	.00	.00
11887.000	1.00	118.30	103.86	4931.62	5000.00	5023.75	5401.43	469.81	.00	.00	.00
11887.000	1.00	116.71	103.86	4941.55	5000.00	5023.75	5218.78	277.23	.00	.00	.00

SECNO	XLCH	CVSEL	ELMIN	SSTA	STCHL	STCHR	ENDST	TOPWID	STENCL	STENCR	PERENC
11906.000	19.30	120.02	103.90	4921.10	5000.00	5023.75	5594.94	673.84	.00	.00	.00
11906.000	19.30	118.34	103.90	4931.58	5000.00	5023.75	5402.14	470.56	.00	.00	.00
11906.000	19.30	116.75	103.90	4941.54	5000.00	5023.75	5218.89	277.34	.00	.00	.00
14980.000	3074.00	124.04	109.00	5230.94	5700.00	5783.00	5908.21	677.27	.00	.00	.00
14980.000	3074.00	122.50	109.00	5312.05	5700.00	5783.00	5890.48	578.43	.00	.00	.00
14980.000	3074.00	121.10	109.00	5386.66	5700.00	5783.00	5874.17	487.50	.00	.00	.00
15130.000	150.00	124.20	113.50	5044.75	5081.00	5159.00	5285.99	241.23	.00	.00	.00
15130.000	150.00	122.72	113.50	5048.20	5081.00	5159.00	5277.60	213.56	.00	.00	.00
15130.000	150.00	121.36	113.50	5069.76	5081.00	5159.00	5270.81	168.92	.00	.00	.00

LAST X-SECTION FOR BRIDGE # 1.

X1	197.000	.000	.000	.000	37.000	37.000	37.000	.000	.190	.000
X4	2.000	90.400	4596.000	87.220	4856.000	.000	.000	.000	.000	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	6.000	1.000	5595.000	.150	6165.000	.108	6561.000	.063	6646.000	.108
NH	6826.000	.170	7007.000	.000	.000	.000	.000	.000	.000	.000

X-SECTION MA

X1	2210.000	57.000	6561.000	6646.000	1503.000	2013.000	2013.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	94.000	94.000	.000
GR	120.000	5000.000	112.000	5050.000	108.000	5080.000	112.000	5100.000	113.000	5190.000
GR	112.000	5265.000	110.000	5300.000	108.000	5335.000	107.000	5395.000	105.000	5455.000
GR	104.000	5500.000	102.000	5535.000	100.000	5565.000	96.000	5575.000	95.000	5585.000
GR	96.000	5595.000	100.000	5610.000	100.000	5635.000	100.000	5665.000	99.000	5745.000
GR	98.000	5825.000	98.000	5915.000	97.000	6000.000	96.000	6075.000	94.000	6100.000
GR	92.000	6135.000	88.000	6140.000	86.600	6150.000	88.000	6155.000	92.000	6165.000
GR	93.000	6190.000	93.000	6265.000	94.000	6390.000	94.000	6475.000	92.000	6525.000
GR	92.000	6561.000	89.000	6566.000	87.000	6567.000	85.000	6571.000	86.000	6581.000
GR	86.500	6591.000	86.500	6601.000	87.000	6607.000	88.000	6609.000	89.000	6631.000
GR	92.000	6646.000	94.000	6666.000	95.000	6696.000	97.000	6766.000	98.000	6826.000
GR	98.000	6864.000	100.000	6884.000	102.000	6904.000	104.000	6922.000	106.000	6957.000
GR	108.000	6987.000	112.000	7007.000	.000	.000	.000	.000	.000	.000
QT	6.000	4496.000	8677.000	12766.000	27694.000	5967.000	12766.000	.000	.000	.000
NH	6.000	1.000	4698.000	.150	4888.000	.108	5000.000	.063	5140.000	.108
NH	5323.000	.180	5359.000	.000	.000	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 2.

ELLC = 106.27 ETRD = 109.65 SKEW ANGLE = 85.

X1	3782.200	25.000	5000.000	5140.000	1812.200	1492.200	1572.200	.000	-1.090	.000
X4	3.000	104.110	4698.000	97.910	4888.000	106.900	5323.000	.000	.000	.000
GR	112.000	4550.000	108.000	4600.000	106.300	4640.000	106.000	4660.000	103.000	4840.000
GR	98.000	5000.000	97.000	5010.000	96.000	5025.000	93.800	5045.000	90.760	5077.000
GR	90.150	5090.000	89.810	5100.000	89.970	5111.500	89.970	5111.510	89.970	5111.990
GR	89.970	5112.000	89.970	5113.000	89.970	5113.010	89.970	5113.490	89.970	5113.500
GR	90.760	5119.000	96.700	5140.000	97.300	5150.000	99.000	5219.000	112.000	5359.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	6.000	1.000	4698.000	.150	4888.000	.108	5000.000	.063	5140.000	.108
NH	5323.000	.170	5359.000	.000	.000	.000	.000	.000	.000	.000
X1	4365.200	.000	.000	.000	583.000	583.000	583.000	.000	1.090	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
X4	3.000	105.200	4698.000	99.000	4888.000	107.900	5323.000	.000	.000	.000
NH	3.000	.150	5000.000	.063	5153.710	.170	5625.000	.000	.000	.000

BRIDGE # 2, ABINGTON RD. SR1310

X1	4366.200	41.000	5000.000	5153.710	1.000	1.000	1.000	.000	.000	.000
BT	-41.000	4415.000	112.000	112.000	4660.000	110.000	110.000	4800.000	110.000	110.000
BT	.000	4913.000	109.840	104.000	5000.000	109.650	100.600	5000.010	112.510	100.600
BT	.000	5009.990	112.510	100.000	5010.000	112.510	106.250	5025.000	112.510	106.200
BT	.000	5045.000	112.510	106.130	5051.500	112.510	106.110	5051.510	112.510	103.610
BT	.000	5051.990	112.510	103.610	5052.000	112.510	93.790	5053.000	112.510	93.790
BT	.000	5053.010	112.510	103.610	5053.490	112.510	103.610	5053.500	112.510	106.110
BT	.000	5077.000	112.510	106.110	5090.000	112.510	106.100	5100.000	112.510	106.100
BT	.000	5111.500	112.510	106.100	5111.510	112.510	103.600	5111.990	112.510	103.600
BT	.000	5112.000	112.510	89.970	5113.000	112.510	89.970	5113.010	112.510	89.970
BT	.000	5113.490	112.510	103.600	5113.500	112.510	106.100	5119.000	112.510	106.120
BT	.000	5125.000	112.510	106.150	5143.000	112.510	106.230	5143.010	112.510	96.700
BT	.000	5150.000	112.510	100.000	5153.700	112.510	100.600	5153.710	109.760	100.600
BT	.000	5213.000	111.790	104.000	5219.000	112.000	105.000	5323.000	110.510	108.000
BT	.000	5359.000	110.000	110.000	5625.000	112.000	112.000	.000	.000	.000
GR	112.000	4415.000	110.000	4660.000	110.000	4800.000	104.000	4913.000	100.600	5000.000
GR	100.600	5000.010	100.000	5009.990	100.000	5010.000	98.800	5025.000	93.800	5045.000
GR	93.790	5051.500	93.790	5051.510	93.790	5051.990	93.790	5052.000	93.790	5053.000
GR	93.790	5053.010	93.790	5053.490	93.790	5053.500	90.760	5077.000	90.150	5090.000
GR	89.810	5100.000	89.970	5111.500	89.970	5111.510	89.970	5111.990	89.970	5112.000
GR	89.970	5113.000	89.970	5113.010	89.970	5113.490	89.970	5113.500	90.760	5119.000
GR	97.180	5125.000	96.700	5143.000	96.700	5143.010	100.000	5150.000	100.600	5153.700
GR	100.600	5153.710	104.000	5213.000	105.000	5219.000	108.000	5323.000	110.000	5359.000
GR	112.000	5625.000	.000	.000	.000	.000	.000	.000	.000	.000
NH	3.000	.150	5000.000	.063	5153.710	.170	5625.000	.000	.000	.000
X1	4393.800	.000	.000	.000	27.600	27.600	27.600	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
NH	3.000	.170	5000.000	.063	5143.000	.170	5625.000	.000	.000	.000
X1	4394.800	20.000	5000.000	5143.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	112.000	4415.000	110.000	4660.000	110.000	4800.000	104.000	4913.000	100.600	5000.000
GR	100.000	5010.000	98.800	5025.000	94.000	5050.000	90.760	5077.000	90.150	5090.000
GR	89.810	5100.000	89.970	5112.000	90.760	5119.000	97.200	5125.000	97.400	5143.000
GR	100.000	5150.000	105.000	5219.000	108.000	5323.000	110.000	5359.000	112.000	5625.000
NH	3.000	.170	5000.000	.063	5143.000	.170	5625.000	.000	.000	.000
LAST X-SECTION FOR BRIDGE # 2.										
X1	4539.800	.000	.000	.000	145.000	145.000	145.000	.000	.140	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	7.000	1.000	5086.000	.160	5284.000	.113	5528.000	.063	5637.000	.113
NH	5770.000	.170	5976.000	1.000	6325.000	.000	.000	.000	.000	.000

X-SECTION FOR MB.

X1	6320.000	37.000	5528.000	5637.000	1700.200	1675.200	1780.200	.000	.000	.000
X4	1.000	112.670	5976.000	.000	.000	.000	.000	.000	.000	.000
GR	140.000	5000.000	125.000	5015.000	120.000	5020.000	116.000	5030.000	112.000	5045.000
GR	104.000	5056.000	100.000	5070.000	104.000	5086.000	105.000	5126.000	106.000	5214.000
GR	104.000	5284.000	101.000	5352.000	105.000	5487.000	100.000	5528.000	94.000	5340.000
GR	93.000	5540.010	91.700	5543.000	92.000	5553.000	92.700	5563.000	92.800	5573.000
GR	93.000	5583.000	92.800	5593.000	92.600	5603.000	93.000	5608.000	100.000	5637.000
GR	104.000	5689.000	108.000	5770.000	112.000	5892.000	112.000	5944.000	116.000	6134.000
GR	119.000	6154.000	120.000	6176.000	124.000	6200.000	128.000	6232.000	132.000	6297.000
GR	136.000	6315.000	140.000	6325.000	.000	.000	.000	.000	.000	.000
QT	6.000	4368.000	8455.000	12457.000	27122.000	5805.000	12457.000	.000	.000	.000
NH	6.000	1.000	5118.500	.113	5130.000	.061	5210.000	.113	5710.000	.170
NH	6338.500	1.000	6573.000	.000	.000	.000	.000	.000	.000	.000

X-SECTION FOR MC.

X1	8430.000	35.000	5130.000	5210.000	1970.000	1930.000	2110.000	.000	.000	.000
X4	2.000	107.210	5118.500	120.410	6338.500	.000	.000	.000	.000	.000
GR	140.000	5000.000	137.000	5010.000	120.000	5040.000	116.000	5055.000	112.000	5070.000
GR	108.000	5085.000	106.000	5095.000	107.800	5130.000	103.000	5140.000	102.000	5144.000
GR	101.000	5145.000	100.700	5150.000	102.000	5160.000	101.300	5170.000	100.400	5180.000
GR	100.500	5190.000	101.000	5192.000	102.900	5195.000	104.000	5200.000	108.000	5210.000
GR	107.000	5260.000	108.000	5475.000	108.000	5570.000	110.000	5710.000	112.000	5795.000
GR	116.000	5930.000	120.000	6045.000	124.000	6150.000	120.000	6360.000	124.000	6385.000
GR	134.000	6405.000	134.000	6420.000	136.000	6495.000	139.000	6535.000	140.000	6573.000
NH	7.000	1.000	4594.500	.200	4932.000	.113	5000.010	.061	5044.000	.113
NH	5272.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 3.
 ELLC = 107.98 ETRD = 109.57 SKEW ANGLE = 80.

X1	10692.000	32.000	5000.010	5044.000	2121.600	2301.600	2261.600	.000	.210	.000
X4	2.000	117.870	4932.000	115.790	5272.000	.000	.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	108.580	5000.010	107.980	5001.010
GR	105.790	5002.010	104.530	5002.020	103.490	5019.990	103.470	5020.000	103.490	5021.000
GR	103.490	5022.000	103.490	5022.010	103.900	5029.000	103.930	5030.000	104.800	5039.000
GR	104.850	5040.000	105.790	5042.590	108.050	5044.000	111.430	5050.000	112.000	5075.300
GR	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600	132.000	5769.100
GR	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000	.000	.000
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
N4	7.000	1.000	4594.500	.200	4932.000	.113	5000.010	.060	5044.000	.113
NH	5272.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000
X1	10853.000	.000	.000	.000	161.400	161.400	161.400	.000	.210	.000
X3	10.000	.000	.000	.000	.000	.000	.000	109.650	109.760	.000
X4	2.000	118.080	4594.500	116.000	5272.000	.000	.000	.000	.000	.000

NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.000	.060	5045.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000

BRIDGE # 3, PRIVATE BRIDGE.

X1	10854.000	38.000	5000.000	5045.000	1.000	1.000	1.000	.000	.000	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000
BT	-35.000	4382.200	140.000	140.000	4482.000	136.000	136.000	4594.500	132.000	132.000
BT	.000	4707.000	128.000	128.000	4830.000	124.000	124.000	4920.000	120.000	120.000
BT	.000	4945.000	116.000	116.000	4985.000	112.000	112.000	4990.000	111.450	111.450
BT	.000	5000.000	109.900	109.900	5000.010	109.900	108.580	5001.000	109.900	108.580
BT	.000	5001.010	110.160	107.980	5002.000	110.160	107.980	5019.990	109.590	107.270
BT	.000	5020.000	109.590	103.490	5021.000	109.570	103.490	5022.000	109.600	103.490
BT	.000	5022.010	109.600	107.270	5030.000	109.840	107.550	5040.000	110.150	107.950
BT	.000	5042.600	110.250	108.050	5044.000	110.270	108.050	5044.010	109.860	109.040
BT	.000	5044.990	109.860	109.040	5045.000	109.860	109.860	5050.000	111.430	111.430
BT	.000	5075.300	112.000	112.000	5255.000	116.000	116.000	5545.000	120.000	120.000
BT	.000	5637.800	124.000	124.000	5656.600	128.000	128.000	5769.100	132.000	132.000
BT	.000	5800.400	136.000	136.000	5825.400	140.000	140.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	111.450	4990.000	109.900	5000.000
GR	108.580	5000.010	108.580	5001.000	107.980	5001.010	107.980	5002.000	105.790	5002.010
GR	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000	103.490	5022.000
GR	103.490	5022.010	103.930	5030.000	104.850	5040.000	105.790	5042.590	108.050	5042.600
GR	108.050	5044.000	109.040	5044.010	109.040	5044.990	109.860	5045.000	111.430	5050.000
GR	112.000	5075.300	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600
GR	132.000	5769.100	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000

NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.000	.060	5045.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000
X1	10866.000	.000	.000	.000	12.000	12.000	12.000	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000

NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.010	.060	5050.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000
X1	10867.000	32.000	5000.010	5050.000	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	109.650	109.760	.000
X4	2.000	133.690	4547.000	116.370	5282.000	.000	.000	.000	.000	.000
GR	140.000	4382.200	136.000	4482.000	132.000	4594.500	128.000	4707.000	124.000	4830.000
GR	120.000	4920.000	116.000	4945.000	112.000	4985.000	108.580	5000.010	107.980	5001.010
GR	105.790	5002.010	104.530	5002.020	103.490	5019.990	103.490	5020.000	103.490	5021.000
GR	103.490	5022.000	103.490	5022.010	103.900	5029.000	103.930	5030.000	104.800	5039.000
GR	104.850	5040.000	105.790	5042.590	108.050	5044.000	111.430	5050.000	112.000	5075.300
GR	116.000	5255.000	120.000	5545.000	124.000	5637.800	128.000	5656.600	132.000	5769.100
GR	136.000	5800.400	140.000	5825.400	.000	.000	.000	.000	.000	.000

NH	7.000	1.000	4547.000	.200	4945.000	.113	5000.010	.060	5050.000	.113
NH	5282.000	.170	5656.600	1.000	5825.400	.000	.000	.000	.000	.000

LAST X-SECTION FOR BRIDGE # 3.

X1	10907.000	.000	.000	.000	39.600	39.600	39.600	.000	.250	.000
X4	2.000	133.940	4547.000	116.620	5282.000	.000	.000	.000	.000	.000
NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	5.000	.113	5000.000	.062	5023.750	.113	5136.750	.170	5578.000	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000

1ST. BRIDGE X-SECTION FOR BRIDGE # 4.
ELLCC = 109.26 ETRD = 111.31 SKEW ANGLE = 85.

X1	11793.000	25.000	5000.000	5023.750	896.400	861.400	885.400	.000	-.030	.000
X4	1.000	119.810	5578.000	.000	.000	.000	.000	.000	.000	.000
GR	132.000	4826.000	128.000	4849.000	124.000	4880.000	120.000	4921.000	116.000	4946.000
GR	113.000	4974.000	112.720	4984.000	110.390	5000.000	110.090	5001.000	108.580	5002.000
GR	106.000	5003.000	103.860	5005.700	105.460	5010.600	105.690	5011.300	105.770	5012.000
GR	107.000	5023.000	109.260	5023.500	111.080	5023.750	111.380	5032.850	112.000	5065.750
GR	116.000	5136.750	120.000	5596.750	124.000	5766.750	128.000	5828.750	132.000	5887.800
NC	.000	.000	.000	.300	.500	.000	.000	.000	.000	.000
NH	5.000	.113	5000.000	.062	5023.750	.113	5153.000	.170	5596.750	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	11873.000	.000	.000	.000	80.200	80.200	80.200	.000	.030	.000
X3	10.000	.000	.000	.000	.000	.000	.000	110.390	111.080	.000
X4	1.000	116.140	5153.000	.000	.000	.000	.000	.000	.000	.000
NH	5.000	.113	5000.000	.062	5023.750	.113	5153.000	.170	5596.750	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000

BRIDGE # 4, PRIVATE

X1	11874.000	25.000	5000.000	5023.750	1.000	1.000	1.000	.000	.000	.000
X4	1.000	116.140	5153.000	.000	.000	.000	.000	.000	.000	.000
BT	-25.000	4826.000	132.000	132.000	4849.000	128.000	128.000	4880.000	124.000	124.000
BT	.000	4921.000	120.000	120.000	4946.000	116.000	116.000	4974.000	113.000	113.000
BT	.000	4984.000	112.720	112.720	5000.000	110.390	110.390	5001.000	110.680	110.090
BT	.000	5002.000	110.770	108.580	5002.700	110.790	108.590	5005.700	110.850	108.680
BT	.000	5010.600	110.960	108.840	5011.300	110.690	108.860	5012.000	111.060	108.880
BT	.000	5023.000	111.300	109.250	5023.500	111.310	109.260	5023.750	111.080	111.080
BT	.000	5032.850	111.380	111.380	5065.750	112.000	112.000	5136.750	116.000	116.000
BT	.000	5596.750	120.000	120.000	5766.750	124.000	124.000	5828.750	128.000	128.000
BT	.000	5887.800	132.000	132.000	.000	.000	.000	.000	.000	.000
GR	132.000	4826.000	128.000	4849.000	124.000	4880.000	120.000	4921.000	116.000	4946.000
GR	113.000	4974.000	112.720	4984.000	110.390	5000.000	110.090	5001.000	108.580	5002.000
GR	108.590	5002.700	103.860	5005.700	105.460	5010.600	105.690	5011.300	105.770	5012.000
GR	107.000	5023.000	109.260	5023.500	111.080	5023.750	111.380	5032.850	112.000	5065.750
GR	116.000	5136.750	120.000	5596.750	124.000	5766.750	128.000	5828.750	132.000	5887.800

NH	5.000	.113	5000.000	.062	5023.750	.113	5153.000	.170	5596.750	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	11886.000	.000	.000	.000	11.600	11.600	11.600	.000	.000	.000
X2	.000	.000	.000	.000	.000	.000	1.000	.000	.000	.000
X4	1.000	116.140	5153.000	.000	.000	.000	.000	.000	.000	.000

NH	5.000	.113	5000.000	.062	5023.750	.113	5153.000	.170	5596.750	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000
X1	11887.000	25.000	5000.000	5023.750	1.000	1.000	1.000	.000	.000	.000
X3	10.000	.000	.000	.000	.000	.000	.000	110.390	111.080	.000
X4	1.000	116.140	5153.000	.000	.000	.000	.000	.000	.000	.000
GR	132.000	4826.000	128.000	4849.000	124.000	4880.000	120.000	4921.000	116.000	4946.000
GR	113.000	4974.000	112.720	4984.000	110.390	5000.000	110.090	5001.000	108.580	5002.000
GR	106.000	5003.000	103.860	5005.700	105.460	5010.600	105.690	5011.300	105.770	5012.000
GR	107.000	5023.000	109.260	5023.500	111.080	5023.750	111.380	5032.850	112.000	5065.750
GR	116.000	5136.750	120.000	5596.750	124.000	5766.750	128.000	5828.750	132.000	5887.800

NH	5.000	.113	5000.000	.062	5023.750	.113	5153.000	.170	5596.750	1.000
NH	5887.800	.000	.000	.000	.000	.000	.000	.000	.000	.000

LAST X-SECTION FOR BRIDGE # 4.

X1	11906.000	.000	.000	.000	19.300	19.300	19.300	.000	.140	.000
X4	1.000	116.180	5153.000	.000	.000	.000	.000	.000	.000	.000

NC	.100	.100	.050	.100	.300	.000	.000	.000	.000	.000
NH	7.000	1.000	5035.000	.120	5376.500	.113	5700.000	.062	5783.000	.113
NH	5848.000	.170	5908.000	1.000	6046.000	.000	.000	.000	.000	.000

X-SECTION FOR MD.

X1	12870.000	29.000	5700.000	5783.000	1043.900	853.900	963.900	.000	.000	.000
X4	1.000	121.290	5376.500	.000	.000	.000	.000	.000	.000	.000
GR	150.000	5000.000	148.000	5005.000	144.000	5025.000	143.000	5035.000	140.000	5052.000
GR	136.000	5070.000	132.000	5090.000	128.000	5112.000	124.000	5232.000	121.000	5392.000
GR	121.000	5477.000	121.000	5645.000	120.000	5700.000	118.000	5718.000	116.000	5726.000
GR	112.000	5734.000	109.000	5752.000	109.000	5770.000	112.000	5775.000	114.000	5778.000
GR	116.000	5783.000	120.000	5848.000	121.000	5873.000	124.000	5908.000	126.000	5920.000
GR	140.000	5945.000	144.000	5995.000	150.000	6013.000	169.000	6046.000	.000	.000

NH	6.000	1.000	5045.000	.113	5081.000	.062	5159.000	.113	5527.000	.150
NH	5746.000	1.000	5779.000	.000	.000	.000	.000	.000	.000	.000

X-SECTION FOR ME.

X1	14980.000	33.000	5081.000	5159.000	1900.000	2130.000	2110.000	.000	.000	.000
X4	1.000	127.000	5527.000	.000	.000	.000	.000	.000	.000	.000
GR	155.000	5000.000	148.000	5015.000	140.000	5025.000	124.000	5045.000	122.000	5050.000
GR	121.000	5081.000	118.000	5083.000	115.000	5086.000	113.500	5090.000	113.800	5100.000
GR	114.000	5110.000	115.000	5118.000	117.000	5122.000	117.000	5131.000	122.400	5152.000
GR	124.000	5159.000	119.000	5199.000	119.000	5244.000	120.000	5264.000	124.000	5284.000
GR	125.000	5294.000	127.000	5424.000	127.000	5609.000	128.000	5644.000	132.000	5679.000
GR	134.000	5704.000	136.000	5714.000	140.000	5719.000	152.000	5734.000	152.000	5746.000

THIS RUN EXECUTED 02-14-86 16:16:38

 HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
 ERROR CORR - 01,02,03,04,05,06
 MODIFICATION - 50,51,52,53,54,55,56
 IBM-PC-XT VERSION AUGUST 1985

T1 HAYES, SEAY, MATTERN & MATTERN CALDWELL CO/LENOIR, NC FIS
 T2 FILENAME: MC.HEC ENG: SKE EA: KMC & EKL & DLY COMM 2320
 T3 MULBERRY CREEK, CALDWELL CO., NC DATE: 2/14/86 100 ET EVENT

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR
	0.	7.	0.	0.	.000000	.00	.0	0.	95.300	.000
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	.000	-1.000	.000	.000	.000	.000	.000	.000	.000

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

THIS RUN EXECUTED 02-14-86 16:17:29

HEC2 RELEASE DATED NOV 76 UPDATED MAY 1984
ERROR CORR - 01,02,03,04,05,06
MODIFICATION - 50,51,52,53,54,55,56
IBK-PC-XT VERSION AUGUST 1985

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

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT

SECNO	CWSEL	VCH
140.000	95.30	6.59
140.000	95.30	7.70
141.000	95.47	5.17
141.000	95.53	6.10
159.000	95.59	5.09
159.000	95.70	5.95
160.000	95.54	6.39
160.000	95.63	7.35
197.000	95.60	6.73
197.000	95.72	7.74
2210.000	99.49	5.25
2210.000	100.30	5.66
3782.200	103.15	6.17
3782.200	104.08	6.58
4365.200	104.70	5.81
4365.200	105.69	6.15
4366.200	104.22	9.43
4366.200	105.39	8.48
4393.800	104.55	9.14
4393.800	105.60	8.33
4394.800	104.99	8.05
4394.800	105.76	7.87

SECNO	CWSEL	VCH
4539.800	105.84	7.44
4539.800	106.51	7.46
6320.000	109.63	4.88
6320.000	110.42	5.19
8430.000	113.65	6.34
8430.000	114.68	6.52
10692.000	120.45	8.47
10692.000	121.54	8.73
10853.00	121.04	8.05
10853.00	122.14	8.20
10854.000	121.43	5.31
10854.000	122.52	5.39
10866.000	121.50	5.25
10866.000	122.59	5.35
10867.000	121.39	7.40
10867.000	122.48	7.52
10907.000	121.47	7.57
10907.000	122.55	7.81
11793.000	123.91	6.57
11793.000	125.00	6.75
11873.000	124.11	6.31
11873.000	125.20	6.49
11874.000	124.19	4.57
11874.000	125.22	5.60
11886.000	124.24	4.55
11886.000	125.29	5.56
11887.000	124.22	6.22
11887.000	125.29	6.40
11906.000	124.25	6.28
11906.000	125.32	6.47
12870.000	126.22	6.22
12870.000	127.24	6.52
14980.000	130.66	5.75
14980.000	131.82	5.70

02-14-86

16:15:20

PAGE 14

SECHO	CMSFL	VCH
15280.000	131.20	6.74
15280.000	132.32	6.93

MULBERRY CREEK, CALDWELL

SUMMARY PRINTOUT TABLE 110

	SECD0	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR		
#1	140.000	95.30	2.30	95.57	823.01	7316.45	4376.59	1152.96	.00	.00	5000.00	5042.00	.00		
	140.000	95.30	.00	95.75	374.45	7557.81	5107.27	180.92	.15	4674.64	5000.00	5042.00	5049.09		
	141.000	95.47	.00	95.61	826.65	8066.85	2820.95	1958.20	.00	.00	5000.00	5042.00	.00		
	141.000	95.53	.06	95.30	419.72	8487.06	3340.09	1018.85	.17	4640.84	5000.00	5042.00	5060.56	390	
	159.000	95.59	.00	95.72	829.15	8097.87	2799.84	1948.28	.00	.00	5000.00	5042.00	.00		
	159.000	95.70	.11	95.96	421.48	8527.61	3300.34	1018.05	.17	4639.25	5000.00	5042.00	5060.73		
	160.000	95.54	.00	95.78	828.01	7375.68	4303.32	1167.00	.00	.00	5000.00	5042.00	.00		
	160.000	95.63	.10	96.03	380.20	7643.88	4978.58	226.75	.15	4670.32	5000.00	5042.00	5050.52		
	197.000	95.60	.00	95.88	825.41	7198.93	4502.14	1144.92	.00	.00	5000.00	5042.00	.00		
	197.000	95.72	.12	96.17	380.60	7449.67	5211.32	185.01	.15	4669.01	5000.00	5042.00	5049.62		
	MA	2210.000	99.49	.00	99.69	1215.01	6775.28	5157.51	913.20	.00	.00	6561.00	6646.00	.00	
		2210.000	100.30	.81	100.58	498.28	6892.35	5953.65	.00	.21	6147.72	6561.00	6646.00	6646.00	
#2	3782.200	103.15	.00	103.61	519.64	1686.85	9651.83	1427.32	.00	.00	5000.00	5140.00	.00		
	3782.200	104.08	.94	104.68	239.47	1025.65	11158.41	581.94	.17	4939.97	5000.00	5140.00	5169.44	265 4920-5185	
	4365.200	104.70	.00	105.10	554.61	1797.74	9469.35	1498.91	.00	.00	5000.00	5140.00	.00		
	4365.200	105.69	.99	106.20	243.82	1201.65	10870.27	694.08	.16	4931.10	5000.00	5140.00	5174.92		
	4366.200	104.22	.00	105.60	305.41	.00	12766.00	.00	.00	.00	5000.00	5153.71	.00	ch	
	4366.200	105.39	1.18	106.51	153.71	.00	12766.00	.00	.05	5000.00	5000.00	5153.71	5153.71	ch	
	4393.800	104.55	.00	105.84	313.56	.00	12766.00	.00	.00	.00	5000.00	5153.71	.00	ch	
	4393.800	105.60	1.06	106.68	153.71	.00	12766.00	.00	.06	5000.00	5000.00	5153.71	5153.71	ch	
	4394.800	104.99	.00	105.95	324.62	288.97	12187.61	289.42	.00	.00	5000.00	5143.00	.00	ch	
	4394.800	105.76	.77	106.72	143.30	.00	12766.00	.00	.06	5000.00	5000.00	5143.00	5143.00	ch	
	4539.800	105.84	.00	106.65	362.55	386.66	12014.14	365.19	.00	.00	5000.00	5143.00	.00	ch	
	4539.800	106.51	.66	107.37	143.00	.00	12766.00	.00	.08	5000.00	5000.00	5143.00	5143.00	ch	
MB	6320.000	109.63	.00	109.88	771.40	3509.03	8251.60	1005.37	.00	.00	5528.00	5637.00	.00		
	6320.000	110.42	.80	110.74	367.94	3333.02	9236.38	196.60	.15	5282.41	5528.00	5637.00	5650.35		
MC	8430.000	113.65	.00	113.97	787.03	243.78	5671.46	6541.76	.00	.00	5130.00	5210.00	.00		
	8430.000	114.68	1.03	115.07	408.20	.00	6366.29	6090.71	.20	5130.00	5130.00	5210.00	5538.20		
#3	10692.000	120.45	.00	121.04	654.93	1356.53	6070.50	5029.96	.00	.00	5000.01	5044.00	.00		
	10692.000	121.54	1.09	122.24	282.54	416.39	6677.63	5362.98	.17	4986.36	5000.01	5044.00	5268.90		
	10853.000	121.04	.00	121.55	705.83	1388.21	5905.35	5163.44	.00	.00	5000.01	5044.00	.00		
	10853.000	122.14	1.11	122.74	295.79	628.56	6413.96	5414.49	.17	4983.68	5000.01	5044.00	5279.47		

#3

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
10854.000	121.43	.00	121.64	690.53	1928.49	3470.48	7058.02	.00	.00	5000.00	5045.00	.00
10854.000	122.52	1.09	122.83	294.57	583.74	3788.21	8085.05	.24	4988.95	5000.00	5045.00	5283.52
10866.000	121.50	.00	121.71	693.67	1931.04	3449.25	7076.71	.00	.00	5000.00	5045.00	.00
10866.000	122.59	1.08	122.89	295.91	583.13	3772.85	8101.02	.24	4988.91	5000.00	5045.00	5284.82
10867.000	121.39	.00	121.83	688.37	1332.11	6056.51	5068.38	.00	.00	5000.01	5050.00	.00
10867.000	122.48	1.10	123.00	305.90	604.24	6573.70	5279.06	.16	4984.90	5000.01	5050.00	5290.80
10907.000	121.47	.00	121.95	680.89	1324.61	6138.40	4993.99	.00	.00	5000.01	5050.00	.00
10907.000	122.55	1.08	123.12	297.22	419.11	6757.01	5280.88	.16	4985.58	5000.01	5050.00	5282.80

4980
5300
300

510

11793.000	123.91	.00	124.11	883.78	2140.41	2763.47	7555.12	.00	.00	5000.00	5023.75	.00
11793.000	125.00	1.09	125.24	468.64	1353.94	3016.85	8086.21	.16	4964.95	5000.00	5023.75	5433.58

4958

#4

11873.000	124.11	.00	124.29	889.32	2112.96	2682.15	7661.89	.00	.00	5000.00	5023.75	.00
11873.000	125.20	1.09	125.42	482.00	1324.48	2925.41	8207.11	.16	4964.83	5000.00	5023.75	5446.83
11874.000	124.19	.00	124.31	891.25	2928.03	1715.29	7813.67	.00	.00	5000.00	5023.75	.00
11874.000	125.22	1.03	125.42	376.63	812.15	2235.45	9409.39	.31	4984.09	5000.00	5023.75	5360.72

4980 5372.

11886.000	124.24	.00	124.36	892.19	2929.66	1710.01	7817.33	.00	.00	5000.00	5023.75	.00
11886.000	125.29	1.05	125.49	377.14	806.15	2228.33	9422.52	.31	4984.14	5000.00	5023.75	5361.28

510

11887.000	124.22	.00	124.39	891.76	2116.59	2657.97	7682.44	.00	.00	5000.00	5023.75	.00
11887.000	125.29	1.07	125.49	485.51	1341.58	2898.45	8216.96	.16	4963.94	5000.00	5023.75	5449.45

11906.000	124.25	.00	124.43	889.60	2106.18	2670.14	7680.68	.00	.00	5000.00	5023.75	.00
11906.000	125.32	1.07	125.54	483.20	1330.42	2912.81	8213.77	.16	4964.38	5000.00	5023.75	5447.58

445

MD

12870.000	126.22	.00	126.57	754.97	4096.84	6646.81	1713.35	.00	.00	5700.00	5783.00	.00
12370.000	127.24	1.01	127.67	420.37	4256.74	7519.97	680.30	.19	5389.10	5700.00	5783.00	5809.48

5375 - 5820

ME

14980.000	130.66	.00	130.95	630.63	799.07	6102.29	5555.64	.00	.00	5081.00	5159.00	.00
14980.000	131.82	1.16	132.14	345.68	.00	6568.07	5888.93	.16	5081.00	5081.00	5159.00	5426.68

5080 5480
375

KSect.

15280.000	131.20	.00	131.53	971.11	3103.93	5212.93	4140.14	.00	.00	4984.00	5032.00	.00
15280.000	132.32	1.12	132.72	347.26	2705.67	5738.38	4012.95	.17	4873.21	4984.00	5032.00	5220.47

4980 - 5235

FLOODWAY DATA, MULBERRY CREEK, CALDWELL
 PROFILE NO. 2

STATION	FLOODWAY			WATER SURFACE ELEVATION		
	WIDTH	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
140.000	374.	3315.	3.9	95.3	95.3	.0
141.000	420.	3594.	3.6	95.6	95.5	.1
159.000	421.	3676.	3.5	95.7	95.6	.1
160.000	380.	3482.	3.7	95.6	95.5	.1
197.000	381.	3440.	3.7	95.7	95.6	.1
2210.000	498.	4043.	3.2	100.3	99.5	.8
3782.200	229.	2340.	5.5	104.0	103.1	.9
4365.200	244.	2566.	5.0	105.7	104.7	1.0
4366.200	154.	1506.	8.5	105.4	104.2	1.2
4393.800	154.	1533.	8.3	105.6	104.5	1.1
4394.800	143.	1623.	7.9	105.8	105.0	.8
4539.800	143.	1710.	7.5	106.5	105.8	.7
6320.000	368.	3786.	3.4	110.4	109.6	.8
8430.000	408.	3301.	3.8	114.7	113.7	1.0
10692.000	283.	2720.	4.6	121.6	120.5	1.1
10853.000	296.	2924.	4.3	122.1	121.0	1.1
10854.000	295.	2877.	4.3	122.5	121.4	1.1
10866.000	296.	2902.	4.3	122.6	121.5	1.1
10867.000	306.	3078.	4.0	122.5	121.4	1.1
10907.000	291.	2971.	4.2	122.6	121.5	1.1
11793.000	469.	4533.	2.7	125.0	123.9	1.1
11873.000	482.	4702.	2.6	125.2	124.1	1.1
11874.000	377.	3830.	3.3	125.2	124.2	1.0
11886.000	377.	3862.	3.2	125.2	124.2	1.0
11887.000	486.	4773.	2.6	125.3	124.2	1.1
11906.000	483.	4721.	2.6	125.4	124.3	1.1
12870.000	420.	3395.	3.7	127.2	126.2	1.0
14980.000	346.	3428.	3.6	131.9	130.7	1.2
15280.000	347.	3493.	3.6	132.3	131.2	1.1