

56'

39

38

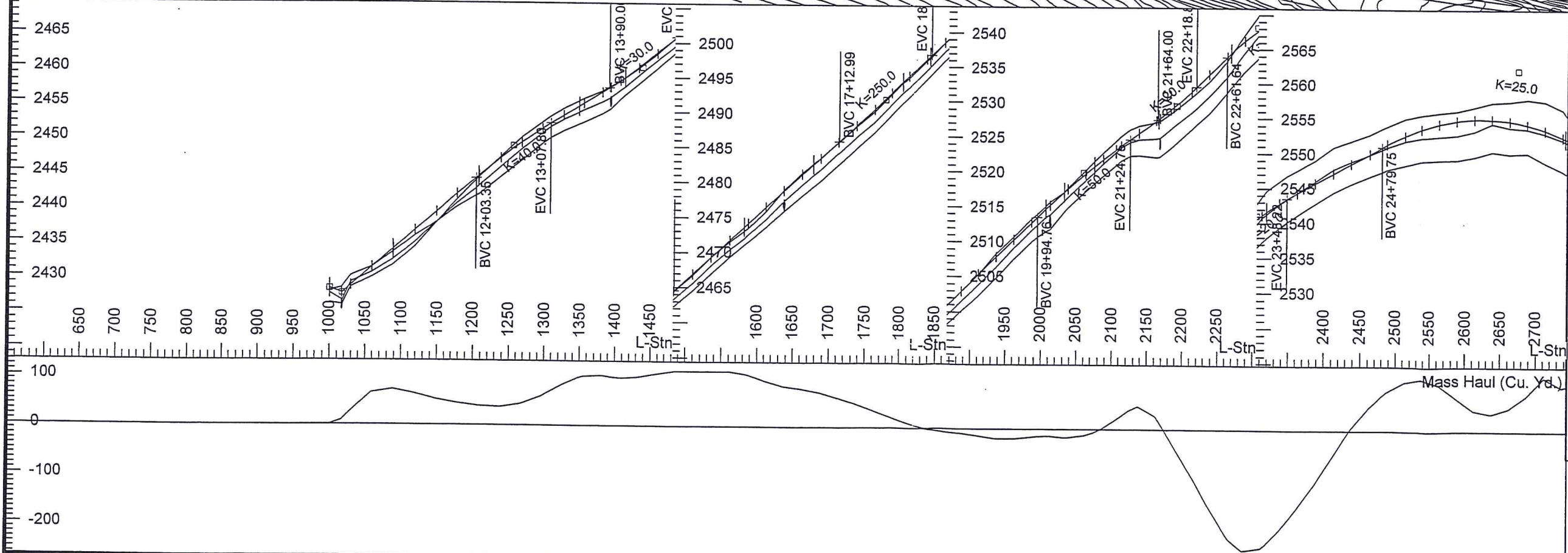
42'

44'

SWAUK ROAD B

Horizontal Curves							
	C1	C2	C3	C4	C5	C6	C7
Angle (I)	105:00:08	36:57:06	25:11:36	8:41:37	14:51:18	17:18:26	4:52:48
Tangent (T)	84.71	33.41	49.16	19.00	13.04	45.66	25.57
Arc. Len.(L)	119.12	64.49	96.74	37.93	25.93	90.62	51.10
Radius (R)	65.00	100.00	220.00	250.00	100.00	300.00	600.00

Vertical Curves						
	C1	C2	C3	C4	C5	C6
K	40.00	30.00	250.00	50.00	20.00	20.00
Len.(L)	104.45	94.14	130.55	129.99	54.89	86.58



Date: 6/5/06

Updates:

6/7/06

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Sheet _____
 of _____

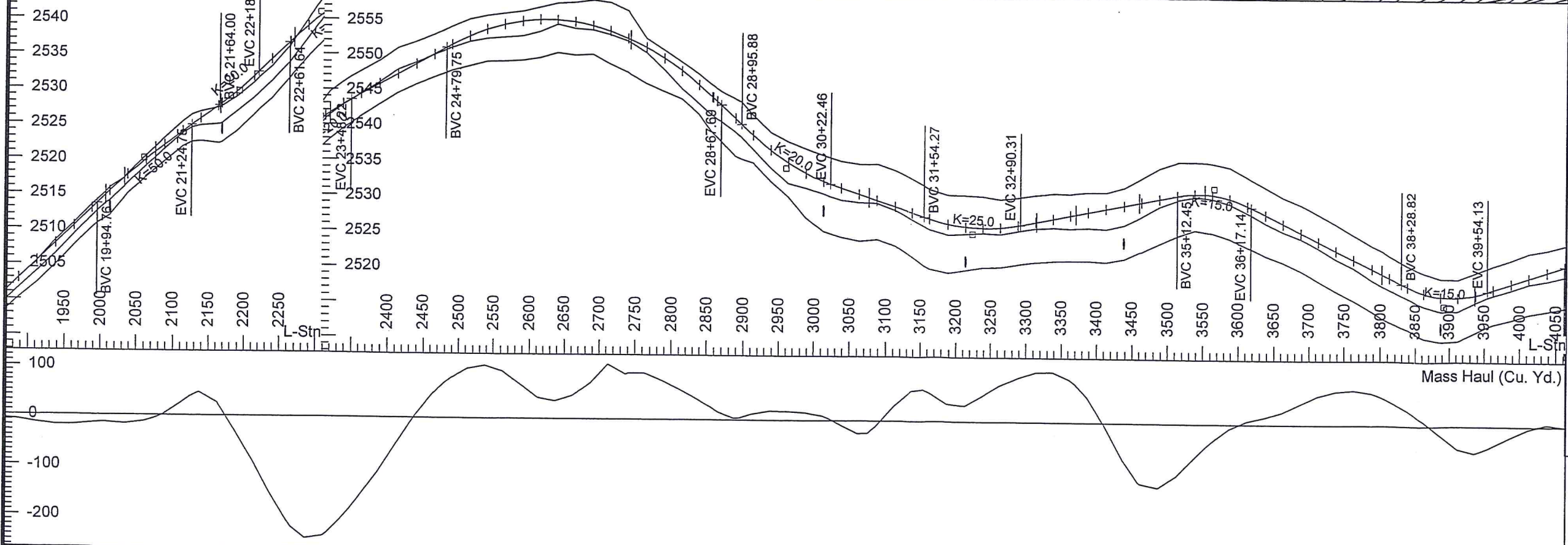
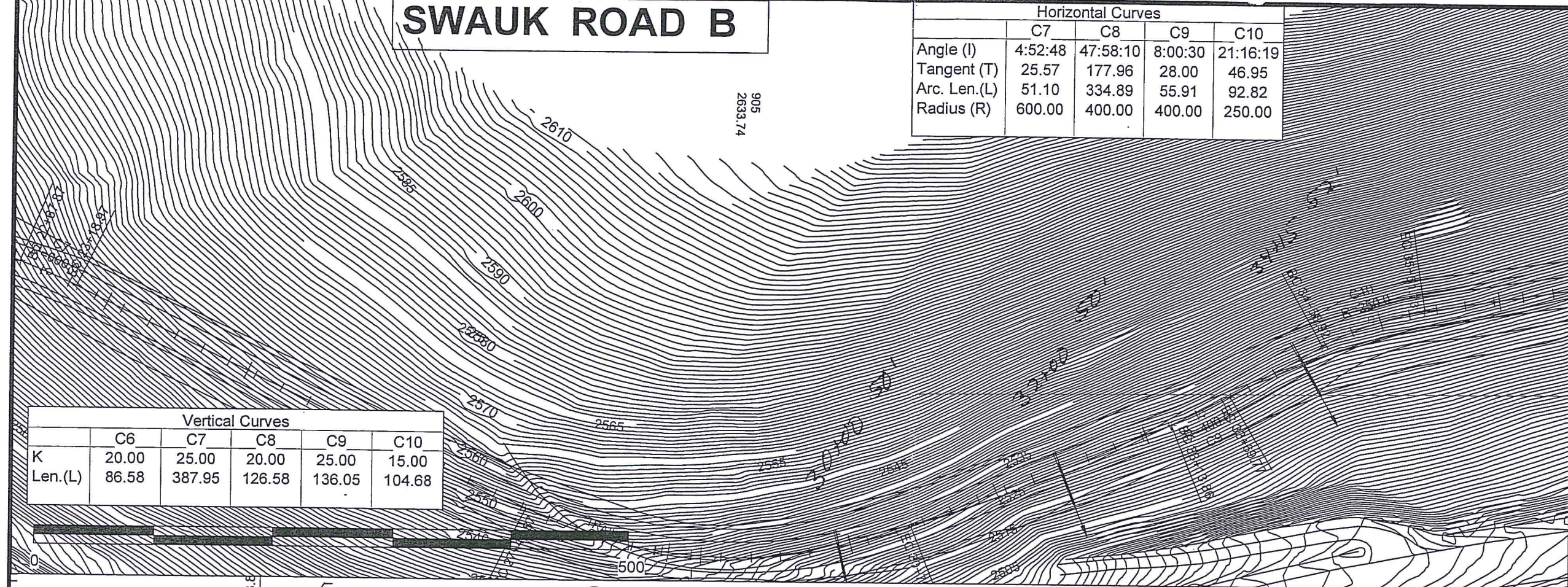
Total, All pipes "B" = 607 feet

Better Rd Pipe = 18" ~~160~~ ft

SWAUK ROAD B

Horizontal Curves				
	C7	C8	C9	C10
Angle (I)	4:52:48	47:58:10	8:00:30	21:16:19
Tangent (T)	25.57	177.96	28.00	46.95
Arc. Len.(L)	51.10	334.89	55.91	92.82
Radius (R)	600.00	400.00	400.00	250.00

Vertical Curves					
	C6	C7	C8	C9	C10
K	20.00	25.00	20.00	25.00	15.00
Len.(L)	86.58	387.95	126.58	136.05	104.68



Date: 6/5/06
Updates:
6/7/06

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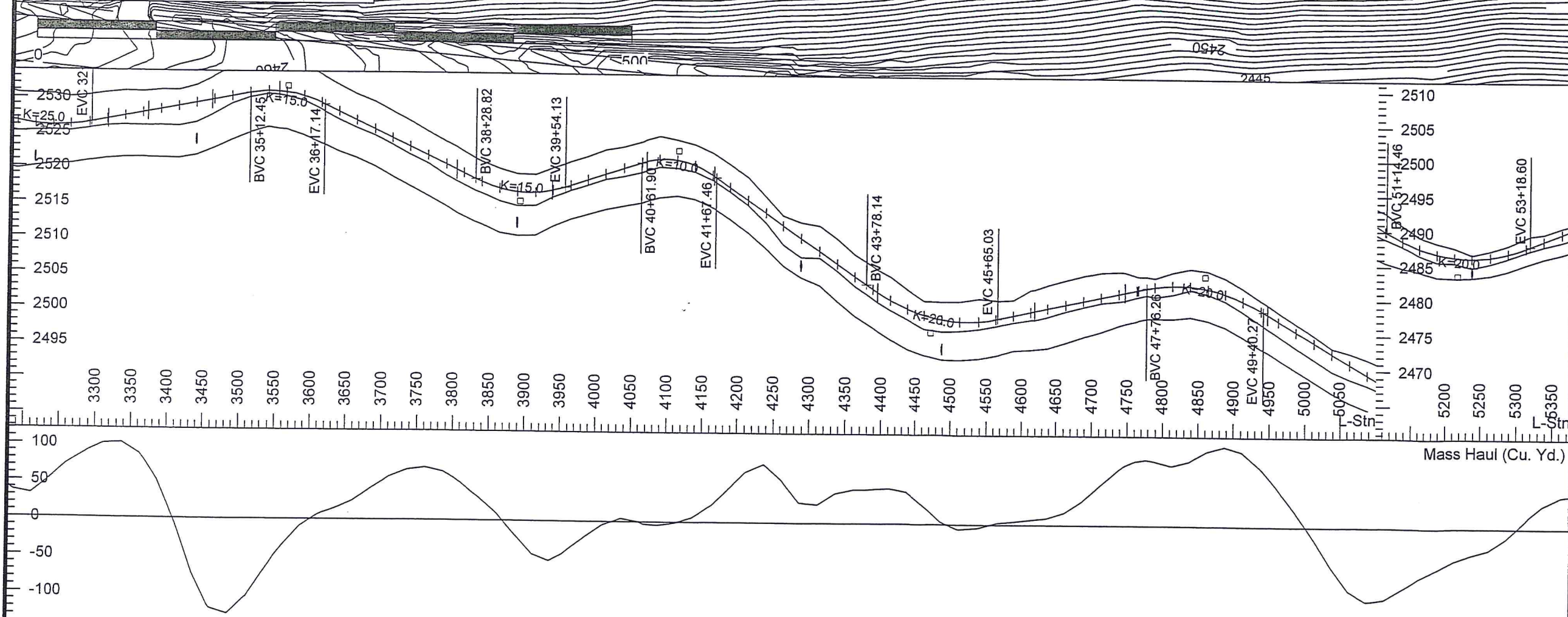
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Sheet _____
 of _____

SWAUK ROAD B

Horizontal Curves				
	C11	C12	C13	C14
Angle (I)	12:48:36	18:06:41	21:24:52	19:09:35
Tangent (T)	67.35	47.81	113.45	101.27
Arc. Len.(L)	134.15	94.83	224.25	200.64
Radius (R)	600.00	300.00	600.00	600.00

Vertical Curves				
	C11	C12	C13	C14
K	15.00	10.00	20.00	20.00
Len.(L)	125.30	105.57	186.89	164.01



Date: 6/5/06	Updates:	6/7/06			
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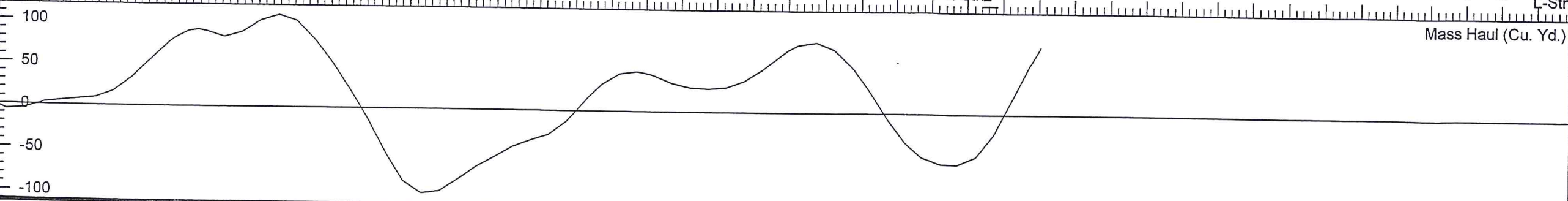
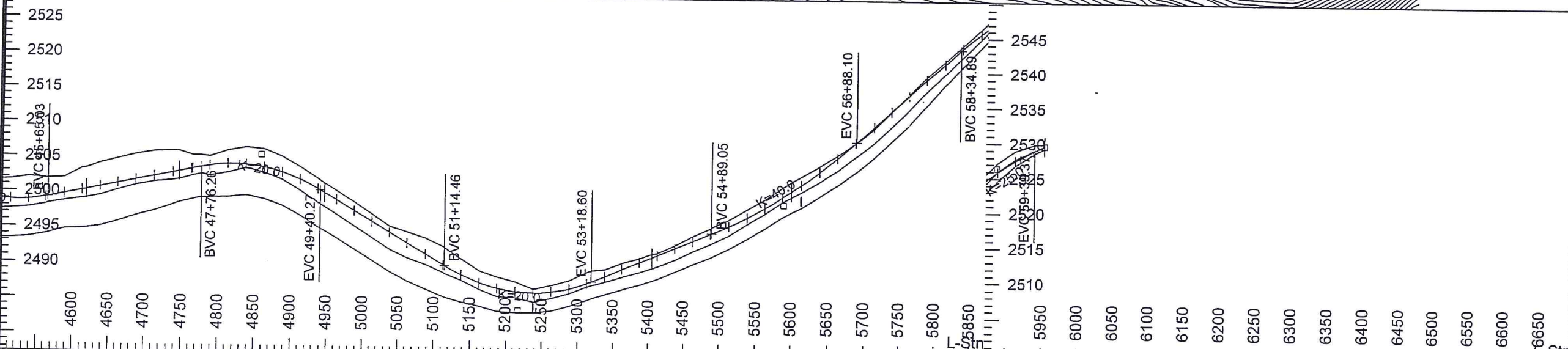
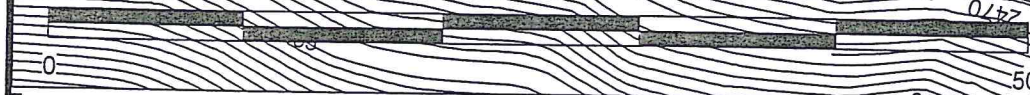
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Sheet _____
 of _____

SWAUK ROAD B

Horizontal Curves		
	C14	C15
Angle (I)	19:09:35	18:38:03
Tangent (T)	101.27	98.44
Arc. Len.(L)	200.64	195.14
Radius (R)	600.00	600.00

Vertical Curves			
	C15	C16	C17
K	20.00	40.00	25.00
Len.(L)	204.14	199.05	104.48



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Sheet _____
 of _____