Lampiran 10 Perhitungan Analisis Vertikal

	Elevasi Rencana	Stasiun	Kelandaian (g)	Detail AV		Lv	Ev	∆elevasi	x
				PPV	∆				
	m	m	%		%	m	m	m	m
	99.52	360	-1.06	0.00	0.23	21.62	0.01	0.00	0.00
A1	99.52	360	-1.29	120.01	3.11	291.54	1.13	1.55	119.99
VPI1	97.97	480	-4.41	60.06	72.41	6781.38	613.78	2.64	59.94
B1	95.33	540	-4.41	60.06	0.00	0.00	0.00	2.64	59.94
A2	97.97	480	-4.41	60.06	6.80	637.24	5.42	2.64	59.94
VPI2	95.33	540	2.40	160.05	1.54	144.53	0.28	3.83	159.95
B2	99.16	700	0.85	0.00	0.00	0.00	0.00	0.00	0.00
	99.16	700	0.85	706.99	0.85	79.93	0.09	99.16	692.94

Sta A		360.00000	m
Vr		50.00000	km/jam
Elevasi A		99.52350	m
Ā		119.98994	m
Б		59.94169	m
g1		-1.29458	%
		-0.01295	
g2		-4.40750	%
		-0.04407	
x0		0.00000	m

A	g2-g1	3.11292	%	
		0.03113		
Ltot		120	m	
D	JPH	62,842	m	dibagi 405
Lv	(AD^2)/405	30,887	m	

VPC			
Elevasi	elevasi A+g1(ā-0.5Lv)-A(Xo^2)/(2*Lv)	98.17006	m
Sta	Sta A+(ā-0.5*Lv)	464,54617	m

VPI			
Elevasi	elevasi A + (ā*g1)	97.97013	m
Sta	Sta A + ā	479.98994	m

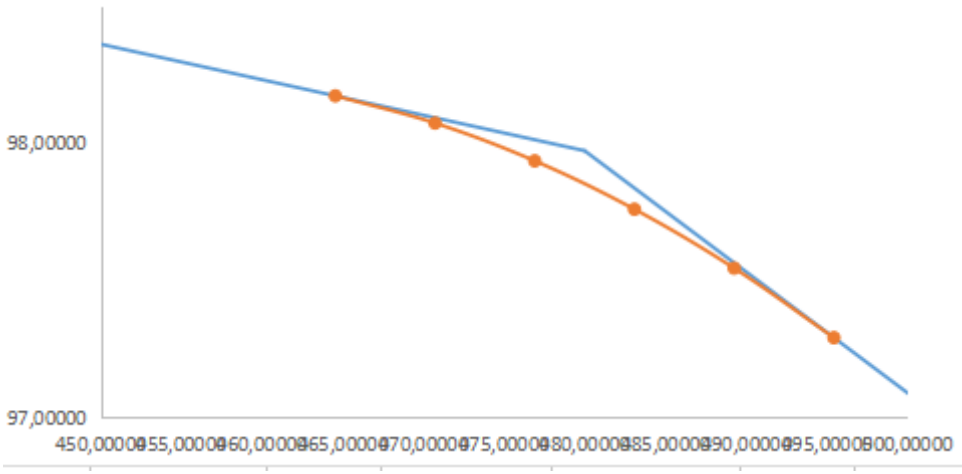
VPT			
Elevasi	elevasi VPI + 0.5*Lv*g2	97,28945	m
Sta	Sta VPI + 0.5*Lv	495,43372	m

Titik B			
Elevasi	elevasi VPI + g2*б	95.32820	m
Sta	Sta VPI + б	539.93164	m

Titik Pias	Satuan	X	Elevasi	Sta
x1	meter	6,17751	98,07086	470,72368
x2		12,35502	97,93320	476,90119
x3		18,53253	97,75707	483,07870
x4		24,71004	97,54249	489,25621
x5		30,88755	97,28945	495,43372

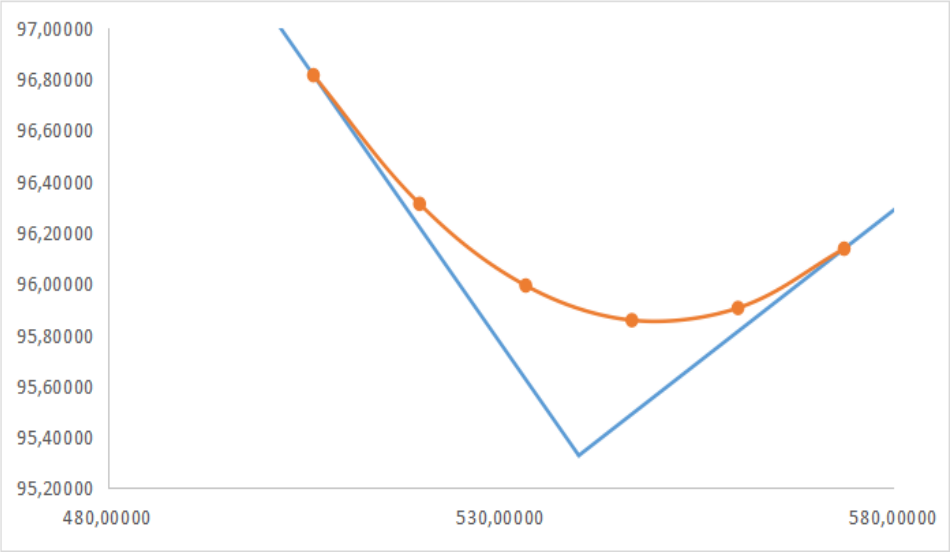
Elevasi Tertinggi (M)			
xm	g1*Lv/A	12,84535	m
Elevasi	elevasi VPC + g1*xm - (A*xm^2)/(2*Lv)	98,08692	m
Sta		477,39152	m

	Rekapitulasi		
	Titik	Sta	Elevasi
POKOK	A	360,00000	99,52350
	VPC	464,54617	98,17006
	VPI	479,98994	97,97013
	VPT	495,43372	97,28945
	B	540,00000	95,32550
PIAS	VPC	464,54617	98,17006
	x1	470,72368	98,07086
	x2	476,90119	97,93320
	x3	483,07870	97,75707
	x4	489,25621	97,54249
	x5	495,43372	97,28945



Sta A		480,00000	m	
Vr		50,00000	km/jam	
Elevasi A		97,97000	m	
ā		59,94169	m	
ƀ		159,95405	m	
g1		-4,40750	%	
		-0,04407		
g2		2,39656	%	
		0,02397		
x0		0,00000	m	
A	g2-g1	6,80406	%	
		0,06804		
Ltot		120	m	
D	JPH	62,84194	m	dibagi 398
Lv	(AD^2)/398	67,51252	m	
VPC				
Elevasi	elevasi A+g1(ā-0.5Lv)-A(Xo^2)/(2*Lv)	96,81588	m	
Sta	Sta A+(ā-0.5*Lv)	506,18543	m	
VPI				
Elevasi	elevasi A + (ā*g1)	95,32807	m	
Sta	Sta A + ā	539,94169	m	
VPT				
Elevasi	elevasi VPI + 0.5*Lv*g2	96,13706	m	
Sta	Sta VPI + 0.5*Lv	573,69795	m	
Titik B				
Elevasi	elevasi VPI + g2*ƀ	99,16147	m	
Sta	Sta VPI + ƀ	699,89574	m	

Titik Pias	Satuan	x	Elevasi	Sta
x1	meter	13,50250	96,31263	519,68794
x2		27,00501	95,99312	533,19044
x3		40,50751	95,85736	546,69295
x4		54,01002	95,90534	560,19545
x5		67,51252	96,13706	573,69795

Elevasi Tertinggi (M)				
xm	g1*Lv/A	43,73291	m	
Elevasi	elevasi VPC + g1*xm - (A*xm^2)/(2*Lv)	95,85211	m	
Sta		549,91834	m	

	Rekapitulasi		
	Titik	Sta	Elevasi
POKOK	A	480,00000	97,97000
	VPC	506,18543	96,81588
	VPI	539,94169	95,32807
	VPT	573,69795	96,13706
	B	700,00000	99,16000
PIAS	VPC	506,18543	96,81588
	x1	519,68794	96,31263
	x2	533,19044	95,99312
	x3	546,69295	95,85736
	x4	560,19545	95,90534
	x5	573,69795	96,13706