

Key

Find the station and elevation of the point of intersection, sketch the unequal tangent vertical curve, and compute elevations and percent grade at full stations and the low point:

PVC station = 44+00
 PVC elevation = 1227.00 feet
 G1 = -4.500%
 G2 = +1.500%
 PVT station = 54+00
 PVT elevation = 1206.00 feet

G1%	= -4.500%	G1%	= -2.100%
G2%	= -2.100%	G2%	= +1.500%
A	= 0.2000	A	= 0.4500
B	= -4.5000	B	= -2.1000
C	= 1227.0000	C	= 1207.2000
r	= 0.4000	r	= 0.9000

STA	X	CRV ELEV	% SLOPE
44+00	0	1227.00	-4.500
45+00	1	1222.70	-4.100
46+00	2	1218.80	-3.700
47+00	3	1215.30	-3.300
48+00	4	1212.20	-2.900
49+00	5	1209.50	-2.500
50+00	6	1207.20	-2.100
51+00	1	1205.55	-1.200
52+00	2	1204.80	-0.300
53+00	3	1204.95	+0.600
54+00	4	1206.00	+1.500
52+33.33	2.3333	1204.75	0.000