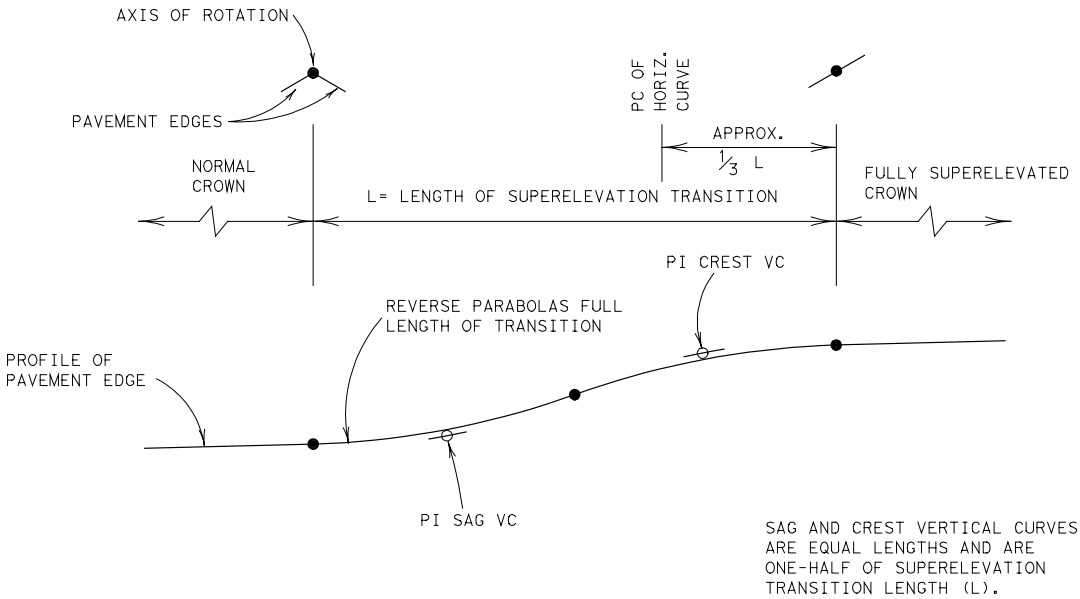
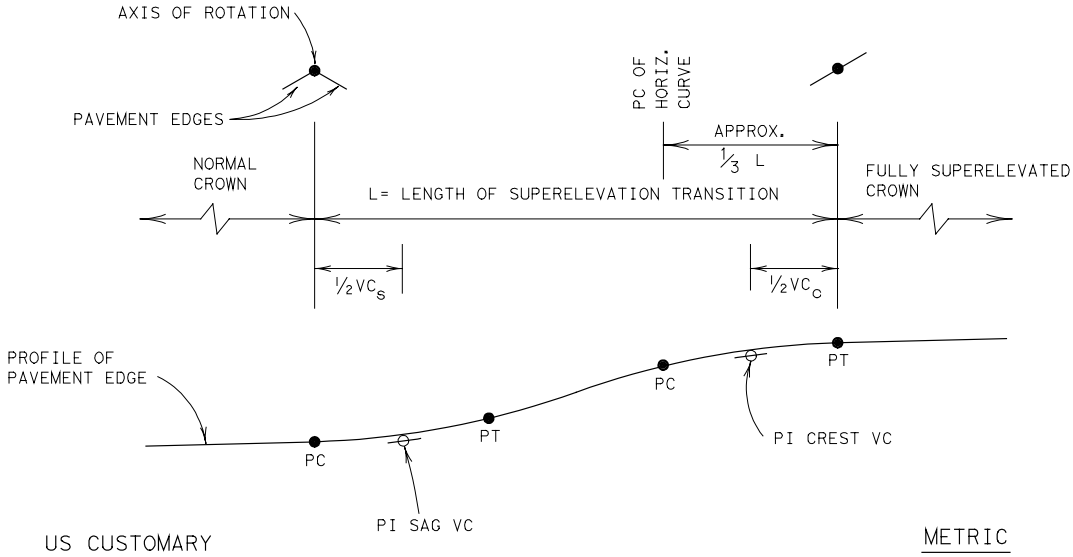


SAG AND CREST VERTICAL CURVES ARE EQUAL LENGTHS AND ARE ONE-HALF OF SUPERELEVATION TRANSITION LENGTH (L).

RECOMMENDED METHOD

REVERSE PARABOLAS
FULL LENGTH OF TRANSITION



US CUSTOMARY

DESIGN SPEED (mph)	MIN. VC LENGTH (ft) SAG	CREST
45	45	55
50	45	55
55	45	70
60	55	85
65	60	100
70	60	115
75	75	130
80	75	145

METRIC

DESIGN SPEED (km/h)	MIN. VC LENGTH (m) SAG	CREST
70	15	20
80	15	20
90	15	25
100	20	30
110	20	35
120	25	40
130	25	45

ALTERNATE METHOD

REVERSE PARABOLAS
PARTIAL LENGTH OF TRANSITION

METHODS FOR ATTAINING SUPERELEVATION