

**GENERAL NOTES:**

Details hereon cover construction details for superelevating a horizontal curve on ramp type roadways with the axis of rotation at baseline.

Materials and methods of construction shall be in accordance with current Standard and Supplemental Specifications.

Refer to specific curve data contained in detail project plans for tangent runoff length (x), runoff length (L) and full superelevation (e).

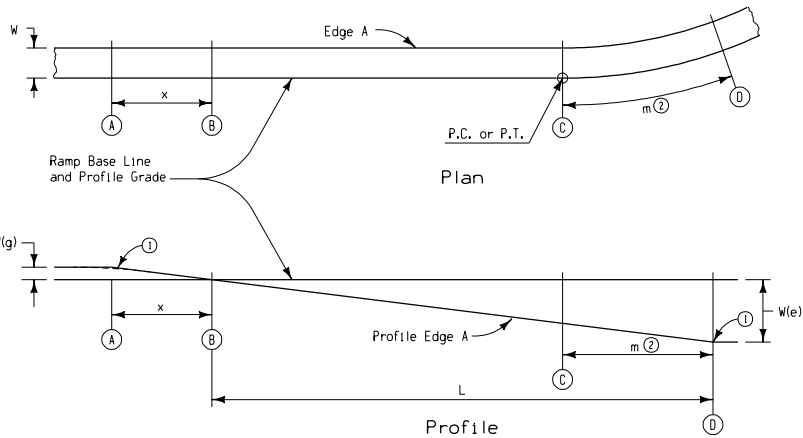
In both cases, place 30% of the runoff length within the curve and the remaining 70% on the tangent. 70% of full superelevation shall be placed at the P.C. and P.T.

For details of shoulder treatment in areas of superelevated curves, refer to appropriate Typical Cross Sections.

Unless otherwise specified, all lengths (x, L, and m) are measured along ramp base line.

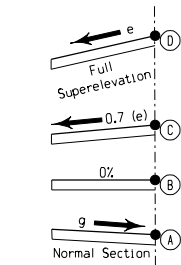
① Smooth curve established at time of construction.

②  $m = 30\%$  of L.



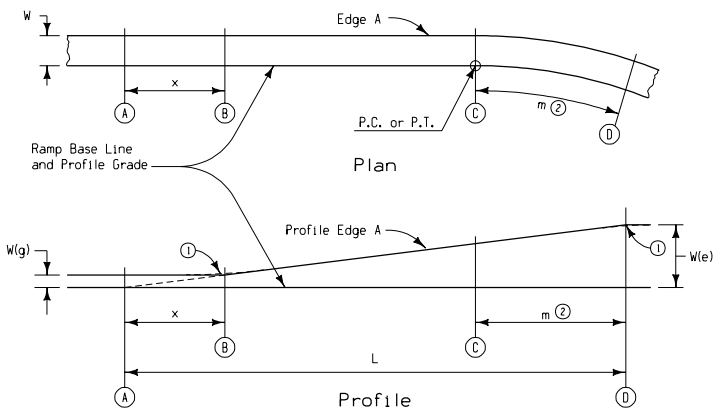
**CASE A**

Normal Pavement Sloped in the Opposite Direction of Superelevation



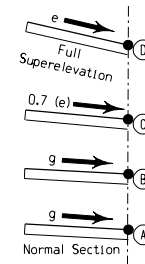
g = Normal Cross Slope  
e = Full Superelevation

**AXIS OF ROTATION  
AT BASE LINE**



**CASE B**

Normal Pavement Sloped in the Same Direction as Superelevation



g = Normal Cross Slope  
e = Full Superelevation

**AXIS OF ROTATION  
AT BASE LINE**

All dimensions given in millimeters unless noted.

<b>M</b> <b>METRIC VERSION</b>	Iowa Department of Transportation Project Development Division	
	<b>STANDARD ROAD PLAN</b>	<b>RP-3</b>
	REVISION: Remove 8% max. superelevation and edge slope ratios; clarify x, L & e designations.	
	<i>David P. Smith</i> APPROVED BY DESIGN METHODS ENGINEER	12-22-97 REVISION DATE 04-28-98
SUPERELEVATION DETAILS RAMP TYPE ROADWAYS		