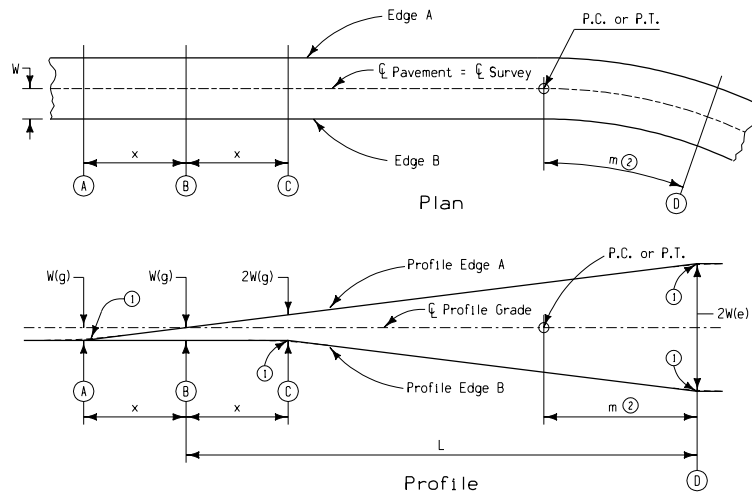
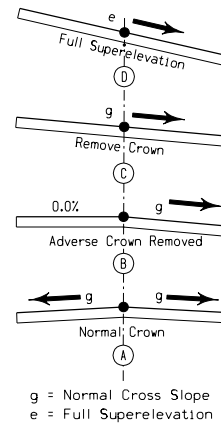


TRANSITION DETAILS WHEN SPIRAL IS USED



TRANSITION DETAILS WHEN SPIRAL IS NOT USED



AXIS OF ROTATION AT CENTER LINE

GENERAL NOTES:

Details hereon cover construction details for superelevating a horizontal curve on a two lane roadway where the axis of rotation is about the centerline of the roadway.

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 super-elevation (e).

When spiral transitions are not required, normal practice shall be to place 30% of the runoff length within the curve. The remaining runoff length shall be placed on the tangent. 70% of full super-elevation shall be placed at the P.C. and P.T.

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

Unless otherwise specified, all lengths (x, L and m) are measured along the centerline of the roadway.

- ① Smooth curve established at time of construction.
- ② $m = 30\%$ of L.
- ③ Spiral length coincides with runoff length (L).

 Iowa Department of Transportation Project Development Division	
STANDARD ROAD PLAN	RP-1
REVISION: Remove 8% max. super-elevation and edge slope ratio; clarify x, L & e designations. <i>David P. Keith</i> 12-22-97 APPROVED BY DESIGN METHODS ENGINEER	REVISION NO. 4 REVISION DATE 04-28-98
SUPERELEVATION DETAILS TWO LANE ROADWAYS	