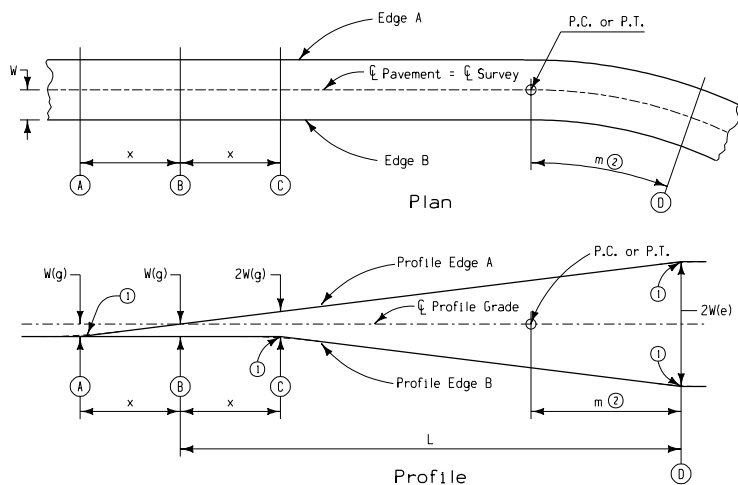
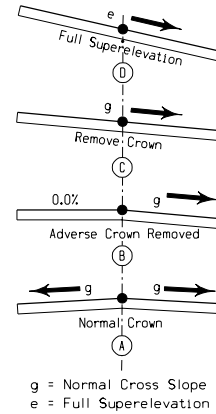


TRANSITION DETAILS WHEN SPIRAL IS USED



TRANSITION DETAILS WHEN SPIRAL IS NOT USED



g = Normal Cross Slope
e = Full Superelevation

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 superelevation (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 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 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).

All dimensions given in millimeters unless noted.

M METRIC VERSION	Iowa Department of Transportation Project Development Division	
	STANDARD ROAD PLAN	RP-1
	REVISION: Remove 8% max. superelevation and edge slope ratio; 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 TWO LANE ROADWAYS		