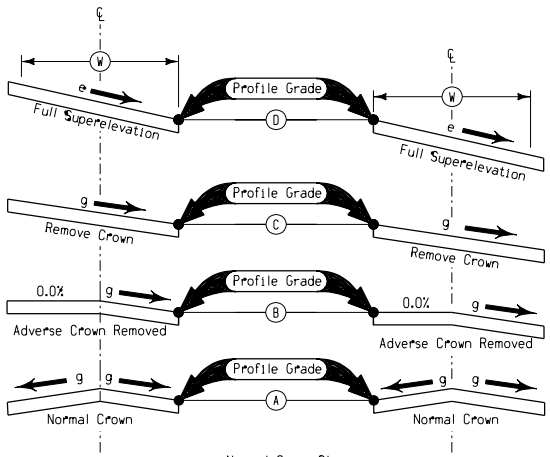
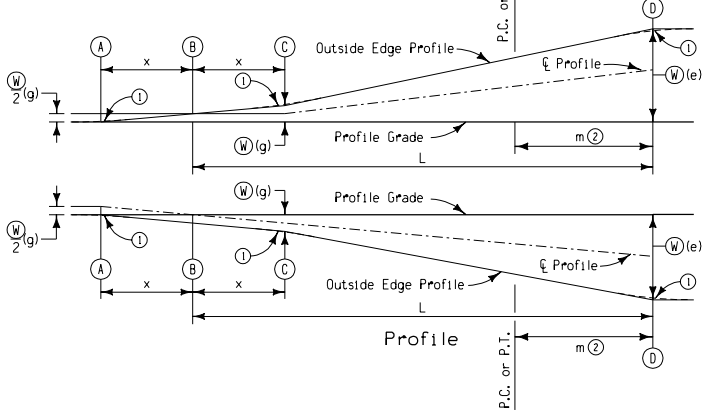
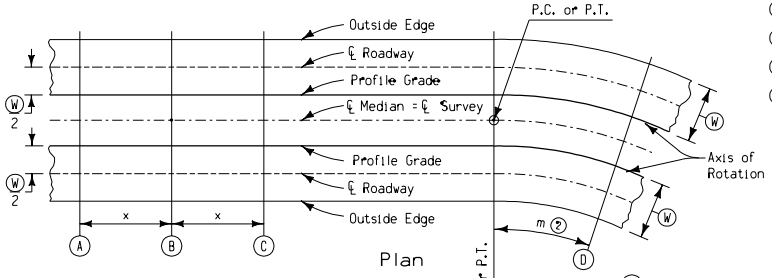


TRANSITION DETAILS WHEN SPIRAL IS USED



g = Normal Cross Slope
e = Full Superelevation

AXIS OF ROTATION AT ADJACENT PAVEMENT EDGES



TRANSITION DETAILS WHEN SPIRAL IS NOT USED

GENERAL NOTES:

Details hereon cover construction details for superelevating a horizontal curve on a four lane divided roadway with the axis of rotation at adjacent pavement edges.

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, the radius of individual roadways shall be considered the same as the radius at the centerline of survey. All lengths (x, L and m) are measured along the centerline of survey.

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

Iowa Department of Transportation
Project Development Division

STANDARD ROAD PLAN RP-2

| | |
|---|---------------------------|
| REVISION: Show Profile Grade at inside pavement edge. | REVISION NO. 6 |
| APPROVED BY: <i>John C. Chapp</i> DESIGN METHODS ENGINEER | REVISION DATE 10-03-00 |

SUPERELEVATION DETAILS
FOUR LANE DIVIDED ROADWAY