

Design Standards Letter

Letter Number: G-1964-59

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Effective Date: 12/01/1964

Section/Plan No.: None

Subject: Standard Drawings

Body

ALL DIVISION, DISTRICT AND URBAN ENGINEERS AND CHIEF COUNSEL

We are furnishing you, under separate cover, several copies of the revised standard drawings as hereinafter described. In addition, we are furnishing you with several full-size reproducibles of these drawings. If additional reproducible prints are needed, we will furnish them upon request.

Standard Drawing 21.00

1. Removed reference to 0.5' parabolic crown and substituted straight line slopes at 3/8" per foot.
2. Added method of attaining superelevation.
3. Removed table of superelevation and widening data and added note to see Standard Drawing 21.60. This will necessitate including Standard Drawing 21.60 when Standard Drawing 21.00 is used.
4. Deleted reference to "Supplementary Roads" in the title block and added a blank space to be filled in for the surface type (aggregate surface or seal coat on a constructed base).

Standard Drawing 21.10

Indicated straight line slopes of 3/16" per foot and added detail of 4' parabolic rounding at the pavement centerline.

Standard Drawing 21.30

Same revisions as Standard Drawing 21.10.

Standard Drawing 21.31

Same revisions as Standard Drawing 21.10.

Standard Drawing 21.60

1. Removed reference to parabolic crown and indicated straight line cross slopes.
2. Changed transition length for removing crown from 33' to 35'.
3. Added note that curves on roads with ADT of 400 or less are not to be spiraled.
4. Reduced maximum degree of curvature for all design speeds.
5. Revised table of "superelevation and Widening Data" to provide Ls lengths consistent with AASHO recommendations.
6. Added Multilane Factors to be used to modify Ls when multilane facilities are to be designed.
7. Removed references to maximum slopes 1:200 along outside edge of pavement.

Standard Drawing 21.61

1. Removed reference to parabolic crown and indicated straight line cross slopes.
2. Changed transition length for removing crown from 33' to 35'.
3. Reduced maximum degree of curvature for all design speeds.
4. Revised table of "Superelevation and Widening Data" to provide Ls lengths consistent with AASHO recommendations.
5. Added Multilane Factors to be used to modify Ls when multilane facilities are to be designed.
6. Removed references to maximum slopes of 1:200 along outside edge of pavement.

Standard Drawing 43.10

1. Indicated straight line slopes of 3/16" per foot and added detail of 4' parabolic rounding at the pavement centerline.
2. Removed scheme of widening and superelevation transition and added note to see Standard Drawing 21.60. This will necessitate including Standard Drawing 21.60 when Standard Drawing 43.10 is used.

The preceding revisions are in accordance with a recent Design Committee action approving the use of straight-line cross slopes.

We are planning to transmit to you the necessary revisions to the Design Manual in a subsequent general letter which will also detail the necessary action to be taken to place these revisions into effect. Until such specific instructions are issued, you will proceed with the design of all projects based on the typical sections and standard drawings approved prior to the receipt of this letter.

L. V. McLaughlin
Engineer of Surveys and Plans