

Design Standards Letter

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Section/Plan No.: None

Subject: Special Provisions, Standard Drawings and Form SP-14

Body

ALL DIVISION AND DISTRICT ENGINEERS AND CHIEF COUNSEL:

We are furnishing you herewith several copies of the following Special Provisions which will be used where applicable, beginning with the February 17, 1967 Letting.

A copy of revised Form SP-14 is also attached.

Shop and Field Welding (for bridge and signing) - This special provision has been extensively revised, necessitating a complete review. The major revisions are as follows:

Section 2 - Added a new paragraph 225(f) and deleted reference to Paragraph 228 (a).

Section 3 - Except for Paragraph 301(a), this entire section has been revised.

Section 4 - Removed reference to Paragraph 402(e), added a sentence to Paragraph 404(c), removed reference to Paragraph 406(k), added a revision to Paragraph 406(1), and revised Table 2.

Section 6 - Revised Paragraphs 607(c) and 609(d).

Appendix E - Deleted reference to Paragraphs E103(d) and E104(a). Added a revision to Paragraph E105(b).

Added provisions whereby the special ruling by the AWS Structural Committee is suitable for application on Federal Aid projects.

Added a certification form.

Use of Explosives and Protection of Streams, Lakes Ponds, and Reservoirs - No change in this special provision was made pertaining to the use of explosives. A new Section 7.11

covering prevention of siltation or pollution of streams, lakes, ponds, and reservoirs has been added.

Planting Trees, Shrubs, and Other Plants, Including Materials - This special provision has been revised primarily to update the provisions and reorganize into a more usable order.

Surface Sealing Bridge Decks - This special provision has been revised to delete the emulsion material and to use a material composed of 50 percent double boiled linseed oil and 50 percent mineral spirits. This material is the same as that currently applied to bridge decks by the Division of Maintenance and Traffic. A provision has also been added whereby the bridge deck must be free of dirt and debris prior to the applications of the sealing material.

Portland Cement Concrete Construction - Pages 3 and 4 of this special provision have been revised to provide space for a revision to Section 47.5.9 covering water measuring equipment, calibrated tanks or meters, tolerance to be used for each increment of water added, and requirement for minimum drum revolutions following each introduction of added water.

Structural Plate Pipe - This special provision has been revised to completely rewrite Section 123.11.1, General Requirements. These requirements cover the bolting of plates, sizes of plates, staggering of seams, number and location of bolts, and sizes of bolt holes. A new Section 123.15 covering repair of galvanizing has also been added to this special provision.

Compacted Embankment and Processing Aggregate Surfacing Material - This is a new special provision covering the construction requirements for compacted embankment and processing aggregate surface to be used where described in the following advance copy of a Design Manual revision. The Design Manual revision will include a new section as follows:

12.4.6.5. Processing Aggregate Surfacing Material and Compacted Embankment, Processing aggregate surfacing and compacted embankment, in accordance with special provisions, are used on projects and on disconnected sections within a project, such as bridge replacements and grade changes, when the project, or the individual disconnected sections within the project, are less than one mile in length and have an ADT of less than 400 vehicles. Aggregate for incorporation into the roadbed is paid for separately. The proposed bituminous surface for these projects is constructed by contract. When the length of project, or the individual lengths of disconnected sections within a project, does not exceed 0.5 mile or the quantity of bituminous material including prime, does not exceed 5,000 gallons, the above construction methods are used except that the proposed bituminous surface is constructed by Maintenance forces from Construction funds. This procedure requires prior approval of the Division of Maintenance and Traffic. Special consideration is given projects located in the vicinity of commercial asphalt plants or to other conditions which may be a determining factor in the selection of the procedure to be used for constructing the surface."

Standard Drawing 86.00 - This standard drawing has been revised to add details which were omitted when the drawing was issued. Sheet 1 of 2 now shows a detail of the buffer end to

be used where guard rail having a beam on both sides of the post (Type B) terminates at the normal guard rail height. The table and sketch for length of chords for a 12' 6" arc has also been added. Sheet 2 of 2 now shows the installation of posts at footings and the method for setting posts through concrete medians and drain basins.

Standard Drawing 21.83 - This drawing has been revised to correct the shoulder slope on the high side of super-elevated curves from 3/8-inch per foot to read super-elevated slope.

Standard Drawing 21.85 - This drawing has been corrected to remove the note "Profile Grade" from the standard crown detail. This note was erroneously indicated to be at the centerline of crown.

Standard Drawing 72.03 - Sheet 1 of 6 has been revised to clarify the location of the hinge-plate for break-away sign posts. This has been done by revising the note beside the hinge-plate detail and adding General Note **8** 7.

L.V. McLaughlin
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