

Design Standards Letter

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Section/Plan No.: P203.50, P604.40, P605.10, P606.00, P609.40, P612.10, P612.20, P731.00, P733.00, P901.00, P901.01, P903.03, P903.08

Subject: Revised Standard Drawings

Body

ALL DIVISION AND DISTRICT ENGINEERS

Attached are copies of revised Standard Drawings numbered 203.50C, 604.40B, 605.10A, 606.00B, 609.40B, 612.10B, 612.20E, 731.00B, 733.00B, 901.00C, 901.01E, 903.03H, and 903.08B.

Drawing 203.50C has been revised by removing the designated width of shoulder.

Drawing 604.40B has been revised to delete reference to bituminous coated corrugated metal culvert pipe and to clarify the wall thickness of the Type B Pipe Collar.

Drawing 605.10A has been revised to change the terminology of rolled stone base to Type 1 Aggregate and granular backfill to Porous Backfill, and revised the sketch for drains at bridge approach slabs.

Drawing 606.00B has extensive revisions on Sheet 2 of 2. The primary revision is the treatment at obstacles at the centerline of depressed medians, which provides for the median to be filled to 6 inches below shoulder elevation with openings at the guard rail termini to provide access for maintenance and drainage by culvert pipe where required.

Drawing 609.40B has a new Title - "Drain Basin, Shoulder Paving and Fill Slopes At Bridge Ends". Reference to Bituminous Drain Basin has been deleted, the minimum thickness of the basin has been increased to 6 inches. The shoulder taper surface and base design is the same as for the travel way. If any or all of the items set out in the Title are called for on the plans, this Standard is to be checked on the Standards Check List.

Drawing 612.10B. This drawing has very minor revisions.

Drawing 612.20E. This drawing has extensive revisions to comply with the MUTCD.

Drawing 731.00B has been revised to provide an alternate for connecting pipe stub to manhole. Revised the Table for base section dimensions, and the General Notes.

Drawing 733.00B has been revised as follows:

Sheet 1 of 4

1. Added the note "joint optional" to indicate that the drop inlet may be cast as one monolithic section.
2. The note referring to the reinforcing on Section B, refers only to the rectangular alternate. The circular alternate is in accordance with ASTM C-478-70.
3. The option of casting a pipe stub with the drop inlet section is given in lieu of expansive mortar.
4. The distance from the top of the pipe to the top of the drop inlet or nearest joint has been changed from 9" to 6".
5. The note referring to the flat slab top has been changed to denote an adapter as this top may be adapted to the rectangular safety tops shown as Type S-1, Type S-2, and Type S-3, as well as for grate type drop inlets located in the pavement.
6. The shell thickness of the type S tops is noted as 6".
7. A note was added referring to the type S tops indicating that they may be cast monolithic with the base section. Any joints are optional and would not be desirable for shallow depth drop inlets.

Sheet 2 of 4

1. The note in the general notes referring to welded wire fabric has been clarified to indicate that this refers only to rectangular sections. A note was added indicating that 2 lift holes or lifting inserts may be provided. A note was added to the Type E top indicating that a circular top will be provided when a circular drop inlet alternate is supplied.

Sheet 3 of 4

1. A note was added to indicate that a joint is optional. The section may be cast as one.
2. The distance from the top of the drop inlet or the nearest joint to the top of the pipe has been changed to 6".

Drawing 901.00C has been revised to change ASA designation to the new designation of ANSI.

Drawing 901.01E has the same revision as 901.00C.

Drawing 903.03H.

1. Sheet 2 of 7. The post size chart has been revised by moving the line for the 4" x 6" slotted wood post to 2.27 ft-Kips and the 6" x 6" slotted wood post to 3.35 ft-Kips. The minimum and maximum height of sign above edge of pavement has been increased. A capping method has been added for use with the steel post sleeve when post is to be installed by maintenance. Added Re-Bars to be welded to bottom of sleeve. Added note pertaining to lumber grading and dressing rules.
2. Sheet 4 of 7. Changed some dimensions for signs above edge of pavement.
3. Sheet 7 of 7. Delineator spacing has been revised for cloverleaf and the table for spacing has been revised.

Drawing 903.08B has been redrawn for clarity.

These revisions are effective with the February, 1972 Letting.

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Surveys and Plans