

Design Standards Letter

Letter Number: D-2000-04

Letter Date: 04/03/2000

Effective Date: 04/03/2000

Section/Plan No.: D1-01, D1-03, D1-04, D4-02, D4-03, D4-04, D4-05, D4-09, D5-03, D6-05, D6-07, D8-04, D9-04, D-70, D-71, D1-03.1, D1-04.2, D2-03.2, D4-02.10, D4-02.13, D4-02.14, D4-04.1, D4-04.2, D4-04.4, D4-04.5, D4-04.6, D6-07.1, D8-03.18, D8-03.24

Subject: Sections 1-01, 1-03, 1-04, 4-02, 4-03, 4-04, 4-05, 4-09, 5-03, 6-05, 6-07, 8-04, 9-04, D-70, D-71, Figures 1-03.1, 1-04.2, 2-03.2, 4-02.10, 4-02.13, 4-02.14, 4-04.1, 4-04.2, 4-04.4, 4-04.5, 4-04.6, 6-07.1, 8-03.18, 8-03.24

Body

Questions concerning the distribution of the Project Development Manual revisions should be directed to General Headquarters, Design Standards Section, telephone numbers 573-526-2919 or 573-526-2903.

ITEM	DESCRIPTION OF REVISION
NOTE	The following revisions are effective April 3, 2000 (unless otherwise stated).
VOLUME I TABLE OF CONTENTS	Revision date changed for Contents sheets and Sections 1-01, 1-03, 1-04, 4-02, 4-03, 4-04, 4-05 and 4-09.
CHAPTER I TABLE OF CONTENTS	Revised subsection titles in Section 1-03 and added figure title in Section 1-04.
1-01	Subs. 1-01.3: revised last sentence of definition of Average Daily Traffic (ADT) to explain that the construction year ADT is used to determine pavement and shoulder configurations or bituminous mixture types.
1-03	Subs. 1-03.7: minor revisions were made to the first paragraph.
FIG 1-03.1	Division names were modified accordingly to new titles.
1-04	Subs. 1-04.3 (6): revised wording to refer to Figure 1-04.2.
FIG 1-04.2	This new figure provides federal funding policies for MoDOT projects. PLEASE REVIEW THIS NEW FIGURE CAREFULLY.
CHAPTER II TABLE OF	Added Figure 2-02.2. This was errantly omitted from Dev. Man. Ltr. #7, 1999.

CONTENTS	
FIG 2-03.2	Removed guideline 3 and renumbered accordingly.
CHAPTER IV TABLE OF CONTENTS	Revised subsection titles in Sections 4-02, 4-03 and 4-09.
4-02	Subs. 4-02.10 and 4-02.13: combined 4-02.10 with 4-02.13 and retitled and renumbered accordingly. Added guidelines for the project manager to authorize the acquisition of right of way.
FIG 4-02.10	Added district engineer signature line and date.
FIG 4-02.13 and 4-02.14	Replaced Joe Mickes with Henry Hungerbeeler.
4-03	Subs. 4-03.12: incorporated 4-03.12 (1) into 4-03.12; and deleted 4-03.12 (2). Subs. 4-03.14 (1) (d): added guidelines for Type 2 field laboratories. Subs. 4-03.19: removed the D-2 sheet (standard plans index) from project manager's list of items to be signed and sealed.
4-04	Subs. 4-04.2 (10): added second paragraph regarding vertical clearances at bridges. Subs. 4-04.3 (5): added design speed greater than 50 mph as part of the criteria where spiral curves are required.
FIG 4-04.1	With the criteria in Subs. 4-04.3 (5), put "NA" in Spiral Curves row where roadway has an ADT less than 1700 and a design speed of 50 or less.
FIG 4-04.2, 4-04.4, 4-04.5, and 4-04.6	Added formula for calculating S.
4-05	Subs. 4-05.3 (3) (c): fixed the auxiliary lane formula.
4-09	Subs. 4-09.4: numerous revisions were made to stress the importance of erosion control measures. Please review carefully. Subs. 4-09.23 (5): this subsection has been added to handle the distribution of final plans to the public. Of importance is the second paragraph which disclaims MoDOT of existing vertical bench mark data.
VOLUME II TABLE OF CONTENTS	Revision date changed for Contents sheets and Sections 5-03, 6-05, 6-07 and 8-04.
5-03	Table 5-03.3: required clearance for all systems with drainage area of 20

	mi ² or larger was reduced to 2.0 ft. and for under 20 mi ² was reduced to 1.0 ft. Metric values were correct and required no change.
CHAPTER VI TABLE OF CONTENTS	Added a title in Section 6-05.
6-05	<p>Subs. 6-05.4: revised fourth and fifth paragraphs stating that Class A pavement repairs should be specified on pavements not to be overlaid immediately; and Class B pavement repairs should be specified on pavements which are going to be overlaid immediately.</p> <p>Subs. 6-05.6: added second paragraph giving additional criteria for widening; Table 6-05.2 was added to help determine widening widths. Design forms D-70 and D-71 were revised accordingly.</p> <p>Subs. 6-05.15: the fourth paragraph of 6-05.1 was moved to this subsection; additional design criteria has been added. Please review carefully.</p>
6-07	Subs. 6-07.1: criteria was added for determining payment by the ton.
FIG 6-07.1	Under Aggregate Base Course, added Type 5 Aggregate for Base (4 in. Thick) and Type 5 Aggregate for Base (100 mm Thick).
FIG 8-03.18 and 8-03.24	Corrected the figure numbers these two figures reference.
8-04	Subs. 8-04.9: added Type C crashworthy end terminals for consideration as crash cushions; added guidelines for the installation of Type B end terminals.
9-04	Errata: corrected "CHAPTER IX" in the header. Revision date has not changed.
D-70 and D-71	These design forms were revised to try and clarify the widening process. The additional 9 in. on both sides of the widened road is to allow for future resurfacings up to 9 in. The initial layer of asphaltic concrete should extend to the edges of the widening. Each successive layer of asphaltic concrete shall carry out to the limits of the layer below it.

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