

Design Standards Letter

Letter Number: **D-1994-14**

Letter Date: **10/20/1994**

Effective Date: **10/01/1994**

Section/Plan No.: **D1-01, D1-03, D2-01, D2-02, D2-03, D3-03, D4-01, D4-02, D4-04, D4-07, D4-08, D4-09, D6-05, Typical Section**

Subject: **Revisions to Sections 1-01, 1-03, 2-01, 2-02, 2-03, 3-03, 4-01, 4-02, 4-04, 4-07, 4-08, 4-09 and 6-05. - Typical Section M-D-62-NPD (New)**

Body

Enclosed are revisions to the Design Division's Metric Policy, Procedure and Design Manual for the above noted sections and figures and a new typical section as noted. These revisions update the metric manual to changes made in the English manual with design manual letters 11 and 12. Also, corrections have been made to errors reported by users. Major changes are summarized as follows:

Contents Sheet for Volume I. Revision date changed to 10-1-94.

Chapter I Table of Contents. Revision date changed to 10-1-94. Under Section 1-01, the third subsection number has been corrected to 1-01.3.

Section 1-01, Introduction. Revision date changed to 10-1-94.

Typical Section D-62-NPD. Revision date changed to 10-1-94. This is a new typical section for medium duty pavement on minor arterials with design ADT greater than 1700.

Subsection 1-01.6(6). An error in the conversion example in the last paragraph was corrected.

Section 1-03, General Procedures. Revision date changed to 10-1-94.

In Subsection 1-03.3(2), under the explanation of "Line 4", the word "Reconnaissance" has been revised to "Location Study" as a possible subject heading.

In Subsection 1-03.7(1), the words "Federal-Aid" have been corrected to "Surface Transportation Program (STP)." Also, the last six sentences have been replaced with current instructions which: (1) reference the LAN for the urban agreement; and (2) add instructions previously shown on Form D-45.

Figure 1-03.1, Work Procedure Guide. Revision date changed to 10-1-94. Under "Design Division Action" for "Design (Years 4 & 5)", item (2) has been revised by eliminating "and furnish district with comments."

Chapter II Table of Contents. Revision date changed to 10-1-94.

Section 2-01, Conceptual Study. Revision date changed to 10-1-94. Subsection 2-01.2(3) was corrected to match the English manual. The second sentence includes "...design variance approval by the assistant to the chief engineer, design." Subsection 2-01.6(2)(c) last sentence, special provisions was changed to specifications.

Figure M2-01.5, Minimum Design Standards - 3R Projects. Revision date changed to 10-1-94.

Vertical Alignment SSD was changed as follows:

>1700 - 100 m

400-1700 - 85 m

Cross slope (existing) is 1.56%.

Figure M2-01.7, Minimum Urban Design Standards - 3R Projects. Revision date changed to 10-1-94. Cross slope (existing) is 1.56%.

Section 2-02, Public Hearings & Meetings. Revision date changed to 10-1-94.

Subsection 2-02.5(2), first sentence of last paragraph was changed to "...the district engineer's staff will....."

Section 2-03, Strip Maps. Revision date changed to 10-1-94.

Subsection 2-03.3 has been revised to remove reference to the Design Division approving the strip map. This involves various locations in the text and the designer should review the entire section.

Subsection 2-03.4(6) has been revised to reference light, medium, and heavy duty instead of low, intermediate and high type.

Subsection 2-03.4(11) has been revised by removing the word "approval" in two places in the fifth sentence and changing the grammar slightly.

Subsection 2-03.4(12) has been revised to replace the words "submitted for approval" with the word "completed" in the first sentence of the second paragraph.

Subsection 2-03.5 has been revised to delete the words "for review, recommendations, and approval" in the first sentence. In the fifth sentence, the words "and necessary to properly review the map" have been removed.

Subsection 2-03.6 has been revised in the fifth sentence by replacing the words "request that" with the word "establish" and deleting the words "be established." The sixth sentence has been deleted in its entirety.

In Subsection 2-03.7, the word "submission" in the first sentence of the second paragraph has been replaced with the word "completion." Also in the second paragraph, the last sentence has been revised by replacing the words "location study

report" with the words "environmental document." The last sentence of this subsection has been reworded to require a field check before completion of the final strip map.

Section 3-03, Photogrammetric Surveys. Revision date changed to 10-1-94. Table M3-3.2 Photogrammetric Survey vs. Conventional Survey. The format of this table was corrected.

Subsection 3-03.4(4)(a)...consider the following:"

Chapter IV Table of Contents. Revision date changed to 10-1-94. New figures M4-02.11 and M4-02.12 were added.

Section 4-01, General. Revision date changed to 10-1-94. Table M4-01.1, Accuracy for Plan Dimensions. The format of this table was corrected.

Section 4-02, Right of Way Plans. Revision date changed to 10-1-94. Several minor grammatical errors were corrected in this section. Subsection 4-02.8 and 4-02.9 have been extensively revised to reflect the current policy for filing plans. Instructions are included for the case when right of way is acquired by negotiations and also for the case when condemn- ation is required. Instructions are also included as to the proper seal and signature to be used on the title sheet of the plans.

Figure M4-02.11, Sample Letter for Condemnations. Revision date changed to 10-1-94. This is a sample submittal letter for plans when condemnation is necessary to acquire right of way.

Figure M4-02.12, Sample Letter for Condemnation (Amended Plans). Revision date changed to 10-1-94. This is a sample submittal letter for amended plans when condemnation is necessary to acquire right of way.

Section 4-04, Basic Design Criteria. Revision date changed to 10-1-94. Subsection 4-04.3(8) Stationing for Main Roadway. The U.S. Survey foot factor was corrected.

Figure M4-04.1, General Design Data Notes. Revision date changed to 10-1-94. Slope convention was changed to metric (V:H).

Figure M4-04.1A, General Design Data Notes. Revision date changed to 10-1-94.

Format errors were corrected.

Footnote (1) kmph was corrected to km/h.

Footnote (16) was changed to refer to M-D-62-NPD.

Figure M4-07.1, Basic Design Criteria. Median width for Principal Arterial Streets

2, 3 or 4; and 5 lanes was corrected to 4.2 m.

Footnote (7) added reference to Type U1 shoulders.

Section 4-08, Grading. Revision date changed to 10-1-94. In subsection 4-08.3(b), the first four paragraphs have been completely revised to address the current policy that borrow areas are to be provided by the commission where practical. The revision also requires that environmental concerns be satisfied on all borrow areas, regardless of whether furnished by the commission or the contractor.

Figure M4-08.1, Balance Point & Excavation Division Point Example. The groundline profile was noted "Ground Profile" instead of "Profile".

Figure M4-09.7, Guide for Seeding Mixture and Rate of Application. Slope convention was converted to metric (V:H). Under "Rural Areas in Region 2" 30' was converted to 9 m.

Figure M6-05.1, Resurfacing Sketches. Revision date changed to 10-1-94. The border dimensions have been revised to allow for proper binding into the proposal. Also, a small circle for page number has been added. The page number is to be added by the main office.

tea/dts

Enclosures