

# Design Standards Letter

Letter Number: **D-1997-04**

Letter Date: **04/28/1997**

Effective Date: **04/28/1997**

Section/Plan No.: **D1-01, D2-01, D2-06, D4-03, D4-08**

Subject: **English and Metric Revisions**

## Body

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Enclosed are English and Metric revisions and additions to the Design Division's Policy, Procedure and Design Manual for the above noted sections and [the following] figures:

Figures 2-01.1, 2-06.1 and M4-08.1 (Metric only). New Figures 1-01.1 and 1-01.2

Revisions and additions are summarized as follows:

Contents, Volume I. Revision date changed to 4-28-97 for the Contents sheet and for Sections 1-01, 2-01, 2-06, 4-03 and 4-08.

Table of Contents, Chapter I. Revision date changed to 4-28-97.

Added the titles of Figures 1-01.1 and 1-01.2.

Section 1-01, General Information. Revision date changed to 4-28-97.

Subsection 1-01.4, removed list of abbreviations and created Figure 1-01.1.

Subsection 1-01.5, removed list of standard forms and created Figure 1-01.2.

Metric Subsection 1-01.6 Table 1-01.3, corrected the area equivalent of one hectare to 10,000 m<sup>2</sup>.

Figures 1-01.1 and 1-01.2. Revision date changed to 4-28-97.

These two figures were created by removing the lists for the accepted abbreviations and standard forms from the text of Section 1-01. Figure 1-01 has several new accepted abbreviations. Figure 1-01.2 also has a few new forms. In particular, the D-12, D-32, D-33 and D-98 have been added. Forms D-14 and D-26 have been deleted.

**Table of Contents, Chapter II. Revision date changed to 4-28-97.**

**Revised Section 2-01 and 2-06 titles to reflect changes made.**

**Section 2-01, Conceptual Study. Revision date changed to 4-28-97.**

**Subsection 2-01.2, third bullet, split into another bullet. In fourth bullet, says that a conceptual study report may be prepared while pending classification as a CE2 project, but only after receiving approval from the FHWA as a CE project. The CE2 form is available on LAN. Added third paragraph stating that for some CE and CE2 projects, it is advisable to prepare a location study report rather than a conceptual study report. REVIEW THIS NEW PARAGRAPH CAREFULLY. Seventh paragraph, added first sentence requiring a summarization in the conceptual study letter of all environmental work completed at the time the conceptual study letter is prepared.**

**Figure 2-01.1. Revision date changed to 4-28-97.**

**On page 2 of 2, added new ENVIRONMENTAL SUMMARY section.**

**Section 2-06, Location Study/Environmental Report. Revision date changed to 4-28-97.**

**Subsection 2-06.1, second sentence, added "and environmental constraints".**

**Subsection 2-06.2, added last sentence.**

**Subsection 2-06.2(2)(a) revised entirely. REVIEW CAREFULLY.**

**Added Subsection 2-06.2(2)(b) Proposed Design Criteria. This new subsection discusses various design criteria and some of it's possible effects in early design.**

**Subsection 2-06.2(2)(c), added second sentence about calculating accident rates for logical segments of long corridors.**

**Subsection 2-06.2(2)(d), added last sentence requiring an LOS for any ramps, ramp termini and weaving areas of an interchange.**

**Subsection 2-06.2(2)(e), first paragraph, added last two sentences about discussing major actions and NEPA clearance in the location study letter. In second paragraph, added last sentence about setting logical termini on all projects.**

**Added Subsection 2-06.2(4). This new subsection was taken from part of the preceding subsection. This subsection discusses cost estimates with respect to alternates, categories and displacements.**

**Added Subsection 2-06.2(6). This new subsection details what is needed in the Environmental Summary section of the location study report. REVIEW**

**CAREFULLY.**

**Subsection 2-06.2(7)(c), added last two sentences detail the case of disposing of an existing route to a city or county for maintenance and the necessity of a letter of intent from that entity.**

**Added Subsection 2-06.2(8). This new subsection details information for the Comments and Recommendations section of the location study report. REVIEW CAREFULLY.**

**Subsection 2-06.2(9), added third bullet, stating that a typical section is required as an attachment to the location study report. Third paragraph, added last two sentences stating that alternates should be identified by either color coding or differing line symbols.**

**Renamed Subsection 2-06.3(1), The districts are now required to prepare ALL location study reports.**

**Deleted Subsection 2-06.3(2) and (3).**

**Renamed and renumbered Subsection 2-06.3(2), First paragraph, added tenth and eleventh sentences discussing scheduling of location public hearings. Third sentence from last, now requires the district engineer to present the location study report to the commission after the FHWA's approval of the FONSI or ROD.**

**PLEASE REVIEW THIS SECTION WITH CARE.**

**Figure 2.06.1. Revision date changed to 4-28-97.**

**Page 2 of 2, remove Functional Classification from the table under Proposed Design Criteria. Added a paragraph under Proposed Design Criteria which shall state the functional classification and the traffic designation of the route. Also, added a sentence below the table stating a figure or exhibit number of an attached typical section of the proposed facility.**

**Table of Contents, Chapter IV. Revision date changed to 4-28-97.**

**Revised Section 4-03 and 4-08 titles to reflect changes made.**

**Section 4-03, Plans-Specifications-Estimates. Revision date changed to 4-28-97.**

**Subsection 4-03.2(4), revised fifth sentence to now require that a project's beginning and ending be identified by station AND log mile. For metric projects, an English log mile shall still be used.**

**Deleted Subsection 4-03.2(8).**

**Subsection 4-03.13(1)(a), revised extensively with respect to General Letter No. 5, 1997.**

**REVIEW CAREFULLY.**

**Subsection 4-03.14(1)(d), Revised paragraph to state that field laboratories shall be required on projects as per the standard specifications.**

**Added Subsection 4-03.18. Signing and Sealing. This new subsection details the department's policy for signing and sealing project plans and job special provisions. REVIEW CAREFULLY.**

**Section 4-08, Grading. Revision date changed to 4-28-97.**

**Subsection 4-08.1(2), revised to better clarify the definition of removal of improvements and Class 3 excavation.**

**Subsection 4-08.3(1)(b), first paragraph, added sixth sentence stating the Preliminary Studies Division should be contacted the suitability for use of commission furnished borrow. Sixth paragraph, deleted last sentence about submitting a D-26 for Fiscal Service's use. This no longer is required.**

**Subsection 4-08.3(1)(d), revised first sentence and added second and third sentences to better describe the basics of calculating overhaul.**

**Figure M4-08.1. Revision date changed to 4-28-97.**

**This figure was revised to fix a few drafting errors.**

**dts**