

Design Standards Letter

Letter Number: G-1997-10

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Effective Date: 04/24/1997

Section/Plan No.: None

Subject: Maintenance Surface Level Projects

Body

In order to coordinate and expedite the preparation of projects for the 1997-1998 Maintenance Surface Level Program, we are requesting that ALL PROJECTS be prepared in metric units and be submitted to Support Center Design by **September 1, 1997**. This will enable the bidding and contract services section to adjust the groupings, if necessary, and to appropriately schedule the bid opening dates.

For guidance on Surface Level Course Plan Preparation, see the attached correspondence. To shorten the processing time, improve the quality of plans and to standardize procedures across the state, the following should be used when preparing plans in metric units.

1. Each project must have, as a minimum, the following plan sheets:
 - a. Title sheet, with north arrow pointing to the top of sheet, if possible.
 - b. Length of project sheet - should include "exceptions".
 - c. Typical section sheet - should include "estimate factors".
2. The plans are placed in a proposal that contains a vertical format. The plans should read accordingly when possible. Original plans should be submitted using the format shown on the attached Figure M6-05.1 of the Metric Design Manual. To improve the quality of printing please send originals, DO NOT send copies.
3. Do not break projects at district, county, or city limit lines (short projects which abut should not be shown as separate projects).
4. Projects less than three (3) kilometers in length should have 24.1 square meters of construction signs. Projects greater than three (3) kilometers in length should have 25.9 square meters of construction signs.
5. Projects greater than 16.1 kilometers in length should be split into sections 16.1

kilometers in length or less and be shown as such on the plans. Do Not Split The Estimate.

6. The Support Center will assign all project identification numbers.

7. Attached is an acceptable sample copy.

Tack quantities are based on tacking a 0.6 m band along each edge of a 6.1 m pavement, plus 25% of the remaining areas at an estimated rate of 0.27 L/m². Other quantities to use are as follows (on a per kilometer basis):

<u>Description</u>	<u>Unit</u>	<u>Type</u>	<u>Plant Mix Rate</u>	<u>Type IC Rate</u>
Asphalt Cement (Surface Leveling)	0.1	Mg	22.1 Mg/km	32.1 Mg/km
Mineral Aggregate (Surface Leveling)	1.0	Mg	344.5 Mg/km	613.2 Mg/km
Tack Coat	50.0	Liter	655 L/km	Same

These rates are based on state wide average estimate factors for 366.5 Mg/km of 6.1 m travelway compacted Plant Mix Bituminous Surface Leveling and 645.3 Mg/km of 6.1 m travelway compacted Type IC Asphaltic Concrete mix. Rates for individual projects will vary and are shown on the typical section sheets for the project. **It should be noted that if Type IC Mix is used, a minimum 45 mm thickness is required.** The calculated rates for the Type IC Mix reflect a 45 mm thickness.

The Support Center is still responsible for the insertion of traffic control plans, revised standard plans and job special provisions, as per General Letter No. 2, 1995.

Please contact this office if you have questions concerning this letter.

gm/vh

Attachments