

# Design Standards Letter

**Letter Number: G-1999-09**

**Letter Date: 06/09/1999**

**Effective Date: 06/09/1999**

**Section/Plan No.: None**

**Subject: Maintenance Surface Leveling Projects**

## Body

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In order to coordinate and expedite the preparation of projects for the 1999-2000 Maintenance Leveling Surface Program, we are requesting that ALL PROJECTS be prepared in English units and be submitted to Support Center Design by **September 1, 1999**. 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 leveling 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 English units.

1. Each project must have, as a minimum, the following plan sheets:
  - a. Title sheet, with north arrow pointing to the top of the 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 Figure 6-05.1 of the *Project Development 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 two (2) miles in length should have 268 square feet of construction signs. Projects greater than two (2) miles in length should have 288 square feet of construction signs.
5. Projects greater than 10 miles in length should be split into sections 10 miles 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 2 foot band along each edge of a 6.1 m pavement, plus 25% of the remaining areas at an estimated rate of 0.085 gallons/square yard. It should be noted that the asphalt cement (surface leveling) should typically be PG 64-22. Other quantities to use are as follows (on a per mile basis):

Sec 402 BP-1 and

Description Unit Type Plant Mix Rate Superpave Mix Rates

Asphalt Cement 0.1 Ton 39.0 Tons/Mile 55.0 Tons/Mile  
(Surface Leveling)

Mineral Aggregate 1.0 Ton 611 Tons/Mile 1084 Tons/Mile  
(Surface Leveling)

Tack Coat 10.0 Gallon 278 Gallons/Mile 278 Gallons/Mile

The above rates are based on state wide average estimate factors for 650 Tons/Mile of 20 foot traveled way compacted plant mix bituminous surface leveling and 1140 Tons/Mile of 20 foot traveled way compacted Plant Mix Bituminous Pavement (BP-1) or Superpave mixtures. Rates for individual projects will vary and are shown on the typical section sheets for the project. Minimum thickness for BP-1 and Superpave mixtures shall be 1 3/4 inches. The calculated rates for the BP-1 and Superpave mixtures reflect a 1 3/4 inch thickness.

If special situations require limiting loads on a given route, a "Haul Road Restriction" special provision will be considered on a project by project basis. Otherwise, the only load restrictions, other than the 80,000 pound legal load limit, will be any posted bridge load limits.

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.

Templates for the location sketch, project length and typical section(s) are available, in Microstation format, as attachments to this letter in the Design Standards Letters database.

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

pm/vh

Attachments



g199909a.pdf



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TYPSECT.DGN