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March 8, 1999

**MEMORANDUM**

**TO:** District Engineers

**FROM:** CHIEF ENGINEER  
James H. Kopf *JHK*

**RE:** Chemically Treated Subgrades

In an effort to provide increased integrity in the subgrades, all paving projects shall include chemical treatment of the subgrade prior to the placement of the pavement structure (pavement, base and subbase material). The implementation of this policy will result in more consistent pavement structures statewide.

Normally, typical sections will be developed in a manner which allows a selection between lime treatment (6 inch depth, 6% lime, class "C" application) and lime fly ash treatment (6 inch depth, 3% lime, and 12% fly ash), depending on soil conditions. In this case, plan quantities will be based on an estimated percentage of each of these two methods. Each District will be required to recommend the type treatment to be used (example: 50 percent lime treatment and 50 percent lime fly ash treatment).

The treatment of the subgrade will not affect the pavement design or the design CBR.

This requirement may be waived in the case of short lengths of new pavement, or local road relocation.

The implementation of this policy in regards to previously approved designs will be determined on a case-by-case basis.

JHK:KP

pc: Federal Highway Administration  
Assistant Chief Engineer-Preconstruction  
Assistant Chief Engineer-Operations  
District Construction Engineers  
District Materials Engineers  
Materials Division  
Geotechnical Branch  
Construction Division  
Research Division  
Roadway Design Division  
Central Files

