

Variability of Subgrade's Bearing Capacity, Denoted as a CBR Value,
after it's Stabilization with Lime and Fly-Ash

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ABSTRACT

In various areas in Thrace, where road construction projects were made, serious damages have been observed and were attributed to the natural soil. The soils have been tested with the CBR test in order to find their bearing capacity. Their classification in both AASHO and Unified classification systems denoted their clayey nature and their low bearing capacity. That prediction has been verified by CBR tests on soaked specimens.

It was decided to use different stabilizing agents in order to increase the bearing capacity of the in-situ soil. The soils were mixed with different percentages of lime, fly ash and were retested. The results presented in this paper showed a definite improvement, which must be examined in the scope of economy, in order to use this method on the site.