ABSTRACT

PAVEMENT ROAD PLANNING
RIGID PAVEMENT DESIGN
USING THE PROGRAM BORLAND DELPHI

Development of land transport, especially vehicles that include the size and number of species has provided a great influence on the development of transportation in Indonesia. Therefore, the problem of a smooth flow of traffic, safety, comfort, support and resources from pavement roads must be considered. Pavement road planning system in Indonesia that, in general, use the manual way, not considered optimal because it causes inefficiently performance of the civil engineering. With the problems, then many problems arise, among others, to processing requires a long time so that delays often occur. Based on the problems, then this system should be developed to optimize the performance so that problems can be overcome there.

With the design of the system that computer programming, data processing becomes faster and more accurate. Data security is more secure so that it can improve the efficiency performance of the system. In the implementation of the planning system road pavement, the author uses language program using Borland Delphi and MySQL 5.0 database server.

Tests are applied on this system is a method of testing the results of the comparison calculation planning and manually using the program. Based on the results of the testing was done to give the conclusion that the planning system by using the program values are not much different from the calculation manually. This is because the Iterations and the rounding of the calculation process. However, the functional system can produce output that is expected.