FINAL PROJECT

BETTERMENT DESIGN OF JANTI - NGRUPIT ROAD
STA 0+000 S/D STA 4+000 AT PONOROGO REGENCY
EAST JAVA PROVINCE

Composed By:
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Abstrak

Section of Janti – Ngrupit road which connect Ponorogo regency - Madiun Regency .Janti – Ngrupit Road was village road. Because the movement bus station Janti – Ngrupit road change function it was for light vehicle now becomes heavy vehicle ( large Bus ). Therefore the thickness of hardening is not enough for the load traffic. In the final project Janti – Ngrupit road is design for which it relevant with 10 year.

In the analysis of capacity planning, for the need of extend road, it is used Method based on Indonesia MainRoad Capacity Manual, Manual Kapasitas Jalan Raya Indonesia (MKJI) year 1997 , Planning of thick layer ( Overlay ) using intruction planning of thick hardenig flekxible road by Deflection Method Pd T – 05 – 2005 – B .for the planning of drainage, it refers to ( SNI 03 – 3434 – 1994) and for budget of work estimate, it is used the analysis unit price (RAB) from Ponorogo administration.
From the planning with the age of 10 years planning (2020) can be found that the value of DS = 0.401 so the road capacity for 10 years does not need extended. The result of deflection this road need planning of thick layer (overlay) with Laston MS 744 thickness 4 cm at STA 0+000 – 0+600, thickness 13 cm at STA 0+600 – 2+600 and thickness 9.5 cm at STA 2+600 – 4+000 for the dimension of drainage it will used river stones structure with base longitudinal section (d) = 0.52 wacking (w) = 0.51 drainage width (b1) = 0.43 m and b2 = 1.48 m for the estimate of work budget of the whole works in this last project got Rp 500,000,000.00

For the planning result of the upgrading road above, it hopes that the planning can offer come of service the traffic burden which is very heavy relates to the planned