TRAFFIC ENGINEER ANALYSIS WITH FLYOVER AT INTERSECTIONS OF NGINDEN STREET – PRAPEN STREET SURABAYA

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Abstract

Surabaya is second biggest city after capital jakarta, in intersection jl. nginden - jl. prapen - jl. Panjang jiwo - jl. jagir wonokromo be one of the economy growth activity supporter access either through regional and non regional city surabaya, now still not yet can to decrease at this intersection. the mentioned caused by among others because management then rush by it less appropriate, not condition the maximal geometric existing intersection and road expansion inexistence in intersection. in location necessary done current arrangement change then rush by it. by because the mentioned, intersection performance analysis by using flyover that is with done stripe in four wheel drive keatas to flyover, and to detect elegibility flyover necessary done analysis returns in range 5 year to the fore, with estimated flyover can be operated in the year 2011.
method that used with count capacity performance level (C), saturation degree (DS), long queue in condition existing and compared with saturation degree (DS) after existence flyover and in range 5 year existence flyover with development existence flyover, from traffic analysis result in road existing in the year 2011 got saturation degree value (DS) 1,795 (in top morning) with delay total 730.86 det with LOS F and in the year 2011 (with flyover) is got value (DS) 0,860 (in top morning) with delay total 37,42 det with LOS C and to 5 year (DS) 0,962 (tops morning) with delay total 42 det LOS E. planning condition flyover 2/2 UD (road fly) in 2011 year saturation degree (DS) 0,774, speeds goes (V_LV) 36,74 km/h, time go through (TT) 72.469 det and accompaniment degree (DB) 0,846, while to flyover in 5 year to the fore with degree saturation (DS) 0,864, speeds goes (V_LV) 39,49 km/h, time go through (TT) 78,9190 det and accompaniment degree (DB) 0,875. from analysis result on show that traffic performance by using flyover still good enough until 5 year forwards and as yardstick to planned flyover

keyword: intersection, flyover, surabaya