

ABSTRACT

ANALYSIS OF THE EFFECT OF SIDE FRICTION ON THE PERFORMANCE OF TRAFFIC (Case study : Laksamana Yos Sudarso Road – Panjang Market)

by

MEI LISA ADHA

Side friction is road side activity that can lead to conflict and affect the movement of the traffic flow and reduce the function of road performance. The amount of side friction affects the capacity and speed of road vehicles. The purpose of this research was to analyze the effect of side friction caused by the traffic performance and determine design solutions to improve the traffic performance.

This research are obtained by doing survey of traffic volume to see the density of vehicles, then surveys the side friction to see the influence of interference and instantenous velocity surveys both distrubed and undistrubed side friction. This research doing in 500 meters in a market segment of Panjang. Next calculation use the Manual Capacity of Indonesian Road in 1997 for the Urban Roads.

Based on calculation, the highest traffic volume is 922 pcu/hours with a degree of saturation of 0,97 with a total volume of vehicles by 2636 pcu/hour obtained a level of service C and the lowest average speed of 15,2 km/hour. To reduce the level of side friction due to vehicle parking and stopping on the shoulder of the road, it is necessary to ban the installation of stop signs along the road market.

Keywords : side friction, traffic volume, urban roads