

PERFORMANCE ANALYSIS OF TRAFFIC DUE TO CONSTRUCTION OF GUNUNG LENGIS STADIUM GRESIK

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ABSTRACT

Gresik is an industrial city in east Java. The changes in land use will result in a change of its transportation system. With the plan to built Gunung Lengis stadium with capacity of 30,000 seats located in Veteran street, Segoromadu village, Kebomas districts, Gresik regency will make enhancement of new traffic in the region and then will provide additional volume of traffic overburdening the roads and intersections around Gunung Lengis stadium.

Analysis of the performance of intersections and road segments for current conditions and 5 years to come till 2020 is implemented with basis of the MKJI 1997 method and KAJI program.

Based on the analysis of existing condition in 2012 and intersection condition in 2015 level of service at “Nippon Paint” intersection and “Mc Donald” intersection at the height of morning, afternoon and evening, the average is between LOS E to LOS F so that the intersection condition is not eligible. It needs improvement in geometric changes, traffic management and signal timing at intersection in 2015 till 2020. It is recommended for road widening on

Romokalisari, Mayjen Sungkono dan Veteran street without removing the channel to decrease the volume of vehicles heading Gunung Lengis stadium.

Key Words : Stadium, enhancement, Intersections, LOS

