

ABSTRACT

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The Lenteng Agung area, South Jakarta City is an area that can be classified as an area with a high level of development with many public places. As a commercial area, the roads in this area are filled with shops and shopping centers. The high volume of vehicles in the area and the confluence of two roads into one causes an imbalance between the volume of vehicles passing and the availability of adequate road capacity. Therefore, research is needed regarding the performance of the network in the area and alternative solutions to overcome problems that arise in the area. Data collection is carried out during peak hours. Data was taken in two observation sessions with an interval of 15 minutes for 2 hours. The data taken is data in the morning session at 07.30 - 09.30 WIB, and the afternoon session at 16.00 - 18.00 WIB. The analytical method used is the Indonesian Highway Capacity Manual (MKJI, 1997). From direct calculations and observations and using the formula the degree of saturation value obtained is 1.67, which means this area is experiencing problems with road capacity. The results of the analysis and calculation of the performance of the road section showed that several solutions were offered that could be implemented to improve the performance of the road on this section, such as adding medians to the road or adding cones along the braided sections.

Keywords: Traffic, Single Linkage, Indonesian Road Capacity Manual