STUDY OF RELOCATION OF PARKING SYSTEM FROM ON STREET PARKING TO OFF STREET PARKING (CASE STUDY DHOHO STREET, KEDIRI)

Name : Deka Agrapradhana  
NRP : 3109100045  
Department : Civil Engineering – FTSP – ITS  
Supervisor : Ir. Ervina Ahyudanari ME, Ph.D.

ABSTRACT

The background of this study is traffic congestion caused by activities on-street car parking in the shopping area at Dhoho street. The effective traffic width of the Dhoho street is reduced by on-street parking activity that leads to disrupted traffic flow. Street parking arrangements at Dhoho street will be transferred to the off-street parking. Effectiveness of the parking location transfer needs to be analyzed from point of view of traffic flow and usage of the new parking lot. One of the infrastructure to support relocation of parking to off-street parking is a representative pedestrian facilities to encourage people to use a centralized parking area and then walk to their destination.

Having these problems, it is necessary to investigate the effect of on-street parking towards the capacity of streets, traffic characteristics and analyze service levels of pedestrian facilities.

This study suggests that the performance of existing streets have undergone the degree of saturation with a value of 0.75 on weekdays and 0.80 on weekends and 13 vehicles is experienced a queue, so the transfer of the parking location to off-street parking should be applied. After moving the parking location, the traffic’s degree of saturation supposed to be 0.46 at weekdays and 0.49 at weekend and pedestrian facilities on Dhoho street has value level of service A.
Keywords: On-street Parking, Off-street Parking, Pedestrian Facilities, Dhoho Street Kediri