

ABSTRAK

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FGD on Transportation Development stated that the absence of city and sub-district public transportation in Pontianak City causing a high potential for traffic violations. Movement of transportation in Pontianak City was dominated by students round-trip to school and high school students (SMA) dominates traffic violations in Pontianak City especially the District of North Pontianak. School transportation is efficient in reducing the level of traffic violations by students. This study uses Overlay analysis from GIS to obtain new information by overlapping information in determining the pick-up point and Network Analysis to analyze the network based on point to point in determining school transportation best routes. There are 18 pick-up points located in public facilities, government facilities and buildings with higher density district will have more pick-up points. The start and end of the route start from Batu Layang Terminal as a bus storage area. There are 3 recommended routes. Route A has a track length of 9.8 kilometers with a total travel time of 12 minutes and passes Jl. Khatulistiwa – Jl. Gusti Situt Mahmud - Jl. Selat Panjang; Route B has a track length of 13.2 kilometers with a total travel time of 16 minutes and passes Jl. Khatulistiwa – Jl. Kebangkitan Nasional – Jl. Khatulistiwa – Jl. Budi Utomo – Jl. 28 Oktober; Route C has a track length of 13.6 kilometers with a total travel time of 17 minutes and passes Jl. Khatulistiwa – Jl. Budi Utomo - Jl. Parwasal – Jl. Gusti Situt Mahmud - Jl. Parit Pangeran – Jl. 28 Oktober.

Keyword: route, school route