ANALYSIS JUNCTION AT ROAD ACCESS
TO AIRPORT OF NEW JUANDA

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Abstraction

Transfer of society from and into the Surabaya so big, because of Surabaya is the
destination to working, travelling, and trading. And the biggest transfer happened at airport of
Juanda. With many transfer of the society to increase service, so making new airport.

With the situation has required also access go to new airport. At the time now already
have the access at there, and there are junction between from roadway of sedati, roadway of
juanda, and from itself airport direction. But at the moment also added again with from road of
ramp TOLL of Waru - Juanda.

Analysis conducted at two junction that is first is SIMPANG A ( Road By Pass Juanda -
Road from Terminal of Cargo - Ramp TOLL of Waru Juanda) with analysis is condition of traffic at
condition in this time until year 2013. Second junction SIMPANG B ( Roadway of Sedati - Road
By Pass Juanda ) with analysis is condition of traffic at the moment until year 2013.

Parameter used to evaluate junction performance the evaluated value degree of
saturation (DS) at the time of peak hours, Pick of Morning, pick of Noon, and also thought well of
Pick Evening if less than 0.85 (DS < 0.85). From result of analysis got DS at condition of existing
for the Simpang A there are some situation where degree of its saturation (DS) in a condition
above required boundary because more than 0.85. And so do at Simpang B, but at Simpang B
the condition of its traffic more critical, almost each; every direction in a condition culminate any,
morning, evening and also noon, although not always in all direction. In the year 2013 coming to
be got to through analysis, that happened the make-up of vehicle volume, by that way getting
also analyse that DS for year 2013 rated to become above normal or more than 0.85 in Simpang
A and of B.

So that with existence of traffic management expected DS degrees A and of B good in a
condition less than 0.85. At Simpang A traffic management conducted by restructuring of Cycle
Time, while at Simpang B made a change is wide [of] and phase traffic. Is thereby got by DS for
the Simpang A and of B less than 0.85

Keyword : Degree of saturation, Cycle Time, Phase, Year 2013).