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Re - evaluating elements of an existing multi - level intersection : Naur interchange as a case study (Article)

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Abstract

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Multi - level intersections (Interchanges) are very effective in reducing crashes by removing a conflicts points. Na`ur interchange is considered a very important interchange that link some of the important destinations in Amman the capital of Jordan. Due to the importance of this intersections, it carries a heavy daily traffic movements that causes traffic congestion during peak hours in addition to traffic accidents produced from the conflicts of vehicles in weaving section in expressway (Airport highway). This project aims to propose an efficient, economic solution through a certain design criteria. The research project basically relied on the specifications of the American Association of State Highway and Transportation Officials (AASHTO) Code through which have determined the side friction factor, maximum super elevation, pavement width of turning movement on ramps, the appropriate acceleration, deceleration and taper lanes and minimum radiuses of the curvatures for all the interchanges ramps and loops after estimating a proper design speed for each curvature for all interchanges. Based on the set of criteria defined by the research, the research has concluded to a re -design of some parts of Na`ur interchange in accordance with the codes applicable in road engineering. © International Research Publication House.
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References (30)

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1 roess, Roger p., Prassas, Elena s.
(2004) *Traffic Engineering*. Cited 807 times.
william r. mcshane, third edition. Pearson Education, international. ISBN 0-13-191877-X

2 Garber, Nicholas J., Hoel, Lester A.
(2009) *Traffic and Highway Engineering*. Cited 377 times.
Fourth Edition. University of Virginia. Printer: Thomson West