



## Night time construction and its effect on flyover project duration and cost

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*Abstract— High volume traffic on many city roads make it difficult to perform any construction activity during peak hours of any construction work which is carried on the road. It introduces the issues to the traffic flow, issues for the worker, issues of the cost and productivity of the work. Therefore many activities of these types of works are scheduled during off peak hours generally during night time to minimize the problems. It also includes different types of issues occurs during night time construction of flyover project and the solutions on that issues. The selection of night time construction activities is based on the quality and productivity of the work. The night time construction work based on the explicit consideration of the following three main aspects is presented: (a) the travel time savings produced by night- time construction work, (b) the impact that nighttime work has on workers' human factors (e.g., sleep deprivation and disruption of family and social lives) and (c) the impact that pay differentials for night- time workers would have on project costs.*

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### I. INTRODUCTION

In a context of increasing congestion, daytime highway construction work already a major source of non-recurrent congestion is bound to produce significant traffic disruptions. This has prompted Departments of Transportation to increase the frequency of nighttime construction work to reduce the congestion impacts of highway projects. This trend has been clearly observed in the State of New Jersey where, according to the local construction industry representatives interviewed for this project, the frequency of nighttime work has increased in the last five years. The estimates produced by the research team, on the basis of these interviews, indicate that approximately 25% of the highway projects are completely conducted at night; while approximately 80% of the daytime highway projects have some sporadic nighttime work component. Assuming an average duration per highway project equal to 60 days, and that the amount of sporadic nighttime work is 5 days, the above figures translate

into 30% of the project- hours being conducted during the night.

There is an increasing demand for performing many transportation related construction and maintenance

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