

# Client Project Submission Form

Civil Engineering Design Course ENGI - 8700

Memorial University

Faculty of Engineering and Applied Science

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To be submitted to Instructor: Stephen Bruneau, sbruneau@enr.mun.ca, 737-2119

## CLIENT

<b>COMPANY</b>	Department of Transportation & Works	address	PO Box 8700 St. John's NL A1B 4J6		
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## Proposed Project Title

Improvements to Topsail Road Interchange at the Outer Ring Road for Traffic Flow Efficiency

## Description of Project

The Town of Paradise has had considerable growth over the last decade. This has resulted in an increased traffic flow on Topsail Road which intersects with the Outer Ring Road. The current design of this interchange is experiencing capacity issues due to the diamond configuration intersecting with traffic lights at the ramps. Alternatives to improve the interchange/intersection capacity must be considered to improve level of service for the current traffic volume and projected future traffic volume.

## Requirement of Student Group

Consider the current level of service of the intersections with the interchange. Look at alternatives to improve the interchange and traffic flow and the costs associated with the alternatives. Propose a solution or solutions in a phased in approach to improve the traffic flow to meet the demands of current traffic flow and for the next 20 year horizon considering growth and other proposed developments. A comprehensive report outlining the findings of this investigation and proposed recommendations should be delivered upon completion of the project.

## COMMENTS, CONDITIONS, RESTRICTIONS QUESTIONS

The student group should have some experience in highway design and be familiar with the Transportation Association of Canada Geometric Design Guide for Canadian Roads. The group will have to work with a project partner to use traffic software with a limited site licence.