

## Baxter Lake North Crossing - Highway 69

*LEA Consulting Ltd. carried out structural design, and prepared contract documents for two new bridge structures in Northern Ontario, Canada.*

The work was part of the Highway 69 widening project. Steel plate girders were chosen to carry the concrete decks over an environmentally sensitive fish spawning area at Baxter Lake. The Southbound structure has three spans of 36-57-36 metres.

The Northbound structure has two equal spans of 43.5 metres. Girders are “splined” to suit the horizontal curvature of the highway. Substructure units are reinforced concrete, founded on steel piles or directly onto bedrock.



*South bound lane structural steel erection completed.*



*SBL structural steel erection completed and NBL pier segments in place with erection of north span girders in progress.*

### PROJECT SUMMARY

Client:  
**Ministry of Transportation,  
Ontario**

Location:  
**Near Honey Harbour, Ontario,  
Canada**

Services Provided:  
**Structural Engineering**

Cost:  
**\$ 4 Million**