

PROJECT PROFILE



January 18, 2021

AlL's value engineering proposal moves culvert replacement project off concrete and saves \$150,000

Tender calls are becoming more receptive to value engineered alternatives

VALUE ENGINEERING CASE STUDY

The Township of Dawson in Northwestern Ontario had originally specified a precast concrete box culvert for this replacement project. Their tender did not include a value engineering (VE) policy or option, but we called them and asked if they would be open to looking at a value engineered alternative in steel. Although their official answer was "no changes would be considered prior to tendering," we felt the conversation had left the door open to pursue a VE option with them.

Project at a glance:

Name: Colonization Road Culvert Replacement Location/ Owner: Township of Dawson, Ontario

Consultant: TBT Engineering

Contractor: The Sharp Group

Sector: Value Engineering, Transportation

Application: Culvert Replacement

Products: Bolt-A-Plate Horizontal Ellipse with Best-Kote

Dimensions: 4.826 x 3.429m x 26m long **Installation Time:** Two weeks



PROJECT PROFILE





Value engineering saves almost 25% on overall project

We quickly came back to them with a value-engineered proposal on how our Bolt-A-Plate Horizontal Ellipse solution could save them about \$150,000 on the \$650,000 they had budgeted for the concrete box solution — even with the optional Best•Kote Polymer Coating.

The Township chose our value engineered proposal

About \$75,000-\$100,000 of the savings came from not needing a crane on-site. There was about \$35,000 savings on the structure cost itself, and the rest of the savings came from a slightly smaller excavation zone and the actual labour/installation time needed.

We were very pleased to be able to give the owner an infrastructure project that came in on time, and well under their original budget.

About value engineering

Value engineering is a systematic method of improving the value of products and services by examining the ratio of function to cost. In short, less expensive materials and services or better functions are utilized in projects without sacrificing safety or performance.

See all Project Profiles on ail.ca

Head Office:

32 York Street Sackville, New Brunswick Canada E4L 4R4 1–877–245–7473



ail.ca