

**The Corporation of the Township of Ignace
Emergency Meeting of Council
Monday, September 1, 2022 @ 4:30 p.m.
OPEN/ELECTRONIC MEETING**

Public Notice that Council Meetings have now resumed open to the Public and available through the following Zoom link:

<https://us06web.zoom.us/j/81806157961?pwd=a1RzQ3NtaXJYSzZ0JnQXNRUT09>

Meeting ID: 818 0615 7961

Passcode: 846420

Acknowledgement of the Lands

1. Call to Order

Mayor Lucas called the Emergency Meeting of Council to order this 1st day of September 2022, at ____ p.m.

2. Approval of Agenda

Motion: # **2022.09.01.190**

Moved by: _____ Seconded by: _____

THAT, Council for the Corporation of the Township of Ignace does hereby approve the Agenda for the Emergency meeting of Council this 1st day of September 2022, as presented.

Carried

3. Declarations of Pecuniary Interest

The Chair calls for any declaration of pecuniary interest, and the general nature thereof under the Municipal Conflict of Interest Act with respect to the agenda for this meeting.

4. Delegations/Deputations/Presentation

5. Items to be Discussed

5.1 JML Engineering Proposal - Pine Street Twin Culverts

6. Questions from Public

7. By-Laws

8. Notice of Motions

9. Confirmatory By-Law

Motion: #2022.09.01.192

Moved by: _____ Seconded by: _____

THAT, By-Law #55.2022, Being A By-Law to Confirm the Proceedings of The Council of The Corporation of The Township of Ignace Emergency Meeting dated September 1st, 2022, be read a First, Second, and Third Time, and Passed.

Carried

10. Adjournment

Motion: # 2022.09.01.193

Moved by: _____ Seconded by: _____

THAT, the Emergency Meeting of Council this 1st day of September 2022, be adjourned at _____

Carried

August 31, 2022
Ref. No. JML52782

Township of Ignace
34 Main Street
Ignace, ON P0T 1T0

Attention: Lynda Colby,
Clerk

Reference: **Consulting Engineering Proposal**
Options Analysis Report
Replacement Pine Street Twin Culverts at Agimak River

Dear Lynda:

JML Engineering is pleased to submit this proposal to provide consulting engineering services for completing an Options Analysis report for the replacement of the Pine Street Twin Culverts at Agimak River.

JML52728: Options Analysis Replacement Pine Street Twin Culverts

JML Engineering is pleased to submit this proposal to provide consulting engineering services for completing an Options Analysis report for the replacement of the Pine Street twin culverts at the Agimak River in the Town of Ignace.

During our recent OSIM culvert inspections the week of August 8, 2022, our field crew observed substantial structural deficiencies inside the two barrels at the Pine Street culverts along the waterline. Extensive corrosion, large holes, and significant linear tears were observed. JML Engineering fast-tracked the preparation and submission of a structural evaluation report. The report, titled "Significant Structural Deficiencies Pine Street Twin CSP Culverts at Agimak River" dated August 11, 2022, summarized the observed deficiencies and made recommendations for a temporary road closure to vehicular traffic.

In anticipation of follow-up work to move forward towards a replacement solution, since JML Engineering's field crew were still on site, we proposed to the Township completing additional bathymetry work upstream of the Pine Street culverts, along with a comprehensive topographic survey at the Pine Street crossing. This work was discussed and approved by the Township.

On August 24, 2022, John M. Lorenowich, P.Eng., and Bill Warren attended a public open house in Ignace to discuss the structural deficiencies and recommendations for road closure at the Pine Street culvert site. After the meeting, we were requested to submit a proposal to the Township to advance this exercise by completing an Options Analysis report.

Since the field work has already been completed, we are capable of advancing the report with most information in hand.

The purpose of this exercise will be to consider culvert replacement options at this crossing to pass the 50-Year Flood with adequate freeboard while minimizing backwater effects under the Regional Flood.

Moving forward, our proposed methodology for this project is as follows:

- Complete initial teleconference call with the Township of Ignace to discuss and confirm our scope of work and schedule of deliverables.
- Complete a hydraulic analysis of the site to determine the required throat opening for a replacement structure.
- Prepare an Options Analysis report that will include:
 - A brief description of the site.
 - Any significant deficiencies observed at the site.
 - A discussion of any geotechnical information or records near the site, if available.
 - A discussion on the horizontal and vertical alignment at the site.
 - A discussion of a preferred road cross-section at the site, including sketch.
 - The results of the hydraulic analysis.
 - A review of a minimum of three culvert replacement options with shallow foundations, and an option involving steel sheet pile foundations.
 - Estimated construction costs for each replacement option.
 - Pros and cons of each replacement option.
 - Conclusions and recommendations for a preferred replacement option.
 - Approval requirements.
 - Executive summary.
 - Selective site photographs.
 - A site plan and elevation view drawing illustrating the preferred replacement concept.
- Submit 'Draft Report' for Owner review and comments.
- Discuss with Owner via teleconference call the Draft Report.
- Amend report and submit three (3) hard copies of a Final Options Analysis Report, along with one (1) copy in digital PDF format.

We estimate we can complete a Draft Options Analysis Report within 3-4 weeks of award of consulting assignment. We can complete a final report after receiving comments from the Township.

Once this exercise is complete, the Township will have a document that will identify the preferred replacement structure c/w an overall project budget to design and construct the new solution.

Consulting Engineering Fees

Our lump sum fee for the work completed to date on the Pine River Culverts, and to complete the Options Analysis Report for the replacement of the Pine Street twin culverts at Agimak River as noted above is as follows:

Work completed to date (including bathymetry, topographic survey, structural assessment report, and public Open House)	\$ 8,400.00
Options Analysis Report, including hydraulic analysis	<u>\$ 12,600.00</u>
Total Lump Sum Fee	<u>\$ 21,000.00 + HST</u>

All disbursements are included with this estimate.

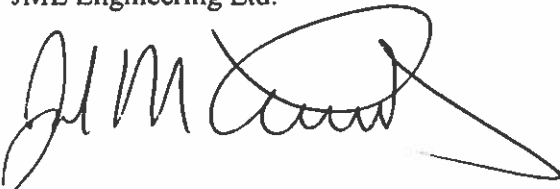
The Options Analysis report will exclude a geotechnical investigation. In our opinion, this task can be considered later on in the conceptual design stage to validate the assumptions made in the report. A preliminary estimate for a geotechnical investigation is approximately \$20,000 - \$25,000.

Closing

We thank you for this opportunity, and we look forward to working with the Township of Ignace on the early stages of this interesting culvert replacement project. Please contact the undersigned if you have any questions regarding this proposal.

Best regards,

JML Engineering Ltd.



John M. Lorenowich, P.Eng.
President

:jml