

REQUEST FOR PROPOSAL

ENGINEERING DESIGN SERVICES
FOR THE
RECONSTRUCTION OF CROW LAKE ROAD
IN THE
HAMLET OF CROW LAKE

RFP No. PW-2017-08

Issue Date: May 12, 2017

Please submit complete proposal, in a sealed envelope quoting above proposal number and closing date; and forward to:

Public Works Manager
The Corporation of the Township of Central Frontenac
P.O. Box 89
1084 Elizabeth St.
Sharbot Lake, Ontario
K0H 2P0

Closing Date: 1:00:00 pm local time May 25, 2017

Proposals must be received before the above mentioned time and date, and in accordance with the attached RFP Forms, Instructions to Vendors, and Standard Terms and Conditions.

Contact:

Brad Thake
Public Works Manager
Phone (613) 279-2935 ext 223
Fax (613) 279-2422
bthake@centralfrontenac.com

TABLE OF CONTENTS

SECTION A – THE PROJECT AND PROPOSALS

1. Introduction.....	Page 3
2. Term of the Project	Page 3
3. RFP Schedule.....	Page 3
4. Project Authority and Involvement.....	Page 3
5. Project Stakeholders.....	Page 3
6. Inquiries.....	Page 4
7. Proposal Content.....	Page 4
8. Evaluation of Proposals.....	Page 4
9. Submission of Proposals	Page 5

SECTION B – PROJECT REQUIREMENTS

1. Introduction.....	Page 5
2. Project Costs	Page 6
3. Background of the Project.....	Page 6
4. Available Township Resources	Page 6
5. Objectives	Page 6
6. Assumptions	Page 6
7. Resources Requirements.....	Page 7
8. Milestones and Results	Page 7
9. Interim and Final Reporting.....	Page 7
10. Formal Contract	Page 7

SECTION C – GENERAL TERMS AND CONDITIONS

General terms and conditions.....	Page 7-8
-----------------------------------	----------

SECTION D – FORM OF IRREVOCABLE OFFER..... Page 9

SECTION E – SCOPE OF WORK..... Page 10-11

ATTACHMENTS:

- Aerial Photo of the Hamlet of Crow Lake
- Traffic Count

A. THE PROJECT AND PROPOSALS

1.0 INTRODUCTION

The Corporation of the Township of Central Frontenac, hereinafter referred to as the "Township", is requesting proposals from qualified consultants for engineering services to recommend and provide design details for the purposes of tendering the reconstruction of approximately 1,600 metres of Crow Lake Road in the Hamlet of Crow Lake, that will start at the RR crossing east of the hamlet through the hamlet to Wilson Rd. on the west side of the hamlet. A second component to this project is to make a recommendation on whether or not traffic calming measures can be implemented for a cottage rental business within the hamlet. The design cost for the traffic calming measures, if recommended, shall be shown separately.

The requirements for responses to this Request for Proposal (RFP) are as described in this document. The Township reserves the right to not accept any proposal and to reissue this RFP at the sole discretion of the Township.

2.0 TERM OF THE PROJECT

The term of any contract arising out of this RFP will commence upon the signing of a purchase order by the owner. The design and construction estimate, for the reconstruction of Crow Lake Road, shall be completed by August 31, 2017. The tender documents for Crow Lake Road in the Hamlet of Crow Lake shall be completed October 31, 2017.

The proposal shall include a detailed work plan outlining the consultant's work schedule and expected completion date, which will be considered in the evaluation of the submissions.

3.0 RFP SCHEDULE

The RFP process will be governed according to the following schedule. Although every attempt will be made to meet all dates, the Township reserves the right to modify any or all dates at its sole discretion.

Release of RFP	Wednesday May 12, 2017
Deadline for Submitting Questions:	3:00 pm Friday May 19, 2017
Deadline for Responding to Questions:	3:00 pm Tuesday May 23, 2017
RFP Closes:	3:00:00 pm Thursday May 25, 2017
Final Selection	June 14, 2017

4.0 PROJECT AUTHORITY AND INVOLVEMENT

The Project Authority will be the Manager of Public Works for the Township of Central Frontenac or his designate(s) on behalf of the Township.

The Rideau Valley Conservation Authority will have an involvement with the approvals for the design of the projects.

The award of this project may be subject to council approval.

5.0 PROJECT STAKEHOLDERS

- The Corporation of the Township of Central Frontenac
- Rideau Valley Conservation Authority
- Canadian Pacific Railroad

6.0 INQUIRIES

Any clarification of this document or request for additional information must be received as per the schedule in Section A. 3.0. All inquiries are to be directed in writing to:

Brad Thake
Public Works Manager
Fax: (613) 279-2422
Email: brthake@centralfrontenac.com

And copied to:

Heather Robinson
Administrative Assistant
Fax: (613) 279-2422
Email: hrobinson@centralfrontenac.com

7.0 PROPOSAL CONTENT

Each proposal submitted must include a demonstrated understanding of the objectives, scope and particulars of the services required as well as a clear statement as to the actual total price. Provide the following:

1. Irrevocable Offer
2. Fee Proposal: A table that shall show the hours of each member of the design team, their tasks and rates reflecting the total all inclusive upset limit price in Canadian dollars to include all of the work as defined in the Scope of Work as well as work that is recommended by the proponent that was not captured in the Scope of Work.
3. Team Members and Qualifications: Submissions shall include the names of the personnel selected for this project, a brief description of their qualifications as it relates to this project and curriculum vitae for each of the team members. (Note; the name of the onsite construction inspector is not required at this time but shall be approved by the municipality before construction starts.)
4. Company Profile
5. At least three examples of similar work completed by your company and references associate with those project.
6. Expected disbursement costs.
7. Resources required from the Township.
8. Proposed Work plan and methodology.
9. The Tenderer shall ensure that all addenda issued during the tendering period are attached as part of the submitted bid. **Failure to do so will result in disqualification of the bid.**

8.0 EVALUATION OF PROPOSALS

The following scoring system will be used to evaluate each accepted proposal.

	Weight
1. Cost Assessment	
Total all-inclusive upset cost	
Hourly rates for pertinent staff & subcontractors	25%
2. Company Profile	
References Ability	30%
Experience Available personnel	
Familiarity with this type of project	
Experience with the Township	
3. Submission of Requested Proposal Content	
Provide comprehensive submissions as per Section A. 7.0	10%
4. Proposed Work Plan.	35%
1- Crow Lake Road Reconstruction	
2- Traffic Calming Measures.	

9.0 SUBMISSION OF PROPOSALS

Proposal responses, irrevocable offer (Section D), and required content as per Section A. 7.0 **must** be submitted in a complete proposal package. Company brochures and pictures of relevant projects may be included in the proposal package. Failure to comply may result in rejection of the proposal.

Proposal in a sealed envelope clearly identified as to contents, **“RFP No. PW-2017-08”** must be received **no later than 1:00:00 pm local time Thursday May 25, 2017** and addressed to:

Public Works Manager
 The Corporation of the Township of Central Frontenac
 P.O. Box 89
 1084 Elizabeth St.
 Sharbot Lake, Ontario
 K0H 2P0

*Proposals received after the above due date and time will not be considered.

B. PROJECT REQUIREMENTS

1.0 INTRODUCTION

The Corporation of the Township of Central Frontenac Public Works Department is requesting proposals from qualified consultants for engineering services to provide the recommended design for the:

- Reconstruction of Crow Lake Road in the Hamlet of Crow Lake including the replacement of culverts, the road base, the upgrade to asphalt surface and platform correction rebuilt to specific elevations, as well as the recommendations and design of traffic calming measures to improve pedestrian safety while crossing the road at a local cottage rental business at 2020 Crow Lake Road.

The engineering services sought in this RFP are intended to address any and all issues regarding: culvert replacement, soils stability, road widening, alignment and center line profile adjustments, winter maintenance practices, road base drainage, property line review, and traffic calming. These services shall include topographic surveying, preparation of plans, drawings, tender packages and the tender administration, with hourly rates for project inspection and administration.

2.0 PROJECT COSTS

Provide a 'Fee Schedule' of Pricing that shows the total all-inclusive upset cost in Canadian dollars for all labour, material, and equipment costs required to complete the project.

All permit cost associated with the applications sent to the Rideau Valley Conservation Authority will be paid by the Municipality and shall not be included in the submission.

The cost to complete the services as set out in the proposal shall be the maximum amount that the Township shall be obliged to pay the consultant unless otherwise agreed to in writing between the parties.

3.0 BACKGROUND OF THE PROJECT

A number of issues have been identified as needing to be addressed within the Hamlet of Crow Lake. The existing road does not allow all surface water to drain away, the road platform has settled unevenly over the years, the wearing surface has cracking and potholes which are contributing to the deterioration. Guiderails need to be added where possible and rock needs to be removed to accommodate the widening at proposed guiderail locations and sightlines if applicable.

The traffic calming measures on Crow Lake Road have been requested by the business owner of the rental cottages at 2020 Crow Lake Road, because the office and playground for children are on one side of the road while the cottages are on the opposite of the road.

It has been accepted by previous councils that all Hamlets be converted to asphalt surfaced roads when road reconstruction work is scheduled.

4.0 AVAILABLE TOWNSHIP RESOURCES

- Attached aerial photo
- Traffic Count

5.0 OBJECTIVES

The Township's intent is to award a contract to purchase the professional engineering services required to complete the items discussed in this RFP.

The Township intends to have a public meeting, led by the engineering firm, once the design is completed so that the council can have comments from the public on both sides of the issues that may arise from the design.

The Township intends to have the engineering completed, project cost estimates and contracts ready for the 2018 capital budget.

6.0 ASSUMPTIONS

The tax (HST) shall be shown separately.

The consultant shall be licensed to operate in the Province of Ontario, Canada.

In addition to the Commercial General Liability and Automobile coverage specified in Section C, proof of Professional Liability insurance is also required.

The successful consultant will be responsible for obtaining and implementing the necessary utility clearances, all applicable permits (construction, DFO, MNRF, MOECC etc.) and traffic control requirements for any fieldwork performed by their own forces or sub-contractors within the road allowance. (as per OTM Book 7)

7.0 RESOURCE REQUIREMENTS

Submitters must detail as part of their proposal any resources they will require outside of those defined in Section B. 4.0. Also included shall be any third party consultants or sub-contractors the consultant requires to fulfill the mandate of this RFP.

8.0 MILESTONES AND RESULTS

Contract Start Date: The successful consultant may start once their WSIB Clearance Certificate and the required Insurance Forms have been received and the Purchase Order is issued. The Consultant will meet with the municipal staff for a start up meeting, at the preliminary design stage, hold and attend a public meeting prior to the final design and to present the final design at council.

9.0 INTERIM AND FINAL REPORTING

The Township reserves the right to determine the exact meeting times and dates for the start-up, interim and final reporting during the term of the Contract.

10.0 FORMAL CONTRACT

A Purchase Order will be issued to the successful proponent.

C. GENERAL TERMS AND CONDITIONS

- 1** No payment will be made by the Township for the preparation and submission of the proposal.
- 2** Submissions constitute offers which the Township may or may not accept at its sole discretion. The Corporation of the Township of Central Frontenac further reserves the right to accept or reject any or all proposals or parts of proposals or to accept any proposal considered in its best interest, and to request re-proposals on the required materials and/or services. The Township also reserves the right to waive irregularities and technicalities and to do so in its sole discretion.
- 3** The consultant, at their own expense, may be required to make a presentation to the municipality as part of the consultant selection process.
- 4** The consultant shall enter into a contract with the municipality by way of a Purchase Order in accordance with the Township Purchasing Policy.

- 5** Any selected proponent shall be required to take out sufficient Commercial General Liability Insurance, structured on a “per occurrence” basis, and motor vehicle liability, in the amount of no less than two million dollars (\$5,000,000.00), to cover all risks. WSIB coverage shall be provided as required by or available under law. Additional insurance may also be required depending on the nature of bids submitted. Policies shall be kept in full force during the complete period with proof of which provided to the Township on demand. The Township shall be named as an additional Insured on the policy and any successful proponent shall provide evidence of all insurance coverage’s required. Any successful proponent shall provide a WSIB clearance certificate before the Township shall enter into of a contract in relation to this Request for Proposal. The successful proponent shall provide evidences of their Errors and Omissions insurance.
- 6** This RFP, each submission and the Project itself are each subject to the provisions of all applicable law, including:
- The *Municipal Freedom of Information and Privacy Act*, RSO 1990, c. M54,
 - *Occupational health and Safety Act*, R.S.O. 1990, c.O.1, Each proponent warrants that they have the experience training and equipment to ensure all work performed under the contract is done safely and in accordance with all applicable health and safety legislation and that they have control over the workplace and is fully responsible for the health and safety of all employees and others present on the site. Each proponent also acknowledges that the Township is relying on this warranty in its decision to award the contract to the proponent
 - *Ontarians with Disabilities Act, 2001*, S.O. 2001, c.32, section 13 of which statute states:

In deciding to purchase goods or services through the procurement process for the use of itself, its employees or the public, the council of every municipality shall have regard to the accessibility for persons with disabilities to the goods or services.

This RFP, each submission and the Project itself are also each subject to the provisions of the Purchasing Bylaw of the Corporation of the Township of Central Frontenac as amended.

- 7** Unless otherwise agreed, should the Township enter into a contract relating to the Project, the other contracting party shall agree to hold the Corporation of the Township of Central Frontenac harmless from any and all liability, claim, loss, expense, action or suit arising from the project.
- 8** In cases of dispute as to whether or not deliverables meet the requirements of the Corporation of the Township of Central Frontenac, the decision of such agent as the Corporation of the Township of Central Frontenac may appoint will be final and binding.
- 9** Unless otherwise agreed, should the Corporation of the Township of Central Frontenac enter into a contract relating to the Project, the other contracting party shall not, without the written consent of the Corporation of the Township of Central Frontenac, assign or subcontract any aspect of the Project or the deliverables.

D. FORM OF IRREVOCABLE OFFER

I hereby offer to provide the requirements under RFP No. **PW-2017-08** the Corporation of the Township of Central Frontenac according to the terms set out in this proposal as well as in the RFP including the requirement for and acceptance by a contract acceptable to the Township. I also agree that this irrevocable offer shall be open to acceptance by the Township for a period of sixty (60) days from the closing date for the receipt of proposals.

WITNESS _____

OR

(Affix Company Seal if applicable)

SIGNED _____

NAME _____

TITLE _____

VENDOR NAME _____

ADDRESS _____

CITY/PROV. _____

POSTAL CODE _____

TELEPHONE _____

FAX NO. _____

E. SCOPE OF WORK (for reconstruction of the Hamlet of Crow Lake)

1.0 PROJECT REVIEW

- 1.1. Site review.
- 1.2. Meet with client to initiate the project.

2.0 SOILS TEST

- 2.1. Consultant shall arrange for a soils report on the Crow Lake site.
- 2.2. Provide an estimate in the proposal with a recommended work program for soils testing.
- 2.3. The Township will pay for the reports and associated work directly to the soils testing company.

3.0 REGULATORY REQUIREMENTS

- 3.1. Please provide recommendations on Class EA and archaeological review requirements if any, and approximate costing but do not add to project costs.

4.0 SURVEYING

- 4.1. Consultant shall establish all site plan and topographical information.
- 4.2. Consultant shall identify the property lines bordering the construction area to a level of accuracy sufficient for design and construction.

5.0 ENVIRONMENTAL PERMITTING (DFO)

- 5.1. The consultant shall act as a liaison between the Township and the Rideau Valley Conservation Authority to obtain all necessary permits for all work associated with the wetland.
- 5.2. The consultant shall, on behalf of the Township, complete and submit the Conservation Authority Application Form for Fill, Construction & Alterations to Waterway if required.
- 5.3. The Township shall pay the application fee directly to the Conservation Authority so the costs will not be included as part of this item.

6.0 CROW LAKE ROAD RE-DESIGN

- 6.1. The successful consultant shall review the existing geotechnical conditions, and current road construction. The consultant shall review alternatives and make recommended options to the current in-field design.
- 6.2. The final design shall include elevations for the finished road to be built to, because some of the road profile may have to be lowered or raised and some will have to stay exactly as it is because of the driveway tie-ins and the influence of other existing infrastructure.
- 6.3. A review of the present street lighting will need to be considered. The contract shall allow for the changeover from Halogen heads to LED lighting and the contractor shall provide Hydro One with the required information to change the billing from Halogen lighting to LED lighting.
- 6.4. Recommended regulatory and information signage, as well as pavement markings will form part of the design.
- 6.5. Traffic calming at 2020 Crow Lake Road, to accommodate pedestrians crossing the road, shall be reviewed and recommendations made on whether or not speed humps or other systems are viable. The design cost shall be included but shown separately, in the overall proposal.
- 6.6. Submissions shall include the cost of developing accurate estimates of expected construction costs.
- 6.7. The consultant shall allow for a draft design review and final design review meeting with the client at Sharbot Lake Municipal Offices.

- 6.8. The consultant shall allow for one public meeting and a presentation to council.
- 6.9. The production of finished design drawings and specifications and all review documents shall be considered part of this item.
- 6.10. The consultant shall provide the field surveying required to obtain enough information to adequately identify the existing infrastructure for design purposes. The municipality does not require a geodetic reference. The only requirement is what the conservation authority imposes.

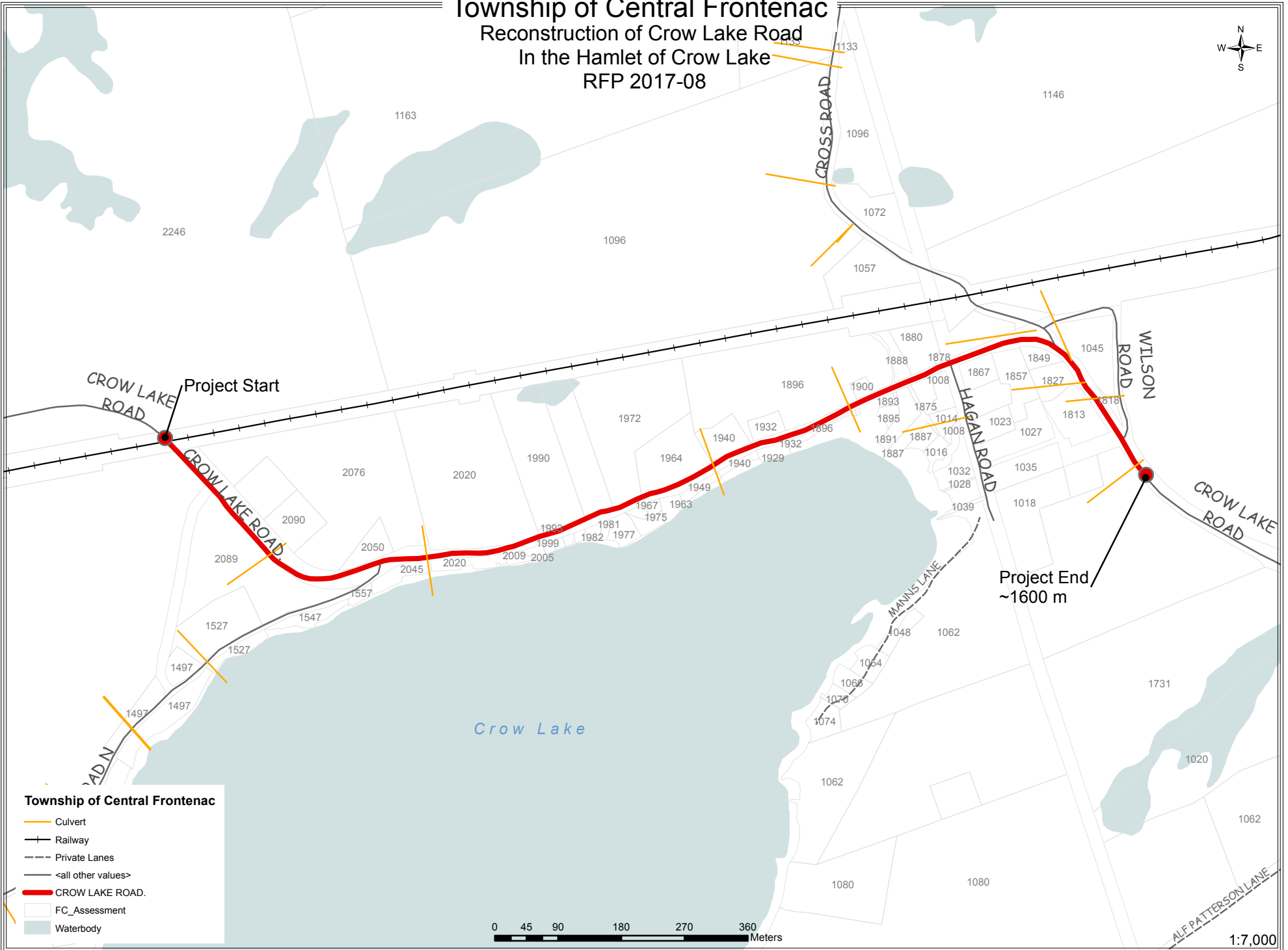
7.0 PROJECT ADMINISTRATION

- 7.1. The scope of this work is intended for the consultant to provide tenders, plans, specifications, and contracts along with the administration of the tendering process. The administration shall also include the review of and response to inquiries from the staff, the council, the public and any government agencies.
- 7.2. Consultant shall apply for and prepare all documentation required for approvals to complete the proposed work.
- 7.3. The consultant shall provide an estimated cost for each set of final tender documents within the RFP submission. This item shall be paid as a disbursement cost.
- 7.4. The Township will pay for the costs of tender advertising.
- 7.5. The cost of printing plans, specifications, and tender documents for tendering purposes will be an extra to this contract but all documents produced for the purposes of approvals and client review shall be paid as part of the lump sum price of the appropriate related item.
- 7.6. Project administration shall include the distribution of the tender packages and receiving them, as well as providing an assessment of the bids and a written recommendation for the acceptance of the best bid.
- 7.7. The consultant shall allow for the cost to attend the council meeting when the Council Report is brought forward to award the winning construction bid.
- 7.8. The price bid for this item will be paid on a lump sum bases.

8.0 CONTRACT ADMINISTRATION

- 8.1. The consultant shall provide the office administration and professional support and oversight during the construction process.
- 8.2. The Township will receive and process progress payments once the consultant has reviewed them and recommended payment.
- 8.3. The consultant shall provide hourly rates and disbursement costs for when additional visits to the site are requested by the Township.
- 8.4. The consultant shall provide full time site inspection. The cost of the site inspection shall be identified separately in the proposal and shall be paid for on an hourly basis. Any soils testing or material testing, required outside of the construction contract, will be paid for by the Township and can be invoiced directly to the Township.

Township of Central Frontenac Reconstruction of Crow Lake Road In the Hamlet of Crow Lake RFP 2017-08



MetroCount Traffic Executive Daily Classes (Estimated Mass)

DailyClassMass-57 -- English (ENC)

Datasets:

Site: [Crow Lake Village] Oakes Cottages
Direction: 6 - West bound A>B, East bound B>A. **Lane:** 2
Survey Duration: 9:44 August 17, 2016 => 12:08 August 29, 2016
Zone:
File: Crow Lake Village29Aug2016.EC2 (Plus)
Identifier: EF39VYRG MC56-L5 [MC55] (c)Microcom 19Oct04
Algorithm: Factory default (v3.21 - 15315)
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 9:45 August 17, 2016 => 12:08 August 29, 2016
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
Speed range: 10 - 160 km/h.
Direction: North, East, South, West (bound)
Separation: All - (Headway)
Name: Default Profile
Scheme: Vehicle classification (Scheme Axle)
Units: Metric (meter, kilometer, m/s, km/h, kg, tonne)
In profile: Vehicles = 2905 / 2910 (99.83%)

Daily Classes (Estimated Mass)

DailyClassMass-57

Site: Crow Lake Village.2.0WE
Description: Oakes Cottages
Filter time: 9:45 August 17, 2016 => 12:08 August 29, 2016
Scheme: Vehicle classification (Scheme Axle)
Filter: Cls(1 2 3 4 5 6 7 8 9 10 11) Dir(NESW) Sp(10,160) Headway(>0)

August 15, 2016

	1	2	3	4	5	6	7	8	9	10	11	Total
Mon*	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Tue*	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Wed*	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Thu	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Fri	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Sat	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Sun	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												

Average daily volume

Entire week

	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												

Weekdays

	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												

Weekend

	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												

* - Incomplete

Daily Classes (Estimated Mass)

DailyClassMass-57

Site: Crow Lake Village.2.0WE
Description: Oakes Cottages
Filter time: 9:45 August 17, 2016 => 12:08 August 29, 2016
Scheme: Vehicle classification (Scheme Axle)
Filter: Cls(1 2 3 4 5 6 7 8 9 10 11) Dir(NESW) Sp(10,160) Headway(>0)

August 22, 2016

	1	2	3	4	5	6	7	8	9	10	11	Total
Mon	0	184	1	1	0	0	0	0	0	0	0	186
(%)	0.0	98.9	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Tue	0	378	9	9	0	0	0	0	0	0	0	396
(%)	0.0	95.5	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Wed	0	369	7	4	0	0	0	0	0	0	0	380
(%)	0.0	97.1	1.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Thu	0	380	7	4	0	0	0	0	0	0	0	391
(%)	0.0	97.2	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Fri	0	423	12	8	1	1	0	0	0	0	0	445
(%)	0.0	95.1	2.7	1.8	0.2	0.2	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Sat	0	533	12	13	0	0	0	0	0	0	0	558
(%)	0.0	95.5	2.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Sun	0	435	14	2	0	0	0	0	0	0	0	451
(%)	0.0	96.5	3.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												

Average daily volume

Entire week

	0	386	8	5	0	0	0	0	0	0	0	400
(%)	0.0	96.5	2.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												

Weekdays

	0	346	6	4	0	0	0	0	0	0	0	359
(%)	0.0	96.4	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												

Weekend

	0	484	13	7	0	0	0	0	0	0	0	504
(%)	0.0	96.0	2.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												

* - Incomplete

Daily Classes (Estimated Mass)

DailyClassMass-57

Site: Crow Lake Village.2.0WE
Description: Oakes Cottages
Filter time: 9:45 August 17, 2016 => 12:08 August 29, 2016
Scheme: Vehicle classification (Scheme Axle)
Filter: Cls(1 2 3 4 5 6 7 8 9 10 11) Dir(NESW) Sp(10,160) Headway(>0)

August 29, 2016

	1	2	3	4	5	6	7	8	9	10	11	Total
Mon*	0	94	0	3	1	0	0	0	0	0	0	98
(%)	0.0	95.9	0.0	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Tue*	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Wed*	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Thu*	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Fri*	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Sat*	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												
Sun*	0	0	0	0	0	0	0	0	0	0	0	0
(%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ESA=0.0, Freight=0.0, Gross mass=0.0kg												

Average daily volume

Entire week No complete days.

Weekdays No complete days.

Weekend No complete days.

* - Incomplete



» [Visit www.metrocount.com](http://www.metrocount.com) » [Contact MetroCount](#)

ARX

ARX is a modification of AustRoads94. It removes class 12, moves all other classes up by one, and inserts a cycle class as class 1.

- ▣ **Units:** Metric (m)
- ▣ **Car class:** 2
- ▣ **Unclassifiable vehicle class:** 13

Download PDF...

52 KB
3 pages

Axles	Groups	Description	Class	Parameters	Dominant Vehicle	Aggregate
2	1 or 2	Very Short - Bicycle or Motorcycle	MC 1	d(1)<1.7m & axles=2		1 (Light)
2	1 or 2	Short - Sedan, Wagon, 4WD, Utility, Light Van	SV 2	d(1)>=1.7m, d(1)<=3.2m & axles=2		
3, 4 or 5	3	Short Towing - Trailer, Caravan, Boat, etc.	SVT 3	groups=3, d(1)>=2.1m, d(1)<=3.2m, d(2)>=2.1m & axles=3,4,5		
2	2	Two axle truck or Bus	TB2 4	d(1)>3.2m & axles=2		2 (Medium)
3	2	Three axle truck or Bus	TB3 5	axles=3 & groups=2		
>3	2	Four axle truck	T4 6	axles>3 & groups=2		
3	3	Three axle articulated vehicle or Rigid vehicle and trailer	ART3 7	d(1)>3.2m, axles=3 & groups=3		3 (Heavy)
4	>2	Four axle articulated vehicle or Rigid vehicle and trailer	ART4 8	d(2)<2.1m or d(1)<2.1m or d(1)>3.2m axles = 4 & groups>2		
5	>2	Five axle articulated vehicle or Rigid vehicle and trailer	ART5 9	d(2)<2.1m or d(1)<2.1m or d(1)>3.2m axles=5 & groups>2		
>=6	>2	Six (or more) axle articulated vehicle or Rigid vehicle and trailer	ART6 10	axles=6 & groups>2 or axles>6 & groups=3		
>6	4	B-Double or Heavy truck and trailer	BD 11	groups=4 & axles>6		
>6	>=5	Double or triple road train or Heavy truck and two (or more) trailers	DRT 12	groups>=5 & axles>6		

Version: 3.18

Last revised: August 2005

© 2011 MetroCount®