

374-2016 ADDENDUM 2

REQUEST FOR PROPOSAL FOR PROFESSIONAL CONSULTING SERVICES FOR THE SHOAL LAKE AQUEDUCT ASSET PRESERVATION PROGRAM

URGENT

PLEASE FORWARD THIS DOCUMENT TO WHOEVER IS IN POSSESSION OF THE REQUEST FOR PROPOSAL

ISSUED: October 28, 2016
BY: Jessica McCombe, P.Eng.
TELEPHONE NO. 204 - 986-8663

THIS ADDENDUM SHALL BE INCORPORATED INTO THE REQUEST FOR PROPOSAL AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS

Template Version: Ar20160708

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Request for Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 9 of Form A: Proposal may render your Proposal non-responsive.

PART B – BIDDING PROCEDURES

- Revise: B9.9 to read: The Fee Proposal shall include an allowance for Allowable Disbursements as defined in C1.1(b). The Allowable Disbursements shall include the costs of materials testing.
- Add B9.13 The Allowable Disbursements shall also include all costs for the City to directly pay the Contractors to complete the required work that is specified in D7.7.3(b)(i), D7.11.3(b)(iii) and D7.10.3(e)-Addendum 2.

PART D – SUPPLEMENTAL CONDITIONS

- Add: D6.8.1(d) When required, the City will be responsible for dewatering the SLA and providing confined entry support services such as: safety attendants at nearby manholes, access ladders, safety hoists, and gas monitors.
- Revise: D7.5.3(a) to read: Task 2a Complete a structural evaluation of the Mile 42.05 and Mile 83.02 stop logs to determine if they are structurally adequate based on **Standard CAN/CSA-S157-05/S157.1-05 (R2015) (Strength Design in Aluminum / Commentary on CSA S157-05, Strength Design in Aluminum)**.
- (i) Review background information related to the existing stop logs.
 - (ii) View / measure the existing stop logs at 552/598 Plinguet Street.
 - ◆ Provide one (1) weeks' notice so the City can arrange the delivery of the stop logs to 552/598 Plinguet.
 - (iii) **Calculate the capacity of the stop logs in terms of serviceability limit states to determine if the stop logs are structurally adequate.**
- Revise: D7.5.3(b) to read: Task 2b Complete a structural detailed design for new stop logs at Mile 42.05 and Mile 83.02 according to **Standard CAN/CSA-S157-05/S157.1-05 (R2015)**. (Note, this item may be deleted from the scope of work depending on the outcome of the structural evaluation results from item D7.5.3(a)). At a minimum, the design shall:
- (i) Follow **Standard CAN/CSA-S157-05/S157.1-05 (R2015)**.
 - (ii) Include an appropriate safety factor.
 - (iii) Be water tight - consider the use of inflatable seals.
 - (iv) Reduce weight as much as possible.

(v) Consider the ease of installation and removal.

Revise: D7.5.3(c) to read: Task 2c Complete a structural review of the Gore & Storrie design for the stop logs at Mile 17.05, Mile 64.14 and Mile 73.69 to determine if the design is still relevant, if it meets **Standard CAN/CSA-S157-05/S157.1-05 (R2015)** and has an appropriate safety factor.

Revise: D7.5.3(d) to read: Task 2d Complete a structural detailed design for new stop logs at Mile 17.05, Mile 64.14 and Mile 73.69 according to **Standard CAN/CSA-S157-05/S157.1-05 (R2015)**. Note, this item may be deleted from the scope of work depending on the outcome of the structural review results from item D7.5.3(c.) At a minimum, the design shall:

- (i) Follow **Standard CAN/CSA-S157-05/S157.1-05 (R2015)**.
- (ii) Include an appropriate safety factor.
- (iii) Be water tight - consider the use of inflatable seals.
- (iv) Reduce weight as much as possible.
- (v) Consider the ease of installation and removal.

Revise: D7.7.3(d) to read: Determine the SLA's thermal regime at the Lafarge Precast Concrete Plant Site based on assumed subsurface properties and engineering judgement.

Revise: D7.7.3(g) to read: If the load carrying capacity of the SLA pipe is exceeded by the allowable vehicle load capacity, develop and submit a **preliminary design** for an appropriate bridging structure over the SLA at this location. For proposal purposes assume that the load carrying capacity of the SLA pipe is being exceeded.

Add: D7.10.3(e) Arrange and oversee a Contractor to drill cores in the Mile 42.05 overflow structure and each of the seven (7) boathouses that are assumed to require rehabilitation as listed in the "SLA Boathouses Spreadsheet 2016 01 05", which is included in Task 7 and 8 under the "Boathouses" folder on the City's FTP site. For proposal purposes assume four (4) cores that are 76.2mm in diameter and 152.4mm in length are required per boathouse for visual analysis and strength testing. The City will pay the contractor directly for their service.

Revise: D7.11.3(c)(i) to read: Determine if the Aqueduct can accommodate the new boathouse superstructures. **Incorporate an overhead lifting beam in the new boathouse design. If the existing overhead lifting beam is salvageable, consider incorporating it into the new design.**

Revise: D7.11.3(d)(i) to read: Investigate various ventilation and insulation replacement options to prevent frost build up within the boathouses and provide a recommendation for the best option.

- ◆ Mechanical design should take into account the remote location and sporadic maintenance.
- ◆ **Mechanical design should consider mechanical ventilation and passive ventilation.**

Add: D7.12.3(b)(xii) The City will be responsible for completing a closed circuit television (CCTV) inspection on each underdrain outfall listed in D7.12.3(a) using the City's existing contract with Uni-Jet. The inspection is expected to be completed in the fall of 2017. The CCTV results will be provided to the Consultant.

Add: D7.12.3(b)(xiii) Review the results of the CCTV inspection on each underdrain outfall listed in D7.12.3(a) and use the results to assist with completing the condition assessment.

Revise: D7.16.4(j) to read: If the load carrying capacity of the SLA pipe is exceeded by the allowable vehicle load capacity, develop and submit a **preliminary design** for an appropriate bridging structure over the SLA at this location. For proposal purposes assume that the load carrying capacity of the SLA pipe is being exceeded.

Revise: D12.1 to read: The Consultant shall achieve critical stages of the Services for this Contract in accordance with the completion dates listed in the table below. The final completion date for the entire project shall be 3.5 years after award.

TASK NO.	TASK TITLE	SPEC. REF.	TASK COMPLETION DATE
<u>Priority 1 Tasks</u>			
TASK 1	Structural Assessment of the Aqueduct Opening at Mile 93.69	D7.4	8 months after award
TASK 2	Structural Design for Stop Logs Used in the Shoal Lake Aqueduct	D7.5	8 months after award
TASK 3	Review and Update of the SLA Emergency Repair Strategy	D7.6	1 year after award
TASK 4	Pipe Loading Assessment on Branch 1 Aqueduct at Lafarge Precast Concrete Plant Site	D7.7	8 months after award
TASK 5	Land Drainage Investigation of Drainage Ditch at Mile 35.38 Drainage Siphon	D7.8	8 months after award
TASK 6	Preparation of Drawings for SLA Crossings near Plessis Road	D7.9	8 months after award
<u>Priority 2 Tasks</u>			
TASK 7	Detailed Condition Assessment of Shoal Lake Aqueduct Boathouses and Associated Overflow Structures	D7.10	6 months after authorization from City's Project Manager
TASK 8	Preliminary Design of Boathouse Superstructures and Energy Dissipation Chamber / Outfall at Mile 64.14	D7.11	2 years and 10 months after authorization from City's Project Manager
TASK 9	Condition Assessment on SLA Underdrain Outfalls to Water Courses	D7.12	1 year after authorization from City's Project Manager
TASK 10	Preliminary Engineering for Splitting of the DBPS Suction Header	D7.13	1 year after authorization from City's Project Manager
<u>Priority 3 Tasks</u>			
TASK 11	Land Drainage Improvements at Mile 77.6 Railway Yard	D7.14	9 months after authorization from City's Project Manager
TASK 12	Topographic Surveys and Preparation of Drawings:	D7.15	1 year after authorization from City's Project Manager
TASK 13	SLA Preliminary Plan for the Crossing at Provincial Road No. 308	D7.16	8 months after authorization from City's Project Manager

PART E – SECURITY CLEARANCE

Revise: E1.1(a)(i)(iii) to read: if additional assistance is required to obtain the Criminal Record Search Certificate, the Bidder may contact the following BackCheck representative:

Linda Ferens;
email: linda.ferens@sterlingts.com
phone: (204) 990-0912;

Revise: E1.1(b)(iii)(ii) to read: email: linda.ferens@sterlingts.com