

CREUS Engineering Ltd

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Civil Engineers & Project Managers

Addenda #1

Project: Harvey Creek Weir Upgrade

File: 13160

Contract: Village of Lions Bay

Issued By: Steve Williamson

Date: July 13, 2017

ADDITIONAL INSTRUCTIONS:

1.0	See attached Pretender Minutes
2.0	No wheel wash required on this project – see Pretender Minutes 1.25
3.0	No EMP required on this project – see Pretender Minutes 1.26
4.0	6 weeks to substantial completion required once authorization granted to proceed with works in the creek
	End of Document

This addendum is in addition to, and forms part of the contract documents and is to be reflected in the tendered amounts. A copy of this Addendum shall be initialed by the Tenderer and submitted with the Tender Form.

Reviewed By: Kevin Healy

CREUS Engineering Ltd

Civil Engineers

Minutes of Meeting - Pretender

Project:	Harvey Creek Weir Upgrade	Project No:	13160
Client:	Village of Lions Bay	Meeting Date:	July 11/2017
Issued By:	Steve Williamson	Issue Date	July 13/2018
Attendees:	Garth Begley Euli Leichti Henry Boschman Ryan Morrison Kevin Healy, Steve Williamson	Village of Lions Bay Duro Construction C.A.P Ventures North Construction CREUS Engineering	

Distribute to all plus:

Village of Lions Bay
William Puranen

works@lionsbay.ca
wpuuranen@industria.ca

ITEM	DESCRIPTION	Action By
1.0	Environmental, Safety and General Items	
1.01	Ensure all sediment and erosion features are in place and operating prior to commencing works. Works are not detailed on plans, contractor to submit proposal and is responsible for providing adequate measures, ongoing maintenance and repair and working in a manner to meet regulatory requirements. See supplemental specifications. As per the contract, diversion of flows are included in this and environmental protection.	
1.02	Satori Environmental will be the environmental monitor for this project	
1.03	All technical correspondence to be to Creus, Contractor to not contact Village of Lions Bay (VOLB) directly or direct public to do same. Creus contact for technical matters is Steve Williamson phone 604 9879070 ext. 304 and swilliamson@creus.ca or if he is not available Kevin Healy @ 604-987-9070 ext. 302. All notices for inspection to go to inspector and PM via email	
1.04	Questions during tendering to Steve Williamson via email	
1.05	All permits and safety measures by contractor. The contractor is to follow all Village of Lions bay safety Protocol. Contractor to be prime contractor per Work Safe BC regulations. Notice of project to be submitted by contractor to Work Safe BC and copied to Creus. The Contractor is to arrange to meet the Village Protocol for accessing the site and will maintain the gates closed as required for site safety. The contractor will be required to provide radio communication to link into the Lions bay system if no spare radios are available at time of construction.	
1.06	Other works on going during this contract may include on going Operation of Water system, Access to water system, Public Road Use and Trail Use	
1.07	A portion of the water to be redirected into the intake pipe downstream of the works with 50mm line. The remainder of the diversion requires a plan submitted to the Engineer 5 working days prior to proposed install date.	
1.08	Contractor to design diversion to address surges in system and contractor to monitor weather to manage water flows	

ITEM	DESCRIPTION	Action By
1.09	Copy of Tender Drawings, tender form, supplementary general conditions and supplementary specifications provided on BC Bid. Other specification that form part of the tender documents listed in the tender. The contract documents include the drawings, utility drawings, specifications, supplementary specifications, general conditions and as listed in contract. It is the Contractors responsibility to ensure that all survey and subcontractor bidders reflect the most up to date drawings, specifications, site instructions and direction and that copies of the most current contract documents are forwarded to surveyors, testing agencies, subcontractors, superintendents and site staff and any other relevant parties	
1.10	All equipment working in or near to the creek must be bio-friendly. Contractor to provide a spill protection plan prior to commencing works	
1.11	Village to provide contractor with Key for access	
1.12	A copy of the Village of lions Bay "Temporary weather-related operational shutdown procedures attached to the contract. Contractor is expected to manage works and station equipment to minimize risk.	
1.13	Naizam Jaffer will be the prime contact for the Village of Lions Bay public works through Creus Eng.	
1.14	Staging area downhill of intake building. No hazardous materials such as fuels or chemicals to be stored uphill. The building has a grate over potable supply - need to ensure no contamination risk. The access road is four wheel drive.	
1.15	Contractor to use the Village of Lions Bay radio system for communication, especially in regards trucking and follow the Villages protocol	
1.16	Trucks to be mindful of members of the public using the access road for hiking, Contractor to places construction signs to warn hikers	
1.17	VOLB Harvey reservoir 400 000 gallons - Magnesia 100 000 gallons as indicated by VOLB. VOLB will manage water storage and coordinate with Contractor	
1.18	VOLB will issue general notice of works to residents and manage communications as necessary. Water conservation statements may be issued.	
1.19	Contractor to provide lock for gate. Lock to lock will be utilized for contractor access.	
1.20	VOLB to provide 2 way radio to contractor	
1.21	Contractor to maintain water into intake whenever possible and 50mm line at all times. It is recognized that water may need to be diverted completely around intake when works are ongoing.	
1.22	There is no cell service at the work site. Contractor is responsible for site safety as Prime and will implement emergency communication that meets Work Safe regulations	
1.23	Creek flow generally reduces to 350-400 gpm during August	
1.24	Rockfall and debris torrent hazard exists at all times in works area and entry road. Contractor to maintain vigilance in any change in geological conditions on embankments and roadways and notify Engineer immediately	
1.25	A wheel wash is not required on this project	
1.26	An EMP is not required on this project	
2.0	Civil Works	
2.01	All costs required to complete the work in whatever method used by the contractor is to be included in the line items in the contract. No extras will be awarded for staging or temporary works	

ITEM	DESCRIPTION	Action By
2.02	Works include but not limited to: <ul style="list-style-type: none"> • Mobilization • Shop Drawings and Fabrication • Erosion / Sediment Control • Creek Diversion and water management • Layout • Select demolition and removals • Form and pour new reinforced concrete dam • Install new Edge Cap on weir and intake • Rock Dowels • Testing • Supply and install new sluice gate • As-builts 	
2.03	Extent of existing concrete removal to be updated as per pretender meeting. Removal of concrete to be performed in a manner that does not compromise concrete outside of the agreed upon removal areas. Sika Quick VOH for repair work - tender in unit rate per litre	
2.04	Sluice channel to be installed and protected by 50m rebar as grizzly bars. Contractor to core or remove and dowel cap back in to existing. Pipe is an option for sluiceway. Must be submitted to Engineer for approval as alternate.	
2.05	Sluice gate to be ordered immediately after contract award with modifications in frame height and actuating key as per drawings. Must be submitted to Creus with updated survey to review placement on dam wall. The sluice gate is part field fit and the contractor is responsible for taking measurements and the review of the proposed works must be ongoing with the engineer	
2.06	sluice gate cannot be above the top of weir wall - needs to be protected from debris damage and actuated from walkway with cored shaft as per dwgs. Need to confirm existing rock face doesn't interfere with actuating key cored through intake chamber.	
2.07	Payment item 4 in tender documents indicate protection measures required prior to concrete pouring, CO 2 diffuser required on site in case of spill.	
2.08	Diversion of flow by Contractor is part of the sediment and erosion works	
2.09	See Supplemental spec for testing requirements, listed tests are successful ones	
2.10	Must maintain road and control dust, ruts, erosion	
2.11	The existing plate on dam to be reinstated to protect existing buttress	
2.12	Contractor to remove excess material off site	
2.13	Shop drawings to be sent to engineer for review prior to order	
2.14	Contractor to support existing overflow pipe during works and all other pipes	
2.15	Work must be completed within timeframe indicated in contract - 6 weeks, on site date fixed by flow in creek	
2.16	Engineer to observe insertion of dowlings at all stages. 48 hours notice to be given prior to installation. Rock Anchors are to be 26 mm Dywidag Threadbar, to be installed per manufacturers recommendations in cement grout to have min 28day confined compressive strength of 25 MPA.	
2.17	Drawings are based on Web engineering drawings , contractor to locate utilities prior to works and review any differences with the Engineer	
2.18	New steel plate to be installed on uphill side of existing intake structure and wrap around edge as per dwgs.	
2.19	New Steel plate to be installed on corner of new dam face	
3.0	Approvals, Schedule and Tender	

ITEM	DESCRIPTION	Action By
3.01	Schedule to be submitted with tender and will be part of the review process. This is to be updated at issuance of contract.	
3.02	Contract changes to be issued by Creus and approved by owner. Contractor to review with Engineer Progress Claim by 25th of month for final submission by 30th	
3.03	Bid Bond is required, tender calls for pricing of performance and labour and material bond. Owner reserves the right to delete item at no cost	
3.04	Works expected to completed as stated in the contract	
3.05	"Email PDF tenders may be accepted if complete, signed with all relevant schedules including unit price, totals, schedule etc. in an attachment. Contractor to phone and receive confirmation email has been received. Tender to provide notice of intent to file by email 24 hours in advance of closing. Original tender from company to be supplied original in mail. This form of submission is at discretion and risk of contractor."	
3.06	contractor to submit tender per construction documents. Alternates may be listed separately but base tender must conform with contract documents	
3.07	"The lowest or any tender may not necessarily be accepted. The Owner unequivocally reserves the right to accept or reject any or all tenders, or part of any tender. The owner will review the amount and balance of the lump sum and unit rate amounts as well as schedule of works in evaluating the tenders. Award of the contract is contingent on meeting the budgetary requirements of the project."	
3.08	Contract expected to be awarded soon after tender received if submission are acceptable	
3.09	Environmental Approvals not an issue for starting	
3.10	Expectations are works completed this year. If unexpected water conditions impact schedule, contract will be amended to reflect progress to date and plan to demob and winterize in operational fashion.	
3.11	An electronic scan is sufficient for bid bond in this tender	
	end of meeting	

These minutes are intended to be a record of items discussed at the meeting and clarify but do not replace tender documents. Any inconsistencies between the tender documents and these minutes are to be reported by the contractor. These minutes are to be considered a complete and accurate summary of the items discussed at the above meeting. Recipients are to provide any clarification or omissions within 1 week of receiving these minutes; otherwise they are to be considered accurate.