

REQUEST FOR TENDER No. 21-030

Departure Bay Forcemain Rehabilitation

Addendum 1 (8 pages total)

Issued: May 7, 2021

Closing Date & Time: on or before 3:00 PM Pacific Time on May 13, 2021

1. Attached is Addendum 1 from the Project Engineer:

Mark Convery, Senior Civil Engineer AECOM <u>Mark.Convery@aecom.com</u> (EMAIL ADDRESS WHERE TENDERS MUST BE SUBMITTED)

2. Reminder:

Bidders must supply with their Tenders a **verifiable digital Bid Bond (e-bond) and a verifiable digital Consent of Surety** as defined by the Surety Association of Canada. Scanned copies are not acceptable.

https://suretycanada.com/SAC/Surety-Bonds/E-Bonding.aspx

Contract No. 21-030

DEPARTURE BAY FORCEMAIN REHABILITATION

Date: May 6, 2021

ADDENDUM NO. 01

Tenderers are advised that <u>Addendum No. 01</u> to Contract No. 21-030, Departure Bay Forcemain Rehabilitation is hereby issued by the Owner.

This Addendum forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts. The cost of all work contained herein shall be included in the Contract Sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above named project to the extent referenced and shall become part thereof.

1. Schedule of Quantities and Prices

REPLACE

Schedule of Quantities and Prices (attached). Changes are noted in RED and listed below:

Add item 5.9 - Tie ins to Ex. 150mm AC at Hammond Bay Rd (CH: 1+000 – 1+010) Add item 5.10 - Tie in to Ex. 150mm AC at Falcon Drive (CH: 2+249) Add item 5.11 - Tie in to Ex. 150mm AC at Osprey Lookout (CH: 3+028)

2. Supplementary General Conditions

REPLACE

Supplementary General Conditions Section 24.1.1 (2) as listed below. Changes are noted in RED.

24.0 Insurance

24.1.1 (2) GC 24.1.1(2) is deleted and replaced with the following:

Comprehensive General Bodily Injury and Property Damage Liability Insurance
Limits: General Bodily Injury and Property Damage – inclusive \$5,000,000
The insurance shall include *Contractor's* Contingent
Liability, and Contractual Liability of sufficient scope to include the liability assumed by the *Contractor* under the terms of this *Contract*, and Completed Operations Liability. The policy shall include the *Owner* and the *Contract Administrator* as additional insured's with a cross liability clause. Any property damage deductible shall be for the account of the *Contractor* and shall not exceed \$5,000.00 for any one occurrence.
Where such further risk exists, this insurance should include;

- shoring, blasting, excavating, underpinning, demolition, pile driving and caisson work, work below ground surface, tunneling and grading as applicable; and
- (ii) Limited Pollution Liability in an amount not less than \$2,000,000.00 per occurrence/ \$5,000,000.00 aggregate.

ADD

Supplementary General Conditions Section 24.1.1 (3) as listed below. Changes are noted in RED.

24.0 Insurance 24.1.1 (3) *GC 24.1.1(3)* is deleted and replaced with the following:

Course of Construction Builders' Risk Insurance Coverage on an "All Risks" basis in the amount of not less than the amount of the *Contract Price*; subject to a deductible provision for the *Contractor's* account not exceeding **\$5,000.00** each loss. Coverage to include the *Owner* as an additional insured.

3. Questions/Answers

Q1. Can the closing date be extended?

A1. Unfortunately the tender closing date cannot be extended due to a tight RDN timeline for internal approvals.

Q2. What is the size required for the temporary blow-off to be use for testing of the 1000mm Sanitary Forcemain?

A2. The Contractor may use any size temporary blow-off, provided it allows the Contractor to complete a successful hydrostatic test.

Q3. How is the Contractor getting paid to relocate existing sanitary services for the 1000mm Sanitary Forcemain?

A3. Relocation of existing utilities is included in Pay item 2.1 as set out in Supplementary Specifications Section 33 34 01 SS 1.8.1: "Service connections and utilities required to be relocated as specified/shown on Contract Drawings due to sewage forcemain installation shall be included in the linear meter price of sewage forcemain installed."

Q4. How is the Clearing getting paid for the 1000mm Sanitary Forcemain?

A4. Pay item 2.1 shall include everything required to complete the installation of the sanitary sewage forcemain except tie-ins. Thus pay item 2.1 shall include clearing.

Q5. Note #1 (sheet C-102) "the Contractor shall address active infiltration...as required prior to CIPP", is there any indication (video, etc) where the infiltrations are?

A5. No significant active infiltration was identified during most recent CCTV inspection of the approximately 155m section of the forcemain from the access manhole on Planta Road (marked for abandonment at CH. 0+508m on drawing C-103) to Bonnie Drive (approximately CH. 0+663m on drawing C-104). The CCTV inspection was undertaken by Knappett Industries Ltd in December 2019. The uncoded CCTV footage is being provided to tenderers to form a basis for the installation difficultly.

Acuren Group Inc. conducted ultrasonic thickness testing of the pipe at three locations on Hammond Bay Road between Planta Road and Bonnie Drive in January 2020. Substantial internal wall loss was detected predominantly in the sides of the pipe. There was one perforation discovered in the top of the pipe near Bonnie Drive and multiple holes were discovered on the sides of the pipe adjacent to 3536 Hammond Bay Road. The Acuren reports are also provided for information. Steel patches were welded to the forcemain to repair the holes at that time. The holes were not identified in the above mentioned CCTV footage.

The CCTV footage and Acuren reports are available for download at the link below: https://www.dropbox.com/sh/6dhbcic2y7vijac/AACWmiIdBwB5kC4ga9vE295Ba?dl=0

Q6. Where is pay item 4.1 "525mm CSP" in the drawings?

A6. Pay item 4.1 refers to the following item shown on drawing C-203: "Replace existing 12.4 m Ø525 CMP storm with new Ø525 galvanized CSP c/w 68mm x 12mm corrugations. Match existing inverts and backfill with pipe bedding compacted to 95% MPD."

Q7. Is the watermain fully restrained or just 3 meters each side of a fitting?

A7. Restraints must be provided 3m either side at bends, valves, tees, etc as shown on the drawings.

Q8. Is the Contractor doing the watermain tie-ins? If so, how are we getting paid?

A8. The Contractor shall complete the watermain tie-ins including liaising with the City of Nanaimo Operators to isolate watermains as required to complete tie-ins.

Separate pay items have been added to the schedule of quantities for watermain tie ins. Refer to Section 1.0 of this addendum.

Q9. Does the 1000mm Sanitary Forcemain require de-beading?

A9. Debeading of the 1000mm Sanitary Forcemain is not required.

Q10. Upon further review of the Insurance requirements for the above noted tender, and in speaking with our Insurance provider, we have been advised that it will be impossible to obtain a \$2,500.00 deductible. Can an addendum be issued to increase the deductible to \$5,000?.

A10. Refer to Section 2.0 of this addendum.

Q11. Are all couplers to be concrete encased or only locations as shown on details?

A11. Concrete encasement is only required for couplings on the 1000mm sanitary forcemain which require restraint at locations shown on the drawings. All other couplings on the 1000mm sanitary forcemain and the watermains shall be protected with a petrolatum based wax and tape coating system approved for potable water per AWWA 217.

Q12. What coatings and hardware are required on the Romac couplers. Ie: Shopcoat paint or Epoxy coated body. Plated or SS bolt hardware.

A12. Couplings for the 1000mm sanitary forcemain shall be epoxy coated with Type 304 stainless steel hardware.

Q13. The rubber gland requires a smooth surface to seal on existing pipe material. Is the AC fabric wrap coating to remain in place or removed on the 900mm steel pipe?

A13. Couplings shall be installed in accordance with manufacturers recommendations. It is expected the AC fabric wrap on the existing steel forcemain will be removed under the coupling to ensure the sealing of the gasket. The CTE coating on the existing steel forcemain may not have to be removed under the coupling provided it is only 1-2 mils thick.

Q14. What is actual operating and static pressure of this line?

A14. The forcemain is currently operating under gravity flow from the standpipe and through the section undergoing rehabilitation. In future when the pump station is upgraded and flow capacity is increased, this section will be pressurized. The future operating pressure in the rehabilitated section will be less than 10psi and minimal static pressure.

Q15. There is a gravity sewer relocation detail shown on Pg C-121, Can you confirm qty and what pay item to include this in. Is there a similar pay item for storm piping?

A15. Refer Question 3 of this Addendum regarding the pay item for relocation of existing utilities for the 1000mm Sanitary Forcemain. Sanitary service connections expected to require relocation are shown on Drawing C-101.

Q16. Further info & specification is needed for the Line Stop & Tapping sleeves.

- Is "double block and bleed" a requirement or consideration under current WCBBC rules for single valve isolation?
- Can these fittings be Epoxy Coated Carbon Steel or do they need to be 304SST?
- Can the permanent hardware (nuts, bolts and washers) be Corrosion Resistant, high strength low alloy (AWWA C-111, ANSI A21.11) or is 304SST required?

A16. Double block and bleed is not required as flow through the forcemain is controlled by Departure Bay Pump Station. The Contractor shall liaise with the Departure Bay Pump Station operators as required to shutdown flow.

Permanent couplings, flanges and fittings associated with the bypass for the 1000mm sanitary forcemain shall be epoxy coated with Type 304 stainless steel hardware, and shall be protected with a petrolatum based wax and tape coating system per AWWA 217 before final burial. The specifications of temporary valves and fittings for the bypass is the responsibility of the Contractor.

Q17. For the sewer bypass hot taps. Are the 400mm valves to be abandoned in place w/ blind flange or are the valves to be removed w/ a "completion plug" in place?

A17. The temporary bypass valves shall be removed. Blind flanges shall be installed in place.

Q18. Is there a preferred manufacturer/model# for the sewer air valve for bypass? Can you clarify the 80mm size, Is this to be 75mm(3") or 100mm(4")?

A18. The specifications of temporary air valves for bypass is the responsibility of the Contractor. A minimum 3" diameter combination air valve is required for the temporary bypass.

Q19. Further info & details are required to estimate the x2 custom CCFRP component @ Stn 0+570 & 0+593. Would Fabricated HDPE be acceptable as alternate to CCFRP?

A19. Fabricated HDPE would not be acceptable as alternate to CCFRP for any of the pipe spools at CIPP liner terminations as it is not expected that the CIPP liner would bond well to the HDPE.

Q19A. What is overall length required for each location?

A19A. The overall length can be specified by the Contractor to provide sufficient working space for CIPP liner installation.

Q19B. What is the riser height requirement for the 600Ø access & flange?

A19B. The riser height for the 600Ø access & flange shall be minimum 300mm.

Q19C. Is the 600Ø access & flange to be direct buried or inside concrete manhole?

A19C. The 600Ø access & flange shall be direct buried.

End of Addendum #01

Form of Tender – Appendix 1

<u>21-030</u> (contract #)

Departure Bay Forcemain Rehabilitation (TITLE OF CONTRACT)

SCHEDULE OF QUANTITIES AND PRICES

(See paragraph 5.3.1 of the Instructions to Tenderers - Part II)

ADDENDUM NO. 01:2021-05-06

ITEM #	REF	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT				
1.0 GENERAL										
1.1	01200S - 1.1.1	Mobilization/ Demobilization	LS	1	\$	\$				
	Subtotal Section 1.0 – GENERAL (Carry Forward to Tender Summary)									
2.0	2.0 SEWAGE FORCEMAINS									
2.1	33 34 01 – SS 1.8.1, SS 1.8.2	Supply and Installation of 1000mm dia. HDPE DR21 PE4710 Pipe	m	383	\$	\$				
2.2	33 34 01 - 1.8.10	Tie-in to existing sewer at Standpipe	LS	1	\$	\$				
2.3	33 34 01 - 1.8.10	Tie-in to existing sewer at Falcon Drive	LS	1	\$	\$				
2.4	33 34 01 - 1.8.10	Tie-in to existing sewer at Hammond Bay Road and Planta Road with access manhole	LS	1	\$	\$				
2.5	33 34 01 - 1.8.10	Tie-in to existing sewer at Chinook Road	LS	1	\$	\$				
2.6	33 34 01 - 1.8.3	150mm Diameter Gate Valve	Ea	1	\$	\$				
2.7	33 34 01 - 1.8.3	50mm Diameter Gate Valve	Ea	2	\$	\$				
2.8	33 34 01 – SS1.8.11	Abandonment of section of existing 900mm forcemain from Meadow Lane Road to Falcon Drive	m	275	\$	\$				
2.9	33 34 01 – SS1.8.11	Removal of section of existing 900mm forcemain from Standpipe to Meadow Lane Road	m	106	\$	\$				
	Subtotal Section 2.0	- SEWAGE FORCEMAINS (Carry Forwa	ard to Ten	der Summ	ary)	\$				
3.0	CURED IN PLACE P	IPE LINERS								
3.1	33 05 24 - SS 1.9.4, SS 1.9.6, 1.9.8	Supply and Installation of 900mm dia. AWWA Class IV CIPP Pressure Liner	m	410	\$	\$				
3.2	33 05 24 - 1.9.1	Bypass Flow Management	LS	1	\$	\$				
	Subtotal Section 3.0 – CURED IN PLACE PIPE LINERS (Carry Forward to Tender Summary)									
4.0 STORM SEWERS										
4.1	33 40 01 - SS 1.6.1, SS 1.6.2, SS 1.6.9, SS 1.6.12	525mm Dia. CSP Storm (supply and installation including removal and disposal of existing)	m	13	\$	\$				
	Subtotal Section 4.0 – STORM SEWERS (Carry Forward to Tender Summary)									
5.0	5.0 WATERWORKS									
5.1	33 11 01 - SS 1.8.2, 1.8.4	Supply and Installation of 25mm dia. PE Service Connection	Ea	27	\$	\$				

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ITEM #	REF	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT			
5.2	33 11 01 - SS 1.8.1, SS 1.8.2, SS 1.8.15	250mm Diameter PVC DR 18 Watermain, Includes imported backfill, joint wrapping, restraints, and appurtenances	m	122	\$	\$			
5.3	33 11 01 - SS 1.8.1, SS 1.8.2, SS 1.8.8, SS 1.8.15	200mm Diameter PVC DR 18 Watermain, Includes imported backfill, joint wrapping, restraints, and appurtenances	m	375	\$	\$			
5.4	33 11 01 - 1.8.3	250mm Diameter Gate Valve	Ea	3	\$	\$			
5.5	33 11 01 - 1.8.3	200mm Diameter Gate Valve	Ea	7	\$	\$			
5.6	33 11 01 - 1.8.3	150mm Diameter Gate Valve	Ea	4	\$	\$			
5.7	33 11 01 – SS 1.8.16	Hydrant Assembly (Includes gate valve, spool, restraints & hydrant)	Ea	1	\$	\$			
5.8	33 11 01 – 1.8.5	Air Release Valve Assembly (Includes chamber, lateral off main, isolation valve, connection to main). To CoN W-4	Ea	1	\$	\$			
5.9	33 11 01 - 1.8.13	Tie ins to Ex. 150mm AC at Hammond Bay Rd (CH: 1+000 – 1+010)	Ea	3	\$	\$			
5.10	33 11 01 - 1.8.13	Tie in to Ex. 150mm AC at Falcon Drive (CH: 2+249)	LS	1	\$	\$			
5.11	33 11 01 - 1.8.13	Tie in to Ex. 150mm AC at Osprey Lookout (CH: 3+028)	LS	1	\$	\$			
	Subtotal Section 5.0 – WATERWORKS (Carry Forward to Tender Summary)								
6.0 ROAD WORK									
6.1	32 11 16.1 – SS 1.4.1	75mm Road Sub Base (200mm thick)	m ²	1100	\$	\$			
6.2	32 11 23 – SS 1.4.1	19mm Road Base (100mm thick)	m ²	1100	\$	\$			
6.3	32 12 16 - SS 1.5.1	50mm LC#1 Asphalt	m ²	1100	\$	\$			
6.4	32 12 16 - SS 1.5.1	40mm UC#1 Asphalt (Mill & Overlay, Including Driveway Restoration)	m ²	2700	\$	\$			
6.5	03 30 20 – SS 1.4.5	150mm Concrete In-Fill Strips (Driveway Restoration)	m ²	50	\$	\$			
	Subtotal Section 6.0 – ROAD WORK (Carry Forward to Tender Summary)								

(All prices and *Quotations* including the *Contract Price* shall include all *Taxes*, but shall not include *GST*. *GST* shall be shown separately.)