



REQUEST FOR TENDER 19-039

Chase River Forcemain No. 1 Replacement and Pump Station Upgrades

Addendum 3

Issued: June 3, 2019

Closing Date & Time: before 3:00 PM (15:00 hrs) Pacific Time on June 6, 2019

This addendum shall be read in conjunction with and considered as an integral part of the Request for Tender. Revisions supersede the information contained in the original Tender or previously issued Addendum. No consideration will be allowed for any extras due to any Vendor not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

Contents:

1. Updated Schedule of Materials

An updated schedule of materials is attached.

This update includes:

- Item 5.4 quantity corrected to 15
- Item 4.2 Imported Granular Fill added.
- Item 12.5 (e) 50mm Thick road Pavement
- Item 15.2 – Cash Allowance added to be carried in all tender submissions.

Provisional Items – No change but included for clarity.

2. Question and Answer Log

The final Question and Answer Log – Rev 2. Is included.

Tender Clarification Log

Project Number: 707564
Project Name: Chase River Forcemain #1 Replacement and Pump Station Upgrades
Client: RDN
Date: 03-Jun-19
Revision: 2

Item No.	Initiated By	Date Initiated	Description	Response	Date Responded	Status
1	Iconix	14-May-19	Regarding the 200mm C900 PVC watermain.. Drawings say DR14, Schedule of quantities say DR18. Can you please clarify?	DR14	15-May-19	Schedule of Quantities to be updated for Addendum 1 2
2	Iconix	14-May-19	If the Mainline is to be C900 DR14 PVC, do the Hydrant Leads also need to be C900 DR14 PVC?	Yes	15-May-19	Closed
3	Iconix	14-May-19	Pay Item 5.3 – Do all Hub Fittings & Gate Valves require restraints? If so, I believe the quantity should be: 62	Only thrust blocks are required and accounted for in Item 5.2/5.4. Additional restraint qty removed.	15-May-19	Schedule of Quantities to be updated for Addendum 1 2
4	Iconix	14-May-19	I believe we are missing a pay item for the 200mm Fx Fx Tee at Sta. 0+320	Yes, to be added	15-May-19	Schedule of Quantities to be updated for Addendum 1 2
5	Iconix	14-May-19	Pay Item 5.4 (200mm HxF Gate Valves) – I believe this should be a quantity of 15.	Yes, to be increased to 15.	15-May-19	Schedule of Quantities to be updated for Addendum 1 2
6	Iconix	14-May-19	Pay Item 5.8 – Drawing Notes state 25mm Services. Schedule of Quantities ask for 50mm. Please clarify	25 mm	15-May-19	Schedule of Quantities to be updated for Addendum 1 2
7	Iconix	14-May-19	As 26" (650mm) HDPE Pipe is not a "Standard" size. Is there a chance we can look at 24" HDPE pipe? Fittings & Pipe are very hard to source for this 26" size as well. I've attached flow charts for your reference above.	24" HDPE (550 mm ID) is acceptable for the required PWWF of 540 L/s — velocity would be 2.3m/s, which is below the recommended 3 m/s. With 4 pumps in operation the pumps station discharge flowrate can reach 750 L/s increasing the velocity slightly above the recommended 3 m/s to 3.2 m/s which is why the larger size was selected. However current flowrates do not indicate the 750 L/s is encountered by the pump station. 24in provided as alternative option in provisional items. 26" HDPE has been selected, and previous investigation by the Engineer did not indicate any issues with obtaining material. 24" can be quoted as an alternative and if these is a significant cost and delivery advantage, a change to 24" might be entertained	15-May-19	Schedule of Quantities to be updated for Addendum 1 2
8	Iconix	14-May-19	Do you have a recommended Filter Cloth Specification for the Decommissioning of the Following: Blowdown Chambers, Air Release Chambers & Existing Manholes?	permeable, nonwoven, permanent textile for separation of 2 materials. <ul style="list-style-type: none"> • Apparent Opening Size – 70 us sieves (212 µm) • Tensile Strength – 100 lbs Properties similar to attached TEXEL040C or equivalent.	15-May-19	Closed
9	Iconix	14-May-19	What pay item should the Decommissioning of existing Manholes be paid under?	Item 6.4	15-May-19	Closed
10	Iconix	14-May-19	Is a Link Seal Application required pay item 6.3?	Yes	15-May-19	Closed
11	Iconix	14-May-19	For the Saddles required on the Air Valve & Blowdown Chambers.. Would Electro Fusion Saddle be acceptable? If not, What type of saddle is required here?	Electrofusion is acceptable.	15-May-19	Closed
12	Iconix	14-May-19	The Contract Drawings ask for a 2200mm Precast Manhole for the Air Valve Chambers. However, Pre-Casters do not make 2200mm Manholes. Can you please confirm?	Use next size standard manhole (i.e., 2,400mm).	15-May-19	IFC Drawings to be updated .
13	Iconix	14-May-19	The Drain Pipes for the Air Valve & Blowdown Chamber ask for a Sanitary DR18 Pipe. As DR18 references "Blue Water Pipe" is this correct? Would a SDR PVC DR28 work?	DR28 is acceptable.	15-May-19	IFC Drawings to be updated .
14	Iconix	14-May-19	The S/S Spool inside the Blowdown Manhole.. Can this be made into two pieces with a Flange Connection on the Vertical 90*?	Yes	15-May-19	Closed
15	Iconix	14-May-19	On the Plan View of the Blowdown chamber you show a Valve located inside the Manhole. Please confirm this is needed as it's not shown on the Section view.	No valve inside the manhole. The section view is correct.	15-May-19	IFC Drawings to be updated .
16	Iconix	14-May-19	I do not see a specification for the Pipe Casing Spacers. Can you please provide?	Spacers sized to center and support the HDPE pipe within the casing. Steel spacers with EPDM liner or polyethylene spacers are acceptable. Spacers shall not damage the pipe during installation.	15-May-19	Closed

17	Knappett	18-May-19	I don't find any general Specs, other than what appears to be the C.O.N. specs contained in the Supplementary Conditions. Is it safe to assume that the construction will follow the C.O.N. engineering specs?	Yes, as the road is C.O.N and only the force main RDN, we elected to use only the C.O.N standards to limit any conflicts	18-May-19	Closed
18	Knappett	18-May-19	Could you explain this clause from Section 00200 TENDER FORM, page 4, more fully? This is a lump sum contract. Where actual quantities differ from the quantities in Schedule 6 – Schedule of Quantities and Prices, approval of the changes in quantities are to be approved by the RDN appointed construction inspector and the RDN Project Manager prior to invoicing. Are you saying that you may not pay for quantities that overrun the estimated quantities in Schedule 6?	This clause was added as the contract was written as a lump sum, when we are fully aware that quantities in the unit rate items could differ in the field. The intent is that the contractor informs us of the difference prior to us receiving a payment certificate to expedite the review, approval and payment process. We will pay for actual quantities.	18-May-19	Closed
19	Knappett	19-May-19	The watermain depth from sta 0+300 to 0+360 approaches 2.5m cover. Is there an overriding factor that governs this? I think that the depth could be pulled up significantly and still provide clearance to the other utilities being crossed. If nothing else, the new hydrant lead should be stepped up so that we can install the nominal 1.4m bury hydrant that is common practice.	Contractor can provide alternative bid to decrease depth of cover and install an additional air valve chamber as per CON STD TYP DWG W-4 at high point.	21-May-19	Closed
20	Knappett	19-May-19	Regarding the 150mm AC watermain on Haliburton, north of sta 0+480. Does all of 150mm AC main need to be removed, or just whatever conflicts with the new 200mm C900 installation? There are some areas where the existing AC and the new alignment are more than 1.5m apart. Is it the intent to follow the existing AC alignment with the new main, or follow the new alignment indicated? If we have to "chase" the AC main and remove it, that becomes an entirely issue	Remove where conflicts with the new 200mm installation. Plug and cap all abandoned sections.	21-May-19	Closed
21	Knappett	19-May-19	I come up with a total of 962LM of 200mm Watermain. There is 17 Lm in the crossing to connect at Chase River Road. Is that in your totals?	17m has been added to Schedule of Quantities.	21-May-19	Schedule of Quantities to be updated for Addendum 1 -2
22	Knappett	19-May-19	All 9ea of the 200Hx200Hx150F tees are really 200Hx200Fx150F tees, if you look at the drawings.	Correct.	21-May-19	Schedule of Quantities to be updated for Addendum 1 -2
23	Knappett	19-May-19	In regards to hydrant assemblies and 150mm gate valves. You reference section 5.74 in the Hydrant Assemblies item. This section is not included in the supplementary specifications. The SECTION 5 in the Supplementary specifications ends at 5.63 If you are deferring to the C.O.N., please be advised that the Hydrant Assembly payment includes the 150mm gate valve at the mainline tee. But you have all 10ea hydrant gate valves listed for separate payment.	Section 5.74 included in Section 5 Water Distribution Measurement and Payment. Valves to be removed from the Schedule of Quantities.	21-May-19	Schedule of Quantities to be updated for Addendum 1 -2
24	Knappett	19-May-19	There are at least 4 Hydro/Telus poles along the watermain installation from Chase River Road to Haliburton, that will require pole holds while the construction moves past them. One is noted in Item 3.1a), as requiring relocation of the support anchors. Which it does. But, it will also require that the pole be held by a certified company while we work past it. This isn't an insignificant cost any more. Would you consider creating a tender item to deal with this cost? Failing that please make the other bidders aware of this .	Support of existing poles added as separate line item to 3.1 (c) and Section 3 Measurement and Payment updated to outline requirements.	21-May-19	Schedule of Quantities to be updated for Addendum 1 2
25	Knappett	19-May-19	I can only find 3ea watermain tie-ins, not the 4 in tender item 5.7. -Sta 0+000 on Island Hwy -Sta 0+320 @ Chase River Road	Connection at 0.012.	21-May-19	Closed
26	Knappett	19-May-19	The WATERMAIN NOTES on drawing GNINT-152 indicate that water services will be 25mm Poly. The Schedule of Quantities indicates only 50mm connections and 50mm poly pipe. Could you confirm that all new services will be 50mm connections?	Service connections to be 25mm.	21-May-19	Schedule of Quantities to be updated for Addendum 1 -2
27	Knappett	19-May-19	Regarding the 150mm AC watermain on Haliburton, north of sta 0+480. Does all of 150mm AC main need to be removed, or just whatever conflicts with the new 200mm C900 installation?	Remove where conflicts with the new 200mm installation. Plug and cap all abandoned sections.	21-May-19	Closed

28	Knappett	21-May-19	If you are mirroring a C.O.N. tender format, would you consider including an item for Import Trench Fill? That is standard operating procedure for City contracts. Trench import is paid for by the tonne.	All backfill is to be imported material and/or controlled density fill therefore price is to be included in Item 5.1 & 6.1. Item 4.2 has been added to addendum 3 to separate our imported fill	22-May-19	Closed
29	Knappett	21-May-19	Regarding item 4.1 temporary Surface restoration along Haliburton St , is this to include the cost of Cold Mix? Item 4.75 mentions "... and materials necessary to restore and maintain the traveled surface, as directed by the Engineer, using the materials as shown on the Tender Form." There are no specific materials mentioned on the tender form.	Yes to include cost of cold mix. Temporary restoration to be completed in compliance with Section 4 - Trench Excavation, Bedding and Backfill Specifications and Instatiion Section 4.28.4	22-May-19	Closed
30	Knappett	21-May-19	It would appear that tender item 3.3 and 3.6 are connected. Is item 3.3 being used to cover the cost of delivering the salvaged items in 3.6 to the City yard?	Correct.	22-May-19	Closed
31	Windley	21-May-19	For payitem #3.1.a: relocation of support anchors for BC Hydro poles. Normally the scope work will be done by BC Hydro. Contractors are not authorized by BC Hydro	There contractors certified by BC Hydro to provide this service. A separate line item has been added and section 3 Measurement and Payment has been updated to outline this item. An addendum reflecting these changes will be provided.	23-May-19	Closed
32	Windley	21-May-19	Wondering if we are responsible for QC material testing, environmental management plan and monitoring?	yes	23-May-19	Closed
33	Windley	21-May-19	For payitem #4.1 temporary surface restoration along Haliburton St. Please clarify which materials are to be used. Cold-mix, hot-mix, RAP or base gravel?	Include the cost of cold mix. Temporary restoration to be completed in compliance with Section 4 - Trench Excavation, Bedding and Backfill Specifications and Instatiion Section 4.28.4	23-May-19	Closed
34	Windley	21-May-19	For payitem #3.3: salvaged materials. Please clarify which materials are to be salvaged and locations for delivery.	This item will be removed. All removed material to be disposed, not salvaged.	23-May-19	Closed
35	Knappett	21-May-19	If you are mirroring a C.O.N. tender format, would you consider including an item for Import Trench Fill? That is standard operating procedure for City contracts.	All backfill is to be imported material and/or controlled density fill. We will add separate line items to the schedule of Materials in addendum 3	23-May-19	Closed
36	Knappett	22-May-19	Would you have any information on the existing asphalt thickness on the Island Hwy section, Chase River Road and Haliburton Street?	The Geotech report indicates 100mm and 150mm of asphalt at the two borehole locations on Haliburton Street. The geotechnical report from the project on the Island Highway just north of Haliburton Street. The asphalt thickness ranges from 100 mm to 250 mm.	23-May-19	Closed
37	Knappett	23-May-19	Could you please provide some clarification regarding the above ground valve & meter enclosure? Based on the foundation design, we assume that a Self Framing Building is required; however, section 13 34 23 does not define acceptable manufactures for the self framing buildings. We would like to confirm that either one of the following is acceptable: oAlmac Metal Industries - http://www.almacmetal.com/self_framing.html oStraight Up Metal Buildings - VIPRE Business Agent Anti-phishing removed a known bad URL from your email message. It was deleted or quarantined and replaced with this message.	Acceptable manufactures are listed in 13 34 23 Section 2.1.1. The manufacturers suggested appear to be equivalent and are acceptable as long as they can meet the specification requirements. No Longer Applicable	24-May-19	Closed
38	Knappett	23-May-19	Drawing CRPS-C-117-002 specifies Vicwest cladding note that a self-framing building uses the cladding system for its structural design, and that the cladding will be supplied by the building manufacturer. Please confirm that Vicwest cladding is not required for this project.	Vicwest cladding is preferred, approved equivalent is also acceptable. No Longer Applicable	24-May-19	Closed
39	Knappett	23-May-19	3. Does the building require insulation? If so, please provide insulation values.	Not Insulated No Longer Applicable	24-May-19	Closed
40	Knappett	23-May-19	1. Section 13 34 23, provision 1.1.1, states that the enclosure shall be removable in one piece and include lifting lugs and visible weight tag. A spreader bar shall not be required for the safe removal of the structure note that a steel skid base would need to be fabricated and become part of the enclosure, and that the current foundation design does not include a foundation prepared for a steel skid base. Please confirm that provision 1.1.1 does not apply to this project.	Due to the large doors a steel skid base was not used for the design. The building is to be a rigid design with adequate lifting points to avoid the need for a spreader bar. A removable roof that allows complete access for the purpose of replacing piping is also acceptable. No Longer Applicable	24-May-19	Closed
41	Raylec Power	24-May-19	Is RPVC Conduit acceptable at the pmp station as this is what is currently used on the site	yes No Longer Applicable	24-May-19	closed

42	Milestone	24-May-19	DWG 161 & 162 both note that the Blow Down and Air Valve Chambers are to have a 100mm diameter drain to the nearest sanitary sewer. Please confirm if it is the intention for the Blow Down and Air Valve Chambers to connect to the proposed sanitary forcemain.	The intention is to connect these drains to the local gravity sewer collection system and not the pressurized forcemain. A subsequent question asked if gravel pits are acceptable where the sewer is at a higher elevation. Gravel pits will be acceptable see question 59	27-May-19	Closed
43	Milestone	24-May-19	Would the possibility of preforming an open cut crossing of Chase River with a bypass of the stream be considered? If the MoTI could be feasibly finished within the duration of the project.	While we are not opposed to open cut crossings, from consultation with specialists it is unlikely that permits will be approved to meet the construction window. As this will add schedule risk to the project, the RDN has decided not to allow open cut on this project.	27-May-19	Closed
44	Milestone	24-May-19	DWG 154 shows the proposed WM service to 1140 Island Highway S connecting to the existing 200mm AC Watermain. Please confirm if this is the intent or if this service should instead connect to the new WM.	You are correct, this is a drafting error. 1140 Island Highway S is to connect to the new watermain	27-May-19	Closed
45	Milestone	24-May-19	Is removal of the existing watermain services required? If so, where will the removal of existing services be priced?	Remove where conflicts with the new 200mm installation. Plug and cap all abandoned sections. Priced as part of watermain installation	27-May-19	Closed
46	Milestone	24-May-19	What materials are expected to be included under item 3.3 – Salvaged Materials?	There will be no salvaged materials. Materials removed are to be disposed by the contractor.	27-May-19	Closed
47	Milestone	24-May-19	Please confirm if it would be possible for the tie-ins to be completed as night work?	Tie-ins at the pump station can be completed at night. Tie ins for water services to properties are to be completed during regular shifts.	27-May-19	Closed
48	Milestone	24-May-19	Section 12 Asphalt Concrete Paving has no measurement and payment information. Could this please be provided	Included in Addendum 2	30-May-19	Closed
49	Knappett	26-May-19	The Connection at MH 54, Section A on drawing 163, indicates that both 450mm FM's to be removed. I believe that is an error. Won't one of them be staying in place?	Yes that is an error. In the last drawing set, they had the section backwards. The note and leader was not removed when they corrected this. The Sectional Plan Detail 1 on dwg 163 is correct .	26-May-19	Closed
50	Knappett	26-May-19	Would you want a 650mm stub end fused to the new 650mm HDPE and sealed into the wall to help keep the 650mm main in place?	The stub in the wall will not work with the link seal. To avoid all movement an additional trust block will be added outside of the chamber at IFC stage. This will be handled through a change order after award.	27-May-19	Closed
51	Knappett	26-May-19	Regarding drawing 161 with the Air Release details. Can you confirm that all the pipe from the 150mm Gatevalve to the splitting tee inside the chamber will be 150mm SS SCH10 GR 316L ? Also, if the typical FxPE spool on the valve is ~ 1.0m, then the opposite FxPE spool (connecting to the splitting tee), must be ~ 1.95m long? Also, at the 0+040 location, there may not be enough distance to the chamber location, to allow for the middle PExPE spool piece.	Yes the pipe up to the splitting tee is to be 150mm SS Sch 10, the pipe after the tee is 100mm SS Sch 10. The couplings are to provide flexibility in the installation, one can be removed if space does not allow for it.	29-May-19	Closed
52	Knappett	26-May-19	There is an item in section 3, to remove manholes including valve, meter & fittings. Is this being repeated in section 6, item 6.4?	Yes. Provide price for the removal and abandonment of the air valve and blowdown chamber in Section 3.6. Remove item 6.4.	29-May-19	Closed
53	Knappett	26-May-19	I don't see a bid item for the actual tie-ins on the new FM. Item 6.3 is for re-benching the MH54 channel at sta 1+031. But the actual tie-in work isn't detailed in a tender item. Nor the tie-in at 0+000 at the pump station. Is this last one, part of Section 15?	The intent was payment for work associated with the tie-in at 0+000 to be included in Item 15.4 and payment for work associated with the tie-in at MH no. 54 to be included in Item 6.3.	29-May-19	Closed
54	Knappett	26-May-19	Would you want a 650mm stub end fused to the new 650mm HDPE and sealed into the wall to help keep the 650mm main in place?	The stub in the wall will not work with the link seal. To avoid all movement an additional trust block should be added outside of the chamber. These will be added to the IFC package. Thrust block pricing not required in this tender	29-May-19	Closed
55	Knappett	26-May-19	Regarding drawing 161 with the Air Release details. Can you confirm that all the pipe from the 150mm Gatevalve to the splitting tee inside the chamber will be 150mm SS SCH10 GR 316L ? Also, if the typical FxPE spool on the valve is ~ 1.0m, then the opposite FxPE spool (connecting to the splitting tee), must be ~ 1.95m long? Also, at the 0+040 location, there may not be enough distance to the chamber location, to allow for the middle PExPE spool piece.	Yes, the pipe up to the splitting tee is to be 150mm SS Sch 10, the pipe after the tee is 100mm SS Sch 10. The couplings are to provide flexibility in the installation, one can be removed if space does not allow for it.	29-May-19	Closed
56	Knappett	26-May-19	There is an item in section 3, to remove manholes including valve, meter & fittings. Is this being repeated in section 6, item 6.4?	Yes. Provide price for the removal and abandonment of the air valve and blowdown chamber in Section 3.6. Remove item 6.4.	29-May-19	Closed

57	Knappett	26-May-19	I don't see a bid item for the actual tie-ins on the new FM. Item 6.3 is for re-benching the MH54 channel at sta 1+031. But the actual tie-in work isn't detailed in a tender item. Nor the tie-in at 0+000 at the pump station. Is this last one, part of Section 15?	The intent was payment for work associated with the tie-in at 0+000 to be included in Item 15.4 and payment for work associated with the tie-in at MH no. 54 to be included in Item 6.3.	29-May-19	Closed
58	Knappett	26-May-19	Is the box MH structure at sta 1+031, a cast-in-place structure or pre-cast?	My understanding is that that it is cast in place. The Jacobs detail on dwg 163 is based off a direct copy of the original Dayton Knight detail.	26-May-19	Closed
59	Knappett	27-May-19	The Blow Down and A/R Chamber details indicate a 100mm connection to nearest sanitary from the chambers. Some of these structure are not close to gravity sanitary system or are much more deeper than the gravity system. Would you want a rock pit in those locations?	A rock pit is acceptable in these locations	28-May-19	Closed
60	Knappett	28-May-19	The P3.1 section for grouting 200mm and 150mm AC pipe – is this for watermain along Haliburton that may be abandoned in place?	P3.1 is basically a rate for grouting and abandoning the AC watermain where needed.	28-May-19	Closed
61	Knappett	28-May-19	Where will item P4.4 Additional concrete and CDF be utilized?	Item P4.4 is for a rate in case CDF is required should there be areas where the two forcemains are close together and compaction is challenging.	28-May-19	Closed
62	Knappett	28-May-19	Will the Provisional Items schedule be factored into the totals for bid comparison purposes? Seems a bit much, as the main cost item (650mm or 600mm FM) is now effectively included twice.	I apologize for the 600mm pipe in the provisional. That should never have been added to the schedule. It will be removed.	28-May-19	Closed
63	Copcan	29-May-19	Can you extend the current tender closing date from June 6th by 2 weeks?	Unfortunately, we need Board approval to award this project. A 2 week extension will result in a month delay as we will miss the June Board meeting.	29-May-19	Closed
64	Knappett	29-May-19	I see an item for sidewalk removal and an item for sidewalk/curb subgrade prep. I don't find an item for any concrete sidewalk placing. Will all the sidewalk be 50mm asphalt, as per Item 12.5a	The sidewalk is a multi-use walking/cycling path and is 50mm asphalt per 12.5a	29-May-19	Closed
65	Knappett	29-May-19	If there are Liquidated Damaged or Late Penalties, please define the amount to be charged \$_____/day.	We have not included Liquidated damages, or late fees. We will be completing a post project contractor appraisal. Poor performance such as late completion could have a significant impact on qualifying for the future planned RDN projects	31-May-19	Closed
66	Copcan	29-May-19	Do you have data on the inflow rate to the pump station wet well and pump station holding capacity? This would help understand how long the system can be shut down during the above grade meter/valve change over.	The pump station can be shut down for 30 minutes during summer low flow conditions. For the changeover and the connection of the new valve station at the pump house, bypass piping is in place to allow for this connection, which will be removed once the new valve station is in place. There are currently two forcemains. One is currently live and will remain live till after the tie in of the new FM and valve station to the pumphouse. Once the new line is live, the existing line can be connected to the valve station. Valving will be in place for this second tie in. At the north end, diversion through sandbagging etc. will be required in the manhole to ensure that flow is kept away from the area where the one forcemain will be removed and replaced. We are not expecting the need for bypass pumping.	29-May-19	Closed
67	Copcan	30-May-19	Can you clarify the following in the schedule of quantities item 5.4 released in addendum 2?	This is a typo. The quantity increased from 12 to 15, and will ne adjusted in Addendum 3	30-May-19	Closed
68	Copcan	30-May-19	We had our pile driving contractor review the site today and it appears there are overhead power lines that are only 30ft above the proposed pile locations. Will the owner be responsible for temporary relocation of the overhead power lines during construction?	We will allow additional splices in the piles to allow the use of low headroom piling equipment. All welds are to be full penetration	31-May-19	Closed
69	Raylec Power	30-May-19	Will contractor be responsible for programming and commissioning the Pressure transmitter & Flow meter	The RDN will be responsible for commissioning and programming the pressure transmitter and flowmeter. The contractor will be responsible for supporting this process as it relates to deficiencies and the physical installation of the instruments	3-Jun-19	Closed

70	Milestone	31-May-19	Please confirm what is required for item 4.1 - Travelled Surface Restoration	Item 4.1 Permanent Travelled Surface Restoration includes: For surface restoration of traveled areas, (roads, shoulders, driveways, sidewalks, curbs and walkways), price shall include all labour, equipment and materials necessary to restore the traveled areas, to a condition equal to or better than existed prior to construction and in accordance with the specifications and drawings. This price shall include surface cutting and removal, supply and installation of gravel materials, and restoration of the travelled surface. Refer to Section 4.27 & 4.28 for further details. Permanent surface restoration of traveled areas will include the areas from the Chase River pump station, along Island Highway and Haliburton Street up to the Chase River Road intersection (1081 Haliburton St.). Temporary surface restoration will be along Haliburton Street from 1081 Haliburton St to 1080 Highview Terrace. The permanent restoration will be completed as part of the Road Restoration, with quantities account for in Section 8 to 10.	3-Jun-19	Closed
71	Milestone	31-May-19	Where is controlled density to be installed during to course of Valve Chamber Demolition, per section 15.1?	From the bottom of the chamber up to 300mm below final grade. Refer to CRPS-C-117-DEMO for description and Appendix C for existing chamber drawings.	3-Jun-19	Closed
72	Milestone	31-May-19	Where will the payment for the 50mm overlay at either end of Halliburton road be included?	Item 12.5e - 50 mm Thick Road Pavement – 510 m2 added to schedule of quantities Addendum 3	3-Jun-19	Closed
73	Milestone	31-May-19	Item 7.2 of Section 7 calls for one 1050mm precast manhole section to be installed. Where is this to be installed?	The 1 vertical meter quantity is to account for the 4 manhole height adjustments required on drawings GNINT- 170 to 173	3-Jun-19	Closed
74	Gadd	31-May-19	The specs have called for 15 meters of embedment. Could you provide the pile tip elevation of the pile relative to plan elevations ?	Pile cut-off elevation (3.771 m) and cap plate elevation (3.751 m) including the the pile schedule on GNINT-160.	31-May-19	Closed
75	Gadd	31-May-19	High voltage power lines over one pile location require low headroom installation methods. The spec calls for no more than one splice per pile. Can extra splices be used as necessary to install the pile?	Extra splices are acceptable as long as all welds are full strength welds.	31-May-19	Closed
76	Milestone	31-May-19	Please confirm if covering soft costs will be associated with this project as per p. 65 section 5.2.5.4 of the tender document, will be required for this project.	Yes. Allow an additional 15% of the total construction contract value as a minimum to cover these additional costs.	3-Jun-19	Closed