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ADDENDUM #7

36521-91345-T06

Laporte and Leonard WWPS Reliability Upgrade

Date: January 13, 2022

The Following modifications and clarifications are to be made and taken into consideration for the above referenced RFT and shall become a part of any resulting contract.

Instructions:
At Article 4. Schedule of Events
Delete:
Closing date: Thursday, 13 January 2022- 3:00pm

Replace with:
Closing date: Thursday, 20 January 2022- 3:00pm

Delete:
Deadline to submit questions: Thursday, 06 December 2022

Replace with:
Deadline to submit questions: Thursday, 13 January 2022

Replace Laporte L-01, L-02, P-02, P-03, P-04, P-05, S-000, S001, S004, S-005, E206, E207, I105, and I108 drawing with enclosed.
Replace Leonard P-01, P-02, P-03, P-04, P-05, S-001, S-003, S-005, S-006, S-007, E208, E209, I105, and I108A drawing with enclosed.

Laporte Specification 13991, 16131, 16161, 16223 updated to include outdoor electrical enclosures painted green. Contractor shall submit RAL color number for final approval during the shop drawing review stage.

Laporte Specification 16238 updated to include the Generator enclosure painted green. Contractor shall submit RAL color number for final approval during the shop drawing review stage.

Revised and New Specifications Attached:

- Leonard CR013786
  - Section 01117 Attachment A
  - Section 02531
  - Section 11160
  - Section 11201
  - Section 11210
  - Section 11890
- Laporte CR013785:
  - Section 01117 Attachment A
  - Section 02822
  - Section 11160
  - Section 11201
  - Section 11210
  - Section 11890

Changes are as follows:

1. Leonard CR013786 01117:
   a) Replace Attachment A with new Attachment A Isolation Request Form
2. Leonard CR013786 02531:
   a) Section 1.3.4: The following text is added:
      - **CSA B182.2, PVC Sewer Pipe and Fittings**
      - **CSA B182.7, Multilayer PVC Sewer Pipe**
      - **CSA B137.3, Rigid PVC Pipe and Fittings for Pressure Applications**

   b) Section 2.1.3 : The following section text is added:
      - **PVC Pipe**
        1. **PVC Pipe to be SDR21 where specified on drawings, to CSA B137.3**
        2. **Regular gaskets**
        3. **All joints shall be mechanically restrained**
        4. **Fittings, bends, couplings, as required and as noted on drawings**
        5. **Thrust blocks to be as per City of Ottawa standard W25.3, W25.4 and Contract Drawings.**
        6. **Cathodic protection to be as per City of Ottawa standard W40, W42, this section**
        7. **Manufacturer:**
           - **Series Pipe supplied by Ipex**
           - **IPS Series Pressure Pipe supplied by NAPCO**
           - **AQUALOCK PVC Series pipe supplied by Next Polymers**
           - **Or approved equal**
3. Leonard CR013786 11160:
   a) Section 2.11 Stainless Steel Ball Valve is deleted in its entirety

b) Section 2.12.5 Combination Air Valve: Deleted existing section and replaced with the following wording:
   - Suitable for sewer use, combines the operating features of both an air and vacuum valve and an air release valve. Air and vacuum portion to automatically exhaust air during filling of system and allow air to re-enter during draining or when vacuum occurs. The air release portion to automatically exhaust entrained air that accumulates in system.
   - Rated 1030 kPa working pressure, stainless steel 316 float and trim, stainless steel 316 body and float, built and tested to AWWA C512 and M51
   - Single body valve, air release valve mounted on air and vacuum valve, with upper body compression chamber and funnel shaped lower body. Flanged inlet and cover outlet. Valve shall close tightly at any pressure as low as 2 psi without leaking or spilling.
   - Fusion bonded epoxy exterior.
   - Manufacturers and Products:
     1. APCO Combined Air Release Valve (ASU-SCAV)
     2. Val-Matic Valve; Model 801AS

c) Part 4 Supplemental Valve Schedule is deleted in its entirety and replaced with the following table

Valve Tag	Type	Location	Nominal Diameter (mm)	Valve End Connections	Actuator
TBC	CV-B	Wet Well - Pump 1 Discharge Ball Check	75	Flanged	N/A
TBC	CV-B	Wet Well - Pump 2 Discharge Ball Check	75	Flanged	N/A
TBC	PV	Wet Well - 75 FM Isolation	75	Flanged	Bevel Gearbox Extension
TBC	PV	Wet Well - 75 FM Isolation	75	Flanged	Bevel Gearbox Extension
TBC	**PV**	Bypass Manhole - 75 FM Isolation	75	Flanged	Bevel Gearbox Extension
TBC	**KGV**	Bypass Manhole - 75 FM Isolation	75	Flanged	Bevel Gearbox Extension
TBC	**PV**	**Bypass Manhole - 75 FM Drain**	**75**	**Flanged**	
TBC	CV-INS	One-Way Valve Overflow	200	Insertion-Type	N/A

Valve Tag	Type	Location	Nominal Diameter (mm)	Valve End Connections	Actuator
TBC	CV-INS	One-Way Valve Downstream Inlet	225	Insertion-Type	N/A
TBC	**AV**	**Combination Air Valve**	**50**	**Flanged**	

4. Leonard CR013786 11201:
    a) Bevel gear operators are not required, Part 3.8 Sluice Gate Schedule is deleted in its entirety and replaced with the following table

	Gate ID Tags	
	SG-01	**SG-02**
Location	***South Sanitary Inlet***	***North Sanitary Inlet***
Quantity Required	1	1
Rising Stem (Y/N)	N	N
Gate Opening Direction	Up	Up
Size of Wall Opening (Diameter, mm)	250	250
Type of Water Head	Unseating	Unseating
Water Head (m)	3.7	3.6
Opening Invert Elevation (± m)	55.90	55.975
Operating Floor Elevation (m)	N/A	N/A
Gate Mounting	Direct to concrete in front of existing 250mm dia. Pipe inside a round concrete wet well. Contractor to confirm the inside/outside dia. Of the existing pipe prior to submitting shop drawings. Design the gate frame and provide extra wide flanges to suit the curvature of the wet well	Direct to concrete in front of existing 250mm dia. Pipe inside a round concrete wet well. Contractor to confirm the inside/outside dia. Of the existing pipe prior to submitting shop drawings. Design the gate frame and provide extra wide flanges to suit the curvature of the wet well
Operator Type	~~*Bevel Gear with*~~ 50mm operating nut and flush floor box and extended stem	~~*Bevel Gear with*~~ 50mm operating nut and flush floor box and extended stem

5. Leonard CR013786 11210:
    a) Section 2.1.1.4: Wording modified to be as follows:
        - Per pump: Duty point **6.6 L/s** at **8.6m** of total head

6. Leonard CR013786 11890:
    a) Section 1.3.2: Wording added as follows:
        - Submit RAL color number for final approval during the shop drawing review stage.
    b) Section 2.1: Wording added as follows:
        - Paint enclosures exterior green, or a colour to be confirmed by the Contract Administrator during the shop drawing review stage.
        - Clean and touch up surfaces of shop-painted equipment scratched or marred during shipment or installation, to match original paint.
        - Clean and prime exposed non-galvanized components to prevent rusting.
7. Laporte CR013785 01117:
    a) Replace Attachment A with new Attachment A Isolation Request Form
8. Laporte CR013785 02822:
    a) Section 1.5.2: Wording added as follows:
        - **Submit RAL color number and surface coating and finish details for final approval during the shop drawing review stage.**
9. Laporte CR013785 11201:
    a) Bevel gear operators are not required, Part 3.8 Sluice Gate Schedule is deleted in its entirety and replaced with the following table

	SG-01
Location	*Sanitary Inlet – Outlet to Wet Well*
Quantity Required	1
Rising Stem (Y/N)	N
Gate Opening Direction	Up
Size of Wall Opening (Diameter, mm)	250
Type of Water Head	Unseating
Water Head (m)	2.95
Opening Invert Elevation (± m)	61.65
Operating Floor Elevation (m)	N/A
Gate Mounting	Direct to concrete in front of existing 250mm dia. Pipe inside a round concrete wet well. Contractor to confirm the inside/outside dia. Of the existing pipe prior to submitting shop drawings. Design the gate frame and provide extra wide flanges to suit the curvature of the wet well
Operator Type	~~*Bevel Gear with*~~ 50mm operating nut and flush floor box, and extended stem

1. Laporte CR013785 11160:
    b) Part 4 Supplemental Valve Schedule is deleted in its entirety and replaced with the following table

Valve Tag	Type	Location	Nominal Diameter (mm)	Valve End Connections	Actuator
TBC	**BCV**	Valve Chamber Pump 1 Discharge Check	75	Flanged	~~*Bevel Gearbox Extension*~~
TBC	**BCV**	Valve Chamber Pump 2 Discharge Check	75	Flanged	~~*Bevel Gearbox Extension*~~
TBC	PV	Valve Chamber - 75 FM Isolation	75	Flanged	Bevel Gearbox Extension
TBC	**KGV**	**Valve Chamber - 100 FM Isolation**	**100**	**Flanged**	**Stem extension**
TBC	**KGV**	**Valve Chamber - 100 FM Drain**	**100**	**Flanged**	**Stem extension**
TBC	PV	Valve Chamber – Pump 1 75 FM Isolation	75	Flanged	Bevel Gearbox Extension
TBC	PV	Valve Chamber - Pump 2 75 FM Isolation	75	Flanged	Bevel Gearbox Extension

Valve Tag	Type	Location	Nominal Diameter (mm)	Valve End Connections	Actuator
TBC	CV-INS	Wet Well - Overflow Check	400	Insertion-Type	N/A

2. Laporte CR013786 11210:
    b) Section 2.1.1.4: Wording modified to be as follows:
        - Per pump: Duty point **6.8 L/s** at **8.4m** of total head
3. Laporte CR013785 11890:
    a) Section 1.3.2: Wording added as follows:
        - Submit RAL color number for final approval during the shop drawing review stage.
    b) Section 2.1: Wording added as follows:
        - Paint enclosures exterior green, or a colour to be confirmed by the Contract Administrator during the shop drawing review stage.
        - Clean and touch up surfaces of shop-painted equipment scratched or marred during shipment or installation, to match original paint.
        - Clean and prime exposed non-galvanized components to prevent rusting.

Clarification:

Questions & Answers:
Q1. Please provide the invert level of MHSA42278

A1. MHSA42278 information:

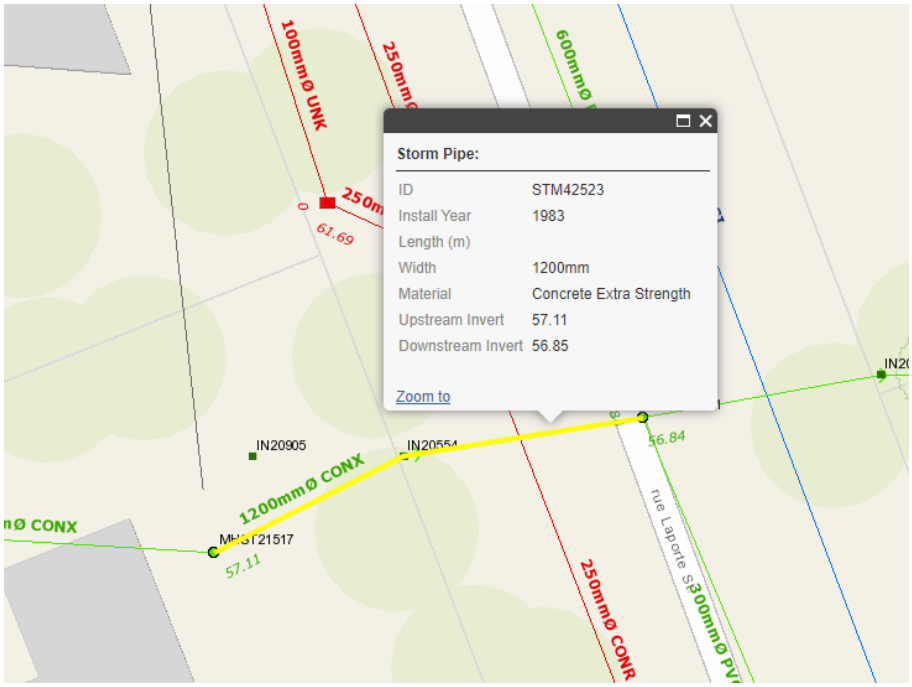
N.INV.61.82m
S.INV. 61.81m
W.INV. 61.80m

Q2. Please clarify what Conceptual Temporary station bypass plan note 10 "manage station inflow by vacuum truck" means.

A2. Note 10 is in reference to managing the station inflow by vacuum truck in order to make the final forcemain connection between the existing forcemain and the new forcemains section.

Q3. Please provide the invert or depth of the existing 1200mm storm sewer under the proposed noise barrier system, as shown on drawing C-04.

A4. City of Ottawa, Water and Wastewater Networks - Interactive Map (https://ottawa.ca/en/planning-development-and-construction/developing-property/engineering-services#water-and-wastewater-networks-interactive-map) shows the following for the storm sewer depth:



Q4. Please confirm if the 1:200 scale as noted on drawing L-01 and L-02 is correct.

A4. The graphic scale bars on the drawings are showing the correct scale, but the drawings are not 1:200 updated drawings with correct scale reference included as part of this addendum.

Q5. Are any condition assessments Reports of the existing PS's available? Are any photos inside of the existing PS wet wells available?

A5. Conditions assessment reports and photos, included in this addendum and are available for download through MERX.

Q6. Contractually the City of Ottawa is asking for the following on the Builders Risk deductibles "The Deductible shall be no greater than $10,000 for Direct Damage. The Deductible for Flood shall be no greater than $25,000. The Deductible for earthquake shall be 3% of the total loss subject to a minimum of $100,000. All Deductibles shall be the sole responsibility of the Successful Tenderer." This is not reasonable considering the 115 Leonard is in a 100 year flood zone, and the Ottawa region being much more prone to earthquake activity statistically speaking. At the end of the day the deductible will be the sole responsibility of the GC who is awarded the contract, and I suspect the City has not reviewed or mapped the flood risk in this area. I cannot think of an insurer who would take on a $25,000 Flood deductible knowing a portion of the project sits within a 100 year floods zone.

A6. With respect to the deductibles required in the Builders Risk, the deductibles will remain as shown on the tender document.

Q7. Drawing C-03 states to "keep the existing sunshade in place". Drawing C-04 states to "reinstall existing sunshade". Please clarify.

A7. Existing sunshade structure to remain in place. See electrical drawings.

Q8. The specifications for Leonard WWPS includes section 02822 Precast Noise Barrier. There is no noise barrier shown on the drawings for Leonard. Please confirm if a noise barrier is not required at Leonard WWPS.

A8. No noise barrier is required for Leonard PS.

Q9. The specification calls for a portable load bank (16238, 2.12), but the Single Line Diagram calls for a load bank docking station. Can you please confirm which one is required or if both are required?

A9. the portable load bank and a portable load bank mating plug and receptacle are required. Refer to specification 16414 for the load bank mating plug and receptacle requirements

Q10. Drawing P-02 at Laporte is calling for 3" DI piping to be used which does not exist. Can you please review and confirm what material/size piping is to be used?

A10. 3” DI is a AWWA C151 standard and does exist.

Q11. Drawing P-02 at Laporte is calling for 3" DI piping to be used which does not exist. Can you please review and confirm what material/size piping is to be used?

A11. See Answer 10.

Q12. Addendum 5 changed the closing date to Jan. 20th, and then Addendum 6 changed the date to Jan 13th. Can the closing date be changed back to Jan. 20th?

A12. Tender closing date has been extended to Thursday, January 20, 2022.

Q13. Leonard: Note 9 on drawing E208 indicates to provide a Multitrode Probe. Can you confirm if this is required?

A13. Multitrode probe is not required.

Q14. Note 8 on Leonard drawing E208 & note 8 on Laporte drawing E206 are referred to twice on the single line diagrams. Can you confirm that there is only one ultrasonic level transmitter at each pumping station, and that the other sensor that has reference to note 8 is a laser level transmitter?

A14. One (1) ultrasonic level transmitter (primary) and one (1) laser level transmitter (backup) is required in the wet well as per specification 13000.

Q15. Can you confirm that the soft starters at Laporte PS are required to be inside of a kiosk, and the soft starters at Leonard PS do not need to be inside a kiosk?

A15. The Laporte soft starters shall be installed on the new sun shade structure, and the Leonard soft starters are installed on the existing sun shade structure at the wet well.

Q16. Leonard & Laporte: The LP-1 Panel schedules show a circuit for Kiosk AC unit. The AC units are not shown on the single line diagrams or on the Kiosk Typical Construction Details. Can you confirm if AC units are required for the Power Distribution Kiosks?

A16. Refer to attached Laporte E207 and Leonard E209 for revised LP-1 panel schedule.

Q17. Does the soft starter kiosk require a heater or an AC unit?

A17. The soft starters require a heater as per specification 16223. AC unit not required.

Q18. The preferred product supplier for access hatches as per specs section 05500 has informed us that circular hatches are not available with drainage frames, in weathertight designs or in the configurations as shown. At Leonard WWPS: Hatch to be rectangular 1050 x 1050mm. Circular frame not available as shown on P-02. At Laporte WWPS: Hatch to be rectangular 750 x 900mm. Circular frame not available as shown on S-004

A18. See revised drawings as part of this addendum, loading and number of leaves on circular framed hatches has been modified, Contractor shall provide hatches to the dimensions/project requirements shown. All hatches shall be weathertight.

Q19. Is there a requirement that the temporary sanitary bypass pumping equipment located within a sanitary maintenance holes to be rated for NFPA 820 Class 1 Zone 1 (explosion proof)?

A19. Yes, bypass pumping equipment located within a sanitary maintenance holes shall be rated for NFPA 820 Class 1 Zone 1.

This addendum forms part of the Request for Tender. In your Form of Tender, please indicate receipt thereof, failure to do so may result in the rejection of the tender submission.

For further information, please contact Julie-Ann Williams, Procurement Officer,

Supply Services at Julie-Ann.Williams@ottawa.ca.

End of Addendum #7