

599-2023 ADDENDUM 2

2023 Sewer Renewals by CIPP Lining – Contract 5

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE
BID/PROPOSAL**

ISSUED: October 24, 2023
BY: Tanner Beavis
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID/PROPOSAL AND SHALL FORM
A PART OF THE CONTRACT DOCUMENTS**

Template Version: Add 2021-03-05

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid/Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid/Proposal may render your Bid/Proposal non-responsive.

FORM B: PRICES

Replace: 599-2023_Form_B-Prices with 599-2023_Addendum_2-Form_B-Prices. The following is a summary of changes incorporated in the replacement Bid/Proposal Submission:

- Form B(R1): Revise Item No. 7.
- Form B(R1): Revise Item No. 12 – Provisional to Item No 13 – Cash Allowances.
- Form B(R1): Add Item No. 12 – Wet Weather Delay

PART D – SUPPLEMENTAL CONDITIONS

- Revise: D21.1 to read: The Contractor shall achieve Substantial Performance within Eighty-Five (85) consecutive Working Days of the commencement of the Work as specified in D19 or by September 15, 2024; whichever comes first.
- Revise: D22.1 to read: The Contractor shall achieve Total Performance within Ninety-Five (95) consecutive Working Days of the commencement of the Work as specified in D19 or by September 29, 2024; whichever comes first.

PART E – SPECIFICATIONS

- Revise: E7.3.4 to read: Weather
 - (a) Environment Canada shall be used as the baseline weather forecast for planning and scheduling of Work.
 - (i) Environment Canada for Winnipeg, MB: https://weather.gc.ca/city/pages/mb-38_metric_e.html
 - (ii) Please note the above hyperlink to Environment Canada is correct at the time of Tender issuance, however this may change during the course of the Contract. The Contractor can contact to the Contract Administrator to confirm any changes as necessary.
 - (b) The Contractor shall review the Environment Canada weather forecast at a minimum once daily, and prior to Work commencing on site each day.
 - (c) When forecasted wet weather exceeds 5 mm, delay installation of liners and/or secure existing work sites.

- (d) Where wet weather equal to or less than 5 mm of rainfall is forecasted, Work may proceed under the following conditions:
- (i) Mainline diameters equal to or less than 400 mm:
 - i. The Contractor has reviewed the forecasted rainfall event and provides confirmation to the Contract Administrator that the proposed flow control measured provided are able to accommodate anticipated flows.
 - (ii) Mainline diameters greater than 400 mm:
 - i. The Contractor demonstrates to the Contract Administrator via numerical calculations that the proposed bypass system is capable of accommodating anticipated flows.
 - ii. Upon request, AECOM will provide the Contractor with a map of the estimated catchment area to aid in the assessment.
 - iii. Requests for estimated catchment area maps shall be provided a minimum of 3 Business Days prior to the work.
 - iv. Estimated catchment maps, if provided, are based on readily available information. There is no guarantee regarding accuracy of the information.
- (e) The Contractor shall advise immediately of any weather-related delays.
 (f) The Contractor shall schedule Work according to the weather.

Add: E7.4 (f) Stoppages or delays in Work due to forecasted wet weather events in accordance with E7.3.4 (a) through (f) will be measured and paid at a fixed rate basis at the Contract Unit Price for Wet Weather Delay.

Add: E7.4 (g) Payment for Wet Weather Delay shall not include:

- (i) Other non-weather concerns resulting in delays.
- (ii) Where delays due to wet weather were preventable or avoidable.

Revise: E9.3.6 (c) to read: (c) Manhole rungs removed to facilitate installation of CIPP liner must be replaced with new manhole rungs meeting the requirements of CW 2130.

Asset ID	Street	US MH ID	DS MH ID	MH Modifications Required
S-MA20011461	Portage Ave (SPL)	S-MH20010446	S-MH20009685	-Remove and reinstall frame and covers. -Remove and replace one MH if required to facilitate lining.
S-MA20015331	Westminster Ave	S-MH20013810	S-MH20013824	-Remove and reinstall frame and covers. -Remove and replace one MH if required to facilitate lining.
S-MA20016571	Portage Ave (S.OF CL)	S-MH20014905	N/A	-Remove and reinstall US frame and cover if required. -Remove and replace US MH if required to facilitate lining.
S-MA50004056	Gauvin St	S-MH50003520	S-MH50003521	-N/A
S-MA50007515	Hill St	S-MH50006439	S-MH50006440	-N/A
S-MA70003172	Hill St	S-MH5006440	S-M70016195	-N/A
S-MA50007563	Hill St (CL TO W.PL)	S-MH50006442	S-MH50006481	-Remove and reinstall frame and covers if required. -Remove and replace one MH if required to facilitate lining.
S-MA50014578	Kingston Row	S-MH50011686	S-MH50011684	-Remove and reinstall frame and covers if required. -Remove and replace DS MH if required.
S-MA50017468	St Thomas Rd	S-MH50014181	S-MH50014182	-N/A
S-MA50017485	St Thomas Rd	S-MH50014198	S-MH50014197	-Installation of a new MH on upstream 600 mm force main to facilitate access.
S-MA60022652	Easement (E. of St Norbert Collegiate)	S-MH60019004	S-MH60019006	-Installation of new MH at approximately 38 m DS. Refer to drawings.

Asset ID	Street	US MH ID	DS MH ID	MH Modifications Required
S-MA70019662	Woodhaven Blvd	S-MH70007232	S-MH558-007	-Remove and reinstall frame and covers if required. -Remove and replace US MH if required.

QUESTIONS AND ANSWERS

- Q1: Specification E9.3.6 Manhole Repairs, Modifications, and Installations provides a chart with MH Modifications Required. Corresponding tender items in Section 7. Sewer and Manhole, Preparation, Repairs and Stabilization for these modifications. The following pipe ID's are listed in the chart, but do not have a corresponding tender item. Can a tender item be added for S-MA50007563 and S-MA70019662?
- A1: Refer to Addendum 2. Items have been added to the Form B.
- Q2: Form B, Section 7 has pipe ID S-MA70003172 on the tender form but not included in Specification E9.3.6 chart listing MH Modifications Required. What MH Modifications are required at this location? If it is not required, what is the Contractor to put for the Unit Price?
- A2: Refer to Addendum 2. Item has been removed from the Form B.
- Q3: Section E9.3.6 of the Tender Documents states that for segment S-MA50014578 the contractor will have to "Remove and Replace the D/S MH". Is this only required if needing to facilitate CIPP installation or Full Manhole Replacement required by the City as part of the contract? If only needing to facilitate CIPP installation, depending on the Contractor's methodology, is a Partial Manhole Replacement acceptable?
- A3: Work on the downstream MH, S-MH50011684, is only needed if required to facilitate CIPP installation. Partial manhole replacement would be acceptable means and methods.
- Q4: Project Location S-MA60022652 – Is the school aware that based on the location of the new manhole to be installed this will require their parking lot to be closed for the duration of the work?
- A4: The school is aware of the work and potential for closures of the parking lot. Refer to changes in Substantial Performance date in Addendum 2. Work may be scheduled outside of the school year to minimize impacts and safety concerns.
- Q5: Project Location S-MA50014578 – Is within an ongoing construction site. Has the City or AECOM coordinated with the General Contractor for this project and what is the expected completion date for their scope of work allowing the CIPP rehabilitation Contractor access to the site?
- A5: At the time of writing this response, no known schedule conflicts are perceived with the ongoing construction on the St. Vital Bridge.
- Q6: Has the resident for Segment S-MA70019662 been notified of the upcoming work? Will AECOM be responsible for coordinating access within the private property?
- A6: The resident was contacted earlier in 2023 during site inspections. Notices and coordination will be completed by AECOM prior to the work commencing.
- Q7: It is understood that pipe ID S-MA70019662 was rehabilitated as part of the 2020-2021 Outfall Program. The CCTV currently provided is from 2017. Can the most recent CCTV that was taken from the 2020-2021 Outfall Program be provided?

A7: Panoramic MH inspections were completed in summer of 2023 of both the US and DS MH's. Based on the panoramic inspections completed it would appear that S-MA70019662 was not previously rehabilitated as a part of the 2020-2021 Outfall Program.

AECOM followed up upon receipt of this question and there are no known records suggesting that S-MA70019662 has been rehabbed. If during the Work, it were to be discovered that some form of rehab was performed on this asset that would impact lining, this would be a change in conditions.

The two panoramic MH inspections from 2023 can be provided upon request. No additional CCTV video is available.

Q8: Is there CCTV available and can it be provided for the segment upstream from S-MA70019662?

A8: CCTV is available for S-MA70019662 and will be provided upon request.

Q9: Project Location S-MA50017485 – The upstream MH S-MH50014198 appears to be within the bus lane where the school buses line up to drop off and pick up students. Is the school aware that for the duration of the work at this project location the bus lane will need to be closed and their buses will need to use an alternate location for student pick up and drop off?

A9: AECOM will communicate with the school prior to Award of the Contract. Per E5, a minimum of 10 business days prior to lining works required to coordinate re-routing of buses with traffic management. Refer to changes in Substantial Performance date in Addendum 2. Work may be scheduled outside of the school year to minimize impacts and safety concerns.

Q10: Project Location S-MA50017485 – Upon site investigation it appears that there is a force main discharging into S-MH50014198. Can the City and/or AECOM confirm this? If there is a force main discharging into this MH can the following additional information be provided:

- Where is the pump station located?
- Can the pump station divert the flows to an alternate location and for what duration or how long can the pump station be turned off?
- What is the maximum flow rate from the pump station based on all pumps running at maximum flow rate?
- Can the pumps at the pump station be turned on to run constantly without turning on and off? If so, what is the flow rate when they're mechanically turned to run steadily?

A10: It is confirmed that a 600 mm diameter force main discharges into S-MH50014198. Flows come from the Mager Pump Station located at 5 Mager Drive W.

AECOM is currently inquiring about the remainder of the questions and will address in a subsequent Addendum.

Q11: Due to the heavy flows and safety concerns with man entering can Segments S-MA50017468 and S-MA50017485 measurements be taken at the U/S and D/S manhole interfaces? As these are pre-cast segments the dimensions should be consistent throughout.

A11: Measurements taken at the U/S and D/S interfaces for these assets are sufficient. CCTV from cleaning operations may be used to confirm consistent cross section throughout.

Q12: Project Location S-MA20016571 – Due to the location of S-MH20014905 being directly in the middle of the intersection it will be impossible to ensure the safety of the public and crews by keeping Vaughan St open. Furthermore the City will have to allow for the 2 left lanes along Portage Ave at S-MA20016571 to be closed to allow for a safe working space. Transit routes will need to be rerouted for the duration of the MH modifications and CIPP installations to allow for a safe buffer zone. Due to these work zone constraints, can the traffic restrictions for segment S-MA20016571 be changed to allow the above closures and the closure of Vaughan St at Portage Ave?

A12: Traffic control for this site is being reviewed and will be addressed in a subsequent Addendum.

Q13: Section 7.3€ states that the successful contractor shall provide a minimum of 2.75 pumping capacity for Combination Sewer Flows based on the Average Day Flows. As expressed in Section E7.3.2(b) Appendix D has Average Dry Weather and Average Wet Weather Flows. Please confirm Section 7.3(c) refers to the Average Dry Weather Flow. If not can the Average Day Flows be provided?

A13: Appendix D does not provide Average Wet Weather Flows. Average Dry Weather Flows (ADWFs) and Peak Dry Weather Flows (PDWFs) have been provided. The successful contractor shall provide pumping capacity for Combined Sewers based on a minimum of 2.75 x ADWF.

Q14: Can a clause in Section 7.3.4 be added to clarify what amount of forecasted weather would cause a work stoppage. As stated in Section 7.3.4(d) the City is not responsible for costs associated with weather related delays. This leaves the Contractor heavily exposed to risk. Suggest that a clause be added allowing for work to proceed with up to and including 5mm of forecasted rain. If the City is not willing to add this clause, the Contractor needs to know what amount of forecasted weather relating to percentage chance of rain and amount of rain will cause a work stoppage. Or can a daily rate be added to the Form B: Unit Prices for work stoppage based on forecasted weather delays?

A14: Refer to Addendum 2. A payment clause has been added to Form B.

Q15: Can the substantial completion of June 28, 2024, be amended to September 15, 2024? Based on the scope of work with majority being large diameter and combined sewers, the project would not start until the spring runoff is complete and civil contractors are able to begin excavation work without winter conditions.

A15: Refer to Addendum 2 revisions to specifications.

Q16: Can the 65 consecutive working days be increased to 85 working days? Due to the requirement of civil work associated with the CIPP rehabilitation, multiple project location sites across the city and some within schools, 65 days is not feasible to complete the project.

A16: Refer to Addendum 2 revisions to specifications.

Q17: E10.7.11(e) states in larger sewer sizes where it is not possible to provide a full diameter confined test sample... the contractor shall cut a sample directly from the installed CIPP Liner. How will the requirement for determining whether a cut out sample be determined?

A17: Only upon request of the Contract Administrator shall direct cut samples be taken. Direct cut samples will only be requested if unable to reconcile liner designs based on plate samples taken and all other options are exhausted for assessing design intent is met.

Q18: If required, please confirm if there is a minimum thickness to length ratio for cut out samples from unreinforced liners?

A18: Cut samples from unreinforced liners are to be sized appropriately to accommodate ability to produce machined samples for testing with a 16:1 span to depth (liner thickness) ratio.

Q19: Would like to request a 2-week extension to the closing date as additional time is needed to review the responses to the questions above, obtain subcontractor pricing and allow adequate time for follow up questions if needed based on the responses.

A19: Refer to Addendum 1.

- Q20: Please define process for carrying out determining 'whether any localized thickening is required for imperfections in the host pipe as defined in ASCE MOP 145' as identified in E10.5.6(a)(iii). This is required to ensure that all assessments and tenders are based on same information.
- A20: Refer to response to Q21. Imperfections in the host pipes to be assessed visually based on pre-lining and/or pre-design inspections completed. Refer to 5.2.5 of ASCE MOP 145 for examples of imperfections that may impact design thickness.
- Q21: No imperfections or deficiencies are apparent in the provided CCTV files. Please provide apparent deficiencies for assessment during the tender preparation.
- A21: No imperfections identified at the time of Tender issuance. If conditions changed or worsened since issuance and imperfections are identified during review of pre-lining and/or pre-design inspection(s), this would be a change in conditions.
- Q22: Form B: Prices, Item 12. Provisional, a) Installation of New Manhole – Please provide information to where this New Manhole is located, the diameter, depth, utilities within the area, and size of lines connecting into the manhole with flows. If there is no specific location, please explain how a Contractor is to price this Provisional item or what assumptions are to be made with everything being an unknown?
- A22: Refer to Addendum 2 revisions to Form B Item 12.