



## 936-2024 ADDENDUM 2

### WINDSOR PARK 2025 LIFT STATION UPGRADES

#### URGENT

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

ISSUED: 2024-12-13  
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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

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**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.**

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#### PART D – SUPPLEMENTAL CONDITIONS

- Add D3.4 to read: The Contractor shall supply and install all materials and equipment shown on the construction drawings and specifications unless otherwise indicated as existing or supplied by others. All materials and equipment shall be new.
- Add D3.5 to read: The Contractor will demolish all materials and equipment shown on the demolition drawings and specifications unless otherwise indicated to remain.
- Add D5.1 (ss) to read: “Demolish” means to disconnect, remove from site and properly dispose of materials/equipment at an approved disposal.

#### PART E – SPECIFICATIONS

- Revise: E30.5 (a): All vibration and temperature instruments associated with the pumps, drive shafts and motors shall be supplied and installed by the pump supplier. **The instruments shall be mounted directly on the bearings.** Pump supplier shall provide a low voltage control enclosure mounted on each pump and each motor for terminating instrument **field wiring**. Instruments shall be wired to terminal blocks within control enclosures.
- Revise: E30.5 (c): All upper bearing instruments (vibration and temperature) **wiring** shall be brought to a low voltage control enclosure located on the motor (separate from the power enclosure). The control enclosure shall not include any 600 VAC power connections within.
- Revise: E30.5 (d) (viii): Manufacturer: IMI Sensors (PCM Piezotronics). Bently Nevada will be considered provided it meets the requirements above.
- Revise: E37.1.1: The following generators are approved for bidding and must comply with the specifications.
- Revise: E37.1.1 (b): Caterpillar DG300GC
- Add: E37.1.1 (c): Rehlko 300REZXC

- Add: E37.1.1 (d): Cummins C300N6
- Add: E37.1.1 (e): Approved Equal in accordance with B7.
- Add: E37.1.2: The new generator can only be replaced starting November 1, 2025 and must be back in service by February 28, 2026. Should the generator not be back in service by February 28, 2026, the Contractor will be required to supply a 300 kW mobile generator until the new generator is in service.

## **APPENDIX H: DRY WELL PHOTOS**

Add 936-2024\_Addendum\_02-Appendix\_H-Dry\_Well\_Photos

## **QUESTIONS AND ANSWERS**

- Q1: Is there a preference for tying bypass force mains into NEWPCC or SEWPCC force main?
- A1: Contractors will be able to tie into any force main or both if they choose. Coordinate with the City and the Contract Administrator regarding the shut-down of either force main, and which force main the bypass pumping system is connecting to.
- Q2: Will new cabling added as fire hall project affect the 1800mm bypass manhole installation?
- A2: The new cabling added from the fire hall project comes in from the east wall near the main entrance stairs. If there is cabling found to be in the way when the new 1800mm manhole installation, the costs to reroute the cabling will be applied towards the Additional Work Allowance.
- Q3: Are there any soil reports available?
- A3: No, there are no soil reports available at this time for the Lift Station area along with the Generator Building area.
- Q4: Is the 1800mm bypass manhole to be removed after bypass pumping is completed?
- A4: No, the 1800mm bypass manhole will be a permanent installation to allow the City to perform future bypass pumping. The Contractor will be required to install a permanent plug for the manhole line connection going to the 1500mm sewer line. After bypass pumping is completed, the Contractor will also be required to drain and clean the 1800mm bypass manhole so there is no leftover wastewater sitting in the manhole.
- Q5: Will a list of companies that attended site visits be released as this may help to get pricing from subcontractors?
- A5: No, a list of company names that attended the site visits will not be released. This contract requires any Contractor submitting a bid to attend at least one (1) site visit otherwise their bid will be determined to be non-responsive. Releasing the company names that attended the site visits could provide bidders with an advantage of knowing which competitors may not be able to bid this contract.
- Q6: Can there be a separate Form B line item for site security? There have been issues on other jobs with break-ins and vandalism that have resulted in extra security measures required.
- A6: There have not been any break-ins and/or vandalism experienced at the station by the City. The property is in the open and next to a 24-hour emergency services fire hall station. Should there be any issues once

construction work starts, any security costs such as installing cameras, will be eligible to be applied towards Additional Work Allowance.

Q7: Can the Generator Building be demolished with the Generator remaining operational outside of the winter window?

A7: Yes, the Generator Building can be demolished in sections provided the Generator remains operational outside November 1, 2025, to February 28, 2026. The Contractor will be required to provide a temporary cover for the generator to protect the generator from outdoor elements and ensure the site is secured while Contractor representatives are not on site.

Q8: Does Civil carry the costs for the Stainless-Steel piping along with tie-ins for bypass pumping?

A8: Stainless Steel piping and bypass pumping tie-ins work costs are to be carried under Process Mechanical Work as listed in Tender sections E36.2 and E36.3.

Q9: What is being done with the existing generator after being taken permanently out of service?

A9: The Contractor will be required to demolish, remove and properly dispose of the existing generator. Refer to mechanical demolition drawing 1-0219L-M0001-001-00 and electrical demolition drawing 1-0219L-E0001-001-00.

Q10: What is the size of existing generator?

A10: The existing generator size is 325 kW as indicated on electrical drawing 1-0197L-E0010-001-00.

Q11: What work is in the vault room where the existing BellMTS cabling goes through?

A11: All electrical equipment and cabling (except for BellMTS cabling) is being removed. Storm Pump piping and valves are being demolished. The existing BellMTS cabling will be required to be properly sealed and supported from the inside to prevent the ingress of water. Please refer to Lift Station demolition and construction plan drawings for all work to be done.

Q12: Does the 1500mm sewer line contain flowing wastewater that would affect installing the offline 1800mm bypass manhole line connection?

A12: Yes, during the December 4, 2024 site visit, a picture of Manhole MH50004849 (see drawing 1-0197L-C0001-001) shows wastewater flowing in the 1500 mm sewer. See Appendix H. The sewer appeared approximately half-full. The sewer is hydraulically connected to the wet well active volume. This sewer is expected to have wastewater flowing in the line at all times of the year. To take the 1500mm sewer line offline for installing the connection line, the Contractor will need to build a temporary weir at manhole MH50004849 on Lift Station drawing 1-0197L-C0001-001. The weir will need to be removed by the Contractor once the line connection work is completed.

Note: The first manhole located on the sidewalk NE of manhole MH50004849 that was opened showed a very full manhole. It was determined after the site visit that this manhole was a Land Drainage Manhole that is separate from the 1500mm wastewater sewer.

Q13: Are you reviewing for proposed equals on lighting, lighting control and emergency lighting?

A13: The lighting equipment proposed equal submittals will be reviewed during the shop drawing review stage.

Q14: Do the two 600mm sewer pipes entering the wet well from the south join in a 'Y' at the upstream manhole MH50004812 (to the south) or between the manhole and wet well.

A14: It is understood that they join in a chamber at the base of the manhole. See Appendix A and Appendix H.

Q15: Can the Caterpillar DG300GC, Cummins C300N6 along with Rehlko 300REZXC be acceptable generator alternatives?

A15: Cutsheets for these generators appear to meet the general requirements however the Contractor is responsible for ensuring proposed generator meets all specifications. See Clause E37.1.3 above.

Q16: Will you accept Bently Nevada vibration sensor?

A16: Bently Nevada vibration sensor is acceptable provided it meets requirements in E30.5 (d). This requires a vibration transmitter that is 4-20mA loop powered, a single sensor includes both XY directions, can be mounted directly to the bearing without any electrical boxes as specified in E 30.5 (d). See revised clause E 30.5 (a), E 30.5 (c), and E 30.5 (d) (viii) above.

Q17: What is the hazard classification Class and Division for the motor and pump rooms?

A17: Pump Room and Motor Room are both classified as non-hazardous. Refer to electrical drawing 1-0197L-E0013-001

Q18: Do you have an existing layout drawings for the pumps and motors?

A18: Refer to mechanical drawings 1-0197L-M0001 through 1-0197L-M0008 (revision 00 for demolition and revision 01 for new work).

Q19: Will this pumping system ever be running the lift pump motors beyond the rated speed?

A19: No, The intent is to never run these pumps/motors beyond the rated speeds at a maximum of 60 Hz.

Q20: Are the 1-ton and 2-ton hoists manual or electric?

A20: Manual.

Q21: How wide is the cradle from the 1500mm sewer to the 1800mm bypass manhole? There doesn't appear to be much details on the this.

A21: Detail 3 on 1-0197L-C0002 specifies that the new concrete collar is 1200x1200x300.

Q22: Electrical drawings indicate the cable from the 3 VFD's in the Generator Building to the Lift Station are to be 3c #1 AWG Teck 90 1kv VFD rated. My suppliers are telling me #1 AWG VFD rated cable is not available, it jumps from #2 AWG to 2/0 AWG. Which size would you like us to use?

A22: The cable sizes in the drawings are intended as a minimum, the contractor shall include the designed cable size or larger. In this case, the 2/0 AWG cable would be required.

Q23: Which waterproofing solution is required for the exterior, below grade, surfaces of the lift station – and which walls are to receive it?

1. Wall types within structural drawings indicate that all new walls are to receive a Blueskin membrane.
2. Structural general notes indicate that all concrete exterior surfaces below grade are to receive 2 coats of bitumen.
3. Spec indicates a cementitious and reactive waterproofing system, but isn't clear where this is being applied.

A23: Apply Blueskin membrane where noted on drawings. Exterior concrete surfaces below grade to receive two (2) coats bitumen where Blueskin is not applied. Cementitious waterproofing is not required.

Q24: Is the Patterson Non Clog F14C an acceptable pump alternative?

A24: The Patterson Non Clog F14C is not an approved alternative as it does not meet the below specifications:

- Speed of 720 RPM is non-compliant with E30.3.1 (b).
- Impeller trim ratio is non-compliant with E30.3.1 (i). The City has had issues with trimmed impellers on recent projects that results in pumps clogging more frequently. Therefore the trimmed impeller diameter is being limited to 0.875 of published full size diameter to mitigate clogging/ragging concerns.
- The discharge diameter of 350mm is non-compliant with E30.3.1 (k). There is limited room in pipe system to install a reducer or wider pipe bends, and larger pipework limits required safety clearances and room for maintenance.
- The base is not compliant with E30.3.19 (a)