

QUESTIONS AND ANSWERS

- Q1 721-2024_Form_B-Prices (Item 3.31 Drilled Tie Bars (15m)): Please clarify if the drilled tie bar is 15 meter long or meant to be 15mm?
- A1 Please note on 721-2024_Form_B-Prices Item 3.31 Drilled Tie Bars (15m) should be (15M) for 15M bars. There are no drilled tie bars that are 15m (metres) long. Please refer to updated Form B included in Addendum 8.
- Q2 721-2024_NMS_Format_Specifications (Section 40 05 13.01 DETAILED PIPING SPECIFICATION / page 1 of 6): FOA piping is called out as pipe material FRP - interior, FRP - exterior, heat traced. The piping schedule does not define the requirements for the FRP piping. Please provide a detailed piping specification for the FOA piping, also laid out in the drawings. Ex: drawing 721-2024_Drawings_Part 2 Page 30 - PGAD-P312. No pipe tag or spec referenced.
- A2 Please refer to added clause 2.4.4.5 Section 44 31 10 for the Acceptable Manufacturers for FRP requirements.
- Q3 In reference to Section 40 05 24 Flow Control Valve, please confirm if this is an automatic flow control valve (Cla-Val) or a modulating Plug Valve. If this is an automatic flow control valve, please provide flow data to size the valve.
- A3 This is an automatic flow control valve. The maximum flow with a fully open valve would be around 12 L/s. The valve shall control the flow at 2-5 L/s.
- Q4 In reference to Section 40 05 24 Ball Valve On/Off Valve for Process Lines for wastewater and sludge, please see request for equal: Manufacturer: BRAY Model Number: Flow-Tek F15 Specifications as below.
- A4 Approved. Please see 721-2024_Addendum_8_NMS Specification- Section 40 05 24.
- Q5 In reference to Section 40 05 24 Ball Valve General service valve for process air, process liquid and utility lines, please see request for equal: Manufacturer: BRAY Model Number: Flow-Tek S80 Specifications as below,
- A5 Approved but coordinate with contractor for flange or threaded requirement. Please see 721-2024_Addendum_8_NMS Specification- Section 40 05 24.
- Q6 In reference to Section 40 05 24 Check Valve for non-potable water and Flushing water, please see request for equal: Manufacturer: Val-Matic Model No. : 7800 Swing Check Valve
- A6 Approved but coordinate with contractor for flange or threaded requirement. Please see 721-2024_Addendum_8_NMS Specification- Section 40 05 24.
- Q7 In reference to Section 40 05 24 Air Relief Valve Non-Potable Water, please see request for equal: Manufacturer: Val-Matic Model No: 38 Series
- A7 Approved. Please see 721-2024_Addendum_8_NMS Specification- Section 40 05 24.

- Q8 In reference to Section 40 05 24 Pressure Regulating Valve – Air, please confirm the service if it is water or air, as specified manufacturer's PRV is suitable for water service.
- A8 The PRV is to be installed on a compressed air service line. Acceptable Manufacturers/Suppliers listed in Section 21 05 01 Clause 1.18.5.
- Q9 Please clarify, it calls for us to get the cost directly from the suppliers. EECOL seems to be under the impression they will price the electrical contractors who will price us. Could you clarify the Owner/Consultants intent?
- A9 Contractors can reach out to EECOL for assistance and enquiries as needed per E6.7.3.
- Q10 Section 44 31 10 Odour Control Ductwork and Accessories calls for HDPE and FRP ducting. The ducting underground is specified to be HDPE; however, can you confirm if the ducting within the Fan room and the ducting outdoors entering the carbon units can be either HDPE or FRP? If it can be FRP where does the HDPE ducting start and stop? Please clarify.
- A10 Underground FOA piping shall be HDPE. FOA ducting inside the building shall be FRP. Piping outside can be HDPE but has to be insulated and heat traced.
- Q11 Section 44 31 00 Clause 1.3.1.11 Can you provide more details about the fan sizing calculations? Are you requesting that we calculate the ducting losses? Can these calculations be done by a Professional Engineer in Ontario or British Columbia?
- A11 Fan sizing calculations are the responsibility of the supplier. The required airflow is show on the P&IDs. As indicated in clause 1.3.1.11. The Professional Engineer must be licensed to practice in the Province of Manitoba, the engineer may be located elsewhere but needs to be registered in Manitoba.
- Q12 In reference to Section 23 72 00 Engineered Air, Air Handling Units Type: Energy Recovery Ventilators, please see request for equal: Manufacturer: Bousquet
- A12 Accepted as equal, please refer to Section 23 72 00 Air-to-Air Energy Recovery Equipment clause 2.1.1.1.4
- Q13 Please clarify if the hoists are NEMA 4X or category 1 and 2 for wet and corrosive location?
- A13 The panel on the hoist shall be rated for NEMA 4X.
- Q14 For the hoists over pump in the fan room there are two hoists on the same monorail beam. Do you want one radio per hoist, or one radio that will control both hoists and lift in tandem. It goes A, B, A&B. will you require anti-collision on the hoists?
- A14 One radio per hoist. The area in fan room is CATEGORY 2, ZONE 2 GROUP IIA & GROUPD IIB, provide hoist per area classification.

- Q15 Provide clarification regarding the card access system. With the Genetec system, we require clarification as to whether this will be a standalone system, or is it to be connected to the other City servers. If it is to be connected, what is the system ID that it is to be connected to?
- A15 The card access system will be connected to City's network, refer to drawing 1-0101-ESCY-P001 for further details.
- Q16 Referring to the detailed process valve specification sheet, PV (40 05 24); the lining is specified as 'abrasion resistant'. What exactly are you asking for? Is the standard epoxy coating suitable? Or, are you looking for an internal rubber lining?
- A16 Epoxy Coating is acceptable.
- Q17 Which plug valves shall be classified as FCV (flow control valve)? The PV, and FCV detailed spec sheets both have 'electrical' in the actuator description.
- A17 FCV is the automatic modulating flow control valve. FV is an open/close valve.
- Q18 For the existing Eaton MCC, do you have more info on the existing buckets referenced in Note 5 to what the final breaker sizing will be?
- A18 Breaker sizes are as shown on the SLD drawings 1-0101-ESLD-P002 and 1-0101-ESLD-P003.
- Q19 Is it required that Schneider must do all the PLC and HMI programming? I did not see this mentioned in the specification. The specification does mention that Schneider shall provide the following services:
- E6.5.2 MCC – Start-up services, but not commissioning
 - E6.6.1(a)ii PLC Training 2 sessions 1 day each
 - E6.6.2(a)ii MCC & VFD Training 2 sessions 6 hours each
- A19 PLC and HMI programming is not standardized to Schneider Electric, it is optional to consider Schneider Electric. See specs section 40 94 43 for integrators requirement.
- Q20 In E6.5.2 it states that the VFD 5 year warranty is to be purchased from Dan Schmautz at Schneider, and in section E6.7.3 it lists that the 5 year warranty is to be purchased through EECOL?
- A20 Per section E6.7.1 Goods to be procured via EECOL Electric (EECOL) Winnipeg, as Schneider's High Tech Automation Distributors.
- Q21 On drawing 1-0101-SGAD-P006, SNOW DRIFT LOADING DIAGRAM, there is an aluminum guardrail called out on the roof which is not shown anywhere else on the drawings. Can you clarify if this roof aluminum guardrail is in fact required?
- A21 No guardrail is to be provided.