Corporate Finance Department
Purchasing Division

721-2024 ADDENDUM 11

NEWPCC Primary Clarification Upgrade Project

ISSUED: April 08, 2025
BY: K.C. Kiesman, EIT
TELEPHONE NO. 204 430-0563

URGENT

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

THIS ADDENDUM SHALL BE INCORPORATED INTO THE BID/PROPOSAL AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS

Template Version: Add 2024-02-01

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: 721-2024_Addendum_8_Form_B-Prices **with 721-2024_Addendum_11_Form_B-Prices**. The following is a summary of changes incorporated in the replacement Bid/Proposal Submission:

Revision to unit of measure for Item 14.

PART B – BIDDING PROCEDURES

Revise: B2.1 to read: The Submission Deadline is 12:00 noon Winnipeg time, **April 16, 2025.**

Delete: B10.1.1
Note: for clarification, taxes are as stated on Form B Prices – the "Total Bid Price (GST extra)". MRST SHALL BE INCLUDED in the total bid price.

PART D – SUPPLEMENTAL CONDITIONS

Revise: D21.3 to read: The City intends to award this Contract by **May 28, 2025.**

Revise: D21.4 to read: The Contractor shall not commence the Work on the Site before **June 20, 2025.**

Revise: D22.1 to read: The Contractor shall achieve Substantial Performance by **June 25, 2027.**
Revise: D23.1 to read: The Contractor shall achieve Total Performance by **August 25, 2027.**

DRAWINGS

Replace:	721-2024 Drawing 1-0101-PPID-P502-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-PPID-P502-001 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P002-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P002-001 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P005-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P005-001 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P007-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P007-001 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P007-002 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P007-002 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P007-003 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P007-003 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P010-005 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P010-005 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P016-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P016-001 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P016-002 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P016-002 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P016-003 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P016-003 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P016-004 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P016-004 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P017-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P017-001 R01
Replace:	721-2024 Drawing 1-0101-SGAD-P018-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-SGAD-P018-001 R01
Replace:	721-2024 Drawing 1-0101-SSCH-A001-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-SSCH-A001-001 R01
Replace:	721-2024 Drawing 1-0101-AGAD-P002-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-AGAD-P002-001 R01
Replace:	721-2024 Drawing 1-0101-BGAD-P001-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-BGAD-P001-001 R01
Replace:	721-2024 Drawing 1-0101-MPID-P601-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-MPID-P601-001 R01
Replace:	721-2024 Drawing 1-0101-MSCH-P601-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-MSCH-P601-001 R01
Replace:	721-2024 Drawing 1-0101-EMCL-P601-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-EMCL-P601-001 R01

Replace: 721-2024 Drawing 1-0101-EMCL-P602-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-EMCL-P602-001 R01

Replace: 721-2024 Drawing 1-0101-EMCL-P603-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-EMCL-P603-001 R01

Replace: 721-2024 Drawing 1-0101-EMCL-P604-001 R00 with 721-2024_Addendum_11-Drawing 1-0101-EMCL-P604-001 R01

Replace: 721-2024 Drawing 1-0101-ESLD-P708-001 R00 with 721-2024_Addendum_11-Drawing 1-0101- ESLD-P708-001 R01

Replace: 721-2024 Drawing 1-0101-ESLD-P709-001 R00 with 721-2024_Addendum_11-Drawing 1-0101- ESLD-P709-001 R01

NMS SPECIFICATIONS

Section 01 79 00 Demonstration and Training

Revise: 1.5.9 to read: Acceptable videographer is **Dynacom Communications (George Gamvrelis, (204) 895-8080, dynacom@mts.net)** or approved equal in accordance with B7.

Section 07 52 00 Modified Bituminous Membrane Roofing

Replace: Section 07 52 00 with **721-2024_Addendum 11_ NMS Specification - Section 07 52 00 - R01**

Section 07 81 23 Intumescent Fireproofing

Add: 2.2.1.1. **.6 CAFCO SprayFilm WB 3**

.7 UL-N614

.8 UL-X650

.9 UL-Y614

.10 UL-X649

Section 40 05 25 Valve Schedule

Replace: Section 40 05 25 with **721-2024_Addendum 11_ NMS Specification - Section 40 05 25 - R01**

Section 23 07 13 Duct Insulation

Replace: Section 23 07 13 with **721-2024_Addendum 11_ NMS Specification - Section 23 07 13 - R01**

Section 31 50 00 Excavation Support Systems

Revise: 1.1.9 to read: Vibration monitoring for excavation support systems shall be performed as specified within Section **31 62 16.16.**

Revise: 1.4.3 to read: Retain the services of an independent vibration consulting firm meeting the requirements as specified within Section **31 62 16.16.**

Revise: 1.4.4 to read: The peak particle velocity for pile installation, or other vibration-inducing operations, shall meet the requirements as specified in Section **31 62 16.16.**

Section 31 62 16.16 Steel H Piles

Replace: Section 31 62 16.16 with **721-2024_Addendum 11_ NMS Specification – Section 31 62 16.16 – R01**

Section 40 95 13 Control Panels

Revise: 1.7.1 to read: The Contractor shall warrant that all materials and equipment furnished under the Contract are in good working order, free from defects, and in conformance with system specifications. All installed equipment shall conform to the manufacturer's official published specifications. The warranty shall begin at the system acceptance date and remain in effect for a period of **five years** from that date. The Contractor shall agree to repair, adjust, and/or replace (as determined by the Contract Administrator to be in its best interest) any defective equipment, materials, or other parts of the system at the Contractor's sole cost. The City will incur no costs for service or replacement of parts during the warranty period of five (5) years. All third-party warranties shall be passed through from the Contractor to the City.

QUESTIONS AND ANSWERS

Q1 Within 40 05 25 PROCESS VALVES-SCHEDULE page 6 of 6 lists multiple gate valves required for the instrument air system. Question regarding the gate valves: is the 20mm and 75mm correct? If so, please provide a gate valve specification for these Instrument Air gate valves.

A1 Please see revised 721-2024_Addendum 11_ NMS Specification - Section 40 05 25 - R01 included in Addendum 11.

Q2 Specification 07 52 00 Item 2.4 calls for a base sheet vapour retarder, however the executions says to mop 2 ply felt on item 3.5.1. Please confirm that this is not applicable.

A2 Please refer to updated 721-2024_Addendum 11_ NMS Specification – Section 07 52 00 – R01 included in Addendum 11.

Q3 Specification 07 52 00 Item 2.13 calls for a filter fabric. This would appear to be redundant and not applicable for the roof system specified. Please clarify.

A3 Please refer to updated 721-2024_Addendum 11_ NMS Specification – Section 07 52 00 – R01 included in Addendum 11.

Q4 Specification 07 52 00 Item 3.6 has some layers of insulation mopped and some adhered with glue. Please confirm all layers can be glued as per industry standard.

A4 Please refer to updated 721-2024_Addendum 11_ NMS Specification – Section 07 52 00 – R01 included in Addendum 11.

Q5 Drawing 1-0101-BGAD-P001 The wall ratings, the 1-hour airtight is a light gray and not very clear on the drawings which ones they are?

A5 Please refer to updated Wall Separation Legend on 721-2024_Addendum_11-Drawing 1-0101-BGAD-P001-001 R01 which clarifies the fire separation FRR.

Q6 Drawing 1-0101-BGAD-P001 The wall ratings, it only Identifies the 2 hour as 3 white lines and one dark. What is the hourly rating for the one dark line and one white line?

A6 Please refer to updated Wall Separation Legend on 721-2024_Addendum_11-Drawing 1-0101-BGAD-P001-001 R01 which clarifies the fire separation FRR.

Q7 Drawing 1-0101-BGAD-P001 does the floor above M-102 electrical room require a rating? If so 1 or 2 hours?

A7 Refer to bottom left corner of Building Code Analysis, on Drawing Sheet 1-0101-BGAD-P001, for reference to Electrical Room FRR requirement to be 1HR for ceiling.

Q8 Do HSS Columns in rated walls require Intumescent coating?

A8 Refer to 721-2024_Addendum_11-Drawing 1-0101-BGAD-P001-001 R01; Architectural Life Safety Plan identifies all required fire separation locations and ratings. The columns do not require a FRR per NBC 3.2.2.87, this building is classified as non-combustible. General Contractor is responsible to review all plans, sections and details for the required fire separations and locations, including firestop details per drawing sheet 1-0101-BGAD-P016 for locations of intumescent coatings.

Q9 On the main floor plan BGAD-P002-001 on grid line 1', below gridline E, the stair wall shows wall type EW5 (steel stud). The cut through of this section G/BGAD-P009-003 leads you to 7/BGAD-P012-002, which then leads you to 4,5,&6/BGAD-P015-001, which have notes pointing to this wall saying "CMU wall". Should this wall be steel stud or CMU?

A9 Wall along Gridline 1' and between F and C, is both wall types: EW3 is portion North of HSS column as masonry backup wall, and EW5 is portion South of HSS column as metal stud back up wall as this is the location of structural cross bracing. Sections are correct pending which sided of the HSS is being cut by the section line. Refer also to Structural drawings for all cross bracing locations.

Q10 The Main Floor Plan on BGAD-P002-001, grid line 1, between grids K & F, show wall type EW1 (8"CMU), but the structural drawings show this as MW3, which seems to be a 10"CMU based on the other location it is shown... though it's not specified very well in the masonry schedule SSCH-A001-001.

a.) Should this wall be an 8 or 10"CMU?

b.) and can wall type MW3 be clarified (width of block & vertical reinforcement)?

A10 Please refer to updated structural drawings in 721-2024 Addendum 11. Walls with Architectural wall type EW1 are to be Structural masonry wall type MW1.

Q11 SGAD-P007-001 through 003 (Framing Elevations) are throwing me off. In some areas they are showing vertical core fills as per the masonry schedule (SSCH-A001-001) and in other areas there will be double the amount. For example MW1 is supposed to have bond beams/vertical reinforcement/filled cores at 2400 o/c. but in many areas of the framing elevations, it is shown at 1200 o/c. Please clarify what I should be following.

Would it be possible to get an updated structural wall schedule with accurate information and the structural floor plans marked with the correct wall types?

A11 Please refer to updated structural drawings in 721-2024 Addendum 11. Provide bond beams at 2400 mm on centre, unless noted on elevations that additional bond beam is required for angle support.

Q12 The room finish schedule states the floor finishes simply as Formula. The Concrete & Masonry Coating spec 09 97 23.2.1.4.1 states Formula 10 on all concrete floors, curbs, pads. except the Chemical Room, which is to receive Formula 30. Addendum 6 deleted Formula 30, so are ALL floor surfaces to receive Formula 10?

A12 Confirmed, Formula 10 to be used on all surfaces as specified.

Q13 In regards to section 07 81 23 Intumescent Fireproofing, there are some notes on a few details within drawings 1-0101-BGAD-P015 & 16, however this doesn't provide a complete picture of the extent of intumescent fireproofing application or the rating required. This was an RFI that remained somewhat obscure even after an addendum was issued when this project was tendered in 2023, please provide a detailed description with marked up structural drawings indicating where fireproofing is required and the rating.

A13 Refer to Drawing Sheet 1-0101-BGAD-P001, Architectural Life Safety Plan, for all fire separation locations and required ratings. Intumescent coating applies to all exposed structural steel within these assembles. Refer to applicable drawings for these locations and assemblies; quantities will not be provided. Refer to also bottom left corner of Building Code Analysis, on Drawing Sheet 1-0101-BGAD-P001, for additional reference to Electrical Room FRR requirement to be 1HR for ceiling.

Q14 After reviewing the structural steel for buildings spec 05 12 23 and metal fabrications spec 05 50 00, the main theme I'm interpreting is both specs calling for a galvanized finish. Are all structural steel and metal fabrications receiving galvanizing to remain a galvanized finish? It's not uncommon to see stair handrails, safety guardrails, bollards, monorail beams painted safety yellow. Please if any structural steel or metal fabrications require a painted finish.

a. If monorail beams are to be painted safety yellow, please advise on member designations for the monorail beams.

A14 All Metal Fabrications are to have galvanized finish as per drawings / specifications, unless otherwise noted. All structural steel should be galvanized. Refer also to Specification Section 09 91 00, Part 3.6 Paint Formula for further information on paint finish types and locations.

Q15 Concerning section 21 05 50 is the owner wanting the Seismic Restraint System installed as per spec c/w engineers stamp for shop drawing submittal drawings? Even though we are not in a seismic area? If so, is this just for the new building, or where do we start and stop within the existing gallery and chamber?

A15 The design is predicated on only the New Building having the specified seismic restraint system. The assumption is that the existing building will be grandfathered and does not require the seismic restraint.

Q16 Regarding the CCTV with this project. From what I can see there are only 2 cameras showing on the plans, of which they both say terminate to plant security network recorder. Is this an existing recorder? What is the manufacturer of this recorder, and the cameras. Are licenses needed or are they already existing? As it only states terminate, are the cameras already mounted, positioned and only to be terminated? There is apparently an existing PA System, what is this system, is it a TOA device? What model of amplifier is this?

A16 Please refer to updated drawing 721-2024 Addendum 11 Drawing 1-0101-AGAD-P002-001 R01 for CCTV details. Details for PA system is provided in DWG 1-0101-ESCY-P001

Q17 B10.1.1 in the bidding procedures mentions prices do not include RST. Please confirm we are not to carry any RST on Mechanical and electrical scopes?

A17 Please refer to NOTE: for clarification, taxes are as stated on Form B Prices – the “Total Bid Price (GST extra)”. MRST SHALL BE INCLUDED in the total bid price.

Q18 Section 44 31 10 calls for a skid mounted system but the drawings only show a concrete pad. Can we eliminate the skid and just mount the vessel on the concrete pad as shown on the drawing 1-10101-PGAD-P309 Sheet 002?

A18 No, the skid is not to be eliminated. The exterior Carbon Tank Skids are to be mounted on the structural concrete slab.”

Q19 Section 23 07 13 Duct Insulation, Item 3.4.1 Ductwork Insulation Schedule: The first 2 items in the schedule are Rectangular and Round supply air ducts specified to have 50mm thick insulation.

The next item in the schedule is Supply, return and exhaust ducts exposed in space being served and are to have 25mm thick insulation.

Question: Do the supply and return ducts that are exposed in space being served require insulation or are they only being insulated within the mechanical room?

A19 Yes all supply, return and exhaust ducts that are exposed in the space being served shall be insulated with 25mm insulation as per the spec

Q20 Section 23 07 13 Duct Insulation ,item 3.4.3 Finishes to conform to the following table. The second item, Indoor , exposed within mechanical room. TIAC CODE Rectangular CRF/3, Round CRD/4.

These are finishes for outdoor insulated ductwork according to TIAC Codes.

Question: What is the finish for ductwork within the mechanical room?

A20 Rectangular shall be CRF/1, Round shall be CRD/1. Please refer to updated 721-2024_Addendum 11_ NMS Specification - Section 23 07 13 - R01

Q21 Section 23 07 13 Duct Insulation, item 3.4.3 Finishes, the third item – Indoor exposed elsewhere. TIAC codes listed herein are taped joints without any further finish such as aluminum.

Question: If ductwork is insulated outside of mechanical rooms, what is the finish if not only taped joints?

A21 Rectangular shall be CRF/1, Round shall be CRD/1. Please refer to updated 721-2024_Addendum 11_ NMS Specification - Section 23 07 13 - R01

Q22 Structural drawings call for entire stair frames, treads, railings, gratings and landing frames to be aluminum. However, member sizes used for landings and stair stringers refer to steel members. Can you confirm that all components of the stair is to be aluminum?

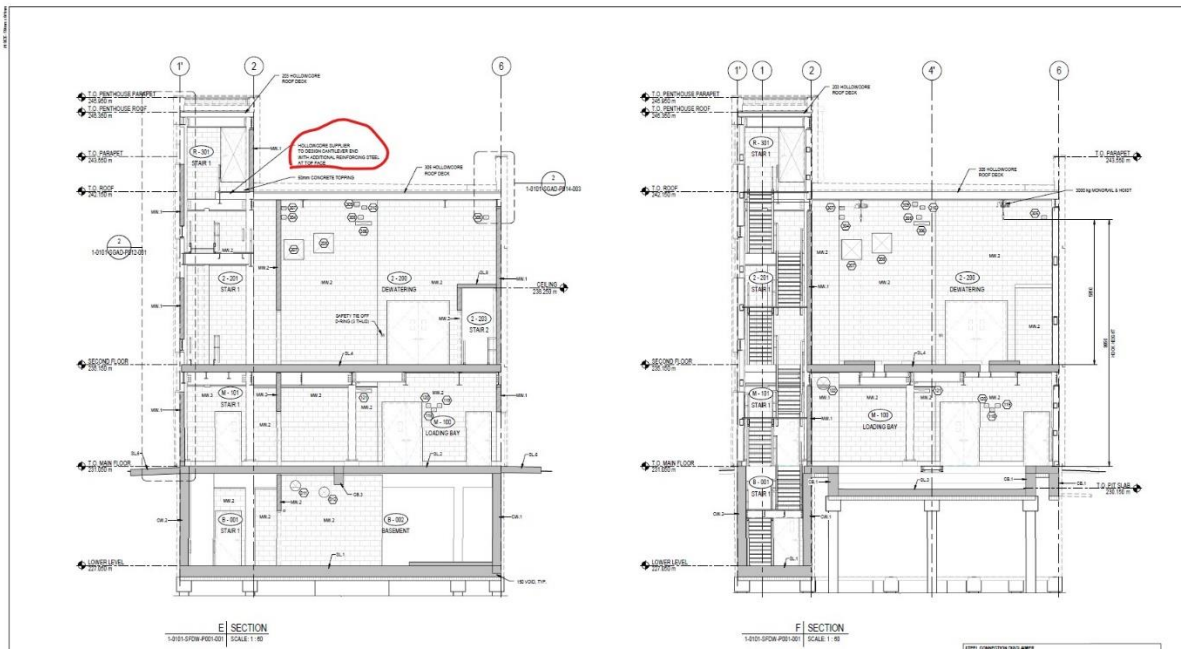
A22 Stair 1, stair 2 , stair in mech room 2-202 are to be galvanized steel. Stair in Dewatering Room 2-200 is to be aluminum.

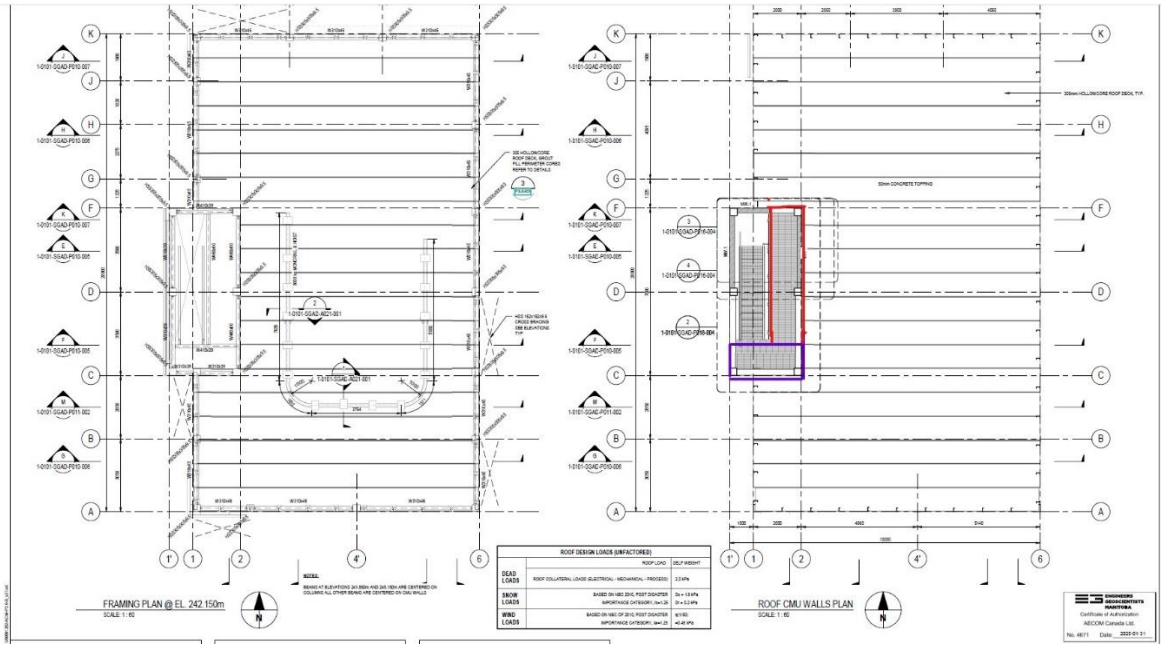
Q23 In section 31 62 16.16, it talks of top of pile steel plate connection and a splice plate for the steel pile splice connection, are there details of these connections?

A23 Steel piles are embedded directly into pile caps. Refer to drawing 1-0101-SFDW-P001 sheet 001.

Q24 We would appreciate your clarification regarding the cantilever hollowcore detail shown in Section E on Drawing 1-0101-SGAD-P010, Sheet 005. Please note that if the hollowcore does need to cantilever in the purple area, this cantilever would be subject to two stair stringer point loads that we will need to estimate.

Please review the attached drawings and the screenshots below. Could you please confirm whether the cantilever length applies only to the purple area, the red area, or both?





A24 There is no cantilevered hollowcore. All hollowcore planks to be simply supported. Please refer to updated 721-2024_Addendum_11-Drawing 1-0101-SGAD-P005-001 R01 and Drawing 1-0101-SGAD-P010-005 R01 included in Addendum 11.

Q25 The Pump Schedule states that the casing needs to be “e-coated”. These pumps are just being used for water & glycol, can you confirm if the e-coating is required?

A25 Yes, the e-coating is required.

Q26 Discrepancy between PID drawing number 1-0101-PPID-P502 and section 44 31 00-2.3.1.1. PID shows (2) motorized dampers, but the specification calls for (4); please confirm quantity. Can we assume these dampers will be located in the fan room?

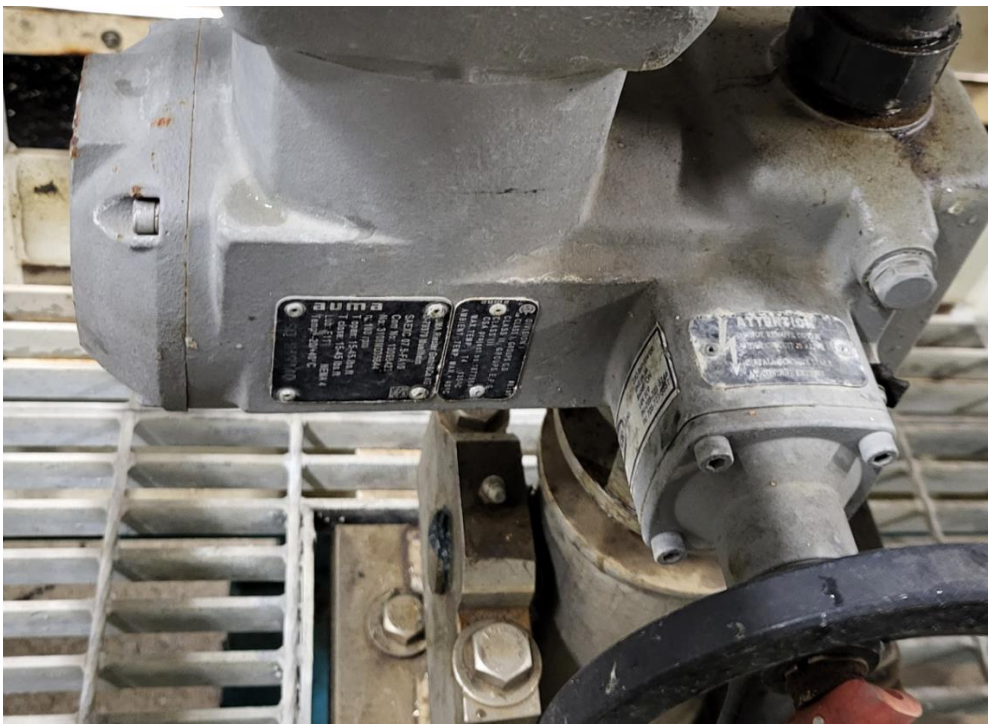
A26 Please refer to updated 721-2024_Addendum_11-Drawing 1-0101-PPID-P502-001 R01 included in Addendum 11.

Q27 In section 31 09 16.29 of the testing procedures 3.3.2, is it expected that 4 or more weeks of equipment on site, testing an unknown amount of driven steel H-beams, will be required before the bulk of the beams will be installed?

A27 The number of piles to be tested is not unknown, the spec reads “PDA test shall be performed on minimum 10% of the piles per substructure unit selected by the Contract Administrator” the contractor can count the piles and then 10% will be tested. There are local PDA testing agencies in Winnipeg. The equipment is not expected to “stay” on site, standard practice is to request PDA test form the local agency as needed.

Q28 721-2024_Drawings_Part 2 & 721-2024-Appendix_G (PDF) – Instruments, page 2 of 4: There are three (3) Rotork actuators required to be procured and mounted on three (3) existing valves (XV-P11110, XV-P11210, XV-11310, PRIMARY CLARIFIER 1,2,&3). The actuators are on P&ID 1-0101-PPID-P102-001 & instrument schedule 721-2024_Appendix_G(PDF)-Instruments, page 2 of 4. Please provide valve torque details for actuator sizing and valve top work details for mounting kit to allow vendors to price accordingly.

A28 Torque calculation is part of contractor scope when actuator is selected as per spec section 23 09 23 .11 1.4.4. however, for reference only, existing actuator nameplate is provided below.



Q29 Are the control panels supposed to have a one year or five year warranty?

A29 The control panels shall have a five year warranty. Please refer to Addendum 11 revision to NMS Section 40 95 13 Control Panels revise of clause 1.7.1.

Q30 The cable tray specification has reference to the tray types B-Line Series 24, H24 and 34 but does not tell which weight class to use. Can you provide additional information?

A30 Please refer to section 26 05 36 clause 2.2 .4 for class/design load and maximum design support.

Q31 Drawing shows upgrading of 4-meter-wide access road but was not identified in the pricing form. Please clarify. Reference: 1-0101-CLYT-Y003, ACCESS ROAD.

A31 Quantities for the work required to constructed the temporary 4m wide road are included in the unit price quantities for excavation and base works. Please refer to revised Form B included in Addendum 8.

Q32 We will have to excavate close to the clarifier. Is shoring required if we expose the sidewall of the clarifier (but do not undermine the foundation)?

A32 Yes, shoring is required with the need for shoring coming from the depth of the excavation, the distance between the excavation and existing structures and the type of structure adjacent to the excavation. Shoring is part of “means and methods” of construction, which is under the responsibilities of the Contractor. As such the Contractor is to use a shoring system designed by a professional engineer registered in the province of Manitoba to assist the Contractor with the shoring decisions/details.

Q33 There are a few references to seismic and earthquake design in the specifications. Please confirm this project does not need to be designed to seismic loads?

A33 To confirm, this project does require Seismic Design considerations, as of January 2024, Manitoba has adopted the earthquake design provisions from the 2020 National Building Code of Canada.

Q34 We would like to inquire if the 3D models are available for the project. If so, would it be possible to share the non-native files, either Autodesk Navisworks (*.nwd or .nwc) or Industry Foundation Classes (.ifc), to assist us in conducting quantity takeoffs and gaining a better understanding of the project requirements? We believe access to these models would greatly enhance our ability to provide a comprehensive and accurate bid. To address any concerns regarding the use of these files, we are happy to sign any necessary documentation outlining our responsibilities and any restrictions associated with the use of the models. Please let us know if there are specific protocols or file-sharing platforms we should adhere to when accessing and using these files.

A34 The 3D model is not available for contractor use in this project.

Q35 Please clarify how PST will be compensated. B10.1.1 states that PST, shall not be included in the price sheet and will be extra where applicable. However, on Form B - list at the bottom Total Bid Price (GST extra) but does not say that PST is extra or allow for PST to be added anywhere.

A35 Include PST in each line item in Form B. Please refer to Addendum 11 removal of clause B 10.1.1.

Q36 Item 14. Standardized Electrical Valve Actuators – Base Cost in Form_B-Prices is unclear. It is asking for 1 Unit Price. Please clarify if we are to carry the cost for one ROTORK actuator or for the cost of all ROTORK actuators in the instrument list which falls under the E7. STANDARDIZED ELECTRIC VALVE ACTUATORS description in 721-2024 Tender document

A36 Please include the cost of all ROTORK actuators in Form B.

Q37 Please clarify if Contractor is to carry risk/cost for all known tariffs up to the submission date in our proposal?

A37 Refer to D36. Adjustments for Changes in Laws, Taxes or Tariffs provided in Addendum 3.

Q38 PPV Calculation - Section 31 62 16.16: Please clarify what is meant by "acceptable vibration limits" for this project. There are no specific limits mentioned in Section 31 62 16.16. We need specific guidelines to ensure compliance and address any potential issues related to noise and vibration.

A38 Please refer to 721-2024_Addendum 11_ NMS Specification – Section 31 62 16.16 – R01 for specific vibration limits.