



593-2024B ADDENDUM 11

CONSTRUCTION OF NORTH GARAGE REPLACEMENT

URGENT

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

ISSUED: May 14, 2025
BY: Arthur Anderson, C.E.T., CCCA
TELEPHONE NO. 204 801-7579

**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.

PART B – BIDDING PROCEDURES

Revise: B2.1 to read: The Submission Deadline is 12:00 noon Winnipeg time, **June 2, 2025**.

NOTICE TO BIDDERS

Further to Addendum 10, Bidders may submit additional proposed deductions as a confidential RFI by **May 20, 2025** to be considered by the City as a modification to the Tender documents. If the deduction is accepted by the City, an addendum will be issued to revise the Tender documents.

PART E – SPECIFICATIONS

Add: E16.6 Excavation Under Building

- a) The quantities listed in Form B item A.2 include excavation under the building footprint to a depth of 1.05 m below the finished floor elevation.
- b) The quantities listed in Form B item A.2 do not include excavation for grade beams, pile caps, drainage systems, or other additional excavations needed for building systems. The cost of these excavations shall be included in the lump sum bid for Part G Building.

DRAWINGS

Architectural

The following Architectural drawings are to be replaced or added, and are included in PDF file 593-2024B_Addendum_11_Drawing_Arch-R4:

Replace: 593-2024B_Addendum_9_Drawing_00-A-001-R3 with 593-2024B_Addendum_11_Drawing_00-A-001-R4

593-2024B_Addendum_9_Drawing_10-A-352-R3 with 593-2024B_Addendum_11_Drawing_10-A-352-R4

593-2024B_Drawing_10-A-603-R1 with 593-2024B_Addendum_11_Drawing_10-A-603-R2
593-2024B_Addendum_9_Drawing_40-A-201-R3 with 593-2024B_Addendum_11_Drawing_40-A-201-R4
593-2024B_Drawing_40-A-401-R1 with 593-2024B_Addendum_11_Drawing_40-A-401-R2
593-2024B_Addendum_9_Drawing_40-A-603-R2 with 593-2024B_Addendum_11_Drawing_40-A-603-R3
593-2024B_Addendum_9_Drawing_00-A-502-R3 with 593-2024B_Addendum_11_Drawing_00-A-502-R4
593-2024B_Addendum_9_Drawing_00-A-505-R3 with 593-2024B_Addendum_11_Drawing_00-A-505-R4
593-2024B_Addendum_9_Drawing_00-A-520-R3 with 593-2024B_Addendum_11_Drawing_00-A-520-R4
593-2024B_Addendum_9_Drawing_00-A-530-R2 with 593-2024B_Addendum_11_Drawing_00-A-530-R3
593-2024B_Addendum_7_Drawing_10-A-501-R1 with 593-2024B_Addendum_11_Drawing_10-A-501-R2
593-2024B_Addendum_7_Drawing_10-A-503-R1 with 593-2024B_Addendum_11_Drawing_10-A-503-R2
593-2024B_Addendum_7_Drawing_20-A-501-R1 with 593-2024B_Addendum_11_Drawing_20-A-501-R2
593-2024B_Addendum_7_Drawing_30-A-502-R1 with 593-2024B_Addendum_11_Drawing_30-A-502-R2
593-2024B_Addendum_7_Drawing_40-A-501-R1 with 593-2024B_Addendum_11_Drawing_40-A-501-R2
593-2024B_Addendum_7_Drawing_40-A-502-R1 with 593-2024B_Addendum_11_Drawing_40-A-502-R2

Add: 593-2024B_Addendum_11_Sketch Q 4-R0.
593-2024B_Addendum_11_Sketch Q 73-R0.
593-2024B_Addendum_11_Sketch Q 75-R0.
593-2024B_Addendum_11_Sketch Q 83-R0.

Mechanical

The following Mechanical drawings are to be replaced and are included in PDF file 593-2024B_Addendum_11_Drawing_Mech-FIRE-PLUMBING-R4:

Replace: 593-2024B_Addendum_9_Drawing_30-P-103-R3 with 593-2024B_Addendum_11_Drawing_30-P-103-R4
593-2024B_Addendum_7_Drawing_30-P-104-R2 with 593-2024B_Addendum_11_Drawing_30-P-104-R3
593-2024B_Addendum_9_Drawing_00-P-501-R3 with 593-2024B_Addendum_11_Drawing_00-P-501-R4
593-2024B_Drawing_00-P-502-R1 with 593-2024B_Addendum_11_Drawing_00-P-502-R2

The following Mechanical drawings are to be replaced and are included in PDF file 593-2024B_Addendum_11_Drawing_Mech-HVAC-IFC-R4:

Replace: 593-2024B_IFC_Drawing_00-M-101_IFC-R1 with 593-2024B_Addendum_11_Drawing_00-M-101-R2
593-2024B_Addendum_7_Drawing_00-M-103_IFC-R2 with 593-2024B_Addendum_11_Drawing_00-M-103-R3
593-2024B_Addendum_9_Drawing_20-M-101_IFC-R3 with 593-2024B_Addendum_11_Drawing_20-M-101-R4

593-2024B_Addendum_9_Drawing_20-M-103_IFC-R3 with 593-2024B_Addendum_11_Drawing_20-M-103-R4

593-2024B_Addendum_7_Drawing_20-M-301_IFC-R2 with 593-2024B_Addendum_11_Drawing_20-M-301-R3

593-2024B_Addendum_7_Drawing_50-M-604_IFC-R2 with 593-2024B_Addendum_11_Drawing_50-M-604-R3

593-2024B_Addendum_9_Drawing_50-M-621_IFC-R3 with 593-2024B_Addendum_11_Drawing_50-M-621-R4

Electrical

The following Electrical drawings are to be replaced and are included in PDF file 593-2024B_Addendum_11_Drawing_Electrical-R4:

Replace: 593-2024B_Addendum_9_Drawing_G-0002-R3 with 593-2024B_Addendum_11_Drawing_G-0002_IFC-R4

593-2024B_Addendum_7_Drawing_E-0002-R2 with 593-2024B_Addendum_11_Drawing_E-0002_IFC-R3

593-2024B_Addendum_9_Drawing_E-0052-R3 with 593-2024B_Addendum_11_Drawing_E-0052_IFC-R4

593-2024B_Addendum_9_Drawing_E-2107-R3 with 593-2024B_Addendum_11_Drawing_E-2107_IFC-R4

593-2024B_Addendum_9_Drawing_E-2602-R2 with 593-2024B_Addendum_11_Drawing_E-2602_IFC-R3

593-2024B_Addendum_9_Drawing_E-3101-R2 with 593-2024B_Addendum_11_Drawing_E-3101_IFC-R3

593-2024B_Addendum_9_Drawing_E-3102-R2 with 593-2024B_Addendum_11_Drawing_E-3102_IFC-R3

593-2024B_Addendum_9_Drawing_E-3103-R3 with 593-2024B_Addendum_11_Drawing_E-3103_IFC-R4

593-2024B_Addendum_9_Drawing_E-3104-R2 with 593-2024B_Addendum_11_Drawing_E-3104_IFC-R3

593-2024B_Addendum_9_Drawing_E-3105-R2 with 593-2024B_Addendum_11_Drawing_E-3105_IFC-R3

593-2024B_Addendum_9_Drawing_E-3106-R2 with 593-2024B_Addendum_11_Drawing_E-3106_IFC-R3

593-2024B_Drawing_E-3107_IFC-R1 with 593-2024B_Addendum_11_Drawing_E-3107-R2

593-2024B_Addendum_9_Drawing_E-3108-R2 with 593-2024B_Addendum_11_Drawing_E-3108_IFC-R3

593-2024B_Addendum_9_Drawing_E-3109-R2 with 593-2024B_Addendum_11_Drawing_E-3109_IFC-R3

593-2024B_Addendum_9_Drawing_E-3110-R2 with 593-2024B_Addendum_11_Drawing_E-3110_IFC-R3

593-2024B_Addendum_9_Drawing_E-3111-R2 with 593-2024B_Addendum_11_Drawing_E-3111_IFC-R3

593-2024B_Addendum_9_Drawing_E-3201-R3 with 593-2024B_Addendum_11_Drawing_E-3201_IFC-R4

593-2024B_Addendum_9_Drawing_E-3202-R3 with 593-2024B_Addendum_11_Drawing_E-3202_IFC-R4

593-2024B_Addendum_9_Drawing_E-3301-R2 with 593-2024B_Addendum_11_Drawing_E-3301_IFC-R3

593-2024B_Addendum_9_Drawing_E-3302-R3 with 593-2024B_Addendum_11_Drawing_E-3302_IFC-R4

593-2024B_Drawing_E-3400_IFC-R1 with 593-2024B_Addendum_11_Drawing_E-3400-R2

593-2024B_Addendum_7_Drawing_E-3500-R2 with 593-2024B_Addendum_11_Drawing_E-3500_IFC-R3

593-2024B_Addendum_9_Drawing_E-3550-R3 with 593-2024B_Addendum_11_Drawing_E-3550_IFC-R4

593-2024B_Addendum_9_Drawing_E-3600-R3 with 593-2024B_Addendum_11_Drawing_E-3600_IFC-R4
593-2024B_Addendum_9_Drawing_E-3601-R3 with 593-2024B_Addendum_11_Drawing_E-3601_IFC-R4
593-2024B_Addendum_9_Drawing_E-8009-R3 with 593-2024B_Addendum_11_Drawing_E-8009_IFC-R4
593-2024B_Addendum_9_Drawing_E-8012-R3 with 593-2024B_Addendum_11_Drawing_E-8012_IFC-R4

Civil

The following Civil drawings are to be replaced or added, and are included in PDF file 593-2024B_Addendum_11_Drawing_Civil_IFC-R3:

Replace: 593-2024B_Addendum_9_Drawing_0-C-0015-R2 with 593-2024B_Addendum_11_Drawing_0-C-0015-R3

NMS SPECIFICATIONS

Section 21 12 00 Fire Suppression Standpipes

- Revise: 2.3.2 to read: Schedule 40 Steel - Grooved Coupling Joints: Schedule 40 mild black carbon steel, ASTM A53, Grade B, complete with mill or site roll grooved ends, and Victaulic "Fire Lock" or "FIT Style 960 fittings", Gruvlock Fig. #7105 "Sock-It" fittings, Tyco Fire Suppression & Building Products Mechanical Outlet Tee Fig. 730 and Victaulic Style 005 **and 920**, Tyco Fire Suppression & Building Products #772, Gruvlok Rigid-Lite #7400, Shurjoint "Speed" or "Z05" rigid coupling joints or approved equivalent. Snap-Let type or strap type fittings are not acceptable.
- Revise: 2.3.4 to read: Schedule 10 Steel - Grooved Coupling Joints: Schedule 10 mild black carbon steel, ASTM A53, Grade B, complete with mill or site roll grooved ends, and Victaulic "Fire Lock" fittings, Tyco Fire Suppression & Building Products grooved fittings and Victaulic Style 005 **and 920**, Tyco Fire Suppression & Building Products #772, Gruvlok Rigid-Lite #7400 rigid coupling joints or approved equivalent. Snap-Let type or strap type fittings are not acceptable.

Section 21 30 00 Fire Pump

- Revise: 2.2.1.2 to read: Victaulic Series 728 "FireLock" ball type, **Victaulic Series 705**. (Victaulic Series 705W FireLock is not acceptable).
- Revise: 2.6.3 to read: **Fire pump:**
- .1 Provide a fire pump system (duty) designed in accordance with the requirements of NFPA #20 –latest edition. The fire pump shall be ULC listed for fire pump service at the specified rating
 - .2 **Pump set to be Pre-assembled skid-mount type. Separate pumps and other equipment is also acceptable, provided pump system is supplied from same manufacturer. In any case, compliance with NFPA -20 standard is required.**
 - ~~2~~ .3 The fire pump shall be single stage, split case, base mounted pump for fire suppression. Pump shall be designed to operate at 1750 rpm and deliver a rated capacity of 1500 USGPM at a rated differential pressure of 110 PSIG boost. The

pump shall be rated for a maximum discharge pressure of 200 PSIG and a maximum hydrostatic pressure 338 PSIG. The pump discharge flange shall be 125# ANSI and the suction flange shall be 125# ANSI.

- ~~3~~ .4 Fire pump shall be driven by a maximum of 150 HP, 1750 RPM, 3 phase, 60 Hz, 575V, open drip proof motor with a 1.15 service factor. The motor shall be ULC listed and shall comply with the provisions of NFPA 70, National Electric Code as described in NFPA 20.
- ~~4~~ .5 At 150 percent of rated capacity, the pump shall develop at least 65 percent of its rated head and shall not exceed 140 percent of the rated head at zero capacity. The pump shall be tested at the factory and a test curve shall be submitted showing the performance and horsepower requirements based on this test before final acceptance.
- ~~5~~ .6 The pump shall be of cast iron, bronze fitted construction. The pump internals shall be capable of being serviced without disturbing piping connections.
- ~~6~~ .7 The pump casing shall be made of ductile iron ASTM A48, Class 35, with the suction and discharge flanges located on a common centerline, 180 degrees apart, for mounting in the pipeline.
- ~~7~~ .8 The impeller will be of a cast bronze ASTM B584up – Alloy 875, enclosed type, balanced, keyed to the shaft and secured by a cap screw and lock washer.
- ~~8~~ .9 The casing wear rings shall be made of bronze and can be easily replaced.
- ~~9~~ .10 The pump shall be direct coupled to the motor shaft for easy maintenance, to minimize impeller run out and reduce noise.
- ~~10~~ .11 The pump shall have split bronze packing glands for easy packing replacement.
- ~~11~~ .12 The stuffing box shall be furnished with impregnated yarn packing, lantern ring and a catch basin for piping leakage to drain
- ~~12~~ .13 The pump shall have a vertical back pullout design that makes servicing simple and fast. The rotating element is easily removed without disturbing the piping.
- ~~13~~ .14 A rubber slinger will be installed on the shaft before the motor to prevent the passage of liquid to the motor.
- ~~14~~ .15 Fire pump fittings shall include ¾" casing relief valves and 90mm (3½") suction and discharge gauges (dial type), and ¾" automatic air release valves.
- ~~15~~ .16 The fire pump and controller shall be shipped loose for installation. The contractor shall provide supervised ULC listed and OS&Y suction gate valve, ULC listed discharge water check valve, ULC listed discharge butterfly valve, 90mm (3½") butt welded venturi flow meter and spool piece to accommodate the casing relief valve, jockey pump, jockey pump piping, valves and pressure gauge, jockey pump controller, pressure sensing lines and hose-header tee. Wiring between the controllers and electric motors shall be done in the field.

Section 23 34 00 HVAC Fans

Revise: 2.8.3 to read:

Acceptable Manufacturers: Acceptable manufacturers are:

- .1 Uline
- .2 Envirofan

- .3 Westinghouse
- .4 **Canarm**
- .4.5** Approved equivalent

Section 23 72 00 Hydronic Air Handling Units

Add: 2.2.8.16 Nortek Air Solutions-Ventrol

Section 23 74 00 Gas-fired Air Handling Units

Add: 2.2.8.9 Ice Western

Replace: 593-2024B_NMS_Section_26_20_00-Multiplex_Fire_Alarm_Systems with 593-2024B_Addendum_11_NMS_28_46_00-Multiplex_Fire_Alarm_System-R1

Delete: 28 47 00 – Public Address

QUESTIONS AND ANSWERS

- Q1: Section(s): 593-2024B_Addendum_3_Drawing_Mech_HVAC_IFC-R1. Specifications / Plan Reference: 30-M-102 Near Line E.1 & 50-M-621. Question: Is there a section of in-floor heating in this area? It's written Floor Heating (TYP). But there are no pipes drawn to this location or indications drawn on the drawing. It's also not on the schematic.
- A1: Floor heating is only provided in service lanes and bypass lanes area, refer to DWG 20-M-103.
- Q2: Do the numbers and letters shown on the drawings need to be line painted? (Auxiliary vehicle labels and Bus Storage Garage numbers). I don't see a note on the drawings calling out for those to be painted, just lines but want to make sure.
- A2: Numbers and labels do not need to be painted. There will be aluminium signage above the tracks, repair bays and auxiliary parking to indicate their numbers instead. Only line painting is required.
- Q3: Please provide the acoustic insulation type to be used for acoustic deck.
- A3: Acoustic deck is deleted. Drawings are updated in this Addendum. All steel decks throughout the facility are to follow the specification Section 05 31 00 Steel Decking.
- Q4: On the door schedules under "Frame Material" some are noted as "FS". This is not shown on the Abbreviation Legend. What does it mean?
- A4: "FS" abbreviation to be read "PS" in the door schedule drawings as shown in the 593-2024B_Addendum_11_Architectural_Sketch Q 4-R0.pdf
- Q5: Rolling Security Grille - Provide specification for the RSG-1 Rolling Security Grille (L-shape) shown on Door/Opening Schedule - Office, drawing 40-A-101 and drawing 40-A-407 interior elevation 6 marked as Door # 40-104A.
- A5: Rolling Grille is replaced with Side Folding Grilles, Section 08 35 16 provided in Addendum 7.
- Q6: Drawing 30-A-401&402 - Mobile Work Bench(MB), confirm if the Mobile Work Bench (MB) as shown on drawing 30-A-401, 402 is included in the contract. If yes, please provide details/specifications.
- A6: Refer to drawing 30-A-404 Mobile Work Bench is not in contract.
- Q7: Please clarify below for the requirements for the washroom and custodial accessories:
- a) MR1 is a tilt mirror in spec, but flat on drawings.

- b) MR2 is a flat in spec, but tilt on drawings.
- c) MR1 on drawings is a tilt mirror with shelf, spec calls for a tilt mirror (no shelf). Please confirm model required.
- d) GB1 is a 24" grab bar in spec, but 30" on drawings.
- e) GB4 is a swing up grab bar in spec, but a back rest on drawings.
- f) FND is napkin disposal in specifications, SND is napkin disposal on drawings.
- g) CH1 and CH2 are specified, only tag CH is shown on drawings (which coat hook is to be used?)
- h) Soap Dishes are specified and not shown on drawings. Is it 1 per barrier free shower?
- i) RPTD is specified (combination paper towel/waste) is specified, however drawings show many instances of paper towel dispensers and waste receptacles as separate units. Please provide models for these units.
- j) Hand Dryer is specified however none shown. Please confirm quantities/locations.
- k) Seat Cover Dispenser is specified however none shown. Please confirm quantities/locations.
- l) Napkin Dispenser is specified however none shown. Please confirm locations/quantities.
- m) Swing up grab bars specified, none shown. Please confirm if required.

A7: Tags will be updated on the drawings for the IFC (Issued For Contract) Submission. Tilt Mirror no longer recommended by most accessibility orgs; due to distorted image caused by these; Code still includes this as an or condition if bottom edge cannot be 1000 AFF. Tilt mirrors will be updated to flat mirrors. Location and quantities as per drawings. Addressed in Addendum #7.

Q8: Section 10 51 13 – Metal Lockers and Benches, the specs call for FLAT top, however elevations and sections show SLOPE top, please confirm which is correct.

A8: Sloped top. Please refer to Addendum 7.

Q9: Section 12 48 16 the specs and the finish schedule list both FGR-1 and FGR-2 however only FGR-1 is shown on plans 94 locations. Please confirm locations for FGR-2.

A9: FGR-2 was deleted in the spec. Please refer to Addendum 7.

Q10: Addendum 5 changed the security scope to Genetec. The City currently has a P2000 access control system. I just wanted to clarify that the City has requested a Genetec system, with Axis cameras?

A10: The City has stated that they are looking into transitioning to a new security system which they have not selected at this point. A lumpsum cash allowance will be allocated to the Contractor to implement sections 28 05 00, 28 08 00, 28 13 00, 28 16 00, 28 23 00, 28 47 00. Details on the allowance will be provided in Addendum 12.

Q11: Confirm height of substation fence. Form B Price Sheet indicates 1.8m and electrical drawing E-9002 indicates 2314mm plus 305mm barb wire. Standard is 2314mm plus 305mm barb wire.

A11: Refer to E-9002 in Addendum 7 and 00-L-502 in Addendum 9. Form B will be modified to reflect this change to a nominal 1.8m high fence in Addendum 12.

Q12: Confirm Manitoba Hydro is terminating the 66kV T-line to the dead-end disconnect switch pole.

A12: Refer to drawing E-9002, Manitoba Hydro will dead-end their line to the clevis/suspension insulator. Contractor's responsibility is to install the suspension insulator, clevis, riser / tap and accessories.

Q13: Can you confirm if the lighting controls are based on NX Controls by Current Lighting?

A13: The lighting control design is based on Lutron. Refer to Section 26 50 00 Lighting clause 2.4.4.6 for list of approved manufacturers.

Q14: Please clarify the requirements for underground conduits below the slab. If we to run the conduits shown on the E-6100 series drawings under slab, do they need to be concrete encased?

A14: Conduits on E-6100 series drawings are surface mounted conduits to be run in the ceiling space. Conduits running underground below slab are to follow clause 3.01.5.

- Q15: Spec 26 13 18 – 3.6 - Please confirm if owner supplied 12.47KV switchgear comes with a 2 year warranty.
- A15: Addendum 9 updated the scope of work to include this switchgear in this contract. Warranty for 12.47kV switchgear as per specification section 26 13 18 clause 3.6.1.
- Q16: Spec 26 12 13 – 3.4.1 - Please confirm if owner supplied HV transformer comes with a 2 year warranty.
- A16: Addendum 9 updated the scope of work to include this HV transformer in this contract. Warranty for HV transformer as per specification section 26 12 13 clause 3.4.1.
- Q17: Confirm supports and concrete bases required for overhead cable bus systems.
- A17: External supports for cable bus to follow requirements of Section 26 24 17 clause 2.2.5 and to be supplied by the manufacturer. Refer to drawing E-0050 for approximate locations of cable bus supports.
- Q18: Spec 11 11 36.10 - 3.3.2 - EV Charger Testing – States to engage with bus manufacturer and pay all fees. Please confirm bus manufacturer and contact information for this.
- A18: Electric bus manufacturer to be determined during testing period. Contractor to pay for costs associated with testing EV charging system as per Section 11 11 36.10 clause 3.3.
- Q19: Drawing E-1001 Note 2 – States EV charger cabinets are by others. Please clarify who is responsible of providing, installing and commissioning of the EV chargers.
- A19: Contractor to provide, install and commission EV chargers as per Section 11 11 36.10. Refer to general note 21 on drawing E-0003.
- Q20: Drawing E-1000 Fire pump ATS Feeders – Note 1 indicates these are to be fire rated but single line states wire in conduit. Please confirm if this is to be MI cable and size. Also these feeders transition to underground ducts, Is MI cable to be pulled within underground ducts?
- A20: Drawing E-1000 Note 1 is correct. Fire rated cable to be as per specification section 26 05 19 clause 2.3 and 3.4. MI cable size is shown on single line diagram drawing E-1000. MI cable in underground duct is acceptable.
- Q21: Drawing E-0108 Detail 4 – Is structural to provide and install the supports/concrete required for the parking lot mini power distributions?
- A21: Electrical to provide supports for parking lot mini power centers as per detail 4 drawing E-0108 and manufacturer recommendations. Refer to Section 26 20 00 clause 3.6.
- Q22: Drawing E-1001 – Disconnect switches not shown on the single line for EVC-01 to 06. Please confirm disconnects are required.
- A22: Disconnect switch not required for EVC-01 to 06.
- Q23: Section 26 05 70 3.5 asks for Ground Potential Rise Study, is that required.
- A23: Yes GPR study is required and to meet requirements in Section 26 05 70 clause 3.5.
- Q24: Please confirm if Flexible PVC or RPVC can be installed in the slab for this project. Specs ask for engineers approval.
- A24: Section 26 05 00 clause 3.1.3 refers to approval from Structural for conduits embedded within structural concrete. For conduits in slabs on grade, rigid PVC to be used as per Section 26 05 00 clause 2.2.5.
- Q25: Electrical single lines do not reference disconnect switches on mechanical VFD's. Please confirm.
- A25: VFDs are shown on SLDs. VFDs have integral disconnect switch included as per Section 20 08 00 clause 2.1.7.
- Q26: Please confirm who is responsible for supplying VFD drives. Mechanical or electrical?

A26: VFDs are to be provided by Mechanical. Refer to Section 20 08 00 - Variable Frequency Drives clause 1.2-1-11 and Section 25 00 00 - Building Automation System (BAS) clause 1.2-1-11.

Q27: There are no VFD tags indicating what equipment it is associated with (typical of all the mechanical drawings). Please confirm.

A27: Mechanical VFDs are located in the vicinity of the mechanical equipment it serves:

- Refer to AHUs/ HRUS, etc.
- Refer to Mechanical rooms, etc.
- Electrical charger rooms (as per below, VFDs serve the room fans, e.g. EF-34 & EF-24)
- Refer to Control DWGs depicting VFDs requirements
- Refer to Mechanical schedules depicting VFDs requirements
- The actual location of the VFDs may differ dependent on Contractor's selected and approved equipment and final room layouts.

Q28: Within the mechanical schedules they mention equipment comes c/w disconnect. Please confirm if this is integral to the unit or shipped loose. Manitoba code requires a standalone external disconnect as per code.

A28: This is dependent on the equipment purchased (packaged unit or standalone equipment) availability, installation (factory or field), accessibility, visual distance, etc. The Electrical code requirement are mandatory, thus all equipment and disconnects shall meet these requirements. External disconnect switches are shown on electrical power floor plans.

Q29: We would like to know if you can provide us detail drawings for EJ-1 and EJ-2 for walls and ceilings as shown on the drawings EJ-1 and EJ-2.

A29: Comment is missing the list of drawings. EJ-W1 and EJ-W2 details at walls: see sheet 40-A-504, issued in Addendum #7.

Q30: Please clarify below painting scope:

Painting Specs 3.5.7.2 Metal Deck requires SSPC SP1 and paint.

Room Finish Schedule 10-A-601, 20-A-601, 30-A-601 Ceiling - "Exposed" was noted "Finish - N/A".

Please confirm that those "exposed areas" (which we assumed are metal deck) does not require painting.

A30: Ceiling finishes were revised in the noted schedules on Addendum #7.

Q31: No mention of base is included in 10 51 13 – Metal Lockers and Benches, however the elevation plans (10/10-A-403, 8-11/40-A-405) seem to suggest individual metal box base as apposed to concrete or plywood which would be continuous. In these same elevation details, there also seems to be a suggestion that sloped tops are to be included. This is contrary to 10 51 13 – Metal Lockers and Benches clause 2.3.5 which states... "Tops: Flat, continuous overtop of a bank of lockers, 18 gauge", if clarification of these two discrepancies could be provided, that would be immensely appreciated.

A31: Typical locker base detail added to sheet 00-A-540. Base to be similar to millwork bases. Lockers to include a sloped top, refer to Addendum #7.

Q32: Fire Proofing:

- Reference to Detail 10/00-a-502 shows fireproofing on the steel beam supporting. However Drawing 00 - A-001 indicates that F3 is no longer rated. Please confirm whether fireproofing is required or not for the steel beam support.

- Exposed Columns between gridlines L & M , please provide detail and confirm if these columns are to be coated with intumescent paint .

A32: Refer to Addendum #7. Fireproofing is required per Sheet 00-G-101 at grid L: 2HR FRR SPRAY FIREPROOFING FOR STEEL STRUCTURE SUPPORTING SERVICE LEVEL FLOOR. Fireproofing removed from beam in detail 10/00-A-502 because it is a different floor.

Q33: Steel Deck Finish: The structural drawing general notes indicate galvanized steel deck which implies a Z275 finish. If the intent is to paint the underside of the steel deck anywhere then this coating would not be recommended. Please provide clarification regarding steel deck finish.

A33: Galvanized steel deck, not painted.

Q34: Can you please have the following clarified:

- a) In the spec, 23 30 00 2.1.3 states that round elbows up to 12"Ø to be di formed. If pressure is 2" or below, can we use adjustable elbows?
- b) Can 23 30 00 2.1.4 be deleted from the spec? I don't see it any where on the plans.
- c) Can 23 30 00 2.1.12 be deleted from the spec? I don't see it any where on the plans.
- d) Can 23 30 00 2.1.13 be deleted from the spec? I don't see it any where on the plans.
- e) Can 23 30 00 2.1.14 be deleted from the spec? I don't see it any where on the plans.
- f) Are shop fabricated side take offs acceptable for 'round to rectangular duct connections' 23 30 00 2.5.1?
- g) Per 23 30 00 3.1.6 we're to reinforce low to medium pressure round ducts 37"Ø to 60"Ø but per SMACNA, spiral with slip joints can handle up to +10" WC. Can you confirm that we're to go above SMACNA standards?
- h) Per 23 30 00 3.1.7 we're to 'seal all ductwork to class A, except round duct with self sealing gasketed fittings and couplings'. Is sealer acceptable for round duct?
- i) Per 23 30 00 3.1.7, states that all duct is sealed to class A, note 23 30 00 3.2.19 states that 'for seal class A apply the sealant on the interior of the duct'. This cannot be accomplished with smaller ducts. Please clarify on what size minimum this is for or if this can be deleted, or if self sealing gaskets are required.
- j) Per 23 30 00 3.2.4, we're to provide aluminum duct for certain exhaust duct. Need to be more specific on what systems this applies to.
- k) Per 23 30 00 3.2.6, we're to provide stainless steel duct for certain exhaust duct. Need to be more specific on what systems this applies to.
- l) Please confirm ventilation scope deleted for alternate price 5 and alternate price 6.

- A34:
- a) Yes, for pressure of 2" or lower if it meets or exceeds SMACNA HVAC Duct Construction Standards
 - b) Will not be deleted, reserved for final acoustical evaluation to be conducted based on actual equipment shop drawings.
 - c) Will not be deleted, reserved for Client potential changes, etc.
 - d) Will not be deleted, reserved for Client potential changes, etc.
 - e) Will not be deleted, reserved for Client potential changes, etc.
 - f) Is acceptable if it meets or exceeds SMACNA HVAC Duct Construction Standards
 - g) The ductwork will be as per SMACNA (not above).
 - h) If the round duct will not have self-sealing, then ductwork shall be sealed in accordance with SMACNA Seal Class "A"
 - i) Small ducts may use external seal or self-sealing methods. Refer to 3.3 duct leakage testing.
 - j) Refer to 3.2.4.1 that clarifies the requirements in conjunction with the other mechanical drawings layouts.
 - k) It is clearly depicted on the specification - clause 3.2.4-1 ".1 Exhaust air ductwork on its entirety from the exhaust grille/ diffuser and all the way to exhaust to outdoors, that contains moisture laden air, such as exhaust air from lockers with shower area, shower area, washroom with shower area, or similar spaces." and 3.2.6 "Stainless Steel - All exposed ductwork installed indoors for the systems serving and located in potential high humidity areas, water spray areas, or corrosive areas, such as bus wash areas, undercarriage bus wash area, bus wrap areas, power wash areas (multiple locations), steam bay areas".
 - l) Refer to the narrative.

Q35: 6DP-09 is this part of the pre-purchase (Contract Administrator Note: this is interpreted as items previously found within Tender 1045-2024)?

A35: 6DP-09 was not part of 1045-2024 and was always to be included in this contract. Note that Tender 1045-2024 items have been added into this contract in Addendum 9.

Q36: MAIN BREAKER that are greater than 225A quoted with LI STD

- DP-MG-05
- PP-MG-01
- EP-MG-01
- PP-OE-01

A36: As per general note 1 on single line diagram drawings, circuit breaker with frame sizes 200A and larger shall be LSIG type.

Q37: GARMENT RACK: Reference to Drawing 40-A-40 , there are 8 garment racks shown for the uniform storage room, please provide specs for this.

A37: The garment racks are not in contract.

Q38: PALLET STORAGE RACKS: Reference to Section 10 56 29 regarding Folding Tire Racks , Please provide quantity of folding tire racks and clearly identify on the plans for this material. '

A38: A total of 15 folding tire racks are to be provided. They will be in 5 groups of 3 high, as represented on drawing 30-A-101, in the Tire Storage/Shipping & Receiving / High Voltage Battery Storage , Room 30-110.

Q39: PAINTING:

- a) The painting spec has a section for architecturally exposed structural steel exterior finishes, but looking at the exterior elevations everything looks to be a prefinished material. What is this section referring to?
- b) The painting spec notes a polyurethane finish for the exposed metal deck (which looks to only be required in 10-128 Interior Circulation) but the finish schedule notes PT-5 Benjamin Moore Aura paint. Which is to be carried? A drywall paint would be recommended.
- c) As per section 09 90 00, item 3.6 Mechanical & Electrical Equipment, the specification states that all "unfinished" conduits, pipes, etc. visible from exterior or interior areas are to be painted. However, most of the exposed ceiling areas are extensive and typically left unpainted. Could you please advise whether we should include painting of all exposed pipes, ducts, and conduits in these ceiling areas to match adjacent surfaces? This would have a significant impact on the pricing if required.
- d) Could you please confirm that the AESS mentioned in Section 09 90 00, item 3.3, refers only to the interior columns and bracing within the building?

A39: a) referring to painting lintel angles over openings.

b) exposed metal deck finish varies by location, refer to room finish schedules. PT5 to be used in bus wash bays. PT4 for drywall/bulkheads.

c) To match finish of ceiling, where roof deck is unpainted the pipes/ducts can also be unpainted.

d) Yes, it applies to the interior columns and bracings.

Q40: SECTION 08 44 13 ALUMINUM CURTAIN WALLS & ENTRANCES

Please refer to Drawing 00-A-505 – Curtainwall frames are detailed with a 95mm backsection and 152mm overall depth and dual pane units. The specified glazing is triple pane. Majority of the frames will work using 101mm backsection for tripanes or 177mm overall however;

- o Curtainwall elevation W03 (page 10-A-603) requires 133mm backsection or 209mm overall depth with internal steel to meet NBC windloading
- o Curtainwall elevations W06 & W07 (page 40-A-603) require 168mm backsection or 244mm overall frame depth with internal steel to meet NBC windloading

This is based on standard charts we have NOT engineered this specific to the project. Please advise if additional external steel will be provided to anchor curtainwall and use overall depth similar to detailed or if we

should be including larger backsections with internal steel and building envelope details will be adjusted accordingly to suit the larger frames. Please refer to the attached windload charts for specified frames for reference.

A40: Regarding W03, please note there is a structural girt on grid line B.1 for intermediate support of the curtain wall, refer to detail 1/S400 and 2/S450. The remaining curtain walls were adjusted for the windload as per the Alumacore - ThermaWall 2600 Series spec sheet, with specific mullion depths and spacing. Mullion steel reinforcement is required.

Q41: STRUCTURAL STEEL: Please provide cladding Specification 07-46-19, item 2.2 does not identify actual wall cladding thickness only the paint topcoat thickness. Please advise, if you require 26, 24, or 22 gauge exterior faced panels?

A41: Refer to Section 09 06 00 Finish Schedule.

Q42: Please provide the acoustic insulation type to be used for acoustic deck.

A42: Acoustic Decking is to be removed from the scope of work, per drawings issued in Addendum 11. Acoustic decking specifications were never issued.

Q43: Please confirm that pre-painted deck is not required. If yes, please specify the areas.

A43: Refer to Room Finish Schedules.

Q44: The revised drawings provided in addendum 3 show a 7mm asphaltic board on roof assemblies shown on 00-A-001, however Specification 07 52 16 R1 revised in addendum 5 calls for a 14.9mm 2-1 Soprasmart board ISO HD. We believe the intent would be for the 14.9mm 2-1 Soprasmart board ISO HD, but please confirm.

A44: Follow the latest Specifications per Addendum 5.

Q45: The revised drawings provided in addendum 3 show a paver walkway around all mechanical units, however specification 07 52 16 R1 revised in addendum 5 calls for a membrane walkway. Please confirm which is required.

A45: Follow the latest specifications which indicate a membrane walkway.

Q46: The revised drawings provided in addendum 3 shows a 16mm sheathing board on the roof assemblies shown on 00-A-001, however specification 07 52 16 R1 revised in addendum 5 calls for a 13 mm sheathing board. Please confirm which is required.

A46: Follow the latest specification.

Q47: Specification 07 52 16 R1 calls for a class A fire rating under item 1.5.4.1, however the cap sheet specified is class C. Further to that the description of the cap sheet is for a Soprastar Flam cap sheet, but the product provided is a Sopraply Traffic Cap. Does the project require a Soprastar white cap sheet for LEED requirements or is the Sopraply Traffic Cap acceptable?

A47: There is no LEED requirement for the roof to be white.

Q48: The R-values of R-60 and R-50 for the roof assemblies seem high. In an effort to keep the project within budget please confirm that these are the required R-values for the roof.

A48: Manitoba Energy Code for Buildings requires roof assembly to have a minimum effective R-Value of R-46

Q49: Fire Suppression Specifications

- a. 211200 -2.3, Strap type fittings not acceptable. (standpipe section) will vitaucil style 920 be acceptable?
- b. 211313 -3.3, Galvanized pipe for dry and Pre-action? With recent industry discoveries, this is not the preferred pipe choice. What do you want for this project?
- c. 211313 -2.3, and 211313 – 3.5, RP BFP or DCVA BFP? Feeding fire line. Also ref to a detector check? Standard DCVA is the typical install for fire.

- d. 211313 – 3.6, and 211316 – 3.5, Cover system for sprkr pipe? Glass reinforced nylon? Please provide clarification
- e. Alarm valves for system zones? Assume that flow stations are acceptable instead of Alarm valves?
- f. Control panels or release panels? Assume the fire alarm and elec div will look after the addressable panel to communicate and activate with the sprinkler system or conjunction with preactions? Dual fire flex cabinets is different and yes will have their own release panel on cabinet.
- g. 211313 – 2.19, Fire blankets? In cabinets? Where?
- h. 211313 – 3.14, Pendants recessed or concealed?
- i. 211313 – 3.14.9, Window sprinkler in corridors. Please provide alternative solution?
- j. 212200 2.18 Detection devices, wired detectors and air sampling? Or just the wired detectors back to dual cabinet release panel?
- k. By what method do you suggest performing a room integrity/pressurization test for the clean agent rooms? What pressure for the 10 min duration
- l. 213000 – 1.4, Pre assembled skid mount? And horizontal split. This is not shown on the drawings (F-103). Please confirm, and realize the skid type does take up more space.
- m. 213000 – 2.2, Shut off valves , Victaulic 728 acceptable but firelock 705W not? 728only goes to 2” so I assume this is a typo. Inlet shutoff to pump is to be OSY and discharge can be Butterfly as per NFPA . we suggest _Firelock Series 705_
- n. 213000 – 2.6.3, FP boost to be 110 psi, I assume we don't want system static pressure above the 175 psi, correct?

A49: a. Yes

b. Galvanized

c. RPZA, as per specification

d. Specification have been revised in(Addendum 11.)

e. Alarm valves are required.

f. No change to specification. works as described in relevant divisions.

g. Refer to Addendum 9 which now shows this one location in the lube room.

h. Aas per specification and to suit ceiling descriptions in architectural drawings.

i. None required

j. It depends on actual selection of equipment by the Contractor.

k. All as per NFPA-2001, including appendices of that standard.

l. Pre-assembled skid-mount. However, separate pumps and other equipment is also acceptable, provided from same manufacturer. in any case, compliance with NFPA -standard is required.

m. Reference Addendum 11.

n. No change in specification.

Q50: Furniture Quantities: Some furniture items are a bit difficult to distinguish by type from the current furniture plans. Would you be able to provide the quantities for each item listed in Section 12 59 01 – Workstation System, as well as in the furniture schedule? Alternatively, if a furniture legend is available on the floor plan, that would also be very helpful. Would it be possible for us to receive a CAD file of the furniture plan?

A50: Refer to specifications and drawings. Quantities will not be provided. CAD file will be provided to the Contractor after contract award.

Q51: Please confirm the maximum permissible voltage drop on the DC charger DC cables. E-9002 BOM is substantially incomplete. Please review and update accordingly.

A51: Refer to manufacturer recommendations for maximum permissible voltage drop for the DC cables. The bill of material shown in E-9002 provided the material description for the major electrical equipment. Contractor shall select and provide the appropriate Cu/Al connectors (compression and mechanical), equipment and poles fastening hardware to complete the installation.

Q52: As part of the Tender No. 593-2024B Construction of North Garage Replacement project requirements, we must submit Electronic Record Drawings for future reconfiguration in the software package specified by the City – 593-2024B_NMS_Specifications_PDF / Section 12 59 00 / 1.8 SUBMITTALS / .6.

A52: The submittal format is to be CAD as per City of Winnipeg standards.

Q53: No details for the bus lifts provided within the electrical scope besides the power feeds. Please confirm if there are any additional wiring/conduit underground or in-slab required.

A53: Electrical to provide power feeds to bus lifts. Additional conduit requirements are shown on drawing 30-D101/ detail #2 and detail #3. Confirm installation requirements with lift supplier.

Q54: E-0050, E-0108 Security and power conduits for the cameras - Please confirm if HDPE is acceptable installed via directional bore.

A54: Security and power conduits for the cameras to be as per E-0102 detail 4 to 6.

Q55: E-0106 - is an emergency stop/shutdown button required at the building entrances for the EV charging units?

A55: Emergency stop/shutdown button required at each dispenser location.

Q56: Description of Issue: We are currently in the process of reviewing the architectural drawings for the curtain walls, and we've identified a discrepancy between the curtain wall sizes shown in the drawings and the actual required size for this part of the project. Specifically, the curtain wall dimensions provided in the drawings are insufficient for the intended design, and the planned load requirements exceed the capabilities of the indicated curtain wall system.

Additionally, some of the curtain does not need to have as heavy load requirements as others, do we remain consistent with the curtain wall depth throughout the building, or can we use smaller depths where load requirements aren't as extreme.

Details of the Issue:

- Drawing Reference(s): 00-A-505 Detail #5,6,7 & 8 - 00-A-520 Detail # 6,8,9,11,12,13,14 – 00-A-502 Detail # 1,2,3,4
- Issue Identified: The current curtain wall design does not meet the required windload/deadloads (or structural requirements) due to curtain wall depth being too narrow.
- Required Curtain Wall Size: 12 ¼" depth for W03, 10 ¼" depth for W06 & W07, 7 ½" depth for W04 (this is the minimum depth needed for the curtain walls to be within the correct windload/deadload requirements for each curtain wall that is considered large).
- Impact: This discrepancy could lead to potential delays or changes in design if not addressed, and it may affect the overall structural integrity or aesthetic design of the curtain wall.

Requested Information:

1. Confirmation on Updated Curtain Wall Specifications: Could you confirm if the curtain wall dimensions shown on the drawings should be revised to accommodate the larger size required for this section of the project? If yes, please provide updated drawings or specifications.
2. Approval for Adjusted Design: If the updated size is acceptable, would the architects approve this adjustment in the design, including any potential changes to the framing or other system components?
3. Alternative Solutions: If revising the curtain wall size is not feasible, could you propose an alternative solution to accommodate the increased size requirements? (For example, changes in material or structural support, or alternative curtain wall systems.)

A56: The curtain walls were adjusted for the windload as per the Alumacore - ThermaWall 2600 Series spec sheet, with specific mullion depths and spacing. Mullion steel reinforcement is required. Drawings revised in this Addendum 11.

Q57: Section 11 24 29 Fall Arrest Anchors and Travel Restraints - References Z259 Horizontal Lifeline, Z271 Suspension Anchors & Platforms. What is the intent of use for the rooftop fall protection systems? Fall protection perimeter rooftop access or Suspension for wall/window maintenance. These are two different design standards. To meet Z271 Suspension Anchors, additional anchors would be required, as the standard specifies a max 3m offset between primary and secondary anchors. To meet the Z259.16 HLL fall protection system, we would be able to reduce the number of anchors to the allowable spacing for the HLL system.

A57: The fall protection is only for roof or mechanical maintenance. This system must be engineered and reviewed in the submittal review phase.

Q58: There is a Monorail for equipment hosting in the Maintenance Bays. Do the end users require fall arrest systems in the Maintenance Bays for bus rooftop access.

A58: Fall arrest is not required. Refer to the Section 10 91 13 Miscellaneous Specialties for, clause 2.5 MOBILE WORK PLATFORM AND STAIRS FOR BUS ROOF ACCESS.

Q59: Section 31 62 13 Precast Piles, 1.5;4 states "Drive units to develop loads as indicated on drawings" pile loads are not shown on drawings, please provide loads.

A59: Refer to pile schedule on Structural drawing 00-S-550 for pile loads.

Q60: Concrete Hardener is listed in Section 03 35 00 Concrete Finishing. It states to apply indicated on drawings and/or schedules. Cannot find anywhere on drawings where it is indicated. Please advise.

A60: For all exposed concrete flooring.

Q61: HV - INSTALLATION OF PAD MOUNTED TRANSFORMERS – 26.12.00-3.1 – Please confirm requirement for oil containment and design.

A61: Refer to drawing:

- i. E-9002 for sectional view.
- ii. E-9001 for plan view, see Notes 2,3, and 4.
- b. Refer to specification 26 12 14.

Q62: Fire Pump – a) Please provide the method of starting (ie cross the line, soft stater etc)

b) What is the max voltage dip and frequency dip that would be excepted for the generator?

A62: Fire pump starter included in Section 21 30 00 clause 2.6.5. The peak voltage dip expected is 13% and peak frequency dip expected is 4%. Generator manufacturer to confirm as per Section 26 32 03.

Q63: Ceiling type GB-1 on 00-A-001 is noted as 16mm Abuse Resistant Gyp. Bd. on metal suspension system. The reflected ceiling plans have GB-1 noted as 16mm Gypsum Board on metal suspension system. The room finish schedules have GB-1 noted as 16mm Abuse Resistant Gyp. Bd. on 92mm metal studs. Please confirm which is correct.

A63: 16mm Abuse Resistant GB is to be provided for ceiling type GB-1. The RCP plans schedules GB-1 description must read as 16mm Abuse Resistant Gyp. Bd. on metal suspension system", as per the sketch 593-2024B_Addendum_11_Architectural_Sketch Q 73-R0.pdf".

Q64: Details 2 through 5 make note of an expansion joint cover between the steel stud assembly and adjacent construction. Please provide a specification for this expansion joint.

A64: Details are provided in Addendum #7 Drawings.

- Q65: Detail 1/40-A-352 shows a steel stud partition S23 against a masonry M290 wall. There is no way to sheath the one side of the S23 partition facing the M290 wall. Please advise.
- A65: S23 parallel to M290 partitions to be revised to S4 wall type. Refer to file 593-2024B_Addendum_11_Architectural Sketch Q75-R0.pdf.
- Q66: Detail 6/00-A-519 (Mech Dog House) is not shown on the roof plans. Please advise how to locate this item on the roof plans.
- A66: Mechanical Doghouses are located on roof plans, refer to legend - roof plan on this drawing(s).
- Q67: The top of detail 1/00-A-503 refers to roof assembly R4 (see 2/20-A-352) which doesn't quite match roof assembly R4 on 00-A-001. Please confirm which is correct.
- A67: Detail is generally correct in sequence of materials listed in assembly; detail only shows 1 top layer of cement board sloped where assembly description notes both top layers of cement board sloped.
- Q68: Detail 8/10-A-501 shows a Mullion Mate at the end of S23 wall where it meets the glazing. Please provide a specification for the Mullion Mate as there are multiple types available.
- A68: Mullion Mate required to meet fire resistance and STC requirements to that of adjacent wall assembly S23.
- Q69: Regarding steel stud wall assemblies where cement board (S4A for example) and abuse resistant gypsum board (S10 for example) are required, please confirm if the sheathing board (cement board or abuse resistant board) are required to extend the full height of the partition or not. Typically, we see cement board only behind where there are wall tiles installed and abuse resistant gypsum board limited to 8' high AFF with standard gypsum board above (people can't normally reach above the 8' level). Please clarify if cement board and abuse resistant board are required the full height of the wall or not.
- A69: S4A and S10 wall assemblies are both with abuse resistant gypsum board; type of gypsum board noted to extend full height at this time.
- Q70: Wall type S13 on 00-A-001 lists 14mm SPACE between the different sized steel studs. Detail 5/00-A-503 shows a furring channel between the stud framing. Please confirm if there is furring channel between the stud framing and if so, what is the spacing?
- A70: Furring channel to be provided @ 610mm O/C in horizontal.
- Q71: Wall type S14 on 00-A-001 lists "20 Ga. RIGHT ANGLE LATERAL BRACING SPACED 1524mm O/C WITH NOTCHES (SPACED 406mm O/C)" - Please clarify the intent here. A sketch would be helpful.
- A71: Reference is to be made to the UL492 assembly description for further information on how assembly is to be framed. Lateral bracing referenced also known as channel runners.
- Q72: Staying on wall type S14, the description lists 2 layers of abuse resistant gypsum board on each side which is unusual. Typically on a multi layer drywall partition with abuse resistant drywall, the outer layer is abuse resistant and the inner layer is standard gypsum board. Please confirm if all 4 layers are to be abuse resistant gypsum board
- A72: The 2 layers of abuse resistant type 'x' GB on each side of this assembly are required for wall to meet FRR and that of the referenced UL492 listed assembly.
- Q73: One last item with wall type S14, please confirm the spacing of the 15mm furring channels.
- A73: The 15mm furring channels to be spaced at 610mm O/C. Refer to drawing "593-2024B_Addendum_11_Architectural Sketch Q 83-R0.pdf".
- Q74: EW2 exterior wall type on 00-A-001 lists 152mm semi-rigid batt insulation (r-25). Two questions: 1) should a vapour barrier be needed in the drywall partition? and 2) 152mm (6") Rockwool Comfortbatt will only achieve R-22.5 in 6" thickness. Please advise.

A74: No vapour barrier required. Total wall assembly insulation is 327mm, as based on separate layers of 175mm behind cladding, and 152mm within wall.

Q75: In section 05 41 00, item 2.3.3.2 calls for a 2-piece telescoping track for internal walls where deflection allowance is required (also noted in section 09 21 00, item 2.2.1.3.1). Is a single slotted top deflection track acceptable for both exterior wind load bearing steel stud framing and interior steel stud framing where deflection is required?

A75: Use 2-piece telescoping track for internal walls as per specification.

Q76: Item 2.4.6 in section 09 21 00 calls for silicone emulsion sealant and glass-fiber mesh tape for sheathing joint and penetrations. This is used to provide a vapour barrier, however since a separate vapour barrier is being used on the outside of the sheathing, this would seem to be unnecessary. Please advise.

A76: This is best practice to ensure effective AVB within building envelope; provides redundancy against failure / installation errors.

Q77: Site Drawings for both Electrical and security show security cameras, however, do not detail if they are independently pole-mounted as per security details or if they are to be mounted on a light standard. Security cameras shown in parking lot appear mounted on light standard pole. Please confirm this is the case or if an independent pole, as per security details, is to be provided adjacent to light standard.

A77: Security Site Drawing TY-100 shows existing electrical light poles (light poles and related infrastructure are lump sum items) which are being used to support the cameras (cameras are an Allowance under future Section 01 21 00). Security Site Drawing TY-100 also show supplementary cameras (including end device mounting accessories) along the fence lines which will require supplementary security poles (including end device mounting accessories) supplied and installed under an Allowance via future Section 01 21 00). However, electrical infrastructure to the supplementary security poles are a part of the Lump Sum. Foundations for the supplementary security poles along the fence line are a part of the Lump Sum. It is anticipated that the supplementary security poles along the fence line under the Allowance will match the light poles listed as type LP7 (excluding luminaire).

Q78: Light fixtures recessed in drywall. Please confirm if safety chain is required.

A78: Yes, provide supports in accordance with the requirements outlined in the Canadian Electrical Code for the Installation of lighting equipment.

Q79: An Electrical mechanical schedule has not been provided for this project. Therefore, there is no details on items such as fire alarm interconnection, disconnect required, VFD drive cable required, and connection type. Please provide a schedule so these details can be confirmed.

A79: Fire alarm interconnections for mechanical equipment are shown on fire alarm drawings and Section 28 46 00 Multiplex Fire Alarm Systems clause 3.5. Disconnects are shown on electrical drawings and details are included in Section 26 20 00 Electric Service and Distribution clause 2.3 and 3.4. VFDs are shown on single line diagram and VFD drive cable details are included in Section 26 05 19 Low Voltage Conductors clause 2.1.6. For connectors refer to Section 26 05 19 Low Voltage Conductors clause 2.2.

Q80: Fire Alarm Specification is a general spec that includes things such as flame detectors, linear heat, and also asks for spare parts such as speakers and amplifiers, which are not on the drawings. Please release an updated spec that relates only to this project so we know what to quote (spec refers to both single and two stage systems). Otherwise costs will be higher than needed as we will have to include many things that are on the spec.

A80: Fire alarm specification has been revised to remove devices not included in drawings including flame detectors, linear heat and spare parts for speakers and amplifiers. Fire alarm system to be single stage as per section 28 46 00 clause 2.1.1.

Q81: Page E-5101 – FA Horns - There are fire alarm horns only in offices and break rooms. Strobe coverage will be required as per the City of Winnipeg bylaw. There are instances of this elsewhere in the drawing as well. Please advise if required.

A81: Strobe coverage is included in Addendum #11. Electrical legend on drawing E-0002 has been revised accordingly.

Q82: Major electrical equipment long lead time Items - These items have now been moved into this tender from the previous long lead time item tender. However the expectation for delivery is still the same. With the award being delayed, the current deadlines cannot be met by manufacturers. Please advise if deadlines will be adjusted.

A82: Refer to addendum #9 for the incorporation of the electrical equipment. Delivery times will be based on the prime contractor's schedule for this tender.

Q83: Hand Holes - Please provide more details regarding sizing and requirements.

A83: For hand holes refer to section 26 05 31 Electrical Concrete Products clause 2.3 and 3.3 and drawing E-0102 detail #1 and #2.

Q84: Having a look through the specs on this job and having some questions regarding some of the landscaping items.

I have noticed the native seeds are specified from an Ontario based supplier. There is nothing stated on the types of vegetation and the percents of each seed in the mixes.

Also the Pine Mulch specified again is specified to be sourced from a manufacturer that's located near Toronto. The cost to ship this mulch to Manitoba will be insanely high and provide no real benefit to the project.

I am wondering why these products are being specified to be sourced so far from the project location with no other substitutes mentioned. Also wondering if these Native seeds are viable in Manitoba.

A84: The seed mix can be by another supplier, but a similar/same mix shall be provided which will have to be approved prior to installation. Refer to Addendum 7, where Section 32 92 19, subsection 2.1.2 was revised to read: Seed Mixes as composed by Ontario Seed Company (OSC) or approved equivalent. A contractor may choose to have a custom seed mix prepared by another supplier which is the same/similar for approval rather than sourcing from Ontario Seed Company. Refer to Addendum 9 regarding the mulch concern. The reference to Gro-Bark has been removed in specification 32 93 53, subsection 2.12.1.

Q85: Will the cash allowances include all the necessary poles, and mounting hardware?

A85: Reference Answer 78 above.

Q86: Specification Section 10 51 13 Metal Lockers and Benches - Clause 2.5.7: What are the 100mm height locker bases to be constructed with (Wood frame or concrete or other material)?

A86: The material is metal sheet on lockers legs, as per Specification Section 10 51 13 Metal Lockers and Benches - Clause 2.5.7: Bases (where concrete bases are not indicated): Minimum 1 mm thick sheet, finish to match locker colour, minimum 100 mm (4") high, complete with top and bottom legs and intermediate vertical steel reinforcement at back.

Q87: Addendum 9 – Part D Supplemental Conditions D3.1(F) Supply and Delivery of Long Lead Electrical Equipment. Electrical trades have been informed that the delivery of the electrical equipment will not meet the revised Substantial Performance date of October 1, 2027. This scope was previously not part of the contract that was tied to this date and the liquidated damages. We request the substantial and total performance dates be adjusted to reflect the delivery of the electrical equipment that has been added to this tender. Alternatively consider removing liquidated damages from any scopes that are impacted by delivery of the long lead electrical equipment.

A87: Refer to D24 Supply Chain Disruptions.