



763-2023 ADDENDUM 4

DIRECT CURRENT FAST CHARGING AT 600 BRANDON AVE TRANSIT GARAGE

URGENT

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

ISSUED: January 2, 2024
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THIS ADDENDUM SHALL BE INCORPORATED INTO THE BID/PROPOSAL AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS

Template Version: Add 2021-03-05

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

PART E – SPECIFICATIONS

DRAWINGS

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
763-2023_Drawing_G-000	Cover Sheet
763-2023_Drawing_A-101_R1	Partial Main Floor Plan – Architectural - New Construction, Elevations, Details
763-2023_Drawing_S-101	Structural Details
763-2023_Drawing_M-001_R1	Mechanical Symbol Legend
763-2023_Drawing_M-101_R2	Partial Main Floor – Mechanical - New Construction
763-2023_Drawing_E-001	Drawing List and Symbol Legend
763-2023_Drawing_E-002	Electrical Site Plan General Arrangement
763-2023_Drawing_E-101	Electrical Service Equipment Demolition
763-2023_Drawing_E-201_R1	Electrical Service Equipment New Construction
763-2023_Drawing_E-202_R1	Partial Main Floor Plan – Electrical - New Construction
763-2023_Drawing_E-203	Partial Main Floor Plan – Electrical - New Construction
763-2023_Drawing_E-204	Partial Main Floor Plan – Electrical - New Construction
763-2023_Drawing_E-205_R1	Enlarged Storage Room Equipment Layout - New Construction
763-2023_Drawing_E-301_R1	Single Line Diagram – Demolition
763-2023_Drawing_E-302_R1	Single Line Diagram – New Construction
763-2023_Drawing_E-303	Electrical Details
763-2023_Drawing_E-304	Structural Details

Replace: 763-2023_Drawing_M-101_R1 with **763-2023_Drawing_M-101_R2**

Replace: 763-2023_Drawing_E-201 with **763-2023_Drawing_E-201_R1**

Replace: 763-2023_Drawing_E-202 with **763-2023_Drawing_E-202_R1**

Replace: 763-2023_Drawing_E-205 with **763-2023_Drawing_E-205_R1**

Replace: 763-2023_Drawing_E-301 with **763-2023_Drawing_E-301_R1**

Replace: 763-2023_Drawing_E-302 with **763-2023_Drawing_E-302_R1**

Replace: Demolition Keynote of Drawing 763-2023_Drawing_E-101 with **“Demolish existing sidewalk as required to accommodate work by Manitoba Hydro and to accommodate installation of equipment and services included in this contract. Restore landscaping in this area to match existing upon completion of work.”**

APPENDICES

Add: Appendix B 763-2023_H58_600 Brandon Ave_Flt Study_2023

NMS SPECIFICATIONS

Section 26 12 16 Dry Type Transformers

Add: **Entire Section**

Section 26 12 19 Pad Mounted MV Distribution Transformers

Add: **Entire Section**

Section 26 13 17 Full Load Interrupter Switches to 25kV

Add: **Entire Section**

Section 26 13 20 Pad Mounted Switchgear Low Profile

Add: **Entire Section**

Section 11 11 36.10 Electric Vehicle Chargers

Revise: 2.04.1 to read: Acceptable Manufacturers: ABB, Siemens, Hitachi, **Kempower** or approved equal

CLARIFICATIONS QUESTIONS AND ANSWERS

C1: Clarification of Addendum No. 3 Item A1.5.

A1.5: Contractor shall replace existing 750kVA Manitoba Hydro transformer feeding the existing 347/600V building power distribution with new 25kV-347/600V **750kVA** transformer.

C2: Any alternative solutions shall provide redundancy to every charger cabinet by using two 25kV feeders.

Q1: Will a solution based on 600V charger still be considered?

A1: Solutions based on 600V chargers will not be considered.

Q2: Is the charger requirement still a 4:1 ratio of dispensers to chargers?

A2: Yes. Smaller dispenser to charger ratio will not be considered for the final charger configuration unless the Bidder can demonstrate that the configuration occupies same or smaller combined charger cabinet footprint (including working clearances) based on the total number of the required dispensers. Rationale for the requirement: The Owner needs to accommodate additional charging cabinets in the same room to feed up to 128 dispensers in the future.

Q3: Are either of the following options viable to avoid disturbing the soil beneath the foundation with an open trench:

- i. Coring through the foundation and install a steel sleeve?
- ii. Directional boring beneath the foundation and installing a dry sleeve to install the duct bank within?
- iii. Will the concrete encasement still be a requirement with either of the above options?

A3: In short, the proposed options are not acceptable:

- i. Contractor shall not modify the existing building grade beam.
- ii. Refer to the drawings: due to conduits joining the duct bank at various locations, this solution is not likely to be beneficial.
- iii. Concrete encasement is not required below the existing building, providing the duct bank is installed a minimum of 150mm below the grade beam. Refer to as-built drawings issued in Addendum 1 for structural details. Concrete encasement is required outside of the building envelope due the large number of trees in the area.

Q4: Will the mark-ups and detailed descriptions that are submitted by the successful bidder form part of the final contract?

A4: The mark-ups and detailed description submitted by the successful bidder will be used to update contract documents. The contract documents, once reviewed by the successful bidder, will be signed / sealed and re-issued by the Contract Administrator.

Q5: What time is allocated for this design/study work, and how would the owner's engineer integrate this into their 100% IFC drawings?

A5: The timeframe required to update the drawings will depend on the extend of the changes and will be coordinated with the successful bidder.

Q6: What drawings will the successful bidder be using for the electrical permit application?

A6: Successful bidder will be using drawings updated and signed / sealed by Contract Administrator to obtain the permits. Successful bidder will be responsible for obtaining all the necessary permits to complete the scope of work, including but not limited to building permit, electrical permit, and mechanical permit.

Q7: There is not sufficient structural steel to achieve 1.5m support spacing for the cable tray.

A7: Specification indicates the required distance between the raceway supports. It will be up to the bidder to determine means and methods to meet the requirements for the supports. Where raceway manufacturer permits alternative spacing between the supports, and where the alternative spacing addresses challenges associated with the site conditions, the Bidder may propose the respective raceway with the alterative spacing between the supports.

Q8: Please advise how the contractor is to place the new transformer in Storage 1-36 as the transformer is larger than the existing doorways

A8: If the existing double doors between the tracks area and the storage room are insufficient to transport new equipment to the Storage Room, the Bidder will be responsible for modifications to the double doors between the service room and the tracks to accommodate the equipment. If new doors are deemed to be required, door fire rating and door construction shall match existing. Existing door hardware set may be re-used. Existing lock cylinders shall be re-used.