

## **Electrical Modifications – Sir Humphrey Gilbert Building – St. John's, NL F6839-210677/A**

### **AMENDMENT # 3 ADDENDUM NO. 1**

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THE FOLLOWING AMENDMENT TO THE TENDER DOCUMENTS IS EFFECTIVE IMMEDIATELY.  
THE AMENDMENT SHALL FORM A PART OF THE CONTRACT DOCUMENTS.  
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### **ADDENDUM NO. 1**

#### **QUESTIONS AND ANSWERS:**

**Question 1:** The type of system they are proposing is not a traditional lightning protection system and it is not supported by the CSA B72:20 code. The specification indicates to install as per the CSA B72 lightning protection code. The system proposed is classified as an early streamer emission system or charge dissipation/charge transfer systems. No recognized standards body or testing agency exists for Canadian installations of these devices. Can you send the question to the consultant, as this is something I can't provide certification for at the end of the project.

**Answer 1:** The lightning protection system is to be installed as per the manufacturer's installation manual. Once the installation of the Lightning protection system is completed as per the manufacturer's installation guide then a Certificate of compliance is to be obtained from the Manufacturer based on their requirements. Please refer to below addendum.

**Question 2:** During our site visit it was noticed that there was some sort of test well located in the area that is to be excavated for the new generator conduits. Could you please provide some detail on what this is?

**Answer 2:** The test well located towards the front end of lot 46 of the parking lot is a monitoring well for groundwater sampling.

**Question 3:** On the Single line , Owners Electronic Check Meter is requested to be a Schneider PM8000 meter. Please find attached Technical Data for Eaton PWM3000 Electronic Meter. Would the PXM3000MA15-1 be acceptable?

**Answer 3:** Yes, this meter is acceptable.

**Question 4:** Is there a requirement to repair any damaged Fire proofing / Stop between levels?  
Some of the existing fire proofing is damaged will this be included in the contract?  
Is there a product specification?

**Answer 4:** There is no requirement to repair any existing damage to the fire proofing/stop. However, any damage to the fire proofing/stop as a result of the work required for this contract it is to be the responsibility of the contractor to repair to match existing. Please refer to below addendum.

## SPECIFICATION:

1. In the Specifications, **section 26 41 13**, delete clause 3.1.1 and replace with new clause 3.1.1 to read :
  - i. 3.1.1 Install lightning protection to manufacturers installation manual.
  
2. In the Specifications, **section 26 41 13**, delete clause 3.1.3 and replace with new clause 3.1.3 to read:
  - i. 3.1.3 Obtain Certificate of compliance for the Lightning protection system from the Manufacturer as per the manufacturer's requirements. Submit Certificate to Departmental Representative.
  
3. In the Specifications, **section 01 73 00**, add new clause 1.5.16 and 1.5.17 to read:
  - i. 1.5.16 Contractor is responsible to patch and repair all walls, ceilings, floors, etc. to match existing conditions where damage is created with the installation of new conduits, piping, etc. All repairs are to be to the satisfaction of Departmental Representative.
  - ii. 1.5.17 Any area where fire proofing is damaged during conduit installation, the contractor is responsible to patch and repair. Fire proofing to match existing. To be coordinated with Departmental Representative.

4. In the Specifications, **section 33 65 73**, add new clause 3.1.18 and 3.1.19 to read:

- i. 3.1.18 Where existing asphalt is removed to accommodate the new trench, generator pad and lightning protection system, it is to be replaced new in accordance with the following:
1. Minimum total compacted thickness: 75mm
  2. Performance graded asphalt cement: to AASHTO M320, grade PG 58 - 28 when tested to AASHTO R29.
  3. Mix design to be approved by Departmental Representative. Mix design to be developed by testing laboratory approved by Departmental Representative.
  4. Design of mix: by Marshall method to requirements below.
    - Marshall Stability asphalt content at 60°C kN min: 5.5
    - Flow Value (mm): 2-4
    - Air Voids in mixture, %: 3-5
    - Voids in Mineral Aggregate, % minimum: 15
    - Index of Retained stability, % minimum: 75
- ii. 3.1.19 Contractor to minimize trench excavation to allow for installation of conduits and 150mm sand coverage all around conduits. Requirements for infilling trench consist of select backfill, 200mm Class "B" granulars, 150mm class "A" granulars and 75mm asphalt topping. Select backfill to consist of hard, durable, particles of stone mixed with suitable binding material. It shall be free from flat, elongated particles and shall be well graded. When tested by means of laboratory sieves it shall fulfill requirements as follows:
- 56 mm sieve size: 100 % by weight passing
  - 16 mm sieve size: 45-80% by weight passing
  - 4.75 mm sieve size: 25-55% by weight passing
  - 1.25 mm sieve size: 10-35% by weight passing
  - 0.300 mm sieve size: 5-15% by weight passing
  - 0.075 mm sieve size: 3-8% by weight passing

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BY SUBMISSION OF ITS TENDER, THE TENDERER CONFIRMS THAT IS HAS READ AND UNDERSTANDS THE REQUIREMENTS EXPRESSED IN ALL ADDENDA AND HAS INCLUDED ALL COSTS OF THESE REQUIREMENTS IN THE TOTAL TENDER AMOUNT.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.

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