

City of Saint John

TENDER

Tender # 2024-082301T SAINT JOHN SIGN LIGHTING

Sealed tenders, hand delivered or couriered, addressed to Monic MacVicar, CCLP, CPPB, Supply Chain Management, 1st Floor – 175 Rothesay Avenue, Saint John, NB, E2J 2B4, and marked on the envelope:

“Tender # 2024-082301T SAINT JOHN SIGN LIGHTING”

will be received until 2:30:00 pm, Tuesday, April 9th, 2024 for all labour, materials, equipment and services necessary for the installation of finished, tested, balanced and properly operating sign lighting system, in accordance with the enclosed specifications, drawings, terms and conditions.

Tenders will be opened by the Tender Opening Committee, in the first-floor boardroom, 175 Rothesay Avenue, Municipal Operations Complex, immediately following the tender closing time. **Registered bidders may attend remotely via Teams invitation.**

The lowest or any tender not necessarily accepted.

**Monic MacVicar, CCLP, CPPB
Supply Chain Management**

Issued: Monday, March 18th, 2024

T E N D E R
Tender # 2024-082301T
SAINT JOHN SIGN LIGHTING

SCOPE OF WORK:

The City of Saint John is soliciting tenders from qualified bidders to provide all labour, materials, equipment and services necessary for the installation of finished, tested, balanced and properly operating sign lighting system as specified herein and as indicated on drawings.

A pre-bid site visit will be held on Monday, March 25th, 2024 at 10:30:00AM. We will meet at 20 Magazine Street. All bidders are strongly urged to attend.

SPECIFICATIONS:

See Appendix A for specifications and drawings.

TERMS AND CONDITIONS

Governing Law, Trade Treaties and Policies

This procurement will be in accordance with the laws of the province of New Brunswick and the federal laws of Canada.

This procurement is also subject to the following Policies, Legislation and Internal Trade Agreement(s) including:

- Agreement on the Opening of Public Procurement for NB and Québec
- Canadian Free Trade Agreement
- New Brunswick Procurement Act and Regulation 2014-93
- City of Saint John Strategic Procurement Policy

Submission Instructions

Sealed tenders, hand delivered or couriered, addressed to Monic MacVicar, CCLP, CPPB, Supply Chain Management, 1st Floor – 175 Rothesay Avenue, Saint John, NB, E2J 2B4, and marked on the envelope:

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will be received until 2:30:00 pm, Tuesday, April 9th, 2024 for all labour, materials, equipment and services necessary for the installation of finished, tested, balanced and properly operating sign lighting system, in accordance with the enclosed specifications, drawings, terms and conditions.

Enquiries

Bidders shall promptly examine the bid documents and report any errors, omissions or ambiguities and may direct enquiries or seek additional information in writing by email before the deadline for enquiries to the Authorized Enquiries Contact as set out below. No such communications are to be directed to anyone other than the Authorized Enquiries Contact.

Authorized Enquiries Contact

Monic MacVicar, CCLP, CPPB
Supply Chain Management
City of Saint John
Email: supplychainmanagement@saintjohn.ca

It is the Bidder's responsibility to seek clarification from the City on any matter it considers unclear. The City shall not be responsible for any misunderstanding on the part of the Bidder concerning this bid document or its process.

The City intends to confirm receipt of a bidder's communication by way of an email or facsimile in reply. If a bidder has not received a reply, the bidder may wish to resend its communication as the lack of reply may have resulted from a technical problem. The City is under no obligation to respond to enquiries or provide additional information but may do so at its sole discretion.

Responses to inquiries may be distributed to all bidders on the invitation list as having received the bid documents as of the date the response is prepared. The source of the question will not be identified in the response. Verbal information shall not be binding upon the City. Inquiries received after the deadline for enquiries will not receive a response.

Tender to be Submitted on Prescribed Form

Bidders are to submit their tender on the prescribed form contained in this document. Failure to submit on this form may result in the disqualification of the bid.

Taxes

The bid price shall be all taxes extra. The City of Saint John shall be invoiced for and pay all applicable taxes related to this bid.

Schedule for the Bid Process

Issue Date	Monday, March 18 th , 2024
Pre-Bid Site Visit	Monday, March 25th, 2024 at 10:30:00 am ADT
Deadline for Enquiries	Wednesday, March 27 th , 2024 at 4:00:00 pm, ADT
Deadline for Issuing Addenda	Tuesday, April 2 nd , 2024 at 4:00:00 pm, ADT
Submission Deadline	Tuesday, April 9 th , 2024 at 2:30:00 pm, ADT
Date of Award	TBD

The Schedule for the bid process is tentative only and may be changed by the City in its sole discretion.

Advisory Notice(s)

Periodically, the City of Saint John is required to issue clarification notices to a bid document in the form of Advisory Notices. Normally these notifications will not have a direct bearing on the cost of a project and will not influence bidding.

Bidders are responsible for obtaining all advisory notice(s) issued by the City. Advisory Notice(s) may be obtained from the City's website (www.saintjohn.ca) under the Menu option, City Hall header, then "Tender and Proposals".

Bidders are instructed to sign the Advisory Notice and return it either by fax to (506) 658-4742 or email to supplychainmanagement@saintjohn.ca prior to the closing date. Failure to comply with the instructions on an advisory may result in rejection of the bid.

Addenda

Periodically, the City of Saint John is required to issue notification of changes or corrections to a bid document by way of addenda. Normally these notifications will have direct bearing on the cost of a project and will influence bidding. Therefore, it is important that the City have assurances that bidders have in-fact received the notification(s).

Bidders are responsible for obtaining all addenda issued by the City. Addenda may be obtained from the City's website (www.saintjohn.ca) under the Menu option, City Hall header, then "Tender and Proposals".

Bidders are required to sign and include all addenda with their bid submission.

Failure to include a copy of all signed addenda with the bid submission may result in rejection of the bid regardless of whether or not the changes noted in the addendum are included in the bid submission.

Mandatory Requirements

Each submission will be evaluated to ensure that it complies with the mandatory requirements and may be rejected if it does not comply. The evaluation of mandatory requirements will confirm that:

- the submission was received prior to the applicable Submission Deadline;
- the bid submission is signed;
- the bid submission is legible;
- the bid submission does not contain a substantive qualification or conditions that are contrary to the terms of the bid document;
- the bid submission does not contain a change in price that was not initialled by the person who signed the submission; and
- the bid submission is in English;

Payment

Payment shall be based on Net 45 Days from date of invoice or receipt of goods/services, whichever is later. Invoices can either be mailed to: City of Saint John, Accounts Payable Department, P.O. Box 1971, Saint John, NB, E2L 4L1, or by email to the Accounts Payable department (accounts payable@saintjohn.ca). Vendors are to ensure invoices are not sent both ways.

Pricing

The tender prices shall include all installation wages, fringe benefits, insurance, transportation, delivery, duty, working tools, equipment costs, and any other charges incurred in order to provide required materials and/or services.

Holdback

A Hold back of 10% of all monies due to the contractor will be retained by the City until 60 days after the substantial completion date of the work, approved by the project manager, and receipt of a statutory declaration.

Substitutes

Substitute products will not be considered (where applicable).

Verbal Agreement

No verbal agreement or conversation with any officer, agent or employee of the owner either before or after execution of the contract shall effect or modify any of the terms or obligations contained in any of the documents comprising the said contract.

Fax Tenders

Tenders received by fax WILL NOT be accepted.

Late Bids

Bids received after the time and date as shown in this document shall not be considered.

Cancellation Clause

In the event that the successful bidder does not comply with the specifications and terms and conditions of this tender, at any time throughout the duration of the contract, the City of Saint John reserves the right to cancel the contract in its entirety.

Basis for Award

A The city does not limit itself to accepting the lowest, or any tender submitted, but reserves the right to award the tender in any manner deemed to be in the City's best interest. It is the City of Saint John's intention to award this agreement to one Vendor.

No guarantee

The City makes no guarantee as to the volume of the Deliverables.

Acceptance, Revocation and Rejection Of Tenders

The bidder agrees that his tender is a firm offer to supply the goods and/or services specified herein at the quoted price, and in accordance with the terms and conditions herein contained. The bidder may revoke his tender at any time prior to the time fixed for tender opening by delivering, or causing to be delivered, written notice of revocation to the designated official at the City of Saint John. Revocation will take effect from the time the notice is actually received. A notice of revocation will not be accepted after the time fixed for tender opening.

The bid shall not be restricted by a statement added to the Tender Form, or by a covering letter, or by alterations to the tender form as supplied, unless otherwise provided herein and further, a tender form that has been altered in any way may be deemed to be a non-confirming bid and, therefore, rejected. Bidders shall be allowed to attach descriptive literature; whose sole purpose is to amplify the bid.

Due Diligence

In the event that a health and safety offence is committed, the onus falls on the employer to prove that it exercised due diligence (i.e. did everything it reasonably could) in order to avoid the offence.

When hiring contractors, the City of Saint John is responsible for ensuring compliance with Health and Safety Legislation and must make sure that the appropriate accident prevention systems are implemented in the workplace.

Therefore, if any contractor is found to be working in an unsafe manner, or outside of current legislation, he will be made to stop work immediately. Any losses which may arise as a result of this work stoppage are the responsibility of the contractor.

Failure to comply with current legislation on the part of the contractor, may lead to cancellation of this contract and any bid deposits that may be in place.

Insurance

The successful contractor shall provide evidence of the following insurance coverage:

General Liability with minimum limits of two million dollars, (\$2,000,000.00). The policy shall include:

- *operations of the contractor in connection with this tender;
- *products and completed operations coverage;
- *contractual liability with respect to this tender;
- *the City of Saint John added as an additional insured;
- *a cross liability clause;
- *non-owned automobile;
- *thirty (30) days notice of cancellation of this policy "will" be given to the City of Saint John, by the insurers;

Standard automobile insurance for owned automobiles with at least the minimum limits allowed by law. This coverage is to remain in effect for the entire time frame of the contract.

WorksafeNB Certificate and Business Corporations Act Certificate

New Brunswick Tenderers shall provide to the City a WorkSafeNB certificate which confirms proper registration and good standing with WorkSafeNB and a Business Corporations Act Certificate which confirms proper registration and good standing with the Province of New Brunswick - Corporate Affairs within five (5) Working Days following the City's notice of selection.

Out-of-province Tenderers shall provide to the City a WorkSafeNB certificate which confirms proper registration and good standing with WorkSafeNB or a letter or certificate issued under the equivalent applicable legislation in the province of origin of the Tenderer confirming extension of coverage from said legislation to the Province of New Brunswick for the term of the Contract. Subject to paragraph c), out-of-province Tenderers shall also provide a Business Corporations Act Certificate which confirms proper registration and good standing with the Province of New Brunswick - Corporate Affairs within five (5) Working Days following the City's notice of selection.

Tenderers from Nova Scotia may submit the appropriate Business Corporations Act Certificate from the Province of Nova Scotia.

Reserved Rights

The City reserves the right to:

- a) Reject an unbalanced bid submission. For the purpose of this section, an unbalanced bid submission is a bid submission containing a unit price which deviates substantially from, or does not fairly represent reasonable and proper compensation for the unit of work bid or one that contains prices which appear to be so unbalanced as to adversely affect the interests of the City.

The City reserves the right to use other bids submitted in response to this bid solicitation or for other like or similar work as a guideline in determining if a bid is unbalanced.

- b) Amend or modify the scope of the Work, and/or cancel or suspend the bid award, at any time for any reason;
- c) Require bidders to provide additional information after the submission deadline to support or clarify their bid submission;
- d) Not accept any or all bids;
- e) Not accept a bid submission from a bidder who is itself, or whose principals, owners or directors are also principals, owners or directors of another entity which is, involved in litigation, arbitration or any other similar proceeding against the City;
- f) Reject any or all bid submissions without any obligation, compensation or reimbursement to any bidder or any of its team members;
- g) Withdraw this bid solicitation and cancel or suspend the bid process;
- h) Extend, from time to time, any date, any time period or deadline provided in this bid solicitation (including, without limitation, the submission deadline), upon written notice to all bidders;
- i) Assess and reject a bid submission on the basis of:
 - (i) information provided by references;
 - (ii) the bidder's past performance on previous contracts;
 - (iii) the information provided by a bidder pursuant to the City exercising its clarification rights under this bid process;
 - (iv) the bidder's experience with performing the type and scope of work specified;
 - (v) other relevant information that arises during this procurement process;
- j) Waive formalities and accept bids which substantially comply with the requirements of this bid solicitation;
- k) Verify with any bidder or with a third party any information set out in a bid submission;
- l) Disqualify any bidder whose bid submission contains misrepresentations or any other inaccurate or misleading information;
- m) Disqualify any bidder who has engaged in conduct prohibited by the bid solicitation;
- n) Make changes, including substantial changes, to the bid solicitation provided that those changes are issued by way of addenda in the manner set out in this bid document;
- o) Select any bidder other than the bidder whose bid submission reflects the lowest cost to the City;

- p) Cancel this procurement process at any stage, for any reason;
- q) Cancel this procurement process at any stage and issue a new bid solicitation for the same or similar deliverables;
- r) Accept any bid submission in whole or in part;
- s) Waive minor non-compliance with the mandatory requirements of the bid solicitation and accept the bid submission; or
- t) Accept a bid submission which contains the following errors:
 - (i) error in mathematics – whether this involves the extension of a unit price or an error in addition, the mistake will be corrected and the correct total will be used for evaluation purposes and will be binding on the bidder.
 - (ii) conflict between the written and numerical bid prices. In all cases, the total bid price will be corrected to reflect the written bid price, whether lump sum or unit price (where applicable).
 - (iii) failure to include the contingency allowance in the total bid price (where applicable). If the contingency allowance was not included in the addition, the bid price shall be corrected to reflect its inclusion.

and these reserved rights are in addition to any other express rights or any other rights which may be implied in the circumstances and the City shall not be liable for any expenses, costs, losses or any direct or indirect damages incurred or suffered by any bidder or any third party resulting from the City exercising any of its express or implied rights under this bid solicitation.

By submitting a bid, the bidder authorizes the collection by the City of the information set out at paragraph i) in the manner contemplated in that subparagraph.

Limitation of Liability and Waiver

Each bidder, by submitting a bid, agrees that:

- a) Neither the City nor any of its employees, agents, advisors or representatives will be liable, under any circumstances, for any Claim arising out of this procurement process including but not limited to costs of preparation of the bid submission, loss of profits, loss of opportunity or for any other Claim; and
- b) The bidder waives any Claim for any compensation of any kind whatsoever, including Claims for cost of preparation of the bid submission, loss of profit or loss of opportunity by reason of the City's decision to not accept the bid submitted by the bidder, to award a Contract to any other bidder or to cancel this procurement process, and the bidder shall be deemed to have agreed to waive such right or Claim.

Validity Period

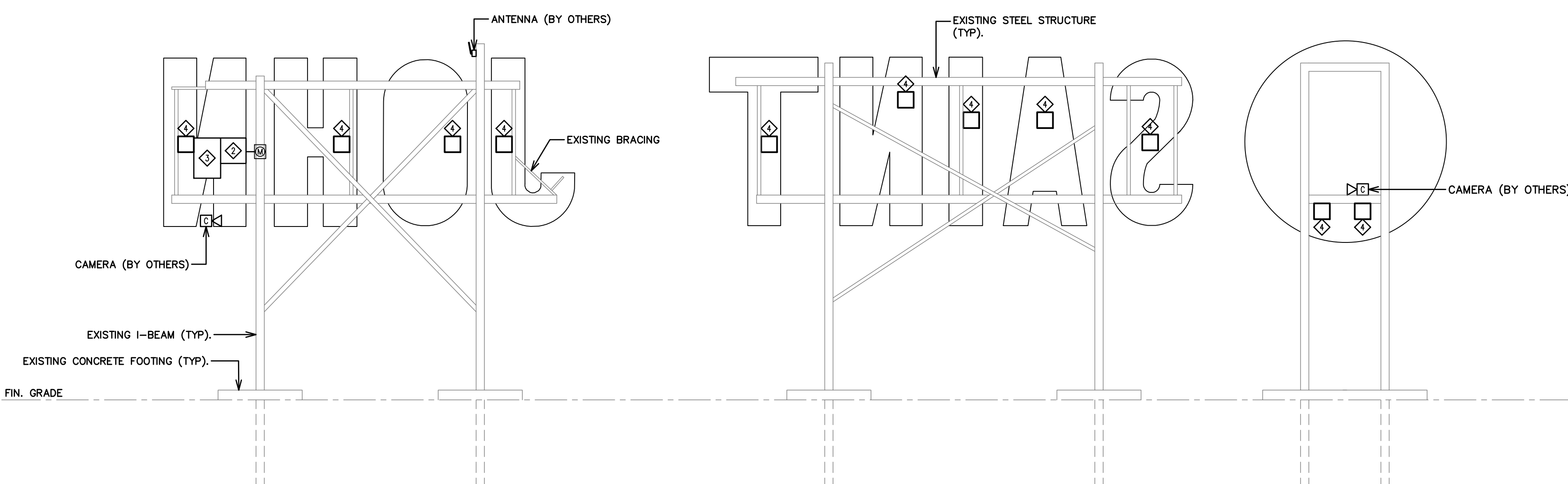
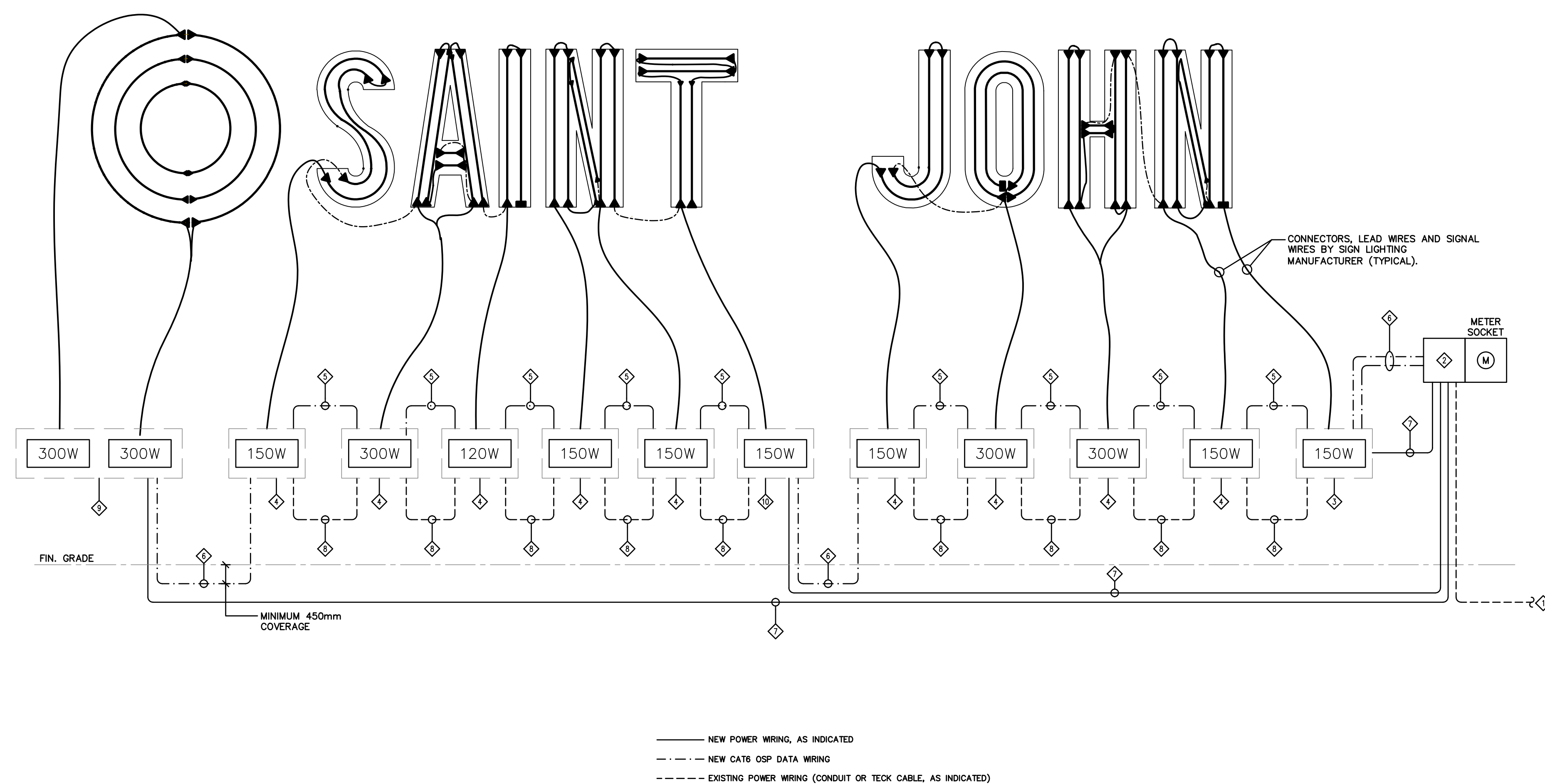
The bid submission constitutes an offer which shall remain open and irrevocable until 90 days after the submission deadline.

Minor Irregularities

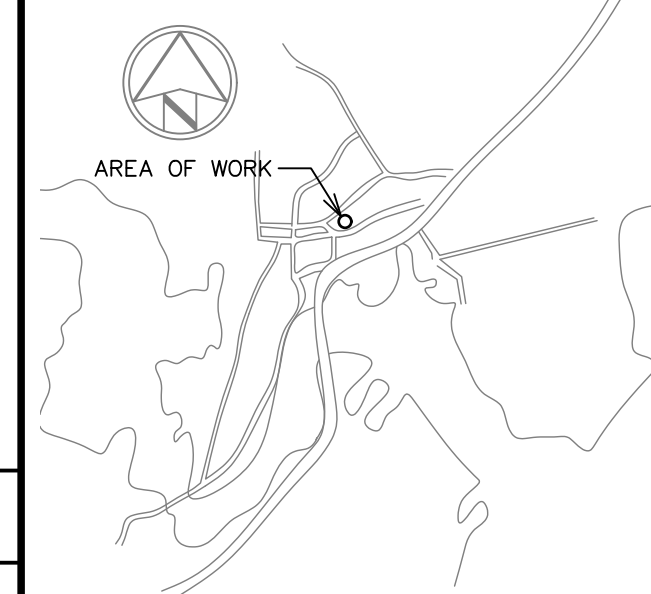
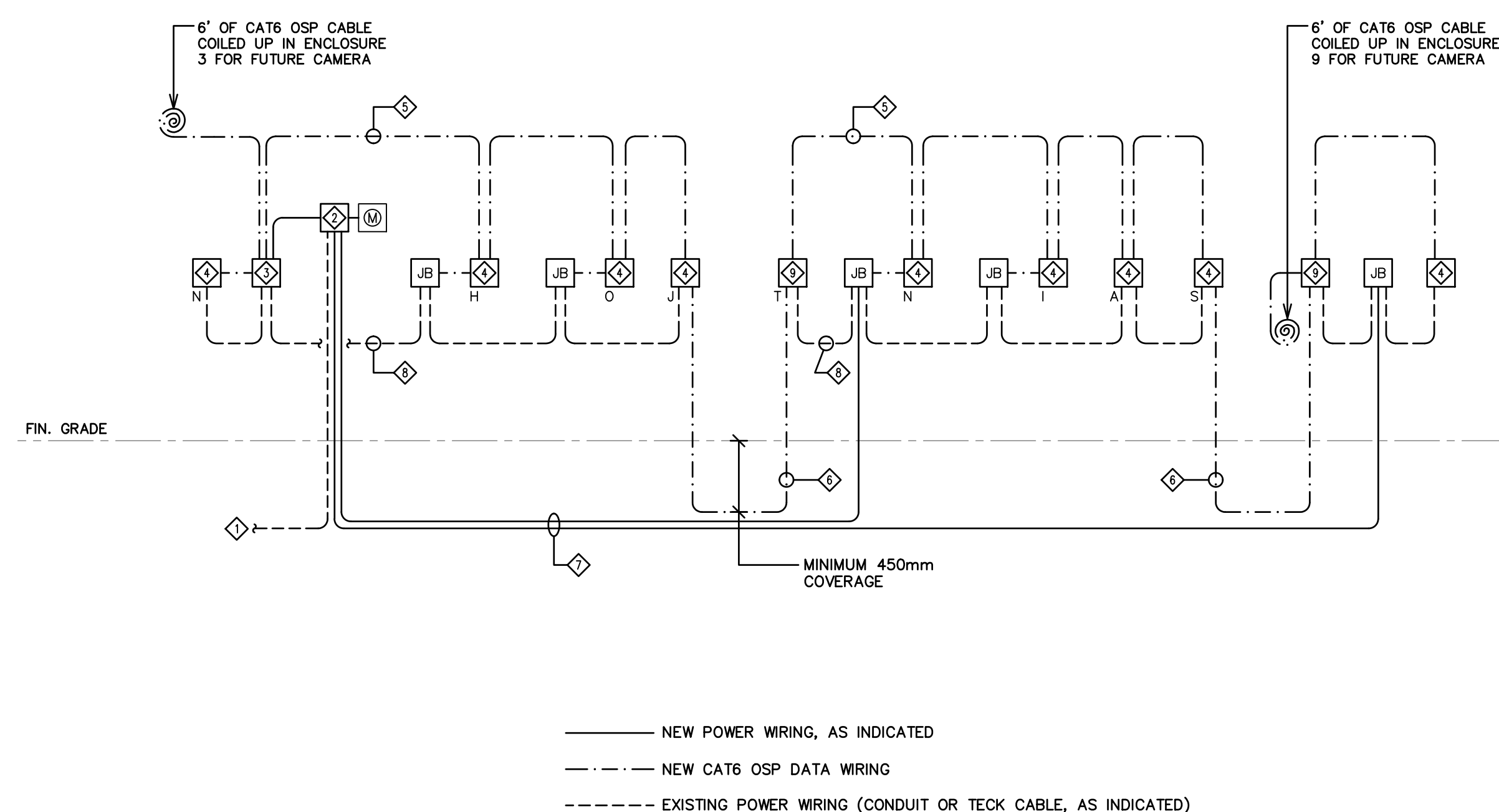
The City of Saint John reserves the right to waive minor non-compliances in accordance with Section 120 of the Province of New Brunswick's Regulation 2014-93 under the Procurement Act.

APPENDIX A – SPECIFICATIONS

**TENDER No. 2024-082301T
SAINT JOHN SIGN LIGHTING**



- GENERAL NOTES:**
1. SPULCE WIRE MUST BE WATERPROOF SEALED (RECOMMEND USING 5 TERMINAL WAGO SPULCE WIRE CONNECTOR AND GELBOX).
 2. WIRE MUST BE AT LEAST #18 AWG AT 120V MAXIMUM LENGTH OF 10m (WIRE GAUGE IS CALCULATED BASED OFF POWER CONSUMPTION AND DISTANCE OF THE SIGN FROM THE POWER SUPPLIES, IF FURTHER DISTANCE IS REQUIRED, CONTACT TECHNICAL SUPPORT WITH LENGTHS TO DETERMINE SIZE OF WIRE REQUIRED).
 3. CONNECTION WIRE BY ELECTRICAL CONTRACTOR/SIGN INSTALLER.
 4. DMX, SPI WIRES SHALL BE SHIELDED.
 5. CONTRACTOR IS RESPONSIBLE TO REMOVE, WASH AND CLEAN LEXAN LENSES. CAREFUL HANDLING OF LENSES SHALL BE EXERCISED.



0	ISSUED FOR TENDER	2024/03/14	
NO:	REVISIONS	DATE mm/yy/yy	III

**CITY OF SAINT JOHN
SIGN LIGHTING
20 MAGAZINE STREET
SAINT JOHN, N.B.**

SCALE:	DATE:
AS NOTED	MARCH 2024
DRAWN BY:	DRAWING NO:
M.J.G.	E-1
CHECKED BY:	
B.C.	

1
E-2 NETWORK DIAGRAM

1. GENERAL REQUIREMENTS

1.1. THESE ELECTRICAL SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH: GENERAL REQUIREMENTS, ELECTRICAL DRAWINGS AND OTHER CONTRACT DOCUMENTS.

1.2. SCOPE OF WORK

1.2.1. THIS CONTRACTOR SHALL PROVIDE ALL LABOUR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF COMPLETELY FINISHED, TESTED, BALANCED AND PROPERLY OPERATING SIGN LIGHTING SYSTEM AS SPECIFIED HEREIN AND AS INDICATED ON DRAWINGS. THE INTENT IS TO PROVIDE FOR FINISHED WORK COMPLETE IN ALL ESSENTIALS AS CALLED FOR BY THE CONTRACT DOCUMENTS, IN A MANNER CONSISTENT WITH GOOD WORKMANSHIP.

1.2.2. THE WORK INCLUDES, BUT IS NOT LIMITED TO:

1.2.2.1. WIRING OF EQUIPMENT SUPPLIED BY OTHERS.

1.2.2.2. INSTALLATION OF LED NEON FLEX AND ACCESSORIES.

1.2.2.3. DATA COMMUNICATION (RACEWAY) SYSTEM.

1.2.2.4. COORDINATE AND INSTALL PRODUCT AS PER SIGN LIGHTING SUPPLIER.

1.2.2.5. PROVIDE LETTER SIZES TO LIGHTING MANUFACTURER FOR PRODUCTION OF LED STRIPS AND TRACKS.

1.2.2.6. PROVIDE COMMISSIONING AND TRAINING.

1.3. CODES AND STANDARDS

1.3.1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CSA C22.1-21, CANADIAN ELECTRICAL CODE, PART 1, (2021 EDITION) AND THE NATIONAL BUILDING CODE OF CANADA 2015.

1.4. PERMIT AND BY-LAWS

1.4.1. OBTAIN PERMITS AND CERTIFICATIONS PRIOR TO START OF WORK. SUBMIT DRAWINGS TO INSPECTION AUTHORITY. COORDINATE SERVICES WITH BELL ALIANT AND SAINT JOHN ENERGY. PAY ALL ASSOCIATED FEES.

1.4.2. ALL WORK PERFORMED BY THIS CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES, LOCAL BY-LAWS, STANDARDS AND THEIR AMENDMENTS.

1.5. SITE VISIT

1.5.1. PRIOR TO TENDER CLOSE, THIS CONTRACTOR SHALL VISIT SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS. NO ALLOWANCE SHALL BE MADE FOR PROBLEMS REVEALED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS THAT COULD REASONABLY HAVE BEEN ASCERTAINED BY A CAREFUL INSPECTION.

1.6. COORDINATION OF WORK

1.6.1. THIS CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE SIGN LIGHTING SUPPLIER AND THE CITY OF SAINT JOHN REPRESENTATIVE.

1.6.2. COOPERATE WITH OWNER'S FORCES IN CARRYING OUT WORK. REPORT ANY DEFICIENCIES OR DEFECTS IN WORK PERFORMED BY OTHERS THAT AFFECT THIS CONTRACT'S WORK TO ENGINEER IMMEDIATELY.

1.6.3. WHERE WORK IS CARRIED OUT IN EXISTING PREMISES, NOTIFY CITY OF SAINT JOHN AT LEAST 72 HOURS IN ADVANCE OF ANY NECESSARY INTERRUPTIONS IN SERVICES OR ACCESS.

1.7. GUARANTEE

1.7.1. THIS CONTRACTOR SHALL PROVIDE, IN WRITING, A GUARANTEE COVERING ALL LABOR AND MATERIAL FOR A PERIOD OF TWO (2) YEARS FROM DATE OF SUBSTANTIAL COMPLETION. REPAIR AND MAKE GOOD ALL DEFECTS DURING THE GUARANTEE PERIOD, INCLUDING ANY DAMAGE TO BUILDING INCURRED AS A RESULT OF FAILURE OF ELECTRICAL WORK AND/OR EQUIPMENT INSTALLED.

1.8. DRAWINGS

1.8.1. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. MAINTAIN ONE SET OF PLANS ON WHICH SHALL BE CLEARLY NOTED ALL CHANGES OR DEVIATIONS FROM THE CONTRACT, AND SUBMIT THEM AT THE END OF THE PROJECT MARKED "AS-BUILT", SIGNED AND DATED BY THIS CONTRACTOR. THESE DRAWINGS SHALL BE KEPT ON SITE DURING CONSTRUCTION, UPDATED, AND MADE AVAILABLE FOR REVIEW BY ENGINEER, IF REQUESTED.

1.9. EXTRA WORK

1.9.1. NO ALLOWANCE SHALL BE MADE BEYOND CONTRACT PRICE UNLESS CONTRACTOR RECEIVES SIGNED APPROVAL IN ACCORDANCE WITH GENERAL CONDITIONS.

1.10. SHOP DRAWINGS

1.10.1. THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE GENERAL REQUIREMENTS. WORK SHALL NOT PROCEED AND EQUIPMENT/MATERIAL SHALL NOT BE ORDERED UNTIL THE SHOP DRAWINGS HAVE BEEN RETURNED STAMPED AND SIGNED. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION OF CHECKING THE DRAWINGS THEMSELVES OR FURNISHING THE MATERIALS SPECIFIED.

1.10.2. WHEN SUBMITTED, SHOP DRAWING MUST BEAR CONTRACTOR'S STAMP REPRESENTING THAT THEY HAVE DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, CATALOGUE NUMBERS AND SIMILAR DATA AND THAT THEY HAVE CHECKED AND COORDINATED EACH SHOP DRAWING WITH REQUIREMENTS OF WORK AS INDICATED ON DRAWINGS AND SPECIFICATIONS.

1.10.3. SHOP DRAWINGS REQUIRED FOR: LUMINAIRES, CONTROLS, INFORMATION REQUIRED: MANUFACTURER, MODEL, DIMENSIONS, CONSTRUCTION DETAILS, ACCESSORIES, INSTALLATION DETAILS, CAPACITIES, PERFORMANCE DATA, FINISHES, INCLUDE WIRING SINGLE LINE AND SCHEMATIC DIAGRAMS WHERE APPLICABLE.

1.10.4. ALL MATERIAL SUPPLIED SHALL BE NEW AND CARRY C.S.A. CERTIFICATION OR OTHER CERTIFICATIONS APPROVED BY LOCAL INSPECTION AUTHORITY.

1.11. OPERATION AND MAINTENANCE INSTRUCTIONS

1.11.1. THIS CONTRACTOR SHALL INSTRUCT THE OWNER IN OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND SYSTEMS INSTALLED. ALL CONTROL AND FUNCTIONALITY FEATURES SHALL BE THOROUGHLY EXPLAINED. THREE COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS, TOGETHER WITH ALL APPROVED SHOP DRAWINGS AND SPARE PARTS LIST FASTENED IN A BINDER, SHALL BE SUBMITTED TO THE OWNER. MANUALS COMPLETE WITH:

—DETAILS OF SIGN ELEMENTS, CONSTRUCTION FEATURES, COMPONENT FUNCTION AND MAINTENANCE REQUIREMENTS, TO PERMIT EFFECTIVE START-UP, OPERATION, MAINTENANCE, REPAIR, MODIFICATION, EXTENSION AND EXPANSION OF ANY PORTION OR FEATURE OF INSTALLATION.

—TECHNICAL DATA, PRODUCT DATA, SUPPLEMENTED BY BULLETINS, DESCRIPTIONS OF ITEMS, AND PARTS LISTS, ADVERTISING OR SALES LITERATURE IS NOT ACCEPTABLE.

—WIRING AND SCHEMATIC DIAGRAMS AND PERFORMANCE CURVES.

—NAME AND ADDRESS OF LOCAL SUPPLIERS.

—COPY OF REVIEWED SHOP DRAWINGS.

—COPY OF ALL TEST CERTIFICATES.

1.12. DISPOSAL

1.12.1. ADVISE OWNER OF AVAILABILITY OF SURPLUS MATERIAL. TURN OVER ITEMS REQUESTED BY OWNER AND DISPOSE OF REMAINDER IN ACCORDANCE WITH ALL BY LAWS AND LOCAL AUTHORITIES HAVING JURISDICTION.

1.13. DEMOLITION

1.13.1. DISCONNECT AND REMOVE ALL ENCLOSURES, COMPONENTS, EQUIPMENT AND EXPOSED RACEWAYS, WIRES AND CABLES, BACK TO SOURCE OF SUPPLY, MAKE REDUNDANT BY THIS WORK. MAKE SAFE ANY REMAINING LIVE CONNECTIONS.

1.13.2. RELOCATE EXISTING RACEWAYS, AS REQUIRED TO MAINTAIN REASONABLE ACCESSIBILITY AND TO FACILITATE INSTALLATION OF TOTAL PROJECT WORK.

1.13.3. REVIEW LOADINGS ON EACH AFFECTED CIRCUIT PRIOR TO START OF CONSTRUCTION AND ADJUST AS REQUIRED.

1.13.4. REMOVE CONTAMINATED OR DANGEROUS MATERIALS AS DEFINED BY AUTHORITIES HAVING JURISDICTION RELATING TO ENVIRONMENTAL PROTECTION FROM SITE AND DISPOSE OF IN A SAFE MANNER TO MINIMIZE DANGER AT SITE OR DURING DISPOSAL.

2. BASIC MATERIAL AND METHODS

2.1. EQUIPMENT AND PROPERTY

2.1.1. ANY ALTERNATE PRODUCT PROPOSED SHALL MEET SAME STANDARDS AS PRODUCT SPECIFIED BUT SHALL BE CONSIDERED ACCEPTABLE ONLY IF APPROVED PRIOR TO INSTALLATION BY ENGINEER. SUCH APPROVAL WILL NOT BE UNREASONABLY WITHHELD.

2.1.2. SPECIFIED PRODUCTS PROVIDED BY THIS CONTRACTOR SHALL BE NEW AND CAPABLE OF PROPER OPERATION. UNSPECIFIED PRODUCTS PROVIDED SHALL BE OF QUALITY BEST SUITED TO THEIR PURPOSE, CSA OR LOCAL INSPECTION AUTHORITY APPROVED AND CAPABLE OF EXCEEDING THE SPECIFICATIONS.

2.1.3. REUSE EXISTING PRODUCTS WHICH MEET SPECIFICATIONS WHEREVER PRACTICABLE.

2.1.4. CLEAN VISIBLE PORTIONS OF ALL SIGN LETTERS (INSIDE AND OUT) TO RESTORE FACTORY FINISH.

2.1.5. PROTECT WORK AND OWNER'S PROPERTY FROM DAMAGE THAT MAY ARISE AS A RESULT OF THIS CONTRACTOR'S PERFORMANCE OF WORK. PROMPTLY MAKE GOOD ANY DAMAGES TO WORK AND OWNER'S PROPERTY ARISING FROM THIS CONTRACTOR'S PERFORMANCE OF WORK.

2.1.6. ARRANGE DELIVERIES AND STORAGE WITH OWNER AND AUTHORITIES HAVING JURISDICTION AS APPROPRIATE. PROTECT NEW AND REUSED MATERIALS FROM ABUSE, DAMAGE AND ENVIRONMENTAL CONDITIONS WHICH THEY ARE NOT INTENDED TO WITHSTAND. NOTWITHSTANDING FOREGOING, FOLLOW MANUFACTURER'S RECOMMENDATIONS.

2.1.7. ELECTRICAL EQUIPMENT SHALL BE CERTIFIED BY AN ACCREDITED CERTIFICATION ORGANIZATION AND BEAR THAT ORGANIZATION'S CERTIFICATION MARK AS EVIDENCE OF HAVING CONFORMED TO THE APPROPRIATE CANADIAN STANDARDS ASSOCIATION (CSA) STANDARDS ESTABLISHED UNDER THE PROVISIONS OF THE CANADIAN ELECTRICAL CODE.

2.1.8. LOCKOUT AND TAGOUT ALL ELECTRICAL AND OTHER EQUIPMENT BEFORE PERFORMING WORK AS PER CAN/CSA 2460-13.

2.2. WIRING METHODS

2.2.1. FOR POWER WIRING, MAINTAIN PHASE SEQUENCE AND COLOR CODING THROUGHOUT. COLOR CODING TO CSA C22.1.

2.2.2. LOCATE, DIMENSION AND MAKE ELECTRICAL SERVICES OPENINGS. PROVIDE NECESSARY SLIDES, JOINTS, THROCKERS AND COVERS.

2.2.3. DRILL AND PROVIDE ANCHORS AS REQUIRED FOR EXPANSION BOLTS, HANGER RODS, BRACKETS AND SUPPORTS.

2.3. TESTING

2.3.1. MEGGER CIRCUITS UP TO 350V WITH A 500V INSTRUMENT.

2.3.2. MEGGER CIRCUITS BETWEEN 350V TO 600V WITH A 1000V INSTRUMENT. CHECK RESISTANCE TO GROUND BEFORE ENERGIZING ANY PART OF THE WORK.

2.3.3. TEST ALL COMPONENTS AND CONTROLS FOR CORRECT OPERATION AND ABSENCE OF SHORTS OR GROUNDS.

2.3.4. PUT EQUIPMENT AND SYSTEMS IN SERVICE AS MAY BE REQUESTED BY ENGINEER FOR TRIAL USE PROVIDED NO HAZARDOUS DAMAGE WILL RESULT NOR GUARANTEES VOIDED.

2.3.5. MEASURE PHASE VOLTAGES AT LOADS AND ADJUST TRANSFORMER TAPS TO ACHIEVE A LOAD VOLTAGE OF 115-120V.

2.3.6. CONTRACTOR SHALL PROVIDE ACCESS TO ALL EQUIPMENT FOR INSPECTION.

3. CONDUIT AND FITTINGS

3.1. SEAL ALL CONDUITS WHICH ENTER ENCLOSURES IN ACCORDANCE WITH CEC RULE 22-302.

3.2. SUPPORT ALL BOXES INDEPENDENTLY OF CONNECTING CONDUITS.

3.3. DO NOT USE WIRE LASHING OR PERFORATED STRAPPING TO SUPPORT OR SECURE RACEWAYS (OR CABLES).

3.4. PVC CONDUIT SHALL BE USED FOR ALL WORK.

3.5. USE ALUMINUM CHANNELS AS DESCRIBED IN SECTION 10: SIGN

4. WIRE AND CABLE

4.1.1. WIRING:

4.1.1.1. TECK 90 CABLE.

4.1.2. RW90 IN RIGID PVC CONDUIT.

4.1.3. RW90 IN LIQUID TIGHT FLEXIBLE CONDUIT FOR CONNECTION TO SIGN EQUIPMENT.

4.1.4. CONDUCTORS: #12 RW90, 600V, CU, MINIMUM, IN EMT CONDUIT.

4.2. ASSURE THAT ALL CONDUCTORS ARE SIZED FOR MAXIMUM VOLTAGE DROP:

4.2.1. BRANCH CIRCUITS — MAX. 2%

4.2.2. PANEL FEEDERS — MAX. 2%

4.2.3. DISTRIBUTION — MAX. 1%

4.3. COMMUNICATIONS CABLES SUPPLIED AND INSTALLED BY THIS CONTRACTOR.

4.4. ALL SOLID COPPER CONDUCTORS WITH THERMOPLASTIC INSULATION (TYPE RW90, 600V) BRANCH WIRING SHALL BE MINIMUM #12 AWG (MAXIMUM 70' [21.4m]); #10 AWG (MAXIMUM 120'[36.6m]); FOR RUNS EXCEEDING 120'[36.6m] VOLTAGE DROP SHALL BE CALCULATED AT THE MAXIMUM OF 2% #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED COPPER. USE CONNECTORS, CLAMPS AND SUPPORTS TO SUIT.

5. OUTLET, PULL & JUNCTION BOXES

5.1. PROVIDE WEATHERPROOF TYPE 4X AND 3R PVC SINGLE GANG BOXES FOR FLUSH INSTALLATION OF ALL DEVICES AND COMMUNICATIONS OUTLETS AS INDICATED. EQUIP ALL BOXES WITH LOCKABLE HINGED COVERS.

5.2. PROVIDE SINGLE GANG OUTLET BOXES FOR COMMUNICATIONS AND POWER OUTLETS C/W COVERPLATE TO SUIT.

5.3. SUPPORT ALL BOXES INDEPENDENTLY OF CONNECTING CONDUITS.

6. WIRING DEVICES

6.1. INSTALL ELECTRICAL AND COMMUNICATIONS OUTLETS IN THE WEATHERPROOF ENCLOSURE NOTED ABOVE:

6.1.1. POWER RECEPTACLE: QTR

6.1.2. COMMUNICATIONS OUTLETS: RJ45

6.2. GROUND FAULT AND DUPLEX RECEPTACLES:

6.2.1. ACCEPTABLE RECEPTACLE MANUFACTURERS: COOPER, HUBBELL, LEVITON, PASS AND SEYMOUR.

6.2.2. GROUND FAULT RECEPTACLES TO MEET CSA 22.2-144; 15A, 125V

6.3. PROVIDE COVER PLATES FROM ONE MANUFACTURER FOR EACH TYPE OR ASSEMBLY OF OUTLETS. OPENINGS TO SUIT TYPE AND GANGING OF DEVICES

6.4. THERMOPLASTIC COVER PLATES FOR WIRING DEVICES MOUNTED IN A FLUSH-MOUNTED OUTLET BOX.

7. GROUNDING

7.1. THE ENTIRE ELECTRICAL SYSTEM, AS PERTAINS TO THIS INSTALLATION, SHALL BE GROUNDED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE SECTION 10 AND LOCAL AUTHORITY HAVING JURISDICTION OVER INSTALLATION.

7.2. MAKE GROUNDING CONNECTIONS IN RADIAL CONFIGURATION ONLY, WITH CONNECTIONS TERMINATING AT SINGLE GROUNDING POINT. AVOID LOOP CONNECTIONS.

8. LIGHTING

8.1. PROVIDE LIGHTING AS INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED UNDER THIS SECTION. THESE SHALL BE, COMPLETE WITH ALL NECESSARY EQUIPMENT FOR A COMPLETE AND FINISHED INSTALLATION.

8.2. ANY REQUEST FOR ALTERNATE MANUFACTURER SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL. 10 DAYS PRIOR TO TENDER CLOSE. IF AN ALTERNATE MANUFACTURER IS NAMED, IT IS MANDATORY THAT THE LUMINAIRE BE EQUIVALENT IN ALL RESPECTS, I.E. CONTROLLER, DRIVERS, PERFORMANCE, CONSTRUCTION QUALITY, ETC. ANY REQUEST FOR ALTERNATE SHALL BE READY TO PROVIDE A MOCK-UP INSTALLATION OF THEIR PRODUCT, PER REQUEST BY THE CITY OR ENGINEER.

8.3. COORDINATE INSTALLATION WITH LIGHTING MANUFACTURER'S REPRESENTATIVE.

8.4. THIS CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING LIGHTING, CONDUIT, WIRING, BALLASTS AND BOXES AFFECTED UNDER NEW WORK.

9. DATA COMMUNICATION SYSTEM

9.1. DATA CABLEING:

9.1.1. PROVIDE CAT-6 DATA CABLEING IN CONDUIT AS IDENTIFIED ON DRAWINGS.

9.1.2. MINIMUM SYSTEM PERFORMANCE: CATEGORY-6, OSP OUTDOOR RATED CABLE.

9.1.3. PROVIDE PERMANENT LABELS ON EACH END OF EVERY CABLE TO UNIQUELY IDENTIFY CABLES.

9.1.4. ACCEPTABLE MANUFACTURERS: BELDEN, OR APPROVED EQUAL.

9.2. DATA JACKS:

9.2.1. PROVIDE CAT-6 DATA JACKS IN WEATHERPROOF ENCLOSURE AS IDENTIFIED ON DRAWINGS AND NETWORK DIAGRAM.

9.2.2. EIGHT (8) CONDUCTOR JACKS AS INDICATED.

9.2.3. FULLY COMPLIANT WITH ALL REQUIREMENTS FOR CATEGORY-6.

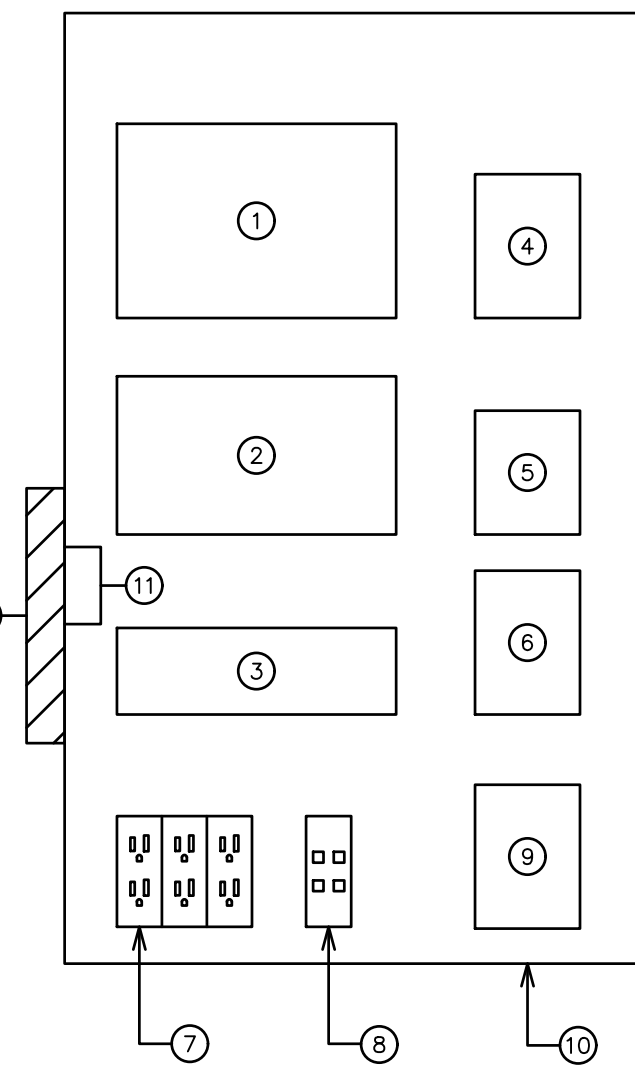
9.2.4. KEYSTONE 2-PORT FRAME WITH IDENTIFICATION LABEL MODULAR JACKS.

9.2.5. SUITABLE FOR SURFACE MOUNT INSTALLATION.

9.2.6. ACCEPTABLE MANUFACTURERS: BELDEN, OR APPROVED EQUAL.

N.T.S.

2
E-2 TYPE 4X ENCLOSURE ARRANGEMENT



- 1 8 PORT MANAGED POE SWITCH (BY CITY OF SAINT JOHN)
- 2 MX96 CONTROLLER
- 3 POWER SUPPLY
- 4 SX2 DECODER
- 5 MINI PC
- 6 NANO BEAM (BY CITY OF SAINT JOHN)
- 7 3 SINGLE GANG OUTLET BOXES FOR 3 x 15A, 125V GFI DUPLEX RECEPTACLES
- 8 SINGLE GANG OUTLET BOX FOR 4 x RJ45 DATA JACKS
- 9 HEATER AND THERMOSTAT
- 10 24"W x 30"H x 12"D NEMA 4X ENCLOSURE
- 11 SIDEWALL EXHAUST FAN C/W REVERSE ACTING THERMOSTAT AND BAROMETRIC RELIEF DAMPER
- 12 EXHAUST GRILLE
- 13 INTAKE BAROMETRIC DAMPER

N.T.S.

3
E-2 ELECTRICAL SPECIFICATIONS

CLIENT:

CONSULTANT:

KEYPLAN:

STAMP:

PROJECT TITLE:

CITY OF SAINT JOHN
SIGN LIGHTING
20 MAGAZINE STREET
SAINT JOHN, N.B.

DRAWING TITLE:

DETAILS AND SPECIFICATIONS

SCALE: AS NOTED DATE: MARCH 2024

DRAWN BY: M.J.G. DRAWING NO: E-2

CHECKED BY: B.C.

N.T.S.

APPENDIX B – FORM OF TENDER

**TENDER No. 2024-082301T
SAINT JOHN SIGN LIGHTING**

FORM OF TENDER

2024-082301T
SAINT JOHN SIGN LIGHTING

The undersigned bidder has carefully examined the specifications and scope of work, and also visited the premises to become familiar with the conditions, character and extent of work.

The undersigned bidder has determined the quality and quantity of labour, materials and equipment required, and has the capability to comply with the terms and conditions herein described.

The undersigned bidder further agrees to provide all necessary equipment, tools, labour and materials which are necessary to complete the work in accordance with the contract and agrees to accept, therefore, in payment in full, in accordance with the terms, conditions, specifications, and drawings, the sum of:

\$ _____
Total Cost (All Taxes Extra)

*Pricing is to be bid in Canadian Funds and FOB Saint John, NB prepaid. The tender pricing shall include all installation wages, fringe benefits, insurance, transportation, delivery, duty, working tools, equipment costs, and any other charges incurred in order to provide required materials and/or services.

COMPANY:	SIGNATURE: _____
E-MAIL:	NAME: _____ (print)
Date:	Tel # Fax #
H.S.T. Reg.#	Remarks: