

PART 3 – DRAWINGS AND SPECIFICATIONS

RFT No. Doc4730517384, Contract No. N/A

SUMMARY OF THE WORK

Fire Alarm Replacement, CACF Construction and Installation of Distributed Antenna System (DAS)

The following is a summary of scope of work for this tender:

In general, the Work of this Contract comprises general trades, mechanical, architectural, electrical, fire alarm and DAS construction work at the City of Toronto owned facility located at 703 Don Mills Road, Toronto, Ontario. Reference to the entire tender documents (drawings and specifications) as integral part of the scope of work for this project.

General details are as follows:

- I. Fire Alarm Replacement and CACF Construction:
 1. More specifically, the Contract Work is comprised the following items which are to be furnished, installed, tested, and commissioned by the Contractor:
 - Installation of a new distributed two-stage addressable fire alarm system, complete with one way voice communication, and new graphic workstation.
 - Installation of a new 2-hour rated fire alarm network in DCLC configuration.
 2. Installation of all new addressable initiating and supervisory field devices, conventional signaling devices.
 3. All new devices to be installed using new wiring, conduits, backboxes, junction boxes throughout the facility.
 4. All existing auxiliary systems and their functionality is to be on the new system, including:
 - a. Elevators.
 - b. Smoke Control Systems.
 - c. Pre-Action Sprinkler Systems.
 - d. Electromagnetic Locks.
 - e. Access Control Systems
 - f. Special suppression systems.
 5. Development of the building building's smoke control sequence. Documentation on the existing smoke control sequence being initiated by the building's fire alarm system is not known. The successful proponent must carry the base building fire alarm system contractor (Johnson Controls) to download and recreate the building smoke control system sequence.
 6. Construction of a new 1 hour rated central alarm and control facility (CACF), including the installation of new lighting and ventilation systems for the new

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CACF.

7. Relocation of existing auxiliary system controls, including elevator controls, electromagnetic lock release and reset controls, to the new CACF.
8. Construction of a new glass security barricade in the ground floor lobby.
9. Demolition of all existing fire alarm system components, including but not limited to the control system, remote annunciator, all existing field devices.
 - a. All existing fire alarm control equipment is to be handed over to the owner.
10. Repair of existing ceiling, wall, and other surface finishes that are modified as a result of the work under this contract.
11. Verification, testing, commissioning, including Testing of Integrated Fire Protection and Life Safety Systems in accordance with CAN/ULC- S1001 for all work covered by the Contract.
12. Warranty all labour and materials for this project for two-years. Warranty shall commence upon the date of system acceptance as deemed by the Consultant.

II. New Distributed Antenna System (DAS):

1. Implementation of a new in-building Distributed Antenna System (DAS) for public safety services, as detailed in the tender documents. This includes head-end equipment, filtering, and RF conditioning.
2. This new system is to be provided in lieu of the fire alarm systems emergency telephones.
 - a. The main function of the DAS is to provide signal distribution out to a network of antennas in the facility from amplifiers for an Emergency Responder Communications System. Fire phones for Fire Marshall are no longer needed.
 - b. Refer to the DAS Engineering Drawings and Equipment specifications for technical details.
 - c. The work shall complete with testing, commissioning, and system start-up to the satisfactions of the City of Toronto technical representatives from Toronto Police Services.
 - d. Installation of this specific system is to be performed by (or qualified DAS installers):

Linkwave - Wireless Solution Inc.

Attention: Castor Waye, P.Eng, 1-888-859-2673 ext. 701 / Mobile # (647) 702-7884 / Email: castor.waye@linkwavewireless.com

3. The Contractor is responsible for providing and coordinating all necessary

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equipment and installation including software, cabling, surge protection, and any other work required to deliver a fully operational DAS compliant with all relevant regulations and authority guidelines (AHJ).

4. The Contractor must ensure that any additional DAS design work or modification/revision shall be performed or supervised by personnel holding iBwave Level 3 Certification.

The personnel must carry a valid Certificate of Authorization (CoA) issued by Professional Engineers Ontario (PEO). All DAS additional or modification/revision must be conducted or overseen by a Professional Engineer (P.Eng.) with expertise and experience in indoor radio system design, as well as knowledge of the specific radio equipment used for this project. All revised drawings submitted to the Owner must bear the responsible engineer's seal.

5. DAS Contractor's Project Responsibilities:
 - a. The Contractor must assign a Project Manager to oversee project budgeting, scheduling, resource allocation, and ensure timely project completion. The Project Manager must maintain consistent communication with the Owner throughout the project.
 - b. The Contractor must submit a DAS delivery plan for approval, including a detailed deployment schedule, procurement timelines, and resource management involving both the Contractor and Owner.
 - c. Before installation, the Contractor must conduct a final site visit to confirm construction details.
 - d. The Contractor is responsible for the implementation of the DAS system, including supply, installation, testing, programming, calibration, and commissioning of industry-standard components to deliver a fully functional system. All components and software must be of the latest versions available at the time of installation.
 - e. For the outdoor antenna, the Contractor must supply and install pipe masts on, attached to, or penetrating the building structure based on the rooftop survey results. The rooftop penetration(s) will be provided by the building owner. The contractor is to coordinate with the base building roofer for the intended work.
 - f. The Contractor is responsible for providing and installing all RF Power Dividers, RF Surge Protectors, Dummy Loads for unused ports, and mounting hardware for both active and passive DAS equipment.
 - g. The Contractor must provide and install all inter-rack and intra-rack cabling. Cables within racks should be meticulously organized and bundled, while cables between racks should be well-organized and routed correctly to avoid stress on new cables or tangling with existing cables.

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- h. The Contractor must install LAN network connections to Owner-provided LAN/WAN communication outlets. To be confirmed with the Owner.
 - i. Contractor to supply a 15A/120V power single pole power receptacle (NEMA 5-20P) from the nearest generator source(s) in both the 9th and 3rd floor server rooms.
 - j. The Contractor must label all DAS components and cabling with machine-printed labels that correspond to the identification codes used in the As-Built drawings.
 - k. Contractor shall complete cable sweep tests for all RF cable runs to identify cable lengths (m), Insertion Loss (dB), Return Loss (dB) and cable type. Contractor shall meet all Insertion Loss, and Return Loss requirements, and test coaxial transmission lines with its components at the segment, sub-branch, branch, and sector levels during the installation phase of DAS System. Contractor shall provide all test results as part of the As-Built Package of Documents. Also, Contractor shall identify the make and model number of tester utilized and the date of its latest calibration.
 - l. **Post-Construction Testing and Validation:** After installation and commissioning, the Contractor must conduct a comprehensive RF Survey to validate that the DAS system meets the coverage requirements. A Post-Completion RF Survey Report must be submitted, documenting coverage, signal strength (RSSI), and a summary indicating whether the coverage passes or fails.
 - m. **Post-Construction Deficiency Resolution:** The Contractor must promptly address any deficiencies related to the DAS installation or performance identified by the Owner within ten business days.
6. Technical Requirements for DAS System Performance:
- a. **Architecture Requirements:** The DAS design is defined in Tender documents.
 - b. **Signal Source Requirements:** The signal source should be an off-air BDA. The Contractor is responsible for obtaining permission from the AHJ(s) to operate the BDA on their licensed spectrum.
 - c. **Indoor Coverage Requirements:** The DAS must provide 95% coverage of specified wireless signals at the required signal strength and quality for the designated areas.
 - d. **Performance Requirements:** The DAS must ensure a signal strength of at least -95 dBm RSSI. Certain areas, such as storage rooms or mechanical spaces, may be excluded from this requirement at the Owner's discretion.

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- e. **Technology and Frequency Bands Requirements:** The DAS must support the 700 MHz and 800 MHz LMR frequency bands used by local EMS services. The exact frequencies and number of channels will be determined in consultation with the AHJ.

7. Installation Service Requirements

- a. The Contractor must always maintain coordination with the Owner.
- b. The Contractor must coordinate with the Owner regarding the installation of any cabling and power infrastructure required. All space requirements should be identified in advance.
- c. Antennas should not be concealed.
- d. Any changes to the proposed design during construction must be approved by the Owner.
- e. After completing the DAS installation and commissioning, the Contractor must provide the Owner with an As-Built Package containing system drawings, floor plans, , RF surveys, and final test results, including cable test data.

8. Service Requirements

- a. **Installation and Configuration:** The Contractor must supply, deliver, unpack, install, connect, program, and service all components needed for the DAS. Training and testing costs must be included.
- b. The Contractor must coordinate work with other trades.
- c. The Contractor must include programming and implementation for the DAS components, along with testing and verifying correct operation. Any feature that cannot be implemented must be communicated in writing to the Owner.
- d. The Contractor must ensure that the testing and commissioning of active DAS equipment are performed or supervised by a technical expert certified by the equipment manufacturer. Pay for all associated costs for testing and commissioning.
- e. Warranty all labor and materials for this project for two-years. Warranty shall commence upon the date of system acceptance as deemed by the Consultant.

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GENERAL SPECIFICATIONS

GS-1. Cutting, Remedial Work and Blasting

- 1.1. The Contractor shall perform the coring, cutting and remedial Work required to make the affected parts of the Work come together properly.
- 1.2. The Contractor shall co-ordinate the Work to ensure that the coring, cutting and remedial Work is kept to a minimum.
- 1.3. Should the Owner, the Contract Administrator, other contractors or anyone employed by them be responsible for ill-timed Work necessitating cutting or remedial Work to be performed, the cost of such cutting or remedial Work shall be valued as provided in GC 7.1 - OWNER'S RIGHT TO MAKE CHANGES, GC 7.2 - CHANGE ORDER and GC 7.3 - CHANGE DIRECTIVE.
- 1.4. Coring, cutting, x-rays, scanning and remedial Work shall be performed by specialists familiar with the Products and Owner Supplied Material affected and shall be performed in a manner to neither damage nor endanger the Work and in accordance with the Specifications and other Agreement documents.
- 1.5. The Contractor shall not carry out any blasting operation except with the prior written consent of the Contract Administrator, provided that any consent so granted shall not, under any circumstances, relieve the Contractor of the liabilities and obligations assumed by the Contractor under the Agreement.

GS-2. Cleanup

- 2.1. The Contractor shall maintain the Work and the Site in a safe and tidy condition and free from the accumulation of waste products and debris, other than that caused by the Owner, other contractors or their employees.
- 2.2. Before applying for Substantial Performance of the Work as provided in GC 5.5 - SUBSTANTIAL PERFORMANCE OF THE WORK, the Contractor shall remove waste products and debris, other than that resulting from the work of the Owner, other contractors or their employees, and shall leave the Site clean and suitable for use or occupancy by the Owner. The Contractor shall remove products, Construction Equipment, and Temporary Work not required for the performance of the remaining Work all to the satisfaction of the Contract Administrator and the Owner, acting reasonably.
- 2.3. Prior to the final Application for the Payment, the Contractor shall remove any remaining products, Construction Equipment, Temporary Work, and waste products and debris, other than those resulting from the work of the Owner, other contractors or their employees.
- 2.4. Contractor shall complete all maintenance and cleanup of the Work and Site within 24 hours of written notice from the Owner or Contractor Administrator of such. If such maintenance and cleanup is not completed within 24 hours of such written notice, the Owner shall be entitled to, or to engage others to, perform such maintenance and cleanup, at the Contractor's expense and set-off the costs thereof in accordance with GC 5.10 – OWNER'S SET-OFF.

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- 2.5. Contractor shall repair all damage to the Site caused by the Contractor's, Subcontractor's, Supplier's or Sub-subcontractor's transportation in and out of the Site within five (5) Working Days of written notice from the Owner or Contractor Administrator to repair or before final payment, whichever is earlier. If such repair is not completed within the required time period, the Owner shall be entitled to, or to engage others to, perform such repair, at the Contractor's expense and set-off the costs thereof in accordance with GC 5.10 – OWNER'S SET-OFF.

GS-3. Site and Drainage

- 3.1. The Contractor's sheds, site offices, toilets, other temporary structures and storage areas for material and equipment shall be grouped in a compact manner and maintained in a neat and orderly condition at all times.
- 3.2. The Contractor shall keep all portions of the Work well, properly and efficiently drained, to at least the same degree as that of the existing drainage conditions, during construction and until the Work is completed. The Contractor shall be solely responsible for all Losses caused by, or resulting from, water backing up or flowing over, under, through, from, on or along any part of the Work or which any of the Work may cause to flow elsewhere and shall, at the Contractor's sole cost, repair such damage and without any extension of the Contract Time.

GS-4. Project Controls and Reporting Requirements

- 4.1. The Contractor shall perform the following obligations and comply with the following requirements:
 - 4.1.1. Maintain and update the Construction Schedule, Request for Information, Change Notices and as-built drawings on bi-weekly basis. Distribute to all stakeholders prior to construction meetings as requested.

Such obligations and requirements shall apply to all Work, unless otherwise specified in the Agreement.

- 4.2. The Owner may at any time and from time to time waive the requirement to include any particular item in any report in connection with the Work or may reduce the frequency of any report but in such event shall have the right to reinstate any item and increase the frequency of reporting to the times provided in the Agreement.
- 4.3. For clarity, nothing in this section 7 shall relieve the Contractor from its obligation to execute the Work to completion in accordance with the Construction Schedule or other requirements of the Agreement.

GS-5. Working Drawings

- 5.1. Working Drawings or Working Plans means any Drawings or Plans prepared by the Contractor for the execution of the Work and may, without limiting the generality thereof, include formwork, falsework and shoring plans, roadway (that part of the Highway designed or intended for use by vehicular traffic and includes the Shoulders.) protection plans, Shop Drawings, shop plans or erection diagrams.

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- 5.2. The Contractor shall arrange for the preparation of clearly identified and dated Working Drawings as called for by the Contract Documents.
- 5.3. The Contractor shall submit Working Drawings to the Contract Administrator in accordance with an agreed upon schedule or otherwise with reasonable promptness and in orderly sequence so as to not cause delay in the Work. If either the Contractor or the Contract Administrator so requests they shall jointly prepare a schedule fixing the dates for submission and return of Working Drawings. Working Drawings shall be submitted in printed form. At the time of submission the Contractor shall notify the Contract Administrator in writing of any deviations from the Contract Documents that exist in the Working Drawings.
- 5.4. The Contract Administrator shall review and return Working Drawings in accordance with an agreed upon schedule, or otherwise, with reasonable promptness so as not to cause delay.
- 5.5. The Contract Administrator's review shall check for conformity with the design concept and for general arrangement only and such review shall not relieve the Contractor of responsibility for errors or omissions in the Working Drawings or of responsibility for meeting all requirements of the Contract Documents unless a deviation on the Working Drawings has been approved in writing by the Contract Administrator.
- 5.6. The Contractor shall make any changes in Working Drawings that the Contract Administrator may require to make the Working Drawings consistent with the Contract Documents and resubmit unless otherwise directed by the Contract Administrator. When resubmitting, the Contractor shall notify the Contract Administrator in writing of any revisions other than those requested by the Contract Administrator.
- 5.7. Work related to the Working Drawings shall not proceed until the Working Drawings have been signed and dated by the Contract Administrator and marked with the words "*Reviewed. Permission to construct granted*".
- 5.8. The Contractor shall keep one set of the reviewed Working Drawings, marked as above, at the Site at all times.

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TECHNICAL SPECIFICATIONS

These specifications are applicable for the entire construction work for this project. They govern all aspects of the construction of the following, but not limit to:

- Installation of a new two-stage fully addressable fire alarm systems replacing the existing old system.
- Construction of a new Central Alarm & Control Facility (CACF) and
- Installation of a new Distributed Antenna System (DAS).

Division 01

General Requirements

01 11 00	Summary of Work
01 31 19	Project Meetings
01 33 00	Submittal Procedures
01 74 00	Cleaning
01 74 21	Construction, Demolition, Waste Management and Disposal
01 77 00	Grounding Primary

Division 02

Existing Conditions

02 41 19	Selective Interior Demolition
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Division 07

Thermal and Moisture Protection

07 84 00	Fire Stopping
07 92 00	Joint Sealants

Division 08

Openings

08 11 00	Metal Doors and Frames
08 14 16	Flush Wood Doors
08 71 00	Door Hardware

Division 09

Finishes

09 21 16	Gypsum Board Assemblies
09 22 16	Non-Structural Metal Framing
09 51 13	Acoustical Panel Ceilings
09 65 19	Resilient Tile Flooring
09 91 23	Interior Painting

Division 21

Fire Suppression

21 08 00	Integrated Systems Testing
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Division 28

Electronic Safety and Security

28 46 00	Fire Detection and Alarm
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DIVISIONAL SPECIFICATIONS

DS-1. Occupational Health and Safety Act

- 1.1. The Contractor shall take all steps necessary to prevent the spread of lead-containing dust/particles and any other designated substance(s) or hazardous material(s) from the Work site when performing Work involving, but not limited to, lead-containing paint, and to protect the Contractor, those engaged by the Contractor in performance of the Work, City employees and all others, including the general public, likely to be at or near the Work site.

DS-2. Asbestos

- 2.1. Where the Work includes removal of asbestos, the Contractor shall:
 - 2.1.1. ensure, through appropriate air testing and such other measures as may be appropriate and necessary, that the Work site and adjacent areas not been contaminated with asbestos during the performance of the Work; and
 - 2.1.2. prior to dismantling any barriers erected to contain asbestos and asbestos-containing materials, the Contractor shall provide written confirmation to the Consultant that, after conducting proper air testing and other due diligence measures, the area is safe in accordance with the requirements of the OHSA.
- 2.2. If, during the course of the Work, the Contractor or any of the subcontractors or suppliers engaged by the Contractor, disturb material that is believed to be asbestos containing material, separate and apart from asbestos abatement work forming part of the Contract, the Contractor shall act in strict compliance with the OHSA, including but not limited to the Asbestos Regulation, and without limiting the generality of the foregoing, shall:
 - 2.2.1. Stop work and evacuate the area where the asbestos containing material is believed to have been disturbed and take all precautions or actions mandated by the OHSA and notify the City immediately;
 - 2.2.2. Notify the Contract Administrator via telephone, with written notification to follow as soon as possible; and
 - 2.2.3. Refrain from entering the work area for any reason whatsoever until safe to do so, in accordance with the requirements of the OHSA and, prior to re-entry, notify the Contract Administrator for approval to recommence Work.

DS-3. Commencement and Completion Dates

- 3.1. A continuous and progressive operation shall be carried out until the work is completed.

DS-4. Workforce Development Plan

- 4.1. Where required in the Agreement Documents, the Contractor shall implement and document the Workforce Development Plan described in "Schedule F – Owner

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Policies, Procedures, by-Laws and Other Requirements" to the satisfaction of the City (in its sole discretion).

DS-5. Coordination and Meetings

- 5.1. The Contractor shall attend regular meetings with the City of Toronto and others, including but not limited to, Toronto Transit Commission, Bell Canada, Enbridge, Toronto Hydro, and business organizations as may be required by the Contract Administrator to co-ordinate services affected by the Contract and to monitor on-going administration and progress of the contract.

DS-6. Standard Specifications and Standard Drawings

- 6.1. The City's Standard Specifications and Standard Drawings that apply to the Work shall be those that can be found on-line at www.toronto.ca/ecs-standards as of the date the tender for the Work is issued.
- 6.2. Any other required work, for which no specifications are contained herein, shall conform to the City of Toronto Standard Construction Specifications and Drawings for Road Works, the City of Toronto Standard Construction Specifications and Drawings for Sewers and Watermains, the Ontario Provincial Standard Specifications and the Ontario Provincial Standard Drawings.
- 6.3. This Agreement may also refer to Ontario Provincial Standards (OPS) specifications and drawings. In such case, Bidders shall acquire the applicable specifications and drawings from OPS. Information about OPS can be found at www.ops.on.ca.

DS-7. Payroll Burden Rate for Work on a Time and Material Basis

- 7.1. Standard Rate (40%)
 - 7.1.1. The Owner will pay the Contractor's Payroll Burden at a standard 40 per cent of the wages and salary portion of the Cost of Labour for change in the work in the Contract that is carried out on a Time and Material basis.
- 7.2. Option for Contractor's Actual Payroll Burden Rate
 - 7.2.1. Alternatively, the Owner will consider paying at the Contractor's actual payroll burden rate. To be considered for this option, the Contractor MUST submit their actual payroll burden rate on the Owner's prescribed Contractor's Payroll Burden Form ("Form") prior to the commencement of any work on a Time and Material basis, preferably at the pre-construction meeting.
 - 7.2.2. The Form is available from the Contract Administrator upon request and it shall be completed, certified and signed by the Contractor's external auditor. The Payroll Burden rate shall be calculated from the total expenditures of wages, salaries and benefits for all of the Contractor's employees paid during the previous 12 month calendar year (i.e. January 1st to December 31st). All permitted expenses in relation to labour costs are included on the prescribed Form.

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- 7.2.3. If accepted, the submitted Form shall be effective until January 31st of the following year and the payroll burden rate will apply to all Time and Material works carried out within the effective period of the Form. If the Contractor fails to submit a signed Form before the commencement of any work on a Time and Material basis, or if the submitted Form is not acceptable to the Owner, the Owner will apply the 40 per cent standard payroll burden rate for all works that are carried out on a Time and Material basis under this Contract until a Form is submitted by the Contractor and accepted by the Owner.
- 7.2.4. During the Contract period, the Contractor must submit an updated Form by January 31st of a new calendar year. If accepted, the updated Form shall be effective until January 31st of the following year. If the Contractor failed to submit an updated Form or the submitted Form is not acceptable, the Owner will apply the standard 40 per cent payroll burden rate to all Time and Material works carried out under this Contract until an updated Form is submitted by the Contractor and accepted by the Owner.
- 7.2.5. The Owner reserves the right to terminate the application of the Contractor's actual payroll burden rate and apply the standard 40 per cent payroll burden rate if the Form is found to be not accurately completed after its acceptance.
- 7.2.6. Contractor's labour rates used in the work based on a Time and Material basis are subject to verification by the City's Fair Wage Office.
- 7.2.7. All information in relation to Contractor's Payroll Burden may be audited at the Owner's discretion. The Contractor agrees to keep complete and accurate books, payrolls, accounts and employment records and make the records available for audit by the Owner upon request. The Owner reserves the right to recover any overpayment to the Contractor affected by the audit.

DS-8. Organization of Work and Work Restrictions

- 8.1. It is the Contractor's responsibility to implement all required measures (e.g. fences, enclosures, etc.) in order to strictly control the pedestrian traffic in the construction area and to prevent any pedestrian approaching into the areas of construction hazard, or any other dangerous area.
- 8.2. The Contractor shall be attentive to the needs of pedestrians that are visually or physically impaired, and the Contractor must be prepared at all times to assist in the safe and comfortable passage of these pedestrians.
- 8.3. The Contractor shall note that a number of existing utilities and services are located below the area of reconstruction and others in the near vicinity. The Contractor shall examine the site to identify potential problems associated with the accessibility, transportability and constructability of their proposed methods.
- 8.4. The Contractor shall, from time to time, adopt such approved construction or operating methods in carrying out the work as may be called for due to changing conditions that may be encountered during the progress thereof.

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DS-9. Security and Construction Sign(s)

- 9.1. The Contractor shall be responsible for the security of the work of this Contract from the time the job site is turned over to him until all work has been completed.
- 9.2. The Contractor shall take all necessary precautions to ensure that the construction site does not pose a hazard to the public for the duration of the project. Appropriate safety and warning signs must be posted. All such site security measures shall be removed from the site at the completion of the project.
- 9.3. The Contractor shall supply Project Information Sign(s)] that shall be posted in a prominent area. The sign, conforming to the current sign protocol and which will list a contract number, will be provided by the City at no cost to the Contractor for installation by the Contractor.
- 9.4. Project information for the sign(s), if not specified in this Request for Tender, shall be provided by the Contract Administrator. The number of signs required is specified in the Pricing Form.
- 9.5. The costs for providing, installing, removing and disposing the signs shall be included in the Bidder's Pricing Form submission. No additional separate payment will be made for such work and provisions.

DS-10. Material and Truck Weighing

- 10.1. The City reserves the right to randomly verify the quantity of materials supplied in connection with this Contract. Prior to unloading of materials that are priced on a unit weight basis ("unit weight materials"), the weight tickets must be provided to the Contract Administrator (or in their absence, the City's inspector). Material weight tickets that are not provided to the Contract Administrator or the City's inspector prior to unloading will not be accepted later for payment.
- 10.2. When directed by the Contract Administrator or the City's inspector, trucks carrying unit weight materials shall proceed immediately to a City's weighing facility as specified by the Contractor Administrator or the inspector. After passing through the City's weight scale and unloading the materials, the empty truck shall return to the same facility to verify the vehicle tare if so directed by the Contract Administrator or the City's inspector.
- 10.3. Should the weight verification show that the verified weight of the material is less than what is shown on the Contractor's weight ticket by more than 1.0 per cent, the payment for the affected load shall be made based on the weight measured by the City's weighing facility.
- 10.4. City staff will also adjust the method of measurement for all following loads that are not weight-verified but have been delivered to the site before a new weight verification process can prove the Contractor had rectified the weight inconsistency. The weight of the following loads will be adjusted based on an adjustment factor determined from the most recently weight-verified load
- 10.5. The City will not compensate the Contractor for any cost associated with the weight verification process.

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DS-11. Noise Regulations

- 11.1. The Contractor shall ensure the following:
- 11.2. Equipment shall be maintained in an operating condition that prevents unnecessary noise, including but not limited to proper muffler systems, properly secured components and the lubrication of all moving parts;
- 11.3. Idling of equipment shall be restricted to the minimum necessary for the proper performance of the specified work.
- 11.4. Where necessary, place noise attenuation devices (barriers) around Contractor's construction equipment.

DS-12. Equivalents and Alternatives

- 12.1. Definitions. In this section:
 - 12.1.1. "First-Named Supplier" and "First-Named Product" mean, respectively, a Supplier and Product upon which the quality and design of the Work has been based, as specified in the Contract Documents.
 - 12.1.2. "Equivalent" means a Supplier or Product that is listed after the First-Named Supplier or equipment or material or product in the Contract Documents.
 - 12.1.3. "Alternative" means a Supplier or Product proposed by the Contractor, or an alternate method of undertaking the Work proposed by the Contractor, that is not listed or specified in the Contract Documents.
- 12.2. First Named Supplier or Product
 - 12.2.1. The Contractor shall only use First-Named Suppliers and First-Named Products, or Equivalents, unless an Alternative is approved by the City.
- 12.3. Use of Equivalent
 - 12.3.1. The Contractor may use an Equivalent named in the Contract Documents and shall include the supply and installation of such Equivalent and all Product and labour necessary to complete the Work at no additional cost to the City, whether or not the use of such Equivalent affects the design or manner of completion of the Work.
- 12.4. Use of Alternative
 - 12.4.1. The Contractor may propose the use of an Alternative to the City for consideration following the issuance of an Order to Commence Work. The submission of a proposal for an Alternative may include alternate Subcontractor(s), through whom the Alternative is being offered, other than those named under the Subcontractor listing in the Tender Submission Package.

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- 12.4.2. All Alternative proposals must be supported by sufficient technical documentation to permit a proper analysis and evaluation of the proposed Alternative by the City. In order to be considered, any Alternative proposal must provide price savings, quality improvement(s), operational savings, schedule benefit(s), or a combination thereof. The Alternative proposal must include a detailed point by point comparison listing differences between the proposed Alternative and the First-Named Supplier or First-Named Product.
 - 12.4.3. Supporting documentation in the proposal must be clear, specific and sufficiently detailed to ensure that there is no ambiguity about what is being proposed, including any effect the proposal may have on the completed Work. Proposed Alternatives which, in the opinion of the City, are not accompanied by adequate supporting documentation, or are submitted with insufficient time for a proper review, will not be considered.
 - 12.4.4. The cost of a review by the Consultant of a proposed Alternative will be entirely at the cost of the Contractor and will be credited to the City against the Contract Price.
- 12.5. The City shall have the right, in its sole and absolute discretion, to accept or reject any proposed Alternative, including any proposed Subcontractor.

DS-13. Interference

- 13.1. The Contractor shall arrange all Work activities so as to permit the maintenance of normal building operation and traffic flow at the Work site, with a minimum of inconvenience to the users and staff of the facility or park where the Work is being carried out.
- 13.2. The Contractor shall ensure that no essential services such as electric power and domestic hot water supply are interrupted at the Work site for more than one (1) continuous Hour, and no longer than three (3) consecutive Hours for the heating system during the heating season except with the prior written permission of the Owner.
- 13.3. The Contractor shall in every case where an interruption of service is to occur, make prior arrangements with the Owner.

DS-14. Project Close Out System Demonstrations

- 14.1. The Contractor shall with respect to all installations resulting from the Work demonstrate the operation of all equipment and systems to the Owner's staff and any consultants of the Owner, and instruct such staff in the operation, adjustment and maintenance of such systems and equipment.

DS-15. Fire Protection

- 15.1. The Contractor shall:
 - 15.1.1. prior to commencing work, locate all sprinkler systems and protective or alarm systems;

PART 3 – DRAWINGS AND SPECIFICATIONS

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- 15.1.2. provide and maintain fire extinguishers as required on the site for the protection of the building;
- 15.1.3. provide personnel performing work with open flame, volatile materials or other hazardous work with all fire protection equipment necessary for the safe operation of this equipment and the performance of the work;
- 15.1.4. all fire protection measures shall obtain required approvals and comply with all applicable laws.

APPENDICES

703 Don Mills_DAS Spec Sheet

703 Don Mills_Fire Alarm_Specs

703 Don Mills-Fire Alarm_Drawings Set

APC_BackUPS-Pro_BR1000MS

APC_SmartUPS-OnLine_SRT2200RMXLA

L2181_703 Don Mills_DAS_Design_Issued for Tender