

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**
**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**
11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Title - Sujet Centralized Access Congrol System	
Solicitation No. - N° de l'invitation 23572-160528/A	Date 2015-09-29
Client Reference No. - N° de référence du client 23572-160528	
GETS Reference No. - N° de référence de SEAG PW-\$\$HN-460-68079	
File No. - N° de dossier hn460.23572-160528	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-11-09	Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Guertin, Benoit	Buyer Id - Id de l'acheteur hn460
Telephone No. - N° de téléphone (819) 420-0331 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: <div>Specified Herein Précisé dans les présentes</div>	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address
**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Issuing Office - Bureau de distribution
Electrical & Electronics Products Division
11 Laurier St./11, rue Laurier
7B3, Place du Portage, Phase III
Gatineau, Québec K1A 0S5

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PART 1 - GENERAL INFORMATION

1. Security Requirements

There is no security requirement associated with the requirement.

2. Statement of Work

The contractor must provide the goods and/or services in accordance with the technical requirements stated in Annex "A"

2.1 Delivery Requirement

Delivery is requested to be completed by December 15, 2015.

3. Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

4. Trade Agreements

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), the Agreement on Internal Trade (AIT) and with the FTA's with Panama, Peru and Columbia.

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *[Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual)* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003](#) (2015-07-03) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

(End of page)

2. **SACC Manual Clauses**

SACC Reference	Section	Date
<u>A9033T</u>	Financial Capability	2012-07-16
<u>B1000T</u>	Condition of Material	2014-06-26

2.1 **Submission of Bids**

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

2.2 **Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.3 **Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

PART 3 - BID PREPARATION INSTRUCTIONS

1. **Bid Preparation Instructions**

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (2 copies)
Section II: Financial Bid (1 copy)
Section III: Certifications (1 copy)
Section IV: Additional Information (1 copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy. Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, Bidders are to explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

1.1 Exchange Rate Fluctuation Risk Mitigation

- 1) The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form PWGSC-TPSGC 450, Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
- 2) The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
- 3) The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).

- 4) At time of bidding, the Bidder must complete columns (1) to (4) on form PWGSC-TPSGC 450, for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
- 5) Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

Section IV: Additional Information

1.2 Delivery Offered

While delivery is requested as indicated above, the best delivery that could be offered is _____.

1.3 Contractor's Representative

Name and telephone number of the person responsible for: (will be inserted at contract)

General enquiries

Name: _____
Telephone: _____
Facsimile: _____
E-mail: _____

Delivery follow-up

Name: _____
Telephone: _____
Facsimile: _____
E-mail: _____

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

You are reminded that this solicitation requires the compliance and/or completion of requirements attached as an Annex and forming part of this document.

1. Evaluation Procedures

- a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- b) An evaluation team composed of representatives of Canada will evaluate the bids.

1.1 Mandatory Technical Criteria

The following Mandatory requirements must be submitted with the bid for evaluation

- Technical compliance herein;
- Attend the site visit on YYMMDD at 10h.
Address: 1 Haanel Drive, Ottawa, Ont. K1A 1M1

Bidders must register 24h prior to the visit by email to benoit.guertin@pwgsc-tpsgc.gc.ca

1.2 Financial Evaluation

The following Mandatory factors will be taken into consideration in the evaluation of each offer:

- * Compliance with Pricing Basis;

1.2.1 Pricing Basis

The bidder must quote firm lot prices in Canadian dollars, DDP Delivered Duty Paid (destination), Applicable Taxes extra, as applicable. Freight charges to destination and all applicable Custom duties and Excise taxes must be included.

2. Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price on an aggregate basis will be recommended for award of a contract.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

1. Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

1.1 Declaration of Convicted Offences

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, a completed Declaration Form, to be given further consideration in the procurement process.

2. Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

2.1 Integrity Provisions – List of Names

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

2.2 General Environmental Criteria Certification

By submitting the bid, the bidder certifies that the information submitted in the General Environmental Criteria table found at Table 1 is accurate and complete.

By submitting the bid the Bidder certifies that it meets, and will continue to meet throughout the duration of any resulting contract, a minimum of four out of seven requirements identified in the General Environmental Criteria Table found at Table 1;

Additional Information

The Bidder must complete Table 1 by inserting a checkmark next to every criteria that are met. Bidders are requested to submit Table 1 with their bid. As this is a new procedure, Canada reserves the right to request Table 1 after bid closing. The Contracting Authority will inform the Bidder of a time frame within which to provide it. Failure to provide Table 1 within the required time frame will render the bid non-responsive.

The Contractor must meet and continue to meet four out of seven criterions during the entire duration of the contract.

Green practices within supplier's organization:	Insert a checkmark for each criteria that is met
Promotes a paperless environment through directives, procedures and/or programs.	
All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client.	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification.	
Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	
Registered to ISO 14001 or has an equivalent environmental management system in place	

2.3 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from [Employment and Social Development Canada \(ESDC\) - Labour's](#) website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

1. Security Requirements

There is no security requirement applicable to this Contract.

2. Statement of Work

The contractor must provide the goods and/or services in accordance with the technical requirements stated in Annex "A".

2.1 SACC Manual Clauses

SACC Reference	Section	Date
B1501C	Electrical Equipment	2006-06-16
B7500C	Excess Goods	2006-06-16

3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

3.1 General Conditions

[2010A](#) (2015-09-03), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4 Term of Contract - Delivery Date

All the deliverables must be received on or before _____ (Delivery as offered and as accepted will be inserted at contract award).

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Benoit Guertin – Supply Specialist
Public Works and Government Services Canada - Acquisitions Branch
Logistics, Electrical, Fuel and Transportation Directorate - "HN" Division
7B3, Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC, K1A 0S5
Telephone: (819) 420-0331
E-mail address: benoit.guertin@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

5.2 Project Authority

The Project Authority for the Contract is: (will be inserted at contract)

Name:

Title:

Telephone: (xxx) xxx-xxxx Facsimile: (xxx) xxx-xxxx

E-mail:

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

5.3 Contractor's Representative

Name and telephone number of the person responsible for: (will be inserted at contract)

General enquiries

Name: _____

Telephone: _____

Facsimile: _____

E-mail: _____

Delivery follow-up

Name: _____

Telephone: _____

Facsimile: _____

E-mail: _____

6. Payment

6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot prices, as specified in Annex "A" for a cost of \$ _____ (insert the amount at contract award). Customs duties are included and Applicable Taxes are extra.

6.2 Limitation of Price

SACC Manual clause [C6000C](#) (2011-05-16) Limitation of Price

6.3 Milestone Payments

Canada will make milestone payments in accordance with the 6.4 Schedule of Milestones detailed in the Contract and the payment provisions of the Contract if:

- a. an accurate and complete claim for payment using [PWGSC-TPSGC 1111](#), Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all the certificates appearing on form [PWGSC-TPSGC 1111](#) have been signed by the respective authorized representatives;
- c. all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.

6.4 Schedule of Milestones

Milestone	Description	Price
1	Access control and command center operational building 3 first floor (3 door);	\$
2	Access control operational building 3 second and third floor (12 doors);	\$
3	Access control operational building 4 (16 door).	\$

6.5 Multiple Payments

SACC Manual clause [H1001C](#) (2008-05-12) Multiple Payments

6.6 Insurance

SACC Manual clause [G1005C](#) (2008-05-12) Insurance

6.7 Exchange Rate Fluctuation Adjustment (if necessary)

1. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
2. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provisions in the contract. The exchange rate adjustment amount will be calculated in accordance with the following formula:

$$\text{Adjustment} = \text{FCC} \times \text{Qty} \times (i1 - i0) / i0$$

where formula variables correspond to:

FCC: Foreign Currency Component (per unit)

i0: Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

i1: exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])

Qty: quantity of units

4. The initial exchange rate is typically set as the noon rate as published by the Bank of Canada on the solicitation closing date.
5. For goods, the exchange rate for adjustment will be the noon rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the noon rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the noon rate on the date the payment was due. The most recent noon rate will be used for non-business days.
6. The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form PWGSC-TPSGC 450, Claim for Exchange Rate Adjustments.
7. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGSC-TPSGC 450 (i.e. $[i1 - i0] / i0$).
8. Canada reserves the right to audit any revision to costs and prices under this clause.

7. Invoicing Instructions – Progress Payment Claim

1. The Contractor must submit a claim for payment using form [PWGSC-TPSGC 1111](#), Claim for Progress Payment.
Each claim must show:
 - a. all information required on form [PWGSC-TPSGC 1111](#);
 - b. all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
2. Applicable Taxes, must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no Applicable Taxes payable as it was claimed and payable under the previous claims for progress payments.
3. The Contractor must prepare and certify one original and two (2) copies of the claim on form [PWGSC-TPSGC 1111](#), and forward it to the Project Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection

and acceptance of the Work takes place.

The Project Authority will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.

4. The Contractor must not submit claims until all work identified in the claim is completed.

8. Certifications

8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

10. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2015-09-03),
- (c) Annex A, Statement of Work;
- (d) the Contractor's bid dated _____ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: “, as clarified on _____” or “, as amended on _____” and insert date(s) of clarification(s) or amendment(s)*)

11. SACC Manual Clauses (Delivery)

SACC Reference	Section	Date
<u>D2000C</u>	Marking	2007-11-30
<u>D2001C</u>	Labelling	2007-11-30
<u>D9002C</u>	Incomplete Assemblies	2007-11-30

11.1 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and Delivered Duty Paid –DDP– (Ottawa ON) Incoterms 2000 for shipments from a commercial contractor.

(End of page)

Annex “A” - Statement of work

Centralized Access Control System

Natural Resources Canada (NRCAN), CanmetENERGY-Ottawa (CE-O) located at 1 Haanel Drive, Ottawa, Ontario, requires the supply, delivery, installation, configuration and training of a new access control system. This enterprise level security management system or ELSMS will be required to control access to 24 doors in pilot facilities and labs in 2 buildings (buildings 3 and 4) with the ability to expand to more doors within other pilot facilities at CE-O. It will also need to provide the ability to interface with other control systems such as gas monitoring systems, and their alarm based event information.

The “Command Centre” software must be installed on an NRCAN provided workstation loaded with an NRCAN profile powered through a UPS located in building 3, room 127D. (Ref. DWG #2 of Appendix 1)

The Enterprise level security management system (ELSMS) must be compatible with our software and hardware as indicated below:

- Windows 7 Enterprise Desktop Computer
- Intel Core i5 processor
- 8GB Ram
- Graphics Card capable of 1280x1024 pixel resolution and 65K color
- 12 function-key keyboard
- Mouse point device
- 500GB Hard Drive
- DVD Rom Drive
- TCP/IP Adapter

1 - Command Centre (Building 3)

The ELSMS must use client server architecture, utilizing Microsoft Windows 7 Enterprise operating system, SQL database, standard TCP/IP networks and protocols. This system must have the ability to distribute functions such as monitoring, control and graphical user interfaces across our network to allow flexibility.

This system must also provide an operator interface designed for use on a smartphone device with 3G, 4G, LTE network access such as, blackberry, iPhone, Android, Windows Mobile. The interface should provide an alarm dashboard indicating recent alarms with the ability to acknowledge.

The ELSMS must be capable of providing an open solution for integration and support service oriented architecture (SoA). This system must support communication protocols such as TCP/IP, Modbus, BACnet and OPC to aide in the integration and communication with future devices such as Gas detection equipment.

The ELSMS must have a graphical display builder for the creation of custom graphics and displays. It must provide the ability to create site specific graphic displays with both static and dynamic objects. It must allow importing graphics from third party packages including GIF, JPEG, WMF, BMP and TGA. It must be possible to animate display elements using JavaScript or VBScript and the script editor must be provided

An operator interface must be provided to allow for the assignment of card holder data, alarm and event management and graphical displays showing each floor plan with security device symbols. The colour of the symbols should change based upon the status of each device (normal – green, trouble – yellow, alarm – red). The operator interface should make use of standard Microsoft Windows tool bar icons and standard windowing conventions.

The ELSMS must utilize a real-time database to store data from inputs. This database must be configurable by NRCAN staff without the need for any programming. Modifications to on-line database must be possible without interruption of data collection and reporting. The database must provide historization capabilities for digital, pulse, analog and event based information. Information contained in the database must be accessible to all parts of the system such as custom displays, trends, reports and any NRCAN custom applications. Database backups must be possible using standard Microsoft Windows operating system utilities with the system **on-line** and these backups must also include the historical data.

The ELSMS must provide flexible trending options with the ability to trend real-time, historical or archived data in a variety of formats. NRCAN must be able to combine trend types for comparison e.g. archived data vs real-time data. Event information with time and location filtering options should also be available in the same display for comparison purposes.

The ELSMS must have the ability to send alarm information based on configured points to mobile phone as text messages (SMS) and email. The system should allow for the configuration of selectable times and days of operation, alarm priority threshold, and alternate device for use in escalation when alarms have not been acknowledged over a specified time period.

The ELSMS must have the ability to interface to a digital video management system that allows viewing and recording of video from network connected cameras through the ELSMS user interface. This digital video management system must have an easily scalable architecture based on network connected cameras and transmission of video information across a LAN or WAN. Cameras must locally connect to the LAN using off the shelf compatible video streamer devices or IP cameras. It must be possible to move cameras to other locations in the facility by just disconnecting the camera from the network and reconnecting to the network elsewhere.

The system must be delivered with a supply of 50 proxy access cards.

One day of training must be provided in English for up to 10 people. The training must provide a detailed understanding of the system and its operation, as well as the process required to generate / configure access permissions for employees. It must also provide an understanding of the reporting functions, how to configure reports and how to interpret them. Trainees must understand how to integrate this system with other third-party software/hardware systems such as those used with gas detection equipment.

2 - Buildings Access Control

This is a pilot project involving two buildings at CanmetENERGY-Ottawa, Buildings 3 and 4. The controlled access on specific doors in the pilot facilities and labs is required to ensure work place health and safety compliance.

2.1 Access Control in Building 3

Ref. DWG #2, 3 and 4 of Appendix 1

Access control requirements are listed in the table below.

Supply, installation, programming, integration and commissioning of access control hardware and software. This must include but not limited to an access control panel, power supply, CSA enclosures complete with standardized locks, card readers, door contacts, request to exit devices and electric strikes all as required.

A network drop will be provided by NRCan for the ELSMS computer only and one per any other building with access control system. Communication between the ELSMS, access control panels, access control and security devices is required and must be provided by using a complete conduit network installed by a licensed and unionized electrician.

Note: A sounding device must be installed for all doors. In the event that a door is propped open an alarm should occur at the ELSMS and a local sounder be activated until the condition is resolved.

Locksmiths (if required) must have experience installing access control locks.

The winning bidder must provide references showing they have worked on similar type projects with the electrical subcontractor and locksmith.

Building	Floor	Door	DC	CR	ES	RTE	SO
3	1	120	X	X	X	X	X
3	1	125	X	X	X	X	X
3	1	126	X	X	X	X	X
3	2	221	X	X	X	X	X
3	2	223	X	X	X	X	X
3	2	225	X	X	X	X	X
3	2	229	X	X	X	X	X
3	2	231	X	X	X	X	X
3	2	233	X	X	X	X	X
3	3	303	X	X	X	X	X
3	3	304	X	X	X	X	X
3	3	306	X	X	X	X	X
3	3	312	X	X	X	X	X
3	3	313	X	X	X	X	X
3	3	317	X	X	X	X	X

DC – Door Contact ES – Electric Strike CR – Card Reader
RTE – Request to Exit Motion Detector SO – Local Door Sounder (Piezoelectric or similar)

2.2 Access Control in Building 4

Ref. DWG #1 of Appendix 1

Access control requirements are listed in the table below.

Supply, installation, programming, integration and commissioning of access control hardware and software. This must include but not limited to an access control panel, power supply, CSA enclosures complete with standardized locks, card readers, door contacts, overhead door contacts, request to exit devices, electric strikes and local door sounders all as required.

Network drops will be provided by NRCan for the ELSMS computer but the communication between the ELSMS, access control panels, access control and security devices is required and must be provided by using a complete conduit network installed by a licensed and unionized electrician.

Note: A sounding device must be installed for all doors. In the event that a door is propped open an alarm should occur at the ELSMS and a sounder be activated until the condition is resolved.

Card readers must be installed on all overhead doors to override the alarm contact and sounder when swiped. This will be used to allow the overhead door to be open for extended period for shipment. Once complete another swipe must re-arm the overhead door. A time schedule must be configurable in the ELSMS to re-arm the door after a time period or at the end of the day.

Hazardous areas as indicated in the table below will require approved devices and conduit construction. Card readers for these doors can be installed outside the hazardous area such as the hallway.

Locksmiths (if required) must have experience installing access control locks.
The winning bidder must provide references showing they have worked on similar type projects with the electrical subcontract and locksmith.

Building	Floor	Door	Type	Hazard Class	DC	CR	ES	RTE	OH	SO
4	1	1	Overhead	Class 1 Div. 2		X			X	X
4	1	2	Exit	Class 1 Div. 2	X					X
4	1	3	Entrance	N/A	X	X	X	X		X
4	1	4	Overhead	Class 1 Div. 2		X			X	X
4	1	5	Overhead	Class 1 Div. 2		X			X	X
4	1	6	Exit	Class 1 Div. 2	X					X
4	1	7	Overhead	Class 1 Div. 2		X			X	X
4	1	8	Exit	Class 1 Div. 2	X					X
4	1	9	Double Entrance	N/A	2	X	X	X		X
4	1	10	Exit	N/A	X					X
4	1	11	Entrance	N/A	X	X	X	X		X
4	1	12	Double Exit	N/A	2					X
4	1	13	Overhead	N/A		X			X	X
4	1	14	Double Exit	N/A	2					X
4	1	15	Exit	N/A	X					X
4	1	16	Exit	Class 1 Div. 2	X					X

DC – Door Contact ES – Electric Strike OH – Overhead Door Contact
CR – Card Reader RTE – Request to Exit Motion Detector
SO – Local Door Sounder (Piezoelectric or similar)

The ELSMS must conform to UL294 (Access Control) standards and additional consideration will be given to those following quality standards such as ISO 9001.

Solicitation No. - N° de l'invitation
23572-160528/A
Client Ref. No. - N° de réf. du client
23572-160528

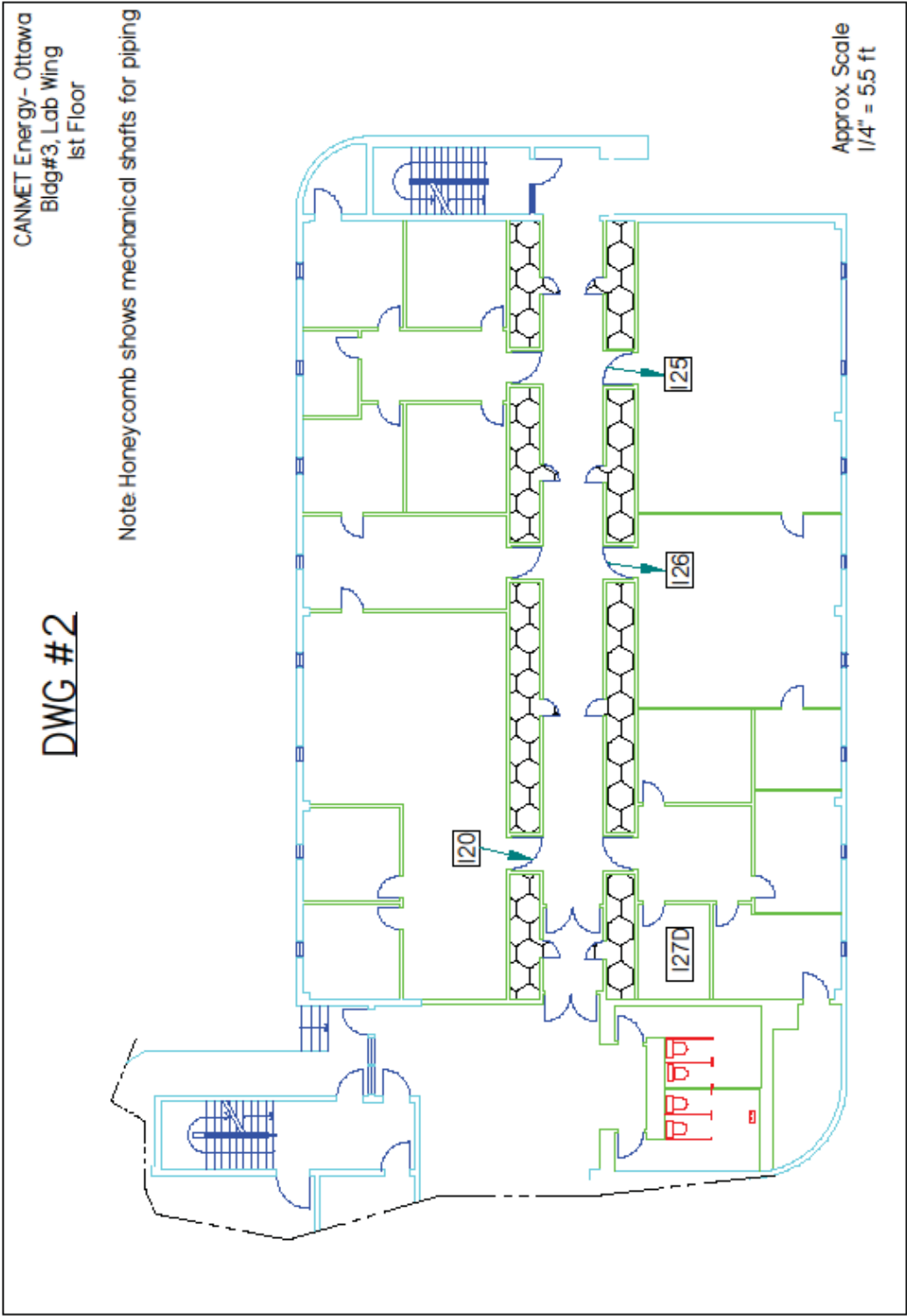
Amd. No. - N° de la modif.
File No. - N° du dossier
hn460.23572-160528

Buyer ID - Id de l'acheteur
hn460
CCC No./N° CCC - FMS No./N° VME

All wiring to be run in ridged conduit or HL rated Teck cable to meet the building classification requirements.

All devices and computers must be connected using hardwire. No wireless devices will be accepted.

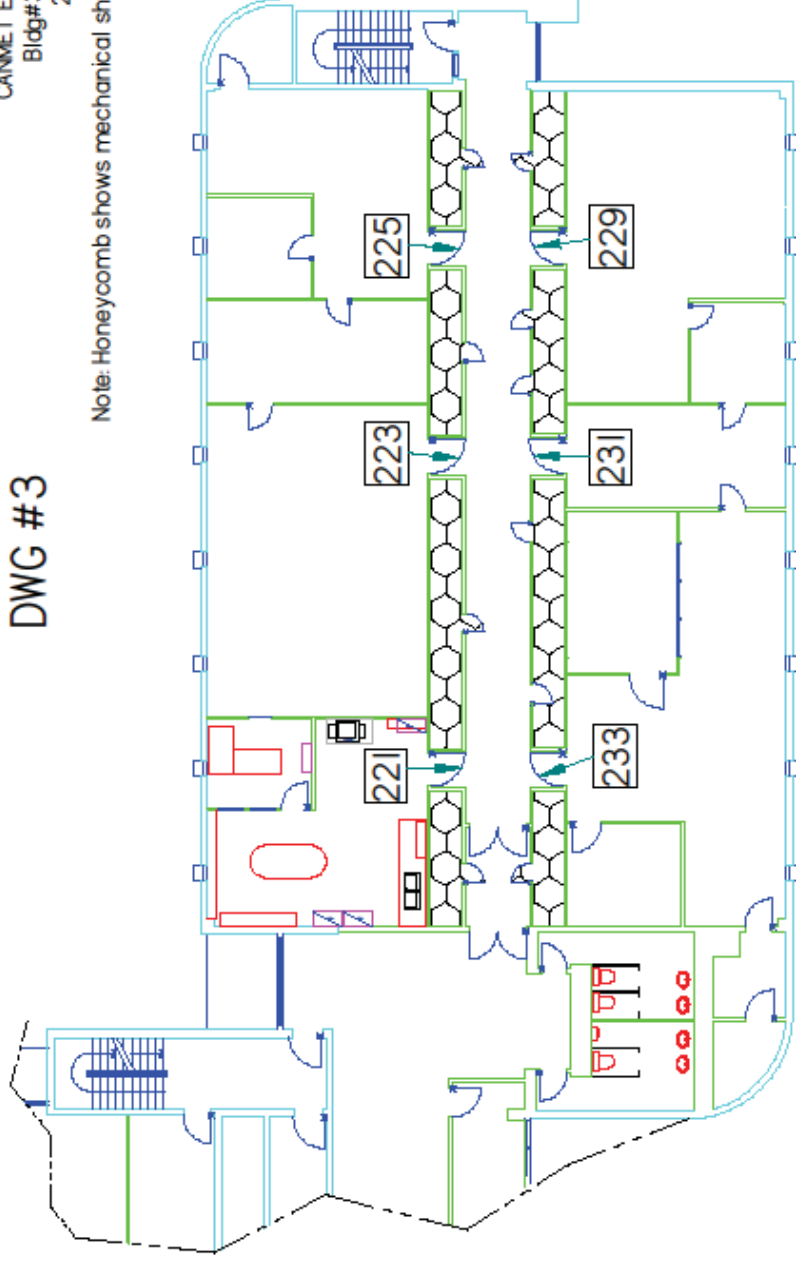
Milestone	Description	Price
1	Access control and command center operational building 3 first floor (3 door);	\$
2	Access control operational building 3 second and third floor (12 doors);	\$
3	Access control operational building 4 (16 door).	\$
Total Price		\$



CANMET Energy - Ottawa
Bldg#3, Lab Wing
2nd Floor

DWG #3

Note: Honeycomb shows mechanical shafts for piping

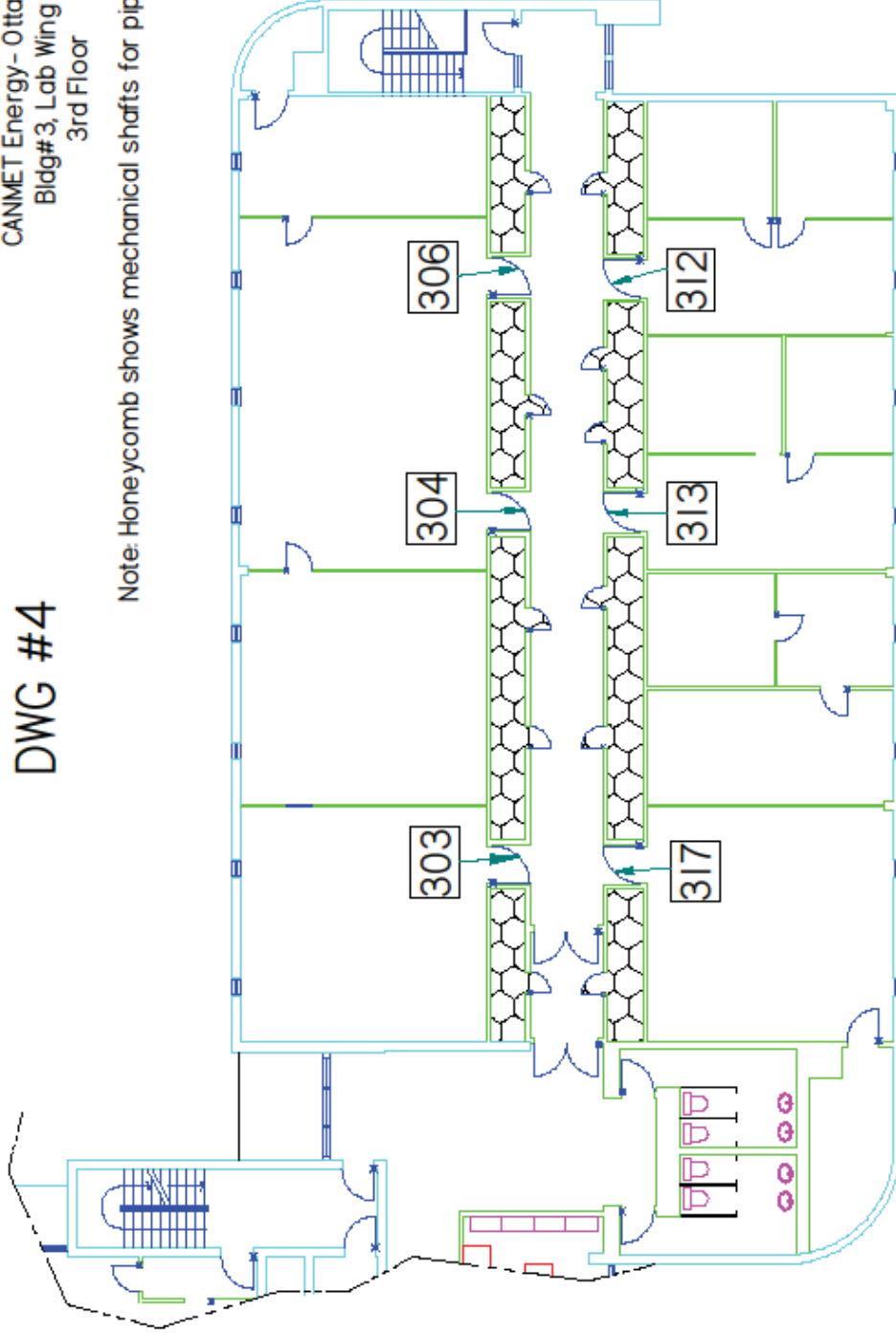


Approx. Scale
1/4" = 5.5ft

CANMET Energy - Ottawa
Bldg#3, Lab Wing
3rd Floor

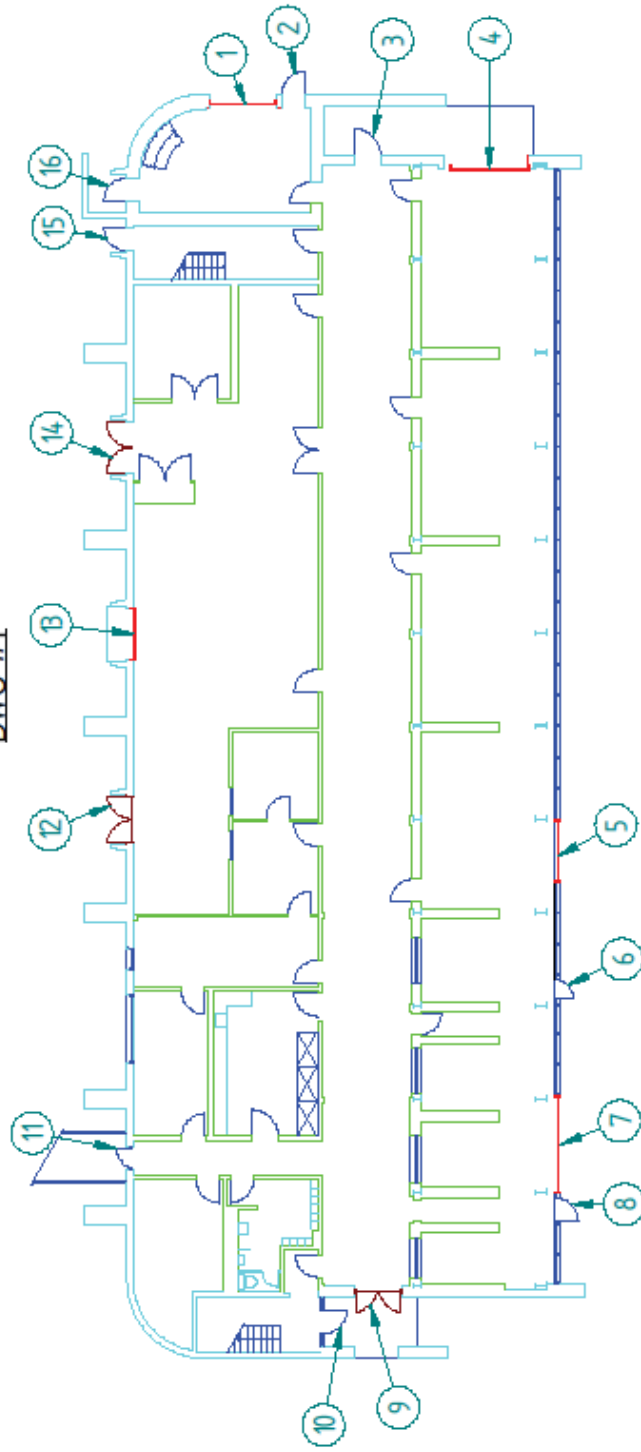
DWG #4

Note: Honeycomb shows mechanical shafts for piping



Approx. Scale
1/4" = 5.5 ft

DWG #1



CANMET Energy -Ottawa
Bldg#4

Approx Scale 1/4"= 6ft

Note: Numbered doors are shown by different colors
Blue — Single door
Brown — Double Door
Red — Overhead door

