



**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**

THIS DOCUMENT CONTAINS A SECURITY  
REQUIREMENT / CE DOCUMENT CONTIENT DES  
EXIGENCES RELATIVES À LA SÉCURITÉ

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**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

<b>Title - Sujet</b> PEACE BRIDGE CAMPUS, FORT ERIE CCTV	
<b>Solicitation No. - N° de l'invitation</b> 47905-187285/A	<b>Date</b> 2018-05-01
<b>Client Reference No. - N° de référence du client</b> 1000337285	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HN-467-74795	
<b>File No. - N° de dossier</b> hn467.47905-187285	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-06-13</b>	<b>Time Zone Fuseau horaire</b> Eastern Daylight Saving Time EDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Dubé, Robert	<b>Buyer Id - Id de l'acheteur</b> hn467
<b>Telephone No. - N° de téléphone</b> (873) 469-3936 ( )	<b>FAX No. - N° de FAX</b> (819) 953-4944
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> CANADA BORDER SERVICES AGENCY 2 Peace Bridge Plaza Fort Erie Ontario L2A 0A7 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Introduction**

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Statement of Work (SOW), the Pricing Sheet, the Basis of Payment, Security Requirements, and the Federal Contractors Program for Employment Equity - Certification, the Task Authorizations Form, the Insurance Requirements and any other annexes.

### **1.2 Summary**

- 1.2.1** The Canada Border Services Agency (CBSA) has a requirement to upgrade and expand their current closed circuit television (CCTV) system at the Peace Bridge Campus in Fort Erie, Ontario.

The work includes the design, supply, installation, testing, provide operational and technical training and establish maintenance and support agreements for the new closed circuit television system (CCTV) equipment as described in the Statement of Work (SOW) (Refer to Annex A). Work will have to be accomplished with minimum disruption to the daily operation and security of the site.

This project will provide an opportunity to upgrade and expand the current CCTV system to an "Open Enterprise Level Architecture – OELA" and will allow CBSA to:

1. Quickly scale the CCTV system as CBSA changes and grows;
2. Have a system with failover functionality that in-turn provides high availability;
3. Be in-line with the CBSA's future plans; and
4. Have industry standard IT components (i.e. servers, storage arrays, network gear, etc.).

The Peace Bridge Campus site address is:

- 2 Peace Bridge Plaza, Fort Erie, Ontario L2A 0A7 (Traffic Building)
- 10 Queen Street, Fort Erie, Ontario L2A 5N7 (Commercial Building)

Delivery is requested to be completed within 20 weeks after contract award.

- 1.2.2** There are security requirements associated with this requirement. For additional information, consult Part 6 - Security, Financial and Other Requirements, and Part 7 - Resulting Contract Clauses.

- 1.2.3** The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-European

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Union Comprehensive Economic and Trade Agreement (CETA) and the Canadian Free Trade Agreement (CFTA).

**1.2.4** There is a mandatory bidders' site visit associated with this requirement where personnel security screening is required "for all employees, sub-contractors and personnel" prior to gaining access to the site. Please refer to Part 2 - Bidder Instructions, Section 2.6 – Mandatory Site Visit for instructions.

### **1.3 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.

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## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 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 (2017-04-27) 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

### **2.2 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.

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

### **2.3 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.

### **2.4 Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in (to be inserted at contract award).

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.

### **2.5 Improvement of Requirement during Solicitation Period**

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting

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Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least fourteen (14) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

## **2.6 Mandatory Site Visit**

It is mandatory that the Bidder or a representative of the Bidder visit the work site. Arrangements have been made for site visit to be held on **May 17, 2018 at 10:00 AM** at the Peace Bridge Campus, Fort Erie. Interested Bidders shall meet at the Principal Entrance of the Peace Bridge Campus, 2 Peace Bridge Plaza, Fort Erie, Ontario L2A 0A7. Bidders will be required to sign an attendance form at the site visit.

Bidders should confirm in their bids that they have attended the site visit. Bidders who do not attend or send a representative to the site visit will not be given an alternative appointment and their bids will be rejected as non-compliant.

The onus is on the bidders to arrive at the site visit in a timely manner. Bidders arriving late may not be permitted to attend the site visit.

The Bidder must have at least one attendee at the site visit.

It is also a mandatory condition of this requirement that all attendees provide an e-mail confirming their attendance to the site visit.

Bidders are requested to clearly identify the name of the participant, the name of the company, e-mail address and provide the information requested in Section 2.6.1 Mandatory Conditions for the Site Visit below within the body of their e-mail along with a valid government issued piece of identification (ID) (i.e. Front and Back of Driver's License or Passport) and submit it to the Contracting Authority by e-mail at [robert.dube@tpsgc-pwgsc.gc.ca](mailto:robert.dube@tpsgc-pwgsc.gc.ca) or by fax to (819) 953-4944. It is requested that this information be received by this office no later than **May 14, 2018**.

Site visit request information received after **May 14, 2018** may not be accepted. A site clearance obtained for work performed under similar requirements is not acceptable.

Bidders should submit in writing to the Contracting Authority, a list of issues or questions that they wish to table and the language they would like to address questions and answers, no later than five (5) calendar days prior to the scheduled site visit.

Bidders are advised that any clarifications or changes resulting from the site visit shall be included as an amendment to the bid solicitation document through [buyandsell.gc.ca](http://buyandsell.gc.ca).

As proof of attendance, the Bidder must sign the attendance form provided by the CBSA representative at the site visit.

### **2.6.1 Mandatory Conditions for the Site Visit**

For each individual who will attend the mandatory site visit and before they are given access to the Site Map Drawings by or on behalf of Canada in connection with the Project, the following conditions must be met:

the Bidder must provide for all individuals who will require access to classified or protected information, assets or sensitive work sites:

- a) the name of the individual;
- b) the date of birth of the individual; and
- c) if available, the individual's security information (i.e. CISD ID Number, Security Level Status, etc.).

### **2.6.2 Instructions and Access to the Site Map Drawings**

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Due to the nature of the work taking place at the facility and the Security Requirements, Site Map Drawings for Peace Bridge Campus at 2 Peace Bridge Plaza, Fort Erie, Ontario L2A 0A7 (Traffic Building) and 10 Queen Street, Fort Erie, Ontario L2A 5N7 (Commercial Building) will not be provided to bidders during the site visit, but they will have the opportunity to make arrangements to view the Site Map Drawings at the CBSA Fixed Infrastructure Office.

On the day of the site visit all Bidders will be invited to attend a meeting immediately following the walk thru of the site to view the Site Map Drawings and ask any questions.

Further, two additional dates of **May 23 and 24, 2018** will be set aside for Bidders to make an appointment to attend at 4342 Queen St, 6th floor, Niagara Falls, Ontario to view the Site Map Drawings.

The Bidders must contact Sue Ruscitti at 905-354-3178 to make an appointment. The Bidders must present themselves to the Commissionaires Desk in the lobby and ask for Sue Ruscitti or Anita LoStracco to be escorted up to the 6th floor to view the Site Map Drawings. The Bidders will have the use of the Infrastructure Project room to view the Site Map Drawings.

To ensure consistency and fairness to all Bidders, all questions and answers will be recorded and submitted to the Contracting Authority who will then issue an amended RFP for all Bidders to view the non-restricted information resulting from the viewing sessions.

## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **3.1 Bid Preparation Instructions**

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

- Section I: Technical Bid (3 hard copies and 2 soft copies on CD, DVD or USB key)
- Section II: Management Bid (3 hard copies and 2 soft copies on CD, DVD or USB key)
- Section III: Support Bid (3 hard copies and 2 soft copies on CD, DVD or USB key)
- Section IV: Financial Bid (1 hard copy and 1 soft copy on CD, DVD or USB key)
- Section V: Certifications (1 hard copy)
- Section VI: Additional Information (1 hard 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**

The Technical, Management and Support Bids should be concise and address, but not necessarily be limited to, the points that are subject to the evaluation criteria against which the Bid will be evaluated. Bidders should address the evaluation criteria in sufficient depth in their bid. Simply repeating the statement contained in the solicitation document is not sufficient. Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

In order to facilitate the evaluation of the Bid, Canada requests:

- Bidder to include a Table that addresses on a paragraph by paragraph basis the Statement of Work (SOW) by indicating the paragraph and page number where the subject topic is addressed and indicating comply, understood, noted or not applicable.
- Bidders to address and present topics in the order of the Statement of Work (SOW) under the same headings.



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- Bidders to avoid duplication by identifying the specific paragraph and page number where the subject topic has already been addressed in the Bid.

## **Section II: Management Bid**

In their management bid, Bidders must describe their capability and experience, the project management team and provide client contact(s).

## **Section III: Support Bid**

In their support bid, Bidders must demonstrate their understanding of the requirement and describe how they intend to meet the support requirements (operator/ maintenance training, manuals, spare parts list and plan).

## **Section IV: Financial Bid**

**3.1.1** Bidders must submit their financial bid as per the format of Annex B – Basis of Payment in accordance with the following Basis of Pricing. The total amount of Applicable Taxes must be shown separately.

### **3.1.2 Basis of Pricing**

All prices must be firm in Canadian dollars, Delivery Duty Paid (Destination), Goods and Services Tax or the Harmonized Sales Tax extra, transportation costs to destination and all applicable Custom Duties and Excise Taxes included.

#### **3.1.2.1 Design and Equipment**

The bidder must submit a firm lot price for the design and related equipment for the Closed Circuit Television System (CCTV) Equipment for the Peace Bridge Campus in Fort Erie, Ontario, excluding spare parts and test equipment.

#### **3.1.2.2 Installation and Testing Costs**

The bidder must submit a firm lot price. The price must include all costs, including travel and living, related to the installation and testing of the equipment.

#### **3.1.2.3 Testing of Equipment for Emergency Repairs, Delays and Task Authorizations**

The bidder must submit a firm hourly rate for installation and testing during and outside normal working hours for each labour category required.

These hourly rates will apply for emergency repairs, delays and Task Authorizations and will be in effect for the entire length of any resulting contract.

Normal working hours are Monday to Friday, 7:30 to 16:00 with exception of statutory holidays.

In order to complete the work within the time line provided, additional hours outside of the noted normal hours may be incurred.

#### **3.1.2.4 Travel and living expenses**

The bidder must indicate if there are travel and living expenses associated with the installation and testing of the equipment (excluding training). Where applicable, the bidder must submit a firm lot price, the estimated number of people and the estimated number of days, and the breakdown of the Firm Lot Price as indicated in Annex B – Basis of Payment.

#### **3.1.2.5 On-site training as detailed in the SOW, section 7.0 paragraphs 5 and 6.**

The bidder must submit a firm lot price for on-site training session, taking into account travel expenses.

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### **3.1.2.6 Documentation**

The bidder must submit a firm lot price for the following:

As-built drawings as detailed in SOW, section 7.0 paragraph 2.

Operator and Maintenance Manuals as detailed in SOW, section 13.0 paragraph 17.

### **3.1.2.7 Software / Integration**

The bidder must submit a firm lot price for the software / integration.

### **3.1.2.8 Option 1: Spare parts and Test Equipment**

The bidder must submit a Spare Parts and/or Test Equipment List identifying each recommended spare parts and/or test equipment required. The bidder must also submit a firm unit price for each recommended spare part required and pricing for the item(s) in Annex B.

### **3.1.2.9 Bid Firm Lot Price Cost Breakdown**

Prior to contract award Bidders must provide a line by line breakdown of the material and labour used to calculate the Bid Prices for Equipment and Design Lot Price identified within Annexe "B" - Basis of Payment.

The pricing provided will be used to calculate the cost of any Task Authorizations throughout the life of the contract.

### **3.1.3 Exchange Rate Fluctuation**

C3011T (2013-11-06), Exchange Rate Fluctuation

## **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification or 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.

## **Section IV: Additional Information**

### **3.1.4. Delivery Offered**

While delivery is requested as indicated above, the best delivery that could be offered is (Bidder to insert a date).

### **3.1.5 Contractor Contacts**

Name and telephone number of the person responsible for:

#### **General enquiries**

Name: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_

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Facsimile No.: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

### Delivery follow-up

Name: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_  
Facsimile No. \_\_\_\_\_  
E-mail address: \_\_\_\_\_

### 3.1.6 Warranty Repairs

It may be necessary for warranty repairs to be performed on site. You are requested to provide response time and location of nearest office/depot providing staff for this work. Response time shall not exceed forty-eight (48) hours. The contact person is as follows:

Response Time: \_\_\_\_\_  
Name: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_  
Facsimile No.: \_\_\_\_\_  
Email/Internet Address: \_\_\_\_\_

### 3.1.7 Emergency Services / Repairs

If requested by the Canada Border Services Agency (CBSA), the Contractor shall be required to provide on-site emergency service/repairs not covered under the warranty provision of the General Conditions 2030 during the contract period. The emergency crew shall be paid as indicated herein. The response time shall not exceed four (4) hours. The contact person is as follows:

Name: \_\_\_\_\_  
Telephone No.: \_\_\_\_\_  
Facsimile No.: \_\_\_\_\_  
Email/Internet Address: \_\_\_\_\_

### 3.1.8 Lifetime Spares

It shall be a condition of any contract resulting here from that the Contractor undertakes to supply spare parts for the equipment proposed during the life expectancy of the equipment.

**The Bidder must indicate the number of years for the life of the equipment: \_\_\_\_\_ years.**

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## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

For the purpose of the Evaluation Process only, "Bidder" means the person or entity (or, in the case of a joint venture, the persons or entities) submitting a bid to perform a contract for goods, services or both. It may also include the parent or subsidiaries of the Bidder.

### **4.1 Evaluation Procedures**

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

#### **4.1.1 Technical Evaluation**

The Technical, Management and Support Bids should be concise and address, but not necessarily be limited to, the points that are subject to the evaluation criteria against which the Bid will be evaluated. Bidders should address the evaluation criteria in sufficient depth in their bid. Simply repeating the statement contained in the solicitation document is not sufficient. Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

In order to facilitate the evaluation of the Bid, Canada requests:

- Bidder to include a Table that addresses on a paragraph by paragraph basis the Statement of Work (SOW) by indicating the paragraph and page number where the subject topic is addressed and indicating comply, understood, noted or not applicable.
- Bidders to address and present topics in the order of the Statement of Work (SOW) under the same headings.
- Bidders to avoid duplication by identifying the specific paragraph and page number where the subject topic has already been addressed in the Bid.

##### **4.1.1.1 Mandatory Technical Criteria**

Simply stating a compliancy to a criteria is insufficient. Bidders must present a clearly organized, printed (i.e., not handwritten) proposal that includes all necessary technical and descriptive information, in order to clearly demonstrate their compliancy to all items presented in the Statement of Work (SOW) at Annex A, as well as related specifications.

Responses will be evaluated on a simple, stringent pass/fail basis. Proposals not meeting each mandatory requirement will be considered non-responsive (non-compliant) and given no further consideration.

- Address, as described, Annex A, Statement of Work (SOW)
- Bidders must obtain the required minimum points (70%) for each of the following evaluation criteria – technical, management and support, which are subject to point rating;
- Bidder must clearly identify in their Bid the name of the following resources assigned to the Project:
  - 1. Project Manager;
  - 2. Primary Back-up Project Manager;
  - 3. Project Supervisor;
  - 4. Primary Back-up Project Supervisor;
  - 5. Technician; and
  - 6. Primary Back-up Technician.

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- Bidders must obtain the required minimum points identified in Attachment 1 - Evaluation Criteria, Sections 1.1, 1.2.1, 2.2.1, 2.2.2 and 2.2.3.

The technical bid should be structured in the same format as the Statement of Work presented at Annex A, through which the bidder will clearly explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

#### **4.1.1.2 Point Rated Technical Criteria**

The Technical, Management and Support Bid will be evaluated and rated as per Attachment 1 – Point Rated Evaluation Criteria and Scoring Sheet.

#### **4.1.2 Financial Evaluation**

##### **4.1.2.1 Mandatory Financial Criteria**

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, DDP destination, Canadian customs duties and excise taxes included.

The following Mandatory factors will be taken into consideration in the evaluation of each bid;

Compliance with Basis of Pricing; and  
Prices must be submitted for all items listed in the Annex B – Basis of Payment

#### **4.2 Basis of Selection**

The responsive Bidder with the lowest evaluated aggregate bid price will be recommended for award of a contract.

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## **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.

### **5.1 Certifications Required with the Bid**

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

#### **5.1.1 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](http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>), to be given further consideration in the procurement process.

#### **5.1.2 Status and Availability of Resources**

The Bidder certifies that, should it be awarded a contract as a result of the bid solicitation, every individual proposed in its bid will be available to perform the Work as required by Canada's representatives and at the time specified in the bid solicitation or agreed to with Canada's representatives. If for reasons beyond its control, the Bidder is unable to provide the services of an individual named in its bid, the Bidder may propose a substitute with similar qualifications and experience. The Bidder must advise the Contracting Authority of the reason for the substitution and provide the name, qualifications and experience of the proposed replacement. For the purposes of this clause, only the following reasons will be considered as beyond the control of the Bidder: death, sickness, retirement, resignation, dismissal for cause or termination of an agreement for default.

If the Bidder has proposed any individual who is not an employee of the Bidder, the Bidder certifies that it has the permission from that individual to propose his/her services in relation to the Work to be performed and to submit his/her résumé to Canada. The Bidder must, upon request from the Contracting Authority, provide a written confirmation, signed by the individual, of the permission given to the Bidder and of his/her availability. Failure to comply with the request may result in the bid being declared non-responsive.

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**Signature**

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**Date**

#### **5.1.3 Education and Experience**

The Bidder certifies that all the information provided in the résumés and supporting material submitted with its bid, particularly the information pertaining to education, achievements, experience and work history, has been verified by the Bidder to be true and accurate. Furthermore, the Bidder warrants that every individual proposed by the Bidder for the requirement is capable of performing the Work described in the resulting contract.

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**Signature**

---

**Date**

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#### 5.1.4 Compliance Certification Statement

By submitting a Bid the Bidder certifies that they comply with and understand the Statement of Work and supporting documents that form part of the Requirement.

The Bidder certifies that in the performance of the work detailed in the Statement of Work, that their equipment is certified to function with CBSA equipment and servers. CBSA equipment will not be impacted by the installation and upgrade from the Bidder's hardware and software.

Should any technical dysfunction be predicted, the Contractor may require a test environment to be used prior to any changes or installations to mitigate the effect on the performance of CBSA's equipment.

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

#### 5.2 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 specified will render the bid non-responsive.

##### 5.2.1 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.

##### 5.2.2 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](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.

##### 5.2.3 General Environmental Criteria Certification

The Bidder must select and complete one of the following two certification statements.

- A) The Bidder certifies that the Bidder is registered or meets ISO 14001.

\_\_\_\_\_  
Bidders' Authorized Representative Signature

\_\_\_\_\_  
Date

or

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- B) The Bidder certifies that the Bidder meets and will continue to meet throughout the duration of the contract, a minimum of four (4) out of six (6) criteria identified in the table below.

The Bidder must indicate which four (4) criteria, as a minimum, are met.

<b>Green Practices within the Bidders' organization</b>	<b>Insert a checkmark for each criterion that is met</b>
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.	

\_\_\_\_\_  
Bidders' Authorized Representative Signature

\_\_\_\_\_  
Date



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## PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

### 6.1 Security Requirements

1. At the date of bid closing, the following conditions must be met:
  - (a) the Bidder must hold a valid organization security clearance as indicated in Part 7 - Resulting Contract Clauses;
  - (b) the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work site(s) must meet the security requirements as indicated in Part 7 - Resulting Contract Clauses; and
  - (c) the Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites.
2. For additional information on security requirements, Bidders should refer to the [Industrial Security Program \(ISP\)](http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html) of Public Works and Government Services Canada (<http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>) website.

### 6.2 Financial Capability

1. The Bidder must have the financial capability to fulfill this requirement. To determine the Bidder's financial capability, the Contracting Authority may, by written notice to the Bidder, require the submission of some or all of the financial information detailed below during the evaluation of bids. The Bidder must provide the following information to the Contracting Authority within fifteen (15) working days of the request or as specified by the Contracting Authority in the notice:
  - a. Audited financial statements, if available, or the unaudited financial statements (prepared by the Bidder's outside accounting firm, if available, or prepared in-house if no external statements have been prepared) for the Bidder's last three fiscal years, or for the years that the Bidder has been in business if this is less than three years (including, as a minimum, the Balance Sheet, the Statement of Retained Earnings, the Income Statement and any notes to the statements).
  - b. If the date of the financial statements in (a) above is more than five months before the date of the request for information by the Contracting Authority, the Bidder must also provide, unless this is prohibited by legislation for public companies, the last quarterly financial statements (consisting of a Balance Sheet and a year-to-date Income Statement), as of two months before the date on which the Contracting Authority requests this information.
  - c. If the Bidder has not been in business for at least one full fiscal year, the following must be provided:
    - i. the opening Balance Sheet on commencement of business (in the case of a corporation, the date of incorporation); and
    - ii. the last quarterly financial statements (consisting of a Balance Sheet and a year-to-date Income Statement) as of two months before the date on which the Contracting Authority requests this information.
  - d. A certification from the Chief Financial Officer or an authorized signing officer of the Bidder that the financial information provided is complete and accurate.

- 
- e. A confirmation letter from all of the financial institution(s) that have provided short-term financing to the Bidder outlining the total of lines of credit granted to the Bidder and the amount of credit that remains available and not drawn upon as of one month prior to the date on which the Contracting Authority requests this information.
  - f. A detailed monthly Cash Flow Statement covering all the Bidder's activities (including the requirement) for the first two years of the requirement that is the subject of the bid solicitation, unless this is prohibited by legislation. This statement must detail the Bidder's major sources and amounts of cash and the major items of cash expenditures on a monthly basis, for all the Bidder's activities. All assumptions made should be explained as well as details of how cash shortfalls will be financed.
  - g. A detailed monthly Project Cash Flow Statement covering the first two years of the requirement that is the subject of the bid solicitation, unless this is prohibited by legislation. This statement must detail the Bidder's major sources and amounts of cash and the major items of cash expenditures, for the requirement, on a monthly basis. All assumptions made should be explained as well as details of how cash shortfalls will be financed.
2. If the Bidder is a joint venture, the financial information required by the Contracting Authority must be provided by each member of the joint venture.
  3. If the Bidder is a subsidiary of another company, then any financial information in 1. (a) to (f) above required by the Contracting Authority must be provided by the ultimate parent company. Provision of parent company financial information does not by itself satisfy the requirement for the provision of the financial information of the Bidder, and the financial capability of a parent cannot be substituted for the financial capability of the Bidder itself unless an agreement by the parent company to sign a Parental Guarantee, as drawn up by Public Works and Government Services Canada (PWGSC), is provided with the required information.
  4. **Financial Information Already Provided to PWGSC:** The Bidder is not required to resubmit any financial information requested by the Contracting Authority that is already on file at PWGSC with the Contract Cost Analysis, Audit and Policy Directorate of the Policy, Risk, Integrity and Strategic Management Sector, provided that within the above-noted time frame:
    - a. the Bidder identifies to the Contracting Authority in writing the specific information that is on file and the requirement for which this information was provided; and
    - b. the Bidder authorizes the use of the information for this requirement.

It is the Bidder's responsibility to confirm with the Contracting Authority that this information is still on file with PWGSC.
  5. **Other Information:** Canada reserves the right to request from the Bidder any other information that Canada requires to conduct a complete financial capability assessment of the Bidder.
  6. **Confidentiality:** If the Bidder provides the information required above to Canada in confidence while indicating that the disclosed information is confidential, then Canada will treat the information in a confidential manner as permitted by the [Access to Information Act](#), R.S., 1985, c. A-1, Section 20(1) (b) and (c).
  7. **Security:** In determining the Bidder's financial capability to fulfill this requirement, Canada may consider any security the Bidder is capable of providing, at the Bidder's sole expense (for example, an irrevocable letter of credit from a registered financial institution drawn in favour of Canada, a performance guarantee from a third party or some other form of security, as determined by Canada).

## **PART 7 - RESULTING CONTRACT CLAUSES**

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

### **7.1 Statement of Requirement**

The Contractor must design, supply, install, test, provide operational and technical training and establish maintenance and support agreements for the new closed circuit television system (CCTV) equipment for the Peace Bridge Campus in Fort Erie, Ontario as described in the Statement of Work (SOW) (Refer to Annex A). The Contractor must provide acceptable documentation for the maintenance of this system.

Refer to Annex A for Statement of Work (SOW) and applicable Technical Specifications Documents. The purpose of the SOW document is to define the technical aspects for the closed circuit television system (CCTV) equipment for the Peace Bridge Campus in Fort Erie, Ontario. The SOW will indicate the extent to which both general and particular CBSA specifications are applicable to the implementation of this requirement.

#### **7.1.1 Option to Purchase Contractor Recommended Spare Parts and/or Test Equipment**

- a) The Contractor hereby grants to Canada and Canada shall retain an irrevocable option exercisable at any time during the Contract to procure any or all of the spare parts and/or test equipment described in the supplier's proposal.
- b) The Contractor shall be given a minimum of thirty (30) working days notice in writing by the Contracting Authority indicating that Canada intends to exercise the option.
- c) The option may only be exercised by the Contracting Authority, and the exercise of the option will be evidenced through a formal Contract Amendment.
- d) Price support may be requested.

#### **7.1.2 Task Authorization**

The Work or a portion of the Work to be performed under the Contract will be on an "as and when requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract.

##### **7.1.2.1 Task Authorization Process**

1. The Technical Authority will provide the Contractor with a description of the task using the "Task Authorization Form for non-DND clients" form specified in Annex C.
2. The Task Authorization (TA) will contain the details of the activities to be performed, a description of the deliverables, and a schedule indicating completion dates for the major activities or submission dates for the deliverables. The TA will also include the applicable basis and methods of payment as specified in the Contract.
3. The Contractor must provide the Technical Authority within 14 calendar days of its receipt, the proposed total estimated cost for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment specified in the Contract.
4. The Contractor must not commence work until a TA authorized by the Contracting Authority has been received by the Contractor. The Contractor acknowledges that any work performed before a TA has been received will be done at the Contractor's own risk.

##### **7.1.2.2 Task Authorization Limit**

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All task authorizations must be authorized by the Contracting Authority before issuance.

### 7.1.2.3 Periodic Usage Reports - Contracts with Task Authorizations

The Contractor must compile and maintain records on its provision of services to the federal government under authorized Task Authorizations issued under the Contract.

The Contractor must provide this data in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If services are not provided during a given period, the Contractor must still provide a "nil" report.

The data must be submitted on a quarterly basis to the Contracting Authority.

The quarterly periods are defined as follows:

- 1st quarter: April 1 to June 30;
- 2nd quarter: July 1 to September 30;
- 3rd quarter: October 1 to December 31; and
- 4th quarter: January 1 to March 31.

The data must be submitted to the Contracting Authority no later than ten (10) calendar days after the end of the reporting period.

### Reporting Requirement- Details

A detailed and current record of all authorized tasks must be kept for each contract with a task authorization process. This record must contain:

#### For each authorized task:

- i. the authorized task number or task revision number(s);
- ii. a title or a brief description of each authorized task;
- iii. the total estimated cost specified in the authorized Task Authorization (TA) of each task, exclusive of Applicable Taxes;
- iv. the total amount, exclusive of Applicable Taxes, expended to date against each authorized task;
- v. the start and completion date for each authorized task; and
- vi. the active status of each authorized task, as applicable.

#### For all authorized tasks:

- i. the amount (exclusive of Applicable Taxes) specified in the contract (as last amended, as applicable) as Canada's total liability to the contractor for all authorized TAs; and
- ii. the total amount, exclusive of Applicable Taxes, expended to date against all authorized TAs.

## 7.2 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.

### 7.2.1 General Conditions

[2030](#) (2016-04-04), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

## 7.2.2 Supplemental General Conditions

4001 (2015-04-01) Hardware Purchase, lease and Maintenance;  
4003 (2010-08-16) Licensed Software;  
4004 (2013-04-25) Maintenance and Support Services for Licensed Software; and  
4006 (2010-08-16) Contractor to Own Intellectual Property Rights in Foreground Information

apply to and form part of the Contract.

## 7.2.3 SACC Manual Clauses

B1501C (2006-06-16) Electrical Equipment  
A9068C (2010-01-11) Site Regulations  
A2000C (2006-06-16) Foreign Nationals (Canadian Contractor)  
A2001C (2006-06-16) Foreign Nationals (Foreign Contractor)

## 7.3 Security Requirements

1. The Contractor/Offeror must, at all times during the performance of the Contract/Standing Offer, hold a valid **Designated Organization Screening (DOS)** with approved **Document Safeguarding** at the level of **PROTECTED B**, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
2. The Contractor/Offeror personnel requiring access to **PROTECTED** information, assets or work site(s) must EACH hold a valid **RELIABILITY STATUS**, granted or approved by the CISD/PWGSC.
3. The Contractor **MUST NOT** utilize its Information Technology systems to electronically process, produce or store **PROTECTED** information until the CISD/PWGSC has issued written approval. After approval has been granted or approved, these tasks may be performed at the level of **PROTECTED B**.
4. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
5. The Contractor/Offeror must comply with the provisions of the:
  - (a) Security Requirements Check List and security guide (if applicable), attached at Annex D; and
  - (b) Industrial Security Manual (Latest Edition)

## 7.4 Term of Contract

### 7.4.1 Period of the Contract

The system design, the delivery of all related equipment, the completion of all installation, testing and contract related work is to be completed at the Site on or before ***(Delivery as offered and as accepted will be inserted at contract award)***.

The Contractor must submit a final delivery and installation schedule within 10 calendar days after the contract award date.

### 7.4.2 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered:

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DDP Delivered Duty Paid to the Peace Bridge Campus at 2 Peace Bridge Plaza, Fort Erie, Ontario L2A 0A7 (Traffic Building) and 10 Queen Street, Fort Erie, Ontario L2A 5N7 (Commercial Building), Incoterms 2000 for shipments from a commercial supplier.

#### **7.4.2.1 Inspection and Final Acceptance**

##### **1) Inspection**

Inspection shall be carried out by the Technical Authority or the authorized representative at destination.

##### **2) Final Acceptance**

- a) The Contractor shall be required to present the work, for final acceptance, when such work has been designed, manufactured, delivered to site and installed and has successfully passed all tests in strict accordance with the specification and terms and conditions, and the Contractor has performed all other work and complied with all the terms and conditions of the contract.
- b) Upon verification of the above, the Technical Authority will by written notice to the Contractor so acknowledge, and such notice shall constitute final acceptance.

Final Inspection and acceptance will take place at destination when all goods are delivered / services rendered, and after all deficiencies identified by the Technical Authority or the authorized representative are rectified and accepted.

## **7.5 Authorities**

### **7.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

**Robert (Bob) Dubé**  
**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: (873) 469-3936  
Facsimile: (819) 953-4944  
E-mail address: [robert.dube@pwgsc-tpsgc.gc.ca](mailto:robert.dube@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.

### **7.5.2 Technical Authority**

The Technical Authority for the Contract is:

**(To be completed at time of Contract award)**

Name: \_\_\_\_\_

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Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

The Technical Authority named above 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 Technical Authority, however the Technical 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.

### 7.5.3 Contractor's Representative

Name and telephone number of the person responsible for:

**(To be completed at time of Contract award)**

#### General enquiries

Name: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail: \_\_\_\_\_

#### Delivery follow-up

Name: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail: \_\_\_\_\_

### 7.5.4 Warranty Repairs

The contact person for warranty repairs to be performed on site as it may be necessary is as follows:

**(To be completed at time of Contract award)**

Response Time: \_\_\_\_\_  
Name: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail: \_\_\_\_\_

### 7.5.5 Emergency Services/Repairs

If requested by Canada Border Services Agency (CBSA), the Contractor shall be required to provide on-site emergency service/repairs not covered under the warranty provision of the General Conditions 2030 during the contract period. The emergency crew shall be paid as indicated herein. The response time shall not exceed four (4) hours. The contact person is as follows:

**(To be completed at time of Contract award)**

Name: \_\_\_\_\_  
Telephone: \_\_\_\_\_

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Facsimile: \_\_\_\_\_  
E-mail: \_\_\_\_\_

## 7.6 Payment

### 7.6.1 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 price for the equipment, installation and testing, travel expenses, on-site training, as-built drawings and manuals as specified in the Contract. Customs duties are included and Applicable Taxes are extra.

The Contractor will be paid firm hourly rates as follows, for work associated with emergency repairs, delays and performed in accordance with the Contract. Customs duties are included and Applicable Taxes are extra.

*Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.*

#### Task Authorizations

The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work specified in the authorized Task Authorization (TA), as determined in accordance with the Basis of Payment in Annex B, to the limitation of expenditure specified in the authorized Task Authorization.

Canada's liability to the Contractor under the authorized Task Authorization must not exceed the limitation of expenditure specified in the authorized TA. Customs duties are included and Applicable Taxes are extra.

No increase in the liability of Canada or in the price of the Work specified in the authorized TA resulting from any design changes, modifications or interpretations of the Work will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been authorized, in writing, by the Contracting Authority before their incorporation into the Work.

#### Travel for Task Authorized Work

The Contractor will be reimbursed for the authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for overhead or profit, in accordance with the meal, private vehicle and incidental expense allowances specified in Appendices B, C and D of the [National Joint Council Travel Directive](#) and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".

All travel must have the prior authorization of the Technical Authority. All payments are subject to government audit.

Estimated cost: \$ ***(to be inserted at contract award)***

### 7.6.2 Limitation of Price

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

### 7.6.3 Limitation of Expenditure - Cumulative Total of all Task Authorizations

1. Canada's total liability to the Contractor under the Contract for all authorized Task Authorizations (TAs), inclusive of any revisions, must not exceed the sum of \$ ***(to be inserted at contract award)***. Customs duties and Applicable Taxes are included.



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2. No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.
3. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
  - a. when it is 75 percent committed, or
  - b. four (4) months before the contract expiry date, or
  - c. as soon as the Contractor considers that the sum is inadequate for the completion of the Work required in all authorized TAs, inclusive of any revisions, whichever comes first.
4. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority, a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

#### **7.6.4 Discretionary Audit**

The Contractor's certification that the price or rate is not in excess of the lowest price or rate charged anyone else, including the Contractor's most favoured customer, for the like quality and quantity of the goods, services or both, is subject to verification by government audit, at the discretion of Canada, before or after payment is made to the Contractor.

If the audit demonstrates that the certification is in error after payment is made to the Contractor, the Contractor must, at the discretion of Canada, make repayment to Canada in the amount found to be in excess of the lowest price or rate or authorize the retention by Canada of that amount by way of deduction from any sum of money that may be due or payable to the Contractor pursuant to the Contract.

If the audit demonstrates that the certification is in error before payment is made, the Contractor agrees that any pending invoice will be adjusted by Canada in accordance with the results of the audit. It is further agreed that if the Contract is still in effect at the time of the verification, the price or rate will be lowered in accordance with the results of the audit

#### **7.6.5 Time Verification**

Time charged and the accuracy of the Contractor's time recording system are subject to verification by Canada, before or after payment is made to the Contractor. If verification is done after payment, the Contractor must repay any overpayment, at Canada's request.

### **7.7 Progress Payment Claim and Invoicing Instructions**

#### **7.7.1 Progress Payment Claim (Including Task Authorization Payments)**

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;
- c. a list of all expenses;
- d. expenditures plus pro-rated profit or fee; and
- e. the description and value of the milestone claimed as detailed in the Contract.

Each claim must be supported by:

- a. a copy of time sheets to support the time claimed;
  - b. a copy of the invoices, receipts, vouchers for all direct expenses, travel and living expenses; and
  - c. a copy of the monthly progress report.
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 Technical Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

The Technical 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.

#### 7.7.2 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions.
2. By submitting invoices the Contractor is certifying that the goods and services have been delivered and that all charges are in accordance with the Basis of Payment provision of the Contract, including any charges for work performed by subcontractors.
3. Invoices must be distributed as follows:
  - a. The Contractor must send the invoice to [vendors-fournisseurs@cbsa-asfc.gc.ca](mailto:vendors-fournisseurs@cbsa-asfc.gc.ca) for payment. This email address is to be used only for submitting invoices and for payment status inquiries.
  - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

#### 7.7.3 Schedule of Milestones

The schedule of milestones for which payments will be made in accordance with the Contract is as follows:

1 <sup>st</sup> Milestone	Design of the System	100% Design	List value – 10%	Approved Final Design Report
2 <sup>nd</sup> Milestone	Delivery of Equipment	100% Equipment	List value – 10%	Approved Packing Slip
3 <sup>rd</sup> Milestone	50% of Installation, including travel and living associated with installation	50% Installation, 100% travel and living associated with installation	(50% value of Installation + Travel and Living) – 10%	Approved Progress Report
4 <sup>th</sup> Milestone	Installation completion, software integration	50% installation, 100% software	(50% installation + 100% software integration +	Acceptance Tests Completed,

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	and testing including travel	integration and testing, 100% travel and living associated with Installation	100% testing + Associated travel) – 10%	All deficiencies resolved in Acceptance Test.
5 <sup>th</sup> Milestone	On-site Training and Documentation including travel	100% on-site training 100% Documentation 100% Travel and Living associated with On-site Training	(100% on-site training + 100% documentation + Travel and Living) – 10%	Handover sheets and training course Summary sheets, signed by trainees.
6 <sup>th</sup> Milestone	Holdback			All Deliverables Provided

#### 7.7.4 Method of Payment – Emergency Repairs and Delays

##### 7.7.4.1 Single Payment

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

- an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- all such documents have been verified by Canada;
- the Work delivered has been accepted by Canada.

##### 7.7.4.2 Travel and Living Expenses – Emergency Repairs, delays and design changes

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the [National Joint Council Travel Directive](#) and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".

All travel must have the prior authorization of the Technical Authority.

All payments are subject to government audit.

#### 7.8 Certifications

##### 7.8.1 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.

## 7.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in **(name of the province to be inserted at contract award)**.

## 7.10 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 supplemental general conditions:
  - (i) 4001 (2015-04-01) Hardware Purchase, lease and Maintenance
  - (ii) 4003 (2010-08-16) Licensed Software;
  - (iii) 4004 (2013-04-25) Maintenance and Support Services for Licensed Software; and
  - (iv) 4006 (2010-08-16) Contractor to Own Intellectual Property Rights in Foreground Information
- (c) the general conditions 2030 (2016-04-04), General Conditions - Higher Complexity - Goods;
- (d) Annex A, Statement of Work;
- (e) Annex B, Basis of Payment;
- (f) the signed Task Authorizations (including all of its annexes, if any);
- (g) Annex D, Security Requirements Check List (SRCL); and
- (h) 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)).*

## 7.11 Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

## 7.12 Meetings

A meeting may be convened after contract award at a location to be determined by the Contracting Authority to review contractual and technical requirements. The Contractor will be responsible for the preparation and distribution of the minutes of meeting. The meeting will be held with representatives of the Contractor, the Department of Public Works and Government Services and Canada Border Services Agency (CBSA).

## 7.13 Contractor's Facilities

The Contracting Authority and the Technical Authority, or their delegated representative shall be afforded access to the Contractor's plant and all other premises where pertinent processes are being performed.

## 7.14 Delay by Canada

In the event that an installation crew proceeds to the site but is unable to perform the work due to any disturbance or other delays caused by Canada at the site, the Contractor shall immediately notify the Technical Authority. The cost of holding the installation crew on standby shall be paid as indicated herein. In no event shall a crew remain on standby for more than four (4) hours per day without prior authorization.

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#### **7.15 After Sales Service**

The Contractor certifies that it is capable of providing after sales service, subsequent to the warranty period, including servicing personnel and facilities during the lifetime expectancy of the equipment.

#### **7.16 Lifetime Spares**

It shall be a condition of any contract resulting here from that the Contractor undertakes to supply spare parts for the equipment proposed during the life expectancy of the equipment.

Life of the equipment: **(to be inserted at contract award)** years.

Should the Contractor discontinue the manufacture of the equipment being procured during the life expectancy of the equipment, it shall notify Canada sufficiently in advance to permit the purchase of spares for the remaining life of the equipment or, at the discretion of Canada, either make satisfactory arrangements with a third party to establish a continuing source of spares or provide to Canada, at no charge, a non-exclusive royalty free license to manufacture and have manufactured for its own use spare parts, and provide copies of all drawings, technical information, specifications, manufacturing instructions and patterns necessary to manufacture the spares.

#### **7.17 Disclosure of Information**

The Contractor shall keep confidential and shall not publish or otherwise reuse, release, disclose or make available to any third party any Background or Foreground Information concerning as built drawings, site drawings and manuals, except as may be necessary to carry out the Work under the Contract in which case the Contractor shall impose the same obligation of confidentiality on any person to whom the information is disclosed.

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## **ANNEX "A" - STATEMENT OF WORK (SOW)**

### **CANADA BORDER SERVICES AGENCY (CBSA)-SOUTHERN ONTARIO REGION (SOR)**

### **CLOSE CIRCUIT TELEVISION (CCTV) SYSTEM UPGRADE AND EXPANSION 2017 / 2018 PEACE BRIDGE CAMPUS.**

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#### **TABLE OF ABBREVIATIONS**

<b>Abbreviation</b>	<b>Expansion</b>
ABM	Advanced Battery Management
ACL/ACLs	Access Control Lists
ANSI	American National Standards Institute
API	Application Programming Interface
ASF	Advanced System Format
AVI	Audio Video Interleave
AVMS	Advanced Video Management Systems
CAS	Card Access System
CBSA	Canadian Border Services Agency
CBSA – SOR	Canadian Border Services Agency – Southern Ontario Region
CCTV	Closed Circuit Television
CLI	Command Line Interface
COTS	Commercial Off the Shelf
CSA	Canadian Standards Association
C/W	Complete With
DEU	Drug Enforcement Unit
DVDs	Digital Versatile Disc
DHCP	Dynamic Host Configuration Protocol
EIA	Electronic Industries Alliance
EPDU	Electrical Power Distribution Unit
FO	Failover
FPS	Frames per second
GBAC	Group Based Access Control
Gbps	Billion of bits per second
GUI	Graphical User Interface
HP	Hewlett Packard
IEEE	Institute of Electrical and Electronic Engineers
IP	Internet Protocol

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ICMP	Internet Control Message Protocol
ID	Identification
IGMP	Internet Group Management Protocol
iSCSI	Internet small computer systems interface
ISP	Internet Service Provider
IT	Information Technology
KVA	Kilo Volts Amperes
KVM	Keyboard Video Mouse
LAN	Local Network Area
LLDP	Link Layer Discovery Protocol
MAC	Media Access Control
MIB	Management Information Base
MLD	Multicast Listener Discovery
MPIO	Multipath Input Output
NAS	Network Area Storage
NIC	Network Interface Controller
NFPA	National Fire Protection Association
NMS	Network Management System
NTP	Network Time Protocol
O.S.H. A	Occupational Safety and Health Act
OELA	Open Enterprise Level Architecture
ONVIF	Open Network Video Interface Forum
PC	Personal Computer
PCVS	Personal Computer Viewing Station
PDA	Power Distribution Unit
PBA	Peace Bridge Authority (aka – Public Bridge Authority)
PBT	Peace Bridge Traffic
PBT EMP LOT	Peace Bridge Traffic Employee Parking Lot
PBT NS PIL	Peace Bridge Traffic North Side Primary Inspection Lane
PBT SEC	Peace Bridge Traffic Secondary Area
PBT SS PIL	Peace Bridge Traffic South Side Primary Inspection Lane
PDU	Power Distribution Unit
PIL	Primary Inspection Lane
PIN	Personal Identification Number
POEs	Ports of Entry
PoE	Power over Ethernet

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PoE +	High Power over Ethernet
PPM	Periodic Preventative Maintenance
PSPC	Public Services and Procurement Canada
PTZ	Pan and Tilt Zoom
QoS	Quality of Service
RAIDS	Redundant Array of Independent Discs
RBAC	Role Based Access Control
RC	Remote Closet
RFC 1918	Request for Comment
RFP	Request for Proposal
RMON	Remote Network Monitoring
RPM	Remote Power Module
RPO	Remote Power Off
RPU	Refugee Processing Unit
ROO	Remote On/Off
SAN	Storage Area Network
SCSI	Small computer system interface
SDK	Software Development Kit
SET	Secondary Enforcement Team
sFLOW	Sampled Flow
SFP	Small Form factor pluggable transceiver
SMA	Service Management Agreement
SMTP	Simple Mail Transfer Protocol
SNMP	Simple Network Management Protocol
SNMPc	Simple Network Management Protocol console
SNMPv3	Simple Network Management Protocol version 3
SOW	Statement of Work
SSHv2	Secure Shell version 2
SSL	Secure sockets layer
TIA	Telecommunications Industry Association
TBD	To Be Determined
TCP/UDP	Transmission Control Protocol
UDLD	Uni-Directional Link Detection
UPS	Uninterrupted Power Supply
USB	Universal Serial Bus
ULC	Underwriters Laboratories of Canada



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VACIS	Vehicle and Cargo Inspection System
VLAN	Virtual Local Area Network
VMS	Video Management System
VPN	Virtual Private Network
VTP	VLAN Trunking Protocol
WORM	Virus that replicates itself
XRMON	Extended Remote Network Monitoring

## 1.0 Objective

CBSA has a requirement to upgrade and expand their current CCTV system. The current CCTV system is closed proprietary architecture. The Contractor is also required to establish maintenance and support agreements for the new system. The competency and responsibility of the bidders and their proposed sub-contractors will be considered in making the award. Proposals must comply with these instructions to be eligible for consideration.

## 2.0 Background

CBSA is currently involved in a redevelopment project at the Peace Bridge Campus in Fort Erie. This project will provide an opportunity to upgrade and expand the current CCTV system to an "Open Enterprise Level Architecture – OELA".

With moving to a non-proprietary architecture it will allow CBSA to:

1. Quickly scale the CCTV system as CBSA changes and grows;
2. Have a system with failover functionality that in-turn provides high availability;
3. Be in-line with the CBSA's future plans;
4. Have industry standard IT components i.e. servers, storage arrays, network gear, etc.

The CBSA service site information as follows:

<u>Site</u>	<u>Address</u>
Peace Bridge Campus	2 Peace Bridge Plaza, Fort Erie, L2A 0A7 (Traffic Building) 10 Queen Street, Fort Erie, L2A 5N7 (Commercial Building)

## 3.0 Scope

1. The specifications in this Statement of Work are not intended as a detailed description of installation methods but serve to indicate particular CBSA requirements.
2. The work consists of updating and expanding with an Open Architecture CCTV system, as noted on the project drawings, in accordance with the project specifications and CBSA's directives and needs. At the beginning of the project the Contractor will also consult with CBSA project authority on the design, installation and configuration of the CCTV system to provide the exact function described herein, when specified, and will be held responsible for the system's operational criteria. The Contractor must provide and install a complete and fully operational system, with the intended features and capabilities, whether or not all required parts, components, systems or accessories are specified in the project documents. The Contractor must provide all required parts, components, systems, materials and accessories needed for a complete and working system at each project site, without additional cost to the CBSA. The Contractor acknowledges that if there are any CCTV and/or ancillary components, hardware, software or labour that are not specifically indicated, the Contractor must provide for an installation of functional systems in

compliance with each specific manufacturers installation guidelines. The Contractor must adhere to best practices for the installation of video, network and power cabling infrastructure.

3. The Contractor must provide knowledge, labour, materials, scissor lifts, tools, equipment and services to deliver and install equipment, devices and components required for a complete and operational Open Architecture CCTV System at the Peace Bridge Campus, Fort Erie (Building - 2 Peace Bridge Plaza and Building - 10 Queen Street).
4. If requested by CBSA project authority, the Contractor must co-ordinate all work with other trades, CBSA Operations, Peace Bridge Authority, Infrastructure Staff and CBSA Security staff.
5. The work must adhere strictly will all rules, regulations, By-laws and requirements of each authority as it pertains to their facility having jurisdiction. Peace Bridge Authority (PBA). Specifications and drawings must not conflict with the above regulations but where there are apparent discrepancies the Contractor must notify the Project Authority, in writing, and obtain clarification before proceeding with the work.

#### 4.0 Tasks

In no particular order, the Contractor must perform the following tasks at each project site:

1. Decommission (removal) of the existing proprietary CCTV system. All decommissioned equipment related to the existing CCTV system must be reviewed with CBSA to determine what equipment will be kept. Disposal is the sole responsibility of CBSA and the Contractor is to set aside the old hardware that was replaced.
2. Prior to the installation, configuration and integration of the full CCTV system, the Contractor must inspect and test the equipment provided by CBSA in section 5.0 below to substantiate that the equipment is functional, then the Contractor must provide an Inspection and Testing Report to the Technical Authority.
3. Supply and install new IP cameras
4. Install alpha-numeric barcodes that will be used to track these cameras as part of the life cycle management of assets. CBSA will supply the alpha-numeric barcodes.
5. Install various CCTV hardware supplied by CBSA – details in the section 5.0 client support section and the SOW below.
6. Provide and install the Contractor supplied hardware and software.
7. Supply, install and configure a Video Management System (VMS) in accordance with Appendix “B”.
8. Document the CCTV IP network and VLAN scheme as per section 14.3 and Appendix “F”.
9. On a CBSA provided PC install, configure and test Network Management software on the Network Management Station (NMS) as per section 14.4.
10. Supply, install, configure and test layer 2 and 3 switches as per sections 14.5 and 14.6.
11. Migrate from the existing CCTV system to the new CCTV system as per section 14.7

#### 4.1 Constraints

1. 100% of the work must be completed within 20 weeks after contract award.
2. Work can be performed at any time from Monday to Sunday, Contractor must submit weekly work schedule for CBSA approval. There will be no additional cost to CBSA for work performed outside Normal Working Hours (i.e. between the hours of 8:00 a.m. to 5:00 p.m., local time).

3. Work must start immediately after the contract is awarded.
4. Primary Inspection Lane (PIL) booths to be closed for installation a maximum of 2 at a time.

## 5.0 Client Support

CBSA will provide the following:

1. All copper CAT5e/CAT6 and fiber data horizontal cabling for both Peace Bridge Campus buildings
2. 6 - HP DL360p Gen9 8SFF E5-2650v3 Servers
3. 2 - HP MSA 2040 SAN Chassis
4. 4 - HP MSA 2040 SAN Expansion Chassis
5. 72 - HP SAN 3TB hard drives.
6. 1 - VPN Router
7. 7 - HP Z440 E5-1650v3 3.50 GHz workstations for video client and NMS and 7 - 23" monitors.
8. 1 - HP TFT7600 G2 KVM Console
9. 1 - HP 0X2X16 KVM Switch

## 6.0 Schedule

### Peace Bridge Campus (2 buildings, Traffic and Commercial), Fort Erie

1. The existing building access for the Contractor to start replacing the CCTV system will be provided after contract is awarded.
2. The Contractor must complete the installation of the full CCTV system within 20 weeks after contract award.

## 7.0 Deliverables

1. The supply and installation of all equipment as detailed herein including CBSA supplied HP servers, HP storage arrays and PC workstations.
2. The Contractor must forward, at no additional cost and prior to completion, a complete set of electronic as built drawings detailing all system power, camera and video control locates. Submitted drawings must be provided on CD-ROM in AutoCAD format. All drawings must be supplied in an uncompressed format.
3. The Contractor must supply, to CBSA Project Authority, prior to completion, a written record of each component's serial number and manufacturer name, complete with model number.
4. The Contractor must provide a demonstration of the Advanced Video Management System (AVMS) to CBSA. This demonstration session must be approved and signed off by CBSA Project Authority.
5. The Contractor must prepare and provide six (6) on-site training courses in English of four-hour each to a group of no more than five CBSA Operator/Trainers responsible for the operation of the CCTV system. The course must be provided within two weeks of the successful acceptance testing of the system. The course must concentrate on the features and proper operation of the installed system with hands on experience. CBSA will provide the training room and the Contractor will be responsible for the connectivity.
6. The Contractor must provide 2 Genetec Certified training SC-OTC001 for up to 10 people on the configuration, operation, support and maintenance of the newly installed AVMS within one three (1) months of the completion of the installation. The Contractor must supply all necessary material to facilitate the training.

7. The Contractor must provide ongoing support and warranty service to CBSA for all equipment as detailed herein including CBSA supplied HP servers, HP storage arrays and PC workstations for a period of three (3) years.
8. The Contractor must compile and provide a report linking the asset tags done on installation to the hardware's serial numbers. The format of the report must be in an excel sheet detailing the matching asset to the serial number, part numbers, and part type.

#### 8.0 Equipment to be supplied by the Contractor:

- CCTV Cameras as defined by the camera specification (see Appendix "A"), for all other requirements see Appendix "B", "C", "D", "E", "F", "G", "H".
- Supply and install all viewing commercial grade monitors (19) various sizes, see Appendix "H"

Contractor must provide and install the following:

Peace Bridge Campus, Fort Erie (2 buildings, Traffic and Commercial)  
(Refer to Camera Assignment List – Peace Bridge Campus in Appendix "A")

- 195 new cameras
- UPS's as defined by technical requirements and in Appendix "D"
  - 1- 10 KVA for the main CCTV room;
  - 6 – 1500 VA UPS's - one for each network remote switch; and
  - 11 – 1500 VA UPS's – one for each workstation.

Operational and Strategic Context for UPS (Uninterrupted Power Supply) & PDU (Power Distribution Unit):

It is crucial for the CBSA's CCTV network's equipment (servers, switches, etc.) to have an enterprise level UPS with high availability, reliability and clean backup power. The POEs are notorious for power surges, brown-outs and blackouts so it is vital to have the power equipment outlined in this technical requirement.

This equipment also must have energy efficient certified power factor over 90% that aligns with CBSA's sustainable development mandate.

This UPS / PDU configuration must utilize hot-swappable batteries that will maximize the up-time and availability of the CCTV network; this UPS configuration has to allow CBSA to connect more devices in a smaller footprint; it has to have a 93% efficiency rating; and has to have a 50% increased battery service life.

The UPS requires a Network Remote Management card to allow CBSA to monitor the health of this power infrastructure at each POE

- 1 –PDU as defined by technical requirements in Appendix "D", "G"
- 2 – Enterprise Network Switches – full redundancy (i.e. power supply, backplane, etc.) as defined by technical requirements in Appendix "D", "E"

Network Switch Operational and Strategic Context:

It is crucial for the CBSA's CCTV networks to have enterprise level switches and connectivity to provide high availability and reliability. For the **Main Core Switch** CBSA will only accept a chassis style switch that has redundancy built in. For example the redundant power supplies and backplane. **CBSA will not accept** edge or workgroup style switches for the **Main Core Switch** that does not have redundancy inherently built into their design.

The foundation of this switch infrastructure is that they are programmable which allows for features such as Quality of Service (QoS) defined as the overall performance of a telephony or computer network, particularly the performance seen by the users of the network and security. This switch infrastructure is scalable with the ability to have 10/100/Gigabit and 10 Gigabit interfaces with integrated PoE (Power over Ethernet) and PoE+ (PoE plus) for power to devices like cameras.

#### Hardware and Software

1. Provide all camera mounts and hardware
2. Provide all viewing station monitor wall mount brackets and hardware
3. Provide NEC MultiSync C431/C501/C551 or equivalent for all monitors over 23" for PC Viewing stations.
4. Provide Seven (7) NVIDIA GTX1080 video cards for the HP workstations model HPI Z440 E5-1650V3 3.5G.
5. Provide all network equipment as detailed in this RFP.
6. Video management system software as defined by Requirements on Appendix "B"
  - a. All necessary licenses for the whole CCTV System including but not limited to VMS licenses, Camera licenses, viewing workstation licenses, etc...
  - b. Provide Genetec five (5) year 24/7 Advantage Software Maintenance Agreement commencing on project acceptance
  - c. Supply and install the latest version Windows SQL Standard on all CBSA supplied Archive video servers(4)
  - d. Supply and install Windows Server 2012R (or latest approved version) on all CBSA supplied servers (6).
7. Cables
  - a. All cables and patch cords for: servers, cameras, network other than items mentioned in Section 5.0 (Item #1).
  - b. All HP KVM cabling for the servers and NMS for a total of 16 cables.
  - c. Miscellaneous control cabling
  - d. Power bars
8. Provide all power supplies as required including all viewing monitors
9. Connectors as required
10. Commercial grade viewing monitors as described in Appendix "H"

### **9.0 CCTV System**

#### **Cameras – Existing and New CCTV System**

The site currently has a CCTV system based upon IP and analog cameras.

Contractor must replace all existing IP and analog cameras with cameras that meet the requirements described in Appendix "A".

The Contractor must also provide new IP cameras.

All new IP cameras must meet the requirements described in Appendix "A".

The audio on all cameras must be disabled unless otherwise specified

### **10.0 Video management system (VMS)**

The VMS must meet the requirements described in the Appendix "B".

### **11.0 PC Viewing Stations – PCVS**

- Contractor to supply, install, configure and setup all the CBSA provided PCVS workstations with monitors as described in Appendix "H". This includes all mounts, brackets, video cables, screws and

wall reinforcement for wall mounting these monitors. Configure all CBSA provided PCVS workstations with the VMS client software.

- Contractor to supply and install 120-volt / 15-amp duplex outlets for each monitor(s) location (19).

## **12.0 The Contractor must complete the following:**

### **12.1 Hardware/VMS Setup based on CBSA provided systems**

See Appendix "B" for VMS and "C" for hardware cabinet layout.

#### **In no particular order:**

1. Supply and install new UPS near CBSA provided rack. Contractor must include the electrical power cabling from emergency power circuits. See Appendix "G".
2. Install on CBSA provided vertical and horizontal racking the UPS RPMs, PDUs and switches. Refer to Appendix "C".
3. Install new HP KVM in the CBSA provided 4-post rack (room 4059). Connect all associated equipment. Contractor to supply and install 16 HP KVM cables.
4. Supply, install and configure new network core switch and remote site switches – See Appendix "E".
  - a) Supply, install and configure new layer 3 core switch in the CSBA provided 4-post rack (room 4059)
  - b) Supply and install all closet switches.
  - c) Contractor must be responsible for any addition port requirements.
5. Setup and Install servers (CBSA supplied) in main CCTV room - 4-post rack (room 4059).
  - a) Supply and install Windows 2012 Standard R2 on each Server. Windows and hardware drivers must be updated to the latest available versions/patches.
  - b) Supply and install SQL standard 2012 on all servers.
  - c) Connect servers to CBSA provided HP KVM using the Contractor provided HP KVM cables (16).
  - d) Install latest version of Genetec Security Center VMS publicly available at time of install, including current patches/HIP software if available. Minimum Genetec VMS Software to include camera failover (per camera), 15 client licenses, 200 camera licenses, 1-Failover Directory, 2 federation directory, 2 keyboard connections. 5-year SMA.
  - e) Configure new servers to act as Directory Server/Backup Directory Server and Archivers.
    - Each new Directory Server will also be used as a FO. Archiver.
    - Each Archive server must have all cameras equally distributed. Each archiver server must have half the cameras failover on each failover Archive server.
6. Install new iSCSI SAN array (CBSA to Supply). Dual controllers, multiple Gigabit network connections (Refer to Appendix "E"). Configure teaming and failover for iSCSI ports and controllers.
7. Setup the array in RAID6, one physical drive per chassis and partition each array into six (6) logical partitions (2.5%, 2.5%, 23%, 24%, 24% and 24%). Archive servers to access iSCSI array via dedicated network interface ports (min two (2) per server – MPIO).
8. Configure all cameras to achieve the following:
  - a. Three video streams – one stream to act as a lower resolution stream for viewing in a multi-tiled viewing client (low resolution). Second stream configured as full resolution/frame rate based upon

- 
- the camera type for viewing full screen and recording, and a third stream configured as remote low frame rate (3FPS) for remote viewing,
- b. Ensure cameras are configured to failover to secondary and tertiary Archivers in the event of failure of its primary Archiver.
  - c. Configure all PTZ cameras with defined patterns, Presets, guard tours, home positions, etc. to meet CBSA requirements.
9. Reconfigure all CCTV Live Viewing clients (PCVS) to auto-detect the type of stream to be used.
10. Configure the VMS for multicasting.
11. Configure iSCSI Array, Server and VMS to send SNMP traps to NMS. Traps to include:
- a. Temperature alarms
  - b. Hardware failure (e.g. hard drive, power supply, memory)
  - c. Invalid login attempts
12. Configure the NMS (PC workstation provided by CBSA) as NTP master, using internet clock as source. Ensure all client workstations, and VMS servers sync to master.
13. Set up VMS database automatic backups to occur nightly at 03:00 hours.
14. Setup and configure for:
- a. Eleven (11) CBSA PC Viewing Clients (PCVS) – Contractor to supply and install 19 monitors as described in Appendix “H”.
  - b. Provide UPS circuits or 1500VA on-line dual conversion UPS's with network card for viewing clients and monitors.
15. The Contractor must supply and install all other required equipment not provided by CBSA for a complete and operational system. Includes cabling, boxes, devices, patch cords, power supplies, connections, terminations, programming, pole, conduit, etc.

## 12.2 Network

The Contractor must create and document an IP addressing and VLAN scheme to incorporate the distinct services the network carries. See Appendix “F”.

Also, the Contractor must enable security boundaries on the network to securely segregate the following services CCTV, CAS, allowing only specific types of traffic to cross these boundaries. See Appendix “E” for the Network Logical Diagram.

## 12.3 Addressing Scheme

See Appendix “F” for IP scheme.

1. Contractor to work with CBSA Project Authority to devise a master IP network address and VLAN strategy to allow:
  - a. Network managed devices will reside on their own VLAN. This would include switch management, UPS SNMP, NMS, etc.

- b. CCTV clients, cameras, servers and locations will each have their own IP network/VLAN (i.e. 4+ VLANs).
  - c. Internet router/firewall will reside on its own VLAN
2. IP addressing must be based upon RFC1918 private IP address ranges.
3. A single IP network address will not exceed a /24 in length.
4. VLAN 1 not to be used, other than as a 'black hole' VLAN for undefined ports.
5. Create two master network tables and IP addressing/VLAN network numbering scheme to incorporate: VLAN numbers and names, IP networks and individual addressing, and switch port assignments. Addressing will be based upon RFC1918 private IP address ranges. One table must be grouped by VLAN/IP network and linked to the second table which must be grouped by switch. Example tables are attached.
6. Contractor must populate tables with all switch names, room numbers, serial numbers, models, IP network addresses, VLAN names/numbers and port numbers populated.
7. Contractor must populate tables with information regarding any devices they connect to switches (e.g. UPS SNMP cards, trunk ports, etc.). UPS to always to connect to port 1.
8. Tables must be submitted to CBSA Project Authority on two (2) USB keys in unlocked Microsoft Excel format to be populated with all devices connecting to network by others.

## 12.4 Network Management Station

1. Install one PC Network Management Station (NMS) provided by CBSA:
  - a. Contractor must supply and install Network Management Software capable of;
    1. Receiving SNMP traps from various devices
    2. Graphically displaying network layout
    3. Configuration of SNMP capable devices
    4. Automatic forwarding of selected traps via SMTP
    5. Active pinging of devices to monitor uptime
    6. Compiling various vendor management information base (MIB) files
    7. Acceptable packages include WhatsUpGold, SNMPc, LortPro, HP Management or an approved equal package.
    8. Contractor to capture all network alarms trapped by the SNMP protocol. Contractor to notify CBSA of these alarms as they occur via email and text message.
2. Configure NMS as master source NTP Clock.
3. CBSA to supply VPN Router, Contractor must install Internet router/firewall to support sending of SMTP messages representing system alarms.
  - a. Configure firewall to allow incoming traffic only to NMS.
  - b. Configure firewall to allow outbound traffic only from NMS.
  - c. Connect router/firewall to ISP demarcation point and to CBSA network switch
  - d. Statically configure IP address/mask/gateway on internal LAN port

## 12.5 Layer 2 Switches: Contractor to supply

Secondary switches

The Layer 2 switches must meet the requirements described in the Appendix "D".

1. Install Layer 2 network switches in remote closet (RC) locations.
2. Configure Layer 2 switches to the following specifications:



- a. Install latest firmware publically available from manufacturer at time of install.
  - b. Statically enable all VLANs on switch as defined in master addressing table, relevant to specific switch location. VTP will not be used.
  - c. Program VLAN names for each VLAN on switch
  - d. Configure management VLAN with appropriate IP address, subnet mask and default gateway.
  - e. Program all VLANs to incorporate member ports as per master table (untagged) and tagged on the trunk ports. Ports not in use will remain on VLAN 1.
  - f. Configure NTP on switch to sync with master source.
  - g. Configure switch to send critical SNMP traps to NMS
  - h. Ensure IGMP Snooping is enabled on CCTV VLAN(s)
  - i. Configure Hostname on Switch to reflect switch name created in tables.
3. Install fiber SFP in first available modular port on switch.
  4. Connect fiber patch cable from fiber cable tray to SFP module.
  5. Supply and install cat6 patch cable connecting SNMP NIC to switch
  6. Label front of switch with switch name and management IP address.

## 12.6 Layer 3 Switches: Contractor to Supply

Main core switch

The Layer 3 switches must meet the requirements described in the Appendix "D".

1. Install Layer 3 network switch in CBSA provided 4-post rack (room 4059).
2. Configure Layer 3 switch to the following specifications:
  - a. Install latest firmware publically available from manufacturer at time of install
  - b. Statically enable all VLANs on switch as defined in master addressing table. VTP will not be used.
  - c. Program names, IP addresses and subnet masks for each VLAN.
  - d. Enable IP unicast and multicast sparse mode routing.
  - e. Configure NTP on switch to sync with master source
  - f. Configure switch to send critical SNMP traps to NMS
  - g. Configure appropriate hostname on switch
  - h. Program all VLANs to incorporate untagged and tagged member ports.
  - i. Enable IGMP snooping on CCTV VLAN(s)
3. Install SFP modules where required.
4. Connect fiber patch cables from fiber cable tray to SFP modules.
5. Implement Access Control Lists (ACLs) on the switch to accomplish the following:
  - a. Block all traffic between various VLANs/IP networks
  - b. Block all traffic entering VLAN/IP networks from other networks
  - c. Allow bi-directional ICMP Echo and SNMP traffic between management VLAN and all other VLANs. Block all other traffic
  - d. Block all non-relevant traffic between client, camera and server networks. Exact TCP/UDP port numbers and IP addresses will be determined by CBSA Project Authority.
  - e. Block all traffic, except coming from/going to NMS, from/to Internet VLAN.
6. Label front of switch with switch name and management address.

## 12.7 Network Migration

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1. The new network must be built in parallel to the existing network to minimize any impact on normal CBSA operations.
2. Once new network has been installed, tested and accepted by CBSA, Contractor must decommission legacy video system within 15 working days and turn over to CBSA.

### **13.0 General Requirements**

1. Complete the installation of the work in accordance with the latest editions of the Ontario Building code, Provincial Electrical Safety Code, CSA, ANSI/TIA/EIA, ULC, NFPA, O.S.H.A and other applicable Codes, as required. Comply with Electrical and Building Code Bulletins.
2. Visit the site and examine the existing conditions affecting the work of this facilities. No claim for extra payment must be made for extra work made necessary by circumstances encountered due to conditions which were visible upon, or reasonably inferable from an examination of the site prior to submission of the Bid. This includes the existing services above ceiling. If an unforeseen condition is discovered at the time of the installation and it directly affects the delivery of the project, a change order would be created and the CBSA Project Authority and PSPC Contracting Authority would have to approve the cost and an amendment to the original contract would be required prior to work commencing.
3. Wherever the words "provide" or "supply and install", are used, it must be understood to mean "provide and install, inclusive of all labour, materials, installation, testing, and connections for the item to which referred.
4. All materials and equipment must be new and unused products of only the most recent manufacturer model or version number, CSA certified, and manufactured to the Standards specified. Where there is no alternative to supplying equipment, which is not CSA certified, obtain special approval from the local Electrical inspection Department.
5. Submit to the local Electrical Inspection Department, the necessary number of documents for examination, special inspection and approval, prior to the commencement of the work, and pay all costs and associated fees. Provide Certificate(s) of Acceptance from the Authorities Inspection Department, to CBSA Project Authority upon completion of work.
6. Provide tools and clean up equipment. Obtain the Landlord's permission for the use of electrical, elevator, plumbing or drainage outlets. Provide daily clean-up and proper disposal of debris generated by daily operations. On completion of the work, all tools, surplus materials and waste materials must be removed and the premises left in a clean condition.
7. Any discrepancies between drawings and/or specifications and existing conditions, must be referred to CBSA Project Authority before beginning any work.
8. The Drawings for the work are diagrammatic performance drawings only, intended to convey the scope of work, indicate the general arrangement and approximate location of equipment. The Drawings do not intend to show Architectural, Interior Design, Mechanical, Structural or base building details. The Contractor must be responsible for a thorough knowledge of same before proceeding with the work.

9. It is the intent of these drawings and specifications that the Contractor delivers complete and operational systems as required. Any miscellaneous items, hardware, devices, wiring, etc., not specifically described, but required for the operation of the system, must be provided and included as part of the deliverables.
10. All cutting and patching required to the existing building structure for the work must be included under the contract and be acceptable to the CBSA Project Authority and the Landlord before commencement of work and after the work is complete. Written approval must be obtained from CBSA Project Authority and the landlord before any cutting is carried out
11. Before core drilling floor slab or structural walls, the Contractor must X-ray slab or walls and have the locations accepted by CBSA Project Authority and the Landlord in writing. Any existing building service damaged by core drilling must be repaired immediately at no cost to Landlord or Owner. Floor drilling to be carried out at time acceptable to Landlord and CBSA and allowances for this work must be provided at no additional cost.
12. Where specified, install all equipment provided by the CBSA. The Contractor must receive, store and install equipment and accept full responsibility for its correct operation. The Contractor must confirm power requirements of all equipment supplied and also ensure that all electrical equipment supplied by sub-contractors is suitable for the respective voltage standard that is used by the facility.
13. All equipment must be cleaned and tested before final acceptance by the CBSA. From the date of issuance of a "Certificate of Substantial Performance", all equipment, materials and workmanship, must be unconditionally warranted for no less than one (1) year. Defects and deficiencies which originate or become evident during the warranty period must be repaired or replaced at no cost. All work relating to the replacement of defective items must be carried out at a time which is acceptable to CBSA.
14. After the work is completed, give a written guarantee for one (1) year covering workmanship and materials. Repair or replace, without additional cost, any defects in workmanship or materials which are not due to misuse or neglect.
15. At time of installation the project sites may have installed ceiling tiles, access floor tiles, finished walls, floors and carpeting. The Contractor must be responsible for:
  - a) The removal and replacement of any carpeting, access floor and/or ceiling tiles required to install the equipment.
  - b) The movement and replacement of any obstructing furniture.
  - c) Daily "end-of-day" cleanup of all materials, dust and debris created by the current day's installation activities.
  - d) Any damages to base building and finished structures, furniture, walls, access floor or ceiling tiles, carpets, floors, etc. that are caused by the Contractor's personnel and/or equipment.
16. The Contractor must be responsible for:
  - a) Recording all panels, equipment, and patch cable numbers onto a record set of drawings.
  - b) The CBSA's reviewed shop drawings.
  - c) The systems Physical and Logical diagrams.
  - d) Network master IP list. Refer to attached sample in Appendix "F"
  - e) Equipment Manifest. Refer to Appendix "A" for majority of equipment.
  - f) Contractor's commissioning and all commissioning documentation related to CCTV system upgrades and installation.
  - g) Decommissioning and recording of equipment.
17. The Contractor must provide four (4) maintenance manuals in English (three (3) hardcopy and one (1) softcopy) to CBSA for review. Review information provided in the maintenance manual with CBSA. Discuss maintenance instructions as well as the security equipment and systems and their operation.

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18. All system design and programming information will be deemed confidential. All programming and documentation will be done at site on CBSA PC's and is not to be removed from the premises. Any removal of system programming and design documentation from site will be deemed a security risk and may require the reprogramming of the entire system. The reprogramming and documentation will be done at the Contractor's expense by a CBSA chosen 3rd party or employee. All software documentation, DVDs, keys and PIN codes are to be given to CBSA-SOR Security. CBSA will provide an employee(s) that are to be given full Administrator rights to the system. No locking out of CBSA security to any functionality in the CCTV system by the Contractor.

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## **APPENDIX "A" - S-CCTV Specification Document - Peace Bridge Front End - Cameras**

### **1. Introduction**

This document outlines the technical requirements for the Request for Proposals (RFP) document to acquire and install the requested CCTV equipment at the Peace Bridge Front End Port of Entry.

### **2. Scope**

In this project, the requirements are limited to the cameras installed within the CBSA controlled area of the Peace Bridge Front End.

IT equipment, such as cables, servers, viewing stations and Switches are specified in Annex A – Statement of Work (SOW).

### **3. Specifications for the CCTV System equipment – General**

The supplied equipment and services must meet or exceed all of the specifications defined below. The supplied equipment is to be new, not used or refurbished. Systems not meeting all the following Mandatory Specifications will be considered non-compliant.

Please note that compliance with the stated criteria must be demonstrated by submission of supporting documentation such as technical literature/brochures, operating manuals, and/or written statement describing how each requirement is met. If a bidder only states "comply" without any further details, this is not considered as a demonstration of compliance.

Proposal evaluation will be based upon the information supplied with the bid only. Failure to demonstrate compliance with any area of the criteria will render your proposal non-responsive and no further consideration will be given. References are to be specific to supporting documentation (ex. document title, page, and paragraph number).

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#### 4. CCTV System Equipment List

#	Zone	Location	Equipment	Reference #
1	Commercial 1st	Building Entry From Queen St	C1	D-1.2-80/VW5
2	Commercial 1st	Cash Entry	C2	D-1.2-100/V
3	Commercial 1st	Front Counter - Room 101	C3	D-1.2-100/V
4	Commercial 1st	Public Foyer	C4	D-2.3-100/V
5	Commercial 1st	SET (Secondary Enforcement Team) Entry (Former CET Entry)	C5	D-2.3- 100:Co/V
6	Commercial 1st	Cell/Search Room, RM 141	C6	C-1.5- 120:I1/V
7	Commercial 1st	Targeters Hallway Entry	C7	D-1.2-100/V
8	Commercial 1st	Interview Room - Room 109	C8	D-1.2- 100:Au/V
9	Commercial 1st	Dock View North - Bond Room & Bonded Cage	C9	D-5-80/V
10	Commercial 1st	Dock View North	C10	D-5-80/V
11	Commercial 1st	Dock View South - Bay Doors	C11	D-2.3-100/V
12	Commercial 1st	Dock View South - Bay Doors	C12	D-1.2-80/VW5
13	Commercial 1st	Dock View South - Bay Doors	C13	D-2.3-100/V
14	Commercial 2nd	Arming Room Hallway	C14	D-2.3- 100:Co/V
15	Commercial 2nd	Arming Room - Room 217	C15	D-1.2-100/V
16	Commercial 1st	Cashier Room - Room 111	C16	D-1.2-100/V
17	Commercial 1st	Employee Hallway to washrooms, second floor, elevator and main office area.	C17	D-2.3- 100:Co/V
18	Commercial 1st	Main Office Area View 1	C18	D-1.2-100/V
19	Commercial 1st	Main Office Area View 2	C19	D-5-80/V
20	Commercial 1st	Main Office Area View 3	C20	D-1.2-100/V
21	Commercial 1st	Public Foyer	C21	D-2.3-100/V
22	Commercial 1st	Public Access from Secondary Yard	C22	D-1.2- 80/VEW5
23	Commercial 1st	Dock Entrance from Secondary Yard	C23	D-1.2-80/VW5
24	Commercial 1st	Enforcement Room - Room 145	C24	D-1.2-100/V
25	Commercial 1st	Bond Room - Room 149	C25	D-1.2-100/V
26	Commercial 1st	Cage Area on Dock - Room 151	C26	D-5-80/V
27	Commercial 2nd	Hallway second floor outside of Chief's office and employee washrooms/lockerrooms.	C27	D-2.3- 100:Co/V
28	Commercial 2nd	Hallway second floor outside of lunchroom and training room.	C28	D-1.2-100/V
29	Commercial 2nd	External Truck Bay Views	C29	D-2.3-100/VE
30	Commercial 2nd	External Truck Bay Views	C30	D-2.3-100/VE
31	Commercial 2nd	External Truck Bay Views	C31	D-2.3-100/VE
32	Commercial 1st	Public small vehicle parking, access gate and Return to USA	C32	D-5-80/VEW1

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33	Commercial 1rst	Truck PIL 1	C33	D-1.2- 80/VEW5
34	Commercial 1rst	Truck PIL 2	C34	D-1.2- 80/VEW5
35	Commercial 1rst	Truck PIL 3	C35	D-1.2- 80/VEW5
36	Commercial 1rst	Truck PIL 4	C36	D-1.2- 80/VEW5
37	Commercial 1rst	Truck PIL 5	C37	D-1.2- 80/VEW5
38	Commercial 1rst	Secondary Yard Parking	C38	D-2.3-100/VE
39	Commercial 1rst	Secondary Yard View of Truck Bays and truck exiting.	C39	D-1.2- 80/VEW5
40	Commercial 1rst	Located in VACIS area for exiting trucks and secondary yard.	C40	D-2.3-100/VE
41	Commercial 1rst	Located in VACIS area for secondary yard and fumigation area.	C41	D-2.3-100/VE
42	Commercial 1rst	Located in VACIS area for VACIS inspections.	C42	D-2.3-100/VE
43	Commercial 1rst	Located on the roof top for post PIL viewing	C43	D-2.3-100/VE
44	PBT Main 1rst floor	Bond Room - Room 4050	T1	D-1.2-100/V
45	PBT Main 1rst floor	Bus Terminal Exit	T2	D-1.2-100/V
46	PBT Main 1rst floor	Bus Terminal PIL - Barrier Free Counter	T3	D-1.2-100/V
47	PBT Main 1rst floor	Traffic Superintend Office Northside - Room 4010	T4	D-1.2-100/V
48	PBT Main 2nd Floor	Chief's Corridor - Area 4115A	T5	D-2.3- 100:Co/V
49	PBT Main 1rst floor	Corridor between POE & Bus Terminal	T6	D-1.2- 100:Co/V
50	PBT Main 1rst floor	Bus Passenger Que Area	T7	D-1.2-100/V
51	PBT Main 1rst floor	DEU (Drug Enforcement Unit) Office - Room 4043	T8	D-1.2-100/V
52	PBT Garage	Compound Yard	T9	Z-1-60-x30/E
53	PBT Main 2nd Floor	District Director Corridor	T10	D-1.2-100/V
54	PBT Main 1rst floor	Document Room (Room 4013)	T11	D-1.2-100/V
55	PBT Main 1rst floor	Document Room - Room 4014	T12	D-1.2-100/V
56	PBT Main 1rst floor	Drug Loo - Room 4060	T13	D-1.2-100/V
57	PBT Main 1rst floor	Bus Terminal Interview Room - Room 4043	T14	D-1.2- 100:Au/V
58	PBT Main 1rst floor	Bus Terminal Door	T15	D-5-80/V
59	PBT Main 1rst floor	Enforcement Corridor E	T16	D-1.2-100:Co/V
60	PBT Main 1rst floor	Enforcement Corridor W	T17	D-1.2-100:Co/V
61	PBT Main 1rst floor	Fingerprint Room – Room 4041	T18	D-1.2-100/V
62	PBT Main 2 <sup>nd</sup> floor	Firearm Room Corridor	T19	D-1.2-100/V
63	PBT Main 2 <sup>nd</sup> floor	Firearm Room	T20	D-1.2-100/V
64	PBT Garage	Electronic Vehicle Gate North	T21	D-1.2-80/VEW5
65	PBT Garage	Garage Inside	T22	D-1.2-100/V
66	PBT Main 1rst floor	Immigration Interview Room – Room 4039	T23	D-1.2-100:Au/V
67	PBT Main 1rst floor	Immigration Interview Room – 4040	T24	D-1.2-100:Au/V

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68	PBT Main 1st floor	Bus Terminal Cash and Xray Area	T25	D-5-8/V
69	PBT Main 1st floor	Public Entry to Permit Office Vestibule from Secondary – R4002	T26	D-1.2-80/VW5
70	PBT Main 1st floor	Superintendent Office Mail Room – Room 4011	T27	D-1.2-100/V
71	PBT Main 2 <sup>nd</sup> floor	IT Room Corridor	T28	D-2.3-100:Co/V
72	PBT NS PIL	North PIL Exit	T29	D-1.2-80/VEW5
73	PBT Main 1st floor	North PIL Pre Exit	T30	D-1.2-80/VEW5
74	PBT Main 1st floor	Permit Office	T31	D-1.2-100/V
75	PBT Main 1st floor	Permit Office Counter – North Side – Area 4022	T32	D-1.2-100/V
76	PBT Main 1st floor	Permit Office Counter – North Side – Area 4022	T33	D-1.2-100/V
77	PBT Main 1st floor	Permit Office Counter – North Side – Area 4022	T34	D-1.2-100/V
78	PBT Main 1st floor	Permit Office Counter – North Side – Area 4022	T35	D-1.2-100/V
79	PBT Main 1st floor	Permit Office Counter – North Side – Area 4022	T36	D-1.2-100/V
80	PBT Main 1st floor	Permit Office Counter – East Side	T37	D-1.2-100/V
81	PBT Main 1st floor	Permit Office Counter – East Side	T38	D-1.2-100/V
82	PBT Main 1st floor	Permit Office Counter – South Side – Area 4022B	T39	D-1.2-100/V
83	PBT Main 1st floor	Permit Office Counter – South Side – Area 4022B	T40	D-1.2-100/V
84	PBT Main 1st floor	Permit Office Counter – South Side	T41	D-1.2-100/V
85	PBT Main 1st floor	Permit Office Counter – South Side	T42	D-1.2-100/V
86	PBT Main 1st floor	Permit Office Counter – East Side	T43	D-1.2-100/V
87	PBT 2 <sup>nd</sup> floor	Pre PIL North	T44	Z-1-60-x30/E
88	PBT 2 <sup>nd</sup> floor	Pre PIL South	T45	Z-1-60-x30/E
89	PBT RPU	RPU Detention Room – Room 3036	T46	C-1.5-120:11/V
90	PBT EMP Lot Walkway	Employee Door Way	T47	D-1.2-100:Co/V
91	PBT EMP Lot Walkway	Employee Door Way	T48	D-1.2-100:Co/V
92	PBT Garage	Electronic Vehicle Gate South	T49	D-1.2-80/VEW5
93	PBT EMP Lot Walkway	RPU Exterior South East	T50	Z-1-60-x30/E
94	PBT Main 1st floor	Bus Terminal Exit/Entrance to Secondary facing door 4034	T51	D-1.2-100/V
95	PBT RPU	RPU Fingerprint Room – Room 3011	T52	D-1.2-100/V
96	PBT RPU	RPU Counter	T53	D-1.2-100/V
97	PBT RPU	RPU Main Corridor East	T54	D-2.3-100:Co/V
98	PBT RPU	RPU Main Corridor West	T55	D-2.3-100:Co/V
99	PBT RPU	RPU Waiting Room	T56	D-1.2-100/V
100	PBT RPU	RPU Waiting Room	T57	D-1.2-100/V
101	PBT Main 1st floor	Secondary Bus Gate	T58	D-2.3-100/VEW5



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102	PBT SEC	Post PIL North From Canopy	T59	Z-1-60-x30/E
103	PBT Main 1st floor	Secondary North	T60	Z-1-60-x30/E
104	PBT SEC	Secondary 9	T61	D-1.2-80/VEW5
105	PBT SEC	Secondary 10	T62	D-1.2-80/VEW5
106	PBT SEC	Secondary 11	T63	D-1.2-80/VEW5
107	PBT SEC	Secondary 12	T64	D-1.2-80/VEW5
108	PBT SEC	Secondary 13	T65	D-1.2-80/VEW5
109	PBT SEC	Secondary 14	T66	D-1.2-80/VEW5
110	PBT SEC	Secondary 15	T67	D-1.2-80/VEW5
111	PBT SEC	Post PIL South PTZ	T68	Z-1-60-x30/E
112	PBT SEC	Secondary 16	T69	D-1.2-80/VEW5
113	PBT SEC	Secondary 1	T70	D-1.2-80/VEW5
114	PBT SEC	Secondary 2	T71	D-1.2-80/VEW5
115	PBT SEC	Secondary 3	T72	D-1.2-80/VEW5
116	PBT SEC	Secondary 4	T73	D-1.2-80/VEW5
117	PBT SEC	Secondary 5	T74	D-1.2-80/VEW5
118	PBT SEC	Secondary 6	T75	D-1.2-80/VEW5
119	PBT SEC	Secondary 7	T76	D-1.2-80/VEW5
120	PBT SEC	Secondary 8	T77	D-1.2-80/VEW5
121	PBT Main 1st floor	Immigration Corridor outside of secure documentation room	T78	D-1.2-100/V
122	PBT Main 1st floor	Bus Terminal Entrance	T79	D-5-80/V
123	PBT Main 1st floor	Immigration Interview Room Hallway	T80	D-2.3-100:Co/V
124	PBT Main 1st floor	Firearm Room	T81	D-1.2-100/V
125	PBT Main 1st floor	Superintendent Lobby	T82	D-1.2-100/V
126	PBT Main 2 <sup>nd</sup> floor	Training Room Corridor	T83	D-2.3-100:Co/V
127	PBT Main 1st floor	Wet Cell 1 – Room 4018	T84	C-1.5-120:I1/V
128	PBT Main 1st floor	Wet Cell 2 – Room 4017	T85	C-1.5-120:I1/V
129	PBT EMP Lot Walkway	Employee Walkway	T86	D-1.2-80/VEW5

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130	PBT Main1rst floor	Bus Terminal Counter 2	T89	D-1.2-100/V
131	PBT Main1rst floor	Bus Terminal Counter 3	T90	D-1.2-100/V
132	PBT Main1rst floor	Bus Terminal Counter 4	T91	D-1.2-100/V
133	PBT SS PIL	Bus Terminal Luggage Drop Off	T92	D-1.2-80/VEW5
134	PBT NS PIL	PIL 1	T93	D-2.3-100/VEW5
135	PBT Main1rst floor	PIL 2	T94	D-2.3-100/VEW5
136	PBT Main1rst floor	Immigration Interview – Room 4038	T95	D-1.2-100/V
137	PBT NS PIL	PIL 3	T96	D-2.3-100/VEW5
138	PBT NS PIL	PIL 4	T97	D-2.3-100/VEW5
139	PBT NS PIL	PIL 5	T98	D-2.3-100/VEW5
140	PBT Main 1rst floor	Immigration Hallway	T99	D-1.2-100/V
141	PBT NS PIL	PIL 6	T100	D-2.3-100/VEW5
142	PBT NS PIL	PIL 7	T101	D-2.3-100/VEW5
143	PBT Main 1rst floor	Bus Lane South PIL Passenger drop off	T102	D-2.3-100/VEW5
144	PBT NS PIL	PIL 8	T103	D-2.3-100/VEW5
145	PBT SS PIL	PIL 9	T104	D-2.3-100/VEW5
146	PBT SS PIL	PIL 10	T105	D-2.3-100/VEW5
147	PBT Main 1rst floor	Command Center & Egate	T106	D-2.3-100/V
148	PBT SS PIL	PIL 11	T107	d-2.3-100/VE
149	PBT SS PIL	PIL 12	T108	D-2.3-100/VEW5
150	PBT Main 1rst floor	Enforcement Hallway between Bus Terminal and POE	T109	D-1.2-100/V
151	PBT SS PIL	PIL 13	T110	D-2.3-100/VEW5
152	PBT SS PIL	PIL 14	T111	D-2.3-100/VEW5
153	PBT Main 1rst floor	Secondary over Bus terminal Exit/Entrance	T112	D-1.2-80/VEW5
154	PBT SS PIL	PIL 15	T113	D-2.3-100/VEW5
155	PBT RPU	RPU Interview Room – Room 3016	T114	D-1.2-100:Au/V

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156	PBT RPU	RPU Interview Room – Room 3017	T115	D-1.2-100:Au/V
157	PBT RPU	RPU Interview Room – Room 3018	T116	D-1.2-100:Au/V
158	PBT RPU	RPU Interview Room – Room 3019	T117	D-1.2-100:Au/V
159	PBT RPU	RPU Interview Room – Room 3016	T118	D-1.2-100:Au/V
160	PBT RPU	RPU Interview Room - Room 3031	T119	D-1.2- 100:Au/V
161	PBT RPU	RPU Interview Room - Room 3032	T120	D-1.2- 100:Au/V
162	PBT RPU	RPU Interview Room - Room 3035	T121	D-1.2- 100:Au/V
163	PBT Main 1st floor	Dry Cell RPU - Room 4062	T122	C-1.5- 120:l1/V
164	PBT Main 1st floor	Secondary over Exit/Entrance to Enforcement Area	T123	D-1.2- 80/VEW5
165	PBT Main 1st floor	Lobby of Exit/Entrance to Enforcement Area	T124	D-1.2-80/VW5
166	PBT Main 1st floor	Hallway outside Enforcement Area to POE	T125	D-1.2- 100:Co/V
167	PBT Main 1st floor	Hallway to North PIL/Enforcement	T126	D-1.2-80/VW5
168	PBT Main 1st floor	Enforcement Office - Room 4057	T127	D-1.2-100/V
169	PBT Main 1st floor	Bond Room Exterior Hallway	T128	D-1.2-100/V
170	PBT SEC	Secondary Kiosk Inside	T129	D-1.2-80/VW5
171	PBT NS PIL	PIL 1 back of booth	T130	D-1.2- 80/VEW5
172	PBT NS PIL	PIL 2 back of booth	T131	D-1.2- 80/VEW5
173	PBT NS PIL	PIL 3 back of booth	T132	D-1.2- 80/VEW5
174	PBT NS PIL	PIL 4 back of booth	T133	D-1.2- 80/VEW5
175	PBT NS PIL	PIL 5 back of booth	T134	D-1.2- 80/VEW5
176	PBT NS PIL	PIL 6 back of booth	T135	D-1.2- 80/VEW5
177	PBT NS PIL	PIL 7 back of booth	T136	D-1.2- 80/VEW5
178	PBT NS PIL	PIL 8 back of booth	T137	D-1.2- 80/VEW5
179	PBT SS PIL	PIL 9 back of booth	T138	D-1.2- 80/VEW5
180	PBT SS PIL	PIL 10 back of booth	T139	D-1.2- 80/VEW5
181	PBT SS PIL	PIL 11 back of booth	T140	D-1.2- 80/VEW5

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182	PBT SS PIL	PIL 12 back of booth	T141	D-1.2- 80/VEW5
183	PBT SS PIL	PIL 13 back of booth	T142	D-1.2-80/VEW5
184	PBT SS PIL	PIL 14 back of booth	T143	D-1.2-80/VEW5
185	PBT SS PIL	PIL 15 back of booth	T144	D-1.2-80/VEW5
186	PBT RPU	RPU Vestibule	T145	D-1.2-80/VW5
187	PBT RPU	RPU Secure Document/Store Room – Room 3041	T146	D-1.2-100/V
188	PBT RPU	RPU Interview Room	T147	D-1.2-100: Au/V
189	PBT RPU	RPU Back Hallway	T148	D-1.2-100/V
190	PBT RPU	RPU Enforcement Hallway	T149	D-1.2-100/V
191	PBT RPU	RPU Enforcement – Room 3036A	T150	D-1.2-100/V
192	PBT SEC	Secondary Canopy Northside facing PBA Tolls	T151	D-5-80/VEW1
193	PBT SEC	Secondary Canopy Southside facing PBA Tolls	T152	D-5-80/VEW1
194	PBT Main 2 <sup>nd</sup>	Traffic Second Floor Main Corridor	T153	D-2.3-100/V
195	PBT Main 1st floor	Dry Cell Bus Terminal	T154	C-1.5-120:11/V

#### 4.1 Equipment by zone

Zone	Reference #	Equipment count
Commercial 1st	D-1.2- 80/VW5	3
Commercial 1st	D-1.2-100/V	8
Commercial 1st	D-1.2- 80/VEW5	7
Commercial 1st	D-5- 80/VEW1	1
Commercial 1st	D-2.3- 100/VE	5
Commercial 1st	D-2.3-100/V	4
Commercial 1st	D-2.3- 100:Co/V	2
Commercial 1st	C-1.5- 120:11/V	1
Commercial 1st	D-1.2- 100: Au/V	1

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Commercial 1st	D-5-80/V	4
Commercial 2nd	D-2.3- 100:Co/V	2
Commercial 2nd	D-1.2-100/V	2
Commercial 2nd	D-2.3- 100/VE	3
PBT EMP Lot Walkway	D-1.2- 100:Co/V	2
PBT EMP Lot Walkway	Z-1-60- x30/E	1
PBT EMP Lot Walkway	D-1.2- 80/VEW5	1
PBT Garage	D-1.2- 80/VEW5	2
PBT Garage	D-1.2-100/V	1
PBT Garage	Z-1-60- x30/E	1
PBT Main 1st floor	D-1.2-100/V	35
PBT Main 1st floor	D-2.3- 100/VW5	1
PBT Main 1st floor	D-2.3-100/V	1
PBT Main 1st floor	D-1.2- 100:Au/V	3
PBT Main 1st floor	D-5-80/V	3
PBT Main 1st floor	D-1.2- 80/VW5	3
PBT Main 1st floor	D-1.2- 80/VEW5	3
PBT Main 1st floor	D-2.3- 100/VEW5	1
PBT Main 1st floor	D-1.2- 100:Co/V	4
PBT Main 1st floor	Z-1-60- x30/E	1
PBT Main 1st floor	D-2.3- 100:Co/V	1
PBT Main 1st floor	C-1.5- 120:I1/V	4

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PBT Main 2nd Floor	D-1.2-100/V	4
PBT Main 2nd Floor	D-2.3-100/V	1
PBT Main 2nd Floor	Z-1-60-x30/E	2
PBT Main 2nd Floor	D-2.3- 100:Co/V	3
PBT NS PIL	D-1.2- 80/VEW5	9
PBT NS PIL	D-2.3- 100/VEW5	8
PBT RPU	D-1.2- 100:AU/V	9
PBT RPU	D-1.2- 80/VW5	1
PBT RPU	C-1.5- 120:11/V	1
PBT RPU	D-1.2-100/V	8
PBT RPU	D-2.3- 100:Co/V	2
PBT SEC	D-1.2- 80/VW5	1
PBT SEC	D-5- 80/VEW1	2
PBT SEC	Z-1-60-x30/E	2
PBT SEC	D-1.2- 80/VEW5	16
PBT SS PIL	D-2.3- 100/VEW5	6
PBT SS PIL	D-2.3- 100/VE	1
PBT SS PIL	D-1.2- 80/VEW5	8

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## 4.2 Equipment summary

Reference #	Equipment count
D-1.2-80/VW5	8
D-1.2-100/V	58
D-1.2-80/VEW5	46
D-2.3-100/VE	9
D-5-80/VEW1	3
D-2.3-100/V	6
D-2.3-100:Co/V	10
C-1.5-120:l1/V	6
D-1.2-100:Au/V	13
D-5-80/V	7
D-2.3-100/VW5	1
D-1.2-100:Co/V	6
Z-1-60-x30/E	7
D-2.3-100/VEW5	15

## 5. Camera Specifications

The supplied equipment and services must meet or exceed all of the specifications defined below. The supplied equipment is to be new, not used or refurbished and must meet the Mandatory Requirements.

Bidder **must provide** with their proposal technical literature/brochures, operating manuals, and/or other written documentation (such as a description of system components and capabilities) etc. to demonstrate compliance with each area of the criteria stated below.

General Camera Specifications		Reference to bid document (document name, page, and paragraph number)
<i>All stated requirements are mandatory</i>		
Conduit	All exposed cabling must be contained within conduit.	
Cabling	Must meet all applicable fire and building codes. Includes the use of plenum rated cabling where required by code.	
Warranty	All cameras must carry one year (minimum) manufacturer's warranty covering parts and labor. Installing contractor is primary warranty contact for CBSA.	
Testing	All cameras must be thoroughly tested prior to installation.	
Specification sheets	Detailed specification sheets must be provided to contracting authority with bid/proposal, and also provided to end-user upon installation of system.	
Open Architecture	<ul style="list-style-type: none"> <li>Cameras must be IP</li> <li>Cameras must support ONVIF profile S</li> </ul>	
Video	Camera must support the following video settings: <ul style="list-style-type: none"> <li>Multiple compressions formats, including but not limited to H.264 and MJPEG.</li> <li>Camera must be able to output at least two video streams simultaneously and must also support simultaneous streaming of multiple formats.</li> <li>Frame rate must be controllable for each.</li> </ul>	
Power	Camera must be POE or High POE compatible.	
Disabled Audio	All cameras which are audio capable must have audio capability disabled from the camera and video management software (VMS), unless otherwise noted.	
Exposure Settings	<ul style="list-style-type: none"> <li>Must be configurable for different lighting conditions such as shutter speed, and gain.</li> <li>Must allow an automatic compensation of the image level with regard to the lighting conditions variations</li> </ul>	



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<b>Reference: D-1.2-100/V</b> <b>Indoor Camera 1.2 MP Wide Angle, Vandal Resistant</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP52 or better. Only a compliant manufacturer approved enclosure may be considered acceptable.	
<b>Vandal- Proof</b>	These camera must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 95 and 110 degrees.	
<b>Focus</b>	The camera must have a remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 15 frames per second at the minimum Resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have minimum of 1.2 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least a 2X optical zoom.	
<b>Example</b>	Camera such as Axis P3364-V 6mm or equivalent can be used.	

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Reference: Z- 1-60-x30/E Outdoor PTZ Camera 1MP <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP66 or better. The camera assembly must have an operating temperature range between -40 to +40 C. A custom enclosure will not be considered acceptable.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 55 and 65 degrees.	
<b>Focus</b>	The camera must have remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 20 frames per second at the minimum resolution specified above.	
<b>Resolution</b>	Camera must have minimum of 1 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least 30X optical zoom.	
<b>Range of motion</b>	Must have a pan range of 360 degrees endless. Must have a tilt range of at least 180 degrees.	
<b>Preset when idle</b>	The camera PTZ must be able to reset automatically to a preset position when a period of inactivity is detected. A configuration tool for the PTZ must be able to define this period of inactivity in a range from 1 second to 5 minutes.	
<b>Example</b>	Camera such as Axis Q6054-E or equivalent can be used.	

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<b>Reference: D-5-80/V</b> <b>Indoor Camera 5MP, Vandal Resistant</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP52 or better. Only a compliant manufacturer approved enclosure may be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 75 and 85 degrees.	
<b>Focus</b>	The camera must have remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 12 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	Camera must have a minimum of 5 mega pixel (MP) resolution.	
<b>Example</b>	Camera such as Axis P3367-V or equivalent can be used	

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<b>Reference: D-5-80/VEW1</b> <b>Outdoor Camera 5MP, Vandal Resistant, Wide Dynamic Range</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP66 or better. The camera assembly must have an operating temperature range between -40 to +40 C. A custom enclosure will not be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 75 and 85 degrees.	
<b>Focus</b>	The camera must have remote focus	
<b>Frame per Second (FPS)</b>	The camera must support at least 12 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have a minimum of 5 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least 2X optical zoom.	
<b>Wide Dynamique Range</b>	The camera must feature "Wide Dynamic Range"	
<b>Example</b>	Camera such as Axis P3367-V or equivalent can be used	

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<b>Reference: D-1.2-80/VW5</b> <b>Indoor Camera 1.2 MP, Vandal Resistant, Wide Dynamic Range</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP52 or better. Only a compliant manufacturer approved enclosure may be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 75 and 85 degrees.	
<b>Focus</b>	The camera must have remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 15 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have a minimum of 1.2 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least 2X optical zoom.	
<b>Wide Dynamique Range</b>	The camera must feature "Wide Dynamic Range"	
<b>Example</b>	Camera such as Axis P3384-V or equivalent can be used	

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<b>Reference: D-1.2-80/VEW5</b> <b>Outdoor Camera 1.2MP, Wide Dynamic Range</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP66 or better. The camera assembly must have an operating temperature range between -40 to +40 C. A custom enclosure will not be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 75 and 85 degrees.	
<b>Focus</b>	The camera must have remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 15 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have a minimum of a 1.2 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least 2X optical zoom.	
<b>Wide Dynamique Range</b>	The camera must feature at least 120db of "Wide Dynamic Range"	
<b>Example</b>	Camera such as Axis P3384-V or equivalent can be used	

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<b>Reference: 2-1.2-100:Co/V</b> <b>Indoor Camera 1.2 MP Wide Angle, Corridor Format</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP52 or better. Only a compliant manufacturer approved enclosure may be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 95 and 110 degrees.	
<b>Focus</b>	The camera must have remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 15 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have a minimum of 1.2 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least 2X optical zoom.	
<b>Corridor</b>	The camera must support a rotation of 0°, 90°, 180°, and 270°. The camera must be installed and configured to be in corridor mode where the orientation is vertical "portrait".	
<b>Example</b>	Camera such as Axis P3364-V 6mm or equivalent can be used.	

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<b>Reference: D-2.3-100/V</b> <b>Indoor Camera 2.3MP, Vandal Resistant</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP52 or better. Only a compliant manufacturer approved enclosure may be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 95 and 110 degrees.	
<b>Focus</b>	The camera must have remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 15 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have a minimum of 2.3 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least 2X optical zoom.	
<b>Example</b>	Camera such as Axis Q3505-V MK II or equivalent can be used.	



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<b>Reference: D-2.3-100/VE</b> <b>Outdoor Camera 2.3MP, Vandal Resistant</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP66 or better. The camera assembly must have an operating temperature range between -40 to +40 C. A custom enclosure will not be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 95 and 110 degrees.	
<b>Focus</b>	The camera must have remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 15 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have a minimum of 2.3 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least 2X optical zoom.	
<b>Example</b>	Camera such as Axis Q3505-VE Mk II or equivalent can be used.	

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<b>Reference: D-2.3-100/VW5</b> <b>Indoor Camera 2.3MP, Vandal Resistant, Very Wide Dynamic Range</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP52 or better. Only a compliant manufacturer approved enclosure may be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 95 and 110 degrees.	
<b>Focus</b>	The camera must have remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 15 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have a minimum of 2.3 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least 2X optical zoom.	
<b>Wide Dynamique Range</b>	The camera must feature at least 120db of "Wide Dynamic Range".	
<b>Example</b>	Camera such as Axis Q3505-V MK II or equivalent can be used.	

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<b>Reference: D-2.3-100/VEW5</b> <b>Outdoor Camera 2.3MP, Vandal Resistant, Very Wide Dynamic Range</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP66 or better. The camera assembly must have an operating temperature range between -40 to +40 C. A custom enclosure will not be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 95 and 110 degrees.	
<b>Focus</b>	The camera must have remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 15 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have a minimum of 2.3 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least 2X optical zoom.	
<b>Wide Dynamique Range</b>	The camera must feature at least 120db of "Wide Dynamic Range".	
<b>Example</b>	Camera such as Axis Q3505-VE Mk II or equivalent can be used.	

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<b>Reference: D-2.3-100:Co/V</b> <b>Indoor Camera 2.3MP, Vandal Resistant, Corridor Format</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP52 or better. Only a compliant manufacturer approved enclosure may be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 95 and 110 degrees.	
<b>Focus</b>	The camera must have remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 15 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have a minimum of 2.3 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least 2X optical zoom.	
<b>Corridor</b>	The camera must support a rotation of 0°, 90°, 180°, and 270°. The camera must be installed and configured to be in corridor mode where the orientation is vertical "portrait".	
<b>Example</b>	Camera such as Axis Q3505-VE Mk II or equivalent can be used.	

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<b>Reference: D-1.2-100:Au/V</b> <b>Indoor Camera 1.2MP Wide Angle, Vandal Resistant, with audio</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be resistant to tampering. The camera must be contained in Dome housing type and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP52 or better. Only a compliant manufacturer approved enclosure may be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering. Must be rated 1K10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 95 and 110 degrees.	
<b>Focus</b>	The camera must have remote focus.	
<b>Frame per Second (FPS)</b>	The camera must support at least 15 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have a minimum 1.2 mega pixel (MP) resolution.	
<b>Optical zoom</b>	The camera must support at least 2X optical zoom.	
<b>Audio</b>	Camera must have at least one audio input port that uses a standard 3.5mm plug, so that a microphone may be connected to the camera to receive audio.	
<b>Example</b>	Camera such as Axis P3364-V 6mm or equivalent can be used.	

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<b>Reference: C-1.5-120:I1/V</b> <b>Indoor Camera 1.5MP, Corner, Vandal Resistant</b> <i>All stated requirements are mandatory</i>		Reference to bid document (document name, page, and paragraph number)
<b>Enclosure</b>	The camera must be contained in a corner mount housing, having no grip design and securely mounted.	
<b>Environment</b>	The camera assembly must be dustproof and waterproof and must be rated IP52 or better.  Only a compliant manufacturer approved enclosure may be considered acceptable.	
<b>Vandal-Proof</b>	These cameras must be resistant to vandalism and tampering.  Must be rated IK10 or better.	
<b>Field of View</b>	The camera must provide a maximal horizontal field of view between 115 and 125 degrees.	
<b>Frame per Second (FPS)</b>	The camera must support at least 15 frames per second at the minimum resolution specified above.	
<b>Night Capability</b>	The camera must be a true Day/Night camera with a mechanical IR cut filter.	
<b>Resolution</b>	The camera must have a minimum 1.5 mega pixel (MP) resolution.	
<b>Privacy mask</b>	Must support privacy mask	
<b>Infrared Illuminator</b>	The camera must feature integrated IR illumination.	
<b>Example</b>	Camera such as Bosch Flexidome IP Corner 9000MP or equivalent can be used.	

## 6. CCTV System Installation Specifications

### 6.1 General installation setup

Equipment	Set up
All	<ul style="list-style-type: none"> <li>All equipment on the network must have a fixed IP address assigned, unless otherwise indicated.</li> <li>The installer should change all default passwords of installed equipment.</li> <li>The installer must produce a traceability file for the installation settings and submit all the information to the CBSA after completing the installation of the CCTV system. This traceability includes, but is not limited to IP addresses assigned to devices, the passwords of all equipment, etc.</li> <li>Configure the video management server / backup NTP server mode Recording (Network Time Protocol) Central.</li> <li>All equipment such as cameras, server, etc ... other than the video management server / backup recording will be configured NTP client and synchronized to the central NTP server.</li> </ul>
All Camera	<ul style="list-style-type: none"> <li>All camera parameters that are not mentioned must be setup by default</li> <li>Setup the day/night filter to auto</li> <li>Setup the shutter speed to auto</li> <li>Setup the Automatic Gain Control (AGC) to auto</li> <li>Set the focal length at the nominal distance in order to have the appropriate Field of view</li> <li>Adjust the focus of the lens for each camera</li> <li>Setup recording mode as continuous at the frame rate specified on each camera table, except when other recording mode is specified</li> </ul>

### 6.2 Specific installation setup

#	Equipment	Reference #	Set up
1	C1	D-1.2-80/VW5	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
2	C2	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
3	C3	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
4	C4	D-2.3-100/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
5	C5	D-2.3-100:Co/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
6	C6	C-1.5-120:11/V	Height: 2.7m Nominal Focal Length: 2mm The audio must be disabled
7	C7	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
8	C8	D-1.2-100:Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
9	C9	D-5-80/V	Height: 4m Nominal Focal Length: 3mm The audio must be disabled

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10	C10	D-5-80/V	Height: 4m Nominal Focal Length: 3mm The audio must be disabled
11	C11	D-2.3-100/V	Height: 4m Nominal Focal Length: 5mm The audio must be disabled
12	C12	D-1.2-80/VW5	Height: 4m Nominal Focal Length: 5.5mm The audio must be disabled Set WDR on
13	C13	D-2.3-100/V	Height: 4m Nominal Focal Length: 5mm The audio must be disabled
14	C14	D-2.3-100:Co/V	Height: 2.7m Nominal Focal Length: 4mm The audio must be disabled
15	C15	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
16	C16	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
17	C17	D-2.3-100:Co/V	Height: 2.7m Nominal Focal Length: 5mm The audio must be disabled
18	C18	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
19	C19	D-5-80/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
20	C20	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
21	C21	D-2.3-100/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
22	C22	D-1.2-80/VEW5	Height: 3.55m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
23	C23	D-1.2-80/VW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
24	C24	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
25	C25	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
26	C26	D-5-80/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
27	C27	D-2.3-100:Co/V	Height: 2.7m Nominal Focal Length: 5mm The audio must be disabled
28	C28	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
29	C29	D-2.3-100/VE	Height: 8m Nominal Focal Length: 4mm The audio must be disabled
30	C30	D-2.3-100/VE	Height: 8m Nominal Focal Length: 4mm The audio must be disabled



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31	C31	D-2.3-100/VE	Height: 8m Nominal Focal Length: 4mm The audio must be disabled
32	C32	D-5-80/VEW1	Height: 5m Nominal Focal Length: 3.6mm The audio must be disabled Set WDR on
33	C33	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
34	C34	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
35	C35	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
36	C36	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
37	C37	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
38	C38	D-2.3-100/VE	Height: 5m Nominal Focal Length: 3mm The audio must be disabled
39	C39	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 9mm The audio must be disabled Set WDR on
40	C40	D-2.3-100/VE	Height: 6m Nominal Focal Length: 3mm The audio must be disabled
41	C41	D-2.3-100/VE	Height: 7.5m Nominal Focal Length: 3mm The audio must be disabled
42	C42	D-2.3-100/VE	Height: 6m Nominal Focal Length: 3mm The audio must be disabled
43	C43	D-2.3-100/VE	Height: 15m Nominal Focal Length: 9mm The audio must be disabled
44	T1	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
45	T2	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
46	T3	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
47	T4	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
48	T5	D-2.3-100:Co/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
49	T6	D-1.2-100:Co/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled

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50	T7	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
51	T8	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
52	T9	Z-1-60-x30/E	Height: 5m Nominal Focal Length: 18mm The audio must be disabled
53	T10	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
54	T11	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
55	T12	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
56	T13	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
57	T14	D-1.2-100: Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
58	T15	D-5-80/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
59	T16	D-1.2-100: Co/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
60	T17	D-1.2-100: Co/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
61	T18	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
62	T19	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
63	T20	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
64	T21	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 4mm The audio must be disabled Set WDR on
65	T22	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
66	T23	D-1.2-100: Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
67	T24	D-1.2-100: Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
68	T25	D-5-80/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
69	T26	D-1.2-80/VW5	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
70	T27	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
71	T28	D-2.3-100: Co/V	Height: 2.7m Nominal Focal Length: 3.6mm The audio must be disabled

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72	T29	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
73	T30	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
74	T31	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
75	T32	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
76	T33	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
77	T34	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
78	T35	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
79	T36	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
80	T37	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
81	T38	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
82	T39	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
83	T40	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
84	T41	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
85	T42	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
86	T43	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
87	T44	Z-1-60-x30/E	Height: 5m Nominal Focal Length: 6mm The audio must be disabled
88	T45	Z-1-60-x30/E	Height: 5m Nominal Focal Length: 10mm The audio must be disabled
89	T46	C-1.5-120:l1/V	Height: 2.7m Nominal Focal Length: 2mm The audio must be disabled
90	T47	D-1.2-100:Co/V	Height: 2.7m Nominal Focal Length: 5mm The audio must be disabled
91	T48	D-1.2-100:Co/V	Height: 2.7m Nominal Focal Length: 5mm The audio must be disabled
92	T49	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 6mm The audio must be disabled Set WDR on

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93	T50	Z-1-60-x30/E	Height: 5m Nominal Focal Length: 10mm The audio must be disabled
94	T51	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.6mm The audio must be disabled
95	T52	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
96	T53	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
97	T54	D-2.3-100:Co/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
98	T55	D-2.3-100:Co/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
99	T56	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
100	T57	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
101	T58	D-2.3-100/VEW5	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
102	T59	Z-1-60-x30/E	Height: 5m Nominal Focal Length: 8mm The audio must be disabled
103	T60	Z-1-60-x30/E	Height: 3m Nominal Focal Length: 3mm The audio must be disabled
104	T61	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 7mm The audio must be disabled Set WDR on
105	T62	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 7mm The audio must be disabled Set WDR on
106	T63	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 7mm The audio must be disabled Set WDR on
107	T64	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 7mm The audio must be disabled Set WDR on
108	T65	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 7mm The audio must be disabled Set WDR on
109	T 66	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 6mm The audio must be disabled Set WDR on
110	T67	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 3.8mm The audio must be disabled Set WDR on

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111	T68	Z-1-60-x30/E	Height: 5m Nominal Focal Length: 7mm The audio must be disabled
112	T69	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
113	T70	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 7mm The audio must be disabled Set WDR on
114	T71	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 7mm The audio must be disabled
115	T72	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 7mm The audio must be disabled Set WDR on
116	T73	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 6mm The audio must be disabled Set WDR on
117	T74	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 6mm The audio must be disabled Set WDR on
118	T75	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 4.5mm The audio must be disabled Set WDR on
119	T76	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 3.6mm The audio must be disabled Set WDR on
120	T77	D-1.2-80/VEW5	Height: 5m Nominal Focal Length: 4.4mm The audio must be disabled Set WDR on
121	T78	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
122	T79	D-5-80/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
123	T80	D-2.3-100:Co/V	Height: 2.7m Nominal Focal Length: 3.8mm The audio must be disabled
124	T81	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 3.6mm The audio must be disabled
125	T82	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
126	T83	D-2.3-100:Co/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
127	T84	C-1.5-120:I1/V	Height: 2.7m Nominal Focal Length: 2mm The audio must be disabled
128	T85	C-1.5-120:I1/V	Height: 2.7m Nominal Focal Length: 2mm The audio must be disabled

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129	T86	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 4.4mm The audio must be disabled Set WDR on
130	T89	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
131	T90	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
132	T91	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
133	T92	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 5mm The audio must be disabled Set WDR on
134	T93	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
135	T94	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
136	T95	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
137	T96	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
138	T97	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
139	T98	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
140	T99	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
141	T100	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
142	T101	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
143	T102	D-2.3-100/VW5	Height: 3m Nominal Focal Length: 4.4mm The audio must be disabled Set WDR on
144	T103	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on

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145	T104	D-2.3-100/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
146	T105	D-2.3-100/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
147	T106	D-2.3-100/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
148	T107	D-2.3-100/VE	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled
149	T108	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
150	T109	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
151	T110	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
152	T111	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
153	T112	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
154	T113	D-2.3-100/VEW5	Height: 1.5m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
155	T114	D-1.2-100:Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
156	T115	D-1.2-100:Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
157	T116	D-1.2-100:Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
158	T117	D-1.2-100:Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
159	T118	D-1.2-100:Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
160	T119	D-1.2-100:Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
161	T120	D-1.2-100:Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
162	T121	D-1.2-100:Au/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled

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163	T122	C-1.5-120:11/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
164	T123	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
165	T124	D-1.2-80/VW5	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
166	T125	D-1.2-100:Co/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
167	T126	D-1.2-80/VW5	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
168	T127	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
169	T128	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 4mm The audio must be disabled
170	T129	D-1.2-80/VW5	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
171	T130	D-1.2-80/VEW5	Height: 2m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
172	T131	D-1.2-80/VEW5	Height: 2m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
173	T132	D-1.2-80/VEW5	Height: 2m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
174	T133	D-1.2-80/VEW5	Height: 2m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
175	T134	D-1.2-80/VEW5	Height: 2m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
176	T135	D-1.2-80/VEW5	Height: 2m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
177	T136	D-1.2-80/VEW5	Height: 2m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
178	T137	D-1.2-80/VEW5	Height: 2m Nominal Focal Length: 3mm The audio must be disabled Set WDR on



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179	T138	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
180	T139	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
181	T140	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
182	T141	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
183	T142	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
184	T143	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
185	T144	D-1.2-80/VEW5	Height: 3m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
186	T145	D-1.2-80/VW5	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled Set WDR on
187	T146	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
188	T147	D-1.2-100:AU/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be enabled
189	T148	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
190	T149	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
191	T150	D-1.2-100/V	Height: 2.7m Nominal Focal Length: 2.5mm The audio must be disabled
192	T151	D-5-80/VEW1	Height: 5m Nominal Focal Length: 12mm The audio must be disabled Set WDR on
193	T152	D-5-80/VEW1	Height: 5m Nominal Focal Length: 10mm The audio must be disabled Set WDR on
194	T153	D-2.3-100/V	Height: 2.7m Nominal Focal Length: 3mm The audio must be disabled
195	T154	C-1.5-120:11/V	Height: 2.7m Nominal Focal Length: 2mm The audio must be disabled

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## **APPENDIX “B” - Video Management Software (VMS) Specifications**

All stated specifications are mandatory. Intention is to provide an open standard based video management system which can scale up to at least 200 cameras and can support multiple video storage servers. The video management system must also support the export and handling of video suitable for evidence. The word “product” in these specifications means VMS Reference to bid document (document name, page, and paragraph number).

The new VMS must fully integrate with the Regional Office’s central CCTV monitoring system. The current system consists of Genetec security center (Enterprise license). This system is federated to include the existing CBSA CCTV systems at several ports of entry.

### **Software Specifications**

The software used to control and manage the cameras must offer a client-server model. The server application is in a remote location and provides camera control (live viewing, PTZ controls) and video archiving functions. The client application connects to the server to access: live video from cameras, and archived videos. The individual specifications for the server and client applications are outlined below.

#### **Open standards**

- The product must support “Open Standards” architecture to interoperate with a variety of cameras, encoders, and IT infrastructure.
- The product must be “ONVIF profile S” compliant.
- The product must have a Software Development Kit (SDK) available.
- The product must support commercial off the shelf (COTS) client workstations, servers, and customer selected archiving system.
- The product must be compatible with open architecture industry leading camera manufacturers including but not limited to: Sony, Axis, Panasonic and Bosch.
- All camera connected to the VMS must be approved and certified by the manufacturer.
- The product must be able to support an application programming interface (API) for integration of third party software such as video analytics or license plate recognition.

#### **Scalability / future expansion**

- The product must be upgradeable without migration to another platform.
- The server application must be scalable, i.e. the same application must be able to support up to 200 cameras, without additional application upgrades or purchases.
- VMS grouping:
  - The product must be able to join multiple independent systems together in order to view videos from sources connected to these multiple independent systems.
  - The viewing procedure of the remote cameras must be transparent to the user.

#### **Architecture**

- The product must be able to group cameras in logical group. It must be possible to select one or more groups within the programmed hierarchy and go directly to that camera group’s views.
- It must be possible to use a traditional CCTV keyboard and connect it to the control center PC to allow full virtual matrix control without the need for PC keyboard and mouse control.
- The server and client application must be Microsoft Windows compatible.
- The product must support multicast and unicast transmission.
- The product must support multiple streams from the same camera at different resolution.
- The product must provide redundancy features to ensure access to all live data at all times and to ensure recording of all cameras in the event of server failure.

#### **PTZ Controls**

- Pan-tilt-zoom function must be supported by traditional CCTV keyboard such that the PC keyboard and mouse are not required / mandatory for normal pan-tilt-zoom.
- Variable speed and direction pan-tilt-zoom control must be available using the PC mouse by dragging a directional pointer around the video pane. This includes zoom in, zoom out, focus near, focus far and multiple speed pan and tilt operations.

#### **Video Archiving and Retrieval**

- The product must support management, distribution and storage of video surveillance data in a centralized and distributed network environment.
- The product must support multiple recording modes and formats:
  - Always recording, on motion recording, pre and post motion recording, and scheduled recording. These modes must be available for all compatible cameras.
  - The product must support video recording in multiple standard compression formats including but not limited to H.264, configured at the camera level.
- The product must be able to record audio that is synchronized with the video.
- The product supports internal and external storage devices, including but not limited to servers, NAS / SAN solutions.
- The product must provide advanced search functions, including but not limited to time-line search, event search, and motion search.
- The product must provide different levels of application access control at individual and user group levels.

#### **Reliability**

- The product must provide a high level of availability for the recording function with failover features to ensure recording of all cameras at all times on the failover server without loss of data.
- The product must provide a high level of availability for the viewing function with failover features to ensure access to all live data at all times through the failover server without service interruption.

#### **Configuration function or tool**

- The camera settings including frame rate, resolution and compression must be configurable by the VMS.
- The camera settings including motion detection must be configurable by the VMS.
- The VMS configuration function must be inaccessible for specific user or group without permissions.
- The VMS must provide a hardware discovery tool.

#### **Alarms, Events, Logging, and Management**

- There must be an interface to define "Events" including but not limited to built-in motion detection, third party events, third party video analytics, time of day etc.
- Events must trigger associated alarms.
- The product provides user options to log text descriptions of Event Triggers, Actions, and Alarms.
- Alarms must be associated with user defined actions.
- The VMS must have log management that includes the following:
  - The VMS must log user actions
  - The VMS must log who did the action and when
  - The VMS must log User logon/logoff action
  - The VMS must log camera setting modification
  - The VMS must log PTZ move
  - The VMS must log video export
  - The VMS must log alarms
  - The VMS must log disk above a threshold
  - The VMS must log camera not working
  - The VMS must have a user interface to display and search the log

#### **Client Workstation (Application) Specifications**

### **Live Viewer**

- The live viewer client application must display live video from cameras connected to the server located in a remote location.
- The live viewer must have these features:
  - Support two languages: English and French.
  - Provide help options to locate a function or feature.
  - Must have the capability of displaying live video at 30 FPS and have an adjustable frame rate.
  - Display live video at different resolutions.
  - Provides configurable live audio functions, including but not limited to audio ON/OFF, audio synchronized with video and adjustable audio volume.
  - The operator must have the ability to choose playback layouts including 2x2, 4x4 and various customs layouts.
  - The VMS must be able to add bookmark with notes in order to tag live events.
  - Must be able to show different views on multiple monitors (up to 3)

### **Archive Retrieval**

- The product must provide multiple playback functions, including but not limited to play, pause, fast forward, rewind, and variable play speed functions.
- The product must provide synchronized playback from multiple cameras.
- The archive player must have multiple layouts to playback videos from multiple cameras e.g. It must be possible to play 2, 4, or 16 videos synchronously.
- Live viewer software must have synchronous playback mode.
- It must be possible to disable audio during playback.
- The product must be able to export video in a non-proprietary format (such as AVI or ASF) readable on computers without the need to install additional software /codecs.
- The VMS must be able to export video in an original format with watermarking and timestamp.
- The VMS must also be able to export multiple video at the same time.

### **User (Client) Management**

The product must provide the following user authentication features:

- Must have User ID and Password protection for each client connection to the server application.
- Must be able to have automatic password expiry function.
- Must be able to have encryption of stored Passwords.
- Must have multiple administrator and user levels.
- Must be able to define hierarchy and inheritance mechanisms.
- There must be a capability to control who has access to the software and camera features. These specifications relate to:
  - The proposed solution must support role-based access control (RBAC) or group-based access control (GBAC) where privileged users can define roles or groups and can assign users to roles or groups.
  - The proposed solution must allow the assignment of granular permissions to users, groups or roles. The granularity of these permissions must include but is not limited to:
    - Archive viewing access to specific cameras
    - Live viewing access to specific cameras
    - Access to the camera configuration
    - Access to server configuration
    - Export of images
  - The proposed solution must be capable of enabling/disabling recording and listening of audio.

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- 
- External vendors must have no access to any of the infrastructure or components implemented unless explicitly authorized by the CBSA technology authority.

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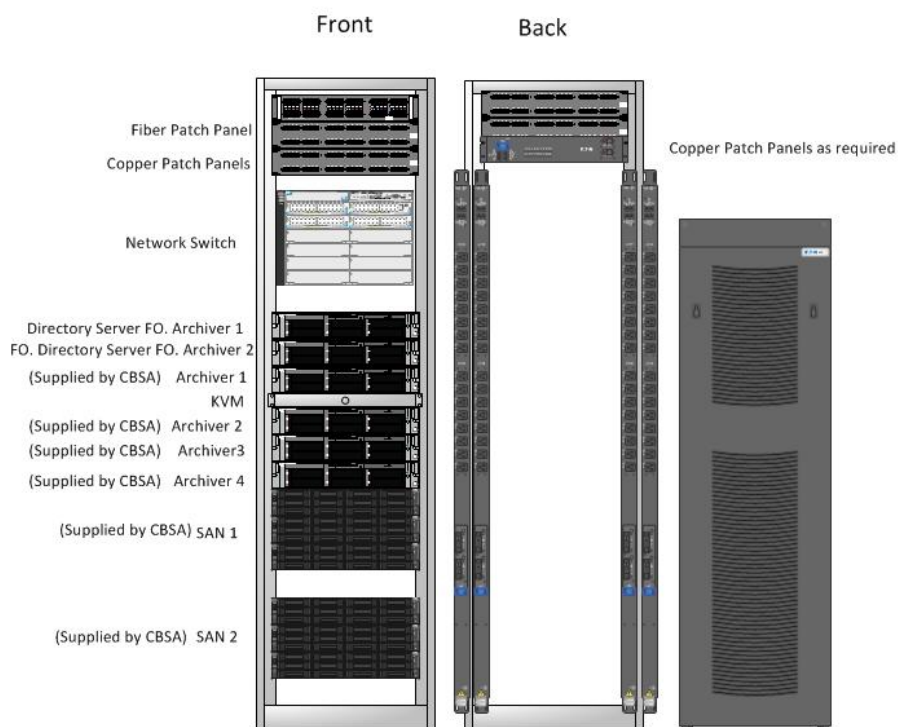
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## APPENDIX "C" – Rack Layout (4-post)

### 4 Post Rack Proposed Details

Standard 4 post rack  
C/W vertical cable managers



#### Notes:

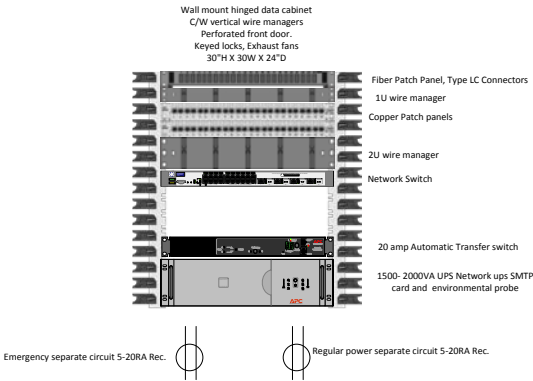
- 1 All equipment, cabling and connection by contractor unless specifically identified.
- 2 KVM supplied by CBSA, KVM Cables and patch cords by contractor
- 3 Provide 15 KVA Free standing UPS, 3 high with 64 batteries, SNMP card, environmental monitor (EX. Eaton 9355 or approved equal).
- 4 Provide UPS RPM module and PDU's to suit equipment configurations and loads

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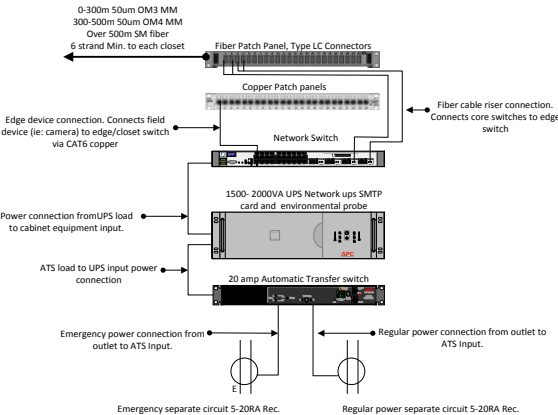
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CBSA  
Typical Edge Wall Mount Cabinet



Cabinet - RF Mote RFM3036-WM-20 C/W Perforated lockable front door, Rear hinge lock and padlock lockable, vertical cable managers, two (2) top fans and 6" cabinet extender.  
UPS - Powerware PW9130L-1500R-XL C/W environmental probe and WEB/SNMP card  
Network Switch- HP2920-24G-POE+ (19727A) SFP - Four (4) LC-LX J4859C (1Gig up to 10KM)  
180/360 camera exterior AXIS M3027PVE  
Fixed camera for cabinet -AXIS P3364V 6mm  
Fiber - Single mode Corning, Belden or approved equal C/W matching patch cords  
Copper - Cat6 Belden  
Automatic transfer switch - APC AP7750A

Typical Edge/Closet Connection  
Detail





## APPENDIX "D" - UPS (Uninterrupted Power Supply) & PDU (Power Distribution Unit) and Network Switch requirements

### UPS (Uninterrupted Power Supply) & PDU (Power Distribution Unit) requirement

*All stated requirements are mandatory*

<b>Main / Large UPS</b>	<p><b>UPS (Eaton 9355 or equivalent class of UPS)</b></p> <p>10 KVA - Floor standing 120 / 208v - 3 phase 4 wire – True Online Dual Conversion 3 high with 64 batteries Direct wire, Internal bypass switch, SNMP card, environmental monitor <b>Rack Power Module</b> – see Appendix "G" Inputs – Direct wire Outputs – Direct wire to remote power module (RPM) as shown in Appendix "C" and "G".</p> <p><b>PDU</b> Metered Monitored 4 – to suit equipment requirements</p> <p>Simple Network Management Protocol SNMP manageable Backlight LCD tilt interface for full viewing in low-light and or small security communications rooms</p> <p>ABM technology to increase battery life by 50 percent. Utilizing ABMs three-stage charging technique. ABM Technology with three-stage charging technique is available in various UPS brands - must be a feature of UPS</p> <p>RPO – Remote Power Off ROO – Remote On/Off Network card for remote and network management Output alarm DB-9 for common alarm</p>
<b>Small UPS</b>	<p>VA/Watts rating – 1500/1350 Inputs – (1) x 5-15P Outputs – (6) x 5-15R Optional communications card for future SNMP management</p>
<b>Modular Enterprise Level Switches</b>	<p><b>Connectivity</b></p> <p><b>IPv6:</b></p> <ul style="list-style-type: none"> <li>• IPv6 host: enables switches to be managed and deployed at the IPv6 network's edge;</li> <li>• Dual stack (IPv4/IPv6): transitions from IPv4 to IPv6, supporting connectivity for both protocols;</li> <li>• MLD snooping: forwards IPv6 multicast traffic to the appropriate interface</li> <li>• IPv6 ACL/QoS: supports ACL and QoS for IPv6 network traffic, preventing traffic flooding;</li> <li>• IPv6 routing: supports static and OSPFv3.</li> </ul> <p><b>Institute of Electrical and Electronics Engineers (IEEE) 802.3af Power over</b></p>

	<p><b>Ethernet (PoE):</b> Provides up to 15.4 Watts (W) per port to IEEE 802.3af-compliant PoE-powered devices such as Internet Protocol (IP) Phones, wireless access points, and security cameras</p> <p><b>IEEE 802.3at Power Over Ethernet Plus:</b> Provides up to 30 W per port to IEEE 802.3 for PoE-/PoE+-powered devices such as video IP Phones, IEEE 802.11n wireless access points, and advanced pan and tilt and zoom (PTZ) security cameras prestandard PoE support: detects and provides power to prestandard PoE devices</p> <p><b>Management</b></p> <p><b>Remote Intelligent Mirroring:</b> Mirrors selected ingress and egress traffic based on Access Control Lists (ACL), port, media access control (MAC) address, or virtual local area network (VLAN) to a local or remote switch anywhere on the network.</p> <p><b>Remote Network Monitoring (RMON), Extended Remote Network Monitoring (XRMON), and Sampled Flow (sFlow) v5:</b> Provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events.</p> <p><b>IEEE 802.1AB Link Layer Discovery Protocol (LLDP):</b> Automated device discovery protocol provides mapping by network management applications.</p> <p><b>Uni-Directional Link Detection (UDLD):</b> Monitors cable between two switches and shuts down the ports on both ends if the cable is broken turning the bi-directional link into uni-directional.</p>
Security	<p><b>Access control lists (ACLs):</b> Provide filtering based on the IP field, source and destination IP address and subnet, and source and destination transmission control protocol/user datagram protocol TCP/UDP port number on a per-VLAN or per-port basis.</p> <p><b>Multiple user authentication methods must:</b> IEEE 802.1X users per port: provides authentication of multiple IEEE 802.1X users per port; prevents user "piggybacking" on another user's IEEE 802.1X authentication.</p> <p>Web-based authentication: authenticates from Web browser for clients that do not support IEEE 802.1X supplicant; customized remediation can be processed on an external Web server</p> <p><b>MAC-based authentication:</b> Client is authenticated with the RADIUS server based on Client's MAC address. Concurrent IEEE 802.1X, Web, and MAC authentication schemes per port: switch port will accept up to 32 sessions of IEEE 802.1X, Web, and MAC authentications.</p> <p><b>Virus throttling:</b></p>

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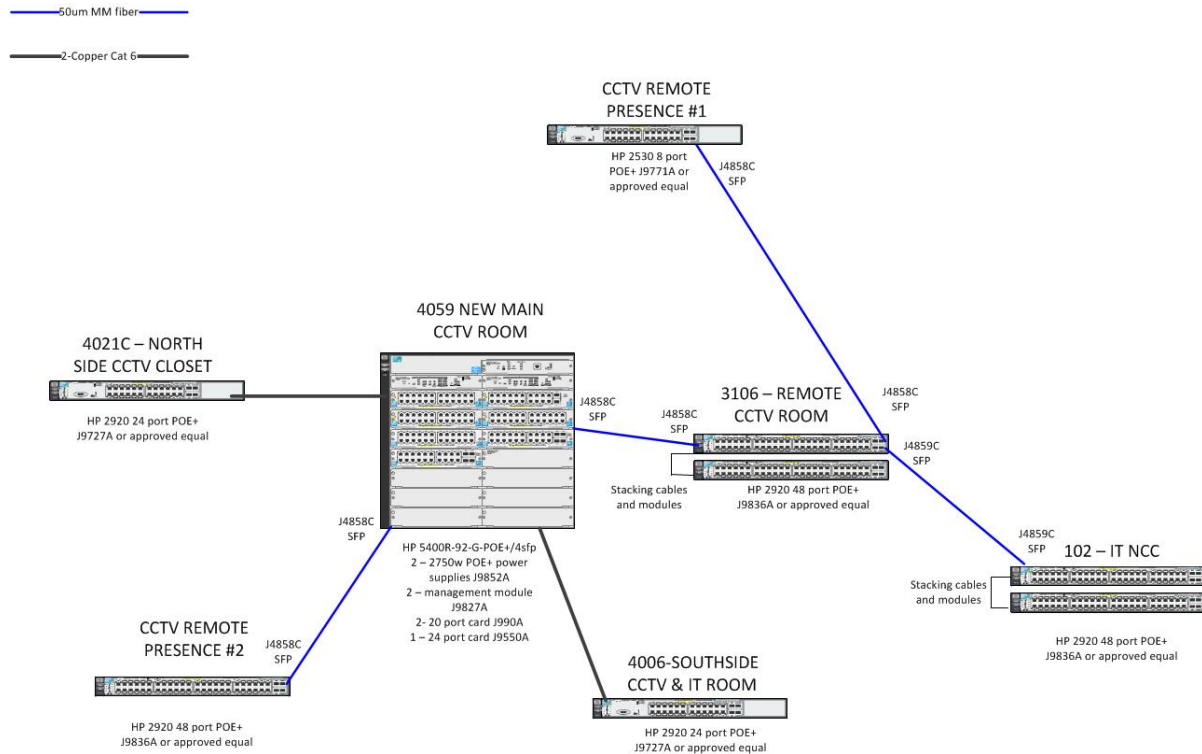
	<p>Detects traffic patterns typical of WORM-type viruses and either throttles or entirely prevents the virus from spreading across the routed VLANs or bridged interfaces, without requiring external appliances</p> <p><b>Dynamic Host Configuration Protocol (DHCP) protection:</b> Blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks.</p> <p><b>Secure management access:</b> Securely encrypts all access methods (CLI and GUI and MIB) through SSHv2 and SSL and SNMPv3.</p>
<b>Minimum switch requirements</b>	<p>Dimensions – 19 inch rack mountable industry standard switches for installation into the existing CBSA racking.</p> <p><b>Main Core Switch – (HP5400R or equivalent class of enterprise level switch)</b> single enterprise chassis system with built-in redundancy C/W 2 – 2750 watt power supplies 132 – 10/100/1000 POE\POE+ RJ45 ports (132 minimum ports) 24 - 10/100/1000 RJ45 ports (24 minimum ports) 10 – SFP Ports 1GbE (10 minimum ports) 2 - Management Modules Advanced layer 3 software IPV4/IPV6 1 – Full Layer 3 Software upgrade. 10 – 1GbE SFP modules(refer to Appendix “E”)</p> <p><b>24/48 Port Secondary Switches (HP 2920 or equivalent class of switch)</b> Refer to Appendix “E” for room / closet locations and port requirements</p>

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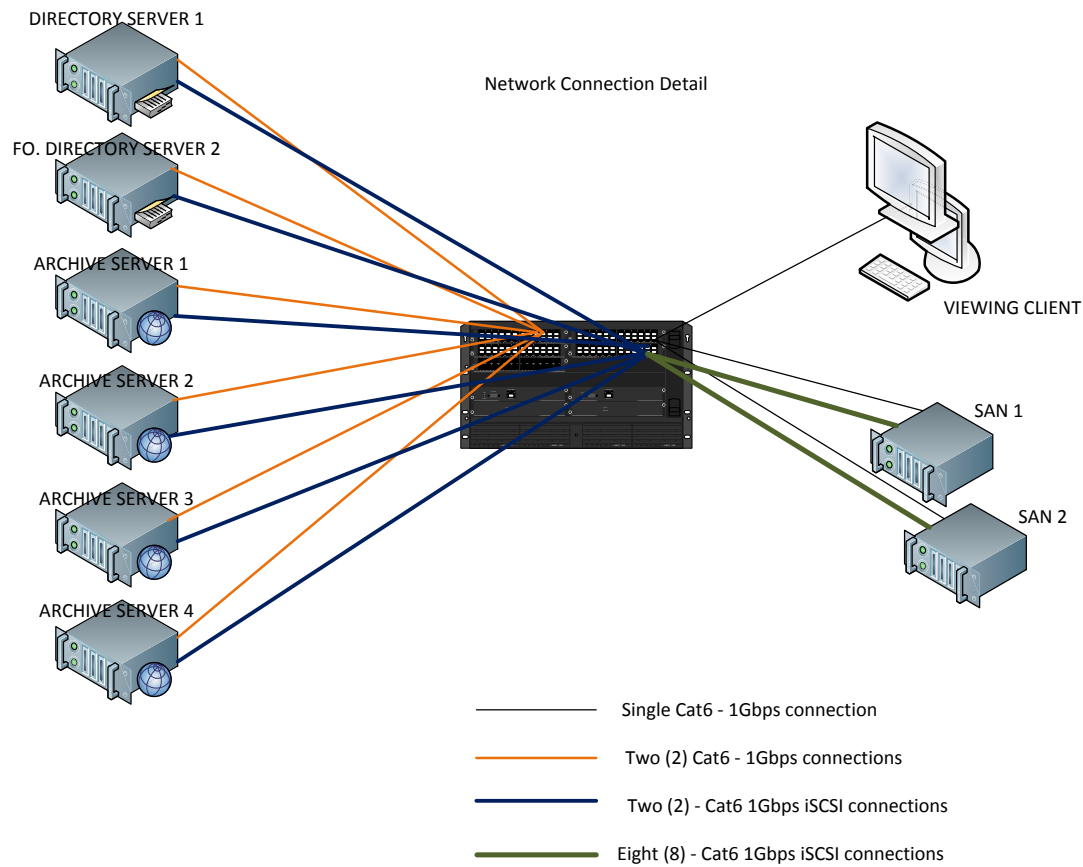
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## APPENDIX "E" – Network Logical Diagram-Peace Bridge Campus



## APPENDIX "E" – Network Logical Diagram-Peace Bridge Campus (cont'd)



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## APPENDIX "F" – IP Scheme

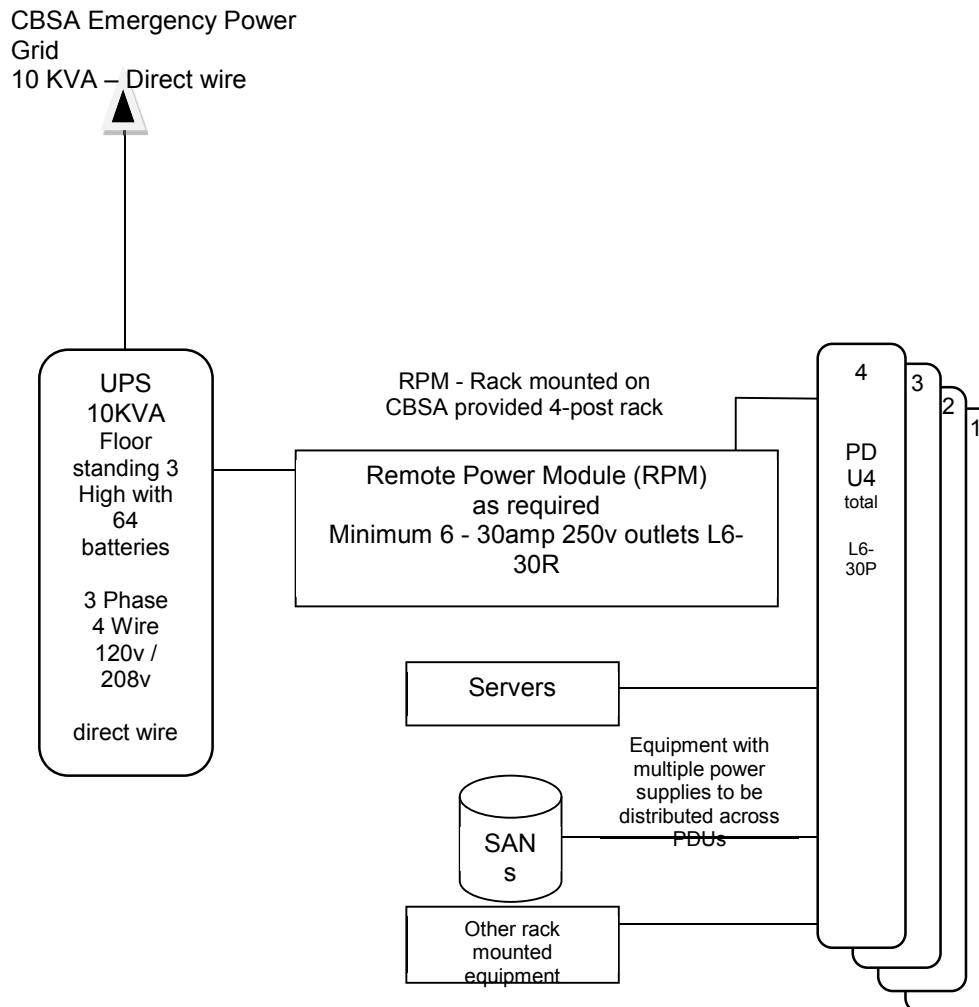
CCTV System - Camera Addressing					CCTV System - Server Addressing						
VLAN XX: x.x.x.x/24					VLAN XX: x.x.x.x/24						
Device	MAC Address	Closet	Switch	Port	IP Address	Device	MAC Address	Closet	Switch	Port	IP Address
Default Router					x.x.x.1	Default Router					x.x.x.1
Reserved					x.x.x.2	Reserved					x.x.x.2
Reserved					x.x.x.3	Reserved					x.x.x.3
Reserved					x.x.x.4	Reserved					x.x.x.4
Reserved					x.x.x.5	Reserved					x.x.x.5

Security System - Client Workstations					Access Control System						
VLAN XX: x.x.x.x/24					VLAN XX: x.x.x.x/24						
Device	MAC Address	Closet	Switch	Port	IP Address	Device	MAC Address	Closet	Switch	Port	IP Address
Default Router					x.x.x.1	Default Router					x.x.x.1
Reserved					x.x.x.2	Reserved					x.x.x.2
Reserved					x.x.x.3	Reserved					x.x.x.3
Reserved					x.x.x.4	Reserved					x.x.x.4
Reserved					x.x.x.5	Reserved					x.x.x.5

ISCSI					
VLAN XX: x.x.x.x					
Device	MAC Address	Closet	Switch	Port	IP Address
Default Router					x.x.x.1
Reserved					x.x.x.2
Reserved					x.x.x.3
Reserved					x.x.x.4
Reserved					x.x.x.5

Security Network					
Management Addressing					
VLAN 83: x.x.x.x/24					
Device	MAC Address	Closet	Switch	Port	IP Address
Default Router					x.x.x.1
Reserved					x.x.x.2
Reserved					x.x.x.3
Reserved					x.x.x.4
Reserved					x.x.x.5

## APPENDIX "G" – Power Scheme



## **APPENDIX “H” – PC Viewing Stations (PCVS)**

All monitors described below:

- Must be of “Commercial Grade”.
- Must have “thin bezels”.

### **Peace Bridge Traffic Operations**

#### **#1 Command Center**

- Equipment: 2 x 50” Horizontal Monitors
- Justification: For the supervision and oversight of all operational functions and areas in the operation.

#### **#2- Superintendents Office (location TBD)**

- Equipment: 2 x 42” Horizontal Monitors
- Justification: For the supervision and oversight of all operational functions and areas in the operation.

#### **#3 Enforcement Area (Rm 4010- Current Supt office- being converted to Enforcement Area)**

- Equipment: 1 x 50” Horizontal Monitor
- Justification: For safety and security of officers and clients involving all areas of the secondary function- cells, interview rooms

#### **#4 Bus (above Bus PIL)**

- Equipment: 1 x 32” Monitor
- Justification: View of the Bus Queuing area for officers assigned to Bus PIL

#### **#5 Immigration Counter (above Immigration Monitors)**

- Equipment: 1 x 32” Monitor
- Justification: For safety and security of officers and clients involving all areas in Immigration - cells, interview rooms

#### **#6 Chief’s Office (Rm 4115)**

- Equipment: 1 x 46” Horizontal Monitor
- Justification: For the oversight of all operational functions and areas.

#### **#7 RPU Superintendent’s Office (Rm 3014)**

- Equipment: 1 x 42” Horizontal Monitor
- Justification: For oversight of the RPU operation / building



## **Peace Bridge Commercial Operations**

### **#1 Counter Area – Primary Processing (Room 101)**

- Equipment: 4 x 36" Horizontal Monitors, mounted overhead at the counter area
- Justification: When working with minimal staffing levels (night shifts and weekends), all staff on duty work from this area. Having the ability to maintain surveillance in the secondary yard, cell, interview room, dock, bays, PIL, truck volumes, and arming room is essential for the officer and client safety. Larger monitors are required due to the distance from the various workstations as well as the proposed Superintendent command centre.

### **#2 Superintendents' Office (Room 131)**

- Equipment: 2 x 50" Horizontal Monitors, mounted on wall
- Justification: For the supervision and oversight of all operational functions and areas and the safety of infrastructure, clients and employees.

### **#3 Secondary Examination – Officer Working Area (Room 135)**

- Equipment: 3 x 50" Horizontal Monitor, mounted on wall
- Justification: For the safety and security of officers and client involving all aspects of the secondary function, including PIL, yard, bays, dock, cell and interview room.

### **#4 Chief's Office – 2<sup>nd</sup> floor (Room 205)**

- Equipment: 1 x 46" Monitor, mounted on wall
- Justification: For the oversight of all operational functions and areas and the safety of infrastructure, clients and employees.

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## ANNEX "B" - BASIS OF PAYMENT

### **CLOSED CIRCUIT TELEVISION SYSTEM (CCTV) EQUIPMENT FOR PEACE BRIDGE CAMPUS IN FORT ERIE, ONTARIO**

All prices must be firm in Canadian dollars, Delivered Duty Paid to the Peace Bridge Campus 2 Peace Bridge Plaza, Fort Erie, Ontario L2A 0A7 (Traffic Building) and 10 Queen Street, Fort Erie, Ontario L2A 5N7 (Commercial Building), Goods and Services Tax or the Harmonized Sales Tax extra, transportation costs to destination and all applicable Custom Duties and Excise Taxes included.

#### **PART 1 – CONTRACTOR PROPOSED SOLUTION**

##### **1. DESIGN OF THE SYSTEM**

Firm Lot Price for the design

**DESIGN - FIRM LOT PRICE \$ \_\_\_\_\_**

##### **2. DELIVERY OF EQUIPMENT**

Firm Lot Price for all related equipment, excluding spare parts.

**EQUIPMENT - FIRM LOT PRICE \$ \_\_\_\_\_**

##### **2.1 ADDITIONAL CONDUIT WORK**

Bidders are requested to provide a cost per foot basis for additional conduit work.

**COST PER FOOT \$ \_\_\_\_\_**

##### **3. INSTALLATION AND ASSOCIATED TRAVEL**

3.1 The price must include all costs including travel and living expenses, related to the installation

**INSTALLATION - FIRM LOT PRICE \$ \_\_\_\_\_**

**TRAVEL COST - FIRM LOT PRICE \$ \_\_\_\_\_**

**Breakdown of Travel costs are as follows:**

Site	FIRM LOT PRICE BREAKDOWN	
<b>PEACE BRIDGE CAMPUS IN FORT ERIE, ONTARIO</b>	Accommodation	\$ _____
	Air Fare	\$ _____
	Car Rental & Fuel	\$ _____
	Other costs (meals and incidentals):	\$ _____
	(identify what they are)	
Estimated Number of Individuals _____		
Estimated Number of Days _____		

##### **3.2 INSTALLATION (FIRM HOURLY RATES)**

The following outlined installation related labour rates will apply for emergency repairs, Task Authorizations.

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The bidder must submit a firm hourly rate for installation during and outside normal working hours for each labour category required.

Labour Categories	Hourly Rate During Regular Hours	Hourly Rate Outside Regular Hours
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____

#### 4. SOFTWARE INTEGRATION AND TESTING INCLUDING TRAVEL

4.1 The price must include all software integration costs including travel and living expenses, related to the software integration and testing of the equipment.

Firm Lot Price the software/integration as indicated in the SOW.

<b>SOFTWARE INTEGRATION</b>	<b>FIRM LOT PRICE \$</b> _____
<b>TESTING COST -</b>	<b>FIRM LOT PRICE \$</b> _____
<b>TRAVEL COST -</b>	<b>FIRM LOT PRICE \$</b> _____

**Breakdown of Travel costs are as follows:**

Site	FIRM LOT PRICE BREAKDOWN	
<b>PEACE BRIDGE CAMPUS IN FORT ERIE, ONTARIO</b>	Accommodation	\$ _____
	Air Fare	\$ _____
	Car Rental & Fuel	\$ _____
Estimated Number of Individuals _____	Other costs (meals and incidentals):	\$ _____
Estimated Number of Days _____	(identify what they are)	

##### 4.1.1 SOFTWARE INTEGRATION (FIRM HOURLY RATES)

The following outlined software integration related labour rates will apply for emergency repairs, delays and Task Authorizations.

The bidder must submit a firm hourly rate for software integration during and outside normal working hours for each labour category required.

Labour Categories	Hourly Rate During Regular Hours	Hourly Rate Outside Regular Hours
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____

##### 4.1.2 TESTING OF EQUIPMENT (FIRM HOURLY RATES)

The following outlined testing related labour rates will apply for emergency repairs, delays and Task Authorizations.

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The bidder must submit a firm hourly rate for testing of equipment during and outside normal working hours for each labour category required.

Labour Categories	Hourly Rate During Regular Hours	Hourly Rate Outside Regular Hours
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____
_____	\$ _____	\$ _____

## 5. ON-SITE TRAINING AND DOCUMENTATION

The price must include all costs including travel and living expenses, related to Training.

On-site Training Firm Lot Price including all costs related to travel and living expenses associated with on-site training as per SOW.

As-built Drawings Firm Lot Price as per SOW.

Operator and Maintenance Manuals Firm Lot Price as per SOW.

**ON-SITE TRAINING COST** **FIRM LOT PRICE \$** \_\_\_\_\_

**TRAVEL COST** **FIRM LOT PRICE \$** \_\_\_\_\_

**Breakdown of Travel costs are as follows:**

Site	FIRM LOT PRICE BREAKDOWN	
<b>PEACE BRIDGE CAMPUS IN FORT ERIE, ONTARIO</b>  Estimated Number of Individuals _____ Estimated Number of Days _____	Accommodation	\$ _____
	Air Fare	\$ _____
	Car Rental & Fuel	\$ _____
	Other costs (meals and incidentals):	\$ _____
	(identify what they are)	

**6. AS-BUILT DRAWINGS** **FIRM LOT PRICE \$** \_\_\_\_\_

**7. OPERATOR AND MAINTENANCE MANUALS** **FIRM LOT PRICE \$** \_\_\_\_\_

**PART 1 TOTAL BID PRICE \$** \_\_\_\_\_

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## **PART 2 – OPTION # 1 - SPARE PARTS AND/OR EQUIPMENT**

### **8. SPARE PARTS AND/OR TEST EQUIPMENT**

The bidder must submit a spare parts and/or test equipment list identifying each recommended spare parts and/or test equipment required. The bidder must also submit a firm unit price for each recommended spare parts required.

**FIRM LOT PRICE \$**\_\_\_\_\_

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**ANNEX "C" - TASK AUTHORIZATION FORM PWGSC-TPSGC 572**

Please see: <http://publiservice-app.pwgsc.gc.ca/forms/pdf/572.pdf>

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**ANNEX "D" – SECURITY REQUIREMENTS CHECK LIST (SRCL)**

*(SEE ATTACHED SRCL)*

# ANNEX "D" - SECURITY REQUIREMENTS CHECK LIST (SRCL)



Government of Canada  
Gouvernement du Canada

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## SECURITY REQUIREMENTS CHECK LIST (SRCL) LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

<b>PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE</b>	
1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine	2. Branch or Directorate / Direction générale ou Direction Canada Border Services Agency Operations - Southern Ontario Region
3. a) Subcontract Number / Numéro du contrat de sous-traitance	3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant TBD
4. Brief Description of Work / Brève description du travail Installation of a new camera system at Peace Bridge in Fort Erie, Ontario * 195 camera * Configuration and Programming * 200 copter cables * Electrical work	
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Non Oui	
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Non Oui	
6. Indicate the type of access required / Indiquer le type d'accès requis	
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Non Oui	
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé. <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Non Oui	
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Non Oui	
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès	
Canada <input checked="" type="checkbox"/>	NATO / OTAN <input type="checkbox"/>
Foreign / Étranger <input type="checkbox"/>	
7. b) Release restrictions / Restrictions relatives à la diffusion	
No release restrictions Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>	All NATO countries Tous les pays de l'OTAN <input type="checkbox"/>
Not releasable À ne pas diffuser <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>
Restricted to: / Limité à: <input type="checkbox"/>	Specify country(ies): / Préciser le(s) pays: <input type="checkbox"/>
7. c) Level of information / Niveau d'information	
PROTECTED A PROTÉGÉ A <input type="checkbox"/>	NATO UNCLASSIFIED NATO NON CLASSIFIÉ <input type="checkbox"/>
PROTECTED B PROTÉGÉ B <input checked="" type="checkbox"/>	NATO RESTRICTED NATO DIFFUSION RESTREINTE <input type="checkbox"/>
PROTECTED C PROTÉGÉ C <input type="checkbox"/>	NATO CONFIDENTIAL NATO CONFIDENTIEL <input type="checkbox"/>
CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/>	NATO SECRET NATO SECRET <input type="checkbox"/>
SECRET SECRET <input type="checkbox"/>	COSMIC TOP SECRET COSMIC TRÈS SECRET <input type="checkbox"/>
TOP SECRET TRÈS SECRET <input type="checkbox"/>	
TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>	

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**PART A (continued) / PARTIE A (suite)**

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?  
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes  
Non Oui

If Yes, indicate the level of sensitivity:

Dans l'affirmative, indiquer le niveau de sensibilité :

9. Will the supplier require access to extremely sensitive INFOSEC information or assets?  
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? ☒ No ☐ Yes  
Non Oui

Short Title(s) of material / Titre(s) abrégé(s) du matériel :

Document Number / Numéro du document :

**PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)**

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

- |   |   |   |  |
|---|---|---|--|
| <input checked="" type="checkbox"/> RELIABILITY STATUS<br>COTE DE FIABILITÉ | <input type="checkbox"/> CONFIDENTIAL<br>CONFIDENTIEL           | <input type="checkbox"/> SECRET<br>SECRET           | <input type="checkbox"/> TOP SECRET<br>TRÈS SECRET               |
| <input type="checkbox"/> TOP SECRET - SIGINT<br>TRÈS SECRET - SIGINT        | <input type="checkbox"/> NATO CONFIDENTIAL<br>NATO CONFIDENTIEL | <input type="checkbox"/> NATO SECRET<br>NATO SECRET | <input type="checkbox"/> COSMIC TOP SECRET<br>COSMIC TRÈS SECRET |
| <input type="checkbox"/> SITE ACCESS<br>ACCÈS AUX EMPLACEMENTS              |   |   |  |

Special comments:

Commentaires spéciaux : ESCORT IF REQUIRED

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.

REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work?  
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? ☒ No ☐ Yes  
Non Oui

If Yes, will unscreened personnel be escorted?

Dans l'affirmative, le personnel en question sera-t-il escorté? ☒ No ☐ Yes  
Non Oui

**PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)**

**INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS**

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?  
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? ☐ No ☒ Yes  
Non Oui

11. b) Will the supplier be required to safeguard COMSEC information or assets?  
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? ☒ No ☐ Yes  
Non Oui

**PRODUCTION**

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?  
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? ☒ No ☐ Yes  
Non Oui

**INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)**

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?  
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes  
Non Oui

11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?  
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale? ☒ No ☐ Yes  
Non Oui

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**PART C - (continued) / PARTIE C - (suite)**

For users completing the form manually use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.

Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the Internet), the summary chart is automatically populated by your responses to previous questions. Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET TRÈS SECRET	NATO RESTRICTED NATO DIFFUSION RESTREINTE	NATO CONFIDENTIAL	NATO SECRET	COMSEC TOP SECRET COMSEC TRÈS SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL	SECRET	TOP SECRET TRÈS SECRET
											A	B	C			
Information / Assets Renseignements / Biens Production		✓														
IT Media / Support TI																
IT Link / Lien électronique																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?  
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No  
Non

☐ Yes  
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".  
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?  
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No  
Non

☐ Yes  
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).  
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquez qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).

## ATTACHMENT 1 - EVALUATION CRITERIA

### 1 Point Rated Technical Proposal Criteria

The Bidder must obtain an overall pass score of 70 percent of the Technical Proposal and achieve the minimum mandatory points identified for each criterion, as applicable. The rating is performed on a scale of 100 points. The Technical Proposal should include, but not be limited to:

Point Rated Technical Proposal Criteria	Pts	Comments
<p><b>1.1 Understanding of the Technical Requirements (a maximum of 45 points is available)</b></p> <p>Demonstrate understanding of the technical requirements of the system which must include sufficient detail such as preliminary drawings, diagrams, photographs and sketches showing system architecture, equipment configuration, and technical information / literature/brochure on products offered.</p> <p>The Bidder's Technical Proposal will be specifically reviewed to determine whether the proposed solution meets the requirements defined in the Statement of Work (SOW) and supporting documents.</p> <p>The Bidder should demonstrate that the requirements as identified in the SOW and supporting documents have been met, by clearly describing how these will be achieved.</p> <p>( 0 points ) The proposal indicates that the Bidder does not understand the requirements identified in the SOW and supporting documents.</p> <p>( 35 points ) The proposal indicates that the Bidder understands the main concept of what is required. The Bidder's solution meets the operability, environmental, reliability, maintainability, testing and validation requirements.</p> <p>( 45 points ) The proposal clearly indicates that the proposed solution exceeds the requirement in at least 2 instances that are specifically and uniquely identified in the Technical Proposal</p> <p><b>*Minimum mandatory points required: 35</b></p>		

## 1.2 Quality Assurance and Acceptance Test Plans

Description of the proposed quality assurance procedures/processes and acceptance test plan(s) to ensure quality requirements are met and how the Bidder intends to demonstrate to the Crown that the system functions correctly, both off site (Factory Acceptance Testing) and following on-site installation (Site Acceptance Testing). A detailed list of tests to be performed with pass/fail parameters should be provided. Maximum points are broken down as follows:

Point Rated Technical Proposal Criteria	Pts	Comments
<p><b>1.2.1 Quality Assurance (a maximum of 16 points is available)</b></p> <p>How the Bidder intends to ensure quality requirements are met, a description of inspection, testing, and documentation procedures as well as quality metrics.</p> <p>( 2 points per item ) The Bidder will be awarded two points per element for clearly indicating how the proposal will meet each of the elements identified below to a limit of 16 points.</p> <p>The following is a list of elements pertaining to quality assurance. The proposal indicates:</p> <ul style="list-style-type: none"> <li>a) That the Bidder has quality assurance procedures and processes;</li> <li>b) That the results will be recorded/analyzed and conflicts will be resolved;</li> <li>c) When, how and by whom the quality requirements will be reviewed;</li> <li>d) How documents and data will be controlled;</li> <li>e) Relevant quality control processes for purchases;</li> <li>f) How the production, assembly and on-site installation processes will be controlled to ensure quality requirements are met;</li> <li>g) How measuring and test equipment is controlled and describes the format and test results to be provided;</li> <li>h) How non-conforming products are identified and controlled to prevent misuse until proper disposal.</li> </ul> <p><b>*Minimum mandatory points required: 6</b></p>		
Sub-section Total		
<p><b>1.2.2 Site Acceptance Test Plan (a maximum of 20 points is available)</b></p> <p>How the Bidder intends to demonstrate to the Crown that the system functions correctly after installation (Site Acceptance Testing), a detailed list of tests to be performed with pass/fail parameters should be provided.</p> <p>( 4 points per item ) The Bidder will be awarded four points per item for clearly indicating how the proposal will meet each of the items identified above in a) through e) to a limit of 20 points.</p> <p>The proposal indicates that the Bidder has:</p> <ul style="list-style-type: none"> <li>a) Demonstrated the requirements for testing the system after installation (Site Acceptance Testing);</li> <li>b) Provided a test plan;</li> <li>c) Provided test sheets;</li> <li>d) Provided test sheets including pass/fail parameters;</li> <li>e) Provided test sheets, including specific parameters.</li> </ul>		

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<b>1.3 Technical Risk Elements (a maximum of 19 points is available)</b>  How the Bidder intends to meet the technical requirements, a description of the technical risks elements detailing how the Bidder intends to mitigate them. The risks identified must be limited to a minimum of two Technical concerns only as non-Technical risks are evaluated separately.  ( 0 points ) The proposal indicates that the Bidder has not identified: a) A minimum of two Technical risk elements, nor b) Technical risk mitigation.  ( 10 points ) The proposal indicates that the Bidder has identified : a) Two or more Technical risk elements, and b) Risk management process, but c) Bidder does not provide a technical risk mitigation plan.  ( 14 points ) As above, plus the Bidder has provided a) A risk mitigation plan.  ( 19 points ) The proposal indicates that the Bidder has as above, plus: a) Identified the impact of the technical risks; b) Associated the technical risks with the bidder, supplier, subcontractor, customer, integration, or equipment performance; c) Described mitigation strategies for the identified technical risks; d) Identified decision points for any approaches proposed to mitigate technical risks; e) Proposed approaches to the mitigation of technical risk that support the requirements of the project.		
Sub-Section Total		
<b>Total Technical Proposal ( maximum 100 points )</b>		

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## 2 Point Rated Project Management Proposal Criteria

The Bidder must obtain an overall pass score of 70 percent for the Project Management Proposal and achieve the minimum mandatory points identified for each criterion, as applicable. The rating is performed on a scale of 100 points. The Project Management Proposal should include, but not be limited to:

<b>2.0 Previous Project Management Experience</b> The Bidder, the project manager, the project supervisor and the technicians will be evaluated. The proposal must demonstrate a detailed description of the qualification and previous experience pertaining to similar projects in terms of size, tasks, clients, and responsibilities.		
Point Rated Project Management Proposal Criteria	Pts	Comments
<b>2.1 Experience of the Bidder within the last four (4) years (a maximum of 10 points is available)</b>  ( 2 points per item ) The Bidder will be awarded two points per item for clearly indicating how the proposal will meet each of the items identified in a) through e) to a limit of 10 points.  Similar project(s) that have been successfully completed and have provided them with experience pertaining to the following elements. a) Similarity of project in terms of scope and/or clients; b) Dollar value over \$100K; c) Installation; d) Training; e) Drawings and Manuals		
Sub-Section Total		

<p><b>2.2.1 Project Manager's (and Primary Back-up Project Manager) Overall Experience (years, size of project &amp; complexity) and Qualifications (a maximum of 12 points is available)</b></p> <p>In order to maximize the number of points awarded, the proposal must include the following for each identified resource:</p> <ul style="list-style-type: none"> <li>a) A detailed description, (including dates – Month and Year) the number of years of experience in the specified role for similar projects in terms of size, dollar value, complexity, tasks, clients, and responsibilities.</li> <li>b) Their Professional Certification(s) –at least one of PMP, PMI, MBA, P.Eng, or bachelor degree.</li> <li>c) A copy of their certification or degree.</li> </ul> <p>The proposal must indicate that either the designated Project Manager or Primary Back up Project Manager has the stated levels of experience in the design, supply, installation and integration of systems similar to those described in the SOW.</p> <p>( 0 points ) – Project Manager &amp; Primary Back-Up Project Manager One or both lack experience with projects of similar size and complexity, regardless of professional certifications</p> <p>( 4 points ) – Project Manager &amp; Primary Back-Up Project Manager One or both have:</p> <ul style="list-style-type: none"> <li>i. Less than 4 years experience with projects of similar size and complexity; and</li> <li>ii. No professional certifications</li> </ul> <p>( 6 points ) – Project Manager &amp; Primary Back-Up Project Manager One or both have:</p> <ul style="list-style-type: none"> <li>i. Less than 4 years experience with projects of similar size and complexity; and</li> <li>ii. Professional certifications</li> </ul> <p>( 8 points ) – Project Manager &amp; Primary Back-Up Project Manager One or Both have:</p> <ul style="list-style-type: none"> <li>i. Between 4 and 10 years experience with projects of similar size and complexity; and</li> <li>ii. Professional certifications</li> </ul> <p>( 12 points ) – Project Manager &amp; Primary Back-Up Project Manager Both have</p> <ul style="list-style-type: none"> <li>i. Greater than 10 years experience with projects of similar size and complexity; and</li> <li>ii. Professional certifications</li> </ul> <p><b>*Minimum mandatory points required: 6</b></p>		
Sub-Section Total		

<p><b>2.2.2 Project Supervisor's (and Primary Back-Up Project Supervisor's) Overall Experience (years, size of project &amp; complexity) and Qualifications (a maximum of 8 points is available)</b></p> <p>In order to maximize the number of points awarded, the proposal must include the following for each identified resource</p> <ul style="list-style-type: none"> <li>a) A detailed description, (including dates – Month and Year) the number of years of experience in the specified role for similar projects in terms of size, dollar value, complexity, tasks, clients, responsibilities.</li> <li>b) A copy of their professional or technical certification, degree or diploma in any of the electrical, electro-mechanical, electronics, mechanical, software development, computer programming, network technology or telecommunications fields.</li> </ul> <p><b>Note:</b> Certifications from Manufacturer's courses are not considered as equivalent to a Diploma.</p> <p>The proposal must indicate that either the designated Project Supervisor or Primary Back up Project Supervisor has the stated levels of experience in the design, supply, installation and integration of systems similar to those described in the SOW.</p> <p>( 0 points ) – Project Supervisor &amp; Primary Back-Up Project Supervisor One or both lack supervisory experience with projects of similar size and complexity, regardless of professional certifications.</p> <p>( 4 points ) – Project Supervisor &amp; Primary Back-Up Project Supervisor One or both have</p> <ul style="list-style-type: none"> <li>i. Less than 4 years Supervisory experience with projects of similar size and complexity; and</li> <li>ii. No professional or technical certifications</li> </ul> <p>( 6 points ) – Project Supervisor &amp; Primary Back-Up Project Supervisor Both have</p> <ul style="list-style-type: none"> <li>i. At least 4 years Supervisory experience with projects of similar size and complexity; and</li> <li>ii. Professional or technical certifications.</li> </ul> <p>( 8 points ) – Project Supervisor &amp; Primary Back-Up Project Supervisor</p> <ul style="list-style-type: none"> <li>a) Both have <ul style="list-style-type: none"> <li>i. Greater than 10 years Supervisory experience with projects of similar size and complexity; and</li> <li>ii. Professional or technical certifications</li> </ul> </li> </ul> <p><b>*Minimum mandatory points required: 4</b></p>		
Sub-Section Total		



**2.2.3 Technician and Primary Back-up Technicians' Overall Experience (years, size of project & complexity) and Qualifications (a maximum of 8 points is available)**

In order to maximize the number of points awarded, the proposal must include the following for each identified resource:

- a) A detailed description, (including dates – Month and Year) the number of years of experience in the specified role for similar projects in terms of size, dollar value, complexity, tasks, clients, responsibilities
- b) A copy of their technical certifications in any of the electrical, electro-mechanical, electronics, mechanical, software development or computer programming including, certifications from Manufacturer's courses.

The proposal must indicate that either the designated Technician or Primary Back up Technician has the stated levels of experience in the design, supply, installation and integration of systems similar to those described in the SOW.

- ( 0 points ) – Technician & Primary Back-Up Technician  
One or both lack experience with projects of similar size and complexity, regardless of technical certifications
- ( 4 points ) – Technician & Primary Back-Up Technician  
One or both have
  - i. Between 6 months and 4 years experience with projects of similar size and complexity; and
  - ii. No Technical or manufacturers certifications
- ( 6 points ) – Technician & Primary Back-Up Technician  
One or both have
  - i. At least 4 years experience with projects of similar size and complexity; and
  - ii. Technical or manufacturers certifications.
- ( 8 points ) – Technician & Primary Back-Up Technician  
Both have
  - i. Greater than 10 years experience with projects of similar size and complexity; and
  - ii. Technical or manufacturers certifications.

**\*Minimum mandatory points required: 4**

Sub-Section Total

<p><b>2.2.4 The proposal indicates that one or more of the identified resources (stated in response to evaluation criteria 2.2.1, 2.2.2 and 2.2.3) has stated levels of experience in the design, supply, installation and integration of the systems similar to those described in the SOW, as follows: (a maximum of 10 points is available)</b></p> <p>( 0 points ) No stated experience.</p> <p>( 4 points ) Stated experience with private industry or Provincial Governments.</p> <p>( 8 points ) Stated experience with other Border Services Agency or similar organizations.</p> <p>( 10 points ) Stated experience with Canada Border Services Agency (CBSA).</p>		
Sub-Section Total		
<p><b>2.3 Project Management Structure and Procedures</b> Project management structure and procedures describing the implementation of this project.</p>		
Point Rated Project Management Proposal Criteria	Pts	Comments
<p><b>2.3.1 Project Management Organization and Responsibilities (a maximum of 10 points is available)</b></p> <p>This refers only to management personnel and the way that the Bidder plans to organize the project team for this contract.</p> <p>( 0 points ) The proposal indicates that the Bidder has:</p> <ul style="list-style-type: none"> <li>a) No project management organization in place,</li> <li>b) No plans identified to designate a separate project management team.</li> </ul> <p>( 4 points ) The proposal indicates that the Bidder has:</p> <ul style="list-style-type: none"> <li>a) No project management organization in place;</li> <li>b) A well-developed plan in place to set up a team of trained personnel.</li> </ul> <p>( 8 points ) The proposal indicates that the Bidder has:</p> <ul style="list-style-type: none"> <li>a) A project management organization/structure defined with 'matrix' personnel resources that can be made available to this project;</li> <li>b) Personnel are identified for the positions of Project Manager, the Project Supervisor, Technicians and Electricians.</li> </ul> <p>( 10 points ) The proposal indicates that the Bidder has:</p> <ul style="list-style-type: none"> <li>a) As above; plus</li> <li>b) A well-defined Project Management structure;</li> <li>c) Identified the Personnel that will be executing specific tasks;</li> <li>d) Clearly defined the responsibilities of these Personnel.</li> </ul>		
Sub-Section Total		

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<p><b>2.3.2 Project Management Procedures (a maximum of 12 points is available)</b></p> <p>This criterion will rate the systems used by the Bidders to implement their project management approach.</p> <p>( 0 points ) The proposal indicates that Project Management (PM) implementation is not addressed.</p> <p>( 4 points ) The proposal indicates that PM implementation is addressed but the Bidder has not provided sufficient details to demonstrate that a fully functional PM system is in place.</p> <p>( 8 points ) The proposal indicates a Project Management system is in place that will allow the bidder to manage the project and has identified:</p> <ul style="list-style-type: none"> <li>a) A project management organization/structure with 'matrix' personnel resources that will be made available to this project;</li> <li>b) Personnel for the positions of Project Manager, Project Supervisor, Technicians and Electricians;</li> </ul> <p>( 12 points ) - As above plus:</p> <ul style="list-style-type: none"> <li>a) Project management based on employment of Program Evaluation Review Technique (PERT) or Critical Path Method (CPM);</li> <li>b) Work breakdown structure is linked to project management;</li> <li>c) The PM system closely tracks status and progress of tasks.</li> </ul>		
<b>Sub-Section Total</b>		
<p><b>2.4 Schedule, Milestones and Project Management Tools</b></p> <p>A project schedule of events for all deliverables with milestones and rationale of how realistic and achievable they are should be provided. Availability and usage of a Project Management specific tool and the capability and implementation of supporting a secure customer facing portal that provides real time access to project specific information, including schedules and all customer facing project drawings and documents.</p>		
<b>Point Rated Project Management Proposal Criteria</b>	<b>Pts</b>	<b>Comments</b>

<p><b>2.4.1 Schedule/Milestones (a maximum of 10 points is available)</b></p> <p>A project schedule/schedule of events for all deliverables with milestones and rationale of how realistic and achievable they are including tools for addressing project slippage.</p> <ul style="list-style-type: none"> <li>a) Major milestones are identified.</li> <li>b) Logical sequence is proposed.</li> <li>c) Contingency time identified.</li> <li>d) Time estimates are realistic.</li> </ul> <p>( 0 points ) The proposal schedule only addresses 1 of the 4 areas identified above.</p> <p>( 5 points ) The proposal schedule only addresses 2 of the 4 areas identified above.</p> <p>( 8 points ) The proposal schedule addresses 3 of the 4 areas identified above.</p> <p>( 10 points )</p> <ul style="list-style-type: none"> <li>a) The proposal schedule addresses all of the 4 areas identified above; and</li> <li>b) The proposed schedule contains milestones, significant contract events, projected delivery dates and production schedules.</li> </ul>		
Sub-Section Total		
<p><b>2.4.2 Project Management Tools (a maximum of 10 points is available)</b></p> <p>These criteria will rate the Bidder on their availability and usage of a Project Management (PM) specific tool and capability of supporting a secure customer facing portal provides real time access to project specific information, including schedules and all customer facing project drawings and documents.</p> <p>( 0 points )The proposal indicates that the Bidder has not identified the PM specific software.</p> <p>( 8 points )The proposal indicates that the Bidder has identified the specialized PM software but does not support a secure customer facing portal that provides real time access to project specific information.</p> <p>( 10 points )The proposal indicates that the Bidder has identified the specialized PM software and supports a secure customer facing portal that provides real time access to project specific information including schedules, reports and meeting minutes.</p>		
Sub-Section Total		

<p><b>2.4.3 Project Risks Elements (a maximum of 10 points is available)</b></p> <p>A description of the project risks, excluding all <u>technical</u> risks previously identified, related to the proposed approach and processes for managing all project risk elements (such as resources, cost, schedule and all external elements) of the project detailing how well the Bidder understands the project risks and how they propose to mitigate them.</p> <p>( 0 points ) The proposal indicates that the Bidder has <u>not</u> clearly identified any:</p> <ul style="list-style-type: none"> <li>a) Non-technical risks associated with the project; and</li> <li>b) Non-technical risk mitigation plan.</li> </ul> <p>( 4 points ) The proposal indicates that the Bidder has clearly identified:</p> <ul style="list-style-type: none"> <li>a) The non-technical risks associated with the project, including impacts: <ul style="list-style-type: none"> <li>i. Management</li> <li>ii. Schedule</li> <li>iii. Scope changes</li> <li>iv. Financial impact</li> <li>v. Resource issues</li> </ul> </li> <li>b) Their non-technical risk management process,</li> <li>c) That the Bidder has <u>not</u> provided a non-technical risk mitigation plan.</li> </ul> <p>( 8 points ) The proposal indicates that the Bidder has clearly identified:</p> <ul style="list-style-type: none"> <li>a) As above, plus,</li> <li>b) Their non-technical risk mitigation plan.</li> </ul> <p>( 10 points ) The proposal indicates that the Bidder has clearly identified:</p> <ul style="list-style-type: none"> <li>a) As above; plus</li> <li>b) The identified risks are appropriately associated with the Bidder, Subcontractor, Customer, Integration, or Equipment Performance;</li> <li>c) That the proposed non-technical mitigation approaches are closely aligned with the requirements of the project;</li> <li>d) The decision points are identified and aligned with the proposed risk mitigation approaches.</li> </ul>		
Sub-Section Totals		
<b>Total Project Management Proposal ( maximum 100 points )</b>		

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### 3 Point Rated Support Proposal Criteria

The Bidder must obtain an overall pass score of 70 percent for the Support Proposal and achieve the minimum mandatory points identified for each criterion, as applicable. The rating is performed on a scale of 100 points. The Support Proposal should include, but not be limited to:

Point Rated Support Proposal Criteria	Pts	Comments
<b>3.0 Operator Training Plan Outline, Training and Manuals</b>  An understanding of the Operator Training requirements. Description of the proposed training plan, approach, team and information to meet the Operator training requirements. Maximum points are broken down as follows:		
Point Rated Support Proposal Criteria	Pts	Comments
<b>3.1.1 Operator training plan outline (a maximum of 15 points is available)</b>  ( 0 points ) The proposal indicates that the operator training plan outline does not meet the requirements.  ( 12 points ) The proposal indicates that the operator training plan outline meets the requirements.  ( 15 points ) The proposal indicates that the operator training plan outline: a) Meets the requirements; and b) Exceeds the minimum requirements as identified within the SOW in at least 2 instances that are uniquely and specifically identified, including the reasons for identifying them, in the Bidder's proposal.		
Sub-Section Total		
<b>3.1.2 Operator Training approach, methodology and team (a maximum of 15 points is available)</b>  ( 0 points ) That the proposal does not meet training requirements.  ( 12 points ) a) The proposal meets the training requirements and the training team is identified; b) The training approach meets the requirements.  ( 15 points ) Exceeds the minimum requirements as identified within the SOW in at least 2 instances that are uniquely and specifically identified, including the reasons for identifying them, in the Bidder's proposal.		
Sub-Section Total		

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<p><b>3.1.3 Operator Manuals (a maximum of 15 points is available)</b></p> <p>( 0 points ) The proposal indicates that the documented information does not meet the requirements.</p> <p>( 12 points ) The proposal indicates that the documented information meets the requirements.</p> <p>( 15 points ) Exceeds the minimum requirements as identified within the SOW in at least 2 instances that are uniquely and specifically identified, including the reasons for identifying them, in the Bidder's proposal.</p>		
Sub-Section Total		
<p><b>3.2 Maintenance Personnel Training Outline, Training and Manuals</b></p> <p>An understanding of the Maintenance Training requirements. Description of the proposed training plan, approach, team and information to meet the Maintenance training requirements. Maximum points are broken down as follows:</p>		
<b>Point Rated Support Proposal Criteria</b>	<b>Pts</b>	<b>Comments</b>
<p><b>3.2.1 Maintenance Training Plan Outline (a maximum of 15 points is available)</b></p> <p>( 0 points ) That the proposal does not meet the maintenance training requirements.</p> <p>( 12 points )</p> <ul style="list-style-type: none"> <li>a) The proposal meets the maintenance training requirements and the training team is identified,</li> <li>b) The training approach meets the requirements.</li> </ul> <p>( 15 points ) Exceeds the minimum requirements as identified within the SOW in at least 2 instances that are uniquely and specifically identified, including the reasons for identifying them, in the Bidder's proposal.</p>		
Sub-Section Total		
<p><b>3.2.2 Maintenance Training Approach, Methodology and Team (a maximum of 15 points is available)</b></p> <p>( 0 points ) That the proposal does not meet training requirements.</p> <p>( 12 points )</p> <ul style="list-style-type: none"> <li>a) The proposal meets the training requirements and the training team is identified;</li> <li>b) The training approach meets the requirements.</li> </ul> <p>( 15 points ) Exceeds the minimum requirements as identified within the SOW in at least 2 instances that are uniquely and specifically identified, including the reasons for identifying them, in the Bidder's proposal.</p>		
Sub-Section Total		

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<b>3.2.3 Maintenance Manuals(a maximum of 15 points is available)</b>  ( 0 points ) The proposal indicates that the documented information does not meet the requirements.  ( 12 points ) The proposal indicates that the documented information meets the requirements.  ( 15 points ) Exceeds the minimum requirements as identified within the SOW in at least 2 instances that are uniquely and specifically identified, including the reasons for identifying them, in the Bidder's proposal.		
Sub-Section Total		
<b>3.3 Spare Plan and Spare Parts List (a maximum of 10 points is available)</b>  ( 0 points ) The proposal indicates that the spares plan and spare parts list does not meet the requirements.  ( 6 points ) The proposal indicates that the spares plan and spare parts list meets the requirements.  ( 10 points ) Exceeds the minimum requirements as identified within the SOW in at least 2 instances that are uniquely and specifically identified, including the reasons for identifying them, in the Bidder's proposal.		
Sub-Section Total		
<b>Total Support Proposal (maximum 100 points)</b>		