Public Works and Government Services Canada	**Travaux publics et Services gouvernementaux Canada**

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Title - Sujet Stewart Port of Entry Redevelopment	
Solicitation No. - N° de l'invitation EZ899-160222/A	**Amendment No. - N° modif.** 005
Client Reference No. - N° de référence du client	**Date** 2015-07-03
GETS Reference No. - N° de référence de SEAG PW-$PWY-025-7523	
File No. - N° de dossier PWY-5-38027 (025)	**CCC No./N° CCC - FMS No./N° VME**

Solicitation Closes - L'invitation prend fin at - à **02:00 PM** on - le **2015-07-15**		**Time Zone Fuseau horaire** Pacific Daylight Saving Time PDT

F.O.B. - F.A.B.
Plant-Usine: ☐   Destination: ☐   Other-Autre: ☑

Address Enquiries to: - Adresser toutes questions à: Fung, Donna(PWY)	**Buyer Id - Id de l'acheteur** pwy025
Telephone No. - N° de téléphone (604) 666-9835 ( )	**FAX No. - N° de FAX** (604) 775-6633

Destination - of Goods, Services, and Construction:
Destination - des biens, services et construction:

CBSA - Stewart Port of Entry - Stewart, BC

Comments - Commentaires

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

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	**Delivery Offered - Livraison proposée**

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

Issuing Office - Bureau de distribution
Public Works and Government Services Canada - Pacific Region
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British C
V6Z 0B9

Telephone No. - N° de téléphone
Facsimile No. - N° de télécopieur

Name and title of person authorized to sign on behalf of Vendor/Firm (type or print)
Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)

Signature   **Date**

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
EZ899-160222/A	005	pwy025
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No/ N° VME
	PWY-5-38027	

This Amendment 005 is raised to :

1) revise the General Instructions - Construction Services - Bid Security Requirements,

2) revise General Condition (GC) 1 - General Provisions - Construction Services,

3) extend the bid closing date, and

4) incorporate Addendum No. 3.

****

1) In the Invitation to Tender document,

REPLACE all references to General Instructions - Construction Services - Bid Security Requirements (2015-02-25) and its contents

WITH General Instructions - Construction Services - Bid Security Requirements (2015-07-03) and its contents.

2) In the Invitation to Tender document,

REPLACE all references to General Condition (GC) 1 - General Provisions - Construction Services (2015-04-01)

WITH General Condition (GC) 1 - General Provisions - Construction Services (2015-07-03).

The revised General Instructions and General Conditions are available at the following Web Site: https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R

3)   **Extension of Time**

**Port of Entry Redevelopment
Stewart, BC**

Solicitation No: EZ899-160222/A

Notice is hereby given that the time for reception of tenders previously due at
2:00 p.m. on July 8, 2015 is hereby extended to
2:00 p.m. on July 15, 2015.

4) Please see the attached Addendum No. 3.

All other terms and conditions remain unchanged.

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
EZ899-160222/A	005	pwy025
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No/ N° VME
	PWY-5-38027	

NOTE TO TENDERERS: Use the mailing label below and affix it securely to the outside of the envelope or package containing your tender. For revisions to tenders submitted by facsimile (fax # (604) 775-9381), use this sheet as the cover sheet. Always ensure your company name, return address, tender number and closing date appear legibly on the outside of your bid submission.

REAL PROPERTY CONTRACTING
Public Works & Government Services Canada
Room 219 - 800 Burrard Street
Vancouver, B.C.   V6Z 0B9

Requisition No.:   EZ899-160222/A

Tender Closing Date & Time: 15 July 2015 at 2:00 pm

Project Description: Port of Entry Redevelopment
                                                     Stewart, BC

                                                                                                        DF

The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project, to the extent referenced and shall become a part thereof. No considerations will be allowed for extras due to the Contractor, or to any Subcontractors or Supplier, not being familiar with this Addendum.

Response to Inquiries:

1. Please indicate if any windows (other than the Inspection Booth two sliding) are to open either fully or in part.
   Response: Only the PIL Booth windows are required to be operable. Other windows shown are casement windows.

2. In the specification for Cameras they show a model number then they say or similar can be used. This wording is used throughout the specification. Only is one spot do they mention Acceptable products for cameras Axis Communication, American Dynamics or Pelco. We would like to propose using all Avigilon Cameras, Servers for Avigilon are Dell as specified and Avigilon Video Management Software. Cut sheets are attached. Please advise if this alternate will be acceptable.
   Response: A choice of brand is not enough to make a decision on acceptability of use. The global solution proposed has to fully meet the requirements that were specified. This is the contractor shall demonstrate point per point they meet the requirements. Based on the documentation provided:

   1)   Global solution: Not all the equipment of the CCTV solution are described: (No clear list of all the equipment, no UPS mentioned, no LPC cameras mentioned)
   2)   The servers proposal: fails with regard to the requirements.
   3)   The CCTV cameras proposal: fails with regard to the requirements.
   4)   No LPC cameras
   5)   Retention time: The minimum retention time of the system is less than 30 days as required (policy requirement)
   6)   Viewing station: not enough information to make a decision (lack of specification on Processor, screen size, graphic card resolution etc.)
   7)   Architecture: Failover to clarify

   Insufficient information was provided for the evaluation.

Architectural Addendum A3

1. **Replace Section 10 14 00 - 2.1.2 with:**
   All permanent signage shall be provided as new and are referenced in architectural and civil drawings. Provide all signs indicated in Appendix D.

Electrical Addendum E2

2. **Refer to the attached.**

END OF ADDENDUM NO. 3

Stewart Port of Entry Redevelopment
Project # R.071365.001
July 3, 2015

ADDENDUM No. E2
ELECTRICAL (CCTV)
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The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project, to the extent referenced and shall become a part thereof. No considerations will be allowed for extras due to the Contractor, or to any Subcontractors or Supplier, not being familiar with this Addendum.

Summary of Revision:
- Addition of three (3) License Plate capture camera as indicated.
- Deletion of rack, reference provided for sizing info. Rack to be provided by others.
- Revision to server references.
- Additional requirement of NTP time synchronisation
- Additional requirement of power shutdown during power outages.

Refer to Specification Section 28 16 00 Security Systems, dated May 29, 2015.

1. REVISE item 2.5.2 to indicate minimum 28 cameras in total.

2. REPLACE item 2.5.3 CCTV System Equipment List table in its entirety with:

Id	LOCATION	EQUIPMENT	REFERENCE #
1	Vestibule	Camera 1	D-1.2MP-80/VE-WDR
2	Public Lobby	Camera 2	D-1.2MP-100/V
3	Interview Room	Camera 3	D-1.2MP-100:AU/V
4	Cell	Camera 4	C-1.5MP-120/V
5	Cell Corridor	Camera 5	D-1.2MP-100/V
6	Bond Room	Camera 6	D-1.2MP-100/V
7	Arming Room	Camera 7	D-1.2MP-100/V
8	Corridor outside LAN Room	Camera 8	D-1.2MP-100:CORR
9	Public Counter	Camera 9	D-1.2MP-100/V
10	High Level PIL Booth Exterior	Camera 10	D-1.2MP-80/VE-WDR
11	Low Level PIL Booth Exterior	Camera 11	D-1.2MP-80/VE-WDR
12	Rear of Covered PIL	Camera 12	D-5MP-80/VE-WDR
13	Front of Covered PIL	Camera 13	D-5MP-80/VE-WDR
14	Port Runner, Northbound, (post primary)	Camera 14	D-1.2MP-80/VE-WDR
15	Port Runner, Northbound, (post primary)	Camera 14a	B-0.4MP-30:LPC/E
16	Port Runner, Southbound (vehicle & Pedestrian)	Camera 15	D-1.2MP-80/VE-WDR
17	Port Runner, Southbound (vehicle & Pedestrian)	Camera 15a	B-0.4MP-30:LPC/E
18	Port Runner, Northbound (vehicle & Pedestrian)	Camera 16	D-1.2MP-80/VE-WDR

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19	Port Runner, Northbound (vehicle & Pedestrian)	Camera 16a	B-0.4MP-15:LPC/E
20	Approach to Office Building	Camera 17	D-1.2MP-80/VE-WDR
21	Approach close to Covered PIL Building (Vehicle & Pedestrian)	Camera 18	D-1.2MP-80/VE-WDR
22	Vehicle Approach to Covered PIL (South facing)	Camera 19	D-1.2MP-80/VE-WDR
23	Secondary, South West Pole	Camera 20	D-1.2MP-80/VE-WDR
24	Secondary North West Pole	Camera 21	D-1.2MP-80/VE-WDR
25	Secondary Rear Approach	Camera 22	D-1.2MP-80/VE-WDR
26	Seized Vehicle Compound	Camera 23	D-1.2MP-80/VE-WDR
27	Blind side of Covered PIL Building, South Facing	Camera 24	D-1.2MP-80/VE-WDR
28	Blind side of Covered PIL Building, North Facing	Camera 25	D-1.2MP-80/VE-WDR
29	Server Room	Management Server / Recording Failover Server	SERVMR-MRF
30	Server Room	Recording Server #1	SERVMR-R
31	Server Room	UPS	UPSR-M
32	General Office	Workstation A (24")	VWSTMD

Summary of camera used	
D-1.2MP-80/VE-WDR	15
D-1.2MP-100/V	5
D-1.2MP-100:AU/V	1
D-1.2MP-100:CORR	1
C-1.5MP-120/V	1
D-5MP-80/VE-WDR	2
B-0.4MP-30:LPC/E	2
B-0.4MP-15:LPC/E	1

Total number of cameras	28

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3. ADD to item 2.5.4 General Camera Requirement table:

NTP Client	Cameras must be able to be configured as NTP client (Network Time Protocol) so that it can be time synchronized by an NTP server installed on the CCTV network.	

4. ADD to item 2.5.6 Special Camera Requirement, additional tables for License Plate Capture Cameras:

Reference: B-0.4MP-15:LPC/E **License Plate Capture Camera** *All stated specifications are mandatory*		Reference to bid document (document name, page and paragraph number)
Type	Must be a specialized, purpose-built license plate capture camera.	
Enclosure	Cameras must be contained in housing and securely mounted.	
Environment	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.	
Field of View	Must be capable to provide a horizontal field of view of approximately 15 degrees @ ± 10% tolerance or larger.	
Frames Per Second	Camera must support at least 15 frames per second at the minimum resolution specified above.	
Night Capability	The camera must be able to capture license plates both at day and night time.	
Resolution	Camera must have approximately a 0.45 mega pixel (MP) resolution @ ± 10% tolerance or better.	
Zoom	The camera must support at least a 5X optical zoom.	
IR	The camera must have an integrated IR illuminator that covers the distance of interest.	
Capture speed	Camera must be able to capture license plate on vehicles passing at speed up to 200km/h.	
Distance of interest	Camera must be able to capture clearly license plate on vehicles at a distance up to 13 m.	
Example	Cameras such as Bosch Dinion Capture 5000 NER-L2R3-1 or equivalent can be used.	

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Reference: B-0.4MP-30:LPC/E **License Plate Capture Camera** *All stated specifications are mandatory*		Reference to bid document (document name, page, and paragraph number)
Type	Must be a specialized, purpose-built license plate capture camera.	
Enclosure	Cameras must be contained in housing and securely mounted. .	
Environment	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.	
Field of View	Must be capable to provide a horizontal field of view of approximately 30 degrees @ ± 10% tolerance, or larger.	
Frames Per Second	Camera must support at least 15 frames per second at the minimum resolution specified above.	
Night Capability	The camera must be able to capture license plates both at day and night time.	
Resolution	Camera must have approximately a 0.45 mega pixel (MP) resolution @ ± 10% tolerance or better.	
Zoom	The camera must support at least a 5X optical zoom.	
IR	The camera must have an integrated IR illuminator that covers the distance of interest.	
Capture speed	Camera must be able to capture license plate on vehicles passing at speed up to 200km/h.	
Distance of interest	Camera must be able to capture clearly license plate on vehicles at a distance up to 6 m.	
Example	Cameras such as Bosch Dinion Capture 5000 NER-L2R1-1 or equivalent can be used.	

5. REVISE item 2.5.7 General Outdoor Dome Camera Requirement, REVISE tables for D-5MP-80/VE-WDR description from 'Indoor Camera 5MP" to "Outdoor Camera 5MP".

Reference: D-5MP-80/VE-\ DR **Outdoor Camera 5MP** *All stated requirements are mandatory*	Reference to bid document (document name, page, and paragraph number)

6. ADD to item 2.6.3 Storage capacity specifications; ADD to table the following:

Storage Capacity per recording Failover server (x1), for 5 days	1.5 TB usable
Drive number on each recording server, RAID1 (2TB)	2 drives x 2TB RAID 1

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7. REPLACE item 2.6.4 Failed Over VMS / Recording Server Specifications table in its entirety with:

Reference: SERVMR-MRF **Video Management System / Recording Failover Server Requirements** *All stated requirements are mandatory.* *The management application refers to the component of the video management system which contains configuration settings including product licensing, camera recording settings and user permissions. The management application is also responsible for user authentication as well as any logging.* *The failover application refers to the component of the video management system which takes over recording in the event of failure of the video storage server*			Reference to bid document (document name, page, and paragraph number)
Form Factor	Rackmount Sliding rails with cable management arm. The depth of the server must be less than 27"		
Processor	Number of Processors Required	2	
	Cores	4 or more	
	Clock Speed	2.4 GHz or higher	
	Instruction Set	64-bit	
	Processor such as Intel Xeon E5-2620 v3 or better		
Motherboard	Supports Dual Socket		
Memory	8GB RDIMM or higher		
RAID Controller	RAID 1 System + RAID 1 Storage 512 MB Battery Backed Cache or higher		
System/Application Drives	The drives must be RAID 1 managed. The total usable capacity after RAID must be 300GB or higher. Minimum of two (2) 2.5'' or 3.5'' drives must be present. 10K RPM or better SAS or better.		
Recording Drives	Drives must be setup on RAID 1 mode . The total usable capacity after RAID must be nine (1.5) TB or higher. Minimum of two (2) 3.5'' 2TB hot swappable drives must be present. Minimum of height (8) empty additional 3.5'' hot swappable bays for future expansion must be present.		

	7.2K RPM or better Near-line SAS or better.	
Power Supply	Must have dual, hot-plug redundant power supplies.	
OS	Must have one of Windows Server 2008 R1/R2 x64 or Windows Server 2012 x64 installed.	
	Server must be Certified for Windows by Microsoft for the version of OS installed.	
Network	Must have dual 1Gb Ethernet.	
Application Software	Video Management and Failover Application must be stored on this server.	
	The software must support the version of OS installed.	
NTP server	Must have NTP server software installed on the OS partition and activated, able to communicate and synchronize its server time with all the Devices connected on the CCTV network.	
Server To UPS Communication software	The server must have automated power shutdown software installed on the OS partition and activated, like "Powerchute". When the UPS send the order, this software must softly shutdown all the embedded applications on the server and must turn off the device.	
Example	Dell PowerEdge R730xd or equivalent configured with 2 X 300 GB SAS, 2 X 2 TB Near-Line SAS	

8. REPLACE item 2.6.5 Video Recording Server Specifications table in its entirety with:

Reference: SERVMR-R **Video Recording Server Requirements** *All stated requirements are mandatory.* *The recording application refers to the component of the video management system which receives camera data and archives this video data to disk.*			Reference to bid document (document name, page, and paragraph number)
Form Factor	Rackmount Sliding rails with cable management arm. The depth of the server must be less than 27"		
Processor	Number of Processors Required	2	
	Cores	4 or more	
	Clock Speed	2.4 GHz or higher	
	Instruction Set	64-bit	
	Processor such as Intel Xeon E5-2620 v3		

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Motherboard	Supports Dual Socket	
Memory	8GB RDIMM or higher	
RAID Controller	RAID 1 System + RAID 6 Storage 512 MB Battery Backed Cache or higher	
System/Application Drives	The drives must be RAID 1 managed. The total usable capacity after RAID must be 300GB or higher. Minimum of two (2) 2.5'' or 3.5'' drives must be present. 10K RPM or better SAS or better.	
Recording Drives	The storage must be RAID 5 managed. The total usable capacity after RAID must be nine (9) TB or higher. Minimum of four (4) 3.5'' 3TB hot swappable drives must be present. Minimum of six (6) empty additional 3.5'' hot swappable bays for future expansion must be present. 7.2K RPM or better Near-line SAS or better.	
Power Supply	Must have dual, hot-plug redundant power supplies.	
OS	Must have one of Windows Server 2008 R1/R2 x64 or	
	Windows Server 2012 x64 installed.	
Network	Must have dual 1Gb Ethernet.	
Application Software	Video Storage Application must be stored on this server.	
NTP Client	Must have NTP client software installed on the OS partition, able to communicate and synchronize the Device time with the NTP server installed on the CCTV network.	
Server To UPS Communication software	The server must have automated power shutdown software installed on the OS partition and activated, like "Powerchute". When the UPS send the order, this software must softly shutdown all the embedded applications on the server and must turn off the device.	
Example	Dell PowerEdge R730xd or equivalent configured with 2 X 300 GB SAS, 4 X 3 TB Near-Line SAS	

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9. ADD to item 2.6.6 UPS and SWT Specifications table:

Form Factor	''Rackmount'' standard width of 19'' The depth of the server must be less than 27"

10. REPLACE item 2.7.5 Enclosure Requirement table in its entirety with:
The enclosure will be provided by a 3rd party and is not part of this RFQ. Note that all related equipment must fit in the following wall mount cabinet.

http://www.middleatlantic.com/products/racks-enclosures/wall-mount-racks-cabinets/dwr-series-sectional-wall-mount-rack/dwr-18-32.aspx

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DWR Series
wall mount rack

pivoting, sectional wall cabinet is ideal for larger systems in both secured and non-secured areas

features:

- Available in 17", 22", 26" and 32" overall depths with 15", 20", 24" and 30" of useable depth
- Tool-Free Quick-Mount™ system for easy, one-person mounting of the center section to the backpan on the jobsite
- New center section rear channel accommodates slim power to save space
- Optional minimum-clearance latch allows side-by-side or interior corner mounting
- 16-gauge steel construction with 1/8" thick laser-cut corner braces
- Reversible padlockable center section is keyed differently from optional front door for security
- 2" knockouts, 4" knockouts for Wiremold 4000® Series raceways, and knockouts for UCP Series universal connector panels on side
- Grounding/bonding stud in top and bottom of center section and backpan facilitates proper grounding and bonding of electronic equipment, as per NEBS and NEC standards
- Finished in a durable black textured powder coat
- UL listed in the US and Canada

see inside for important information regarding useable depths

specifications:

EIA compliant 19" wall mount rack shall be Middle Atlantic Products model # DWR-__-__ (refer to chart). Overall dimensions shall be 23.4" W x __" H x __" D (refer to chart). Weight capacity shall be __ lbs. Tool-Free Quick-Mount™ system enables one-person installation. Useable depth shall be __" (refer to chart) and shall extend into the back pan 3.5". Center section and back pan shall be 16-gauge steel, phosphate pre-treated and finished in a black textured powder coat. Rackrail shall be constructed of 11-gauge steel with tapped 10-32 mounting holes in universal EIA spacing with black e-coat finish and marked rack spaces. Rack shall be constructed to swing open for component cabling access, center section shall pivot for either left or right opening. Rack shall have a rear knockout panel with 1/2", 3/4", 1", 1-1/2", 2" and 3" electrical knockouts installed in base, and a rear knockout panel with 1/2", 3/4", 1", 1-1/2", 2" and 3" electrical knockouts, four Decora® cutouts, and BNC knockouts for UHF/VHF antennas installed in top. Large laser knockout on back pan shall have a 12-1/2" x 12-1/2" cutout for electrical pull-box. Fan knockouts on top and bottom shall allow for installation of up to four 4-1/2" fans. Rack shall have 2" knockouts, 4" knockouts for Wiremold 4000® Series raceways, and knockouts for UCP Series universal connector panels on the side. Top, bottom and sides shall feature vertical vent pattern. DWR Series enclosures shall satisfy the 2007 & 2010 CBC; 2006, 2009 & 2012 IBC; ASCE 7-05 (2005 Edition) & ASCE 7-10 (2010 Edition) and the 2006 & 2009 editions of NFPA 5000 for use in areas of high seismicity, Seismic Use Group III, Zone 4 or Seismic Design Category (SDC) "D" with lateral force requirements for protecting 140 lbs. of essential equipment in locations with the highest level of seismicity and top floor or rooftop installations with an Importance factor (Ip) of 1.5 when used with DWRSR-ZL Latch. Rack shall be UL Listed in the US and Canada. Rack shall be GREENGUARD Gold Certified. Rack shall comply with the requirements RoHS EU Directive 2002 / 95 / EC. Rack shall be manufactured by an ISO 9001 and ISO 14001 registered company. Rack shall be warrantied to be free from defects in materials or workmanship under normal use and conditions for the lifetime of the rack.

Customizable specification clips available at middleatlantic.com

EIA/TIA COMPLIANT

US PATENT# 7, 278, 183

RoHS

c(UL)us LISTED

GREENGUARD GOLD

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818

SEISMIC CERTIFIED

options:

- Front doors shall be reinforced 16-gauge steel, model # FD-XX (solid), VFD-XX (vented, 25% open area), LVFD-XX (vented, 64% open area), PFD-XX (plexi), (XX= # of rackspaces of DWR rack)
- Keyless Latch replaces keylock, fits front & rear doors, shall be models # LATCH
- Rear rail kit 11-gauge, 10-32 threaded, sold in pairs, hardware included, shall be model # DWR-RRXX
- Fan kits with two 4-1/2" exhaust fans, fan guards and vent blockers, shall be model # DWR-FK17 (fits DWR-xx-17), DWR-FK22 (fits DWR-xx-22), DWR-FK26 (fits DWR-xx-26), DWR-FK32 (fits DWR-xx-32)
- Vent Blockers used to promote active thermal management, shall be model # VBK-D17 (fits DWR-XX-17), VBK-SD22 (fits DWR-XX-22), VBK-E20 (fits DWR-XX-26)
- Optional cover plate / shelf kit shall be model # DWR-CVR
- Minimum-clearance latch shall allow side-by-side or corner mounting, shall be model # DWRSR-ZL

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11. REPLACE item 3.1.9 CCTV System Installation Requirement table in its entirety with:

Equipment	Reference #	Set up
Devices **IMPORTANT**	All the equipment installed on the CCTV network	• All the equipment connected to the CCTV network must have fix IP addresses assigned, except if specifically mentioned • The installer must change the default password of all equipment • The installer must log all the configuration parameters, including but not limited, password, IP address, etc. and must provide a these information the CBSA authority. • The Video Management Server must be configured as a unique NTP server • The Video Recording Server must be configured as NTP client
(Cameras only) **IMPORTANT**	All the cameras installed on the CCTV network	• All camera parameters that are not mentioned must be setup by default • Setup the day/night filter to auto • Setup the IR illuminator to auto • Setup the shutter speed to auto • Setup the Automatic Gain Control (AGC) to auto • Set the focal length at the nominal distance in order to have the appropriate Field of View • Adjust the focus of the lens for each camera • Setup recording mode as continuous at the frame rate specified on each camera table, except when other recording mode is specified • Set up the viewing frame rate at 20 frames per second by default for all cameras if applicable • The audio on all cameras must be disabled unless otherwise specified.
Camera 1	D-1.2MP-80/VE-WDR	Height: 2.8m, Nominal Focal Length: 3.0 mm, WDR must be enabled
Camera 2	D-1.2MP-100/V	Height: 2.8m, Nominal Focal Length: 2.5 mm, WDR must be enabled
Camera 3	D-1.2MP-100:AU/V	Height: 2.8m, Nominal Focal Length: 2.5 mm, WDR must be enabled
Camera 4	C-1.5MP-120/V	Height: 2.8m, Interior Corner Mount: Nominal Focal Length: 2.0 mm
Camera 5	D-1.2MP-100/V	Height: 2.8m, Nominal Focal Length: 2.5 mm
Camera 6	D-1.2MP-100/V	Height: 2.8m, Nominal Focal Length: 2.5 mm
Camera 7	D-1.2MP-100/V	Height: 2.8m, Nominal Focal Length: 2.5 mm
Camera 8	D-1.2MP-100:CORR	Height: 2.8m, Corridor Mode
Camera 9	D-1.2MP-100/V	Height: 2.8m, Nominal Focal Length: 3.0 mm, WDR must be enabled
Camera 10	D-1.2MP-80/VE-WDR	Height: 3m, Nominal Focal Length: 3.0 mm, WDR must be enabled
Camera 11	D-1.2MP-80/VE-WDR	Height: 1.5m, Nominal Focal Length: 3.0 mm, WDR must be enabled
Camera 12	D-5MP-80/VE-WDR	Height: 3.5m, Nominal Focal Length: 3.0 mm
Camera 13	D-5MP-80/VE-WDR	Height: 3.5m, Nominal Focal Length: 3.0 mm
Camera 14	D-1.2MP-80/VE-WDR	Height: 3.0m, Nominal Focal Length: 8.0 mm, WDR must be enabled
Camera 14a	B-0.4MP-30:LPC/E	Height: 3.0m, Nominal Focal Length: 8.5 mm, IR illuminator turned on
Camera 15	D-1.2MP-80/VE-WDR	Height: 3.0m, Nominal Focal Length: 6.35 mm, WDR must be enabled
Camera 15a	B-0.4MP-30:LPC/E	Height: 3.0m, Nominal Focal Length: 8. 5 mm, IR illuminator turned on
Camera 16	D-1.2MP-80/VE-WDR	Height: 3.0m, Nominal Focal Length: 8.0 mm, WDR must be enabled
Camera 16a	B-0.4MP-15:LPC/E	Height: 3.0m, Nominal Focal Length: 18.0 mm, IR illuminator turned on
Camera 17	D-1.2MP-80/VE-WDR	Height: 4.0m, Nominal Focal Length: 3.0 mm, WDR must be enabled
Camera 18	D-1.2MP-80/VE-WDR	Height: 3.0m, Nominal Focal Length: 3.0 mm, WDR must be enabled
Camera 19	D-1.2MP-80/VE-WDR	Height: 3.0m, Nominal Focal Length: 3.0 mm, WDR must be enabled
Camera 20	D-1.2MP-80/VE-WDR	Height: 3.0m, Nominal Focal Length: 4.0 mm, WDR must be enabled
Camera 21	D-1.2MP-80/VE-WDR	Height: 3.0m, Nominal Focal Length: 6.0 mm, WDR must be enabled
Camera 22	D-1.2MP-80/VE-WDR	Height: 3.0m, Nominal Focal Length: 3.0 mm, WDR must be enabled
Camera 23	D-1.2MP-80/VE-WDR	Height: 3.0m, Nominal Focal Length: 3.0 mm, WDR must be enabled

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Camera 24	D-1.2MP-80/VE-WDR	Height: 3.0m, Nominal Focal Length: 3.0 mm, WDR must be enabled
Camera 25	D-1.2MP-80/VE-WDR	Height: 3.0m, Nominal Focal Length: 3.0 mm, WDR must be enabled
Video Management Server/Recording Failover Server	SERVMR-MRF	Install and set up the Video Management Software on the System partition and assign the cameras Assign the recording space on the Recording partition. Audio must be disabled on cameras outside of interview rooms. Wet cells must have toilet area masked out. Installation log to be provided to technical authority for approval. Configuration file must be backed up in secondary location. Setup Administrator, Superintendent, BSO roles
Video Recording Server	SERVMR-R	Install and set up the recording server software and assign cameras to the recording server. Setup Administrator, Superintendent, BSO roles
Viewing Station #1	VWSTMD	Install and setup the client software of the VMS chosen for Dawson Airport Setup Administrator, Superintendent, BSO roles
UPS	UPSR-M	UPS must be configured to safely shut down servers prior to exhaustion of UPS battery.

END OF ELECTRICAL ADDENDUM