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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.

Comments - Commentaires

All enquiries are to be submitted in writing to the Contracting Authority, Janine Donovan E-mail - janine.donovan@pwgsc.gc.ca or Fax No. (506) 636-4376.

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

Issuing Office - Bureau de distribution

Public Works Government Services Canada- Bid
Receiving / Réception des soumissions
189 Prince William Street
Room 405
Saint John
New Bruns
E2L 2B9

Title - Sujet Construct Dartmouth Correction Ctr	
Solicitation No. - N° de l'invitation EC016-160846/A	Amendment No. - N° modif. 005
Client Reference No. - N° de référence du client R.035143.001	Date 2015-11-16
GETS Reference No. - N° de référence de SEAG PW-\$PWB-020-3721	
File No. - N° de dossier PWB-5-38048 (020)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-11-20	
Time Zone Fuseau horaire Atlantic Daylight Saving Time ADT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Donovan, Janine PWB	Buyer Id - Id de l'acheteur pwb020
Telephone No. - N° de téléphone (506) 636-5347 ()	FAX No. - N° de FAX (506) 636-4376
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

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	
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

Cette modification de l'invitation numéro cinq (5) est soumise et comprend la modification numéro cinq (5) suivante.

La modification qui suit apportée aux documents de soumission entre en vigueur dès maintenant.

Toutes autres conditions ne changent pas.

Modification numéro 5

This addendum consists of:

- 17 typewritten pages
- 12 sketches: A201, A202, H502, V205, V206, V502, V503, V504, V505, V506, V602 and LSK1.
- 4 Electrical drawings: E6.9, E6.10, E6.11, and E6.12.
- 2 specification sections: Section 01 35 59 (5 pages) and Section 28 26 00 (3 pages)

QUESTIONS AND CLARIFICATIONS:

1. Clarification on Commissioning Requirements: For this project the General Contractor is responsible for hiring a Commissioning Agent for the building commissioning.

2. Clarification on Section 01 50 00 – Temporary Facilities, Paragraph 1.5 Site Enclosures: temporary site safety and security fencing is required at the construction site in compliance with the Halifax Regional Municipality (HRM) requirements for fencing around construction sites for safety purposes.

3. Detail 1/A3.1 shows a pop-up for an elevator over-run between gridlines H & J; Detail 2/A3.5 shows no elevator over-run. Please clarify if there is or is not an elevator over-run? If there is indeed an over-run, please clarify: as it is drawn on Detail 1/A3.1, the elevator over-run looks as though it is most likely Composite Panel, but is not labelled.

Answer: *There will be an elevator over-run, but the height of over-run will be known after award when an elevator model and manufacturer is selected from the specified acceptable models/manufacturers. Over-run will be standing seam metal roof. A detail will be issued by addendum.*

4. Detail 3/A8.5 refers to 'W2' wall assembly, but on dwg A2.0, 'W2' is referred to as 'Not Used'. Please clarify.

Answer: *This wall assembly should be 'W1'.*

5. Please clarify the locations and boundaries of the landscaping.

Answer: *Locations and boundaries of landscaping are shown on Drawing L2. The area within the Limit of Contract is to be landscaped.*

6. Is Screen type S5 used on this project? It is shown on drawing 6/A2.7 though it does not seem to be locatable on the drawings.

Answer: *Yes, there is a Screen S5 in Security Office (103) – see Drawing A4.2. The screen is mis-labelled as "S6" and it is corrected by this addenda.*

7. Is Door 106 to have an S1 screen as per the door schedule? Screen not shown on floor plans.

Answer: *No Door 106 does not have an S1 screen. See answer and correction to Door Schedule in earlier Addendum.*

8. Is there a product specification for the wood siding? There are no details on manufacturer, profile or finish for this product.

Answer: *We will provide product specification with subsequent Addenda.*

9. Please confirm if the following section of the specification is required for the elevator: Section 14 20 06 Paragraph 1.10.8.

Answer: *This feature is not required and is deleted by this Addenda.*

10. Refer to RFS (A2.10 & A2.11): Does the ceramic tile base noted refer to the tile types used for the walls (for instance, CT2.1/CT2.3 in Room 109)? If so, should the finishes noted in "Interior Elevations Washrooms" (A5.1) trump the RFS when conflicts arise (for instance, Room A110 uses CT2.1/CT2.3 on the RFS, but CT2.1/CT2.4 on 6/A5.1)? If there is base present, is it 4" or 6"?

Answer: *The ceramic wall tile will be cut 100 mm. above the floor to allow for a resilient sheet base. See earlier Addenda for clarifications.*

11. Refer to A5.1: should all tile run to 1'-0" below ceiling height in all washrooms?

Answer: *The wall tile in all washrooms extends to 2100 mm above the finish floor.*

12. Refer to 1F/A5.3 and 2/A5.3: is there base present?

Answer: *The wall tile shown in these details extends to the floor.*

13. Refer to 11A/A5.1: it calls for resilient base. Is this correct, or should the '9' be a '7'?

Answer: *A resilient base has been added by earlier Addenda.*

14. Please clarify wall tile finishes. The spec lists 5: CT2.1 to CT2.5. The room finish schedule only lists the wall finish in each room as CT. Drawing 5.1 says to refer to the RFS. Could we get a list stating where each different wall tiles goes?

Answer: *Locations for the different ceramic wall tile was clarified by earlier Addenda.*

15. Are there any requirements to supply the head end system to be redundant?

Answer: *No Redundancy is required*

16. Are there any requirements for alarm priority in the head end system?

Answer: *Alarm priority is not required; however all alarms need to be displayed and logged for acknowledgement.*

17. Is there any requirement to follow any format or specification for the report status?

Answer: *No specific requirement other than manufacturer's or industry standard.*

18. Is it acceptable to have the access control reader as an IP from the device RoxProx reader instead of the RS 485 OR RS422 door controller? And IP based I/O board?

Answer: *This appears acceptable provided that the card reader is compatible with the HID corporate 1000 system and that all system head-end equipment and door controllers are rack mounted in the LAN room. (no field devices other than those directly associated with the operation of the door (card reader/door contact etc.).*

19. Do all Division 28 (Access control, CCTV and PPA) require a redundant server?

Answer: *Not required provided the desired functionality of the systems is maintained and that the CCTV system is Genitex and installed/programmed/certified by Genitex certified personnel.*

20. Can you confirm that the outdoor cameras housing as per section 28 23 00 section 2.3 DOMES: Outdoor.
Answer: *Yes, all indoor and outdoor cameras are to be the same.*
21. Can you confirm that there is no requirement for a user workstation to display Camera wall?
Answer: *Design intent is that programming changes/video extraction for the CCTV system will be through the system head-end and a KVM tray in the LAN room.*
22. Can you confirm that 22" monitor to be directly connected to the server via KVM extender?
Answer: *Design intent is that dual 22" monitors at the reception desk will display and select cameras to view. One monitor will display all cameras in a segmented view and one monitor will display on camera at all screen.*
23. What are the wiring requirements between the Resident Card Access main controller and the 2 door controllers (per note 8 on drawings E5.2 and E5.3)?
Answer: *This may vary depending on the selected resident card access system and is to be coordinated with the manufacturer.*
24. There is a symbol (SD in a box) between rooms C200 and C201 on drawing E5.3 that isn't on the legend. What is this item?
Answer: *This symbol does not apply and will be deleted in an addendum.*
25. The HRV units 2 through 6 show disconnect switches on drawing E3.2 and E3.3 but indicated just a toggle switch on the equipment control list on drawing E6.5. Are both required?
Answer: *An addendum will clarify that only the toggle switch is required.*
26. ACCESS CONTROL & SECURITY SYSTEM Section 28 13 00 makes the following statement: "All door controllers and associated head-end equipment shall be rack mountable in a standard 19" communications rack": (Given the number of controllers) please advise if wall mounted is acceptable.
Answer: *Rack mounted is required per specification.*
27. Please advise on standard of acceptance for 2-door access controllers, Network controllers, and gateway shown in drawing E6.13.
Answer: *Riser diagram is based on an RBH system; however, is shown to show general arrangement and does not necessarily show all devices. Contractor is responsible for selecting a system that will meet the design intent.*
28. Please advise on standard of acceptance for Personal protection Alarm System.
Answer: *System is based on Nordicom securalert system.*
29. SECTION 28 13 00: 2.3 DOOR CONTACT - Door contacts are to be recessed, high security triple bias type.
- a. Please advise on standard of acceptance for door contact. **Answer:** *GE Sentrol 2757/2767 is an appropriate device.*
 - b. Please advise if surface mount contact is acceptable. **Answer:** *Surface mount contacts are not permitted. Doors are to be prepped to accept recessed contacts.*

30. SECTION 28 13 00: 2.1 DESIGN CRITERIA - .2 Camera viewing will take place at the reception/security desk via an operator's console consisting of two (2) 22" High-Definition LCD screens and mouse run over a KVM module. Additionally, viewing of cameras will be available via KVM tray adjacent CCTV head-end equipment in security equipment enclosure in LAN room.
- a. Please confirm how many systems/monitors/etc. total will be connected to the KVM module. **Answer:** *Security desk will have 2-22" monitors, one for segmented camera views, one for full screen camera. (viewing only in this location). A rack mounted KVM tray is required to modify and extract video from the CCTV system.*
 - b. Please advise if security desk pricing is to be included in this section. **Answer:** *All devices required to ensure the system can be properly operated and commissioned per the design intent are required.*
 - c. Please advise if KVM module is to be included in pricing under this section. **Answer:** *Yes*

SPECIFICATIONS:

1. In the following Specification Sections, change all references from "New Brunswick" to "Nova Scotia":
 - .1 **Section 03 10 00** - Concrete Forming and Accessories
 - .2 **Section 03 20 00** - Concrete Reinforcing
 - .3 **Section 05 12 23** - Structural Steel for Buildings
 - .4 **Section 05 21 00** - Steel Joist Framing
 - .5 **Section 05 31 00** - Steel Deck.
2. **SECTION 01 35 59 – SECURITY REQUIREMENTS AT CORRECTIONAL SERVICE CANADA FACILITIES**
 - .1 Include new specification Section 01 35 59 included with this Addenda.
 - .2 Note that CSC will require the security and contraband procedures to be followed only after Certificate of Substantial Completion has been signed off and the building is turned over to CSC operation. After Substantial Completion, the General Contractor will be required to have his forces and those of subcontractors Security cleared by the CPIC Process.
3. **SECTION 01 50 00 – TEMPORARY FACILITIES**
 - .1 Paragraph 1.5 – Site Enclosures, Sentence .1, revise sentence as follows:
 - .1 Provide temporary construction safety fence to enclose construction work site to the requirements of Halifax Regional Municipality.
 - .1 Temporary fence to be chain-link fencing minimum 1525 mm. height (5'-0" high). Snow-fencing is not acceptable.
 - .2 Provide lockable temporary gates for pedestrians and vehicles at access from Morris Drive to limit unauthorized access.
4. **SECTION 01 91 13 - COMMISSIONING REQUIREMENTS**
 - .1 Replace Paragraph 1.2.2 with the following, "Management: The CA is hired by the GC. All members work together to fulfill their contracted responsibilities and meet the objectives of the Contract Documents. Refer to Section 01 91 13 Part 1.6 for additional management details."

5. **SECTION 01 91 31 - COMMISSIONING PLAN**

- .1 Replace Paragraph 1.9.1 with the following, "In general, the CA coordinates the commissioning activities. The CA's responsibilities, along with all other contractors' commissioning responsibilities are detailed in the specifications. The Specifications will take precedence over this Cx Plan. All members work together to fulfill their contracted responsibilities and meet the objectives of the Contract Documents. Refer to the management protocols section below. For this project, the CA shall be engaged by the GC."

6. **SECTION 07 46 19 – PREFORMED METAL WALL CLADDING**

- .1 Paragraph 2.1 – MATERIALS, Sentence .2 – Preformed Metal Wall Cladding Type 1 (Vertical):
- .1 Add the following product to item .1 - Acceptable products:
- .6 "7/8 Corrugated", by Ideal Roofing.
- .2 Paragraph 2.1 – MATERIALS, Sentence .3 – Soffit Cladding:
- .1 Add the following product to item .1 - Acceptable products:
- .6 "Urban Accent – without rib", by Ideal Roofing.

7. **SECTION 08 71 00 – DOOR HARDWARE**

- .1 Paragraph 2.2 DOOR HARDWARE:
- .1 Article .3 - Hinges Butts and hinges: Replace sentence .11 with the following:
- .11 Standard of Acceptance:
- | | | | | |
|----|-------------|-----------------------|--------------|-------------------|
| .1 | Specified | Acceptable Alternates | | |
| .2 | <u>ANSI</u> | <u>McKinney</u> | <u>Hager</u> | <u>Ives</u> |
| .3 | A8112 | TA2714 | BB1279 | 5BB1 steel |
| .4 | A2112 | TA2314 | BB1191 | 5BB1 stl steel |
| .5 | A8111 | TA3786 | BB1168 | 5BB1 HW steel |
| .6 | A5111 | TA3386 | BB11699 | 5BB1 HW stl steel |
- .2 Article .4 - Continuous Geared Hinges: Replace sentence .13 with the following:
- .13 Standard of Acceptance:
- | | | | | |
|----|-----------------|-----------------------|----------------------|-------------|
| .1 | Specified | Acceptable Alternates | | |
| .2 | <u>McKinney</u> | <u>Pemko</u> | <u>Hager (Roton)</u> | <u>Ives</u> |
| .3 | MCK-12HD | CFM83SLFHD | 780-112HD | 112HD |
- .3 Article .5 – Mortise locks and latches: Add the following sentence:
- .18 Standard of Acceptance:
- | | | |
|----|----------------|-----------------------|
| .1 | Specified | Acceptable Alternates |
| .2 | <u>Sargent</u> | <u>Schlage</u> |
| .3 | 8200 | L9000 |

Door Hardware (continued)

.4 Article .6 – Exit Devices: Replace sentence .15 with the following:

.15 Standard of Acceptance:

.1	Specified	Acceptable Alternates			
.2	<u>ANSI Type</u>	<u>Sargent</u>	<u>Corbin</u>	<u>Yale</u>	<u>Von Duprin</u>
.3	Type 01	8800 - Series	ED5200	7100	98 series
.4	Type 02	8700 - Series	ED5400	7110	9827 series
.5	Type 08	8600 - Series	ED5800	7120	9847 series
.6	Type 04	8500 - Series	ED4200	7200	35 series
.7	Type 06	8400 - Series	ED4800	7220	3547 series

.5 Article .7 – Door controls (closers): Replace sentence .18 with the following:

.18 Standard of Acceptance:

.1	Specified	Acceptable Alternates:				
.2	<u>ANSI Type</u>	<u>Sargent</u>	<u>Norton</u>	<u>Corbin</u>	<u>Dorma</u>	<u>LCN</u>
.3	C02011	1431	8500	DC6200	8600 FC	1461 FC
.4	C02021	351	7500	DC3000	8900 FC	4040
.5	-	421	2800ST	DC5000	TS93	-

.6 Article .8 – Architectural door trim:

.1 Door protection plates: Replace sentence .1 with the following:

.1 Standard of Acceptance:

.1	Specified	Acceptable Alternates		
.2	<u>ANSI Type</u>	<u>Rockwood</u>	<u>Standard Metal</u>	<u>Ives</u>
.3	J102	K1050	K10A	8400

.2 Push plates: Replace sentence .1 with the following:

.1 Standard of Acceptance:

.1	Specified	Acceptable Alternates		
.2	<u>ANSI Type</u>	<u>Rockwood</u>	<u>Standard Metal</u>	<u>Ives</u>
.3	J301	70RC	K14A	8200

.3 Door pulls: Replace sentence .1 with the following:

.1 Standard of Acceptance:

.1	Specified	Acceptable Alternates		
.2	<u>ANSI Type</u>	<u>Rockwood</u>	<u>Standard Metal</u>	<u>Ives</u>
.3	J406	111 x 73CL	K14 x 2409-1(RC)	8303

.4 Door pulls: Replace sentence .1 with the following:

.1 Standard of Acceptance: Standard Metal D-352 x Mnt.

.1	Specified	Acceptable Alternates		
.2	<u>ANSI Type</u>	<u>Rockwood</u>	<u>Standard Metal</u>	<u>Ives</u>
.3	J402	BF159	3018-2	8190-2

Door Hardware (continued)

.7 Article .9 – Door controls – overhead stop: Replace sentence .9 with the following:

.9 Standard of Acceptance:

.1	Specified	Acceptable Alternates		
.2	<u>ANSI Type</u>	<u>Rixson</u>	<u>Sargent</u>	<u>Glynn Johnson</u>
.3	C01541	#1 (Concealed)	690	100 series
.4	C02541	#9 (Surface)	590	90 series
.5	C05542	#55 (Surface)	1540	450 series

.8 Article .10 – Door Stops and Holders and Auxiliary Hardware:

.1 Floor stops dome style classification: Replace sentence .1 with the following:

.1 Standard of Acceptance:

.1	Specified	Acceptable Alternates		
.2	<u>ANSI Type</u>	<u>Rockwood</u>	<u>Standard Metal</u>	<u>Ives</u>
.3	L02141	441	S101	FS436
.4	L02161	443	S103	FS438
.5	L02131	483	S110	FS441
.6	L02141	441H	-	FS439

.2 Wall stops classification, convex or concave, cast brass or bronze: Replace sentence .1 with the following:

.1 Standard of Acceptance:

.1	Specified	Acceptable Alternates		
.2	<u>ANSI Type</u>	<u>Rockwood</u>	<u>Standard Metal</u>	<u>Ives</u>
.3	L02101	406	S121	WS406CVX
.4	L02251	409	S123	WS406CCV

.3 Flush bolts classification: Replace sentence .3 with the following:

.3 Standard of Acceptance:

.1	Specified	Acceptable Alternates		
.2	<u>ANSI Type</u>	<u>Rockwood</u>	<u>Standard Metal</u>	<u>Ives</u>
.3	L04261	557	-	FB358
.4	L04251	555	F65	FB458
.5	L04021	570	F68	DP2
.6	Type 272845	840	-	FB31T
.7	Type 272945	940	-	FB41B

.9 Article .15 - Power Supplies: Replace sentence .10 with the following:

.10 Standard of Acceptance:

.1	Specified	Acceptable Alternates	
.2	<u>Securitron</u>	<u>Sargent</u>	<u>Schlage</u>
.3	BPS	3500	PS900

Door Hardware (continued)

- .10 Article .16 – Key Switches: Add sentence .5 as follows:
 - .5 Standard of acceptance:
 - .1 Specified Acceptable Alternates
 - .2 Securitron Schlage
 - .3 MKA 650 series

- .11 Article .17 - Door Status Switch: Replace sentence .4 with the following:
 - .4 Standard of Acceptance:
 - .1 Specified Acceptable Alternates
 - .2 Sargent Securitron Schlage
 - .3 3287 DPS W/M 679 series

8. SECTION 08 91 00 – LOUVRES

- .1 Paragraph 2.1 – MATERIALS, Sentence .4 – Extruded Aluminum Louvre (Type 1), Item .1 - Acceptable Products:
 - .1 Change article .3 to read: “Model EHH 701” by Greenheck Fan Corporation.
 - .2 Change article .4 to read: “Model RSR-7H Storm Resistant Horizontal Louvre” by McGill Louvres.
 - .3 Add article .5 to read: “or approved equal”.

9. SECTION 10 51 13 – METAL LOCKERS

- .1 Paragraph 2.1 – MATERIALS, Sentence .1 - Personal Effects Lockers:
 - .1 Add the following product to item .10 - Acceptable products and manufacturers:
 - .6 “Anthony Steel Lockers”, by ASM – Anthony Steel Manufacturing.

10. SECTION 14 20 06 – PASSENGER ELEVATOR

- .1 Paragraph 1.10 – MAINTENANCE AND SERVICES:
 - .1 Delete entirely Sentence .8 and sub-articles.

11. SECTION 22 42 00 COMMERCIAL PLUMBING FIXTURES

- 1. Add 1.6.1.13, “IPS Washer Box”

12. SECTION 23 07 19 THERMAL INSULATION FOR PIPING

- 1. Refer to 3.5.2.3, modify to read “Installation: TIAC Code: 1501H”
- 2. Refer to 3.5.4.1, for row that begins with the Application “Domestic Cold Water, Chilled Water, Ground Water Loop, Condensate Drains”, modify the following:
 - a. Change Application to “Domestic Cold Water, Condensate Drains, Rainwater Leaders”
 - b. Change TIAC code to C2
- 3. 3.5.4.1, for row that begins with the Application “Domestic Hot Water, Heating Water Piping”, modify the following:
 - a. Change Application to “Domestic Hot Water, Heating Water Piping, Domestic Hot Water Recirc”

13. **SECTION 25 00 00 BUILDING AUTOMATION SYSTEM**
1. Refer to 1.4.6.4, replace with the following: "The Controls contractor will provide all necessary control wiring and 115/1/60 power wiring. Power to the controllers by the Controls contractor. FT6 wiring acceptable in ceiling spaces. Wiring methods and conduits to be provided and installed as specified in Division 26."
14. **SECTION 23 73 10 HEAT RECOVERY VENTILATION UNITS**
1. Add item 1.7.2, "Alternate HRVs must fit within space available. HRV-1 to be installed above ceiling and alternate products shall fit in available ceiling space. Refer to architectural drawings for space available above ceiling. If locations of air connections differ from unit specified, contractor to submit proposed alteration to ductwork along with equipment shop drawings for review and modification if necessary. Contractor to bear the cost of alternate ductwork layout."
15. **SECTION 23 37 13 DIFFUSERS, REGISTERS AND GRILLES**
1. Item 2.1.5, add "Krueger"
16. **SECTION 23 34 00 COMMERCIAL FANS**
1. Add item 2.1.13, replace "Penn" with "PennBarry"
17. **SECTION 26 50 05 – NETWORKED LIGHTING CONTROL SYSTEM**
1. Add item 2.1.14 as follows: "The system shall be arranged so that it is capable of providing dimming to all zones without requiring additional equipment other than a new dimming switch. This includes zones which do not currently require dimming".
18. **SECTION 27 05 13 – TELECOMMUNICATIONS SYSTEMS**
1. Add item 1.3.10 as follows: "Suppliers, vendors, installers and commissioning personnel must be CPIC cleared"
19. **SECTION 27 51 16 – PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEM**
1. Add item 1.5.3 as follows: "Suppliers, vendors, installers and commissioning personnel must be CPIC cleared"
20. **SECTION 27 51 23 – VIDEO INTERCOM SYSTEM**
1. Add item 1.1.3 as follows: "Suppliers, vendors, installers and commissioning personnel must be CPIC cleared"
21. **SECTION 28 13 00 – ACCESS CONTROL & SECURITY SYSTEM**
1. Renumber items 1.2, 1.3 and 1.4 to 1.3, 1.4 and 1.5 respectively and insert new item 1.2 as follows: "QUALIFICATION OF CONTRACTORS".
 2. Add item 1.2.1 as follows: "Suppliers, vendors, installers and commissioning personnel must be CPIC cleared".

22. **SECTION 28 23 00 – CLOSED CIRCUIT TELEVISION (CCTV) VIDEO SURVEILLANCE**
1. Renumber items 1.3, 1.4, 1.5 and 1.6 to 1.4, 1.5, 1.6 and 1.7 respectively and insert new item 1.3 as follows: “QUALIFICATION OF CONTRACTORS”
 2. Add item 1.3.1 as follows: “Suppliers, vendors, installers and commissioning personnel must be CPIC cleared”.
 3. Revise item 2.2 to read: “FIXED DOME CAMERAS”
 4. Delete items 2.2.1.4 and renumber 2.2.1.5-2.2.1.14 accordingly.
23. **SECTION 28 26 00 – PERSONAL PROTECTION ALARM SYSTEM**
1. Delete Section 28 26 00 and replace section with new section 28 26 00, dated November 13, 2015, attached.
24. **SECTION 28 31 00 – MULTIPLEX FIRE ALARM SYSTEM**
1. Add item 1.2.10 as follows: “CAN/ULC-S561-2013, Fire monitoring installation”.
 2. Add item 1.3.6.13 as follows: “Cellular dialer installed in conformance with CAN/ULC S561”.
 3. Revise item 2.2 to read: “SYSTEM OPERATION SINGLE STAGE ONLY”.
 4. Revise item 2.2.7.1 to read: “Indicate respective supervisory zone at central control unit”.
 5. Revise item 2.10.2.8 to read “Carbon monoxide base where indicated”.
 6. Add item 2.10.2.9 as follows: “Standard of acceptance: Simplex 4098-9754”.

DRAWINGS:

1. **DRAWING 1/A4.2 – GROUND FLOOR DETAILED LAYOUT – CENTRE, NORTH & WEST PODS**
 - .1 Security Office (103): Change Screen designation on east wall from S6 to read “S5”.
2. **DRAWING 3/A8.5 – SECTION DETAIL LOW WALL AT ROOF**
 - .1 Change ‘W2’ wall assembly to read “W1”.
3. **DRAWING S1.0**
 - .1 Footing C-5.5: change from F3* to F4*.
 - .2 Footing G-6: change from F13* to F6*.
 - .3 Footing M-6: change from F3* to F4*.
 - .4 Footing G-7: change from F12* to F3*.
 - .5 Footing H-8: change from F11 to F4.
 - .6 Footing K-8: change from F10* to F5*.
 - .7 Footing H-9: change from F1 to F2.

DRAWING S1.0 (continued)

- .8 Footing F.5-2: change T/F from 99.100 to 98.700.
- .9 Footing G.9-2: change T/F from 99.100 to 98.700.
- .10 Footing P-4.2: change T/F from 99.100 to 98.000.
- .11 Footing P-5.5: change T/F from 99.100 to 98.000.
- .12 Footing Schedule:
 - .1 Footing F7: change footing thickness from 1000 to 500.
 - .2 Delete Footings F10, F11, F12, F13.

4. **DRAWING S1.1**

- .1 Beam near the elevator opening, between Lines 8 & 6 and J & H is a W250x33.
- .2 Base plate near K-8.7: change from BP7 to BP8.
- .3 W310x 39 eastside of stair No.1, dimension of 1260 shall be revised to 960 and ESL of 100 shall be revised to 400.
- .4 Add note to reinforce this 400 ESL with 10M L-Bars (1000 x 100) spaced at 400 c/c and 1-15M continuous bar at end of slab.

5. **DRAWING S1.2**

- .1 Column K-8: change from W200x52 to W200x59.
- .2 Baseplate at H-8: change from BP1 to BP1A.
- .3 Baseplate at M-8: change from BP2 to BP3.
- .4 Add "TJ" at column K-11.
- .5 Beam M to P-6: change from W360x33 to W360x45.

6. **DRAWING S1.3**

- .1 Wind Uplift Diagram - change all 1.8 values to 2.2.
- .2 High Roof Plan - change note below Section Arrow 34E on Line 6 to Read "Sim 3 Locs On Line 6"

7. **DRAWING S3.1**

- .1 Baseplate Details:
 - .1 Add BP1A:
 - .1 Same geometry as BP1
 - .2 PL40, 4-AR1's
 - .2 Detail BP3:
 - .1 Delete Grids 5 & L
 - .3 Detail BP10:
 - .1 Change 2-AR2's to 4-AR2's

8. **DRAWING S3.2**

- .1 Lean concrete not shown correctly on Sections 32D and 32E (refer to Typical Detail 41B on drawing S4.1)

9. **DRAWING S3.4**

- .1 Details 34A, 34B, 34C, 34D:
 - .1 Change "Bent PL6" to "Bent PL (See Plan)"
- .2 Detail 34F:
 - .1 Both C150's shown shall be C150x12

10. **DRAWING S3.7**

- .1 Lean concrete not shown correctly on Elevation 37B (refer to Typical Detail 41B on drawing S4.1)

11. **DRAWING S4.1**

- .1 Note 1 shall read "All Reinforcing bars shall be detailed with laps as follows:"

12. **DRAWING S4.3**

- .1 Masonry Wall Reinforcing Schedule
 - .1 Change the Wall Description from: "190 Blockwall Partition (Grout around Rebar)" to "190 Blockwall Partition (Grout at vertical Rebar)"

13. **DRAWING H5.1 - MECHANICAL HEATING DETAILS**

- 1. Refer to Detail 4, modify as per H502.

14. **DRAWING V2.3 - MECHANICAL SECOND LEVEL HVAC**

- 1. Add motorized damper as per V205.

15. **DRAWING V2.4 - MECHANICAL GROUND & SECOND LEVEL REFRIGERANT PIPING**

- 1. Add equipment pads for OU-1 and OU-2 as indicated in V206.

16. DRAWING V5.2 - MECHANICAL CONTROLS

1. Refer to Detail 10, delete the control point AI VALVE STATUS
2. Modify Detail 3 as per V503
3. Modify Detail 2 as per V504
4. Modify Detail 7 as per V505
5. Modify Detail 8 as per V506
6. Refer to Detail 5
 - a. Modify title to read "CONTROLS SCHEMATIC – NATURAL GAS ALARM"
 - b. Change point type from AI to DI
7. Refer to Detail 12, modify as per V502.

17. DRAWING V6.1 - MECHANICAL VENTILATION SCHEDULES

1. Refer to EXHAUST FAN SCHEDULE.
 - a. For EF-1 in BACKDRAFT DAMPER column, change "NO" to "YES"
 - b. Replace "EF-2" with "EF-2 THRU EF-11"
2. Refer to VRF FAN COILS Schedule
 - a. Add the following immediately below schedule, "NOTE: FAN COILS TO BE COMPLETE WITH AUXILIARY HEAT RELAYS AND VRF CONTROLLERS."
3. Refer to ELECTRIC HEATING COIL SCHEDULE, modify comments as per V602

18. DRAWING E3.1 – Basement Level Power and Telecommunications

1. Add power connection and toggle type disconnect switch for heat recovery box HR-0.01. Feed from circuit HP.02-18,20.

19. DRAWING E3.2 – Ground Level Power and Telecommunications

1. Revise disconnect switches for HRV-2 and HRV-3 to toggle type.
2. Add power connection and toggle type disconnect switch for heat recovery box HR-1.01. Feed from circuit HP.11-10,12
3. Add power connection and toggle type disconnect switch for heat recovery box HR-1.02. Feed from circuit HP.11-2,4
4. Add power connection and toggle type disconnect switch for heat recovery box HR-1.03. Feed from circuit HP.11-13,15
5. Add power connection and toggle type disconnect switch for heat recovery box HR-1.04. Feed from circuit HP.11-21,23
6. Add power connection and toggle type disconnect switch for heat recovery box HR-1.05. Feed from circuit HP.11-17,19

20. DRAWING E3.3 – Ground Level Power and Telecommunications

1. Revise disconnect switches for HRV-4 and HRV-5 and 6 to toggle type.

21. **DRAWING E4.2 – Ground Level Lighting**

1. Add two (2) type EL1 fixtures in main entry canopy, circuiting and control scheme to match the two currently shown.

22. **DRAWING E5.1 – Basement Level Systems**

1. Add one (1) smoke/heat detector in Jan Closet 014
2. Add one (1) Fire Alarm horn/strobe in Lan Room 012
3. Change Fire alarm strobe in electrical room 010 to horn/strobe
4. Add one (1) P.A. Speaker in Corridor 002 near gridline F5.5

23. **DRAWING E5.2 – Ground Level Systems**

1. Change eight (8) smoke/heat detectors in rooms C100, C202, C115, C116, D100, D102, D115 and D116 to co/heat/smoke type.
2. Delete two (2) connections to resident card readers for rooms D113 and D114
3. Add two (2) intrusion door contacts to doors C113 and D113
4. Add five (5) P.A. Speakers in the following locations
 - a. Intersection of B113 and B116
 - b. Intersection of C102 and C116
 - c. Intersection of D102 and D116
 - d. Common area 101 at gridline J between gridlines 5 and 5.5
 - e. Common area 101 between gridlines H and J and between gridlines 5.5 and 6
5. Relocate P.A. speaker adjacent gridline G5.5 to F5.5
6. Add one weatherproof P.A. speaker in visiting area canopy adjacent gridline J4
7. Relocate PPA receiver in Room 103 to accessible ceiling space of Corridor 117 and reference note 9.
8. Add seven (7) PPA receivers in the ceiling spaces of the following locations
 - a. Common area 101 adjacent entrance to B Pod
 - b. Common area 101 adjacent entrance to C Pod
 - c. Common area 101 adjacent entrance to D Pod
 - d. Admin area A105
 - e. Room B109
 - f. Room C113
 - g. Room D113
9. Revise note to read "...CCTV MONITORING, P.P.A. AND ACCESS CONTROL/SECURITY MONITORING..."
10. Add note 10 to read "CONFIRM EXACT LOCATIONS AND QUANTITY OF P.P.A. RECEIVERS WITH MANUFACTURER'S SHOP DRAWINGS. LAYOUT TO ALLOW FOR COMPLETE BUILDING COVERAGE IN THE EVENT OF MALFUNCTION OF ANY ONE RECEIVER"
11. Delete all fixed PPA transmitters located in offices. All units will be portable in quantities indicated in the specification.

24. **DRAWING E5.3 – Second Level Systems**

1. Change twelve (12) smoke/heat detectors in rooms B200, B202, B215, B216, C200, C202, C215, C216, D200, D202, D215 and D216 to co/heat/smoke type.
2. Relocate PPA receiver in Room 200 to accessible ceiling space of Corridor 201 and reference note 9.
3. Add four (4) P.A. Speakers in the following locations
 - a. Intersection of B202 and B216
 - b. Intersection of C202 and C216
 - c. Intersection of D202 and D216
 - d. Common area 200 at gridline J5.5
4. Relocate P.A. speaker adjacent gridline H5.5 to E5.5
5. Add three (3) intrusion door contacts to doors B213, C213 and D213
6. Add three (3) PPA receivers in Rooms B213, C213 and D213 and reference note 10.
7. Add note 10 to read "CONFIRM EXACT LOCATIONS AND QUANTITY OF P.P.A. RECEIVERS WITH MANUFACTURER'S SHOP DRAWINGS. LAYOUT TO ALLOW FOR COMPLETE BUILDING COVERAGE IN THE EVENT OF MALFUNCTION OF ANY ONE RECEIVER"
8. Delete boxed-in "SD" symbol adjacent sprinkler devices in room C201.

25. **DRAWING E6.7 – Typical Equipment Installations**

1. All details to reference drawings E3.1-E3.3

26. **DRAWING E6.8 – Lighting Fixture Schedule**

1. L1 – Add Manufacturer and Catalog No. "PEERLESS ELECTRIC NSL-4-29-40K-RA-WH-AC48-MV-D1"
2. L2 – Add Manufacturer and Catalog No. "JUNO LIGHTING TC1422LED4-41K-U-27C-WH"
3. L3 – Add Manufacturer and Catalog No. "JUNO LIGHTING TC922LEDG4-41K-U-27C-WH"
4. L5 – Add Manufacturer and Catalog No. "CREE LIGHTING ZR2450L40K10VFD"
5. L9 – Add Manufacturer and Catalog No. "SSL UNL-2-28K-WL-EN50"
6. L10 – Add Manufacturer and Catalog No. "SSL UNL-3-28K-WL-EN50"
7. L11 – Add Manufacturer and Catalog No. "SSL UNL-3-40K-WL-WN50"
8. L12 – Add Manufacturer and Catalog No. "SSL UNL-1-28K-WL-WN50"
9. L13 – Add Manufacturer and Catalog No. "EDISON ED VECTOR2-8-80W-120V-DM-WM-OP-WH-40K"
10. L14 – Add Manufacturer and Catalog No. "INDY LIGHTING L4-13-40-U-G3-90-L40P-C-WH"
11. L15 – Add Manufacturer and Catalog No. "JUNO TC1422LED4-3K-U-27C-WH"
12. L16 – Add Manufacturer and Catalog No. "RC6-GU24-CR6-800L-30K-12-GU24"
13. L17 – Add Manufacturer and Catalog No. "WILLIAMS LIGHTING LLMS-2-LED*UT20-840-S-SQ-EDD*UT-UNV"
14. Revise fixture L18 description to "1200mm LINEAR ARCHITECTURAL HIGH-ABUSE FIXTURE C/W DECORATIVE ENDCAPS"

Drawing E6.8 (continued)

15. Revise manufacturer and catalogue number for fixture type L18 as follows:
 - a. "NEWSTAR VIC4N-L2401-RW-12-WH-DE"
 - b. "KENALL MLHA548RVMWPP145L40K0-10120"
 - c. "LUMINAIRE LED VPF 446-40W HO-4000K-120-277-OP-WHT"
16. L20 – Add Manufacturer and Catalog No. "PEERLESS ELECTRIC NSL-2-23-40K-RA-WH-AC48-MV-D1"
17. Fixture L21 – Fill in blank manufacturer space for "TRPSMB..." fixture, manufacturer associated with this part number is "ALW"
18. L21 – Add Manufacturer and Catalog No. "WILLIAMS LIGHTING LLMS-2-LED*UT20/830-S-SQ-EDD*UT-UNV"
19. Fixture EL1 – Revise part numbers as follows:
 - a. "NEWSTAR NSROS-L40-RF-12-CUSTOM COLOUR"
 - b. "KENALL MR13FLPPCUSTOM COLOUR20L40K10-10120"
 - c. "LUMINAIRE LED ARV13-15W-4000K-120-277-OP-CUSTOM COLOUR"
20. EL1 – Add Manufacturer and Catalog No. "FC LIGHTING FCW3060-120V-LED-4K-1400-CUSTOM COLOUR-LD"
21. EL2 – Add Manufacturer and Catalog No. "FC LIGHTING FCW1030-120V-LED-4K-2000-CC-WFL-D" and "LUMARK XTOR2A-4K-CC"
22. EL3 – Add Manufacturer and Catalog No. "FC LIGHTING FCW1036-120V-LED-4K-2000-CC-WFL-D"
23. EL4 – Add Manufacturer and Catalog No. "CREE LIGHTING ARE-EDG-4M-DA-04-E-UL-CC-700-DIM"
24. EL5 – Add Manufacturer and Catalog No. "CREE LIGHTING ARE-EDG-4M-DA-04-E-UL-CC-700-DIM"

27. **DRAWING E6.9 – Lighting Controls Riser Diagram Sheet 1**
 1. Replace Drawing with attached revised drawing E6.9

28. **DRAWING E6.10 – Lighting Controls Riser Diagram Sheet 2**
 1. Replace Drawing with attached revised drawing E6.10

29. **DRAWING E6.11 – Lighting Controls Riser Diagram Sheet 3**
 1. Replace Drawing with attached revised drawing E6.11

30. **DRAWING E6.12 – Fire Alarm and Special Systems Riser Diagrams**
 1. Revise drawing with attached revised drawing E6.12. Refer to identified revisions.

31. **DRAWING E6.13 – Access Control And Security System Details and Riser Diagram**

1. Detail 3:
 - a. Add doors C113, D113, B213, C213 and D213 to door list.
2. Detail 1:
 - a. Add one (1) 2-door controller c/w door contacts and associated junction box for doors C113 and D113.
 - b. Add 3 door contacts and associated junction boxes for doors B213, C213 and D213 in former "Spare" locations.