



**RETURN BIDS TO:**

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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

**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**

**Vendor/Firm Name and Address**

Raison sociale et adresse du  
fournisseur/de l'entrepreneur

**Issuing Office - Bureau de distribution**

Construction Services Division/Division des services de  
construction

140 O'Connor Street

140, rue O'Connor

Ontario

Ottawa

K1A 0S5

<b>Title - Sujet</b> Building B	
<b>Solicitation No. - N° de l'invitation</b> M7594-194770/A	<b>Amendment No. - N° modif.</b> 009
<b>Client Reference No. - N° de référence du client</b> M7594-194770	<b>Date</b> 2019-03-12
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$\$FG-362-76252	
<b>File No. - N° de dossier</b> fg362.M7594-194770	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2019-03-20</b>	<b>Time Zone</b> <b>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 checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Kelly, Jessica	<b>Buyer Id - Id de l'acheteur</b> fg362
<b>Telephone No. - N° de téléphone</b> ( ) - ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b>	<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</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**The following changes to the tender documents are effective immediately. This amendment will form part of the contract documents.**

Amendment 009 is issued for the following:

- (1) Publish Bidders' Questions and Responses; and
  - (2) Publish Addendum 08.
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**(1) Bidders' Questions & Answers**

**QUESTION # 210:**

I'm reviewing our Ecosaire CRAC unit proposal and something caught my attention when comparing to the scheduled units. CRAC units (AC-01/02 along with ACP-01/02 & CU-01/02) are that of Liebert and they are the only manufacturer that build this type of unit in the world. We can offer the same unit through Ecosaire but use Glycol as our fluid type vs Refrigerant.

**ANSWER # 210:**

Please refer to Addendum No. 08.

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**QUESTION # 211:**

Refer to mechanical drawing M302. Please provide the static pressure (in. wc) required for the Square Floor Diffusers (type SD-05) in room 117.

**ANSWER # 211:**

Bid as per plans and specification.

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**QUESTION # 212:**

Refer to Addendum #5 Section 09 69 00 Article 2.3.5.1: Allow for a total of 140 cut-outs and grommets. Is a specific size or diameter required?

**ANSWER # 212:**

Bid as per plans and specification. Refer to Addendum 05, Drawing M001.2.

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**QUESTION # 213:**

Refer to Specification section 09 69 00 Part 2.3.2 Grounding connectors - solid copper. Please provide the specifications for this item.

**ANSWER # 213:**

Bid as per plans and specification. Refer to Section 09 69 00; article 1.4.3.

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**QUESTION # 214:**

In addendum #4 (part of amendment #004), the revision of section 04 22 00 – Concrete masonry unit, should item #1 and 2 indicates that “all exposed face to be finished” in lieu of the “finished four sides”?

**ANSWER # 214:**

Please refer to Addendum No. 08.

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**QUESTION # 215:**

Would you please confirm if the car charging stations noted under item # 12 of drawing C201 are new or existing? If they are new please issue specifications, as well as confirm that power has been brought to each location prior to the parking lot's construction.

**ANSWER # 215:**

Please refer to Addendum No. 08.

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**QUESTION # 216:**

Please confirm that Site # 2 is existing and that all that's required under this contract to do is install the final lift of asphalt c/w pavement markings. All other items noted on L600 and A100 are complete.

**ANSWER # 216:**

Bid as per plans and specification. Refer to drawing L600, Maintenance Note #1 and drawing A100.

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**QUESTION # 217:**

Is the thermal glass is to be etched at the factory or is this a film they are applying, the specs are calling for the etching on the exterior and I've had 2 suppliers tell me they don't know what I'm asking for.

**ANSWER # 217:**

Please refer to Addendum No. 08.

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**QUESTION # 218:**

The site furnishings call for ipe wood products and we are having a hard time finding anyone who can provide these products to us, can you point us in the direction of a supplier or model number where these items were spec'd from?

**ANSWER # 218:**

Bid as per plans and specification.

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**QUESTION # 219:**

Our sealed unit glass manufactures are advising that the Low E specifications give in addendum 06 do not match any one manufactures Low E coatings. The values are a combination from various Low E manufactures. Please review and supply new Low E specifications?

**ANSWER # 219:**

Please refer to Addendum No. 08.

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**QUESTION # 220:**

Would it be possible to provide more information on the precast copping at garbage enclosure:

- What is the profile?
- What are the dimensions of the profile?
- What is the required color?

**ANSWER # 220:**

Bid as per plans and specification.

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**QUESTION # 221:**

Could we get a cross section for the WS1 operator consoles?

**ANSWER # 221:**

Bid as per plans and specification. Refer to Section 12 50 00; article 2.2.

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**QUESTION # 222:**

Would the engineer accept a hybrid system if wired and wireless? The RCMP has approved Lutron's 434Mhz wireless communication protocol because of its security features. The hybrid system is the Lutron Energi Savr Node distributed panels connected to antennas that speak to wireless devices. The wireless devices are Occupancy sensors, daylight sensors, and dimmers and switches.

**ANSWER # 222:**

Bid as per plans and specification. Refer to Section 26 09 43; article 2.6.1.1.

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**QUESTION # 223:**

I would like to request an approval of alternates for Air-cons by Longhill. Please see submittal Data attached above. CRAC units (AC-01/02 along with ACP-01/02 & CU-01/02) are that of Liebert and they are the only manufacturer that build this type of unit in the world. We can offer the same unit through Ecosaire but use Glycol as our fluid type vs Refrigerant.

**ANSWER # 223:**

Please refer to Addendum No. 08.

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**QUESTION # 224:**

For RTU-01 to RTU-06, must the 50lb/hr gas fired humidifiers be high efficiency condensing type?

**ANSWER # 224:**

Bid as per plans and specification.

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**QUESTION # 225:**

Refer to Addendum #5 Section 09 69 00 Article 2.3.5.1: Allow for a total of 140 cut-outs and grommets. Is a specific size or diameter required?

**ANSWER # 225:**

Bid as per plans and specification. Refer to Addendum 05, Drawing M001.2.

**QUESTION # 226:**

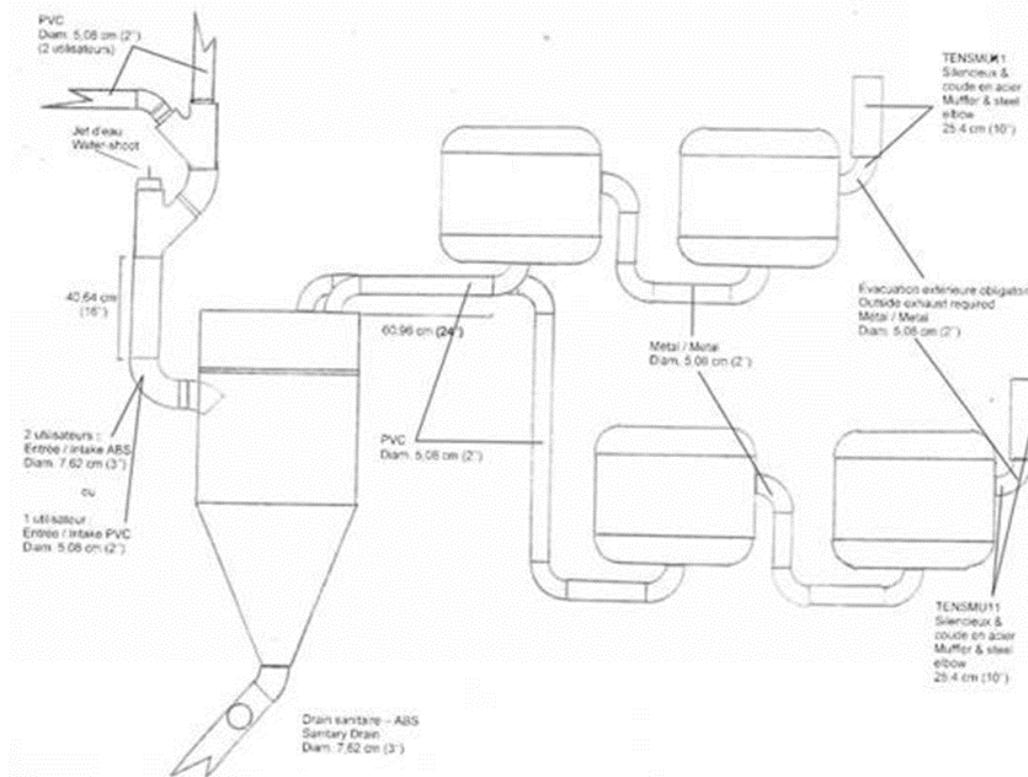
Specification section 07 52 00, Item 2.5.2 .3.4 mentions SRI of 89, manufacturers can provide SRI up to 84, would you please clarify?

**ANSWER # 226:**

Please refer to Addendum No. 08.

**QUESTION # 227:**

Specification 11 81 19, Vacuum Cleaning Systems, is calling for one specific brand/model of central vacuum system that puts two (2) smaller motors in one (1) machine and then attaches a second motor pack with an additional two (2) motors. Our option would be a system with four (4) separate motor heads that would connect into a manifold system before connecting to a 'Wave' liquid collector and a separate decanter assembly to collect large objects before the dirt is flushed into the drain (as shown below). Will the architect consider this option as acceptable?



**ANSWER # 227:**

Please refer to Addendum No. 08.

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**QUESTION # 228:**

Section 26 32 13, item 2.11.12 is asking for one (1) fuel polishing system to be used for both tanks. This would create a lot of site work to pipe between the gensets. Would the engineer consider having one (1) system for each genset? Please confirm.

**ANSWER # 228:**

Bid as per plans and specification.

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**QUESTION # 229:**

There are control valves and balancing valves shown at the branches in drawing M202 – Heating System. Also, there are control and balancing valves shown at the heaters as per details 6/M004, 7/M004, 9/M004. Is it your intention to have redundant control and balancing valves?

**ANSWER # 229:**

Bid as per plans and specification.

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**QUESTION # 230:**

Is it possible to provide a Natural Gas specification?

**ANSWER # 230:**

Bid as per plans and specification.

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**QUESTION # 231:**

Referring to Detail 7 “Rectangular Duct Installation On Roof” on drawing M002. Please clarify if continuous beam between transversal joints is part of the duct support or is it located on top of the duct? Also please indicate the degree of the slope.

**ANSWER # 231:**

Please refer to upcoming Addendum No. 09.

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**QUESTION # 232:**

Referring to section 23 81 23, CRAC units (AC-01/02 along with ACP-01/02 & CU-01/02) are products of Liebert and they are the only manufacturer that build this type of unit in the world. We can offer the same unit through Ecosaire but use Glycol as our fluid type vs Refrigerant. Please clarify if glycol cooled method is acceptable.

**ANSWER # 232:**

Please refer to Addendum No. 08.

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**QUESTION # 233:**

Referring to Section 22 13 18. Item 2.3.1. Can we use SDR-35 Gasketed pipe (sizes 4" and larger) in lieu of solvent weld PVC?

**ANSWER # 233:**

Please refer to upcoming Addendum No. 09.

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**QUESTION # 234:**

Please issue specifications for:

- Condensing units CU-01 and CU-02
- Domestic water heaters DHWH-01 and DHWH-02
- Domestic hot water storage tank DHWT-01
- Radiant panels RP-01,02,03

**ANSWER # 234:**

Please refer to upcoming Addendum No. 09.

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**QUESTION # 235:**

The door schedule in A001 shows Pressed Steel frames everywhere, even when we have a wood door. Please confirm that this is indeed the architect's intent.

**ANSWER # 235:**

Bid as per plans and specification.

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**QUESTION # 236:**

There is some unclear information about the floor finishes between the room finish schedule and spec section 09 30 13. For instance:

- a. In room 101b, in the room finish schedule it says terrazzo on the floor and terrazzo base. However, in the specs, it says CT5 as the floor finish and CT2 for the base.
- b. In room 118, in the room finish schedule it says that the base is RB but in the specs it says CT2.

Please provide clarifications.

**ANSWER # 236:**

Bid as per plans and specification. Refer to Addendum 05 (09 30 13, article 2.5.4).

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**QUESTION # 237:**

Clarification is required regarding the location that requires Waterproofing Membrane (09 30 13 – 2.9.2). Is waterproofing required to be provided up to 1200mm above floor everywhere else on the washroom floor and walls including the change rooms?

**ANSWER # 237:**

Please refer to Addendum No. 08.

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**QUESTION # 238:**

Is 100mm rigid insulation required to be provided on the face of the interior foundation walls as per note 17 of A400? Please outline the purpose of having rigid insulation there?

**ANSWER # 238:**

Bid as per plans and specification.

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**QUESTION # 239:**

Referring to the retaining wall shown on 6/C203 and mentioned in note 15 on 1/C202. Will a gabion basket type of retaining wall (made from salvaged rock) be accepted?

**ANSWER # 239:**

Bid as per plans and specification. Refer to 6/C203.

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**QUESTION # 240:**

Referring to the rock feature shown in 1&2/L300. Are these angular blast rocks already available or are they salvaged during the new building excavation? If these are from salvaged rock during excavation, I doubt we can extract rocks big enough to be able to provide shapes as shown in plan. Please clarify.

**ANSWER # 240:**

Bid as per plans and specification.

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**QUESTION # 241:**

Can we follow the recommendations from the Geotechnical Reports and set the underside of footings so they are founded in sound bedrock (at an approximate elevation of 110.5m)?

**ANSWER # 241:**

Bid as per plans and specification. Refer to Addendum 02 (S110).

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**QUESTION # 242:**

Please refer to specification section 09 51 13:

2.1.1.3 Cellulose fibre with minimum 66% recycled content.

2.1.1.8 Noise Reduction Coefficient (NRC) designation of 0.90.

They are both contradicting since there is no Cellulose Fibre that can have 0.90 NRC. Only Glass fiber or Stone Wool.

Please advise.

**ANSWER # 242:**

Please refer to Addendum No. 08.

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**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME**

Solicitation No. - N° de l'invitation  
M7594-194770

Amd. No. - N° de la modif.  
009

Buyer ID - Id de l'acheteur  
FG 362

Client Ref. No. - N° de réf. du client  
20194770

File No. - N° du dossier  
FG362 M7594-194770

CCC No./N° CCC - FMS No./N° VME  
1005007

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## **ADDENDUM 08**

The following changes in the bid documents are effective immediately. This addendum will form part of the contract documents.

## SPECIFICATIONS

### Section 04 22 00 – CONCRETE UNIT MASONRY:

- .1 **REPLACE** (Note: this supersedes Addendum 04): Article 2.1.2.4 to read:  
Surface texture: ground and polished face. All exposed faces to be finished.
- .2 **ADD** (Note: this supersedes Addendum 04): Article 2.1.3.5 to read:  
All exposed faces to be finished.

### Section 07 52 00 – MODIFIED BITUMINOUS MEMBRANE ROOFING:

- .1 **REPLACE:** Article 2.5.2.3.4 to read:  
SRI of 84.

### Section 08 80 00 – GLAZING:

- .1 **REPLACE** (Note: this supersedes Addendum 06): Article 2.1.3 to read:  
Insulating glass units: to CAN/CGSB 12.8, double glazed, hermetically sealed unit, 25 mm overall thickness.
  - .1 Interior Glass: safety glass.
  - .2 Exterior Glass: clear solar float glass.
  - .3 Glass thickness: 6.0 mm.
  - .4 Inter cavity space thickness: 12.5 mm between panes.
  - .5 Spacer: non metallic warm edge technology, low conductive spacer.  
Thickness as required to create specified cavity.
  - .6 Inert gas fill: argon.
  - .7 Glass coating: surface number 2, inside surface of the outer pane. Low "E" pyrolytic deposition. Clear.
    - .1 Visible Light Transmittance: 64%
    - .2 Solar Heat Gain Coefficient: 0.27
    - .3 Light to Solar Gain ratio: 2.37
  - .8 Bird deterrent pattern: full coverage custom translucent commercial UV stable plastic film pattern on exterior face of exterior pane.
    - .1 6 mm x 12 mm horizontal oval frit pattern.
    - .2 Offset 12mm from finished edge of frame.
    - .3 Offset alternate rows 12mm vertically.
    - .4 Follow design intent per sample pattern below showing corner condition.

### Section 09 30 13 – CERAMIC TILING:

- .1 **REPLACE:** Article 2.9.2.1 to read:  
Washroom and Washroom/Shower room floors (excluding change rooms).
- .2 **REPLACE:** Article 2.9.2.2 to read:  
Washroom and Washroom/Shower room walls (excluding change rooms).

### Section 09 51 13 – ACOUSTICAL PANEL CEILINGS:

- .1 **REPLACE:** Article 2.1.1.3 to read:  
Glass or mineral fibre.

## Section 11 81 19 – VACUUM CLEANING SYSTEMS:

- .1 **REPLACE:** Article 2.1.2.1 to read:  
Unit with automatic draining. Designed to vacuum solids and liquids.
- .2 **REPLACE:** Article 2.1.2.2.1 to read:  
Motors rated to 1420 Air Watts total, handling 95 L/s air capacity.

## Section 23 81 23 – COMPUTER ROOM AIR CONDITIONING:

- .1 **ADD:** Article 2.1.6 to read:  
Alternates:
  - .1 The following specification section is based on Computer Room Air conditioning units complete with refrigerant based cooling/free cooling and heat rejection system. Computer Room Air Conditioning Units complete with glycol based free cooling and heat rejection system is an acceptable alternative, providing all electrical requirements and energy efficiency requirements remain the same as indicated in schedule. Contractor shall provide welded steel hydronic piping in lieu of copper refrigerant piping, pumping package shall be located on roof. Provide water tight drip pan below all piping located within server room. Provide liquid sensor within drain pan and control isolation valves to isolate glycol system if liquid is sensed within drain pan. System shall meet all other requirements of this specification.

**DRAWINGS**Drawing C201 – PARKING LOT AND INTERSECTION PAVING, SIGNAGE AND MARKINGS /  
TRAVAUX DE CHAUSSÉE, ENSEIGNES ET MARQUAGES DE STATIONNEMENT ET  
D'INTERSECTION:

- .1 **REPLACE:** DRAWING NOTE 12 to read:  
PROVIDE CAR CHARGING STATION SIGN AT CENTER OF EACH CAR  
CHARGING STATION. CAR CHARGING STATIONS ARE EXISTING.

**ADDENDUM**

## ADDENDUM 05 / ADDENDA 05

## Section 25 30 02, .1:

- .1 **REPLACE:** Change article reference to read “2.3.1.3”.

## Section 25 30 02, .2:

- .1 **REPLACE:** Change article reference to read “2.5.1.2”.

## Section 25 30 02, .3:

- .1 **REPLACE:** Change article reference to read “2.6.1.2”.

## Section 25 30 02, .4:

- .1      **REPLACE:** Change article reference to read "2.7.1.2".

**End of Addendum No. 08**