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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.

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Title - Sujet Reconst. Manège militaire Québec	
Solicitation No. - N° de l'invitation EE520-151410/B	Amendment No. - N° modif. 012
Client Reference No. - N° de référence du client EE520-151410	Date 2015-02-25
GETS Reference No. - N° de référence de SEAG PW-\$QCM-009-16291	
File No. - N° de dossier QCM-4-37219 (009)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-03-12	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
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Solicitation No. - N° de l'invitation

EE520-151410/B

Amd. No. - N° de la modif.

012

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qcm009

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

EE520-151410

File No. - N° du dossier

QCM-4-37219

CCC No./N° CCC - FMS No/ N° VME

AMENDMENT 012

Content of amendment 012:

- 1) Clarifications;
 - 2) Amendment to the Invitation to Tender;
 - 3) Technical addendum 005; and
 - 4) Questions and answers #217 to 382.
-

1) CLARIFICATIONS

- 1.1) A request was made to change the BSDQ closing date to Friday 6 March 2015.
 - 1.2) The forms of Appendix 5 (Qualification form), revised to reflect the changes of amendment 006, are now available in electronic format for download on <https://buyandsell.gc.ca/> website.
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2) AMENDMENT TO THE INVITATION TO TENDER

- 2.1) At paragraph SI04 – "ENQUIRIES DURING THE SOLICITATION PERIOD ":

Delete: 1. Enquiries regarding this bid must be submitted in writing to francois.thellend@tpsgc-pwgsc.gc.ca as early as possible within the solicitation period. Except for the approval of alternative materials as described in G115 of R2710T, enquiries should be received no later than **five (5) calendar days** prior to the date set for solicitation closing to allow sufficient time to provide a response. Enquiries received after that time may not result in an answer being provided.

Insert: 1. Enquiries regarding this bid must be submitted in writing to francois.thellend@tpsgc-pwgsc.gc.ca as early as possible within the solicitation period. Except for the approval of alternative materials as described in G115 of R2710T, enquiries **MUST BE RECEIVED NO LATER THAN FRIDAY FEBRUARY 27 2015 AT 04:00PM**. Enquiries received after that time may not result in an answer being provided.

3) TECHNICAL ADDENDUM 005

You can now download Technical Addendum 005 on <https://buyandsell.gc.ca/> website and which affects the following disciplines:

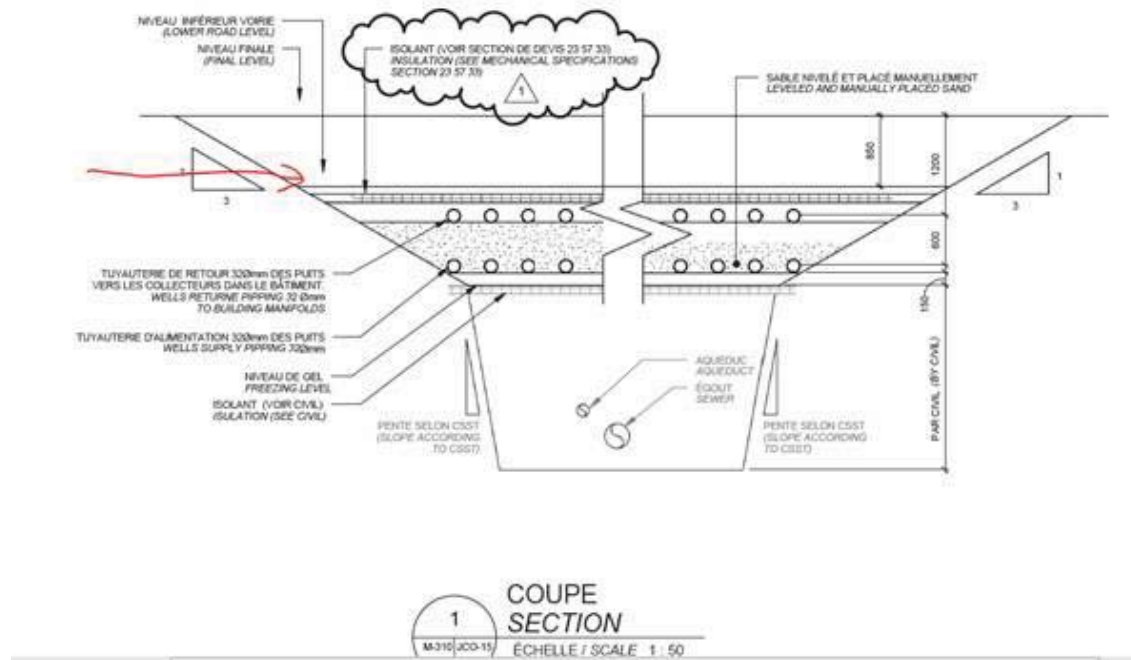
- ARCHITECTURE (A05)
 - STRUCTURE / STRUCTURAL (S05)
 - MECANIQUE / MECHANICAL (M05)
 - ELECTRICITÉ / ELECTRICAL (E05)
 - PROTECTION INCENDIE / FIRE PROTECTION (PI05)
 - PLOMBERIE / PLUMBING (PB05)
 - SÉCURITÉ PHYSIQUE / PHYSICAL SECURITY (PH04)
-

4) QUESTIONS AND ANSWERS

Question 217

Question regarding geothermic:

- Will the current layer of asphalt that covers the geothermic area be removed by the general contractor?
- Will the last 850mm between the insulation sheet and the ground level need to be filled by another? (See figure below)



- There seems to be missing information regarding the excavation (type of sand, necessary compaction test). Could this information be provided?

Answer 217

- Yes.
- See addendum 4.
- See addendum 4.

Question 218

On plan C-011, detail 3: under the concrete paving there is a pavement layer.

On page A-006, detail 14: for the same location, the cross section type is not the same. There is no pavement layer under the concrete paving.

Please confirm if there is a pavement layer under the concrete.

Answer 218

As reported on the sections of the page C -011 wherever concrete pavers should be installed in areas with traffic, an asphalt layer (EB- 14) of 70 mm must be installed under the pavement. In addition, as

shown in the section 3 on page C -011, transitions with the asphalt layer under pavers and working asphalt layers must be performed (0 @ 90 mm over a distance of 2, 7 meters).

Question 219

Are the openings to pass the fire-protection pipes the responsibility of the fire protection sub-contractor or that of the general contractor? Please confirm.

Answer 219

All drillings in patrimonial foundation walls, as well as elsewhere drillings with diameter greater than 6 inches will be made by structural division.

Question 220

Who is responsible for the demolition of the ventilation (plan M014, M015, M016 and M017)?

Answer 220

See answer 170.

Question 221

In division 23, section 23 08 02 and 23 51 00, it states that the ventilation contractor is implicated. Which works are under his responsibility?

Answer 221

See answer 82.

Question 222

In reference to plan S-112B.
In the project, there are anchorage plates of type "EE". Is it possible to provide the design of the plate with the anchorages?

Answer 222

See addendum 4.

Question 223

In to the cross section 5/S-690.
What type of dowels and spacing need to be provided?

Answer 223

See addendum 4.

Question 224

For the roof plan view, will a finishing angle need to be provided along its perimeter?

Answer 224

See addendum 4.

Question 225

Reference to cross section 8/S-681.
Must we provide grating with frames for the gutters?

Answer 225

Note on detail 8 / S-681 specifying a grating should not be there. There are no scenic walkway to the gutters. As specified on the Structural Plan S-521, relating to gutters in the multifunctional room, one should refer to architectural plans. All specifications in relation to the gutters cases, executives, plates with dividers and tubes intersections are described on sheet A-766. See also electromechanical plans.

Question 226

Reference to drawing S-112B
For all the lintels of the project, is it possible to:
- Give the type, such as R1 @ R5/S-906?
- specify the dimensions of the support plates, since only the thickness is given?

Answer 226

We believe that all required information is shown in the plans.

Question 227

Reference to cross section 8/S-558.
Where is detail 2/S-558?

Answer 227

See addendum 3.

Question 228

Reference to drawing S-211c
Should we plan for a column at the G axis (-179) – 26 (-1280) in the column schedule?

Answer 228

No.

Question 229

Will plans for the demolition of the existing oil reservoir be provided as described in the specifications?

Answer 229

The approximate location of the 10,000-liter tank is shown to have C-008 plane. Exploration wells will be required to locate this tank. No additional terms will be issued for this tank.

Question 230

Who must provide the following appliances: fan coils, humidifiers, monobloc air unit? Please specify.

Answer 230

See answer 86.

Question 231

Question regarding the mechanical thermal insulation:

- a) Reference to section 23 07 13 of the specifications, table 3.4.1. The evacuation ducts are to be insulated on what length? On 10 PL heated space &/or exterior wall or its entirety up to the fan (contradiction to the table). Please specify.
- b) For the kitchen hood vent, in section 23 07 13, there is nothing for the fire-guard insulation and nothing in section 23 38 13. Is there an insulation to be provided? If so, what type and length?
- c) Reference to section 23 07 15 of the specifications. Are the coolers insulated by this section of the specifications or are they already insulated. Please provide more information regarding the appliances to be insulated.

Answer 231

- a) No contradiction. For example, read the table as follows : "Insulate the exhaust in roof space and on a distance of 3 m (10') in heated space"
- b) Addendum coming, use 3M-Fire Master insulation type for the duct of the East kitchen hood across its length.
- c) No insulation required.

Question 232

Electricity. Has a thorough list of the sections of the specifications under the Electricity discipline been established? It is clear for us that all the sections of division 26 are under the responsibility of Electricity and these works are to be included in their price. However, there are other sections in the specifications in division 23 that the title is followed by an "(E)" mention. In division 27 – Communications, five (5) sections have the "(E)" mention following the title but section 27 51 23 Interphone System is followed by a "(PH)" mention. The same situation is also found in division 28 – Electronic Security and Protection. We understand that the sections followed by an "(E)" mention must be included in the price we provided. However, must Electricity also include all the sections that pertain to the physical security and marked by a "(PH)" mention?

Answer 232

All specification sections followed by abbreviation "E" in the table of contents, are included in the scope of works of the Electrical trade (division 26 and some sections of divisions 23, 27, 28, and 33). Specification sections followed by abbreviation "PH" in the table of contents are included in the scope of works of the Physical security trade. These two trades are independent (separate tender offers). It is to note that empty conduits for physical security systems are to be provided by the electrical trade.

Question 233

Reference to page A-506, elevation, (N-10). Pediment no. 1 that appears on the plan, it is indicated to see detail 5/A-474. There does not seem to be a page A-474, on which detail 5 should appear (see attached example). Please confirm where detail 5/A-474 is located.

Answer 233

See addendum 4

Question 234

Numerous questions regarding the architectural plans:

- a) A-560 detail 10 and 12, opening to close but what is the composition of the interior system? They are found on A-110a room S100-01 and A-111a room 100-03.
- b) A-110b, at 5.9 axis, what is the wall composition on top of the doors S100-10A and S100-10B?
- c) A-706, detail #4, the elevation mentions detail #4/A-741, however, it is a curtain wall and there is none on the plans. Are they both treated similarly?
- d) A-111c, room 100-42, column detail #1/A-753, however in the detail, there is not partition tied to the column, is this correct?
- e) A-111c, numerous columns do not have details, are they to be treated as detail 4/A-723?
- f) A-112a, the mess rooms have what composition?
- g) A112a, what are the wall compositions for the bathroom 200-05?
- h) A-112a, what is the composition above the door of room 203-11?
- i) A-528, elevations #20, room 122 North and elevation #16 room 121 South, we keep the studs apparent or we do not replace the cladding? What composition? If we base ourselves on #1/A-702 that references detail #5/A-750, it would only be gypsum but the studs would be the existent and not metallic, is this correct?
- j) In the series of plans A-520 to 535, for item 21, demolish and rebuild the bricks/stones, when there is gypsum indicated, is the gypsum to be redone at these locations?

Answer 234

- a) See addendum 4.
- b) See addendum 4, drawings A-522a.
- c) This reference is wrong and is to be deleted.
- d) Yes: the annotation SIM beside the reference means "similar".
- e) No: typical detail TYP is referenced 1/A-753.
- f) Addendum to come.
- g) See addendum 1.
- h) Wall above door 203-11A is existing and finishes shall be the same as walls on each side of the door.
- i) Addendum to come.
- j) No.

Question 235

Questions regarding section 08 and door schedule.

- a) Doors 203-03, note 30: hardware to be provided in accordance to specified group. However, there are no groups specified on the schedule. What is the correct group?
- b) Does the abutment type J10 make reference to a wooden frame or a steel frame? It is specified wood on the schedule and refers to a detail of a steel channel. (see – opening: 100-18A/18B/19A/19B/20D/20 E/ 21A/21B/22A/22B/100-esc3/esc7/esc8/200 esc3/200-08A/
- c) 203-02A: what is the type of frame? It is indicated "to come" on the schedule.
- d) 100-54A: type of door is not specified for the windowed opening. What is the door type?
- e) 100-72C: the schedule indicates Type P5 and frame CN6 for the Pocket door – however, on the plans, this is a swing-door. What is the correct type?
- f) 301-16: the schedule indicates a steel sliding door. Should it not be made of wood?
- g) S100-12: The command closet is not in the schedule. Should we provide an opening or will it be provided by the elevator supplier?
- h) S-100.01: on the plans there is a door but not on the schedule. Do we need to provide this opening?

- i) S103.04C: on the plans there is a door but not on the schedule. Do we need to provide this opening?
- j) 203-04B: on the schedule there is a door but not in the plans. Do we need to provide this opening?
- k) Transition moulding on historical frames type J7/8/9/13/14/17 and T3. Are the mouldings provided by the manufacturer of the new wooden doors (section 08 14 16 of the specifications) and installed by section 06 03 15 of the specifications?
- l) New wood frames type J1/2/3/4/5/6. Who are they provided by? Could a specification be provided for these products?

Answer 235

- a) Refer to A-720 - Addendum 3.
- b) Refer to A-720 - Addendum 3.
- c) Refer to A-720 - Addendum 3.
- d) Refer to A-720 - Addendum 3.
- e) Refer to A-720 - Addendum 3.
- f) Refer to A-720 - Addendum 3.
- g) Refer to A-720 - Addendum 3.
- h) Refer to A-720 - Addendum 3.
- i) Refer to A-720 - Addendum 3.
- j) Refer to A-720 - Addendum 3.
- k) Refer to addendum 4 - modifications to section 06 03 15.
- l) Refer to addendum 4 - modifications to section 06 03 15.

Question 236

Was Revit(3D) used to create the project drawings? If yes, is it possible to get the project model?

Answer 236

The project's model won't be provided to tenderers.

Question 237

Is the combined price form available in Excel format?

Answer 237

The electronic Excel files of the combined price form (Appendix 1) have already been made available to the tenderers. It can be downloaded on <https://buyandsell.gc.ca/> website.

Question 238

Fan-coil #VC1-506-B00 is shown in room S100-22 on drawing M-350. The fan-coil does not appear in diagrams M-350 or M-351 or in the fan-coil table on drawing M-605. Could you provide its characteristics?

Answer 238

See addendum 3.

Question 239

Fan-coil #VC1-505-C02 is shown in room 200-12 on drawing M-342 and also in diagram M-351. The fan-coil does not appear in the fan-coil table on M-605.

Answer 239

Fan coils mechanical table, we should read VC1-505-C02 instead of VC1-505-C00.

Question 240

Coil connection SF1-108-A02 in room 203-04 is shown on the sheet for drawing M-322. This coil does not appear on the diagrams on sheets M-350 or M-351 or in the coil table on sheet M-604. Please clarify.

Answer 240

See addendum 3.

Question 241

Coil connection SF1-107-A00 in room S100-30 is shown on the sheet for drawing M-320 and on the diagram on sheet M-351. This coil does not appear in the coil table on sheet M-604. Please clarify.

Answer 241

See drawing M-604.

Question 242

Question cancelled at the request of the requestor, no response needs to be provided.

Question 243

Coil connection SF1-100-B00 in the mechanical room is shown on the sheet for drawing M-335. This coil does not appear in the diagrams on sheets M-350 or M-351 or in the coil table on sheet M-604. Please clarify.

Answer 243

See addendum 3.

Question 244

Coil connection SC1-110-A02 in room 100-01 is shown on the sheet for drawing M-321. This coil does not appear in the diagrams on the sheets for drawings M-350 or M-351 or in the coil table on sheet M-604. Please clarify.

Answer 244

See addendum 3.

Question 245

Coil connection SC1-110-A01 is shown in the coil table on the sheet for drawing M-604 and in the diagram on the sheet M-351. This coil does not appear in the plan views.

Answer 245

See addendum 3.

Question 246

Force flow connector AE-CBT-A02 in room 200-08 is shown on the sheet for drawing M-322 (addendum sketch 1). This force flow does not appear in the diagrams on sheets M-350 or M-351 nor in the force flow table on sheet M-605. Please clarify.

Answer 246

See addendum 3.

Question 247

Coil connection SG1-100-B00 is shown in the diagram on the sheet for drawing M-350 and on the coil table on the sheet M-604. This coil does not appear in the plan views. Please clarify.

Answer 247

See addendum 3.

Question 248

Coil connection SG1-402-B00 is shown in the diagram on the sheet for drawing M-350 (sketch addenda #2). This coil does not appear aux plan views or in the coil table on sheet M-604. Please clarify.

Answer 248

See addendum 3.

Question 249

Fan-coil connector VC1-506-C00 is shown in the diagram on the sheet for drawing M-351 and in the fan-coil table on sheet M-605. This coil does not appear in the plan views. Please clarify.

Answer 249

See answer 238.

Question 250

Two fan-coils with the same number, VC1-504-C01, are shown in the diagram on the sheet for drawing M-351. We only see one fan-coil with that number on the plan views, and it's in a room with no number (indicated as "?" in the drawing) on the drawing M-341 in axis B/22. The fan-coil table on the sheet for drawing M-605 mention only one fan-coil with this number. Please clarify.

Answer 250

See addendum 3.

Question 251

Fan-coil connector VC1-507-A00 is shown in the diagram on the sheet for drawing M-351 as well as in the fan-coil table on sheet M-605. This coil does not appear in the plan views. Please clarify.

Answer 251

See drawing M-320.

Question 252

Fan-coil connector VC1-108-A02 is shown in the diagram on the sheet for drawing M-351 as well as in the fan-coil table on sheet M-605. This coil does not appear in the plan views. Please clarify.

Answer 252

See answer 240

Question 253

Fan-coil connector VC1-505-C00 is shown in the fan-coil table on the sheet for drawing M-605. This coil does not appear in the plan views or in the diagrams on M-350 or M-351. Please clarify.

Answer 253

See answer 239.

Question 254

In the pump table on the sheet for drawing M-603, pump P02-ERC-B00 was added in the table by addendum #2. We do not see this pump in the diagrams on M-350 or M-351 on in the plan views. Please clarify its location.

Answer 254

See addendum 3.

Question 255

For this project, it appears that drawing M-000 (cover page) has not been sent since the documents began to be sent. Is this possible? Please provide the link so we can access this drawing.

Answer 255

See answer 214.

Question 256

In section 07 52 00 of the specifications, item 3.7.4.2 requests that the base sheet membrane be torched to the roof deck. A membrane cannot be torched directly onto the 1" Fesco board. Rather, should it be torched to the bitumen?

Answer 256

See addendum 5.

Question 257

Questions relating to the architecture drawings:

- a) On the sheet for drawing A-114c, what type of partitions separate rooms 402-11 and 402-10? What about those for rooms 402-08 and 402-09 and the corridor?
- b) On the sheet for drawing A-113c, what type of double wall separates rooms 301-18 and 301-01A? Only partition type 22-B?
- c) On the sheet for drawing A-112a, for rooms 203-12, 203-13, 203-15 and 203-17, the composition of the identified wall is 19-EX. "EX" meaning "existing". Could you provide its dimensions so we can plan for the amount of insulation and studding?
- d) What type of partition should be installed between room 201-12 and elevator lobby 5?
- e) Between rooms 201-20 and 201-13, there is a 24-B-type partition, but there appears to be another one on axis F.4. What is it?
- f) In room 201-28, the partition is missing where the door and the counter are. Please clarify.
- g) On the sheet for drawing A-111a, what type of partition is required in room 100-72 behind the washroom with the exterior wall?
- h) What type of partition for the door should be used in staircase 2 in room 103-04?
- i) In room 100-65, A111c, what type of separation is required between the shower and the counter?
- j) What type of partition is to be used in room 100-52 (for both closing off the openings and separating the room)?
- k) What type of partition is required for room S100-38?

Answer 257

- a) 402-11/402-10 : 13C-I.
402-08/402-09 : 13C-I.
- b) 301-18/301-01A: 22B-I side 301-01A and 11C side 301-18.
- c) Existing studs are 75mm x 25mm.
- d) 201-12/Elevators 5 : 21C-I.
- e) 201-20/201-13 : 13C-I.
- f) 201-28 door wall : 14C-I.
Furniture wall : 14C-I.
- g) 100-72/Exterior wall : 11C-S.
- h) See addendum 5.
- i) 100-64/65 – shower/counter : 13C-S.
- j) See addendum 5.
- k) S100-38: 13C-I for 3 walls on corridor.

Question 258

Fabricated metals-related questions:

- a) Does the flat black enamelled expanded metal need to be painted on both sides?
- b) For the steel support for the curtain track under the lower catwalk, detail drawing 1 and 7/A-765, item 126 indicates a "steel structural element (see structure)", but we cannot find it on the structural drawing. Who is to supply these materials? Metalwork or the structural steel?
- c) In the specifications, section 05 50 00, in item 2.1.8, perforated metal is mentioned. Where is perforated metal mentioned in the drawings? Please clarify.

Answer 258

- a) Yes, not to see unpainted back of metal
- b) Structural steel element of curtain rail is by metalwork, it is not by structure, but it must be validated by a structural engineer of the metalwork contractor. See sheets A-211b and A-763 for localisation and length rail.
- c) See ceiling of West wing Hall on Ground floor, refer to details on A-757.

Question 259

In specification section 14 20 06, item 2.4.6.14, regarding the dimension of the doors of elevator #5, the manufacturers indicate that the total dimension of the doors should be 36" (915 mm), instead of 42" (10677 mm). Can we use a product that is a standard width such as 36"?

Answer 259

Elevator no.5 is a material lift and door width shall be as specified.

Question 260

Ventilation-related questions:

- a) Reference sheet for drawing M-604
Grille and diffuser table: will an update be issued? Some entries appear twice, while others are omitted.
Mentioned twice: A09, A18, A21, A30 & R12
Omitted: A31, R-18, R19, R20& G04
- b) Reference sheet for drawing M-420
Uncertain about the identification of supply grille A10 between axis 5 and 6. 1x A10 is mentioned twice. Is this correct or should 9x A10 be mentioned twice?
- c) Reference sheet for drawing M-423
Axis H-1: What is required for duct 400x300? Is it a regular fire damper or a motorized fire damper?
- d) Reference sheet for drawing M-424
Axis F: Unidentified terminal box. Please identify it and update the terminal box table.
- e) Reference sheet for drawing M-435
In the top of unit #105, there is an unidentified terminal box. Please identify it. In the legend, there are two 2 types of fire damper: There are regular fire dampers and motorized fire dampers. However, it is difficult to differentiate between the two in the drawing. Are motorized fire dampers required for this project?

Answer 260

- a) See addendum 3.
- b) Normally, we should consider a continuous element (grille) where ten (10) plenums connected to it.
- c) See legend.
- d) See addendum 4.
- e) See addendum 3.

Question 261

On the sheets for drawings S412, S413 and S414, some of the lintels are marked with a V notation – “Validate on site”. We understand that there is no work to be done on these lintels for the moment and that any work would be determined on site. What will be the method of payment if work is required on site? Please clarify.

Answer 261

Bidders must not plan any work on the lintels marked with a “V” note on these drawings. The work will be validated on site and the method of payment will be determined at that time.

Question 262

- a) On the sheets for drawings A-813 and A-814, items 97, 185 and 190 are identified as equipment supplied and installed by the operator and manager. However, these items are found in sections 11 40 10 and 11 40 20. Should they be supplied and/or installed or not?
- b) Another similar question on the sheets for drawings A-813 and A-814, but for items 35 and 48 that are identified as equipment supplied and installed by the mess equipment manufacturer. These items are not in sections 11 40 10 and 11 40 20. Who is to supply them?

Answer 262

- a) Items 97, 185 and 190 are equipment supplied and installed by the operator and manager. They should **not** be shown in section 11 40 10 of the specifications. They should **not** be supplied and installed by the kitchen equipment manufacturer.
- b) Item 35 was added by addendum no.1 to the section 11 40 20 of the specifications. Item 48 is already included to the section 11 40 20 of the specifications. They should be supplied and installed by the kitchen equipment manufacturer.

Question 263

In the specifications, section 10 22 27, you indicate that operable walls with storage compartments are required in rooms 201-10, 301-10 and 402-07. On the drawings, there is neither an operable wall nor a storage compartment. Please clarify.

Answer 263

See addendum 5.

Question 264

Masonry-related question:

In the "Questions & Answers" section of Amendment 005, question #30, you answer that the work performed by “others” that the walls and coping work is also part of a mason's responsibility. The “other” work, however, (all of the slabs, curbs, stair steps and integration of fences and guardrails), is clearly set out in section 09 63 40. Masonry is under division 4, but all of the “other” work is identified in division 9. Please confirm whether the work identified in item 1.2.1.2 of section 09 63 40 is the responsibility of the masonry contractor or the finishing contractor.

Answer 264

Clarifications to come by addendum.

Question 265

In the "Questions & Answers" section of Amendment 005, question #31, you answer that the specification for these eight benches is indicated in the specifications. We verified the sections of the specifications for masonry work and did not find the specification. Please confirm that this work is not the responsibility of the masonry contractor and also specify which trade is responsible for it.

Answer 265

These benches are not within the specialty "masonry, but "Exterior site furniture", Section 32 37 00.

Question 266

Series of electrical-related questions:

- a) There does not appear to be a model or model number for the P-1-type luminaires. Please specify one.
- b) A sheet for drawing E-302, between the MFA and the annunciator in the east wing, it mentions to install a two-inch conduit only for his section, the rest of the system is not indicated. Please specify whether the conduit system for the connection between the annunciators and the le main panel is actually two inches or is it only for the part indicated in the drawing.
- c) Who is to supply the underfloor duct system in drawing E-211?
- d) Why are the electrical conduits requested for the feeders on the sheets for drawings E-503 and E-504 one or two sizes larger than electrical code requirements?
- e) In the sheet for drawing E-503, between the pull box and panel W-R-B3U1, there is a request for one 4" conduit with 3 #10 rwu. A ¾" conduit would suffice for inside the building. Should we bid with a 4" or would you prefer to reduce it to a ¾"?
- f) Also, in the sheet for drawing E-503, between the pull box and panel W-R-B3H1, there is a request for 4" conduit with 4 #1 rwu. A 2" conduit would suffice for inside the building. Should we bid with a 4" or would you prefer to reduce it to a 2"?
- g) In addendum E-02, you added a combination starter in drawing E-211. Who is to supply this starter? We have no idea of the system's voltage or HP that will be on this starter nor do we know where this system is located on the drawings. Please clarify.
- h) Panel W-S-L2H1 is not on the drawing and there is no layout on the E-600 series pages. Please clarify.

Answer 266

- a) Refer to upcoming addendum.
- b) Cabling between PAI and annunciators shall be as indicated in the fire alarm diagram on drawing E-506. A conduit size of 27 mm is suitable.
- c) Floor gutters in multipurpose room will be constructed by structure/architecture and are not included in the scope of electrical works.
- d) Provide conduits with indicated sizes.
- e) Conduit size 103 mm is only for the ductbank part. For the indoor part, refer to upcoming addendum.
- f) Conduit size 103 mm is only for the ductbank part. For the indoor part, refer to upcoming addendum.
- g) Refer to addendum No. 3 for the features of the motor and the circuit.
- h) This panelboard is cancelled (refer to addendum 2).

Question 267

What is the deadline for submitting questions?

Answer 267

Please refer to item IP04 of the tender notice.

Question 268

Is there an existing door table that indicates the type of doors required (drawings E-870 and E-871) or must we refer to each door?

Answer 268

See on floor plans E-820 to E-862 the note in parenthesis (TYPE-X). Also refer to Door schedule on architectural drawing A-720.

Question 269

In section 28 13 00 of the specifications, for the hardware of the electric door, must we refer to the hardware groups in section 08 71 00 or the components listed in the electronic drawings (E-800 series) for each door? There are differences between the two, for example:

Doors listed under each of the groups in the door hardware list but not appearing in the plans:
100-62D, 100-62, S100-34B, 100-30, 100-54A, 103-08B, 200-08B, S100-ESC4, 200-ESC3, S100-27A, 100-74A.

Doors in plans but not listed in the door hardware list:

100-62G, 301-04, 144, 100-13, 100-39B, 100-39C, 201-08, 301-5, 201-16, 303-02, 100-23A, 100-05H.

Door on plan E-832 axis A2 – 29.7 with TYPE 12 which does not exist in the door details.

Answer 269

See addendum 4 and 5.

Question 270

In section 11 12 00, the specifications call for three barriers at specific locations, however only two are shown and were included in the E-800 and E-300 series drawings (for the conduits). It would be appreciated if the total quantity can be validated and, if need be, indicate the exact location of the third barrier in the drawing as well as the conduits required.

Answer 270

Three gates are to be supplied and installed in this project. Necessary corrections will be applied in addendum.

Question 271

In section 27 51 23 of the specifications, secondary intercommunications system (PIS) stations equipped with video cameras are requested. In drawing E-800, note no. 6 indicates that a PIS equipped with a video camera is required. Are PISs with video cameras required for each of the intercommunication system stations or only the station indicated in note no. 6 (the other stations remain intercommunication system stations with audio only)?

Answer 271

All intercom sub-stations shall be equipped with a video camera.

Question 272

The sheet for drawing A-003 mentions to see drawings 422-423 for the north armoury bridge stairwell. On this drawing, it is called staircase 27 but on drawing A-101 it is referred to as staircase 18. Is this an error? If it is an error, the section in specification 09 63 40 where the staircases 19, 20 27 and 28 are identified must be corrected.

Answer 272

Stair no. 18 on sheet A-101 and A-609 will be renamed no.27 because it is the same stair. Numbering on specifications stays unchanged

Question 273

The sheet for drawing A-423, detail 13, shows a block of granite. What are the specifications of these blocks and how many are required?

Answer 273

This is the same granite type as the one of stair no.27. There are two block of granite on both sides of stair no. 27. See dimensions on addendum 3.

Question 274

The sheet for drawing A-423, details 7 and 15, shows notched granite tiling. At this location the tiling must be thicker, but the specifications indicate 38-mm tiling. Please clarify.

Answer 274

All stones of edges of pedestrian bridges 100-80, 100-80a, 100-80b and 100-80c are 50mm thick.

Question 275

Structure question: what is the applied load for all roof trusses?

Answer 275

The question is not accurate. For snow load, see addendum 2. For the reaction of support is 730 kN in the ultimate by truss seating.

Question 276

On the sheets for drawings A-435b, A-437, A-438, A-750 and A-757, there are still are details missing that are indicated "to follow". When will these details be available?

Answer 276

Refer to addendum 3 and 4.

Question 277

Plumbing/heating/geothermal-related questions:

- a) Drains identified as ASM do not appear to be specified in the specifications? Is this correct?
- b) On the plumbing drawing M102, some equipment is identified as EC, does this refer to kitchen equipment supplied by the plumber?
- c) Who is to supply the roof drains?
- d) Who is to supply the domestic water meter?
- e) Is the equipment in sections 23 73 10, 23 82 19 and 23 84 13 supplied by the ventilation contractor and connected by the plumbing and heating contractor?
- f) Who is responsible for the boring the foundation wall for access to the (40 pits) 80 32mm pipes in the mechanical room? Is the excavation the responsibility of the plumber?
If the plumber is responsible for the excavation, will the existing bitumen that covers the geothermal field be removed by the general contractor?
If not, it appears that some of the excavation information is missing (including type of sand, necessary compaction testing). Is this information available?
- g) Who is to fill the last 850 mm between the sheet of insulation and ground level?

Answer 277

- a) Refer to addendum 3.
- b) Abbreviation EC indicates kitchen equipment that are not included in the scope of plumbing works. Refer to item 2.6 of specification section 22 42 03.
- c) Refer to upcoming addendum.
- d) Domestic water meter are included in the scope of plumbing works (refer to item 2.12 of specification section 22 42 01).
- e) Connection of these equipment is included in the scope of heating works. Connection of the equipment drainage is included in the scope of plumbing works.
- f) Sleeves are planned for the passage of the 80 geothermal pipes in the foundation wall (see structural plans S-472). The geothermal contractor must however seal all 80 passages once the piping is in place. The sealing shall be done a "Link-seal" system type. See questions 314, 343 and 382 for geothermal excavation.
- g) See addendum 4.

Question 278

What type of parapet is to be used in the following locations:

- A-112c (axis E.6 between 22 and 24)?
- A-113c (axis F.4 between 23.8 and 26)?
- A-115c (axis E.8 between 26.8 and 30)?

Answer 278

- A-112c (axe E.6 between 22 and 24): PA-10
- A-113c (axe F.4 between 23.8 and 26): refer to 6/A-436
- A-115c (axe E.8 between 26.8 and 30): On E.8 only on the right side (between ±30 and ±31) – refer to 8/A-437

Question 279

Detail 15/A-301 does not exist. Reference is from 1/A-300. Please clarify.

Answer 279

See answer 208.

Question 280

What type and dimensions are the windows in the expansion of the west wing and the new windows in the existing buildings?

Answer 280

West wing windows are curtain wall. Types and windows dimensions of the existing building are indicated on window schedule on sheets A-470 and A-471.

Question 281

What type of windows are required for the two windows between axis G and H in level 4 east elevation?

Answer 281

The window's numbers of the two windows between axis G & H on level 4 are indicated on sheet A-301.

Question 282

What height should the interior structure of detail 7/A-443 have? What are the dimensions of the UL wood? A detail of the structure to be reconstructed is required.

Answer 282

Addendum to come.

Question 283

What size should the rafters be in detail 5/A-449? Please specify.

Answer 283

See addendum 3.

Question 284

The excerpted sketch from the sheet for drawing A-448 issued in addenda A-02 shows a cross-section of the lightning protection system identified by 9/A-445. However, on page A-445, there is no detail with this number. Therefore, we do not know its location nor the quantity required. Please specify.

Answer 284

There is only one detail of this type and it is located on the Guard house roof ridge between both spires.

Question 285

You issued revision #1 of page A-015 in addendum A-02 (amendment 004). Would it be possible to indicate the items that were amended as there is no amendment balloon? Please specify.

Answer 285

The whole sheet entitled A-015 has been revised.

Question 286

Questions related to the steel structure, specifications, section 05 12 23:

- a) In the top view of the mechanical room, detail 6/S-112c, is the level of 98255 correct? It seems as though it should be 94055, that is, the level of the top of the steel. Please specify.
- b) In drawing S-211c, in the table of columns – West Wing, there is a column in the lower tables that is not designated: axis(-179)-26(-1280). Please specify the material required for this column.
- c) In drawing S-211c, in the table of columns – West Wing, A column in the lower tables is placed at axis G(-179)-26(-1280), but in the drawing for levels 2, 3 and 4, I cannot find it. Please specify its location.

Answer 286

Precision will be given in addendum

- a) Top of steel, floor of mechanical room shown on 6 / S112c : 94 055
Floor notes on S-112c: TOC Elevation: 95 730
TOS Elevation: 95 565
- b) Drawing S-211c : There is no column at G(-179)-26(-1280)
- c) Drawing S-211c : There is no column at G(-179)-26(-1280)

Question 287

With reference to section 08 and the table of doors:

- a) There is a major lack of coordination between the groups of hardware specified in the table and the list of hardware in section 08 71 00. Which is the right document? Also, many groups are inappropriate for the specified openings. Clarification required.
- b) Table of doors – Comment 23 – Doors at least STC 50; 14 steel openings have this mark. However, the usual STC for steel is STC 44 or STC 47. To obtain STC 50 or higher, it is only possible to provide reference products, such as those of companies like Ambico, which are a lot more expensive. Since there is nothing in the specifications to clarify this point, could you please specify which products should be used? STC 44 or STC 47 are acceptable choices, otherwise specialized products will be required and explanations in the specifications will be required.

Answer 287

- a) See addendum 3.
- b) STC47 is an acceptable choice for these doors.

Question 288

How much force does the diaphragm exert for the shear transfer element in axis 8.1?

Answer 288

It's rather at the axis C.8 that there are shear studs. See addendum for details.

Question 289

What type of wood is to be used for the glue-laminate wood parts?

Answer 289

See section 06 18 00 and addendum.

Question 290

What is the impact grade for the CLT panels?

Answer 290

See addendum.

Question 291

Type T3 roof: Can you specify who will be doing what in this composition of the roof? The concrete panel, the metallic structure and the mineral fibre insulation are not in roof section 07 52 00. Which contractor will be making them?

Answer 291

T3 roof composition is replaced by T1.2. Addendum to come.

Question 292

Fire protection:

- a) Who is manufacturing the 8-inch water inlet inside the building?
- b) According to specification section 09 91 23 (paint), article 3.6, the fire protection pipes should be painted red. Is this the case? Is this the responsibility of the painter or the fire protection contractor?
- c) The sprinkler plans contain diameters and details. Do we need to redo the drawings and details or execute the proposed drawings, as is?
- d) Is the general contractor drilling the holes in the concrete?

Answer 292

- a) Main water supply from 1 meter of the building to indoor is included in the scope of fire protection works.
- b) Pipe painting is included in the scope of architectural works. Refer to upcoming addendum.
- c) Indicated diameters are required. The submittal of coordination drawings with other trades (erection drawings) is also required.
- d) Refer to answer 219.

Question 293

Questions on the structure drawings:

- a) Reference to drawing S-582, details A, B & C. Where do we apply these details?
- b) Reference to drawing S-584. Cross-section 4 refers us to drawing S-583, but there is no cross-section 4 on this drawing; where does this cross-section come from?
- c) Reference to drawing S-585. Cross-sections 1, 2 & 3 refer us to drawing S-583, but there are no links on that drawing. Where are these cross-sections?
- d) Reference to drawing S-586. Cross-sections 7 & 8 refer us to drawing S-001c; however, this drawing does not exist. Which drawing contains these cross-sections?

Answer 293

- a) Sheet S-582 has been issued in addendum 1.
- b) These sheets have been issued in addendum 1 (S-583) and addendum 3 (S-584).
- c) Sections 1, 2 and 3 are really on S-583 and detailed on S-585.
- d) S-110b.

Question 294

Questions about the mechanics:

- a) In Addendum Me-02, drawing M-603 was reissued. In the table of pedestals, springs and flexible connections, the types of springs do not match those in specification section 23 05 48. Please clarify.
- b) Also, there is no specification section referring us to the flexible connections mentioned in this table. Is the section still to come? Is this an omission? Please clarify.
- c) In Addendum PB-02, page 1 of 23, Clarifications. No drainage is shown in drawing M110. On which drawing(s) are we supposed to change the floor drains?

Answer 294

- a) See addendum 4.
- b) See addendum 4.
- c) Reference to be made to drawing M-103 instead of M-110.

Question 295

Structured cabling:

- a) The telecommunications rooms are not in the drawing. Please indicate where they are located.
- b) Do you have a description of the termination and the equipment in the communications rooms?
- c) Do you have a fibre network?

Answer 295

- a) Telecommunication installations in telecommunication rooms are out-of-scope. Empty conduit and boxes are required and are included in the scope of electrical works.
- b) Out of scope.
- c) Optical fiber networks are out-of-scope.

Question 296

On drawing A-112c, between axis 30-31 and B-5-E8, there is a type T2 roof. Drawing A-414, cross-section 1, shows this roof on level 2, but this time it is called "T3." If you follow the reference cross-section, namely 2 of A-436, we see that this roof is now T1. Can you confirm the right composition for the roof?

Answer 296

For the T2 roof composition, see details 1/A-414 and 2/A-436 in addendum 5.

Question 297

Reference to detail 5 in drawing A-441. Are the wood blockages that form the eave made of pine covered by section 07 61 00?

Answer 297

No, see section 06 10 00.

Question 298

Reference to the specifications, section 10 22 27. This section mentions movable partitions in the West Wing meeting rooms, but they do not appear in the drawings. Please clarify.

Answer 298

See addendum 5.

Question 299

Reference to the specifications, section 27 51 17, article 2.5.2. This article mentions 18 manual chain falls. Do we need to provide lifting beams for the chain falls?

Answer 299

No, they are installed on anchors already in place.

Question 300

Do we need to make trenches for the slabs to pass and/or decommission pipes under the slab on the floor? If so, please indicate where.

Answer 300

See addendum 4.

Question 301

Will drawing A-437 be revised? Detail 6 A-413 is unclear.

Answer 301

Refer to addendum 3.

Question 302

In drawing A-430, details 9 & 10, who is responsible for the copper flashings and adhesive membrane: section 07 52 00 or section 07 61 00?

Answer 302

Section 07 61 00.

Question 303

In drawing A-430, detail 6, note 7-119 says: "Insulated steel beam covered using enamelled steel" and note 7-094 says: "20 oz copper." Can you clarify these notes?

Answer 303

Note 7-119 is modified for "Insulated steel beam covered with a copper 20oz cap".

Question 304

With respect to the fire alarm, all military buildings in Quebec are connected to Building 523 (Fire Hall) in Valcartier. The alarms come in on a Notifier ONYXWorks graphics computer set up in the Fire Hall at Valcartier. There is no mention in the specifications that this panel has to be connected. Fire alarm companies have to include in their price interfaces that communicate with the Notifier branch so that their panel can interface with the graphics computer. Please address the following point in the Addendum, i.e. does the fire panel have to communicate with the Fire Hall at Valcartier and, if so, specify that the fire alarm companies are to include in their prices the Notifier interface cards and the cost of integration work with the Notifier ONYXWorks graphics system.

Answer 304

Communication with the Valcartier central is not required.

Question 305

Reference to the specifications, section 05 50 00:

- a) Article 1.2.5: Who is responsible for work on the indoor and outdoor walkways? They seem to be included in the steel structure, but there are no details in the architectural drawing. Please clarify.
- b) Article 1.2.8: On elevation 2, between axis 6 and 9.1, on drawing A-703, note AC-2 is described on A700, but there are no design details. Please clarify.
- c) Article 1.2.9: Hooks and grommet plates for the scenography. Where are these articles in the drawings?

Answer 305

- a) Interior walkway by structure (05 12 23). Exterior walkway (duckboard) by curtain walls (08 44 13).
- b) Wall covered with metal panels, refer to drawings A-606 and A-612.
- c) Supplied by Electricity section 26 05 36. See sector west wing on ground floor on electricity plans.

Question 306

Reference to the specifications, section 05 51 29, article 2.9. Where are the details on what the ladders are made of?

Answer 306

Refer to addendum 4, A-611.

Question 307

Reference to drawing A-764, cross-section 2. Where are details on mounting the orifice plates (item 130)? Do we have to provide panel ends?

Answer 307

The plates must be secured with washers and apparent screws. Secure them on metal studs through sound insulation. Paint like perforated metal.

Question 308

Reference to drawing E507 – DALI lighting diagram. There is a network link to the Crestron system audiovisual cabinet. The Crestron control system can be configured with password-protected access levels (administrator, operator, client). The control system allows the following functions: temperature adjustment according to a set limit, lighting control with a dimmer and on/off switch, opening and closing of window blinds and divider curtain, audiovisual control using graphic display in the form of a drawing for the speakers, volume, zone, source and stage area.

- a) To make these various configurations, it is necessary to add a Crestron CP3N processor connected to the DALI diagram with the BacNET/BMS. Do we need to include the processor?
- b) We suggest that you increase the size of the touch panels from 7" to 10" to facilitate integration of various controls on the same page without their becoming too small to use. Do you want to replace the TSW-750 model with the TSW-1050 model?
- c) Can you clarify the type of motorized window shades? In section 12 21 23F, it says to provide a Somfy RS485 BACnet interface. On the DALI diagram, it says to provide a DALI converter to BACnet, which happens to be a duplicate because the MCU (lighting server) already controls the various elements in BACnet.
- d) Again for the blind controls, how many blinds or areas are to be controlled?
- e) Please indicate the number of DALI lights with the number of DALI ballasts in each light.
- f) Confirm the number of 0-10 Volt lights for which a 0-10 VDC DALI relay has to be installed in the ceiling.
- g) Note 10 in drawing E-002: Why is it necessary to have a DALI-DMX converter when a lighting control system can control DMX through BACnet? Each DMX light can be configured independently or in groups, depending on demand.

Answer 308

- a) Refer to addendum No. 3.
- b) Refer to addendum No. 3.
- c) DALI is required.
- d) Refer to indications on drawings E-212 and E-213 in addendum No. 3.
- e) Lighting fixtures are indicated on drawings. Refer to the list of lighting fixtures and to lighting drawings.
- f) For group control, DALI converters are indicated on drawings. Elsewhere, all lighting fixtures shall be DALI or with individual DALI converters.
- g) DALI converter is required.

Question 309

Question about the geothermal field. I would like to know the width and type of insulation used in work on the geothermal field? The drawings indicate that the thickness is 100 mm, but there is no mention of the width and type required. Please clarify.

Answer 309

See addendum 4.

Question 310

Roofing:

- a) Detail 2, page A-444: Who will be making the membrane and copper flashing for wall ME-10? Section 07 52 00 or section 07 61 00?
- b) In this detail, is it normal for the roofing membranes to stop at the base of the wall and for the wall to be sealed by the adhesive membrane? Does the flashing fold back on the membranes at the base of the wall, as in the magnified detail?

Answer 310

- a) Section 07 61 00.
- b) This detail will be modified by addendum.

Question 311

Reference to the specifications, section 23 57 33 – Geothermal heat exchangers.

- a) Who is responsible for digging and backfilling during the installation of pipes to the inside of the building for the geothermal wells? Usually, it is the general contractor, but is that the case for this project?
- b) Who is responsible for removing the sludge resulting from the geothermal well drilling? Usually, it is the general contractor, but is that the case for this project?

Answer 311

See questions 314, 343 and 382 for geothermal excavation.

Question 312

Reference to the specifications, section 23 11 23 – Facility natural gas piping, article 2.7 – underground piping. Who is responsible for digging and backfilling during the installation of natural gas piping buried outside the building? Usually, it is the general contractor, but is that the case for this project?

Answer 312

Refer to addendum 3.

Question 313

Reference to the specifications, section 02 65 00 – Removal of underground storage tanks.

- a) In addition to knowing if the digging and backfilling required to remove the existing underground oil tank will be done by the general contractor, if the soil around the tank is contaminated, will the decontamination work be done by the general contractor?
- b) Will the flushing and purging of the underground tank to be removed be done by the general contractor? What is the volume of the remaining oil in the tank?

Answer 313

- a) Those works are performed by the General Contractor.
- b) Those works are performed by the General Contractor – see answer 43.

Question 314

Are the costs associated with the excavation and backfilling for the horizontal geothermal network attributable to the contractor for section 23 57 33 or the civil engineering contractor?

Answer 314

To the geothermal Contractor. There are no Geothermal works included in the unit form for civil works (such as excavation for the geothermal system, insulation for pipes, recovery of excavating sludge, etc.). Coordination between the various subcontractors is required from the General Contractor; there are often deeper pipelines installed underneath the geothermal system.

Question 315

Section 23 57 33 – Geothermal heat exchanger

- a) Article 2.1.3: What do you mean by the following: "Threaded connections between the HDPE pipeline and the indoor metal network are prohibited"? Does it mean that you do not want any HDPE transition fittings to stainless steel, brass or other materials? Are the terminations before the plumber's supply manifold the responsibility of the drilling contractor?
- b) Article 2.5.5: You call for a 40% propylene glycol solution in the geothermal exchanger; will you accept the equivalent product by Recochem? Does the drilling contractor's responsibility go as far as the plumber's supply manifold?
- c) Article 3.2.2: What do you mean by the following: "The depth is calculated on the basis of the final level of the well with a minimal addition of 5 feet to absorb sedimentation and partial landslides"? Does this equal 145 metres + 5 feet?
- d) Article 3.2.7: Do we remove the drilling sludge by container off the work site? Will the water be pumped into the city's storm sewers?
- e) Article 3.4.6: What do you mean by the following: "survey results"?

- f) Article 3.6.6: What type of analysis do you want? Why do we have to make a new analysis every time we drill? Who will check whether the group recipes have been followed?
- g) Article 3.6.7: Normally, we should not need to measure the piping with a plumb bob. When we do the hydrodynamic tests, we will automatically know if the loop lets the required amount go through. Do you still want the contractor to measure the piping?
- h) Article 3.7.4: How is the responsibility of filling the ducts with water-antifreeze mixture defined? The plumber is responsible for filling the internal network while the drilling contractor is responsible for filling the external network?
- i) Article 3.10.1: What do you expect the drilling contractor to do when you say "cleaning"?

Answer 315

- a) Addendum to come.
- b) Addendum coming. Recochem is an equivalent product.
- c) Addendum coming.
- d) Bid as specifications provided. Addendum to come.
- e) Survey results indicate the drilling report of each geothermal wells.
- f) Bid as per specifications provided. Addendum to come.
- g) Bid as per specifications provided.
- h) Bid as per the specifications provided.
- i) Bid as specifications provided.

Question 316

Who is responsible for installing the insulation for the horizontal exchangers? If it is the drilling contractor's responsibility to supply and install the insulation, will this contractor have to insulate the entire network, as shown in the typical detail in drawing M-310, or only the piping inlet into the building?

Answer 316

See addendum 4.

Question 317

Apart from section 23 57 33, are there any other relevant sections for the drilling contractor?

Answer 317

See appendix H of the specifications.

Question 318

In detail 4/465a – ridge cresting, the dimensions do not correspond to the wooden structure plans. Will the copper details have the dimensions shown in the architecture plans, or will they be adapted to the dimensions of the structural elements?

Answer 318

Refer to addendum 2.

Question 319

Section 08 44 13, curtain walls, subsection 2.9.3.2.4: do the painted plugs also have to be stainless steel, or can they be painted aluminum?

Answer 319

They can be painted aluminium.

Question 320

Elastomer membrane roof: Who is responsible for the copper flashing for the elastomer membrane roofs? For example: detail 4 page 432, detail 2 page 432 and detail 1 page 431b, etc. Is it the responsibility of the sheet metal contractor in section 07 61 00 or that of the roofing/membrane/waterproofing contractor?

Answer 320

Refer to sections 07 52 00 and 07 62 00.

Question 321

In drawing A-430:

- a) in detail 2, we are asked to install copper on a Fesco 1" support panel, which itself is installed on insulation. Should we not use a firmer base to create a durable structure?
- b) in detail 3, can you clarify note 7-055 "waterproofing membrane"? Which membrane? Who is responsible for it?
- c) in detail 3, can you specify who is responsible for the parapet covered with copper sheet? Section 07 52 00 or section 07 62 00?

Answer 321

- a) This detail will be modified by addendum.
- b) This detail will be modified by addendum.
- c) Section 07 61 00.

Question 322

Refer to answers #38 and #58 in amendments to the tender notice. If we correctly understand your answer to question #58, the supply and installation of devices or equipment in sections 23 73 10, 23 82 19 and 23 84 13 are the responsibility of the ventilation subcontractor (V), while only the connection of these devices and equipment in heating/cooling networks is the responsibility of the heating and cooling subcontractor (Rc). Is this the correct interpretation? Please confirm.

Answer 322

Yes.

Question 323

Refer to answers #16 and #57 in amendments to the tender notice. If we correctly understand your answers to these questions, boiler chimneys are the responsibility of the ventilation subcontractor (V), because the M-400 series drawings are his responsibility, while the generator and water heater chimneys are the responsibility of the plumbing subcontractor (Pb) because the M-100 series drawings are his responsibility. By the same logic, we have concluded that the gas air heater chimneys are the responsibility of the ventilation subcontractor (V) because they are shown in the M-400 series drawings, which are the responsibility of ventilation. Is this accurate? Please confirm.

Answer 323

Yes.

Question 324

In section 25 30 02 of the specifications, subsection 2.12: the specifications do not mention where we can use the FT-6 cable without a duct.

- a) Please specify where we can install cables without a duct.
- b) If the architecture must remain intact, how can we install cables for local controllers, sensors, valves, MS/TP communication, etc.?

Answer 324

- a) All cables running surface shall be concealed in a hidden conduit. Only the West building (New construction) shall be considered to conceal the cables in the walls and ceiling plenum.
- b) 4 possible situations:
 - Into new walls when is possible;
 - Some rooms have an architectural finish (dados) integrating the distribution of many services;
 - Into suspended ceiling;
 - Where the 3 previous situations aren't possible, surface conduits.

Question 325

Would it be possible to get more information in connection with answer #21 (questions and answers, amendment 005 to the tender notice)? It is still unclear.

Answer 325

In premises with gypsum finish, recess local control panels into the wall (no local control panels on surface). The front panel has a framework to cover the joint between the casing and the wall.

Question 326

Please clarify the type of Ethernet switch. Is it the same type as for security?

Answer 326

Ethernet switch for security systems is described in item 2.4.4 of section 27 10 05. Ethernet switch for other systems is described in item 2.4.3 of the same section.

Question 327

Please clarify the location and exact number of occupancy sensors.

Answer 327

Presence detectors are indicated on drawings.

Question 328

Should the copper covering in wall compositions ME-10 and ME-14 be done by the bitumen membrane roofer or the copper roofing roofer?

Answer 328

Section 07 61 00.

Question 329

In drawing A-767, details 3, 4 and so on, what is the dotted-line membrane between the acoustic insulation and the expanded metal in enameled steel?

Answer 329

This is the standard film of black fibreglass panel provided without fabric covering, see section 09 80 00, art. 2.1.2.

Question 330

What is the composition of screen wall #4/A765? It appears to have 25 mm insulation with covering according to section 14 of A-767. Please clarify.

Answer 330

Black fibreglass panel, provided without fabric covering, covered with painted moulding in enameled steel.

Question 331

In drawing A-101, in the central building, it is difficult to see where we must have a fire separation if needed because there are dark lines in certain partitions. Could you clarify?

Answer 331

In the main building, there is no fire resistance on the perimeter of the multifunctional room and neither the lobby. There is one on the perimeter of the elevator.

Question 332

Metalwork:

- a) In section 05 50 00 of the specifications, subsection 1.2.5, you include the manufacturing and installation of interior and exterior steel walkways within the responsibilities of the metalwork contractor, but the walkways are included in the structure plans. Please clarify who is responsible for the steel walkways.
- b) In section 05 50 00 of the specifications, subsection 1.2.16, you indicate the supply of stainless steel supports and brackets for installation of copper sun screens, to coordinate with section 08 44 13. When you look at section 08 44 13 of the specifications, subsection 2.6, everything that is not part of the steel structure is described, so no metalwork intervention appears to be required. Please clarify.
- c) For the expanded metal in drawing A-765, it is indicated that the thickness is 30 mm. According to a manufacturer, there is nothing available at that thickness. The closest would be 7-lb expanded metal, .750 thickness, with 60% open area. Please confirm your requirement.

Answer 332

- a) Steel walkways in multifunctional room and exterior walkways of the West wing are detailed on structural plans. Platforms in mechanical rooms are by 05 50 00. Addendum to come.
- b) The supply of items listed in 1.2.16 is not by 05 50 00 Fabricated metals. Stainless steel is supplied and installed by section 08 44 13 and drawn by structure. See addendum to come.
- c) Metal thick is 3mm as seen on specifications. Expanded metal panel has an overall thickness of 30mm.

Question 333

Questions regarding BSDQ:

- a) Has BSDQ been notified that two types of masonry will be used: heritage masonry and contemporary masonry?
- b) Will they be under two project numbers at BSDQ? Will two separate bonds be required to bid on two types of masonry?

Answer 333

- a) Yes, BSDQ has been informed.
- b) Contractors must verify with the BSDQ.

Question 334

Vertical anchors (axis H): what is the specifications' section number responsible for these anchors?

Answer 334

See sections 04 11 00 and 31 39 10.

Question 335

Will the details to come (like in drawings A-435a and A-435b) be provided before the tender closing at BSDQ?

Answer 335

Refer to issued addendums.

Question 336

Has a replacement brick been identified? If so, please specify the model.

Answer 336

Bricks properties are described in section 04 03 31.

Question 337

Mortar testing report: do the tests have to be performed by a specialized laboratory?

Answer 337

Yes, a specialized laboratory is required.

Question 338

Demolition: is the mason responsible for demolition and/or new openings in walls (see notes 9 and 13 to the demolition plans)?

Answer 338

Since this is a heritage building, all the new openings in the existing masonry walls (including the openings identified on the demolition drawings, notes 9 and 13) are to be done by the specialized heritage masonry sub-contractor and not by the demolition sub-contractor.

Question 339

Is the general contractor responsible to recover the stone cladding for reuse (see note half wall in drawing A-011)?

Answer 339

No, these works must be executed/performed by the masonry contractor.

Question 340

How do we determine whether the general contractor or the mason is responsible for demolishing masonry elements (e.g. A-010 note 6 stone foundation wall)?

Answer 340

Since this is a heritage building and as a precaution to protect the components that do not need to be demolished, all the masonry elements to be demolished and identified to be recuperated are under the responsibility and must be performed by the heritage masonry sub-contractor. The only masonry components which can be demolished by the demolition sub-contractor, are the foundation walls (below grade) of the remaining wall at the south and the southwest corner of the Drill Hall. All the stones above grade of these components (low walls) shall be first dismantled and recuperated by the heritage masonry sub-contractor (see sheet A-011).

Question 341

Telecommunications work:

- a) Refer to section 27 10 05, subsection 1.3.2.1:
 - 1) Regarding the *network for data outlets installed in the central building*, should we really submit bids for data outlets in the central building only, and not take outlets in the east and west wings into account?
 - 2) Should we submit bids for all data outlets, or only A/V outlets?
- b) Refer to section 27 10 05, subsection 2.3 vs 2.4: Should we terminate UTP cables on terminal strips or patch panels?
- c) Refer to section 27 10 05, subsection 2.4.5: Where should we install the wall mount 19-inch rack cabinets, capacity 10U?
- d) Refer to section 27 10 05, subsection 3.2.4: *Coil spare cables and store in ceiling space in zone*. Where is it specified to leave spare cables and cable in zone?
- e) We have not found any specifications regarding needs in telecommunications rooms (cabinet, cable management, vertical, power bar, etc.)... Should equipment for telecommunications rooms be included in our bid?
- f) Ref. drawing E-507:
 - 1) In the audiovisual and computer diagram, A/V data outlets connected to the left of the AV-002 console require cat6 cable, as opposed to all the others, which are cat5e. Which category of cable is required for A/V outlets?
 - 2) In the audiovisual and computer diagram, patch panel ports are required to be RJUS... What is this type of port? Is this a typo that should read RJ45?

Answer 341

- a) Network dedicated to data outlets in the central building is the one related to the audiovisual systems (data outlets with indication A/V).
- b) Data outlets with A/V indication are included in the scope of works. For the remaining outlets, empty conduits and boxes are to be provided.
- c) Patch panels (refer to upcoming addendum).
- d) It is not required (refer to upcoming addendum).
- e) No, equipment in telecommunication rooms are not included in the scope of works.
 - f-1) For A/V data outlets, category 5e is required. Refer to upcoming addendum.
 - f-2) It is RJ45 (typing error). Refer to upcoming addendum.

Question 342

Refer to section 22 30 05, subsections 2.1.7.2, 2.1.7.3 and 2.2.7. These subsections require (as shown in the drawings) an expansion tank (tag # REX-ECD) in the domestic hot water system. No specifications for model or size are indicated. Please provide specifications for this expansion tank.

Answer 342

Refer to upcoming addendum.

Question 343

Geothermal work:

- a) Which division is responsible for excavation and backfill? There is nothing indicated in section 23 57 33 or section 31 23 33.01. Please clarify.
- b) Who is responsible for disposing of the asphalt involved in the geothermal work, and who will resurface the asphalt after the work is complete? Please clarify.
- c) Was Info-Excavation done at the geothermal well sites? Please clarify.

Answer 343

- a) The responsibility is that of the geothermal contractor. If the geothermal contractor wants to sub-contract the work to the excavation contractor, that is his prerogative but he must include the work in his mandate.
- b) The General Contractor via the excavation sub-contractor.
- c) All Contractors that perform excavation work are responsible in making their own requests towards INFO-EXCAVATION before beginning any excavation work.

Question 344

Specification section 27 10 05: according to the table of contents, this is at the electrician's expense. However, subsection 1.3.2.3 of that section refers to the network for security systems. The system is supplied and installed by other contractors, including the cables, as indicated in sections 28 13 00 and 28 23 00 subsection 2.10.3. Division 26 is responsible only for empty conduits. Please clarify the situation.

Answer 344

IP network for security systems required in section 27 10 05 concerns the backbone between the security equipment rooms and the patch panels. Cabling between patch panels and components is included in the scope of physical security works, and empty conduits is included in the scope of electrical works. Refer to upcoming addendum.

Question 345

In drawing A-510, elevation N14, a note reads "opening in facing covered with plywood. Produce and install new rockface stones type 1." Could you inform us of the rock surface to be changed?

Answer 345

1.5 square meter.

Question 346

Questions associated with structural plans involving the framework:

- a) Section 2/S-587 in drawing S-110b on axis E, H and 5.9 does not correspond to the details of section 2 in drawing S-587. Please clarify.
- b) Is the structural slab in the central part of drawing S-110b anchored to the existing wall? If so, what detail should be applied?
- c) In drawing S-110b, axis 6-A.9, there is type M footing, but there is no M footing in the footing table. Please clarify.
- d) In drawing S-461, axis B.7-5.9, section 2/S-472 does not correspond to the details in section 2 in drawing S-472. Please clarify.
- e) In drawing S-482, details 1 & 2, there is missing information for the framework: "see ____". Please clarify.
- f) Who is responsible for rock anchors? Is there a section of the specifications specific to rock anchors?
- g) Are there rock anchor details in sections 1, 2 & 3 in drawing S-585?
- h) For the opening closing detail in drawing S-903, where should the detail be applied?
- i) For the concrete wall junction detail, where should the detail be applied?

Answer 346

- a) See drawings.
- b) No.
- c) Addendum to come.
- d) Everything is there.
- e) See plant set 820 in addendum.
- f) See addendum 3.
- g) No.
- h) This is a typical detail, possibly using some opportunity in the existing.
- i) This is a typical detail, possibly using some opportunity in the existing.

Question 347

Do sketches 3 and 4 on plan sheet A-454, issued in addendum A-02, replace details 3 and 4 on page A-454 respectively?

Answer 347

Yes.

Question 348

In the windows table issued in addendum A02, the following windows are identified under condition B (existing windows to be demolished, construction of new windows):

- N-4-4
- S-2-1 @ S-2-14
- S-3-1
- S-4-1 @ S-4-3
- O-3-1 and O-3-2
- O-4-1

However, these seem to have already been demolished. Therefore, is it correct to assume that we just need to install new ones? Please confirm and change the condition if necessary.

Answer 348

Many of these windows have been demolished, but for some of these, there is still components to be demolished. So they are classified condition B.

Question 349

Questions regarding reinforcement:

- a) Concrete base on plan S-110c, axis 26 of C.6 to B.5; the detail of the base (2/S-681) does not show reinforcement. Only "concrete base" is indicated. Is that correct?
- b) For the shear walls in the West Wing (S-110c), there is no section detail of reinforcement. Should we rely on section 4/S-582 for the reinforcement for all of the shear walls?
- c) There is a portion of the wall without a section on plan S-110c, axis 22, between F.4 and F.6. Should we plan for reinforcement?
- d) For the fibreglass reinforcement in the front turrets (plan S-111b), would it be possible to have more details on the connecting elements? And is vertical reinforcement required? Is that reinforcement to be used from the ground level to the 3rd level?

Answer 349

- a) For CONCRETE BASE shown on section 2 / S681: 15M, 400 o/c horizontal and vertical on perimeter of base with 15M dowels, 400mm spacing.
- b) *West wing: Concrete walls at interior braced frames: Rebar similar to section 12 / S-680.*
- c) See addendum 1.
- d) See addendum 1.

Question 350

Detail 4/465a is not consistent with detail 3 and 4 /454. Which is correct?

Answer 350

See Addendum 2, revised sheet A-465a and sketches A-454-1, A-454-2, A-454-3 and A-454-4. Sketches A-454-3 and A-454-4 of this addendum replace detail 3 and detail 4 of sheet A-454.

Question 351

Questions regarding lumber:

- a) The details on the wood blocking (for example on detail 4/A454, cap 500*126) are identified as 2 raw pieces with the requested dimensions. Continuous or not?
- b) Would you like raw lumber or an assembly of pieces? According to standard wood dimensions with or without plywood? Or still respecting the finish dimensions requested by the architect?
- c) Can the finish dimensions requested by the architect be modified based on finish dimensions for standard wood sold on the market?
- d) The roof trusses for the roofs and the elements above (dormers, etc.) are not consistent with structural requirements. Please coordinate all documents for consistency.
- e) You are asking for engineered wood. There are many types of engineered wood of various makes, dimensions and finishes. Which would you like?

Answer 351

- a) See answers b), c), d), e).
- b) Raw wood.
- c) Follow dimensions on plans.
- d) Pieces of structural carpentry wood shown on architecture plans are for information. Refer to structure plans for dimensions of structural carpentry wood.
- e) Refer to section 06 10 01 for types of engineering wood to use.

Question 352

Questions regarding shoring and bracing:

- a) Could you indicate the loads (live, dead, seismic, wind, etc.) that the following can support:
 - all existing wood floors
 - all existing masonry walls

Similarly, could you indicate how you have planned the design of the work in relation to the equipment to be used (or not to be used) in the execution of the work?

That information will help us determine whether we will need to support the floors and walls and plan our approach.

- b) In the central part: what is the plan for bracing the masonry walls during the masonry work, during the wood structure work, and after the wood structure is erected?
- c) Please validate all bracing in the standard roof trusses and in the engineered wood roof trusses to indicate the kind of wood and the dimensions.

Answer 352

- a) On all floors, services loading is 4.8 kPa. For temporary's interventions, we recommend using a portion of that services load and the totality of the dead load, necessarily with the required weights. The dead loads, as required for the design of temporary support structures, should be evaluated on a case by case basis depending on the wall sections provided to the structural and architectural plans. For the design of temporary works, we allow free choice to the contractor, provided of course that it meets the requirements listed in Section 02 41 16 and general notes.
- b) Bracing masonry walls for masonry work is expected to be in accordance with the intervention schedule provided in the architectural plans. The Contractor shall ensure the stability of the walls or through temporary supports or with a specific sequencing of work. For the erection of the timber, no temporary bracing is required if the masonry wall repair work is done.
- c) Temporary bracing required for the erection of the main lumber is part of the construction methods and is the responsibility of the contractor. The permanent bracing of this structure is already provided to the plans. For light-frame wood trusses, a clarification was added in addendum 4.

Question 353

Question regarding telecommunications work:

If the facilities in the telecommunications rooms are part of the call for tender, should we plan for backbone cabling for those rooms (connections from the main room to the secondary rooms)? If yes, what are our needs (copper, fiber optics, quantity, etc.)? Please specify.

Answer 353

Installations in telecommunication rooms are off-contract. However, empty conduits and boxes are included in the scope of electrical works.

Question 354

Questions regarding insulation:

- a) For the mechanical insulation work, there is no specified insulation for the equipment. Should we insulate it or not?
- b) There is also no insulation specified for all piping types such as geothermal, dual temperature, water tower, etc. Should we insulate them or not?

Answer 354

- a) No equipment insulation is required.
- b) Addendum to come.

Question 355

In the main mechanical room in the basement of the central sector, there are several diameters missing for the pipes for many of the systems and they are also not on the systems diagram. Please provide that information.

Answer 355

See addendum 3.

Question 356

Reference to specification section 23 07 15:

- a) Is the generator silencer insulated? In what way? Whose responsibility is it?
- b) Are the heat pumps, exchangers and tanks to be insulated?
- c) Are the chillers to be insulated? By whom? With what type of insulation?

Answer 356

- a) Generator silencer is pre-insulated. Refer to item 2.9 of section 26 32 13.01.
- b) Addendum to come.
- c) Addendum to come.

Question 357

Reference to section 23 07 13

- a) Are we supposed to insulate 10 linear feet or all of the exhaust ductwork? Possible contradiction in the specification (table 3.4.1).
- b) Are the cooking hoods to be insulated with a regular 10 pl insulation or another type of insulation not mentioned in the specification (for example firemaster)?
- c) Are the supply diffusers-plenums insulated acoustically or thermally? If yes, by which contractor?

Answer 357

- a) As mentioned in article 3.4.1, for a distance of 10 ft from an exterior portion or according to the other described criteria.
- b) Addendum to come.
- c) See article 3.4.1 of section 23 07 13.

Question 358

Could you provide information on the variable frequency drives? There are nearly 60 variable frequency drives and starters on the drawings and we have no idea what is to be supplied by the division 23 and division 26. Please provide a starters table.

Answer 358

Motor starters are provided by electrical division and are indicated on the electrical plans and the line diagram. VSD are provided by mechanical division (refer to legend on drawing E-001 for the abbreviation FIM).

Question 359

Would it be possible to have an elevation drawing of the frame of the curtain walls identified in plan view MR-9 on drawing sheet A-110A?

Answer 359

See 3/A-429

Question 360

Elevators:

There appear to be differences between the specifications and the drawings. Please indicate which to follow with respect to the following:

A. Elevator #2, twin direct:

- 1) What is the height of the cabin? The doors are 78" high. I believe that the existing overhang will suffice.
- 2) The specifications indicate a distance of 8'-0" (difficult to judge the distance from the drawings). Please confirm the distance?

B. Elevator #4, twin direct:

- 1) The specifications indicate that pit=5'-0" and max. overhang=16'-2 1/4" (drawing A-616 indicates pit=6'-6" and overhang=14'-10 1/4"). Both are possible, but which is correct?
- 2) The specifications indicate that the doors are 42"x84" CO (drawing indicates 48" CO)?

C. Elevator #6, MRL:

- 1) The specifications indicate that the pits are 9'-6" x 7'-0" (drawing A-616 indicates 9'-5" x 8'-0"). The drawing appears to make more sense. With front and rear doors, there is approximately 27.5" of difference between the depth of the pit and that of the interior cabin, which means that the depth of 6'-0" for the interior cabin is likely too high.

- D. For elevators #1, 2 and 3, can one assume that the height of the cabin is standard at 8'-0" high?

Answer 360

- A. 1) Cabin height: 2440 mm, door height: 2134 mm.
2) See drawing 9/A-615: travel 2435 mm.
- B. 1) See section 14 20 06- Elevators ADD (date: 2015-02-13) - dimensions were modified by addendum 4.
2) Doors: 1219 mm L. x 2134 mm H.

- C. 1) Refer to 7/A-616 for dimensions: 2870 mm x 2408 mm; specifications will be revised.
- D. Yes.

Question 361

Validation of the answer of question 58 of amendment 005:

The supply of the equipment in sections 23 73 10, 23 82 19 and 23 84 13 are the responsibility of the (V) Ventilation division and connection thereof is the responsibility of the piping work (HC) division? Please confirm.

Answer 361

Same question as question 322: YES.

Question 362

Reference to the table on drawing sheet M605 (rev. 15/02/09) hot water unit heaters and section 23 82 39 of the specifications. In the specifications there is one description of gas unit heaters. There is no mention of hot water unit heaters. Please validate and correct.

Answer 362

See addendum 4

Question 363

For sections 2, 4 and 5 on sheet drawing S-586, are these walls anchored with the existing wall on S-110b? If so, what type of anchors? Please provide details.

Answer 363

No. These walls are continuous through the openings

Question 364

For the 3 details of the base types of bases for the equipment: inertia, floating and equipment bases on drawing S-901, would it be possible to have a table of the quantities and dimension of the bases, since on the mechanical and architectural drawings the bases are difficult to see and very difficult to identify.

Answer 364

See answer 75

Question 365

Section 10 26 00, item 2.2 of your specifications state that the PETG shall be 32 mm thick (I do not believe that that thickness is available on the market). Further down, in item 2.1.2., it states that the PETG shall be 1.98 mm (this must be the correct size). Please clarify.

Answer 365

Article 2.1.2 of section 10 26 00, should read 32mm depth, and not thickness. Thickness is 1.98 mm.

Question 366

Who supplies the hardware for the aluminium doors?

Answer 366

Section 08 71 00, as indicated in specifications.

Question 367

Would it be possible to provide more details on the sun screen? For example: fastening at the base and middle, grating, etc. Only details on the top are provided in the documents.

Answer 367

Refer to structural drawings (S-698).

Question 368

Question related to Question/Answer #103. The table plan M603 was redone in addendum M02, however, we still do not have the references for the following items: J-4, RS-3, P-1, B-2, RS-4. Please provide this information.

Answer 368

See addendum 4

Question 369

We would like to visit the site again, both the interior and exterior, with our superintendent. We are simply seeking a tour of the sites, and will not ask any questions. The aim is to familiarize our project delivery team to validate our overhead costs and our schedule. Would this be possible? How would we proceed??

Answer 369

No visit of the inside of the building is permitted. However, contractors have access to the building's exterior by remaining outside the perimeter security fence.

Question 370

With reference to detail 8-426: who supplies the two blocks between the continuous hinge?

Answer 370

08 44 13, see addendum 4.

Question 371

With reference to detail 9-426: who supplies the H-shaped plate numbered 5-018?

Answer 371

08 44 13, see addendum 4.

Question 372

Reference section of specifications 23 21 14, page 6 of 8.
You mention a 4,700-litre tank, 1500 diam. x 2500 high. If we were to use the volume, the tank would be 1524 mm diam. x 2845 mm high. If we were to use the dimensions, the volume would be 4,100 litres. Which should be go by?

Answer 372

See addendum 4.

Question 373

Specifications section 33 56 13, page 4 of 6.

You request a ULC tank in accordance with standard S-601. Since the tank is inside, the applicable standard according to B-139 would be ULC S-602.

If you use standard S-601, we will have to install an emergency vent on the outside connected by a 4-inch tube. Please specify whether we should be according to standard S-601 or S-602.

Answer 373

Oil tank to ULC S-602 is required. Refer to addendum coming.

Question 374

Question regarding regulation work:

- a) On plan A-423, detail 15: how many dowels per piece of granite marble are required?
- b) Drawing A-410, item 9-010, states granite step on a bearing partition. Would it be possible to clarify if this part of the work is under the responsibility of masonry and not stone paving under outdoor design? The term "step" is also confusing.
- c) On drawing A-009.1, detail 5, vertical-positioned granite under the type E border: will this be supplied and installed by the masonry division?
- d) On drawing A-009.3, details 7, 8 (for example): who is to supply and install the granite that is to be installed vertically?
- e) On drawing A-411a, in the legend, it states granite, such as Polycor. Must we use this supplier?
- f) On drawing A-410, item 9-021 granite block for the curbs: which drawing contains this item?

Answer 374

- a) Two (2) studs by piece on the edge of the pedestrian bridges.
- b) Stair granite steps are in section 09 63 40.
- c) And d): All stone elements (siding and stone paving) that require mortar, sealant and if specified, anchors specialty are under the responsibility of the " masonry ".
- e) No, refer to specifications for granite types.
- f) See note 7 on sheet A-506.

Question 375

Questions about the UPS:

- a) Regarding the warranty: should we include a warranty on parts AND labour for the UPS as well as for the battery bank for a period of 5 years?
- b) You request a UPS with 3x10kW N+1 (+10kW redundant) and the unit to have an ultimate capacity of 40kW N+1. For certain UPS models, the modules are 15kW so 30kW N+1 (2 modules of 15-kW + 1 redundant module of 15 kW) but to comply with 40kW N+1 it would be in our case 45kW +1 redundant module. Have you anticipated the electrical requirements to connect such equipment?
- c) What interrupting capability is required? 25, 40, 65 kAIC?
- d) You state that the departmental representative will attend the factory testing. Does the representative intend to attend the tests, and will we need to cover the costs? There are fees for special security at the plant as well as travel expenses and subsistence. Would a manufacturing standard test report not be enough?
- e) In the specifications for the UPS and battery bank, you mention checking the specific density of the electrolyte of the battery. It is difficult to test such density in a VRLA battery. Besides, there are several items in the battery specifications applicable to a wet battery rather than a sealed VRLA battery installed in cabinets. Validation of the specifications is required.

Answer 375

- a) Product warranty terms shall be in compliance with all requirements indicated in the General Conditions. Item 1.7 of section 26 33 53 concerns the prolongation of the basic warranty duration.
- b) Yes.
- c) The UPS is supplied by a 75 kVA transformer.
- d) Assistance to factory tests is kept to the discretion of the Departmental representative. Travel and subsistence fees are assumed by the later. Special safety fees and all other factory related fees to be assumed by electrical division. When the Departmental representative decides to assist to factory tests, contractor shall make all arrangements with the factory to provide access to the Departmental representative or his delegated person.
- e) Verification of electrolyte relative density is not required. Accessories related to wet batteries are not required.

Question 376

Mechanical question:

- a) In the table of contents (section 00 01 10) there is a Commercial Kitchen Hoods section bearing number 23 38 13 but this section is referred to 23 83 13 in the HVAC specifications. Please correct this incorrect reference.
- b) In section 23 83 13, there should be requirements related to section 11 40 10. In fact, in item #46 section .5, there is a note that could have a significant impact for the ventilation sub-contractor considering the equipment provided by the contractor in section 11 40 10. Please validate.

Answer 376

- a) Addendum coming. In the header, we should read 23 38 13 instead of 23 83 13
- b) Addendum coming

Question 377

Ref: doors, frames and hardware, drawing sheet A-720, there is missing information for some openings:

- a) #100-05A, S100-27, no information for this opening.
- b) #100-15J and 100-15K, 100-48, 100-52B, 100-52C, 100-52D, 100-52E, 100-70, 400-10, S100-02, S100-15A, S100-18c-A, S100-18c-B, S100-27, S100-45, missing corresponding hardware set.
- c) #100-52, 100-54A, S100-30B, S100-31A, S100-31B, missing door type.

Answer 377

- a), b), c) refer to addendum 3

Question 378

Civil:

- a) Under which bid item on the form will the sidewalk slab in the area near the bike shed be paid?
- b) Can you identify borrow pit for granular coatings?
- c) What type of Mira-Drain is to be installed around the foundations?
- d) The geothermic section shows insulation under the piping that refers to the civil section. Is this insulation required?
- e) Must the 3H:1V slope be adhered to where the well is located or only in the main trench?
- f) For the geothermic trenches situated in the bedrock, are the 3H:1V sloped required?
- g) Should we plan on adding clean-outs for the drain outside the building foundation wall? If so, which detail and number are we to follow?

- h) Following the release of two foundation wall faces on the exiting building, will there be work done by the mason to strengthen or make changes to the foundations?
- i) Will the outside foundation wall be cleaned and by who before the cementitious product, insulation, etc. is put in place?

Answer 378

- a) This question has already been answered – see answer 106.
- b) Refer to excavation contractors in the area.
- c) See architecture documents.
- d) See addendum 4.
- e) See section 31 23 33.01
- f) See section 31 23 33.01
- g) See answer 137.
- h) See architecture documents.
- i) See architecture documents.

Question 379

Questions related to section 08 44 13 – Curtain walls.

- a) In item 2.9.3.2.4, shall the painted plugs also be made of stainless steel or can they remain painted aluminium?
- b) Aluminum panels, item 2.1.1.5 – would it be possible to be more specific with respect to the panels that are referred to as "near bridge entrances"?

Answer 379

- a) They can remain high performance enamel painted aluminium.
- b) On porch arches on axis G and H, between axis 4 and +/- 4.7. On exterior lobby arches on 5.1 axis between axis p1 and p2 and on axis 5.1 between p8 and p9. See details on sheet A-426; detail1 sheet A-427 and detail 2, sheet A-428 of addendum 4.

Question 380

Are there restrictions for the drilling of rock (vibration, percussion, etc...)?

Answer 380

Yes, precautions must be taken, especially for drilling near existing masonry walls. However, as the depth to achieve is not significant and the surface rock is friable, we do not think that drilling will be complex.

Question 381

The support piles in the rock will have to be at 18" (center of the pile) of the existing foundation walls, this being the minimum possible with the machinery. Is this acceptable to PWGSC?

Answer 381

The structural system allows some adjustment, but the piles will have to be closer to the existing masonry walls. The ideal distance between the side of the drilling and the masonry wall should be 6 inches.

Question 382

Geothermic:

- a) Is the excavation of the geothermal wells the responsibility of the general contractor?
- b) As for the asphalt, will it be recovered or disposed of? If it is to be disposed of, do you have a particular designated site?
- c) With respect to the backfill, what level is required? Who is responsible for the parking lot structure? What is this structure?
- d) In terms of the surplus excavation material, can we leave it at the site for another use by the general contractor? If we are to dispose of it, is there a pre-determined location?
- e) For the fill (up to the level of the infrastructure), if the type of material in place is appropriate, can we reuse it?

Answer 382

- a) No, it is the responsibility of the geothermal contractor.
- b) The asphalt removal, as well as other surfaces' removal are shown on the Civil and Landscaping plans.
- c) It would be advantageous to consult and consider the Civil and Landscaping plans. The geothermal contractor must backfill to the projected land finished level (see Civil and Landscaping plans). That being said, a good coordination will avoid duplicating this work.
- d) It would be advantageous to consult and consider the contaminated soil directives in the plans and specifications of the Invitation to Tender. If the surpluses are needed in the final landscaping of the project, the General Contractor should consider keeping them. For the disposal, it is your responsibility to find a disposal site at your charge in conformity with the directives in the plans and specifications.
- e) Yes, according to the tender backfilling specifications' directives (namely for the management of contaminated soils). The PWGSC-mandated laboratory will control the quality of the backfilling work.

*** All other terms and conditions remain unchanged ***