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SOLICITATION AMENDMENT
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Title - Sujet Reconst. Manège militaire Québec	
Solicitation No. - N° de l'invitation EE520-151410/B	Amendment No. - N° modif. 013
Client Reference No. - N° de référence du client EE520-151410	Date 2015-02-26
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	
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Solicitation No. - N° de l'invitation

EE520-151410/B

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

EE520-151410

Amd. No. - N° de la modif.

013

File No. - N° du dossier

QCM-4-37219

Buyer ID - Id de l'acheteur

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CCC No./N° CCC - FMS No/ N° VME

AMENDMENT 013

Content of amendment 013:

1) Questions and answers #383 to 452.

1) QUESTIONS AND ANSWERS

Question 383

Should specification sections 27 51 16 and 27 51 17 not be the responsibility of the physical security division? That contractor is familiar with types of wiring and materials required. Only the equipment is supplied by the public address supplier, but the electrician is not aware of the wiring required. Please clarify.

Answer 383

Both sections concern audiovisual equipment and systems for scenography and are completely independent of the physical security systems.

Question 384

CTL panels are to be used to reinforce the dormers in the main truss, however, there are no specifications indicated for CTL in this location.

Can engineered wood, such as LVL, PSL or even Glulam be used?

Answer 384

All required information is included in previous addendums.

Question 385

In plan A-006, the section under the bridge, can you specify which area requires lighter and which area requires darker pavers? It is not clear on the plan and the two types of pavers are not the same price.

Answer 385

The hues of the types of paving stones must be different to the plan. It may be that the impression does not give good results. The east-west pavement bands are light gray, therefore for light pavement. The north-south band is dark, so for darker pavement.

Question 386

In the sketch on page A-110a issued in Addendum 03 of Amendment 006, you indicate that MF-19 compositions are needed on the new foundation walls of the technical tunnel. This composition is not on the page of typical assemblies. Please specify the type of composition.

Answer 386

Composition is on the bottom right of the sketch issued at addendum 3.

Question 387

With reference to specification section 08 03 14, item 1.1.2.4., the back door of the East Wing appears as new in the door schedule (door 103-08B). Please clarify.

Answer 387

This door is new as specified in door schedule. See addendum 3.

Question 388

With reference to drawings A-470 and A-471, what are meant by following types of repairs in schedules: B.1 to B.4, G.1 to G.4 and I.1 to I.4?

Answer 388

As illustrated on sheet A-472, letters refer to windows components: B.1 to B.4 refer to casements, G.1 à G.4 refer to sash window and I.1 à I.4 refer to transoms.

Question 389

Reference: plan sheet A-004, south stairwell. This plan indicates "Saint-Sébastien" tiles of sizes between the 2 steps; however, on plan A-422, detail 4, it appears that there will be large pieces of granite in this location. Please clarify.

Answer 389

These are two different stairs. The south stair on Place des Voltigeurs is detailed on sheets A-004 to A-005 and A-007 while the 28 stairs at the south end of the bridge is detailed on sheets A-421a, A-422, A424 , A425. See addendum 3.

Question 390

With reference to plan sheet A-009.2, detail 4, east universal access ramp, should the tiling to be installed vertically on each side of the walkway be considered as masonry coursing and therefore the responsibility of masonry division?

Answer 390

This detail refers to "architecture" for the ramp. See details 9, sheet A -425 . All stone elements (siding, cap and stone paving) that require mortar, sealant and if specified, anchors specialty are under the responsibility of the " masonry ".

Question 391

Reference to plan sheet A-721:

- a) Doors 100-54B and 100-55 are P2 type. On sheet A721, P2 type does not exist. Could you provide details for door P2?
- b) Doors S100-29 and S100-34 refer to P4 type, which are Dutch doors. On plan sheet A741, the doors look more like type P7A. Please clarify.
- c) Doors 100-39C and 100-39D are 2440 mm × 2440 mm. In section 08 36 12, item 2.2.1.4, doors size is 2160 × 2440 mm. Which size is correct? Please confirm.

Answer 391

- a) Doors 100-54B and 100-55 are type P2A. See addendum 5.
- b) Doors S100-29 and S100-34 are type P7A.
- c) Doors will be 2160mm X 2440mm X 45mm. See addendum 5.

Question 392

With reference to Addendum A-03, specification section 08 71 00:

- a) Door S100-06 is in group 207. On plan A-721, S100-06 does not exist, but there is an S100-06A and S100-06B. Are both doors in group 207?
- b) Door 100-ESC4 is in group 218. On plan A-721, it is in group 219. Which is correct?
- c) Door 100-ESC9A is in group 226. On plan A-721, they are in group 301. Which is correct?
- d) Doors 100-ESC7 and 100-ESC8 are in group 234. It is indicated, however, that it belongs in group 214 on plan A-721. Which is correct?
- e) Door 100-ESC9C is in group 235. On plan A-721 it appears rather that it should be in group 214. Which is correct?
- f) Door S100-10A is in group 239. On plan A-721, this door does not exist. Is it required? If so, please provide further details.
- g) Door S100-14 is in group 305. On plan A-721, this door does not exist. Is it required? If so, please provide further details.
- h) Door 100-37 is in group 402. On plan A-721, this door does not exist. Is it required? If so, please provide further details.
- i) Doors 301-01C and 301-24 are in group 403. On plan A-721, these doors do not exist. Are they required? If so, please provide further details.
- j) Door S100-12 is in group 403. On plan A-721, it is in group 400. Which is correct?
- k) For group 404, the power supply is requested from division 28, while it appears that there is no electrified hardware. Please clarify.
- l) Door S100-35B is in group 411. On plan A-721, this door does not exist. Is it required? If so, please provide further details.
- m) Door 100-51 is in group 500. On plan A-721, this door appears to be 100-51A. Please verify and clarify.
- n) Door 203-04B is in group 505. On plan A-721, this door does not exist. Is it required? If so, please provide further details.
- o) Door 303-01B is in group 505. On plan A-721, it is in group 605. Which is correct?
- p) The specifications indicate group 607A, while on plan A-721, all doors are indicated as group 607. Which is correct?
- q) Door 100-53 is in group 701. On plan A-721, this door does not exist. Is it required? If so, please provide further details.
- r) Door 203-16 is in group 705. On plan A-721, this door does not exist. Is it required? If so, please provide further details.
- s) Doors 100-18A, 100-19A, 100-21A and 100-22A are in group 809. On plan A-721, they are in group 307. Which is correct?
- t) Doors 100-14A and 100-23C are in group 810. On plan A-721, they are in group 306. Which is correct?

Answer 392

Refer to addendum 5 for all items.

- a) See addendum 5.
- b) See addendum 5.
- c) See addendum 5.
- d) See addendum 5.
- e) See addendum 5.

Question 394

With reference to plan sheet S-221B, in the Beams schedule, there are no details on beam P-173. Please provide the information needed..

Answer 394

Provide 5-30M bottom and 2-25M on top with 10M stirrups at 250 c/c.

Question 395

Detail 3/A-437 is still missing. When it will be available?

Answer 395

Refer to addendum 4.

Question 396

There are still some details missing on plan sheet A-435b. When will they be available?

Answer 396

Refer to addendum 4

Question 397

Specification section 07 11 13 does not appear applicable to any foundation detail. Please validate and confirm.

Answer 397

Applies wherever there is concrete wall with rebar underground when there is no sheet membrane specified. Applies to new concrete walls in the basement where one side of the wall is backfilled and the other side is inhabited. Bituminous dampproofing is applied on the backfilled side only. See new walls, on sheet A-110b, between the axis 6 and 21 and between the axes B to H. See new walls, on sheet A-110c, between the axis 22 to 24 and between the axis A.2 E. +/- 5. Apply Bituminous dampproofing, the application limit of the height up to 150 mm below the finished floor level.

Question 398

With reference to plan sheet A-300 of Addendum A-03. In the excerpt from plan sheet A-300, sketch 2, you added note 35. However, there does not appear to be any information describing this note on the plans. Please specify.

Answer 398

Clarification 10.2 of addendum A-03, on drawings A-300 / A- 301 / A-310 / A-311 / A- 312 should have been :

1. .2 Ajouter la note ~~33~~ **35** suivante à la légende / *Add following note ~~34~~ **35** to the legend:*
« OUVERTURE D'ACCÈS POUR CÂBLES DE RÉGIE EXTERNE, VOIR 3/A-438 / *EXTERNAL CABLE ACCESS HATCH, SEE 3/ A-438* »

Question 399

With reference to plan sheet A-301 of Addendum A-03. In the excerpt from this plan sheet, sketch 4, note 34 was added. However, there does not appear to be any information describing this note on the plans. Please specify.

Answer 399

Refer to clarification 10.2 on drawings A-300 / A- 301 / A-310 / A-311 / A- 312 issued with addendum 3.

Question 400

With reference to specification section 07 19 00, item 1.6.3., a primer is mentioned for the pipe trenches. However, when one refers to detail 4/A-766, there is no information about applying any primer type coating. Please clarify.

Answer 400

The coating is applied to the walls of the containment tank (see civil) and on the walls of the tunnel, between axis 4 and 5.1. See composition MF-19 added to the Addendum 4 and new details in Addendum 3 (sketch A-409-1, A-409a -2,3,4).

Question 401

With reference to detail 13/sketch 902-1, Addendum S03, will galvanization be required for the trench frames, L51X51X6.4 and anchoring?

Answer 401

No

Question 402

With reference to plan sheet S-522, what location does the detail of the type D stirrups refer to?

Answer 402

The information was renewed in addendum. The detail D is now on S-559. It is applicable to the 4 corners of the room to support the catwalk.

Question 403

With reference to plan sheet S-113B, it appears that cross sectional drawing 3/S-561, near axis 6, is incorrect. Which cross sectional drawing should apply?

Answer 403

Information has been provided in addendum 3.

Question 404

Reference: between axis 2.8 and 3/S-420. Will channels with anchors on each side or the concrete openings be required?

Answer 404

Yes, see addendum 04.

Question 405

Drawings 112b and 113b: Would it be possible to clarify who is to supply the catwalks (metal fabrications or structures)? In the metal fabrications specifications 05 50 00, item 1.2.5, it says that they would be part of Metal division. However they appear on the structure drawings.

Answer 405

All catwalks in multifunctional room are by structure section 05 13 23.

Question 406

With reference to axis 1 and axis J/S-423, S-424 and S-425.
Where do we find the types of chords to be used for lintel types "T", "V", "P" and "R"?

Answer 406

On sheet S-492 and legend on sheet S-001.

Question 407

With reference to cross sectional drawing 9, (axis B.9)/drawing S-681, which column base (with anchors) dimensions are required?

Answer 407

Gridlines B.9 / 26; Base plate and anchors: type ZZ (S-214).

Question 408

With reference to drawing S-113b, it appears that cross sectional drawings 1 and 2/S-564, near axis 12, is incorrect. Which cross sectional drawing should be used since there is no drawing S-564?

Answer 408

We see no reference to the S- 564 sheet. S- 113b sheet was re-issued in addendum 3.

Question 409

Questions related to doors, frames and hardware (drawings A-720, A-721 and A-722):

- a) Which section of the specifications is concerned regarding the missing specifications for the wooden door frames? Which section should supply these frames?
See details A-722, J1, J2, J3, J4, J5, J6, J7, J8, J9, J13, J14, J17, T3.
See also Specific Notes / Interior Details Nos 24, 26, 27, 42, etc.
- b) Which section of the specifications is concerned regarding the missing specifications for the interior wooden window frames? Which section should supply these frames?
See full drawing A-740, glazed partitions.
- c) In Nos 100-18A, 1000-18B, 100-19A, 100-19B, 100-21A, 100-21B, 100-23A, 100-23B, what is the JSAS abutment? It is not shown on page A-722.

- d) Nos 100-47, 203-02A, information on the required abutment for the frame is "to come." What are the details of the required abutment?
- e) No 100-74B, do we need to provide a new door for the existing frame?
See General Notes / construction drawing A-111c.
- f) Drawing A-111a, axis 2/H, room 103-04C, an opening appears for this room, but not in the table of doors. Is this a new opening to be provided? If so, what are the specifications (frame, door and hardware)?
- g) Drawing A-111c, axis 25/G9, room 100-78, an opening appears for this room, but not in the table of doors. Is this a new opening to be provided? If so, what are the specifications (frame, door and hardware)?
- h) Shouldn't opening 301-10B have a type CN5 frame? See drawing A-113c, axis 27/E8.
- i) Opening 301-16, shouldn't the doors be made of wood instead of steel?
- j) Shouldn't opening 402-11 have a type CN5 frame? See drawing A-114c, axis 27/E8.
- k) Opening S100-34B, shouldn't the outside door be made of steel instead of wood?
- l) Drawing A-110a, axis 5.1/D, room S100-01, an opening appears for this room, but not in the table of doors. Is this a new opening to be provided? If so, what are the specifications (frame, door and hardware)?
- m) Drawing A-110a, axis 5.7/A.2, room S100-12, an opening appears for this room, but not in the table of doors. Is this a new opening to be provided? If so, what are the specifications (frame, door and hardware)?

Answer 409

- a) See addendum 4.
- b) 06 20 00- Finish carpentry.
- c) Refer to detail 10/A-759.
- d) See addendum 3.
- e) New door must be install, see door schedule.
- f) This is a new opening, see addendum 5.
- g) This is a new opening, see addendum 5.
- h) Frame type is CN5. See addendum 5.
- i) It is a wood door.
- j) Frame type is CN1. See addendum 5.
- k) Refer to addendum 3.
- l) See addendum 5.
- m) Refer to addendum 3.

Question 410

Electrical distribution:

- a) Please provide the sequence of operation for the safety lock of the fire pump power breaker.
- b) We do not have any 100% circuit breakers with trigger exceeding 400A. So, for the circuit breakers equal to or less than 400A, can we provide an 80% circuit breaker?
- c) Specifications section 26 28 16.02:
 - o 2.4.7 – The OPTIM trip units do not have a display for the current. An external centralized display could be included for all the trips, if necessary. Please confirm.
 - o 2.4.8 - "The trip unit... The information required for remote **control** and monitoring." Can you please clarify the desired controls and monitoring?

Answer 410

- a) Control panel of fire pump includes a dry contact for load shedding. This contact is used to force the automatic transfer switch to return to "normal" position when the fire pump is going to start.

- b) 80% rated circuit breakers are acceptable at the condition to provide 125% overrated circuit breakers and to adjust the trip value of the electronic trip unit as indicated on drawing.
- c-1) Centralised display is accepted.
- c-2) Information to transmit include voltages, currents, kW and kVA for the needs of the power monitoring system required in section 26 24 13. Distance control is not required.

Question 411

Specifications section 01 51 00 – Temporary utilities, article 1.7.1. says: "Ensure continuous operation and maintenance of heating equipment and assume the related electrical power consumption costs as of the contract signature date."

Please indicate last year's electrical power consumption costs broken down by month.

Answer 411

The annual costs incurred for the operation of the Voltigeurs de Québec Armoury for the period between January 1st 2014 and December 31st 2014 were:

- Electricity : \$28,196.68 (excluding taxes)
- Natural gas: \$48,228.88 (excluding taxes)

Question 412

With reference to the hardware group and the table reissued in Addendum 3, please clarify the following points. Please note that the information in the two documents does not match.

Hardware group

- a) 207 – Door S100-06B is in the table, but not in the group. Please clarify.
- b) 214 – Doors 100 ESC7/100 ESC8 are identified in the table, but not in the group. Please clarify.
- c) 216 – The group is not in the documents, but is specified for door 100 ESC9C. Which is the right group?
- d) 218 – Door 100 ESC14 is listed in the group, but group 219 is specified in the table. Which one is right?
- e) 219 – An aluminum door and a steel door specified in the same group? Is that correct? Also 100 ESC14 in table (???)
- f) 225 – Doors /400 ESC 12 and /400 ESC 13 are 57 mm thick STC 50 doors. However, the rest of the doors specified for the group are not. Please clarify. The fasteners for the hardware will be different, so they should not be together.
- g) 226 – Door 100 ESC9A is included in the group, but group 301 is specified in the table. Which one is right?
- h) 234 – No door is listed in this group in the table, but doors 100 ESC7 and 100 ESC8 are in the group. In the table, they are listed in group 214. Please clarify.
- i) 235 – Door 100 ESC9C is listed, but it is in group 216 in the table. Which one is right?
- j) 239 – Door S100 10A is listed in the group, but no group is entered in the table for this door. Please clarify.
- k) 301 – No group 301, but door 100 ESC9A is specified in the table. Please clarify.
- l) 306 – Door 100 23C is in the table, but not in the group. Please clarify.
- m) 307 – There is no group 307, but doors 100 22A/10018A/10019A/100 21A are in this group in the table. Please clarify.
- n) 402 – Door 10037 is not in the table, but it is listed in the group. Please clarify.
- o) 403 – Door S100 12 is already listed in group 400. Which one is right? Also, door 301-01C is not in the table, but is listed in the group. Please clarify.
- p) 411 – Door S100 35B is in the group, but not in the table. Please clarify.

- q) 416 – Doors S100 37 and S100 38 are 79 mm thick in the table. Is that correct?
- r) 505 – Door 203 A4B is not in the table, but is listed in the group. Please clarify. Also, door 303 01B is listed in the group, but is associated with group 605 in the table. Which one is right?
- s) 605 – Door 303 01B is not in the group, but is specified in the table. Please clarify.
- t) 607 – Doors 100 20B and 10020C/10020F/10020G are not listed in the group, but are in the table. Please clarify.
- u) 701 – Door 100 53 is not in the table, but is listed in the group. Please clarify.
- v) 809 – This group is not in the table; however, doors 100 18A/19A/21A/22A are listed in it, but are specified in group 307. Please clarify.
- w) 810 – Doors 100 14A and 10023C are listed in this group, but are in group 306 in the table. Please clarify.
- x) 903 – Door 301-16 – only this pocket (???) door has a steel frame in the table. Please confirm.

Answer 412

- a) See response 392.
- b) See response 392.
- c) See response 392.
- d) See response 392.
- e) See addendum 5
- f) Doors 400-esc12 and 400-esc13 are 50mm width. Remove note 23 for these 2 doors.
- g) See response 392.
- h) See response 392.
- i) See response 392.
- j) See response 392.
- k) See response 392.
- l) See response 392.
- m) See response 392.
- n) See response 392.
- o) See response 392.
- p) See response 392.
- q) Doors 100-39C and 100-39D are 45mm width as per specifications.
- r) See response 392.
- s) See response 392.
- t) See response 392.
- u) See response 392.
- v) See response 392.
- w) See response 392.
- x) Steel frame will be replaced by wood frame, see addendum 5.

Question 413

On plan A-759, detail 4, Lobby side, insulation marked with note 095 70 mm from top to bottom, then note 123 indicates 50 mm; in both cases, it is covered with an aluminum panel. Is this accurate when the dimension indicates 53 mm?

Answer 413

Note 095 will be replaced by note 123.

Question 414

Room finish schedule A-700, room S-128, note 1. However, the elevations on A-706 are represented as something else. Which one is correct?

Answer 414

Refer to 5-9-13/A-706.

Question 415

What are the wall types for room 200-05 on plan A-112a?

Answer 415

Refer to addendum 1.

Question 416

Reference to plan A-753 in Addendum 3.

- a) In detail 7, it is marked as 21-B-1 but on the plan, it is marked as 22-B-1. Which one should we take?
- b) In the modified details, the types of walls were changed in relation to the plan. Is the plan going to change?

Answer 416

- a) 22B-I as per plans.
- b) Plans are going to be revised as per details.

Question 417

Questions about electricity

- a) On plan E-211, it is asked that the winch control panel be connected to the control stations on the catwalk. What is needed between the two items?
- b) On plan E-505, details 2, what is equipment W-S-Q3N1?
- c) On specifications section 33 65 73, article 2.4, there is a reference to a Lécuyer PA-021023 pullpit. There is nothing on the electrical plans indicating that it is to be provided. Can you confirm whether or not it is to be provided.
- d) On plan E-010, there is a pin & sleeve outlet 60A-600V. Would you please indicate the power source.
- e) We feel that Answer 93 in Amendment 7 is not valid. For example, for system VA1-104-B00 on plan E210, it is not indicated by FIM; however, on plan E-504, it is indicated by FIM and for several other pieces of equipment. Does this mean that the other speed regulators connected to panels other than C-S-L6N1 or C-S-L6N2 are not also provided by mechanical? Please indicate clearly who provides each of the speed regulators.

Answer 417

- a) Control panel of electric hoists on axe 22 and F4 is cancelled, link is not required anymore. Refer to upcoming addendum.
- b) This equipment has been removed in addendum No. 1.
- c) Two handholes are required and are indicated on drawing E-010 by the symbol "X" contained in a double-square.
- d) Supply is from panelboard W-R-B3N1, circuit No. 25, 27, 29, cable 4#6 AWG + 1#8 V - 27 mm, breaker 60 A 3P to add. Refer to upcoming addendum.
- e) All variable speed drives are provided by mechanical division.

Question 418

Elevator

Would you please confirm the dimensions of elevator shaft 6. There appears to be an error. Its capacity is 3500 pounds with front and rear exits and the dimensions of the shaft are the same as for elevator number 1, which has front openings only and the same capacity.

Answer 418

See answer 360.

Question 419

Wood

- a) Is the type of wood for the glue-laminate wood parts strictly D-Fir?
- b) What impact grade is wanted for the CLT panels?
- c) What is the diaphragm force for the shear block in axis 8.1?
- d) What is the applied load for all roof trusses?

Answer 419

- a) Not necessarily. It is supplier's choice.
- b) See addendum 4.
- c) See addendum 1.
- d) See addendum 2.

Question 420

Details 1-2/A-438 and all the details on page A-435b are still missing. Please provide.

Answer 420

Refer to addendum 4.

Question 421

In the clarifications in Addendum A-03, item 10, you indicated that you would be adding notes to A-313. However, this page does not seem to exist. Please explain.

Answer 421

Please remove reference to A-313 from this clarification.

Question 422

On plan A-113c page, note 16, it indicates "steel ladder (see structure)." These ladders are located a little below axis E.6 and above axis F-4 close to axis 26. After verification, these ladders do not seem to be in structure. Please clarify.

Answer 422

See addendum 4.

Question 423

Would it be possible to have a detail of the stainless steel grating walkway to be installed between the blades and curtain walls at certain places on levels 3 and 4 (probably detail 3/A-437)?

Answer 423

Reference to detail does not seem accurate... If we refer to exterior walkways of West wing, see drawing S-698.

Question 424

In detail 4/A-442, there seem to be some elements (spruce roof boards and existing structural elements) that need to be replaced if they are altered. You indicate "See structure." However, after verification, only the work on the lintels seems to be shown. Please explain.

Answer 424

Composition T-8, sheet A-001.2, at specification - « *existing structural elements, replace missing elements (see structure)* » will be modified in addendum to come by « *Existing damaged roof boards, spruce 32 mm x 152 mm, must be replaced on 40% of the surface of the roof between the axis F and C and between the axis 1 and 4.* »

Composition T-8.1, sheet A-001.2 at specification – « *3 layers of plywood 16mm BC Fir (grooved) see structural* » will be modified in addendum to come by « *one layer of plywood BC Fir (grooved)* ».

Question 425

On plan S-1001 issued in Addendum A-02, Amendment 004, it says "guardrail integrated to the copper fins see architecture." Is this referring to the copper tube in detail 3/A-340 issued in Addendum A-03 (Amendment 006)?

Answer 425

Yes.

Question 426

Does detail 3/A-340 issued in Addendum A-03 (Amendment 006) apply to all the horizontal blades except for the base horizontal blades?

Answer 426

No: refer to S-1001 (Lifeline prevention system) for localization of this detail, addendum to come.

Question 427

Reference: vertical expansion joints, detail 2 on drawing sheets A-420, A-101 and A-540 at the top of the joint expansion legend of exterior interventions (black triangle).

On sheet A-540, it says to refer to sheet A-420 for the details on these vertical expansion joints. If we go by detail 2 on that sheet, it would be necessary to take down and reinstall the masonry wall over the entire thickness to make the joints. There are 10 expansion joints to make on the exterior walls. We think that this detail 2 is not the right detail for this work. Would it possible to check and, if necessary, issue a detail corresponding to this work?

Answer 427

Addendum to come

Question 428

Plan A-100, note 4, single tier conveyor

There does not seem to be a specifications section that includes the supply and installation of the conveyors. Please validate and specify as required.

Answer 428

Clarification to come by addendum: supply and installation shall be done by the equipment supplier.

Question 429

Some equipment requires qualifications. Is it possible to know which supplier prepared the following specifications sections?

- a) 11 13 00 Dock equipment
- b) 11 11 00 Lifting beams
- c) 11 12 00 Parking control barrier
- d) Automatic coat room

Answer 429

- a) No specific provider.
- b) This is a custom-made equipment.
- c) No specific provider.
- d) RK Conveyors

Question 430

Concerning the type 1 rock anchors for pilasters issued in Addendum S01, drawing 1, page S902, we are unable to locate them on the plan. Are these anchors in fact those on plan C-X07 that will be specified in a future addendum? If not, on which drawing sheet can we see their location?

Answer 430

This anchoring detail on rock type 1 refers to the pilasters bracing in the central area, especially the type 20. See reference to S- 110b and S-215.

Question 431

Masonry questions:

- a) On page A-511 elevation O2, there are two sloping masonry walls 500 mm wide, identified by note 07. Is this the masonry wall identified as being on a slope, found on page A-404 Cross-section 03 & 04? In addition, would it be possible to provide the composition of the wall to be built?

- b) Page A-511, Elevation O3, please provide the detail representing intervention 6A at the top of the elevation.
- c) Page A-400, Cross-section 04-A300, the composition of the reassembly of the masonry indicates that there are 2 brick rows to rebuild. However, on the cross-section there are only 3 rows. Please clarify.
- d) Reference example type, drawing A-515, elevation N01. What do the interventions on stones identified as a type "D" pointed with a «14» mean?
- e) Reference to drawing A-518, intervention type 6C. Should we simply dismantle and reassemble the cornice stone as indicated in detail 02/A408 or must we carry out the work described in note 6C? No substrate is shown in cross-section 02/A408.
- f) In drawing A-518, elevation S04, please provide details about demolition and reconstruction of the "6A" type of work above intervention "14".
- g) In drawing A-518, elevation S04, cross-sections EAST Wing 01&02/A-406 are not representative of the work to be carried out in the left-side zone of the elevation mentioned. Please provide more information.

Answer 431

- a) Yes. Wall composition : 5 wythes of bricks
- b) Disassembling of 7 wythes of bricks and reassembling of 7 new wythes of bricks.
- c) See addendum 5.
- d) See addendum 5.
- e) As shown on detail 2/A-408, only parapet stone must be disassembled and reassembled. There is no backing.
- f) See section 1/A-409.
- g) See section 1/A-409 and 2/A-409.

Question 432

Reference Cross-sections 3 @ 6/S691.

A stiffener of 10 mm will be needed. We would like c/c spacing between each stiffener.

Answer 432

As mentioned on details, stiffeners are required openings only or a specified spacing

Question 433

Reference drawing S-112c:

- a) Level on top of steel should be 95 565 instead of 99 765 for level 2. Please confirm.
- b) Level on top of steel should be 94 055 instead of 98 255 for plan view 6. Please confirm.
- c) Will steel frames be needed, between axis B.5 and B.9, level 2 (given that there are small vertical lines)? If yes, which frames?
- d) What type of column will be needed for Axis G(-179)-26(-1280)?

Answer 433

- a) See answer to question 286
Floor notes on S-112c: TOC Elevation: 95 730
TOS Elevation: 95 565
- b) See answer to question 286
Top of steel, floor of mechanical room shown on 6 / S112c: 94 055
- c) Yes, W150x14
- d) See answer to questions 228 and 286
There is no column at G(-179)-26(-1280)

Question 434

Reference Axis 5/drawings S-461 and S-462.

Where are the types of frames that will be needed for A ,R , D, and V types of lintels?

Answer 434

The requirements lintels to be treated are all in plan and detailed on S-492.

Question 435

Reference drawing S-463:

- a) Axis B.7/S-462 and Axis 5.9/ - Is it possible to indicate the detail for the lintel and frames that will be needed?
- b) Near Axis F/5 – Are steel beams really required? If so, which type of frame and how many will be required and with what lengths?

Answer 435

- a) See S-492, new lintel detail
- b) Yes, see S-465 for details

Question 436

Reference to drawing S-211c of addenda S03.

It appears that the axes for the table of columns will instead be E.2/22.2 (D.7/22.2), E.2/23(D.7/23), E.2/25 (D.7/25), E.2/26 (D.7/26) and E.2/27 (D.7/27) and the column that will change size will be D.7/23 instead of D.7/25? Please confirm.

Answer 436

Confirmed.

Please ignore gridline callouts on sketch S-211c-01 of addendum S-03

Column on gridlines D.7 / 23 is a W200x42 instead of W200x36

Question 437

Reference questions-answers #107 to amendment 007.

Would it be possible to design frames (in structure) to support the curtain wall, given that the architect seems to indicate that this is included by section 05 12 23? (see cross-section 2/A436, addenda A2)

Answer 437

See addendum 3 and 4.

Question 438

Could we have information, photos or plans of the structure and the interior of the attic space of the MESS? It was not possible to gain access during the visit.

Answer 438

No photo available, complete the bid in accordance with the plans and specifications.

Question 439

Reference plan A-115a and note 7-028 A-410.

Request to rebuild structure of the bell turret with fire retardant ULC wood. However, the height varies from 6 to 7m. Please provide drawing to illustrate structure.

Answer 439

See answer 282.

Question 440

Reference to drawing A605, article #35, precast concrete step. Would it be possible to issue a specification section for precast concrete steps and landings?

Answer 440

Specification section to come in addendum.

Question 441

Would you be able to provide contact info for rug distributor "Standard Carpets" in Canada? (An internet search of their site only turned up their addresses in the United Arab Emirates). For TAP3, there's no problem, as these are all manufacturers with whom we regularly work. However, for TAP1 and TAP2, the Indulge model from Standard Carpets has been requested and for which there is no possible equivalent, it is very difficult to obtain prices.

Answer 441

Standard Carpets is distributed by Centura.

Question 442

In ventilation, in the table of contents, in section 23 08 02 "Cleaning and Start-up of Mechanical Piping Systems", the letter (v) appears. When I read this section it is only about cleaning the hydronic systems. How does this section concern ventilation contractors? Will there be a section for aeraulic systems? Please clarify.

Answer 442

See addendum 5.

Question 443

Questions regarding air handling units:

- a) Is there a perimeter base? If so how high is it and is it included in the maximum height of each unit?
- b) Is it absolutely necessary for the frames of the units to be coated with a layer of rust resistant baked enamel? Would York finish (POLANE® HS Plus Polyurethane Enamel) be acceptable?
- c) What diameter are the fans?

- d) Must we absolutely remain within the dimensions or can these be exceeded by a couple of inches in length?
- e) Can we go with access doors smaller than 24"?
- f) For the heat wheel, what is the purging angle?
- g) For the coils, can there be more fins per inch than what is in the plan?
- h) Would it be possible to go with a single coil instead of two while respecting capacities and temperatures?

Answer 443

- a) All units are provided with a base, see specification 23 73 10.
- b) Yes.
- c) See addendum 5.
- d) The dimensions are at references. If the dimensions of proposed units are superior of those specified in the specifications, the supplier takes responsibility. Validate with drawings.
- e) Yes, except for access sections
- f) At your discretion, comply with specification 23 72 00.
- g) Yes, but respected the suggested performances of fans, coils and other.
- h) Bid as plans and specifications.

Question 444

Ventilation, systems 100 - 200:

- a) Fan flow rates are different from those of the heat wheel and the hybrid coil (10000 l/s vs 11240 l/s). Which one should be selected?
- b) Are coils without drift eliminators accepted?
- c) What are the dimensions of the wheel and its effectiveness? The supply temperatures?
- d) Is the flow rate through the hybrid coils 11240 l/s or 10000 l/s?
- e) Is the steam distributor placed before the fan as shown in the plan or after the fan as shown in the specifications?

Answer 444

- a) See addendum 5.
- b) See addendum 5.
- c) See M-604.
- d) See addendum 5.
- e) As specification and drawing M-503.

Question 445

Reference to section 23 05 29, article 2.4.4. There's a reference to section 20 05 00 of the specifications but this section does not exist Please correct or delete the erroneous reference.

Answer 445

See addendum 5.

Question 446

Who is responsible for making holes for the mechanical disciplines (PI,PB,V,RC): each discipline or the general contractor?

Answer 446

Except for opening or drilling in existing masonry walls, or for openings exceeding 6in diameter, that are under structure, all other drilling is by each sub-trade.

Question 447

In Amendment 007, question #97, there is a description of openings to be made on window frames for electrical and lighting supply but the answer says it is prohibited to make holes in brick walls. Please clarify.

Answer 447

See window details on A-474a. Electrical wiring is shown.

Question 448

Do the answers to questions #98 & #99 apply to all disciplines or only to electrical?

Answer 448

To all disciplines.

Question 449

Is work on electrical pillars and transformer pedestals including excavation and backfill done by the Electrical discipline or by another?

Answer 449

Installation of precast transformer pad and construction of electrical ductbanks including excavation and backfilling are included in the scope of electric works. Backfilling shall be executed up to the civil infrastructure level, or up to 150 mm below finished ground level if vegetal soil is required. Coordinate with civil division for the surface finishes composition and for work scheduling. Refer to upcoming addendum.

Question 450

Reference section 27 10 05:

- a) In point 2.4.1.3 of section 27 10 05, who provides the network switch? And will the entire 300 de Cisco 300 series be deemed acceptable?
- b) In point 2.5.1 and 2.6.1, do we have to provide connection cables and workstation patch cords? If so, whose responsibility is it?

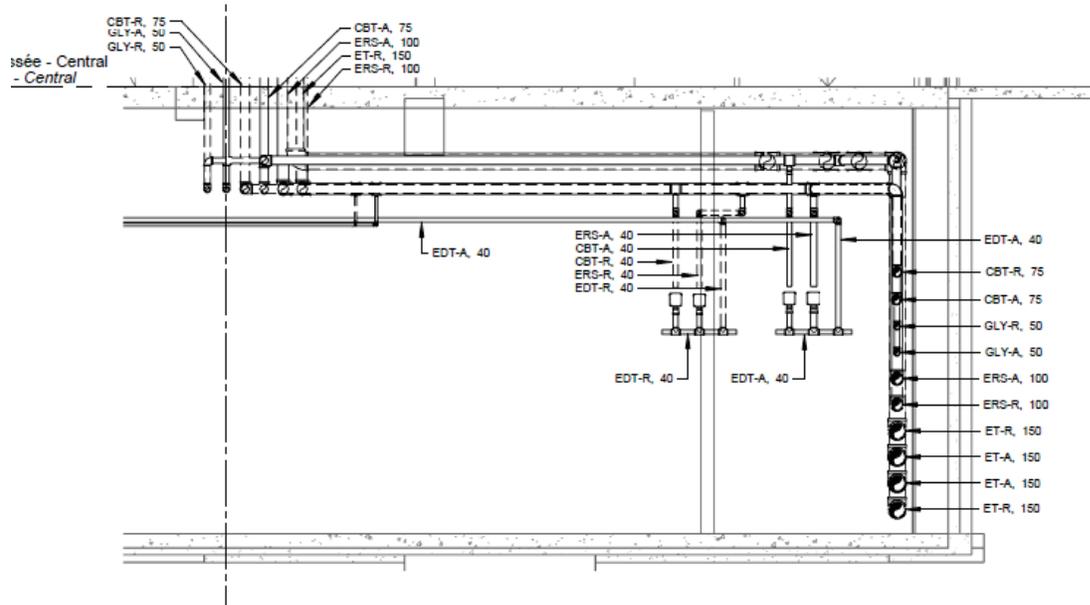
Answer 450

- a) Network switch is required by section 27 10 05. Switches that are conforming to the specification requirements are acceptable.
- b) Provide cords for the workstations required in this project.

Question 451

We would like to better understand the dual temperature water system. When we look at the two 40mm manifolds, there are 4 accessories. Are these valves, temperature gauges? Nothing is indicated in the Legend. Please clarify.

In addition, would it be possible to have a larger cross-section to get a better view of the piping in this section?



Answer 451

Refer to drawing M-351.

Question 452

In the wooden-frame restoration tables (for example in plan A-721), some of the transom glazings are to be changed. However, in section 06 03 15 of the specifications, in article 3.5.5, it says that all of the glazings of each transom must be changed. Do we have to follow the instructions in the table or in the specifications?

Answer 452

Requirements of the specification must be complied. See addendum 5.

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