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## **SOLICITATION AMENDMENT**

## **MODIFICATION DE L'INVITATION**

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

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

### **Comments - Commentaires**

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

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<b>Title - Sujet</b> Construct Dartmouth Correction Ctr	
<b>Solicitation No. - N° de l'invitation</b> EC016-160846/A	<b>Amendment No. - N° modif.</b> 008
<b>Client Reference No. - N° de référence du client</b> R.035143.001	<b>Date</b> 2015-11-25
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWB-020-3721	
<b>File No. - N° de dossier</b> PWB-5-38048 (020)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2015-12-03</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Daylight Saving Time ADT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Donovan, Janine PWB	<b>Buyer Id - Id de l'acheteur</b> pwb020
<b>Telephone No. - N° de téléphone</b> (506) 636-5347 ( )	<b>FAX No. - N° de FAX</b> (506) 636-4376
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

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Cette modification de l'invitation numéro huit (8) est soumise et comprend la modification numéro huit (8) suivante.

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

Toutes autres conditions ne changent pas.

Modification numéro 8

This addendum consists of:

- 30 typewritten pages.
- 19 sketches: A203, A204, A205, A206, A207, A208, A209, A402, A502R, A503, A504, A801, A802, A803, A805, SKS1.0-1, F204, H205, and V603.
- 1 specification section: Section 14 20 05 – Passenger Elevator (14 pages)

#### QUESTIONS AND CLARIFICATIONS:

1. Question: Section 10 28 13 - Washroom Accessories: request clarifications on following:
  - (a) Item 2.2.3 - Grab Bars (GB3) denotes 650 mm. long. Should this be standard size 750 mm. long?  
**Answer:** Yes, GB 3 should be 750 mm. long.
  - (b) Item 2.2.4 - Sanitary Napkin Disposals (SND) – denotes embossed with “push”.  
**Answer:** Some of the listed acceptable products have a top cover, while others have a side door which has the word “push” on it. Either top cover or side door is acceptable and embossed lettering is not needed to be added to product that does not have come that way.
  - (c) Item 2.2.7 - Hand Dryers (HD): the specified descriptive model does not discern whether it is hands-in application or wall mounted application.  
**Answer:** Wall-mounted application as noted by this addendum.
  - (d) Item 2.2.9 – Towel Bars (TB) – Bradley Model specified should read “832-2.”  
**Answer:** Model number correction corrected by this addendum.
  - (e) Item 3.3.3 – Sanitary Napkin Disposal (SND) – A110, 114, B114 and 205. Washroom 205 is a male washroom thus should read Washroom 204.  
**Answer:** Yes – that is correct.
2. Question: Series 300 by Cascadia and Series 700 by Inline Windows are inswing window systems – there is a discrepancy between the two following specification items: Part 2 – Products, 2.1 – Systems lists in-swing windows products under item .1.1 and item .1.3. Part 2 – Products 2.2 – Window Type and Classification, item .1.8 calls for side hinged swing out glazed casement units where indicated on drawings. Please clarify.  
**Answer:** Products 2.2, item .1.8 for outswing casement type is correct. The product series numbers will be corrected by this addendum.
3. Question: There are exterior aluminum sills shown on page A8.1 of the architectural plans (see detail 3/A8.1). Are these items covered by other trades or are they provided by the fiberglass window manufacturer?  
**Answer:** The aluminum sills are specified in Section 08 51 13 – Aluminum Windows. Refer to this Addendum.
4. Can you confirm that the doors and curtainwall are to be clear anodized class 1 and the aluminum windows are to be dark bronze anodized?  
**Answer:** Yes. The reason is due to the colour of adjacent wall materials.

5. Can you clarify that the curtainwall is to be double-glazed and the aluminum and fiberglass windows are to be triple-glazed.

**Answer:** Yes – curtainwall is double-glazed and aluminum and fiberglass windows are triple-glazed.

6. Under spec Section 08 54 13, subsection 2.1 calls for double-glazed sealed units but subsection 2.6.2 calls for triple-glazed units. Can you clarify?

**Answer:** Triple-glazed units is correct. We will correct the inconsistency by this addendum.

7. Could you please provide clarification for the panel requirements for the windows and curtainwall: The window Schedule (A2.6) indicates insulated metal panels (IMP) for fiberglass and aluminum windows. The specifications indicate glass infill panels (SPG) for Section 08 54 13 and Section 08 51 13 in Item 2.3.3 and Section. As well Detail 5/A8.5 shows IMP and Detail 7/A8.5 shows SPG.

**Answer:** Aluminum and fiberglass windows have insulated metal panels. For aluminum curtainwall, there is both insulated metal panel and glass spandrel panels. We will correct the detail and specification references by this addendum.

8. W7, W8 and W9 curtainwall frames indicated SPG panels while W10 curtain wall frame indicates IMP panels – but all details on A8.4 indicate SPG panels.

**Answer:** SPG panels for curtainwall typically. Window type W10 changes to anodized aluminum spandrel panel - Detail 2, 3 and 4 / A8.4.

9. Drawing 5/A8.11 details a shower tray, curb and barrier free ramp all to be prefabricated while drawing P6.1 lists these items as field fabricated and no products are listed in the specifications. Can more detail be provided for this?

**Answer:** The shower base, curb and barrier free ramp will be field fabricated. Refer to details issued with this Addendum.

10. A&D Prevost Manufacturing is in the specifications for aluminum doors and frames and the aluminum windows. Can we also quote A&D Prevost series 3400, 2-1/2" thermally broken curtain wall material equivalent to Alumicor and Kawneer curtain wall specified?

**Answer:** Yes – however A&D Prevost 3400HP is equivalent.

11. The doors, door framing and curtain wall are all specified as class 1 clear anodized. Can you confirm the intent for the aluminum windows to be dark bronze anodized or should windows match the rest of the project?

**Answer:** Colours are correct as specified. The reason is because of the different wall materials which are adjacent to windows and curtainwall.

12. Can you confirm the sidelight frame in Corridor A100 is type S1 frame?

**Answer:** Door (A100) is just a door in HM frame, no sidelite. But Door (A105) is a door and sidelight and it is Screen type S1 – see Dwg. 1/A4.2.

13. Lastly, at the ground floor level along grid line 5.5, there are three interior glass partitions. Can you confirm the frame types at Room (111) and Room (103) as the cross section A/A3.4 does not seem to match the floor plan.

**Answer:** Screen in Room (103) is Screen type 5 (noted incorrectly on Dwg. 1/A4.2 as S6 – corrected by this addendum). Screens in Room (111) are Screen type 4 – see Dwg. 2/A4.3.

14. Drawing A2.6 (Legend) is calling for Insulated Metal Panels (IMP). There is no spec for these panels. The only specified products are spandrel panel infills.

**Answer:** We have clarified the use of the terms IMP and SGP in this addendum.

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15. Are we to use the panels as specified in Section 08 44 13, item 2.2.2, section 08 51 13 item 2.3.3 and section 08 54 13 item 2.3.3 for IMP and SGP?

**Answer:** *This addendum clarifies where the IMP and SGP panels are to be used.*

16. Please confirm if there is a requirement for the glass to be tempered for the triple glazed sealed units for the aluminum and fiberglass windows as found in Section 08 80 00, item 2.2.2? If these units are to be tempered, are all three lites making up the unit to be tempered?

**Answer:** *No, there is no requirement for the tempered glass in the sealed glazed units.*

17. Under spec section 08 44 13, subsection 2.2.1.9, it reads "Acceptable product: Kawneer 1600 (2), Alumicor Series 2500 or approved equal". Based on the new energy code that came into effect in January, should this now read "Kawneer 1600 UT, Alumicor Series 2600, or approved equal"?

**Answer:** *Yes – these product numbers, and those of acceptable alternates, have been changed by this addendum.*

18. What is the required spacing for the first and second layer of Z-bar framing at metal and wood siding locations and the composite panel locations.

**Answer:** *Section 07 46 19 – Preformed Metal Wall Cladding, Subsection 2.2 Fabrication, item .3 Spacer or Girt System requires manufacturer to design the galvanized steel girt system to meet the performance requirements specified. Generally steel girts are required at all changes in materials, changes in direction of materials and at minimum 900 mm. (+/-) o.c. vertically and horizontally.*

19. Re: the window infill panel, from the description it appears the Architect wants a back pan detail with a spandrel glass panel at the exterior. However the drawing detail 6/A8.5 (and 7/A8.5 similar) shows an insulated unit or similar. We would like clarification on this detail.

**Answer:** *Details 6/A8.5 and 7/A8.5 refer to fiberglass window types. Section 08 54 13 – Fiberglass Windows changed "Insulated metal panel (IMP)" to an aluminum faced, insulated sandwich panel by this Addendum. Drawing 6/A8.5 and 7/A8.5 changed by this addendum to reflect this change.*

20. There is no geotechnical report provided to indicate where the rock is located and to determine the extent of rock removal required. Could the geotechnical report be provided for this purpose?

**Answer:** *Yes – geotechnical report and as-built survey was issued by earlier addendum.*

21. Is there a detail for gutter at the slope roofs?

**Answer:** *There are no gutters at sloped roofs.*

22. Is fireproofing of the basement ceiling required?

**Answer:** *Not the suspended ceiling, but the floor framing above the basement area requires 1 hr fire resistance rating as noted on Building Code Matrix on Dwg A2.0. This addendum will clarify where spray fireproofing is required in Section 07 81 00 – Spray on Fireproofing.*

23. Can the vapour barrier in metal roofing section 07 61 00, item 2.1.3 be changed from 2 ply felt and hot asphalt to a peel and stick membrane similar to Soprema's Lastbond Shield? Please advise if this is acceptable.

**Answer:** *Modified bituminous "peel and stick membrane" is acceptable in lieu of 2 ply felt vapour retarder. "Sheet Vapour Retarder" in Section 07 61 00 – Sheet Metal Roofing is changed by this Addendum.*

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24. Please supply details of the low point of the Gull Wing roof c/w roof drains as none are shown on drawings. Should there be at least 6'-0" of base steel and torched cap sheets up each slope from the low point of this roof? Please advise.

**Answer:** *Low point of Gull Wing roof changed to 1800 w. 2-ply modified bituminous membrane roof assembly with tapered roof insulation crickets. See details A804 and A805.*

25. Rock breaking: the documents note that rock breaking is to be included in the lump sum tender. This item is nearly impossible to quantify and is typically covered by an allowance or unit rates. Can an allowance be provided and carried by all general contractors to ensure we are all carrying the same thing?

**Answer:** *Allowance or unit rates are not possible. The geotechnical report and as-built survey was issued by earlier addendum and bidders must determine their costs for required site work.*

26. Heritage Gas: there is a note on the civil drawings indicating the contractor is to carry the costs for Heritage Gas. This cost is typically carried to the client similar to Nova Scotia Power charges as it is a utility cost.

**Answer:** *For this project include costs for Heritage Gas to install new natural gas line from Morris Drive to the building.*

27. Please confirm that the general contractor is to carry the cost for the building permit.

**Answer:** *Yes, as per Section 00 10 10 - General Instructions, Clause 1.9 – Permits, bidders are to "obtain and pay for building permit, certificates, licenses and other permits required by municipal, provincial and federal authorities".*

28. Is there a category or grade selected for the solid surface materials that is required for this project?

**Answer:** *Colour selections are made after award when materials are known. We will choose from mid-range grade of material colours.*

29. Drawing L2 shows both Mowed Sod and Sod. Please confirm difference between the two.

**Answer:** *There is no difference. Mowed sod is intended to show mowing area for operational purposes.*

30. The Interior Elevations show a Ceramic Wall tile (Drawing A5.1), referencing them by color and stating to refer to the RFS, the RFS however only shows CT in the spaces. Please provide clarity on the different wall tiles and the locations.

**Answer:** *This was clarified by a previous addendum.*

31. The Fiberglass windows are shown on drawing A2.6 as W1 through W3, however drawing A3.1 shows a W4 as a fiberglass window (between grid lines 8 & 9). Please specify if any W4 windows are to be fiberglass.

**Answer:** *Fiberglass window type W4 as shown on Drawing A3.1 between grid lines '8' and '9' (second level) should read type "W2". Changed by this Addendum.*

32. Door elevations on drawing A2.5 show no glass in Door Type C, however the Door Schedule (Also on Drawing A2.5) indicates that Door 106 (Type C) has tempered glass. Does this door require glazing, if so please provide the size.

**Answer:** *Door 106 is an acoustic door and needs a glazed vision panel for operational requirements. See detail A209 issued with this Addendum.*

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33. In the specifications (Volume 2) section 27 05 13 1.3.3 it states "3" Structured cabling system to be Belden/CDT, System 2400 or Commscope Systimax". Would Hubbell be acceptable as an alternate?

**Answer:** *This was clarified by earlier addendum: Section 27 05 13, Item 1.3.3 is revised to read: "Structured cabling system must be Belden/CDT System 2400, no alternate products will be considered".*

34. Drawing A2.0 indicates the wood strapping behind the wood siding (Wall W3) is to be 600mm o.c. well the details on Drawing A8.5 indicate the spacing at 400mm o.c. Please advise on the correct spacing.

**Answer:** *Spacing of wood strapping behind wood siding should be 400 mm. o.c.*

35. Note 7 on Drawing F2.1 states "use semi recessed heads in all areas with ceilings". Would institutional Sprinkler Heads be required?

**Answer:** *The semi recessed heads can be used as this is not a correctional facility.*

36. Please provide the as-built site survey as noted (Note 2) on drawing L0.

**Answer:** *As-built site survey was provided by earlier addendum.*

37. In the exterior walls would a single piece of telescoping (slotted) track be acceptable in lieu of nested (double) top tracks?

**Answer:** *Single slotted (slip) track is not acceptable in lieu of the nested (double) top tracks shown on drawings. Note: min. 25 mm (clear) deflection space is required. See details of steel stud framing issued by this Addendum.*

38. Can Roxul AFB be used inside of steel stud cavity in lieu of Roxul Cavity Rock and Impale Clips at building perimeter / exterior walls?

**Answer:** *Yes, Roxul Acoustic Fire Batt (AFB) to be used inside steel stud space of exterior wall assemblies. Provide insulation clips (impale type) to secure batt insulation to interior face of plywood sheathing.*

39. Is all interior acoustic batt insulation in all partitions intended to be Roxul AFB? If acoustic walls require a difference type of insulation, please provide specifications (See 07 21 00 .2.1.4).

**Answer:** *Yes, all interior acoustical partitions to have acoustic insulation (where shown on drawings) will be acoustic insulation as specified in Section 07 21 00.*

40. Is the skim coat (referenced in 09 21 16, .3.4.24 and .25) required for all exposed gypsum board surfaces in this project? The wall legend / plans don't seem to indicate this requirement.

**Answer:** *Skim coat is not required. The specification sentences referencing skim coat will be removed by this addendum.*

41. Is there a specific type of gypsum board required in areas with ceramic tile? Or do the gypsum board types in the related wall types suffice? If a specialty gypsum board product is required behind ceramic tile, please provide specification.

**Answer:** *Provide Gypsum Board – Moisture Resistant Board (Type 4) in areas with ceramic tile finish.*

42. The top of wall details on A8.0 seem to show a requirement for double (nested) top tracks at interior partitions. Would a single piece of 2" hileg (non slotted) track be acceptable in lieu of nested top tracks?

**Answer:** *No – single piece of non-slotted top track is not acceptable in lieu of nested top tracks shown.*



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43. General Instructions 00 10 10, item 1.1.3.2 states "PWGSC will engage the services of a UXO Tech, via DCC, to provide UXO hazard construction support for the duration of the excavation". Section 01 35 29 Health and Safety Requirements, item 1.11.1.1.3 states "Retain Gemtec Geotechnical to provide services in connection with UXO construction support during site work in this portion of the site". Please clarify the Gemtec support and how it differs from the UXO Tech provided by DCC so that we may properly account for associated costs.

**Answer:** Delete clause 1.11.1.1.3 in Section 01 35 29 – Health and Safety Requirements.

44. Health and Safety Requirements 01 35 29, item 1.6.1 and 1.6.2.1 ask the bidder to "control the Work and entry points to the Work Site. Approve and grant access only to workers and authorized persons. Immediately stop and remove non-authorized persons". And "Erect fences, hoarding, barricades and temporary lighting as required to effectively delineate the Work site, stop non-authorized entry".

A. Please confirm whether a full time security guard will be required for the duration of the project.

**Answer:** Full time security guard is not seen as required. Site safety and security remains responsibility of the General Contractor.

B. Please confirm if the site will need to be fully fenced for the duration of the project.

**Answer:** The General Contractor to provide temporary site security fencing to HRM requirements.

45. Wood siding 07 46 23 does not provide any product information or wood species. Please specify acceptable wood siding products.

**Answer:** Wood siding material are clarified by this Addendum.

46. Are the shower pans in all 10 resident showers acrylic or are they to receive specified finish flooring? If the showers are to receive finish flooring, what is the base detail?

**Answer:** The shower bases will receive resilient sheet flooring as clarified by previous addenda. The base detail is shown on detail A502R re-issued with this Addendum.

47. If the wall tile in the washrooms does not run floor-to-ceiling, is stainless steel trim required at the top exposed edge?

**Answer:** Provide PVC "L" cap trim at exposed top edge of ceramic wall tile. Size trim to match ceramic tile thickness.

48. Details 1 and 5 on A8.3 and details 5,8 and 9 on A8.4 show an angle attached to the top of the steel beam between joist shoes. Is this angle required? Plywood is attached to the metal stud framing that is in the web of the beam so this angle would not be required to support the plywood.

**Answer:** Delete angle.

49. Refer to detail A502 issued by earlier addendum: with regard to the metal flash cover top cap, it appears the shape specified is Altro C8 cap strip. Please note this cap strip is only available in PVC. Please advise of this trim is to be metal or PVC.

**Answer:** Either metal or PVC is acceptable.

50. Refer to Section 09 30 13 - Ceramic Tile, Item 2.6.5 – please advise where the ceramic accessories are required.

**Answer:** The ceramic soap dishes are intended for the showers. Provide one (1) soap dish per shower.

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51. Re: Dwg. F2.1, F2.2 and F.2.3: Earlier addendum notes there are no FE-1's in the building, but what will you put inside the FE-3 cabinets?

**Answer:** *Each FE within the legend is a combination of a fire extinguisher and bracket or cabinet. When the previous response noted that no FE-1's were required, this indicated that the specific combination of fire extinguisher plus surface mounted bracket was not required in the building.*

52. Many openings require STC label, request frame type 5. But this frame, as shown, is for thermally broken frame. Do I provide as per Ambico STC label test?

**Answer:** *Yes – provide doors and frames as per STC rating indicated. Frame type 5 is incorrectly shown referring to acoustic doors and frames. We will correct door schedule by this Addendum.*

53. Need more details regarding the misting sprinkler head at range hood.

**Answer:** *Sprinkler head below range hood in residential kitchens is required to suit operational requirements. The sprinkler head will operate in event of a stove-top fire.*

54. Are the access controlled doors detailed in section 08 71 00 section 2.2.14 or "Resident Readers" to be integrated within the access control management system detailed in section 28 23 00?

**Answer:** *Access control is 28 13 00, not 28 23 00 (typo?). No, resident card access and staff card access are independent systems that use different card types. Staff uses Corporate 1000 cards, residents use another card type – no interconnection – separate registration stations.*

55. Please clarify whether the Access Control and CCTV can interconnect on a single network?

**Answer:** *Staff access control may be integrated with the CCTV network, resident access control may not*

56. Section 27 51 16 section 2.7.1 details 18 gauge shielded wiring is to be used for speaker wiring; Drawing E6.12 details "plenum rated 2C-16 speaker wire in EMT. Please clarify wiring to be used for the speakers.

**Answer:** *18 gauge shielded is to be used for speakers. This will be clarified by addendum.*

57. Are there any interconnections between the Intercom and the Public Announcement systems?

**Answer:** *No, however the intercom is required to interface with the access control system to release door 100.*

58. Please clarify the number of input modules required for the modular mixer / power amplifiers identified?

**Answer:** *Inputs to PA are an XLR microphone input and a PBX telephone input.*

59. Are request to exit devices required at all door locations equipped with access control hardware?

**Answer:** *The electric strikes for monitored doors will come complete with latch bolt monitors which fulfill the requirement for an REX device. Refer to Section 08 71 00 – Door Hardware.*

60. With regard to the building permit it is clear that we are to carry. HRM has additional charges regarding Solid Waste, Waste Water and Water Development charges. Are we to carry these charges also?

**Answer:** *Yes, HRM charges for solid waste, waste water and water development should be included as part of the contract cost. Refer to Section 01 10 10 – General Instructions, clause 1.9 Permits.*

61. Are there any type L14 light fixtures on this project. If yes, could you please identify where?

**Answer:** *L14's are mislabeled as L11 at the reception desk. L11 at Staff room A112 is mislabeled as L10. Will revise by addendum.*



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62. Lighting controls riser diagrams do not fully match layout drawings (example: LV switches in stairwells) – do riser diagrams take precedence?

**Answer:** *Revised lighting controls risers were issued by addendum.*

63. Drawing E6.1: The labeling on some of the RP panels seems to be incorrect – we assume that RP.13 should be RP.11, RP.13A should be RP.11A, RP.24 should be RP.21, and RP24A should be RP.21A – is this correct?

**Answer:** *Correct. Will revise in an addendum.*

64. HUH, RCP-1, and FF: The mechanical schedule on drawing E6.5 shows that the controls for these items are in the cover (toggle switch and pilot light), but the layout drawing shows a separate toggle switch. Which is correct?

**Answer:** *These are toggle type motor starters c/w pilot lights located adjacent the equipment.*

65. HRV-2, HRV-3, HRV-4, HRV-5, HRV-6: The mechanical schedule on drawing E6.5 shows that the controls for these items to be toggle switches, but the layout drawings show disconnects. Which is correct?

**Answer:** *This was revised in an addendum.*

66. Are the disconnects for the elevator and the elevator cab lights fused?

**Answer:** *Yes, Will revise in an addendum.*

67. Drawing E5.3 shows a symbol in kitchen 220 that is not on the legend (square with “SD”) – is this symbol an error?

**Answer:** *This was addressed in a previous addendum.*

68. Drawing E5.2 shows resident card readers on doors to rooms D113 and D114 – this isn't consistent with the other wings, is this correct?

**Answer:** *This was addressed in a previous addendum.*

69. What cabling is required between the Resident Card Access Power Supplies and the Resident Card Access Controller?

**Answer:** *This may vary depending on manufacturer's requirements and is to be coordinated with the contractor selected manufacturer; however, one manufacturer requires 6-#18awg.*

70. Do you have a part number, or any additional details on the mounting brackets required for the security cameras?

**Answer:** *No part numbers. Cameras are either ceiling mount inside or wall mount outside and are to come with suitable matching mounting hardware to provide the desired view in the locations indicated.*

71. Where is the security camera located in the basement?

**Answer:** *There is no security camera in the basement, will delete from riser in an addendum.*

72. Drawing E5.3: What are the requirements (cabling/conduit/boxes) for the “REX” (request to exit?) symbol found at the 3 entrance doors to the pods?

**Answer:** *Request to exit devices will be deleted by addendum. Latch bolt monitor in electric strike will provide REX function.*

73. **Clarification to questions regarding specification Section 14 20 06 – Passenger Elevator:**

The original Section 014 20 06 (dated July 8, 2015) has been deleted and replaced by new Section 14 20 06, dated November 21, 2015 issued by this Addendum.

74. **Further clarification to Addendum 5 - Item 28.** re: Standard of acceptance for Personal protection Alarm System.

**Answer:** *The specification and drawings were revised in an addendum and the basis of design is Nordicom. That being said, systems that can achieve the functionality described in the specification are not excluded and would be acceptable. Detailed project specific product review will occur at shop drawing stage.*

75. Where are the heat recovery boxes (1 in basement and 5 on ground floor)?

**Answer:** *Refer to drawing V2.4.*

76. The heat recovery boxes are powered from the same circuits that already power fan coils – is the intent to piggy back these heat recovery boxes on the same circuit?

**Answer:** *Yes, the HRB's can utilize the same circuit.*

77. Are these heat recovery boxes supplied by the mechanical subcontractor?

**Answer:** *We understand that these would be supplied by the heat pump equipment supplier.*

78. How long do the tree and shrubs need to be maintained - 1 or 2 years?

**Answer:** *At least one year. Section 32 01 90.33 Tree & Shrub Preservation states "...from time of acceptance by Departmental Representative to end of warranty period..."*

79. Special Instructions to Bidders SI01 asks the bidder to "provide with its bid, a completed Declaration Form" as found in Document R2710T, GI01. Please confirm this form is required with our bid in addition to Appendix 1 of the Bid and Acceptance form.

**Answer:** In its entirety, Special Instruction to Bidders SI01 states the following: "As applicable, pursuant to GI01 of the Declaration of Convicted Offences, paragraph 10 (copied below) of the General Instructions R2710T, the Bidder must provide with its bid, a completed [Declaration Form](#), to be given further consideration in the procurement process."

**Declaration of Convicted Offences**

*Where a Bidder or its Affiliate is unable to certify that it has not been convicted of any of the offences referenced under the Canadian Offences Resulting in Legal Incapacity, the Canadian Offences and the Foreign Offences subsections, the Bidder must provide with its bid the completed [Declaration Form](#), to be given further consideration in the procurement process."*

As noted above, the form is only required if applicable. It is up to the bidders to determine if the description above applies to them. If the above applies, the Declaration Form must be provided with the bid.

## **SPECIFICATIONS:**

1. **SECTION 01 35 29 – HEALTH AND SAFETY REQUIREMENTS**

.1 Paragraph 1.11 – PROJECT/SITE CONDITIONS: Delete clause .1.1.3.

2. **SECTION 07 14 00 – FLUID APPLIED WATER PROOFING**

- .1 Paragraph 2.2 – MATERIALS, Article .1 – Waterproofing, Sentence .2 ...Acceptable product for temperatures above 5°C:
  - .1 Add new Item .5 as follows:
    - .5 Blueskin WP 200, Self-adhesive sheet applied waterproofing membrane by Henry Company Canada.
  - .2 Add new Item .6 as follows:
    - .6 MEL-ROL LM, single component, polymer-modified, cold applied, water proofing membrane by W.R. Meadows of Canada Inc.

3. **SECTION 07 21 00 – BUILDING INSULATION**

- .1 Paragraph 2.1 – INSULATION, Article .5 – Acoustic insulation:
  - .1 Change wording from “Acoustic insulation (interior stud walls)” to read “Acoustic insulation (interior partitions)”.
  - .2 Change from “.3 or approved equal.” to read “.4 or approved equal”.
- .2 Paragraph 2.1 – INSULATION:
  - .1 Add new Article .6 as follows:
    - .6 Exterior wall insulation (steel stud space of exterior walls): mineral wool semi-rigid board, type 1, class 1 to CAN/ULC-S701, density of 45 kg/m<sup>3</sup> (2.8 lb/cu.ft.), thickness as indicated.)
      - .1 Acceptable materials:
        - .1 Roxul Acoustic Fire Batt (AFB) by Roxul Inc.
        - .2 Thermafibre SAFB Insulation by Thermafibre Inc.
        - .3 MinWool Sound Attenuation Fire Batts by Industrial Insulation Group (IIG) Safety.
        - .4 or approved equal.
- .3 Add new Paragraph 3.9 as follows:

3.9 **EXTERIOR WALL INSULATION – STEEL STUD SPACE OF EXTERIOR WALLS**

- .1 Install exterior wall semi-rigid insulation boards over impale clips in stud space of exterior wall assemblies. Place insulation against interior face of exterior plywood sheathing, tightly fitted at joints and between steel studs. Leave no voids or gaps.
- .2 Install insulation with impaling clip method. Provide minimum six (6) impale clips, one in each corner and two near centre of each insulation board. Cut off fastener spindle 3 mm. beyond disk.
- .3 All butt joints shall be brought into tight contact to ensure a monolithic thermal barrier. Any cutting or fabricating shall be made of the largest module possible of insulation, to reduce the number of joints.

4. **SECTION 07 27 26 – FLUID APPLIED MEMBRANE AIR BARRIER**

- .1 Paragraph 2.1 – MATERIALS, Article .1 - Liquid Air Barrier (spray applied), Sentence .1 Acceptable Manufacturer (spray- applied type):
  - .1 Add new Item .4 as follows:
    - .4 Air-Shield LM by W.R. Meadows Inc. (for application temperatures above 5° C).
  - .2 Add new Item .5 as follows:
    - .5 Air-Shield LM by W.R Meadows Inc. (for application temperatures below 5° C).
- .2 Paragraph 2.1 – MATERIALS, Article .2 - Transition membrane and sheet membrane flashing (self-adhesive), Sentence .1 Acceptable manufacturer (self-adhesive type):
  - .1 Add new Item.3 as follows:
    - .3 Air-Shield (for temperatures above 5°) and Air-Shield Low Temp (for temperatures below 5°) By W.R. Meadows Inc.

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

- .1 Paragraph 1.2 - RELATED WORK:
  - .1 Add new Sentence .5 as follows:
    - .5 Section 07 46 23 – Wood Siding.
- .2 Paragraph 2.2 – FABRICATION: Change Sentence .3 to read as follows:
  - .3 Spacer or Girt System: Galvanized steel horizontal and vertical Sub-Girt framing to be designed by manufacturer to meet performance requirement specified. Design system to minimize direct heat transfer; avoid direct metal to metal contact wherever possible. Provide sub-girt framing at all changes in materials, changes in direction of materials and at maximum 900 mm o.c. vertically and horizontally.
- .3 Paragraph 3.2 - ERECTION:
  - .1 Change Sentence .3 to read as follows:
    - .3 Fill spaces between sub-girts with foamed-in-place insulation. Leave no gaps or voids.
  - .2 Add new Sentence .13 to read as follows:
    - .13 Provide horizontal and vertical sub-girt framing at prefinished wood siding. Coordinate requirements with Section 07 46 23 – Wood Siding.

6. **SECTION 07 46 23 – WOOD SIDING**

- .1 Paragraph 1.2 – RELATED SECTIONS:
  - .1 Add new Sentence .5 as follows:
    - .5 Section 07 46 19: Preformed Metal Wall Cladding.

## **SECTION 07 46 23 – WOOD SIDING (continued)**

### **.2 Paragraph 2.1 – MATERIALS:**

#### **.1 Article .1 – Lumber Siding: add new Sentence .1 as follows:**

.1 Rabetted Bevel siding: western red cedar, grade “A” clear pattern in accordance with NLGA 201b, factory finished on all six sides, size: ½” x 6” width (4 ½” exposed face width).

.1 Stain finish top coat to be water repellent, provide UV protection and include fungicide/mildew-cide properties. Finish colour to be selected by Departmental Representative at later date.

#### **.2 Article .2 – Accessories: change to read as follows:**

.2 Accessories: exposed trim pieces, skirt boards, closers, corner boards, closures and cap pieces of kiln dried trim board, western red cedar; sizes as shown on drawings. Factory finished and stained to match siding.

#### **.3 Article .4 – Fasteners: change to read as follows:**

.4 Fasteners: nails to CSA B111, hot dipped galvanized steel, aluminum or # 316 stainless steel fasteners, sized as required, splitless fasteners for siding, ring or spiral shank.

### **.3 Paragraph 2.1 – MATERIALS:**

#### **.1 Add new Sentence .6 as follows:**

.6 Galvanized steel horizontal and vertical sub-girt framing as specified in Section 07 46 19 – Preformed Metal Wall Cladding.

### **.4 Paragraph 3.3 – INSTALLATION:**

#### **.1 Add new Sentence .5 as follows:**

.5 Coordinate galvanized steel sub-girt framing requirements with Section 07 46 19 – Preformed Metal Wall Cladding.

## **7. SECTION 07 61 00 – SHEET METAL ROOFING**

### **.1 Paragraph 2.1 – ROOF SYSTEM COMPONENTS, Article .3 – Sheet Vapour Retarder:**

#### **.1 Change Article .3 to read as follows:**

.3 Sheet Vapour Retarder: SBS Modified Bitumen membrane, reinforced, slip resistant top surface, self-adhering bottom surface with release paper, minimum thickness of 1.0 mm. Acceptable material:

.1 Soprema – “Lastobond Shield”.

.2 Henry Company Canada/Bakor – “Blueskin Roof RF 200 – Ice & Water Barrier”

.3 or other equal approved product.

8. **SECTION 07 81 00 – SPRAY-ON-FIREPROOFING**

- .1 Paragraph 2.1 – MATERIALS, Sentence .1 – Sprayed fireproofing:
  - .1 Change Sentence .1 as follows:
    - .1 Sprayed fireproofing: “1 HR fire protection required to all structural steel beams at ground level over basement and all structural steel beams at second floor level: ULC certified cementitious fireproofing qualified for use in ULC Designs specified.”
- .2 Paragraph 3.3 – APPLICATION, Sentence .3:
  - .1 Change sentence .3 as follows:
    - .3 Apply fireproofing to correspond with tested assemblies, or acceptable calculation procedures to provide the following fire resistant ratings:
      - .1 Ground level assembly (over basement area): 1 hour fire resistance rating – apply spray-on-fireproofing to all steel beams.
      - .2 Second floor level assembly: 1 hour fire resistance rating – apply spray-on-fireproofing to all steel beams.
      - .3 Columns supporting roof assembly: fire resistance rating not required.
      - .4 Roof assembly – fire resistance rating not required.

9. **SECTION 08 11 16 – ALUMINUM DOORS AND FRAMES**

- .1 Paragraph 1.4 – SYSTEM DESCRIPTION, Article .4 – Standard of Acceptance:
  - .1 Change Article .4 to read as follows:
    - .4 Standard of Acceptance:
      - 1. Exterior doors: wide stile with center rail, insulated.
        - .1 Kawneer 560 series (wide stile) Insulclad door;
        - .2 Alumicor 7700 series Thermaporte T600B (wide stile);
        - .3 Prevost Series 2750 Insulated (wide stile) door;
        - .4 Commdoor 560 series Insulated wide stile door;
        - .5 Anotec Series 23 Insuldoor Monumental.
        - .6 or approved equal.
      - 2. Exterior door frames:
        - .1 Kawneer 1600UT, with door adapters;
        - .2 Alumicor Series 2600, with door adapters;
        - .3 Prevost 3400HP, with door adapters;
        - .4 Commdoor 8200HP, with door adapters;
        - .5 Anotec 3400HP, with door adapters;
        - .6 or approved equal.
      - 3. Interior doors: wide stile with center rail.
        - .1 Kawneer 500 series;
        - .2 Alumicor Series 600B;
        - .3 Prevost 2700, wide stile.
        - .4 Commdoor 500 series, wide stile door;
        - .5 Anotec Series 23 Swing Door Monumental
        - .6 or approved equal.
      - 4. Interior door frames: flush glazed, center.
        - .1 Kawneer Trifab 450;
        - .2 Alumicor Series Flush Glaze TL1800;
        - .3 Prevost series 60.
        - .4 Commdoor series 1450 framing system;
        - .5 Anotec Series 60 flush glazed framing.
        - .6 or approved equal.



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## SECTION 08 11 16 – ALUMINUM DOORS AND FRAMES (continued)

- .2 Paragraph 2.1 – MATERIALS, Sentence .9 – Glass:
  - .1 Change item .1 to read:
    - .1 Interior doors and frames: tempered glass to CAN/CGSB – 12.1 as specified in Section 08 80 00.
  - .2 Change item .2 to read:
    - .2 Exterior doors and frames: insulating glass (IG) – Type 1 (Double glazed) as described in Section 08 80 00 – Glazing.
  - .3 Add new Item .12 as follows:
    - .12 Spandrel panels as specified and provided under Section 08 44 13 – Glazed Aluminum Curtainwall.

## 10. SECTION 08 44 13– GLAZED ALUMINUM CURTAIN WALL

- .1 Paragraph 1.2 - RELATED SECTIONS
  - .1 Add new Item .7 as follows:
    - .7 Section 08 51 13: Aluminum Windows.
- .2 Paragraph 2.2 – COMPONENTS,
  - .1 Article .1 – Mullion profile, change Sentence .9 to read as follows:
    - .9 Acceptable products: Kawneer 1600UT; Alumicor Series 2600; Commdoor 8200HP Series; Prevost Series 3400HP; Anotec Series 3400 HP; or approved equal.
  - .2 Article .2 - Spandrel Panels, change Article to read as follows:
    - .2 Spandrel panel: Internally reinforced, glazing edge sealed preventing internal air movement to glazing space inside air barrier line:
      - .1 Spandrel Glass Panel (SGP):
        - .1 Outer Face: 6 mm thick, tinted spandrel glass to CAN/CGSB-12.9 as specified in Section 08 80 00 – Glazing.
        - .2 Core: Mineral wool board curtain wall spandrel insulation, minimum RSI 0.74 per 25 mm thickness as specified in Section 07 21 00 – Building Insulation.
        - .3 Inner Face: 1.6 mm (.063") thick aluminum, anodized finish where exposed to view (mill finish where concealed from view).
      - .2 Metal Spandrel Panel (IMP):
        - .1 Outer Face: 1.6 mm (0.63") thick anodize aluminum facing sheet, adhesive bonded under pressure to plywood, rigid insulation or other core acceptable to Departmental Representative. Anodized finish colour to match curtain wall framing.
        - .2 Core: Mineral wool board curtain wall spandrel insulation, minimum RSI 0.74 per 25 mm thickness as specified in Section 07 21 00 – Building Insulation.
        - .3 Inner Face: 1.6 mm (.063") thick aluminum, anodized finish where exposed to view (mill finish where concealed from view).

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## SECTION 08 44 13– GLAZED ALUMINUM CURTAIN WALL (continued)

- .3 Article .5 - Operable Sash, Sentence .1 - Types: change Item .2 - Casement to read:
  - .2 Outswing Casement.
- .3 Paragraph 2.3 – FABRICATION, Article .6 – Window Vents: Change first sentence to read:  
“...operable Vents, casement and top-hinged open out vents as shown on drawings.”
- .4 Paragraph 2.4 – FABRICATION: INFILL (Spandrel) PANELS:
  - .1 Change Sentence .1 to read as follows:
    - .1 Fabricate Spandrel Panels with metal edge seals around perimeter of panel assembly, enabling installation and minor movement of perimeter seal.
      - .1 Brake form insulation back-up panels from sheet aluminum designed to engage into framing in manner maintaining air and vapour barrier in all locations.
      - .2 Metal spandrel face panels: Fabricate panels to thickness and profile indicated with minimum 1.5 mm thick aluminum facing sheet, adhesive bonded under pressure to plywood or rigid insulation or other core acceptable to Departmental Representative. Exposed face of panel shall be flat, smooth, free of waves, buckles and other defects. Return face sheet at panel edges to back of panel. Provide adhesive bonded panel backing of mill finish aluminum.
- .5 Paragraph 3.2 – INSTALLATION
  - .1 Sentence .1: Delete “...and sloped glazing...”
  - .2 Delete Sentence .7.
- .6 Add Paragraph 3.10 as follows:
  - 3.10 SPANDREL PANEL INSTALLATION
    - .1 At spandrel panel locations, install back-up into framing and seal airtight.
    - .2 Adhere insulation clips to back-up panel at maximum 300 mm o.c both ways; welded clips may be used in lieu of adhesive bonded type, provided pins to not easily break off and weld burn-through does not occur.
    - .3 Apply adhesive to back-up panels and embed insulation boards. Fit boards tightly and accurately, leave no voids or gaps. Place retainer discs over pins, unless noted otherwise provide 100 mm thick insulation.
    - .4 Install metal face panels into framing in accordance with details shown.

## 11. SECTION 08 51 13– ALUMINUM WINDOWS

- .1 Paragraph 1.1 – RELATED REQUIREMENTS:
  - .1 Add new Item .5 and .6 as follows:
    - .5 Section 08 54 13 – Fibreglass Windows.
    - .6 Section 08 44 13 – Glazed Aluminum Curtain Wall.

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## SECTION 08 51 13– ALUMINUM WINDOWS (continued)

- .2 Paragraph 2.1 – SYSTEMS, Article .1 – Window Frame:
  - .1 Change Acceptable Products as follows:
    - .1 Series 6500 (125 mm. deep perimeter frame and mullions) windows by Kawneer Company Canada Ltd.
    - .2 Series 1970 (125 mm. deep perimeter frame and mullions) by Alumicor Limited.
    - .3 Series 1360 (130 mm deep perimeter frame and mullions) insulated window framing system by Prevost.
    - .4 525 Series (127 mm deep perimeter frame and mullions) fixed T.B. Window System by Commdoor.
- .3 Paragraph 2.2 – WINDOW TYPE and CLASSIFICATION, Article .1 - Type: Fixed:
  - .1 Change Sentence .7 to read:
    - .7 Glazing: Insulating Glass (Type 2), triple unit.
  - .2 Delete Sentence .8.
  - .3 Delete Sentence .9.
- .4 Paragraph 2.2 – WINDOW TYPE and CLASSIFICATION: Add new Article .2 – Operable Sash as follows:
  - .2 Operable Sash: to CAN/CSA-A440, extruded aluminum, thermally broken with Insulating Glass – Type 2, Triple Unit. Acceptable Product: Kawneer 526 modified, Alumicor 1350, Prevost 1300, Commdoor 225, or approved equal.
    - .1 Types (see Building Elevation drawings and Window Type Drawings for locations and sizes):
      - .1 Outswing Casement.
      - .2 Glass reinforced nylon 6/6 thermal break.
      - .3 Tubular extrusions, short leg for curtainwall installation.
      - .4 Mitered, clip, adhesive stake joinery (factory fabricated).
      - .5 Full rain screen drainage.
      - .6 40 mm insulated glass-type 2, triple unit, replaceable from interior.
      - .7 Exterior pre-shim rubber gaskets/interior EPDM rubber gaskets.
      - .8 Lock-in glass stop.
      - .9 Limiter on operable sash operator to restrict unit opening to no more than 125 mm.
    - .10 Insect screens to CGSB 79-GP-1M.
      - .1 Type: 1.
      - .2 Class C.
      - .3 Style 2.
      - .4 Insect screening mesh: count 18 x 16, aluminum.
      - .5 Colour: Black.
      - .6 Fasteners: tamper proof.
      - .7 Screen frames: colour to match window frames.
      - .8 Mount screen frames for interior replacement.

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## SECTION 08 51 13– ALUMINUM WINDOWS (continued)

- .5 Paragraph 2.3 – MATERIALS:
  - .1 Change Article .3 – Infill Panel to read as follows:
    - .3 Insulated metal panel (IMP): 90 mm thick, impact resistant, anodized aluminum faced, insulated sandwich panel. “Dark Bronze” anodized finish to match aluminum windows.
      - .1 Outer face: Minimum 1.3 mm (.050”) thick, “dark bronze” anodized aluminum finish.
    - .3 Insulated metal panel (IMP) - continued
      - .2 Core: Polyisocyanurate insulation core with RSI of 1.05 per 25 mm thickness.
      - .3 Inner Face: Minimum 1.0 mm (.040”) thick aluminum with “Dark Bronze” anodized finish where exposed to view, (mill finish where concealed from view).
  - .2 Article .6 – Exterior Sills: Change “...extruded aluminum of type...” to read “preformed aluminum of type...” and change “extruded aluminum end caps” to read “formed aluminum end caps”.
- .6 Paragraph 3.2 – INSTALLATION, Article .2 - Sill Installation:
  - .1 Add new Sentence .6 to read:
    - .6 Provide 2.5 mm thick, preformed anodized aluminum sill flashing at each fiberglass window. Colour to match fiberglass window. Coordinate requirements and installation with fiberglass window installer.

## 12. SECTION 08 54 13 – FIBERGLASS WINDOWS

- .1 Paragraph 1.2 – RELATED REQUIREMENTS:
  - .1 Add new Item .6 as follows:
    - .5 Section 08 51 13: Aluminum Windows.
- .2 Paragraph 2.1 – SYSTEMS, Article .1 - Fiberglass Window Frame:
  - .1 Change “Casement Type” to read: “Outswing Casement Type” and “Double Glazed” to read: “Insulating Glass – Type 2 (Triple Glazed)”.
- .3 Paragraph 2.1 – SYSTEMS, Article .1 - Fiberglass Window Frame, Acceptable products:
  - .1 Change Item .1 to read:
    - .1 Series 300B windows by Cascadia Windows.
  - .2 Clarification: Item .2: Series 325 Windows by Accurate – Dorwin to be Outswing Casement type.
  - .3 Change Item .3 to read:
    - .3 Series 325 windows by InLine Fiberglass.
- .4 Paragraph 2.2 – WINDOW TYPE AND CLASSIFICATION, Article .1:
  - .1 Change Article .1 to read:
    - .1 Type: Fixed, with outswing casement vent. Windows with sealed triple-glazed insulating unit.
  - .2 Change Article .1, Item .7 to read:
    - .7 Glazing: Insulating glass – Type 2, triple unit.

## **SECTION 08 54 13 – FIBERGLASS WINDOWS (continued)**

### **.5 Paragraph 2.3 – MATERIALS, Article .3 Infill Panel:**

#### **.1 Change Article .3 to read:**

.3 Insulated Metal Panel (IMP) 40 mm thick, impact resistant, aluminum faced, insulated sandwich panel with factory applied, oven baked, fluoropolymer finish (minimum 70% Kynar 500 FSF resin by weight in colour coat). Colour to match colour of windows.

.1 Outer Face: Minimum 1.3 mm (.050") thick, aluminum with fluoropolymer finish.

.2 Core: Polyisocyanurate Insulation core with RSI of 1.05 per 25 mm thickness.

.3 Insulated metal panel (IMP) - continued

.3 Inner Face: Minimum 1.0 mm (.040") thick aluminum with fluoropolymer finish where exposed to view. (Mill finish were concealed from view).

#### **.2 Paragraph 2.3 – MATERIALS:**

##### **.1 Add new article.5 – Exterior Sills as follows:**

.5 Exterior Sills: 2.5 mm. thick preformed anodized aluminum sill as specified in Section 08 51 13 – Aluminum Windows. Colour to match window Colour.

#### **.3 Paragraph 2.3 – MATERIALS:**

##### **.1 Add new Article .6 – Insect Screens as follows:**

.6 Insect screens to CGSB 79-GP-1M.

.1 Type 1.

.2 Class C.

.3 Style: 2.

.4 Insect screening mesh: count 18 x 16, aluminum.

.5 Colour: Black.

.6 Fasteners: tamper proof.

.7 Screen frames: colour to match window frames.

.8 Mount screen frames for interior replacement.

### **.6 Paragraph 2.6 – GLAZING, Article .2:**

#### **.1 Change Article .2 as follows:**

.2 Insulating Glass – Type 2, Triple Unit: as described in Section 08 80 00 – Glazing.

## **13. SECTION 08 71 00 – DOOR HARDWARE**

### **.1 Paragraph 2.2 DOOR HARDWARE, Article .3 - Hinges Butts and hinges:**

.1 Sentence .11 Standard of Acceptance, Specified and Acceptable Alternates, Item .2: Add Dorma/PBB to acceptable alternates.

.2 Item .3: Specified product McKinney TA2714, add Dorma PBB BB81.

.3 Item .4: Specified product McKinney TA2314, add Dorma PBB BB51.

.4 Item .5: Specified product McKinney TA3786, add Dorma PBB 4B81.

.5 Item .6: Specified product McKinney TA3386, add Dorma PBB 4B51.

**SECTION 08 71 00 – DOOR HARDWARE** (continued)

- .2 Paragraph 2.2 DOOR HARDWARE, Article .4 – Continuous geared hinges:
  - .1 Sentence .13 Standard of Acceptance, Specified and Acceptable Alternates, Item .2: Add Dorma/ABH to acceptable alternates.
  - .2 Item .3: Specified product McKinney MCK-12HD, add Dorma ABH A110HD.
- .3 Paragraph 2.2 DOOR HARDWARE, Article .5 – Mortise locks and latches:
  - .1 Sentence .18 Standard of Acceptance, Specified and Acceptable Alternates, Item .2: Add Dorma to acceptable alternates.
  - .2 Item .3: Specified product Sargent 8200, add Dorma M9000.
- .4 Paragraph 2.2 DOOR HARDWARE, Article .6 – Exit devices:
  - .1 Sentence .15 Standard of Acceptance, Specified and Acceptable Alternates, Item .2: Add Dorma to acceptable alternates.
  - .2 Item .3: Specified product Sargent 8800 - Series, add Dorma 9300.
  - .3 Item .4: Specified product Sargent 8700 - Series, add Dorma 9400.
  - .4 Item .5: Specified product Sargent 8600 - Series, add Dorma 9100.
  - .5 Item .6: Specified product Sargent 8500 - Series, add Dorma 9700.
  - .6 Item .7: Specified product Sargent 8400 - Series, add Dorma 9600.
- .5 Paragraph 2.2 DOOR HARDWARE, Article .9 – Door controls – overhead stop:
  - .1 Sentence .9 Standard of Acceptance, Specified and Acceptable Alternates, Item .2: Add Dorma/ABH to acceptable alternates.
  - .2 Item .3: Specified product Rixson # 1 (concealed), add Dorma ABH 1000.
  - .3 Item .4: Specified product Rixson # 9 (surface), add Dorma ABH 9000.
  - .4 Item .5: Specified product Rixson # 55 (surface), add Dorma ABH 4420.
- .6 Paragraph 2.2 DOOR HARDWARE, Article .11 – Power assist and low energy power operated doors:
  - .1 Sentence .10 Standard of Acceptance, Specified and Acceptable Alternates, Item .2: Add Dorma Kaba to acceptable alternates.
  - .2 Item .3: Specified product Gyro-Tech GT20, add Dorma ED400.
- .7 Paragraph 2.2 DOOR HARDWARE, Article .14 – WiFi Access Control Mortise Locks:
  - .1 Sentence .12 Standard of Acceptance:
  - .2 Item .2: Specified product IN120, add to Acceptable Alternates - Dorma Kaba E-Plex (Need to be able to hardwire for power).
- .8 Paragraph 2.2 DOOR HARDWARE, Article .15 – Power Supplies:
  - .1 Sentence .10 Standard of Acceptance, Item .2: Add Dorma//RCI to acceptable alternates.
  - .2 Item .3: Specified product Securitron BPS, add to Acceptable Alternates - Dorma /RCI 10.
- .9 Paragraph 2.2 DOOR HARDWARE, Article .16 – Key Switches:
  - .1 Sentence .5 Standard of Acceptance, Item .2: Add Dorma//RCI to acceptable alternates.
  - .2 Item .3: Specified product Securitron MKA, add to Acceptable Alternates - Dorma /RCI 900.



## SECTION 08 71 00 – DOOR HARDWARE (continued)

- .10 Paragraph 2.2 DOOR HARDWARE, Article .17 – Door Status Switch:
  - .1 Sentence .4 Standard of Acceptance, Item .2: Add Dorma//RCI to acceptable alternates.
  - .2 Item .3: Specified product Sargent 3287, add to Acceptable Alternates - Dorma /RCI DPS.
- .11 Paragraph 3.10 HARDWARE SCHEDULE: changes to Hardware sets as follows:
  - .1 Hardware **Set 14.0** to have Closer EN1431-O added.
  - .2 Hardware **Set 29.0** to have Door Position Switch added to be supplied by the Electrical Contractor and frame prepared by frame supplier.
  - .3 Hardware **Set 28.0** to have wall mounted Electromagnetic Holder EN1561 x 120 VAC added.
- .12 Table DOOR INDEX: changes as follows:
  - .1 Door (003) will now swing into Storage (003). Change Hardware from “Set 15.0” to “**Set 16.0**”.
  - .2 Doors (D100), (C100), (B100), (C200) and (D200) will now swing out from residential wings.
    - .1 Door (C200): Change Hardware from “Set 23.0” to “**Set 24.0**”.
    - .2 Hardware set for other doors remain the same.
  - .3 Doors (008), (011), (003), (004), (005) and (A108) will be fire-rated.
    - .1 Doors (004) and (008): Change Hardware from “Set 13.0” to “**Set 16.0**”.
  - .4 Doors (C113), (D113), (B213), (C213) and (D213) are to have Door Position Switches added. Hardware Set 29.0 to have Door Position Switch added to be supplied by Electrical Contractor and frame prepared by frame supplier.
  - .5 Door (A105) to have card access added. Change Hardware from “Set 6.0” to “**Set 24.0**”. Door (A105) is not STC rated and will not require sound seals.
  - .6 Door (A112) requires passage function. Change Hardware from “Set 8.0” to “**Set 7.0**”
  - .7 Doors (C114), (D114), (B214), (C214) and (D214) are required to be held open at certain times. Hardware Set 28.0 to have wall mounted electromagnetic holder.

## 14. SECTION 08 80 00 – GLAZING

- .1 Paragraph 2.1 – MATERIALS: FLAT GLASS, Article .4 - Low emissivity (Low E) Glass:
  - .1 Sentence .4 - Acceptable Product, Add new Item. 3 as follows:
    - .3 Cardinal LOE 272 by Prelco.
- .2 Paragraph 2.2 – MATERIALS: SEALED INSULATING GLASS:
  - .1 Article .1 - Insulating Glass units (IG) – Type 1:
    - .1 Change Item .1 to read:
      - .1 Glass: to CAN/CGSB- 12.1 – see insulating glass units descriptions.
    - .2 Item .6, sub-item .1 - IG: Change Outer Light standard from “CAN/CGSB- 12.4” to read “CAN/CGSB-12.1”.

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**SECTION 08 80 00 – GLAZING (continued)**

- .2 Article .2 - Insulating Glass Units (IG) – Type 2:
  - .1 Change Item .1 to read:
    - .1 Glass: to CAN/CGSB – 12.3 – See insulating glass unit descriptions.

**15. SECTION 09 21 16 – GYPSUM BOARD**

- .1 Paragraph 3.8 – GYPSUM BOARD SCHEDULE: Add new Sentence .5 to read:
  - .5 Use 16 mm. thick Gypsum Board – Moisture Resistant Board (Type 4) at gypsum board partitions with ceramic tile wall finishes.

**16. SECTION 09 30 13 – CERAMIC TILE**

- .1 Paragraph 2.2 – WALL TILE, Sentence .4 – CT2.4 Porcelain wall tile:
  - .1 Add the following product to sub-sentence .1 Acceptable material:
    - .4 Vilar Albar Colores 4x12, distributed by Elegant Flooring.
- .2 Paragraph 2.2 – WALL TILE, Sentence .5 – CT2.5 Porcelain wall tile:
  - .1 Add the following product to sub-sentence .1 Acceptable material:
    - .4 Vilar Albar Colores 4x12, distributed by Elegant Flooring.
- .3 Paragraph 2.6 – ACCESSORIES, Sentence .5 – Ceramic accessories:
  - .1 Change sentence to read as follows:
    - .5 Ceramic accessories: soap holder, surface mounted, 150mm x 150 mm face dimension, colour “white”. Provide one (1) soap holder in each shower, location to be determined on site.
- .4 Part 2 – PRODUCTS: Add new Paragraph 2.9 –Waterproofing Membrane as follows:
  - 2.9 **WATERPROOFING MEMBRANE**
    - .1 Sheet waterproofing membrane: to ANSI A118.10; 8 mil thick, sheet applied polyethylene waterproofing membrane laminated with polypropylene fleece both sides of sheet.
    - .2 Sheet waterproofing accessories: seams and corners material, 4 mil thick, polyethylene membrane laminated with polypropylene fleece both sides.
    - .3 Acceptable products:
      - .1 KERDI waterproofing membrane by Schluter Systems;
      - .2 or equal product by other accepted manufacturers.
- .5 Part 3 – EXECUTION: Add new Paragraph 3.10 – Waterproofing Membrane as follows:
  - 3.10 **WATERPROOFING MEMBRANE**
    - .1 Apply waterproofing membrane to showers with ceramic tile wall finish.
    - .2 Ensure wall substrate is clean, level and dust-free.
    - .3 After application of thin-set mortar, apply sheet waterproofing membrane to walls in accordance with manufacturer's written instructions.
    - .4 Adhere sheet waterproofing fully into thin-set in continuous smooth movements taking care to avoid air bubbles.
    - .5 Overlap seams minimum of 50 mm. as per manufacturer's written installation instructions.
    - .6 Use preformed waterproofing sheet at inside and outside corners.
    - .7 Extend waterproofing membrane from floor to full height of tile application.
    - .8 Allow for set of thin-set and waterproofing membrane before commencing application of wall tile.

17. **SECTION 09 65 16 – RESILIENT SHEET FLOORING**

.1 Paragraph 2.1 – MATERIALS:

.1 Add new Article .13 as follows:

.13 Liquid-applied waterproofing: single component, self-curing, liquid applied rubberized compound that forms seamless waterproofing membrane.

.1 For application in locations scheduled for resilient flooring RFL2.

.2 Acceptable products: Hydro Ban, by Laticrete, or equal product by MAPEI, Flextile or others.

.2 Add new Article .14 as follows:

.14 Cementitious underlayment: cementitious powder mixes with water to form self-leveling underlayment mortar.

.1 For application in locations scheduled for resilient flooring RFL2.

.2 Acceptable products: 86 Latilevel by Laticrete, or equal product by MAPEI, Flextile or others.

.3 Add new Article .15 as follows:

.15 Accessories:

.1 Cove former: preformed material to transition sheet flooring at coved floor-to-wall junctions. Sized to suit application. Acceptable products: Altro cove former, or equal product by other manufacturers.

.2 Cap strip: preformed strip to terminate edge of coved resilient sheet flooring at junction with ceramic wall tile. Acceptable products: Altro C-8 capstrip, or equal product by other manufacturers.

.3 Adhesives for installing accessories: as recommended by sheet flooring manufacturer.

.2 Part 3 – EXECUTION: add new Paragraphs 3.9 and 3.10 as follows:

3.9 **RESILIENT FLOORING (RFL2) IN WASHROOMS WITH SHOWERS**

.1 Ensure substrate is clean, level and free of dust and other deleterious materials.

.2 Apply liquid-applied waterproofing membrane over concrete floor substrate in accordance with manufacturer's written instructions. Extend membrane 100 mm. over waterproofing sheet applied on wall. Allow membrane to cure.

.3 Install cementitious self-levelling underlayment, in accordance with manufacturer's written instructions, over cured waterproofing membrane.

.4 Install resilient sheet flooring as per manufacturer's written installation instructions. Install appropriate preformed accessories at floor-to-wall cove junction and at termination of top edge of sheet flooring at coved base.

3.10 **FORMED COVE BASE**

.1 Where resilient sheet flooring is coved up wall surfaces and other abutments, install in accordance with flooring manufacturer's written instructions.

.2 Use preformed cove former as recommended by manufacturer to achieve appropriate radiused cove transition at floor-to-wall junctions.

.3 Terminate top edge of sheet flooring with preformed cap strip, sized to suit abutting wall finish materials.

.4 Apply accessories with manufacturer's recommended adhesives.

18. **SECTION 10 28 13 – WASHROOM ACCESSORIES**

- .1 Paragraph 2.2 – COMPONENTS, Sentence .3 – Grab bars: change length of GB 3 from 650 mm L. to read “ 750 mm L.”
- .2 Paragraph 2.2 – COMPONENTS, Sentence .7 – Hand Dryers:
  - .1 Add the following new sentence:
    - .5 Acceptable products and manufacturers:
      - .1 Dyson Wall Mounted V.
      - .2 World Dryer VerdiDri Q-973P, wall mounted.
      - .3 “ExtremeAir” wall mounted, by American Dryer.
      - .4 or other approved equal.
- .3 Paragraph 2.2 – COMPONENTS, Sentence .9 – Towel Bars, item 1.3:
  - .1 Change Bradley model specified to read: “ **832-2** series by Bradley”.
- .4 Paragraph 3.3 – SCHEDULE, Sentence .3 – Sanitary napkin disposal bin:
  - .1 Change last room number in list to read: “ **204**”.

19. **SECTION 14 20 06 – PASSENGER ELEVATOR**

- .1 Delete specification section dated July 8, 2015 issued with tender set entirely and replace with revised Section 14 20 06 – PASSENGER ELEVATOR dated November 21, 2015 (14 pages) issued by this Addendum.

20. **SECTION 22 42 01 – PLUMBING SPECIALTIES AND ACCESSORIES**

- .1 Add item 2.15, “ROOF DRAINS”.
- .2 Add item 2.15.1, “Refer to schedule on drawings.”
- .3 Add item 2.15.2, “Acceptable manufacturers: Watts, Zurn, Jay R. Smith, Mifab”

21. **SECTION 23 81 40 - HEAT PUMP SYSTEM**

- .1 Refer to 2.4.2, replace “50mm” with “25mm”

22. **SECTION 21 13 13 – WET PIPE SPRINKLER SYSTEM**

- 1. Add item 1.4.11.1 as follows, “A flow test completed on or around November 15, 2015 in the vicinity of 10 Morris Drive indicated a static pressure of 96 psi and residual pressures of 91 psi at 797 USGPM and 89 psi at 1479 USGPM.”

23. **SECTION 25 00 00 – BUILDING AUTOMATION SYSTEM**

- 1. Add the following to item 1.3.1, “KMC”.
- 2. Delete item 1.4.1.6.
- 3. Add item 2.21, “CONTROL VALVES”.
- 4. Add item 2.21.1, “Provide control valves as shown on drawings and details.”
- 5. Add item 2.21.2, “Bronze body, all trim to be 316 SST.”
- 6. Add item 2.21.3, “Valves to provide tight shut-off. Maximum leakage of 0.5% of rated flow.”
- 7. Add item 2.21.4, “Rangeability of valves to be minimum 50:1.”
- 8. Add item 2.22, “ELECTRONIC/ELECTRIC VALVE ACTUATORS”.
- 9. Add item 2.22.1, “Provide electronic/electric valve actuators with spring return to normal positions. Normal positions to be verified at shop drawing review phase.”
- 10. Add item 2.22.2, “Construction to be steel, cast iron, or case aluminum.”
- 11. Add item 2.22.3, “Control voltage to be 0-20VDC or 24 VAC.”
- 12. Add item 2.22.4, “Positioning time to suit application.”

## **DRAWINGS:**

### **1. DRAWING A2.0 WALL AND PARTITION TYPES, NOTES AND ABBREVIATIONS**

- .1 Exterior Wall Assemblies: Type W3 – Prefinished Wood Siding (Horizontal):
  - .1 Change spacing of 19 x 89 continuous wood strapping (vertical) from “600 o.c. max.” to “400 o.c. max.”

### **2. DRAWING A2.1 BASEMENT LEVEL FLOOR PLAN & DRAWING A4.1 BASEMENT LEVEL DETAILED LAYOUT**

- .1 Change swing of Door (003) to swing into Storage (003). See 08 71 00 – change in door hardware.
- .2 Change fire separation rating on demising walls of Janitor Storage (005) from (FS) to (1 Hr).
- .3 For metal storage shelving layouts for Storage (003), Seasonal Storage (004) Janitor Storage (005), Residential Storage (006), Seasonal Storage (008) and Admin. Secure Storage (009) see Details A203, A204, A205, A206 and A207 issued by Addendum.

### **3. DRAWING A2.2 GROUND LEVEL FLOOR PLAN**

- .1 Change swing of Door (D100), (C100) and (B100) to swing out into Common Area (101). See 08 71 00 of this Addendum for changes in door hardware.
- .2 Partitions around Secure File Room (A106) are security partition with 1 hour fire resistance rating – see Detail A402 issued by Addendum.
- .3 Provide asphalt paved outdoor seating area on south side of building in area bounded by grid lines J and L - See sketch A208 issued by Addendum. Extend concrete pad at door (X105) to provide sloped access to paved area as per sketch.

### **4. DRAWING A2.3 SECOND LEVEL FLOOR PLAN**

- .1 Change swing of Door (D200), (C200) and (B200) to swing out into Common Area (200) / Socialization Activity (201). See 08 71 00 of this Addendum for changes in door hardware.

### **5. DRAWING A2.4 ROOF PLAN**

- .1 See Detail A804 for part plan of prefinished metal roofing and valley – Grid line “J”.

### **6. DRAWING A2.5 DOOR SCHEDULE, DOOR TYPES AND JAMB DETAILS**

- 1. Abbreviations Tables:
  - .1 Add: “AG – Acoustic Glass”.
- 2. Door Types:
  - .1 Add: Door Type “D” – Acoustic Door with Glazed Light. See sketch A209 issued with this Addendum.
- 3. Door schedule:
  - .1 Door numbers 003, 004, 005, 008, 010 and 011: Change Door and Frame Fire Label to read “3/4 Hr.”
  - .2 Door numbers 003, 004, 005, 008 and 009: Change Frame Type to read “4”.
  - .3 Door number 005: Change Remarks to read “Door grille with rated fire damper”.
  - .4 Door numbers 003, 004 and 008: Change glass type to “WG”.
  - .5 Door number 012: Change Door and Frame Fire Label to read “Labelled”.
  - .6 Door number X 100 at Entrance Vestibule (100) – See Detail A201 for Aluminum Entrance – window type WII (issued by earlier addendum).

- .3 Door Schedule (continued)
  - .7 Door number 100 at entrance to Vestibule (100) – see Detail A202 for Aluminum screen type S3 (Detail issued by earlier Addendum).
  - .8 Door 106 at Interview Room: Change to Door Type “D”– see sketch A209. Change Material to “HM”. Change glass type to “AG”.
  - .9 Door 111 at Program Room (111) does not require to be alarmed or to have door contacts. Delete Remarks referring to alarmed door and door contacts. Change to Door Type “D” – see sketch A209. Change glass type to “AG”.
  - .10 Door numbers A100, A101, A102, A103 and A104: Change to Door Type “D”. Change glass type to “AG”.
  - .11 Door number A108: Change Material to “HM”. Change Door Finish to “P”. Change Door and Frame Fire Label to read “3/4 Hr.” Change Frame Type to read “4”.
  - .12 Door numbers B103, B104, B105, B106, B107, B108, B111, and B112: Change to Door Type “D” – see sketch A209. Change glass type to “AG”.
  - .13 Door numbers B109, and B110: Change glass type to “TG”.
  - .14 Door number C100: Change to Door Type “D”. Change glass type to “WG”.
  - .15 Door numbers D100, B200, C200 and D200: Change to Door Type “D”.

7. **DRAWING A2.6 DOOR SCHEDULE AND EXTERIOR WINDOW ELEVATIONS**

- 1. Detail 2/A2.6 – Exterior window types: - Entrance Vestibule (100).
  - .1 See Detail A201 – for window types II and 12 Detail issued by previous Addendum.

8. **DRAWING A2.7 INTERIOR DOOR FRAME / SCREEN FRAME PROFILES AND DETAILS**

- 1. Detail 4/A2.7 – Change detail title to read:
  - .1 “Frame Profile 5 – screen type S3.” See Detail A202 for screen type S3 – Entrance Vestibule (100). Detail issued by previous Addendum.

9. **DRAWING A3.1 ELEVATIONS**

- 1. 1/A3.1 – North Elevation:
  - .1 See detail A201 for window type W12 – Entrance Vestibule (100). Detail issued by previous Addendum.
- .2 2/A3.1 – East Elevation:
  - .1 Change Fiberglass window type “W4” shown on between grid lines ‘8’ and ‘9’ (second level) to read: “W2”.

10. **DRAWING A3.4 BUILDING SECTIONS**

- 1. 1/A3.4 – Cross Section (Finish Floor Ground Level).
  - .1 Security Office (103) – See Detail 6/A2.7 for screen type S5.
  - .2 Program Room #1 (111) – See Detail 5/A2.7 for screen type S4 (2 total).

11. **DRAWING A4.1 BASEMENT LEVEL DETAIL LAYOUT**

- .1 Change fire separation rating on side walls of Janitor Storage (005) from (FS) to (1 Hr).
- .2 Change partition types on side walls of Janitor Storage (005) from (P2) to (P4).



12. **DRAWING A4.2 GROUND LEVEL DETAIL LAYOUTS**

1. 1/A4.2 – Ground Level Detailed Layout – Centre, North & West PODS.
  - .1 Security Office (103): Change screen type S6 to read “S5” (South wall) – See Detail 6/A2.7 for screen type S5.
  - .2 Change swing of Door (D100) to swing out into Common Area (101). See 08 71 00 of this Addendum for change in door hardware.
  - .3 Partitions around Secure File Room (A106) are security partition with 1 hour fire resistance rating – see Detail A402 issued by Addendum.

13. **DRAWING A4.3 GROUND LEVEL DETAILED LAYOUTS**

1. 1/A4.3 – Ground Level Detail Layout – South POD.
  - .1 Change swing of Door (C100) to swing out into Common Area (101). See 08 71 00 of this Addendum for change in door hardware.
2. 2/A4.3 – Ground Level Detail Layout – Centre & East POD.
  - .1 Program Room #1 (111): Clarification – See Detail 5/A2.7 for screen type S4 (2 total) (South Wall).
  - .2 Change swing of Door (B100) to swing out into Common Area (101). See 08 71 00 of this Addendum for change in door hardware.

14. **DRAWING A4.4 SECOND LEVEL DETAILED LAYOUTS**

1. 1/A4.4 – Second Level Detail Layout – Centre & West POD.
  - .1 Change swing of Door (D200) to swing out into Common Area (200). See 08 71 00 of this Addendum for change in door hardware.

15. **DRAWING A4.5 SECOND LEVEL DETAILED LAYOUTS**

1. 1/A4.5 – Second Level Detail Layout – South POD.
  - .1 Change swing of Door (C200) to swing out into Common Area (200). See 08 71 00 of this Addendum for change in door hardware.
2. 2/A4.5 – Second Level Detail Layout – East POD.
  - .1 Change swing of Door (B200) to swing out into Socialization/Activity (201). See 08 71 00 of this Addendum for change in door hardware.

16. **DRAWING A8.0 PARTITION DETAILS**

- .1 See Details A801 to A803 for exterior wall steel stud framing – typical for all exterior steel stud wall assemblies.

17. **DRAWING A8.3 SECTION DETAILS**

1. Detail 5/A8.3 – Section Typical Lower Eave: See Detail A801 (SIM) for gutter and downspout (issued by this Addendum).
2. Detail 7/A8.3 – Section – Typical Window Sill Upper Level:
  - .1 Change prefinished metal sill to read: “2.5 mm thick preformed anodized aluminum sill flashing (typical) – profile to match aluminum sill shown on detail 9/A8.3.
  - .2 Change double glazed infill panel in fiberglass window unit to insulated metal (infill) panel (IMP).

18. **DRAWING A8.4 SECTION DETAILS**

1. Details 2, 3 and 4/A8.4 – Section Details:
  - .1 Change spandrel glass with insulated back pan to read: “Insulated Metal (Spandrel) Panel (IMP).”

19. **DRAWING A8.5 SECTION DETAILS**

1. Detail 6/A8.5 – Fiberglass Window in Wood Cladding:
  - .1 Jamb Detail: Change prefinished metal sill flashing (below) to read: “preformed anodized aluminum sill flashing (below).”
  - .2 Sill Detail:
    - .1 Add note to read: “2.5 mm thick preformed anodized aluminum sill flashing (typical).” Change Sill profile to match aluminum sill shown on Detail 5/A8.5.
    - .2 Change double glazed infill panel in fiberglass window unit to insulated metal (infill) panel (IMP).
2. Detail 7/A8.5 – Fiberglass Window in Metal Cladding:
  - .1 Jamb Detail – add note to read: “preformed anodized aluminum sill flashings (below).”
  - .2 Sill Detail:
    - .1 Add note to read: “2.5 mm thick preformed anodized aluminum sill flashing (typical)”. Change sill profile to match aluminum sill shown on Detail 5/A8.5.
    - .2 Change double glazed infill panel in fiberglass window unit to insulated metal (infill) panel (IMP).

20. **DRAWINGS A8.3 to A8.5 – SECTION DETAILS & A8.12 – ROOF DETAILS**

- .1 See Details A801 to A803 for Exterior Wall Steel Stud Framing – Typical for all exterior steel stud wall assemblies.
- .2 Provide 75 mm. thick exterior wall insulation to interior side of exterior plywood sheathing (between steel studs) – typical for all exterior steel stud wall assemblies.

21. **DRAWINGS A8.6 to A8.8 – EXTERIOR PLAN DETAILS**

- .1 Provide 75 mm. thick exterior wall insulation to interior side of exterior plywood sheathing (between steel studs) – typical for all exterior steel stud wall assemblies.

22. **DRAWING S1.0**

1. Top of footings revised - See “clouded area” on Sketch SKS1.0-1 rev 0.

23. **DRAWING S3.2**

1. Section 32D
  1. Change T/F 96.100 to T/F 95.500
  2. Change vertical dimension from 300 to 900
  3. Change vertical dimension from 3520 to 4120

24. **DRAWING S3.2**

1. Section 33B
  1. Change vertical dimension from 300 to 900
  2. Change T/F 96.100 to T/F 95.500
  3. Change vertical dimension from 4375 to 4975

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EC016-160846/A

Amd. No. - N° de la modif.  
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Buyer ID - Id de l'acheteur  
pwb020

Client Ref. No. - N° de réf. du client  
R.035143.001

File No. - N° du dossier  
PWB-5-38048

CCC No./N° CCC - FMS No./N° VME

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**DRAWING S3.2 (continued)**

- 2. Section 33C
  - 1. Change vertical dimension from 3900 to 4500
  - 2. Change T/F 96.100 to T/F 95.500

25. **DRAWING H2.1 MECHANICAL BASEMENT LEVEL HEATING**

- 1. Add detail 1 as per H205.
- 2. Add note as per H205.

26. **DRAWING F2.1 MECHANICAL BASEMENT LEVEL FIRE PROTECTION**

- 1. Modify legend as per F204.

27. **DRAWING F2.2 MECHANICAL GROUND LEVEL FIRE PROTECTION**

- 1. Modify legend as per F204.

28. **DRAWING F2.3 MECHANICAL SECOND LEVEL FIRE PROTECTION**

- 1. Modify legend as per F204.

29. **DRAWING V6.1 MECHANICAL VENTILATION SCHEDULES**

- .1 Refer to VRF FAN COILS Schedule, modify as per V603.

30. **DRAWING P6.1 MECHANICAL PLUMBING SCHEDULES**

- .1 Refer to **PLUMBING FIXTURE SCHEDULE**
  - .1 Replace P-6 COMMENTS with the following:  
"THERMOSTATIC/PRESSURE BALANCE SHOWER CONTROL c/w MODEL 153-ACP WALL MOUNTED HAND SPRAY WITH 1220mm SLIDE BAR. SHOWER TO BE COMPLETE WITH MIFAB F11-FC FLOOR DRAIN OR EQUIVALENT COMPLETE WITH SURFACE MEMBRANE CLAMP AND TRAP PRIMER CONNECTION, 175mm DIA., SUITABLE FOR SHEET FLOORING. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR FURTHER INFORMATION."
  - .2 Replace P-7 COMMENTS with the following:  
"THERMOSTATIC/PRESSURE BALANCE SHOWER CONTROL c/w SHOWER HEAD. SHOWER TO BE COMPLETE WITH MIFAB F11-FC FLOOR DRAIN OR EQUIVALENT COMPLETE WITH SURFACE MEMBRANE CLAMP AND TRAP PRIMER CONNECTION, 175mm DIA., SUITABLE FOR SHEET FLOORING. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR FURTHER INFORMATION."
- .2 Refer to **DRAIN SCHEDULE**
  - .1 Add the following in the REMARKS column for FD and FFD:  
", WHERE SHEET FLOORING TO BE INSTALLED, FLOOR DRAIN TO BE PROVIDED WITH SURFACE MEMBRANE CLAMP. REFER TO ARCHITECTURAL DRAWINGS."

## **DRAWING P6.1 MECHANICAL PLUMBING SCHEDULES (continued)**

### **.2 DRAIN SCHEDULE (continued)**

.2 Add new row in schedule with information as follows:

- DESIGN. to be "RD"
- SERVICE to be "ROOF DRAIN"
- MFGR./MODEL to be "WATTS RD-100"
- REMARKS to be "C/W ALUMINUM DOME, SUMP RECEIVER, UNDERDECK CLAMP, FLASHING CLAMP DEVICE WITH INTEGRAL GRAVEL STOP"

### **31. DRAWING E3.1 – GROUND LEVEL LIGHTING**

1. Reference note 3 for elevator and elevator lighting disconnect switches.
2. Add note 3 as follows: "ELEVATOR AND ELEVATOR LIGHTING DISCONNECTS ARE TO BE FUSED AND C/W AUXILIARY STATUS CONTACTS. RUN 2-#12AWG+#12 BOND IN EMT FROM DISCONNECT SWITCHES TO ELEVATOR CONTROLLER. COORDINATE FUSE SIZES AND TYPES WITH ELEVATOR SHOP DRAWINGS".

### **32. DRAWING E4.2 – GROUND LEVEL LIGHTING**

1. Revise six (6) recessed downlights in bulkhead of Reception 102 to type "L14".
2. Revise undercounter fixture in Staff Room A112 to type "L11".

### **33. DRAWING E5.1 – BASEMENT LEVEL SYSTEMS**

1. Smoke detector in elevator closet is to reference note 3.
2. Add one (1) smoke detector adjacent elevator door and reference note 3.
3. Add note 3 as follows: "SMOKE DETECTORS IN ELEVATOR LOBBY AND IN ELEVATOR CLOSET ARE TO BE COMPLETE WITH RELAY BASES. RELAY BASES ARE TO BE HARDWIRED TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL PURPOSES".
4. Revise note associated with fire alarm relays shown in elevator machine room to "SEE NOTE 4".
5. Add note 4 as follows: "COORDINATE EXACT FIRE ALARM RELAY REQUIREMENTS WITH ELEVATOR SHOP DRAWINGS AND ELEVATOR INSTALLER".

### **34. DRAWING E5.2 – GROUND LEVEL SYSTEMS**

1. Revise note 5 to read: "GROUND LEVEL IS THE PRIMARY ELEVATOR RECALL FLOOR, SMOKE DETECTOR IS TO BE COMPLETE WITH RELAY BASE AND IS TO BE HARDWIRED TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL PURPOSES."
2. Add two (2) fire alarm relays at doors C114 and D114 for release of electromagnetic door hold-open devices. Feed door hold-open devices from nearest 15A receptacle circuit.

### **35. DRAWING E5.3 – SECOND FLOOR SYSTEMS**

1. Delete "REX" symbol at entrances to residential pods B200, C200 and D200.
2. Smoke detectors at top of elevator shaft and at elevator lobby are to reference note 4.
3. Revise note 4 to read: "SECOND LEVEL IS THE SECONDARY ELEVATOR RECALL FLOOR, SMOKE DETECTOR AT ELEVATOR LOBBY AND AT TOP OF ELEVATOR SHAFT ARE TO BE COMPLETE WITH RELAY BASES AND ARE TO BE HARDWIRED TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL PURPOSES."

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EC016-160846/A

Amd. No. - N° de la modif.  
008

Buyer ID - Id de l'acheteur  
pwb020

Client Ref. No. - N° de réf. du client  
R.035143.001

File No. - N° du dossier  
PWB-5-38048

CCC No./N° CCC - FMS No./N° VME

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**DRAWING E5.3 – SECOND FLOOR SYSTEMS (continued)**

4. Add three (3) fire alarm relays at doors B214 C214 and D214 for release of electromagnetic door hold-open devices. Feed door hold-open devices from nearest 15A receptacle circuit.
5. Add one (1) Card Reader, one (1) electric Strike and one (1) Door Contact at door A105.

36. **DRAWING E6.1 – POWER RISER DIAGRAM**

1. Revise panel RP.13 to RP.11
2. Revise panel RP.13A to RP.11A
3. Revise panel RP.24 to RP.21
4. Revise panel RP.24A to RP.21A
5. Revise disconnect switch for elevator to be fused and c/w auxiliary contact.
6. Add note 4 as follows: "RUN 2-#12AWG+#12AWG BOND IN EMT FROM DISCONNECT SWITCH AUXILIARY CONTACT TO ELEVATOR CONTROLLER, COORDINATE FINAL FUSE SIZE AND TYPE WITH ELEVATOR SHOP DRAWINGS."

37. **DRAWING E6.8 – LIGHTING FIXTURE SCHEDULE**

1. L4 – Add manufacturer and Catalog No. "PEERLESS ELECTRIC SDLC-L3-24G-30-40K-OPACF-MV-D1".
2. L5 – Revise manufacturer and Catalog number from "CREE LIGHTING ZR2450L40K10VFD" to "PEERLESS ELECTRIC SDLC-L3-24G-48-40K-OPACF-MV-D1".
3. L7 – Add manufacturer and catalog number "PEERLESS ELECTRIC LACH3-24G-3000L-30K-12-MV-D1".
4. L8 – Add manufacturer and catalog number "LACH3-24G-30L-40K-12-MV-D1".

38. **DRAWING E6.12 – FIRE ALARM AND SPECIAL SYSTEMS RISER DIAGRAMS**

1. Delete basement level CCTV camera shown on detail 2
2. Revise wiring for P.A. speakers to "PLENUM RATED 2C-#18 SHIELDED IN EMT" on detail 2

39. **DRAWING E6.13 – ACCESS CONTROL AND SECURITY SYSTEM DETAILS AND RISER DIAGRAM**

1. Add one (1) Card Reader, one (1) electric Strike and one (1) Door Contact at door A105 and associated door controller to riser diagram
2. Add door A105 to door list on detail 3.