

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

Clarification:

1. **Question:** Can you please clarify the paint finishes? What is P1 Finish.
Response: P1 is paint colour one. The specific colour will be confirmed post tender award.
2. **Question:** Please provide electrical specifications & light schedule.
Response: Refer to specification section 26 50 00 Lighting, 2.4, .1 for Light schedule.
3. **Question:** Can you confirm that Floor to deck height?
Response: The height from Floor to underside of slab is 3405mm.

Specifications:

1. Specification section 23 38 16.13, 2.1 replace item .3 with the following: ".3 Fume Hood Base Cabinets"
".3 Fume Hood Base Cabinets"
 - .1 General
 - .1 All new fume hoods and the biological safety cabinet shall be supplied with fixed base cabinets for storage of acids, bases and flammable liquid containers. Base cabinets shall also be provided for the owner supplied fume hood #12.
 - .2 Acid or Base Storage Cabinets
 - .1 Storage cabinets shall be composed of two (2) side frames, a lower base, an upper base and height adjustable shelves. Cabinets shall be constructed of melamine resin flat pressed board, plastic-coated on both sides, 19mm thick. Alternatively, cabinets can be constructed of painted 18 gauge steel with a 5mm polypropylene all welded one piece interior lining. Cabinets shall have adjustable shelving. Each unit to have double doors complete with dust moulding and have a safety identification tag indicating "Acid" or "Base". Refer to architectural drawings for elevation views of the under fume hood storage cabinets.
 - .2 Storage cabinets shall be 900mm in width for all new fume hoods and the biological safety cabinet. Provide additional filler sections as required for the owner supplied fume hood so as to have a uniform appearance as compared to the new fume hood base cabinet assembly. Refer to attached sketch MD.1 for fume hood schedule identifying the number of cabinets required.

.3 Flammable Storage Cabinets

.1 Flammable Storage cabinets shall be composed of two (2) side frames, a lower base, an upper base and height adjustable shelves. Cabinets shall be constructed in accordance with ULC/ORD-C175. Each unit to have double doors and have a safety identification tag indicating "Flammable". Refer to architectural drawings for elevation views of the under fume hood storage cabinets.

.2 Storage cabinets shall be 900mm in width for all new fume hoods and the biological safety cabinet. Provide additional filler sections as required for the owner supplied fume hood so as to have a uniform appearance as compared to the new fume hood base cabinet assembly. Refer to attached sketch MD.1 for fume hood schedule identifying the number of cabinets required.

2. Specification section 23 38 16.13, 2.3, .1, .2- Delete the following: "Exposed screws and screw head "caps" are not acceptable."
3. Specification section 23 38 16.13, 2.3, .1, .6- Revise to read:".6 Lower Air Foil: Aluminum, Epoxy powder coated or stainless steel, powder coated.
4. Specification section 23 38 16.13, 2.3, .1, .9- Revise to read:".6 Sash Guides: Aluminum, Epoxy powder coated or stainless steel, powder coated.
5. Specification section 23 38 16.13, 2.3, .1, .10- Add the following to .10:"Hardened carbon steel roller chain is also acceptable."
6. Specification section 23 38 16.13, 2.3, .1, .11- Add the following to .11: "Stainless steel construction is also acceptable."
7. Specification section 23 38 16.13, 2.3, .1, .12- Add the following to .12:"Stainless steel construction is also acceptable."
8. Specification section 23 38 16.13, 2.3, .1, .13- Add the following to .13:"Stainless steel construction is also acceptable."
9. Specification section 23 38 16.13, 2.3, .1, .14- Add the following to .14:"Stainless steel construction is also acceptable."
10. Specification section 23 38 16.13, 2.3, .2, .1- to read as follows:" .1 A rigid, self-supporting assembly of a single wall construction made of solid phenolic resin or stainless steel.
11. Specification section 23 38 16.13, 2.3, .2, .3- to read as follows:" .3 Fume Hood Interior: .1 Side walls shall be constructed of solid phenolic resin or stainless steel.
12. Specification section 23 38 16.13, 2.3, .2- Delete .4.

13. Specification section 23 38 16.13, 2.3, .2- Delete .6.
14. Specification section 23 38 16.13, 2.3, .2, .7, .1-In addition to the material described in the specification, the bottom air foil may also be made of T316 stainless steel.
15. Specification section 23 38 16.13, 2.3, .12, .4- Delete the first sentence in the paragraph.
16. Specification section 23 38 16.13, 2.3, .12, .6- Rails to be made by extruded polypropylene or PVC.
17. Specification section 23 38 16.13, 2.3, .14, .4- replace "motion detector monitor and travelling photo-electric barrier for obstacle detection" with "obstacle detection device".
18. Specification section 23 38 16.13, 2.3, .2, .20, .1- Add the following: "Electrical outlets within the hood shall be activated by a switch on the outside of the hood. Refer to attached sketch MD-1 for number of required outlets in each hood.
19. Specification section 23 38 16.13, 2.3, .21- Revise title to "Safety Monitor and Alarm". Remove all references to factory designed and installed. A third party installed device is acceptable.
20. Specification section 25 90 01- add the following to 1.2, .1:"All room level laboratory data points shall be converted to BACnet IP for integration with the building automation system."
21. Specification section 25 90 01, 2.4, .2- Revise differential pressure range from 150 to 750 Pa to 75 to 750 Pa (0.3" to 3.0"W.C.).
22. Specification section 25 90 01, 3.4, .1- Delete "certified NIST traceable air stations and replace with "NVLAP Accredited air stations". Further, revise static pressure range from 150 Pa (0.6" W.C.) and 750 Pa (3" W.C.)to 75 Pa (0.3" W.C.) and 750 Pa (3" W.C.).

Drawings:

1. Drawing M3.3- Revise HVAC Drawing Note 14 to read as follows:
"New fume Hood".
2. Drawing M3.4- Revise HVAC Drawing Note 12 to read as follows:
"New Fume Hood".
3. Drawing M3.5- Delete Fume Hood Schedule and replace with the Fume Hood Schedule in attached sketch MD-1.
4. Drawing M3.6- Delete all airflow stations (item 5 in HVAC Drawing Notes)

END OF ADDENDUM NO.04