

Date: April 11, 2022

This Addendum varies the Bidding and Contract Documents dated March 15, 2022 and titled:

Project Name: UHNBC Cardiac – Phase 1 Biomed 3rd Floor

Project Number: N662030002

This Addendum shall form part of the Contract Documents and is to be read, interpreted and coordinated with all other parts. The cost of all work contained herein shall be included in the Contract sum. The following revisions supersede the information contained in the original specifications and drawings issued for the above-named project. Acknowledge receipt of this Addendum by inserting its number in the STIPULATED PRICE BID FORM.

1.0 GENERAL

2.0 SPECIFICATIONS

2.1 Section 25 09 95 HVAC SMOKE CONTROL SYSTEMS

REVISE 3.2.1.9 to “Supply, return and exhaust fan enable, outdoor air/ return air/ relief air damper position (where applicable) and shut down will be by the Fire Alarm system. BMS shall provide feedback to the Fire Alarm system to confirm operation. Fan speed control will be by the BMS system”.

REVISE 3.2.3.3 to “Three (3) inputs from fire alarm panel to BMS system are required. One for stage 1 fire alarm, one for stage 2 fire alarm, one for trouble.

REVISE 3.2.3.8 to “These Three (3) input signals (stage 1 fire alarm, stage 2 fire alarm and trouble) to indicate that the fire alarm situation is over, and the HVAC systems can be automatically reset. On receipt of a reset signal from the Fire Alarm system, all HVAC systems shall be reset to their "normal" mode of operation.

DELETE 3.3.4. “BMS shall receive fire alarm”.

2.2 Section 25 90 10 CONTROL SEQUENCEs OF OPERATIONS

DELETE 2.12.1 “The BMS shall monitor Division 26 dry contact alarm outputs provided by Division 26 for recording and annunciation at the OWS(s). Systems to be monitored include Fire Alarm, Transformers etc. Final points list to be clarified with Div. 26”.

3.0 DRAWINGS

4.0 QUESTIONS AND ANSWERS

Question: It's unclear exactly how many BMS points are required for the **Medical Gas**. Please submit for clarification:

- i. Section 22 63 02, items 2.4.1.3 and 3.1.2 digital alarms: Please confirm 6 inputs will be sufficient for Medical Vacuum, Medical Air and Oxygen alarms.

Answer: **Agreed. 2 wires are required for each medical gas so 6 inputs will be sufficient.**



- ii. Please identify the locations of medical gas field devices (as per section 22 63 02, items 1.10.6 and 3.1.5) on drawing M203.

Answer: Location of combined zone valve box and alarm panel has been shown between GL. 12/I and 12/I1 on drawing M203.

Question: It's unclear exactly how many BMS points are required for the **Fire Alarm Interlocks**.

- i. Please confirm the allotted BMS inputs / outputs will be sufficient to meet the intent of the specification
- a. Section 25 09 95, item 3.2.1.9: provide feedback to the fire alarm system on AH804 outdoor dampers, supply fan speed and an F2 fan speed operation - 3 BMS outputs

Answer: There is no input from BMS to fire alarm is required.

- b. Section 25 09 95, item 3.2.3.3: 6 BMS digital inputs, 1 BMS digital output (6 BMS inputs one for each smoke vent zone (four total) and one for each first and second stage fire alarm (2)

Answer: Three (3) inputs from fire alarm panel to BMS system are required. One for first stage fire alarm, one for second stage fire alarm and one for trouble.

- ii. Section 25 09 95, item 3.2.3.8: System Reset signal -1 input
- iii. Section 25 09 95, item 3.3.4: Fire alarm signal – 1 input
- iv. Please identify the locations of the dry contacts supplied by Div 26/27 (as per section 25 09 95, item 3.6.3) on drawing M400

Answer ii: These three (3) inputs signals (stage 1 fire alarm, stage 2 fire alarm and trouble) to indicate that the fire alarm situation is over, and the HVAC systems can be automatically reset. On receipt of a reset signal from the Fire Alarm system, all HVAC systems shall be reset to their "normal" mode of operation.

Answer iii: Delete 3.3.4.

Answer iv: Delete 3.6.3 "Division 26/27 will provide fire alarm signals for each of the Smoke Vent Zones, indicating the location of the zone in vent".

- v. Please identify the location of the Div 26/27 alarm contact outputs (as per section 25 90 10, item 2.12.1) on drawing M101

Answer: Delete 2.12.1 from section 25 90 10.

End of Addendum No. 4