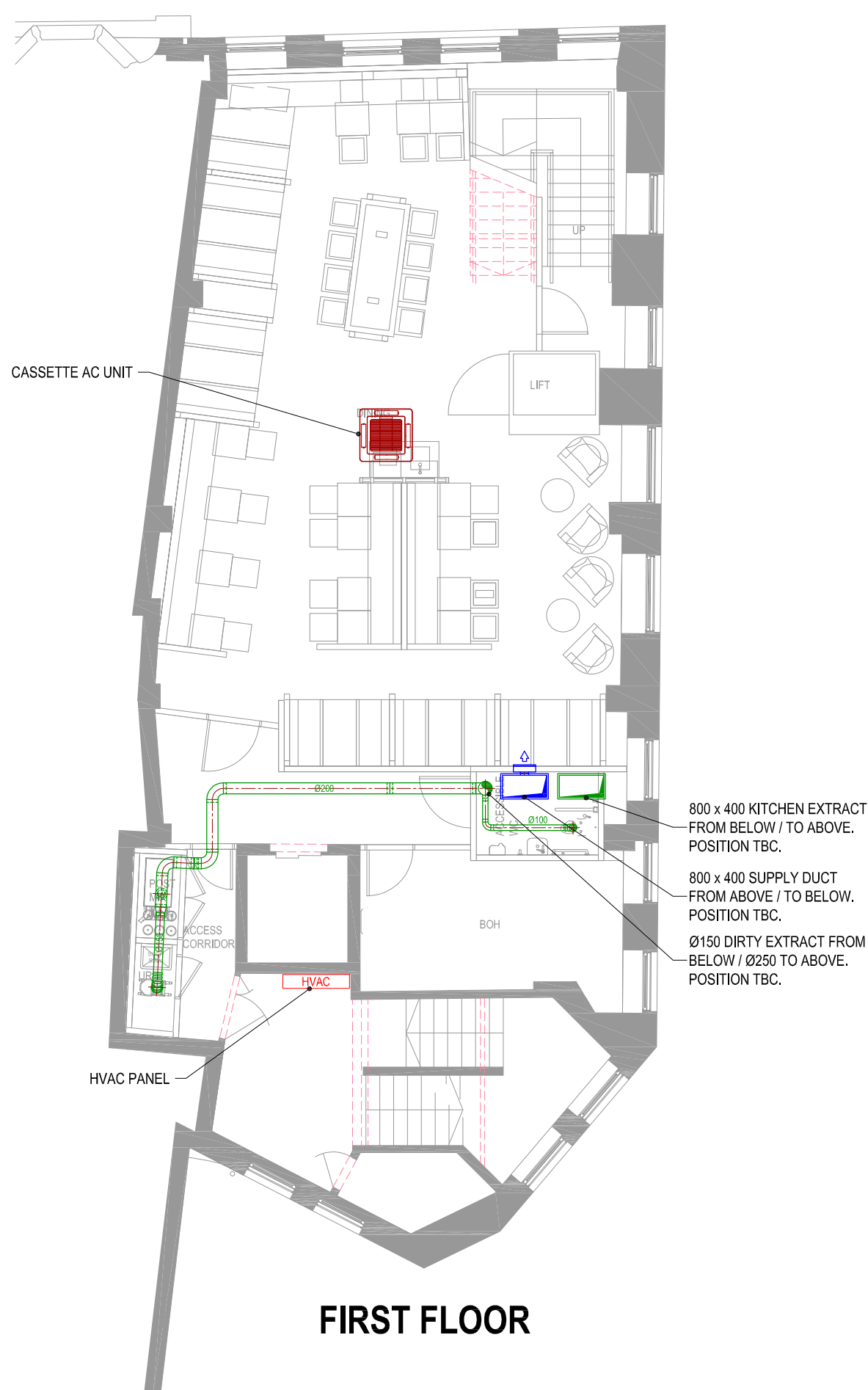
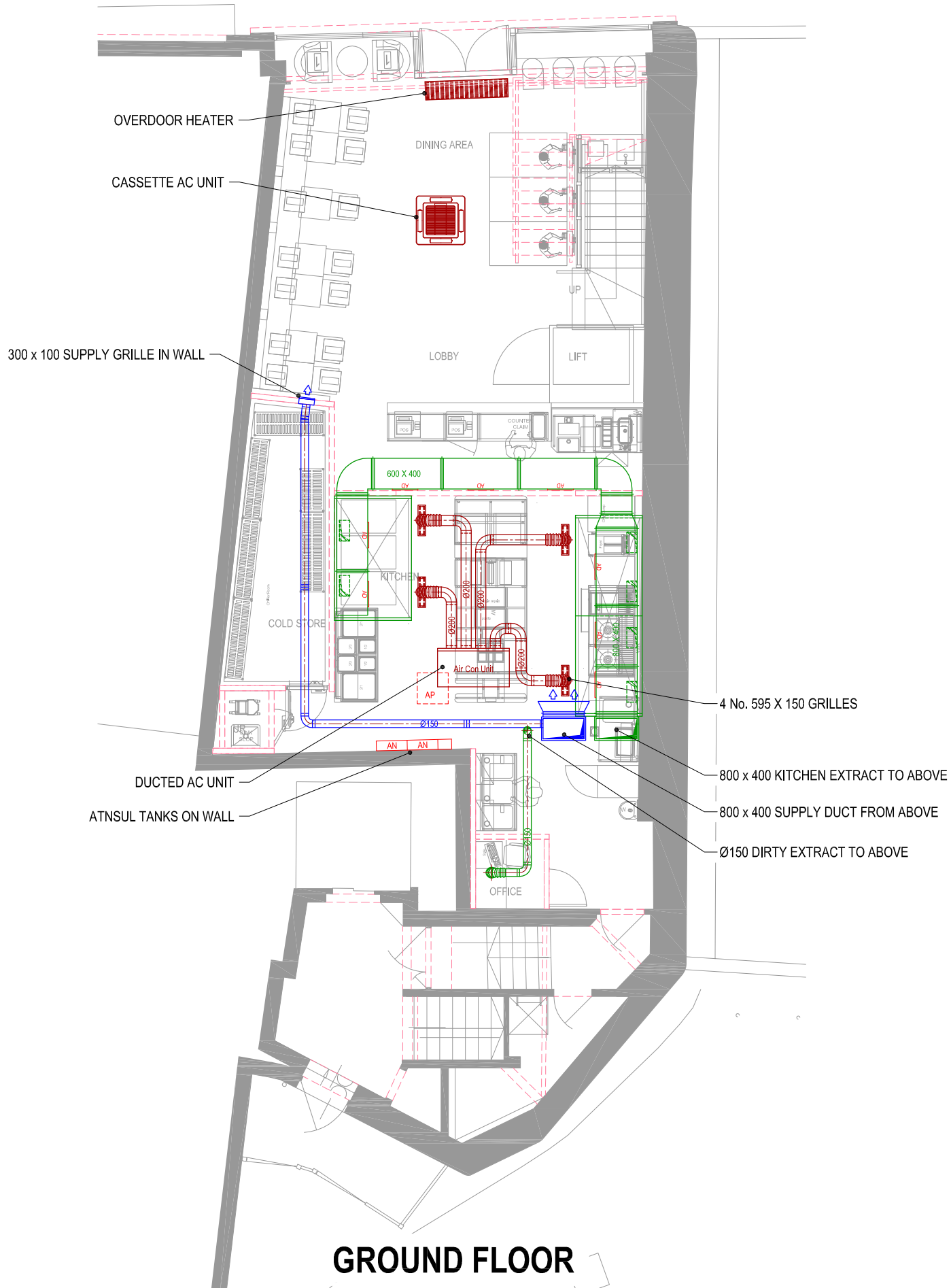


- General notes:
- Positions of all equipment, ductwork and fittings are indicative only.
 - Contractors shall confirm the sequence of installation works to ensure safe access is maintained.
 - Attention is drawn to Health & Safety Issues. Liaise with the main contractor to ensure that installation works are programmed to respect H&S rules and relevant coordination.
 - All dimensions / duct sizes are in millimetres unless otherwise stated.
 - This drawing was produced using CAD and should not be amended by hand.
 - All dimensions shown are for reference and should be checked on site prior to commencement of work.

- Specific notes:
- This drawing should be read in conjunction with all architectural, structural and drawings from other services (incl. mechanical, catering, electrical, sprinklers) along with correct documentation and specification for the works.
 - Ensure all method statements, sign offs and approvals are in place before proceeding with any work.
 - All works to be carried out in accordance with the current British Standards, B.S. Codes of practice and building regulations.
 - The HVAC services works shall be carried out in full accordance with the client specification and code, together with any relevant technical guide and specification.
 - Ductwork shall be installed in accordance with all current industry standard guidelines / regulations.
 - Galvanised ductwork to be manufactured to BS144.
 - Ductwork sized in accordance with all current industry standard guidelines / regulations. Duct dimensions shown on drawing are clear internal dimensions (not including flanges and fittings).
 - Access doors required on kitchen extract duct every 1500mm for cleaning and before / after every change of direction & should be accessible at all locations via ceiling access panels or pithead ceilings etc. Access panels to be provided to main contractor in any access ceilings where that requirements indicated by HVAC installation contractor.
 - Duct connections with fans and other equipment to be a manufacturer's canvas connection to prevent duct thermal noise and transmission of vibrations.
 - Volume control dampers shall be provided on all branch legs and diffuser / grille terminals to facilitate commissioning.
 - Supply and secondary fan coil unit ductwork to be fully insulated.
 - Final air intake and exhaust locations are shown indicatively on these drawings. The exact positions shall be agreed with the client, architect and the main contractor and shall be shown accordingly on the working / coordinated drawings.
 - Position of all grilles / air valves shown are in optimum positions for all flow. The grille to be positioned as close as practicable to location shown and coordinated with other services and fabric constraints.
 - Fire dampers are to be shown on ductwork penetrating kitchen extract ducts penetrating fire compartment divisions and shall incorporate certified fire dampers to match the fan rating, together with access panels. Reference to be made to architect fire strategy drawing to establish locations. Fire dampers are shown indicatively on these drawings.
 - All transfer grilles and ductwork where fire rated, shall match the fire rating of the wall in which it is installed.
 - Attenuation and anti-vibration measures shall be incorporated on all plant and ductwork supports in full accordance with acoustic consultant's specification.
 - Access required to all plant equipment for maintenance and cleaning.
 - Refer to catering specialist layout to determine confirmed canopy sizes and locations.
 - Condensate drain from AC condensers to be run to the nearest waste connection or to rooftop drain. Condensate drains from the FCU's to be run to the nearest drain (storm), subject to manufacturer and their requirements. Both shall be the equivalent plastic or copper pipes.
 - Install all mechanical equipment in accordance with manufacturers guidelines.
 - Catering condensers are not CIVL equipment. However, they are indicatively shown on CIVL drawings to allow for pre-laid space and access within the HVAC plant area.
 - Locations of all required floor, wall and roof openings shall be co-ordinated with all other trades involved.
 - No other loads (other services or man loads) shall be hung from ductwork supports.

B	02-11-21	PR	Updated GA, HVAC updated to suit.
A	25-10-21	PR	Updated risers.
No.	Date	Rev.	Revision Description

Project:

**JOLLIBEE
MANCHESTER**

Drawing Title:
**VENTILATION LAYOUT
GROUND FLOOR
& FIRST FLOOR**

Drawing No.:	Rev:
001-877-01	B

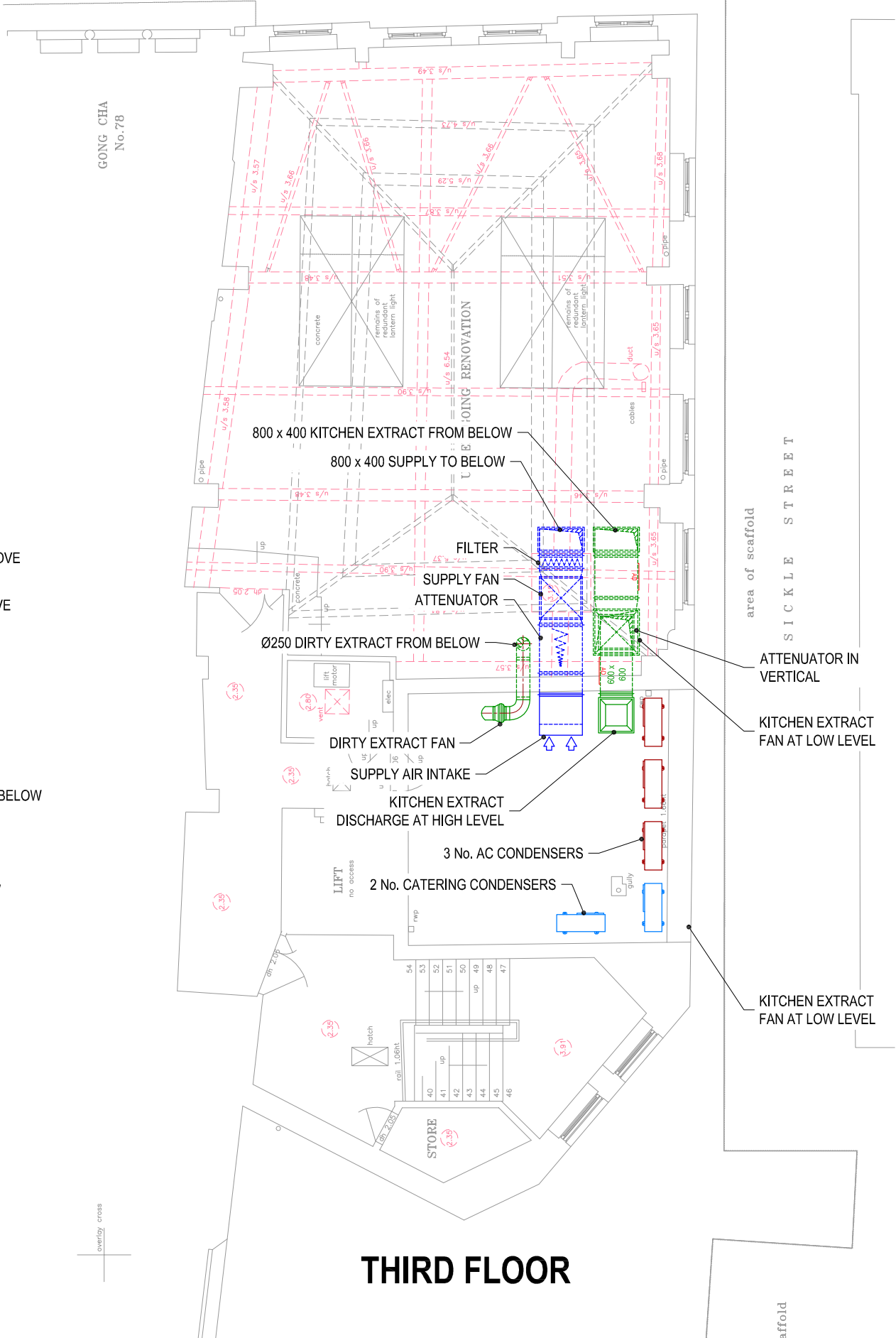
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Drawn By: PR Date: 15/10/21



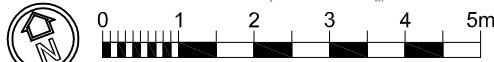


SECOND FLOOR

- 800 x 400 KITCHEN EXTRACT TO ABOVE
- 800 x 400 SUPPLY DUCT FROM ABOVE
- Ø250 DIRTY EXTRACT TO ABOVE
- 800 x 400 KITCHEN EXTRACT FROM BELOW
- 800 x 400 SUPPLY DUCT TO BELOW
- Ø200 DIRTY EXTRACT FROM BELOW



THIRD FLOOR



General notes:

- Positions of all equipment, ductwork and fittings are indicative only.
- Contractors shall confirm the sequence of installation works to ensure safe access is maintained.
- Attention is drawn to health & safety issues. Liaise with the main contractor to ensure that installation works are programmed to respect H&S rules and relevant coordination.
- All dimensions / duct sizes are in millimetres unless otherwise stated.
- This drawing was produced using CAD and should not be amended by hand.
- All dimensions shown are for reference and should be checked on site prior to commencement of work.

Specific notes:

- This drawing should be read in conjunction with all architectural, structural and drawings from other services (incl. mechanical, catering, electrical, sprinklers) along with correct documentation and specification for the works.
- Ensure all method statements, sign offs and approvals are in place before proceeding with any work.
- All works to be carried out in accordance with the current British Standards, B.S. Codes of practice and building regulations.
- The HVAC services works shall be carried out in full accordance with the client specification and code, together with any relevant technical guide and specification.
- Ductwork shall be installed in accordance with all current industry standard guidelines / regulations.
- Galvanneal ductwork to be manufactured to DIN144.
- Ductwork sized in accordance with all current industry standard guidelines / regulations. Duct dimensions shown on drawing are clear internal dimensions (not including flanges and fittings).
- Access doors required on kitchen extract duct every 1500mm for cleaning and before / after every change of direction & should be accessible at all locations via ceiling access panels or grilles / catwalks, etc. Access panels to be provided by main contractor in any accessible areas where that requirements indicated by HVAC installation contractor.
- Duct connections with fans and other equipment to be a manufacturer's correct connection to prevent duct leakage and transmission of vibrations.
- Volume control dampers shall be installed on all branch legs and diffuser / grille terminals to facilitate commissioning.
- Supply and secondary fan coil unit ductwork to be fully insulated.
- Final air intake and extract locations are shown individually on these drawings. The exact positions shall be agreed with the client, architect and the main contractor and shall be shown accordingly on the working / coordinated drawings.
- Position of all grilles / air valves shown are to optimum positions for all flow. The grille to be positioned as close as possible to location shown and coordinated with other services and fabric constraints.
- Fire dampers are to be shown on ductwork penetrating kitchen extract ducts penetrating fire compartment divisions and shall incorporate certified fire dampers to match the fan rating, together with access panel. Reference to be made to architect fire strategy drawing to establish locations. Fire dampers are shown individually on these drawings.
- All transfer grilles and ductwork where fire rated, shall match the fire rating of the wall in which it is installed.
- Attenuation and anti-vibration measures shall be incorporated on all plant and ductwork supports in full accordance with acoustic consultant's specification.
- Access required to all plant equipment for maintenance and cleaning.
- Refer to catering specialist layout to determine confirmed canopy size and location.
- Condensate drain from AC condensers to be run to the nearest waste connection or to rooftop drain. Condensate drain from the FCU's to be run to the nearest drain (storm), subject to manufacturer and their requirements. Both shall be the equivalent diameter or copper pipe.
- Install all mechanical equipment in accordance with manufacturers guidelines.
- Catering condensers are not CVL equipment. However, they are indicated shown on CVL drawings to allow for provision of space and access within the HVAC plant area.
- Locations of all required floor, wall and roof openings shall be co-ordinated with all other trades involved.
- No other loads (other services or man loadings) shall be hung from ductwork supports.

D	16-11-21	PR	Revised plant layout.
C	02-11-21	PR	Updated GA, HVAC updated to suit.
B	28-10-21	PR	Updated plant GA.
A	25-10-21	PR	Updated risers.

No.	Date	Rev.	Revision Description
		By	

Project:

JOLLIBEE

MANCHESTER

Drawing Title:

VENTILATION LAYOUT

SECOND FLOOR

& THIRD FLOOR

Drawing No.:	Rev:
001-877-02	D

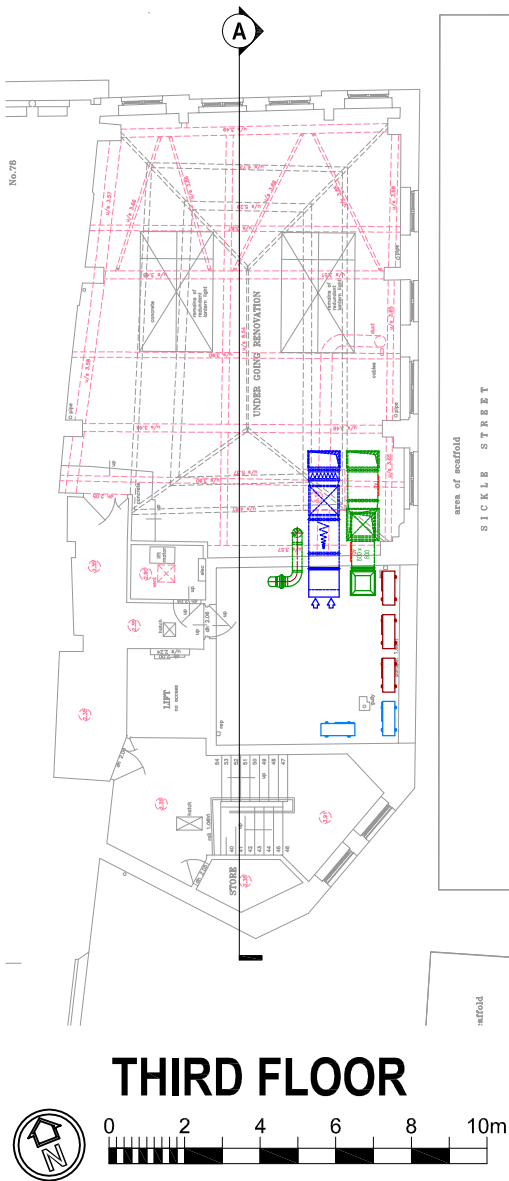
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Drawn By: PR Date: 15/10/21

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SECTION A-A

- General notes:
- Positions of all equipment, ductwork and fittings are indicative only.
 - Contractors shall confirm the sequence of installation works to ensure safe access is maintained.
 - Attention is drawn to health & safety issues. Liaise with the main contractor to ensure that installation works are programmed to integrate H&S risks and relevant coordination.
 - All dimensions / duct sizes are in millimetres unless otherwise stated.
 - This drawing was produced using CAD and should not be amended by hand.
 - All dimensions shown are for reference and should be checked on site prior to commencement of work.

- Specific notes:
- This drawing should be read in conjunction with all architectural, structural and drawings from other services (incl. mechanical, catering, electrical, sprinklers) along with contract documentation and specification for the works.
 - Ensure all method statements, sign offs and approvals are in place before proceeding with any work.
 - All works to be carried out in accordance with the current British Standards, B.S. Codes of practice and building regulations.
 - The HVAC services works shall be carried out in full accordance with the client specification and code, together with any further technical guide and specifications.
 - Ductwork shall be installed in accordance with all current industry standard guidelines / regulations.
 - Galvanneal ductwork to be manufactured to DIN144.
 - Ductwork sized in accordance with all current industry standard guidelines / regulations. Duct dimensions shown on drawings are clear internal dimensions (not including dampers and fittings).
 - Access doors required on kitchen extract duct every 1500mm for cleaning and before / after every change of direction & should be accessible at all locations via ceiling access panels or pithead openings etc. Access panels to be provided to main contractor in any solid ceilings where that requirements indicated by HVAC installation contractor.
 - Duct connections with fans and other equipment to be a manufacturer's canvas connection to prevent duct thermal noise and transmission of vibrations.
 - Volume control dampers shall be provided on all branch legs and diffuser / grille terminals to facilitate commissioning.
 - Supply and secondary fan coil unit ductwork to be fully insulated.
 - Final air intake and exhaust locations are shown indicatively on these drawings. The exact positions shall be agreed with the client, architect and the main contractor and shall be shown accordingly on the working / coordinated drawings.
 - Position of all grilles / air valves shown are in optimum positions for all flow. The grilles to be positioned as close as practicable to location shown and coordinated with other services and fabric constraints.
 - Fire dampers are to be shown on ductwork penetrating kitchen extract ducts penetrating fire compartment divisions and shall incorporate certified fire dampers to match the fan rating, together with access panels. Reference to be made to architect fire strategy drawing to establish locations. Fire dampers are shown indicatively on these drawings.
 - All transfer grilles and ductwork where fire rated, shall match the fire rating of the wall in which it is installed.
 - Attenuation and anti-vibration measures shall be incorporated on all plant and ductwork supports in full accordance with acoustic consultant specification.
 - Access required to all plant equipment for maintenance and cleaning.
 - Refer to catering specialist layout to determine confirmed canopy sizes and locations.
 - Condensate drain from AC condensers to be run to the nearest waste connection or to rooftop drain. Condensate drains from the FCU's to be run to the nearest drain (25mm), subject to manufacturer and their requirements. Both shall be the equivalent plastic or copper pipes.
 - Install all mechanical equipment in accordance with manufacturers guidelines.
 - Catering condensers are not CVL equipment. However, they are indicatively shown on CVL drawings to allow for provision of space and access within the HVAC plant area.
 - Locations of all required floor, wall and roof openings shall be co-ordinated with all other trades involved.
 - No other loads (other services or man loading) shall be hung from ductwork supports.

Project:

JOLLIBEE
MANCHESTER

Drawing Title:

VENTILATION LAYOUT
PLANT SECTION

Drawing No.:	Rev:
001-877-10	A
Scale: 1:50 & 1:100 @ A1 1:100 & 1:200 @ A3	
Drawn By: PR	Date: 02/11/21