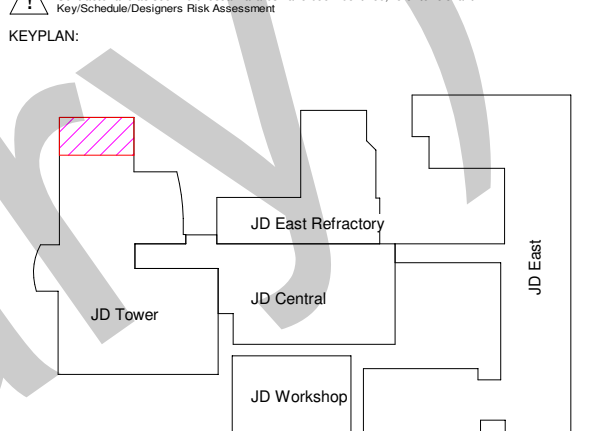




- Vertical Cavity Barriers in plan. Rating as adjacent fire rating.
- Vertical Cavity Barriers in Elevation. Rating as adjacent fire rating.
- Horizontal Cavity Barriers in Elevation. Rating as adjacent fire rating.
- Cavity Barriers in ceiling void (30 min Fire Resistance).
- Fire Escape Stair.
- Fire Fighting Lift / Evacuation Lift.
- Stair Lobby.
- Final Exit.
- Line of 30 min Fire Resistance.
- Line of 60 min Fire Resistance.
- Line of 120 min Fire Resistance.
- 30 minutes fire rated ceiling.
- 60 minutes fire rated ceiling.
- All Fire doors and values highlighted red.
- FD30S Smoke Seal if required. Minutes of Fire Resistance. FD denotes Fire Door.
- 120min FR Door.
- 1Hr FR Door.
- 30min FR Door.

These Fire Strategy drawings are to be read in conjunction with the Fire Strategy Report and the Access Strategy drawings. Structural elements including walls supporting plant to have 90 minutes fire resistance. For additional requirements refer to the Fire Strategy Report.

For location and extent of ceiling void cavity barriers and any other internal cavity barriers refer to the DR-A-22 and DR-A-35 series drawings.

For location and extent of external wall cavity barriers around openings, compartment wall junctions, other cavity barrier junctions, protected escape routes, subdivisions, etc. refer to the DR-A-21 series drawings.

Roof covering materials to be rated minimum of BA, BB, BC. For escape stairs widths to existing and new staircases refer to the Fire Strategy Report.

These drawings show works to the proposed buildings and to the refurbished elements only. Existing building elements with 'no works' are retained as existing.

These drawings do not show the position of loose firefighting equipment. Positions for this equipment to be agreed at Stage 4. Cavity barriers to be installed in accordance with section 33 of BS 9999.

All concealed voids in excess of 20m and around all window openings to be provided with cavity barriers and where external cavity crosses over compartment line of all fire resisting walls. Provide cavity barriers at all compartment walls and in cavities at every 20m (vertically & horizontally). All in accordance with Building Regulations and Fire Strategy.

All Ductwork & Services that pass through Protected Escape Routes to be 120min fire rated construction & be fully fire stopped to achieve 120min.

Ductwork & services that do not pass through Protected Escape Routes, but pass through fire separating elements are to be of a fire rated construction & fire stopped to achieve the same rating as the element it passes through.

Please note: These drawings have been updated to suit the DFC Stage 5 Fire Strategy Report. Following meeting on 14/10/21 it was agreed 5plus Fire Strategy Drawings would only show new build elements, and a full pack of Strategy drawings (including existing elements) will be produced by DFC.

Intermediate and permanent positions of statutory signage to be agreed on site with building control.

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings

REVIEWED

By Darren Smethurst at 3:01 pm, Feb 03, 2023

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue

P1 First Issue



Manchester: 0161 228 0211
Fourth Floor, The Hive, 47 Lever Street,
Manchester M1 1FN

London: 0207 253 7644
Third Floor, 25 Chart Street,
London N1 6FA

www.5plusarchitects.com

PROJECT: Science and Engineering Building

TITLE: Fire Strategy Plan Energy Centre

SCALE: As indicated@A1

ORIGIN DATE: 06/09/22

DRAWN: AW

CHECKED: AP

STATUS: Preliminary

PROJECT: 05894 - 1338B-5PA-EC-00-DR-A-290260

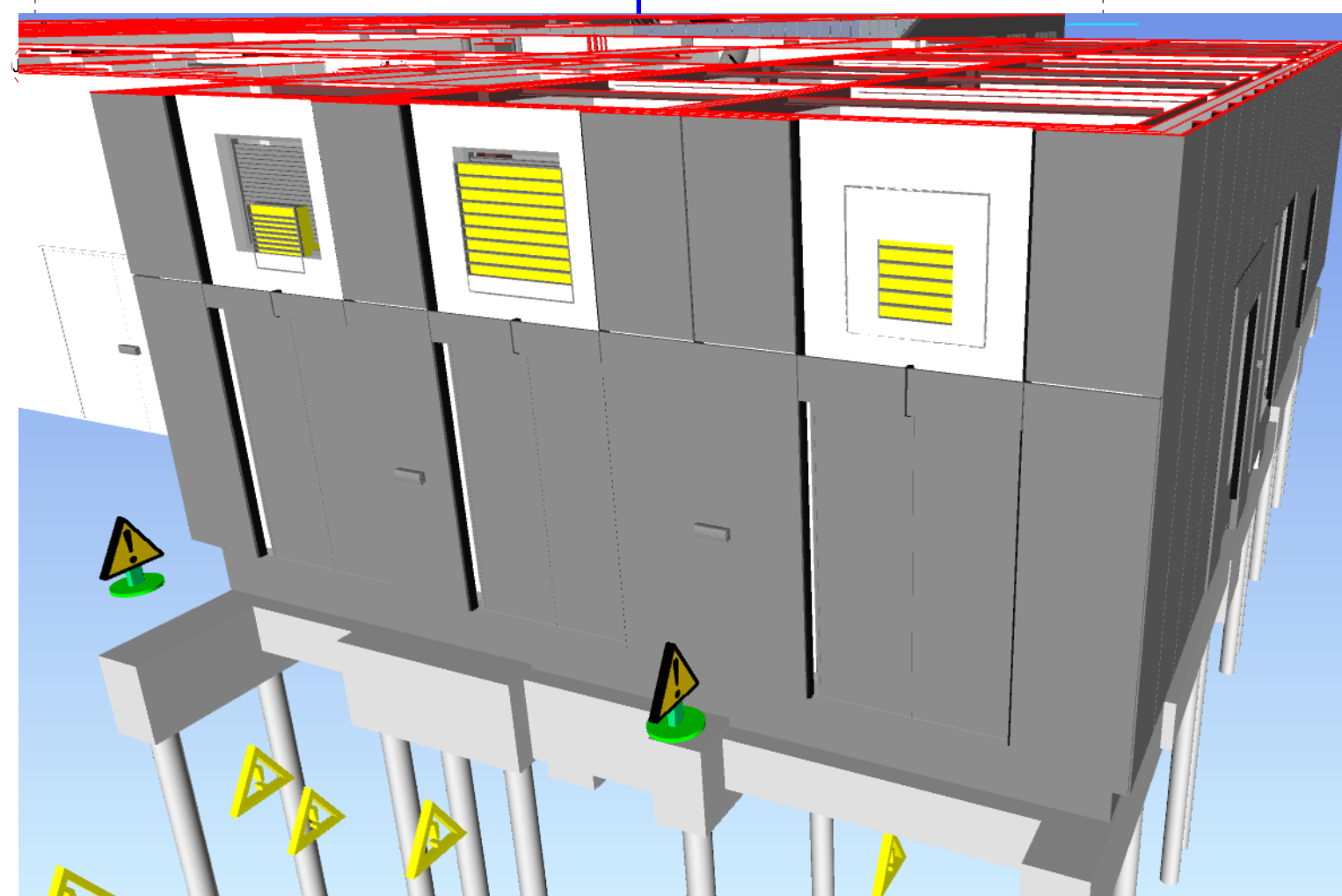
DRAWING NO: 05894 - 1338B-5PA-EC-00-DR-A-290260

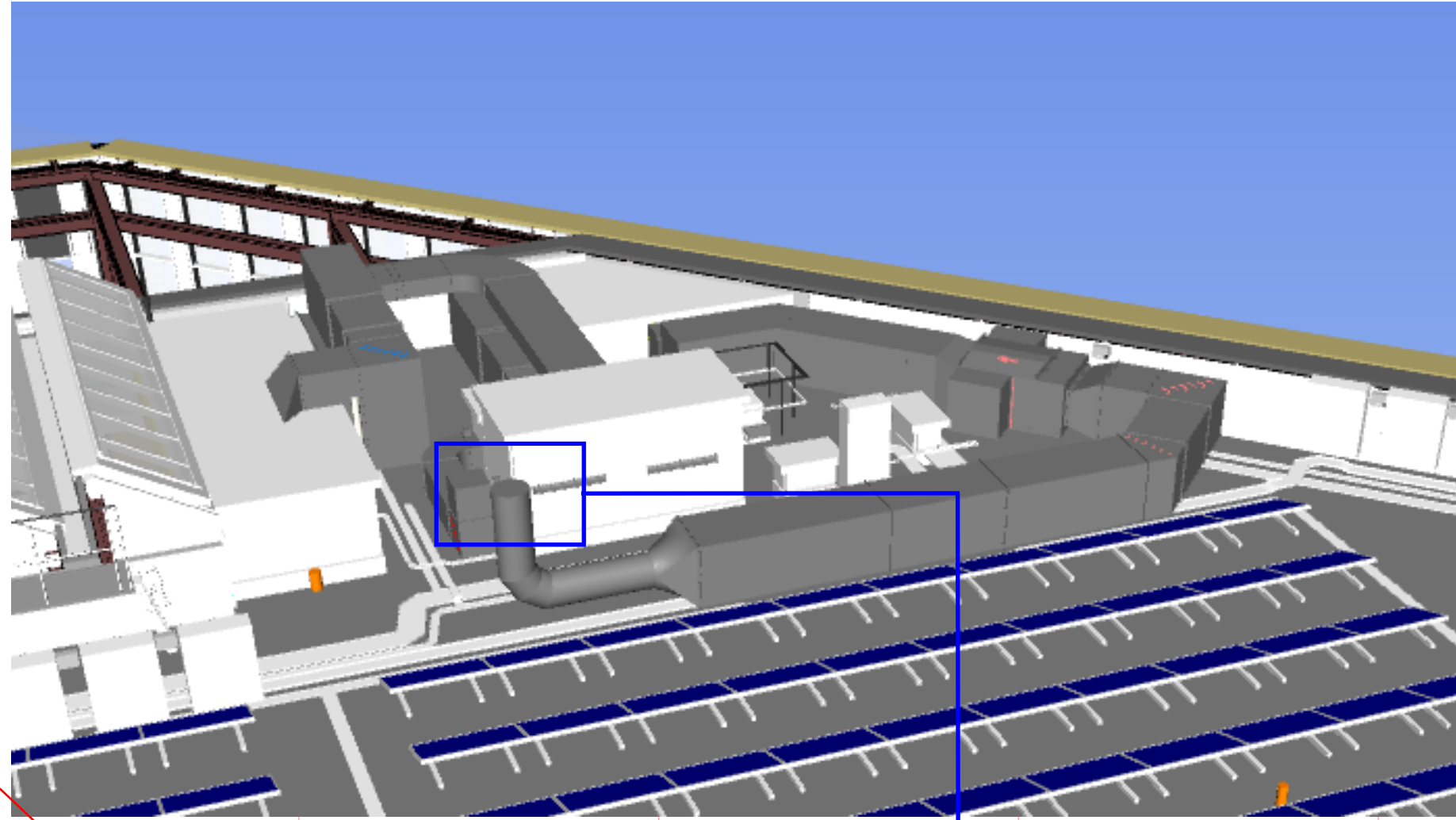
REV: P1

Generator Flue
Extracting diesel fumes from the standby generator in the event of a power out emergency.
There will also be weekly tests for short periods.

Extract System for Transformer Room
Extracting heat / high temperature general air generated from the transformer.

For Fire Protection requirements of Existing Elements Please Refer to DFC's Strategy Drawings





Smoke Ventilation System

Smoke clearance system from lift lobbies within the building.

Emergency Only / Smoke from a burning event within the building.

Horizontal fins should be protected by steel plate (10mm) at the corner of the elevations



fire rated construction & fire stopped to achieve the same rating as the element it passes through.



PROJECT: Science and Engineering Building

TITLE: East Elevation - Fire Strategy New Build

SCALE: ORIGIN DATE: DRAWN: CHECKED:

As identified@A1 24/01/23 JC AP

STATUS: Preliminary

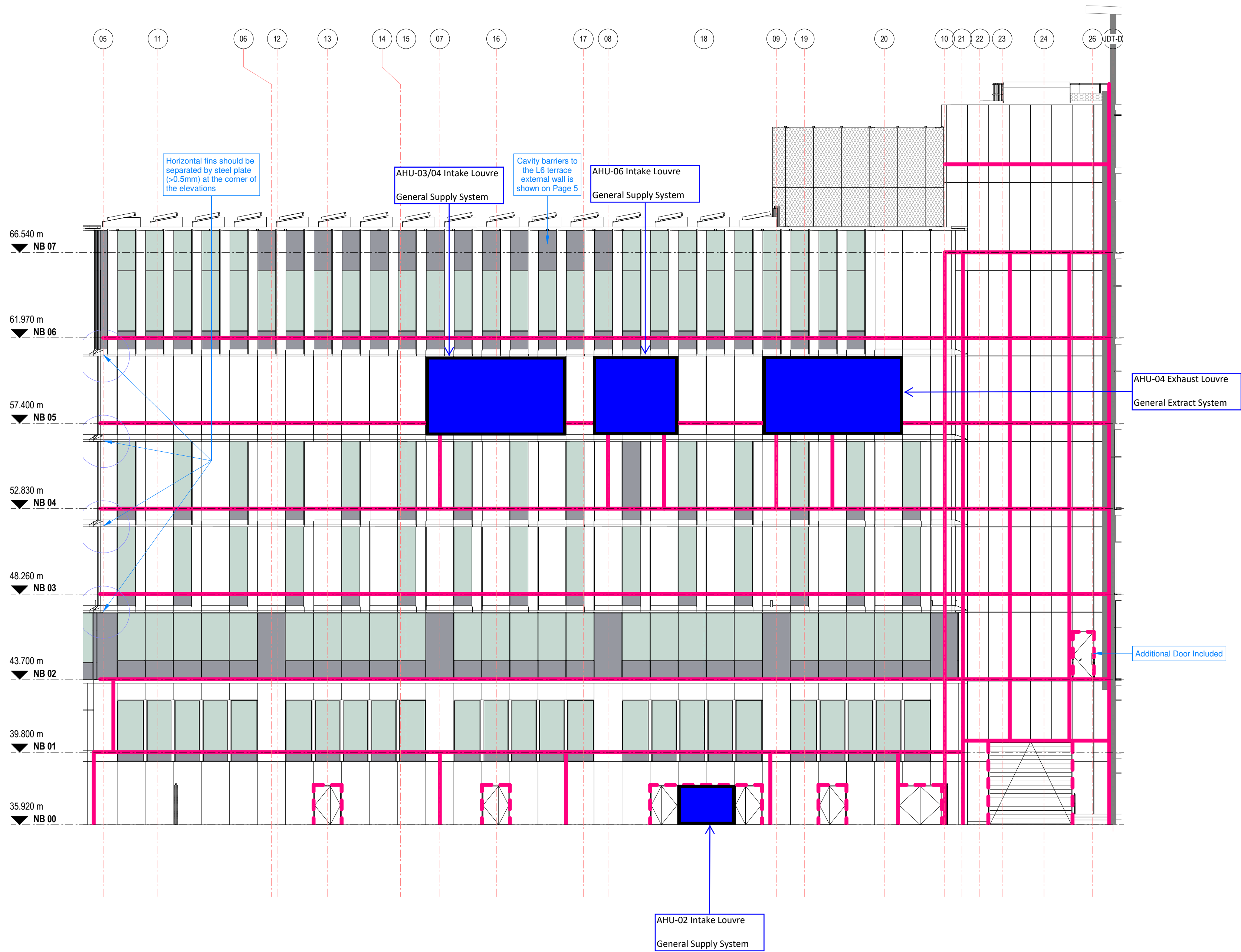
PROJECT: DRAWING NO: REV:

05894 - 1338B-SPA-NB-ZZ-DR-A-290303 P01

- Cavity Barrier/Firestopping**
Firestopping (Internal) to match the fire resistance of the associated wall/floor
Cavity Barriers (External) to achieve a fire resistance of 30 minutes integrity and insulation
- Cavity Barrier Around Openings**
Acceptable materials include 0.5mm steel, 12mm gypsum based board, or mineral wool slab under compression

These Fire Strategy drawings are to be read in conjunction with the Fire Strategy Report and the Access Strategy drawings.
Structural elements including roofs supporting plant to have 90 minutes fire resistance on New Build and 120 minutes on Link Bridge. For additional requirements refer to the Fire Strategy Report.

For location and extent of external wall cavity barriers around openings, compartment wall junctions, other cavity barrier junctions, protected escape routes, subdivisions, etc. refer to the 2903 fire elevations and to the Facade Designer drawings.
Roof covering materials to be rated minimum of BA, BB, BC.
For escape stairs widths to existing and new staircases refer to the Fire Strategy Report.
Existing building elements with 'no works' are retained as existing.
Fire resistance of existing elements has not been verified. Further investigations to be undertaken.
These drawings do not show the position of loose firefighting equipment. Positions for this equipment to be provided by Client and agreed with BC.
Cavity barriers to be installed in accordance with section 33 of BS 9999.
All concealed voids in excess of 20m and around all window openings to be provided with cavity barriers and where external cavity crosses over compartment line of all fire resisting walls.
Provide cavity barriers at all compartment walls and in cavities at every 20m (Vertically & horizontally). All in accordance with Building Regulations and Fire Strategy.
All Ductwork & Services that pass through Protected Escape Routes to be 120min fire rated construction & be fully fire stopped to achieve 120min.
Ductwork & services that do not pass through Protected Escape Routes, but pass through fire separating elements are to be of a fire rated construction & fire stopped to achieve the same rating as the element it passes through.



1 South Elevation Fire Strategy
1:150

REVIEWED
By Darren Smethurst at 2:34 pm, Feb 03, 2023

P01 - First Issue



Manchester: 0161 228 0211
Fourth Floor, The Hive, 47 Lever Street,
Manchester M1 1FN

London: 0207 253 7644
Third Floor, 25 Chart Street,
London N1 6FA
www.5plusarchitects.com

PROJECT:
Science and Engineering
Building

TITLE:
South Elevation - Fire Strategy
New Build

SCALE: As indicated@A1
ORIGIN DATE: 24/01/23
DRAWN: JC
CHECKED: AP

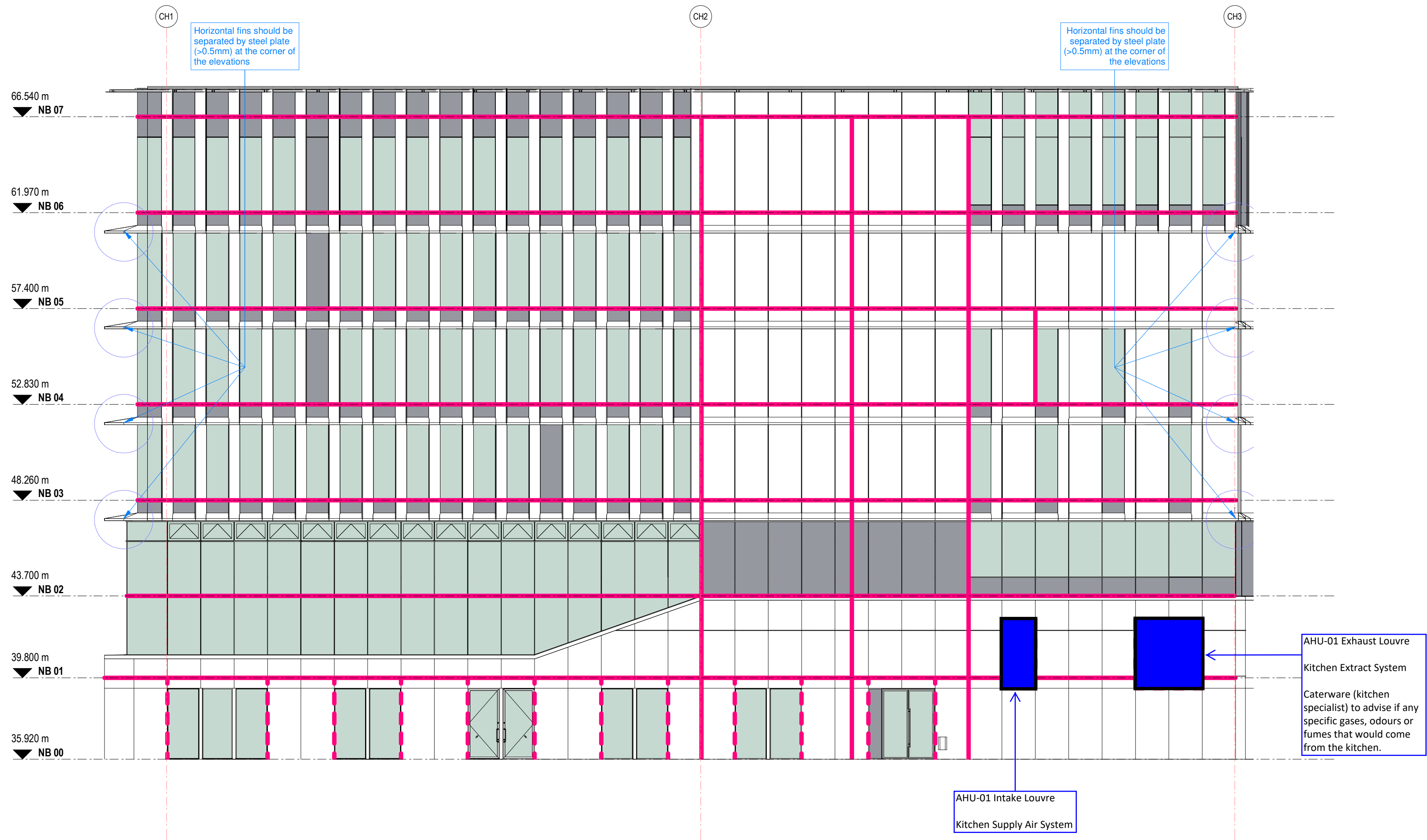
STATUS:
Preliminary

PROJECT: 05894 - 1338B-5PA-NB-ZZ-DR-A-290302
DRAWING NO:
REV: P01

- Cavity Barrier/Firestopping**
Firestopping (Internal) to match the fire resistance of the associated wall/floor
Cavity Barriers (External) to achieve a fire resistance of 30 minutes integrity and insulation
- - - Cavity Barrier Around Openings**
Acceptable materials include 0.5mm steel, 12mm gypsum based board, or mineral wool slab under compression

These Fire Strategy drawings are to be read in conjunction with the Fire Strategy Report and the Access Strategy drawings.
Structural elements including roofs supporting plant to have 90 minutes fire resistance on New Build and 120 minutes on Link Bridge. For additional requirements refer to the Fire Strategy Report.

For location and extent of external wall cavity barriers around openings, compartment wall junctions, other cavity barrier junctions, protected escape routes, subdivisions, etc. refer to the 2903 fire elevations and to the Facade Designer drawings.
Roof covering materials to be rated minimum of BA, BB, BC.
For escape stairs widths to existing and new staircases refer to the Fire Strategy Report.
Existing building elements with 'no works' are retained as existing.
Fire resistance of existing elements has not been verified. Further investigations to be undertaken.
These drawings do not show the position of loose firefighting equipment. Positions for this equipment to be provided by Client and agreed with BC.
Cavity barriers to be installed in accordance with section 33 of BS 9999.
All concealed voids in excess of 20m and around all window openings to be provided with cavity barriers and where external cavity crosses over compartment line of all fire resisting walls.
Provide cavity barriers at all compartment walls and in cavities at every 20m (Vertically & horizontally). All in accordance with Building Regulations and Fire Strategy.
All Ductwork & Services that pass through Protected Escape Routes to be 120min fire rated construction & be fully fire stopped to achieve 120min.
Ductwork & services that do not pass through Protected Escape Routes, but pass through fire separating elements are to be of a fire rated construction & fire stopped to achieve the same rating as the element it passes through.



1 West Elevation Fire Strategy
1 : 150

REVIEWED
By Darren Smethurst at 2:43 pm, Feb 03, 2023

P01 - First Issue



Manchester: 0161 228 0211
Fourth Floor, The Hive, 47 Lever Street,
Manchester M1 1FN
London: 0207 253 7644
Third Floor, 25 Chart Street,
London N1 6FA
www.5plusarchitects.com

PROJECT:
Science and Engineering
Building
TITLE:
West Elevation - Fire Strategy
New Build
SCALE: As indicated@A1
ORIGIN DATE: 24/01/23
DRAWN: JC
CHECKED: AP
STATUS:
Preliminary
PROJECT: 05894 - 1338B-5PA-NB-ZZ-DR-A-290301
DRAWING NO:
REV: P01