

Strip Sections General Notes

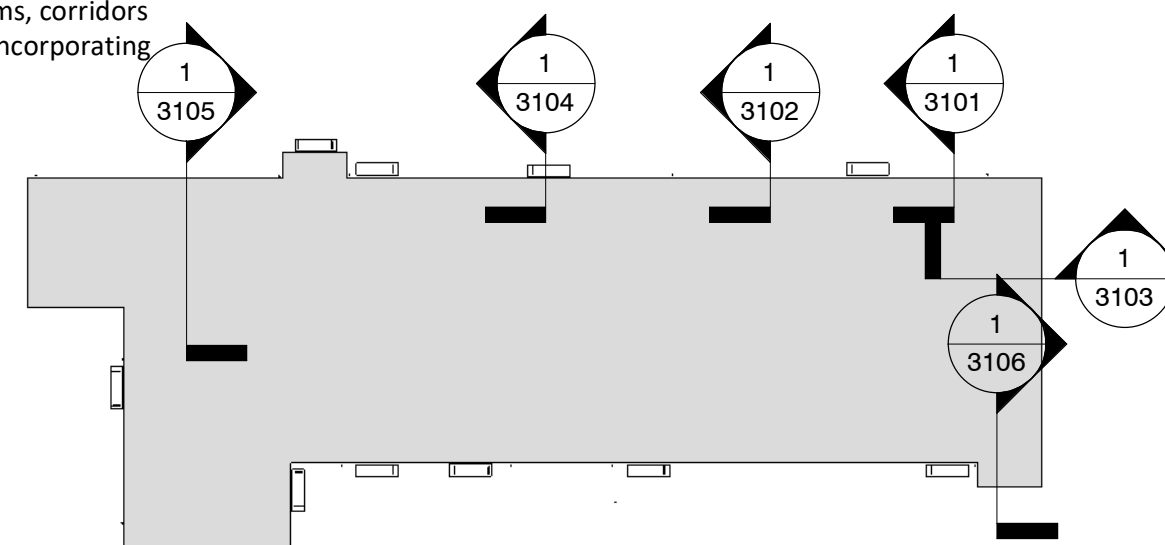
Drawing to be read in conjunction with:
- 11XXX Series_Setting Out
- 13XXX Series_Reflected Ceiling Plans
- 23XXX Series_Elevations Setting Out
- 40XXX Series_External Details
- 50XXX Series_Internal Details
- NBS Specification
- Structural details and specifications
- MEP details and specifications
- Site Investigation Report

Dimensions with * indicate measurement to gridline.

External Walls: Target U-value is 0.25W/m².K
Roofs: Target U-value is 0.17W/m².K
Exposed Ground Floor: Target U-value is 0.20W/m².K
Windows: Target U-value is 1.78W/m².K

Cavity Barrier
 Polymeric Membranes

FFL = Finished Floor Level
SSL = Structural Slab Level
FCL = Finished Ceiling Level



- Refer to :
- GA plans, 10XX
 - Internal area plans, 15XX
 - Ceiling Plans, 13XX
 - GA elevations, 20XX
 - GA Sections, 30XX
 - Construction sections, 31XX
 - Site sections, 39XX
 - External Envelope details, 40XX
 - Finishes plans, 46XX
 - Internal details, 50XX
 - Sanitary, 53XX
 - Stairs, 58XX
 - Lifts, 59XX
 - Materials, finishes and components, 77XX
 - Fire strategy plans, 81XX
 - Site flexibility & adaptability strategy plans, 83XX
 - Cleaning and maintenance strategy plans, 84XX
 - Internal Supervision Strategy plans, 85XX

Construction Design & Management (CDM) Regulations 2015

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Note, not all hazards listed below relate to all drawings. Refer to Hazard symbols on drawings

- | | |
|--|--|
| A Double height area. Works overhead, ensure suitable overhead protection netting, permits, scaffold etc. during works. | G Low parapets - Roof edge to be guarded by scaffolding during construction |
| B Full height staircores - works and stair installation overhead. | H M&E plant on roof - method for lifting needs to be employed. |
| C Lift opening between floors - ensure suitably covered during construction. | I Large glazed screens - ensure suitable method for installation established and minimise operative handling. |
| D Recess in slab - trip hazard until partitions and finishes installation | |
| E Rooflights - ensure careful methodology for installation. Openings through roof to be guarded during construction. | |
| F Lower level kitchen roof - ensure roof edge guarded during construction | |



Typical Roof.
Low level parapet within max. transportable module heights allowing for 150mm above highest ridge level. PPC coping to match window frames. Reduced insulation depth at perimeter of module to form inboard gutter across short axis of module and discharge into RWP along facade. Single ply membrane on rigid insulation of thickness to achieve U value of 0.17W/m2K, 9mm OSB decking, 120mm Mineral fibre insulation on VCL, 15mm GTEC Megadeco board. Falls to gutter position along building facade line. Roofs thermal performance will comply with AD L2 and noise intrusion from rainfall will not exceed 25 dbA LA eq 30mins.

Cavity Barrier.
Intumescent to maintain airpath behind cladding.

Suspended Ceiling.
Teaching spaces to have lay-in grid suspended ceilings with recessed luminaires. Standard floor to floor heights allows for classroom ceiling heights of 2700mm, higher ceilings are achieved by stacking modules. Offices, staff rooms, corridors and some specialist teaching to have lay-in grid suspended ceiling incorporating recessed luminaires..

Intermediate Floor.
200mm cold rolled steel sections infilled with 100mm insulation, with 50mm reinforced concrete topping to be power floated for direct appliance of finishes. 300mm wide strip of perimeter insulation to upper floor module with 6mm oil tempered hardboard to support in place..

Boarded Panel System.
Hardie Board or similar self finished board system, bracketed back through insulation to achieve a U value of 0.25 W/m2K to OSB/weather defence board (where appropriate) with breather membrane fix to SFS filled with insulation, VCL, 15mm robust plaster board internally..

Suspended Ceiling.
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External wall build-up complete with carefully specified external materials to be low maintenance.

Windows.
High and low level opening PPC aluminium windows to provide natural ventilation when required (in addition to mechanical ventilation solution). Opening lights to have initial restriction of 100mm deep opening beyond edge of cladding to comply with Part K and OS. Window head located within 200mm of soffit to meet OS requirement. Free area to meet M&E Engineer's requirements..

Ground Floor.
50mm fibre reinforced concrete on profiled metal deck with insulation fixed to underside of metal deck to achieve a U value of 0.2 W/m2K, DPM / Radon barrier above foundations.

Brickwork.
102.5mm brickwork, tied back to SFS with brick tie channels. Minimum 50mm clear cavity, partial fill cavity insulation on 12.5mm OSB/Weather Defence board (where appropriate) with 100mm SFS filled with insulation to achieve a U value of 0.25 W/m2K; to provide a robust durable and maintenance free plinth to the ground floor level.
Engineering brickwork below ground to DPC / Cavity tray level.
Cavity filled with lean concrete mix to ground level.
Cavity tray and weep holes. Telescopic ventilators to vent below ground void and to suit radon requirements..

S4	P03	18.08.20	Drawing number amended. CP Submission.	
STATUS	REV	DATE	DESCRIPTION	REVISED BY
CLIENT				RB
Caledonian Modular				CHECKED BY
				RW
				ORIGINATOR NO
				153608

CONSULTANT
STRIDE TREGLOWN
www.stridetreglow.com

PROJECT
Buckton Fields Primary School
Village of Boughton, Brampton Lane
Northampton
NN6 8AA

DRAWING TITLE
Construction Section - Through Gable End

SUITABILITY STATUS S4 : SUITABLE FOR STAGE APPROVAL	SCALE As indicated @ A1
PROJECT ORIGINATOR ZONE LEVEL TYPE ROLE CLASS. NUMBER FS0816-STL-XX-SE-DR-A-00-3103	REVISION P03

- Refer to :
- GA plans, 10XX
 - Internal area plans, 15XX
 - Celling Plans, 13XX
 - GA elevations, 20XX
 - GA Sections, 30XX
 - Construction sections, 31XX
 - Site sections, 39XX
 - External Envelope details, 40XX
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A Double height area. Works overhead, ensure suitable overhead protection netting, permits, scaffold etc. during works.

B Full height staircores - works and stair installation overhead.

C Lift opening between floors - ensure suitably covered during construction.

D Recess in slab - trip hazard until partitions and finishes installation

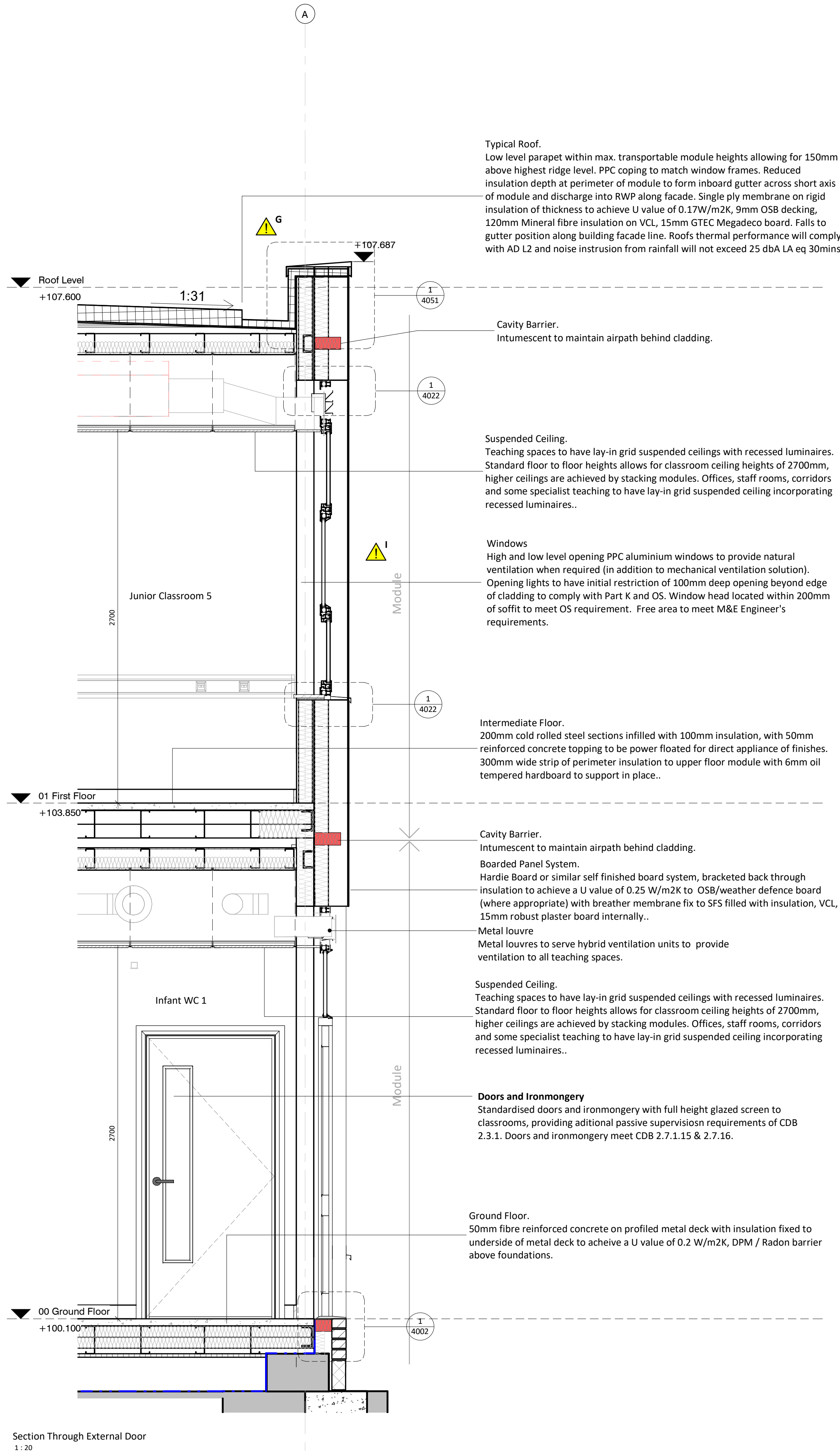
E Rooflights - ensure careful methodology for installation. Openings through roof to be guarded during construction.

F Lower level kitchen roof - ensure roof edge guarded during construction

G Low parapets - Roof edge to be guarded by scaffolding during construction

H M&E plant on roof - method for lifting needs to be employed.

I Large glazed screens - ensure suitable method for installation established and minimise operative handling.



Responsibility is not accepted for errors made by others in scaling from this drawing.
All construction information should be taken from figured dimensions only.



Strip Sections General Notes

Drawing to be read in conjunction with:
- 13XXX Series_Setting Out
- 13XXX Series_Reflected Ceiling Plans
- 21XXX Series_Elevations Setting Out
- 40XXX Series_External Details
- 50XXX Series_Internal Details
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Dimensions with * indicate measurement to gridline.

External Walls: Target U-value is 0.25W/m².K

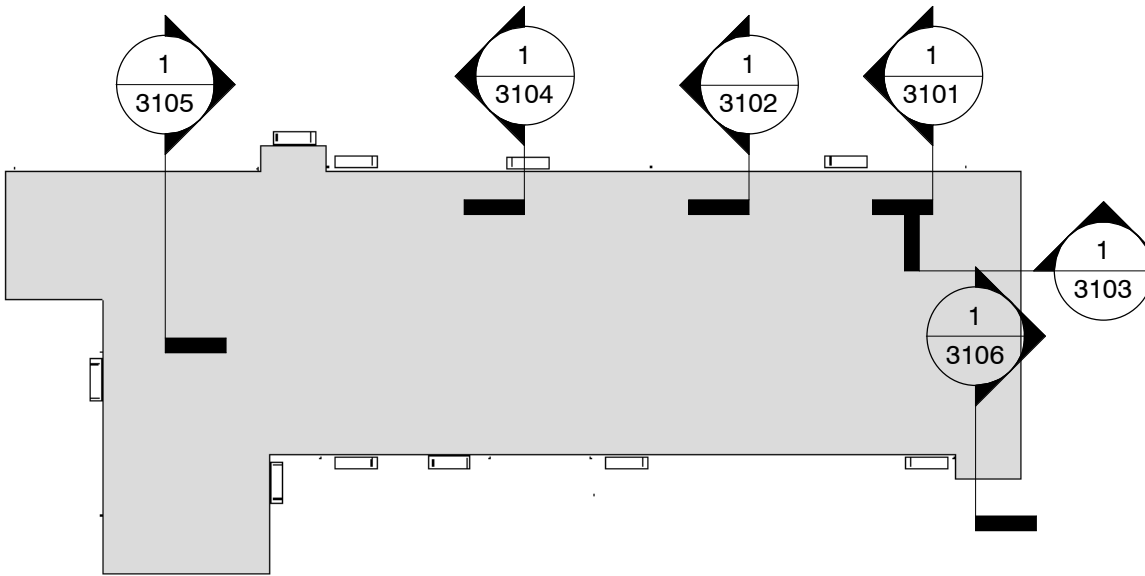
Roofs: Target U-value is 0.17W/m².K

Exposed Ground Floor: Target U-value is 0.20W/m².K

Windows: Target U-value is 1.78W/m².K

Cavity Barrier
 Polymeric Membranes

FFL = Finished Floor Level
SSL = Structural Slab Level
FCL = Finished Ceiling Level



S4	P03	18.08.20	Drawing number amended. CP Submission.	
STATUS	REV	DATE	DESCRIPTION	

CLIENT

REVISOR RB

CHECKED BY RW

ORIGINATOR NO 153608

CONSULTANT

STRIDE TREGLOWN

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PROJECT

Buckton Fields Primary School
Village of Boughton, Brampton Lane
Northampton
NN6 8AA

DRAWING TITLE

Construction Section Through External Door

SUITABILITY STATUS

S4 : SUITABLE FOR STAGE APPROVAL

SCALE

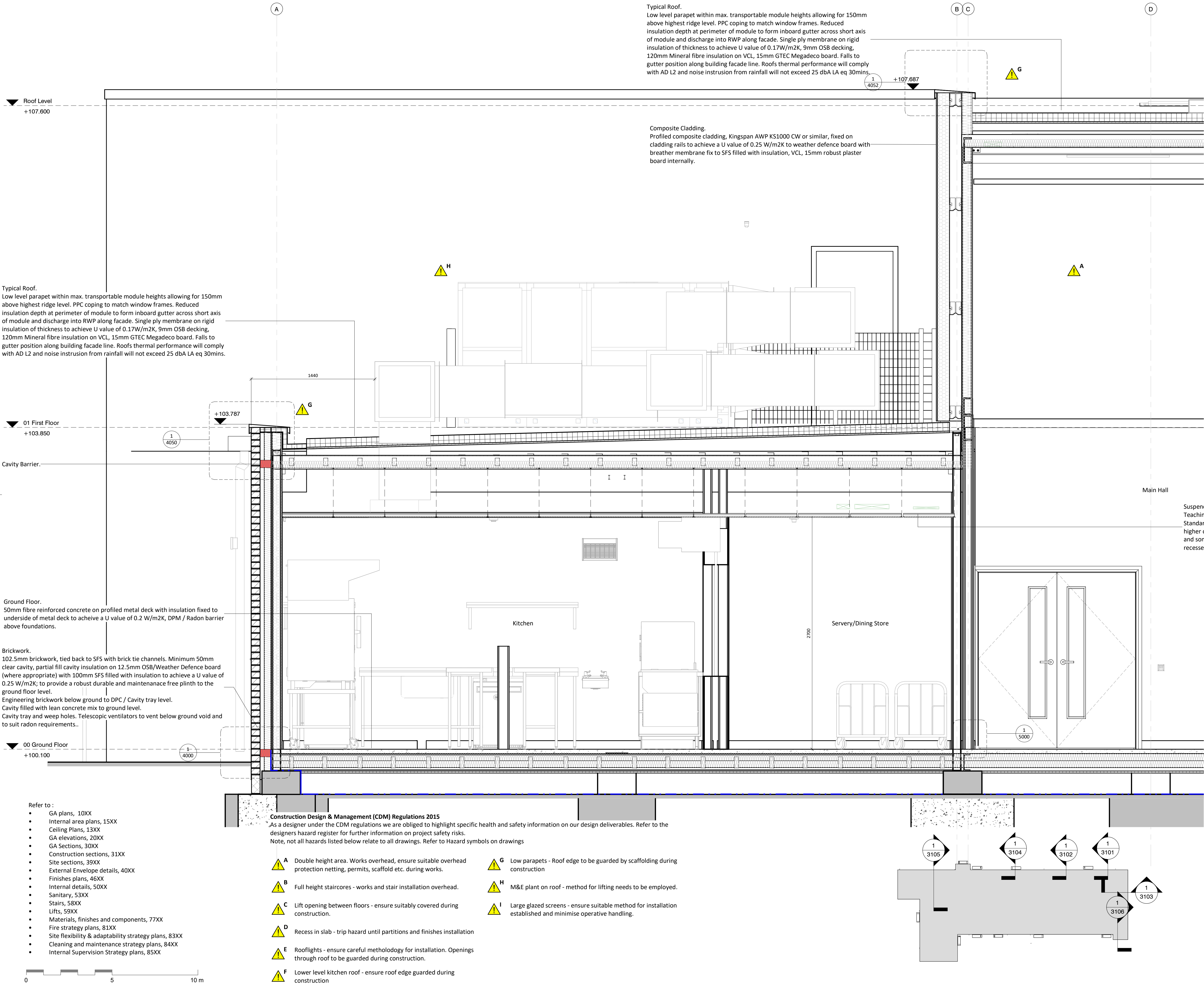
As indicated @ A1

PROJECT | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | CLASS | NUMBER

FS0816-STL-XX-SE-DR-A-00-3104

REVISION

P03



Responsibility is not accepted for errors made by others in scaling from this drawing.
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0mm 50mm 100mm

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S4	P03	18.08.20	Drawing number amended. CP Submission.	
STATUS	REV	DATE	DESCRIPTION	
CLIENT			REVISED BY	
			RB	
			CHECKED BY	
			RW	
			ORIGINATOR NO	
			153608	

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PROJECT

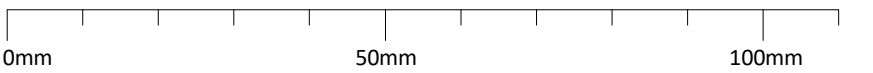
Buckton Fields Primary School
Village of Boughton, Brampton Lane
Northampton
NN6 8AA

DRAWING TITLE

Construction Section - Through Main Hall and Kitchen

SUITABILITY STATUS	SCALE
S4 : SUITABLE FOR STAGE APPROVAL	As indicated @ A1
PROJECT ORIGINATOR ZONE LEVEL TYPE ROLE CLASS NUMBER	REVISION
FS0816-STL-XX-SE-DR-A-00-3105	P03

Responsibility is not accepted for errors made by others in scaling from this drawing.
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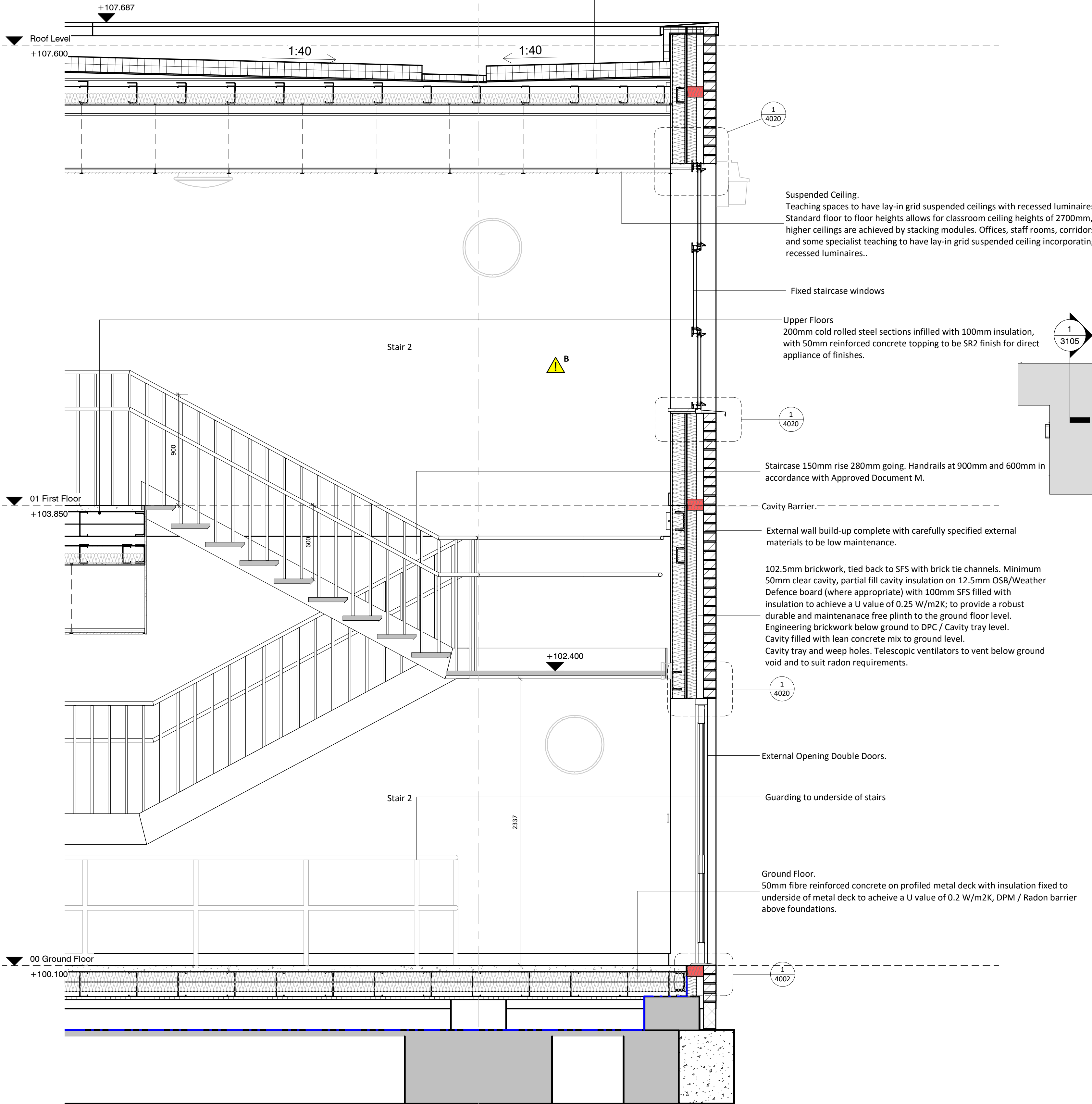
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Typical Roof.
Low level parapet within max. transportable module heights allowing for 150mm above highest ridge level. PPC coping to match window frames. Reduced insulation depth at perimeter of module to form inboard gutter across short axis of module and discharge into RWP along facade. Single ply membrane on rigid insulation of thickness to achieve U value of 0.17W/m2K, 9mm OSB decking, 120mm Mineral fibre insulation on VCL, 15mm GTEC Megadeco board. Falls to gutter position along building facade line. Roofs thermal performance will comply with AD L2 and noise intrusion from rainfall will not exceed 25 dbA LA eq 30mins.



Suspended Ceiling.
Teaching spaces to have lay-in grid suspended ceilings with recessed luminaires. Standard floor to floor heights allows for classroom ceiling heights of 2700mm, higher ceilings are achieved by stacking modules. Offices, staff rooms, corridors and some specialist teaching to have lay-in grid suspended ceiling incorporating recessed luminaires..

Fixed staircase windows

Upper Floors
200mm cold rolled steel sections infilled with 100mm insulation, with 50mm reinforced concrete topping to be SR2 finish for direct appliance of finishes.

Staircase 150mm rise 280mm going. Handrails at 900mm and 600mm in accordance with Approved Document M.

Cavity Barrier.

External wall build-up complete with carefully specified external materials to be low maintenance.

102.5mm brickwork, tied back to SFS with brick tie channels. Minimum 50mm clear cavity, partial fill cavity insulation on 12.5mm OSB/Weather Defence board (where appropriate) with 100mm SFS filled with insulation to achieve a U value of 0.25 W/m2K; to provide a robust durable and maintenance free plinth to the ground floor level. Engineering brickwork below ground to DPC / Cavity tray level. Cavity filled with lean concrete mix to ground level. Cavity tray and weep holes. Telescopic ventilators to vent below ground void and to suit radon requirements.

External Opening Double Doors.

Guarding to underside of stairs

Ground Floor.
50mm fibre reinforced concrete on profiled metal deck with insulation fixed to underside of metal deck to acheive a U value of 0.2 W/m2K, DPM / Radon barrier above foundations.


Section Through Stair External Door
1 : 20


- Refer to :
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 **H** M&E plant on roof - method for lifting needs to be employed.

 **I** Large glazed screens - ensure suitable method for installation established and minimise operative handling.



S4	P03	18.08.20	Drawing number amended. CP Submission.	
STATUS	REV	DATE	DESCRIPTION	
CLIENT			REVISED BY	
			RB	
			CHECKED BY	
			RW	
			ORIGINATOR NO	
			153608	

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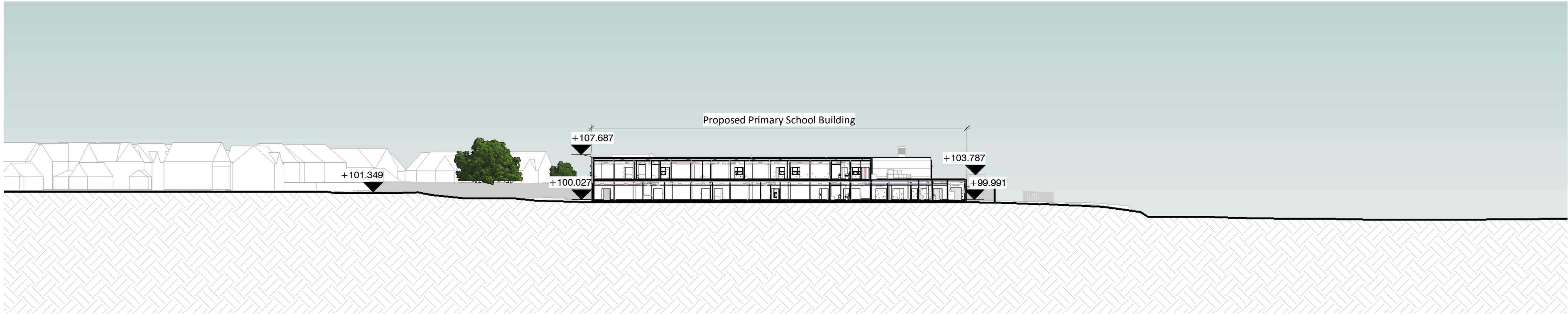
PROJECT

Buckton Fields Primary School
Village of Boughton, Brampton Lane
Northampton
NN6 8AA

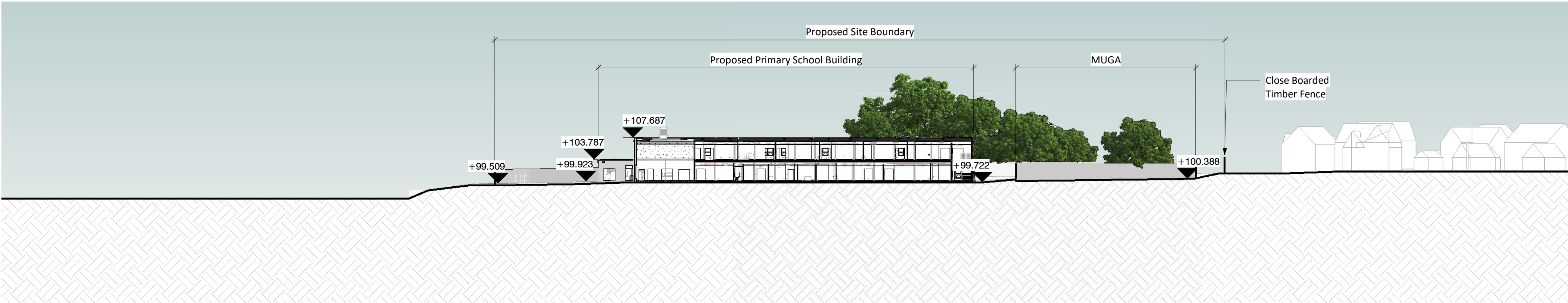
DRAWING TITLE

Construction Section - Through Stair External Door

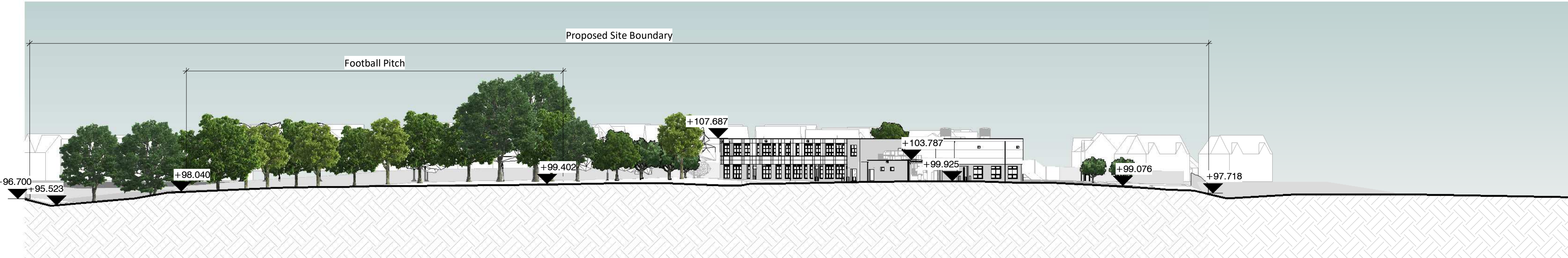
SUITABILITY STATUS		SCALE
S4 : SUITABLE FOR STAGE APPROVAL		As indicated @ A1
PROJECT ORIGINATOR ZONE LEVEL TYPE ROLE CLASS NUMBER	REVISION	
FS0816-STL-XX-SE-DR-A-00-3106	P03	



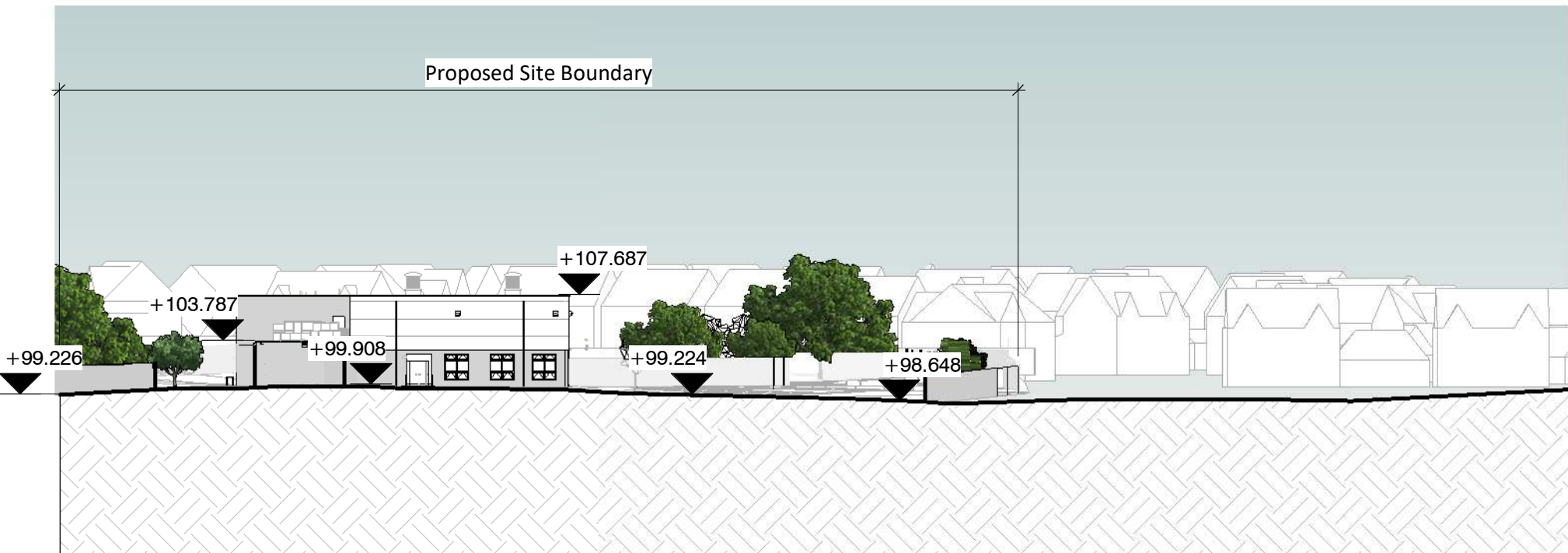
Proposed Site Section 1
1 : 500



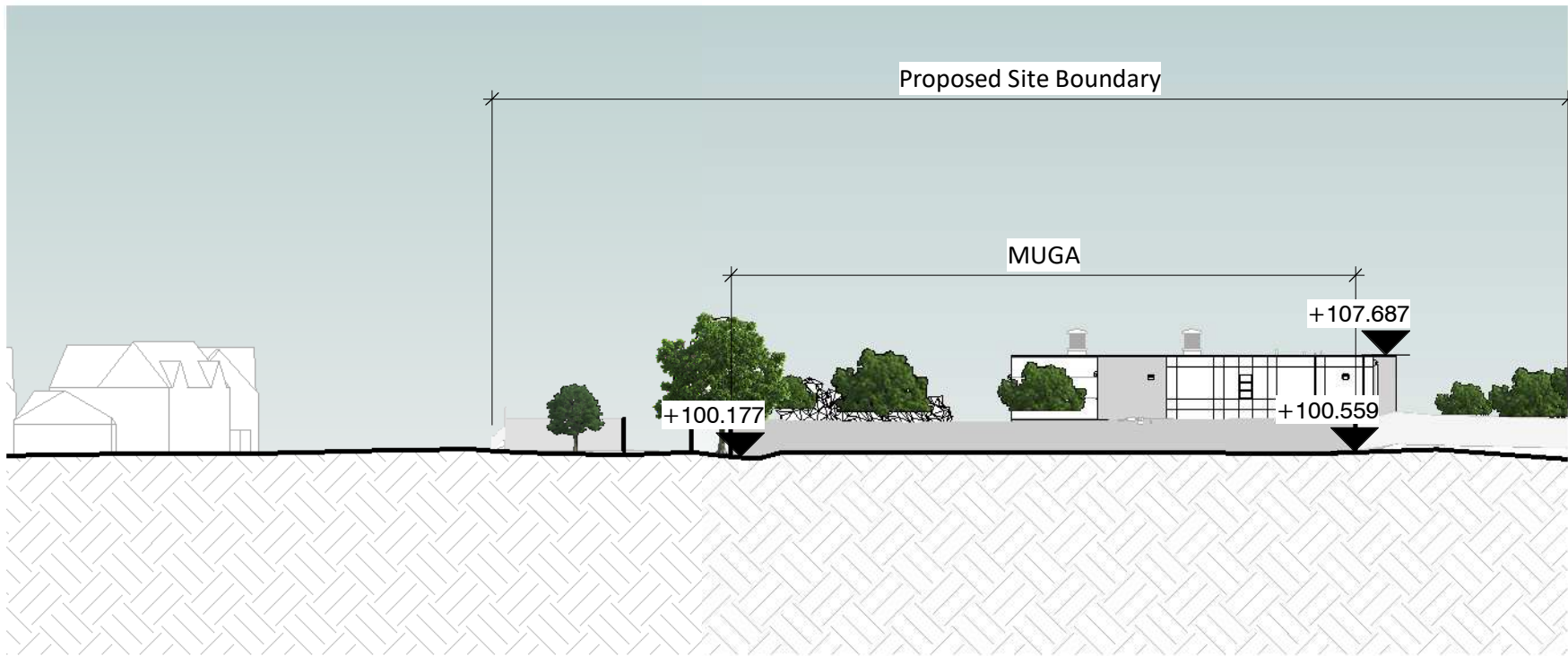
Proposed Site Section 2
1 : 500



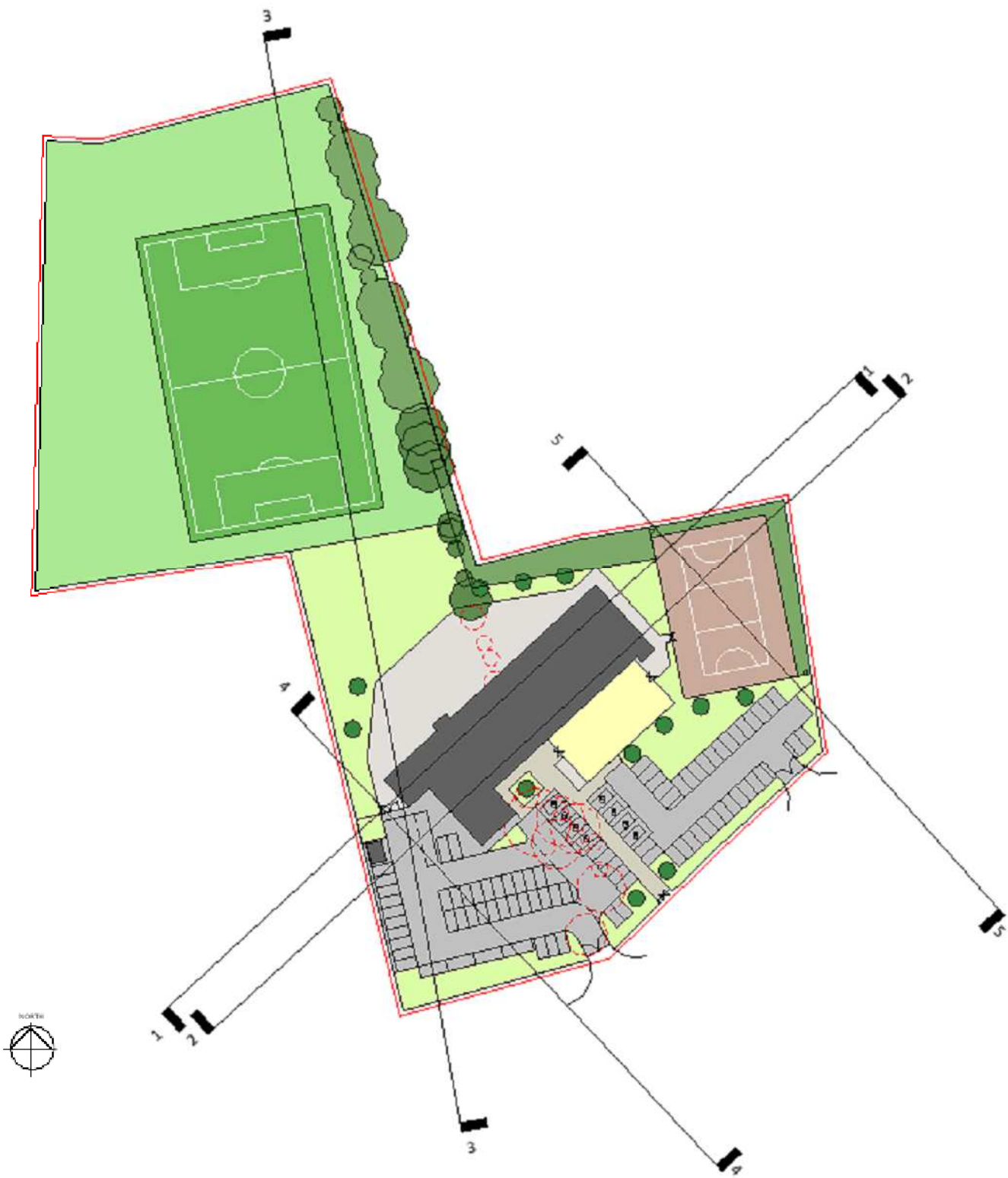
Proposed Site Section 3
1 : 500



Proposed Site Section 4
1 : 500



Proposed Site Section 5
1 : 500

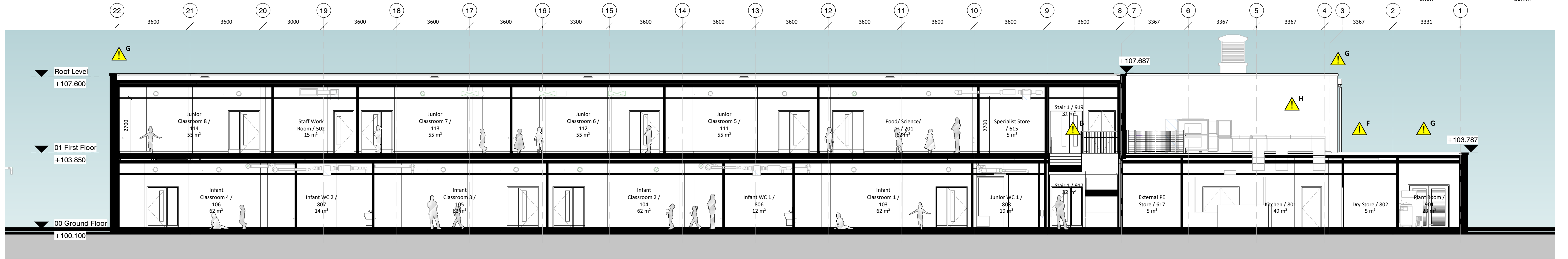


S4	P06	28.09.20	CP Clarifications
S4	P05	18.08.20	Drawing number amended. CP Submission.
STATUS	REV	DATE	DESCRIPTION
CLIENT			REVISED BY WD
			CHECKED BY RB
			ORIGINATOR NO 153608

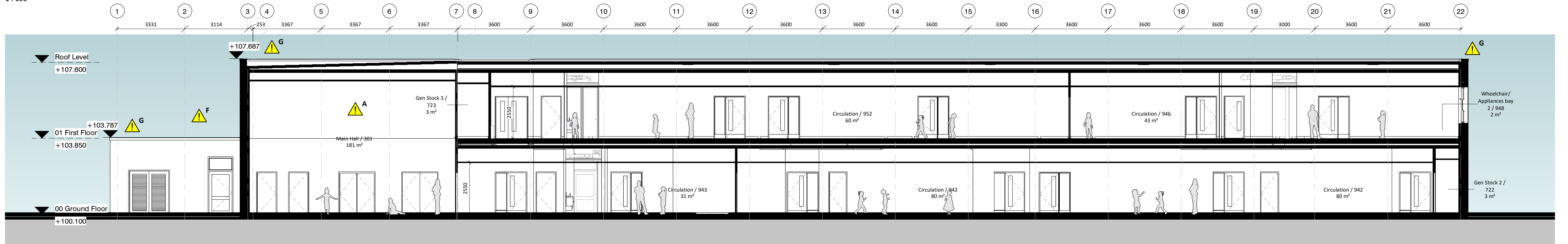
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PROJECT
Buckton Fields Primary School
Village of Boughton, Brampton Lane
Northampton
NN6 8AA

DRAWING TITLE
Proposed Site Sections

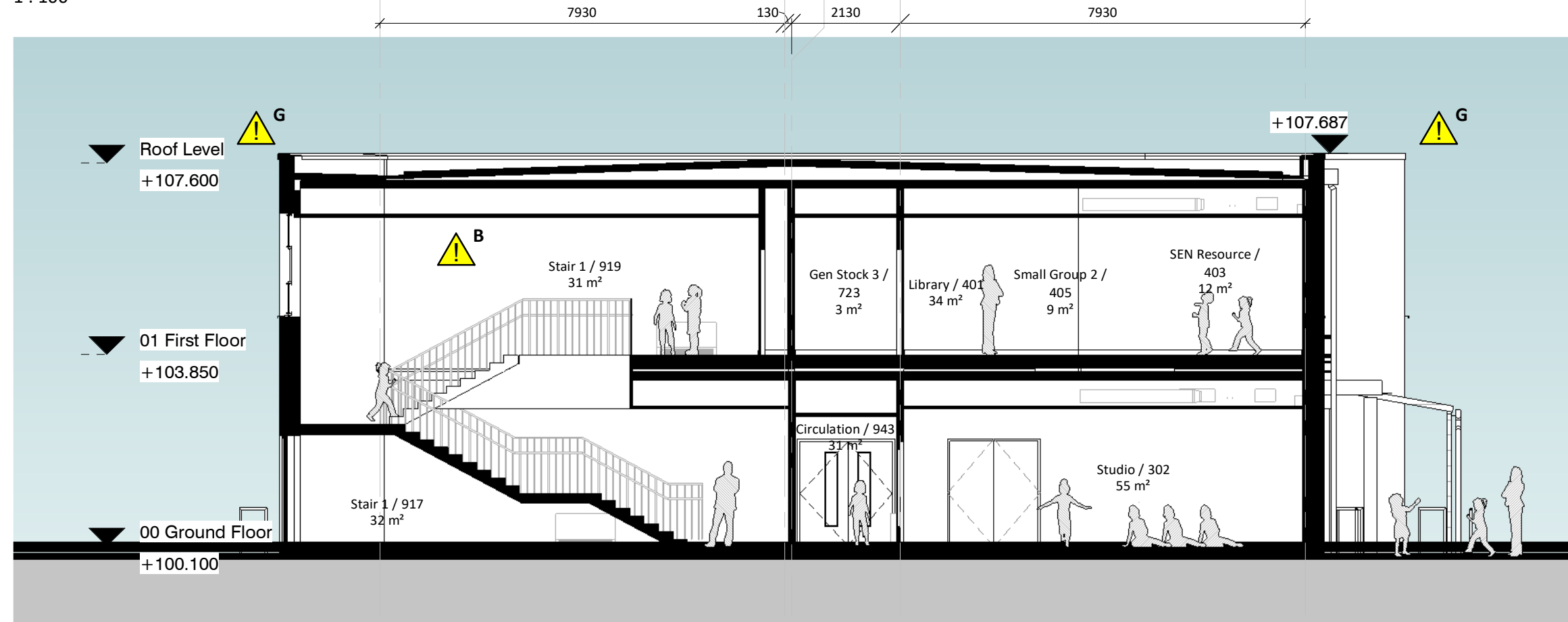
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PROJECT ORIGINATOR ZONE LEVEL TYPE ROLE CLASS NUMBER FS0816-STL-XX-SE-DR-A-00-3950	REVISION P06



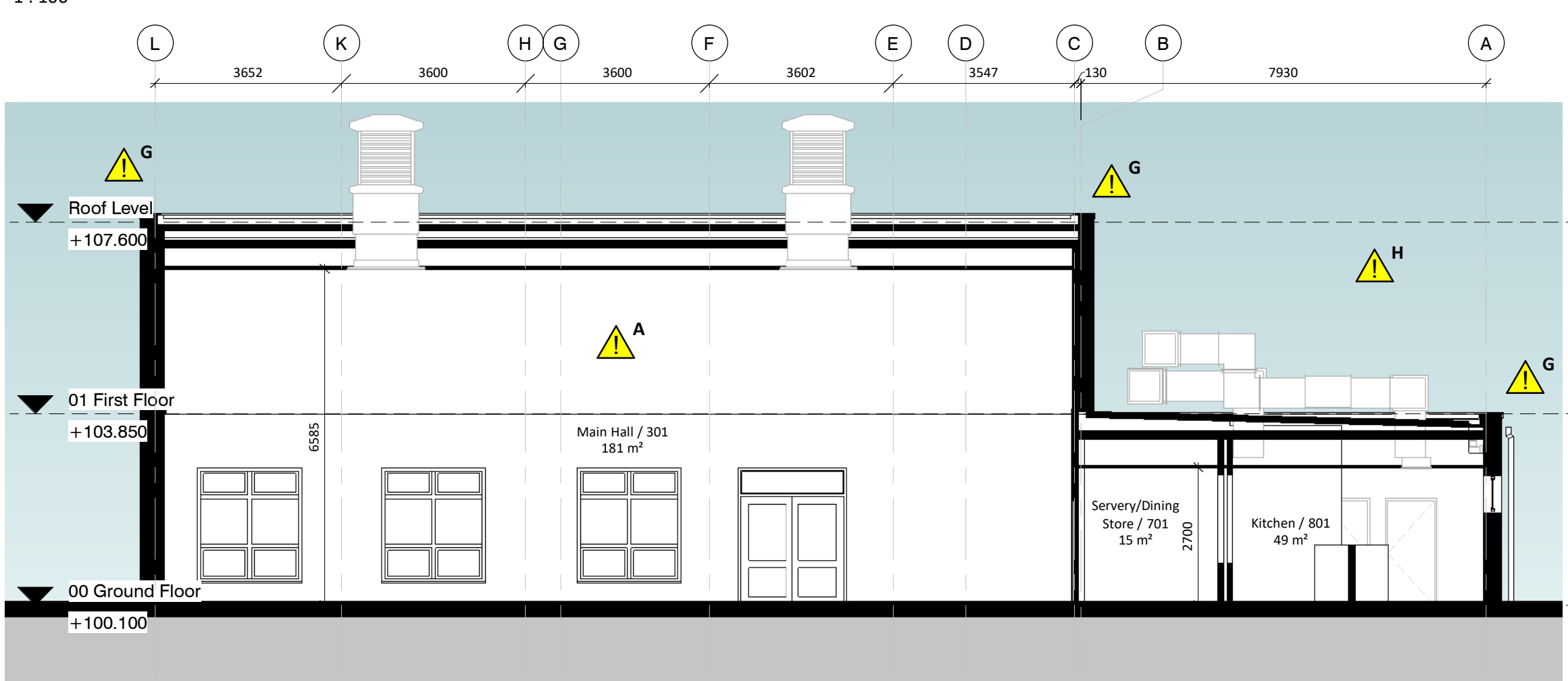
Long Section AA
1 : 100



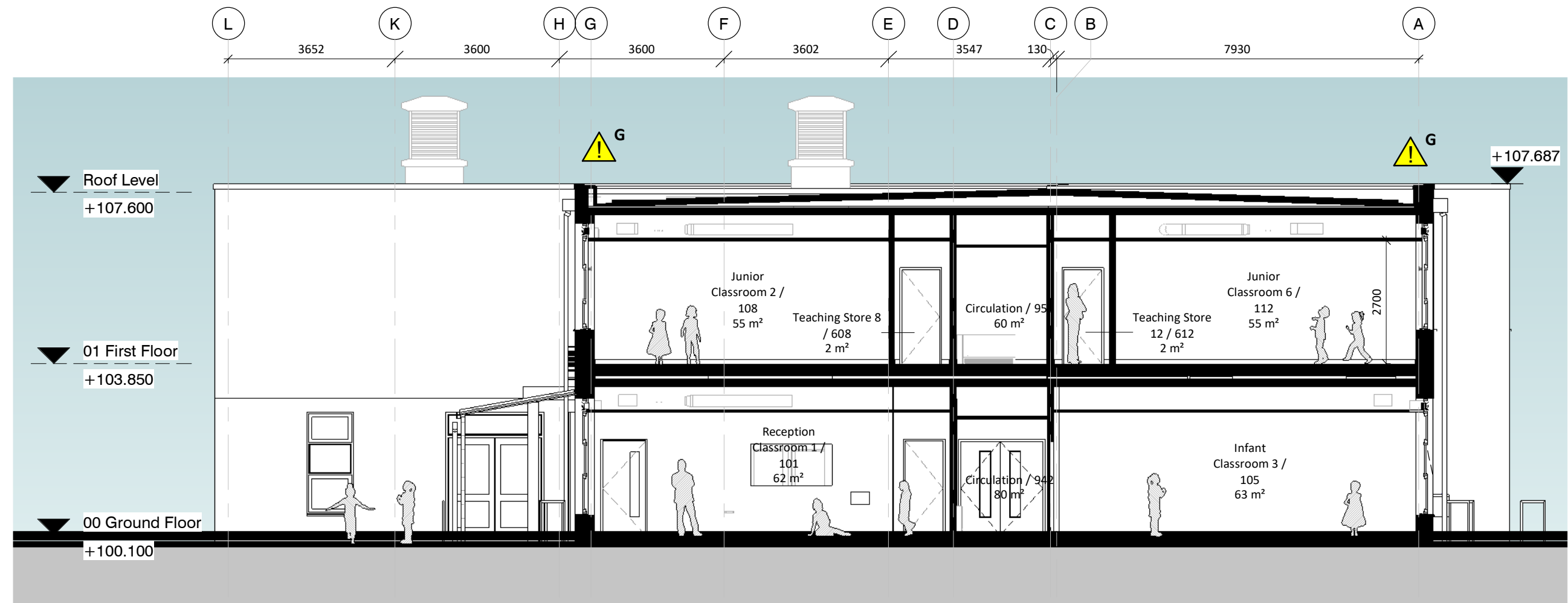
Long Section BB
1 : 100



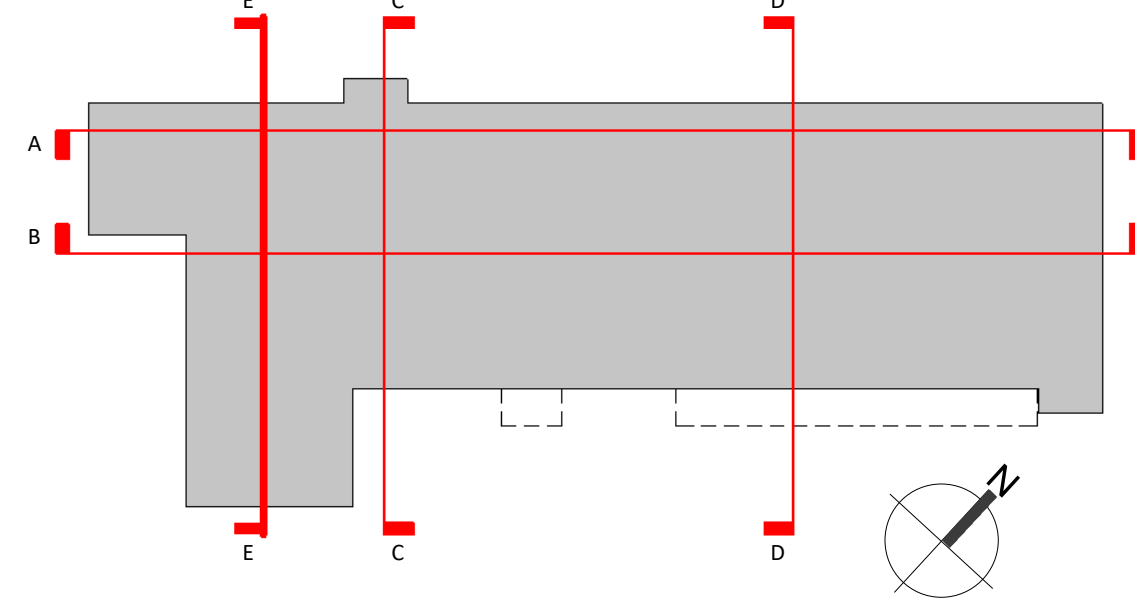
Short Section CC
1 : 100



Short Section EE
1 : 100



Short Section DD
1 : 100



GA Section Key
1 : 500

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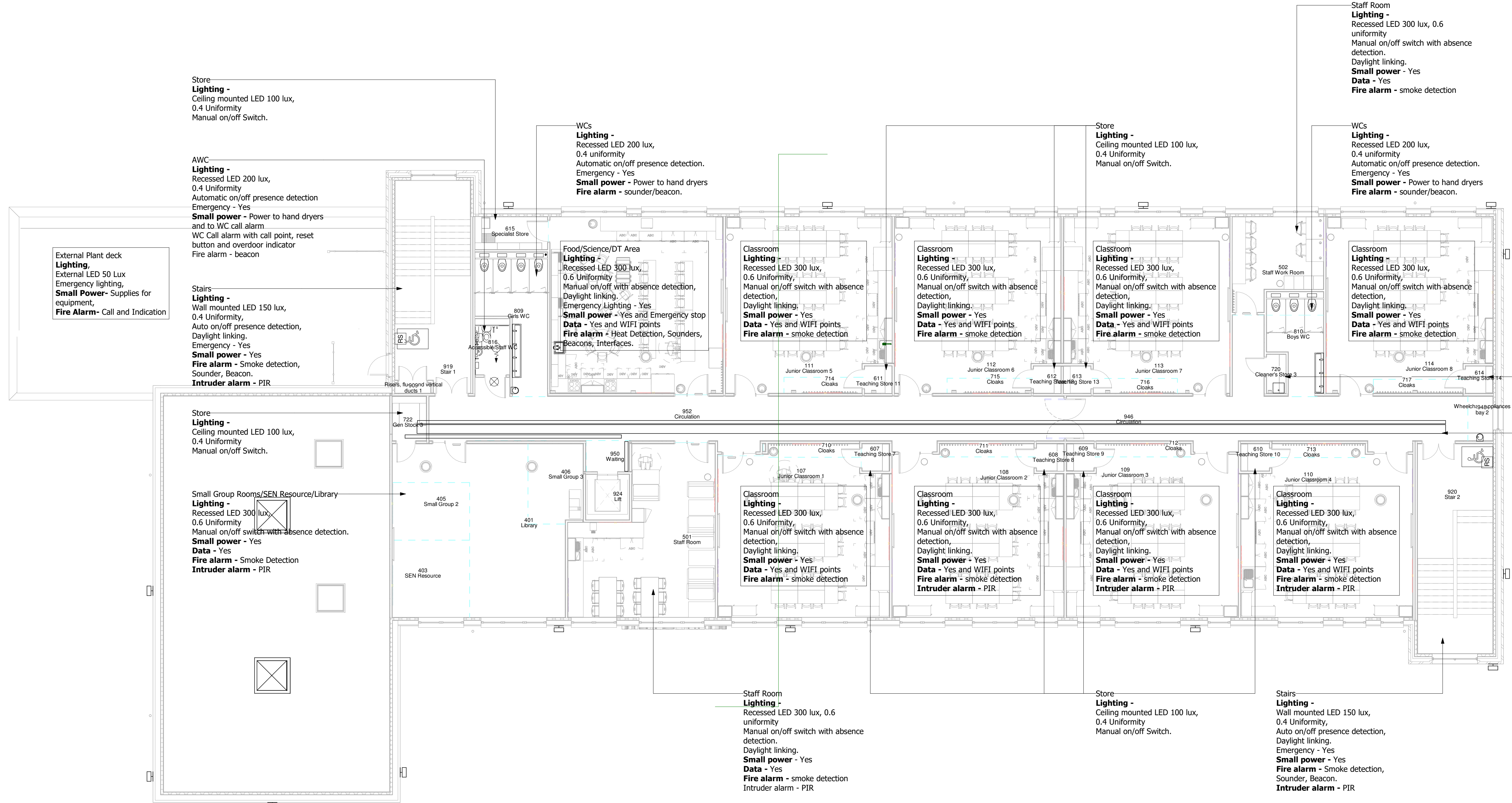
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S4	P09	22.09.20	CP Clarifications - Room numbers added
S4	P08	18.08.20	Drawing number amended. CP Submission
STATUS	REV	DATE	DESCRIPTION
CLIENT			REVISED BY JL
			CHECKED BY RB
			ORIGINATOR NO 153608

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PROJECT
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Northampton
NN6 8AA

SUITABILITY STATUS S4 : SUITABLE FOR STAGE APPROVAL	As indicated @ A1
PROJECT ORIGINATOR ZONE LEVEL TYPE ROLE CLASS NUMBER FS0816-STL-XX-SE-DR-A-00-3000	REVISION P09



- Notes**
1. If in doubt, ask the Project Lead.
 2. Do not scale this drawing.
 3. All dimensions are in millimetres unless stated otherwise.
 4. This drawing is to be read in conjunction with all other relevant drawings and specifications.
 5. All Proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.

P04	Issued for Full CP's	MB	03.07.2020
P03	Updated for Design Team Comments	MC	22.04.2020
P02	Issued for Draft CP's	MC	06.04.2020
P01	Issued for CEM 5 review	MC	12.03.2020
Rev	Amendments	Rev'd By	Date



Project
Buckton Fields Primary School

Title
Electrical Services Strategy
First Floor

Drawing Number (Project, Originator, Volume, Level, Type, Role, Class & No.)

F50816 - WLK - 00 - 01 - DR - E - 00 - 0001

Internal Project Reference
190280

Suitability | Suitable For
S4 - Suitable for Stage Approval

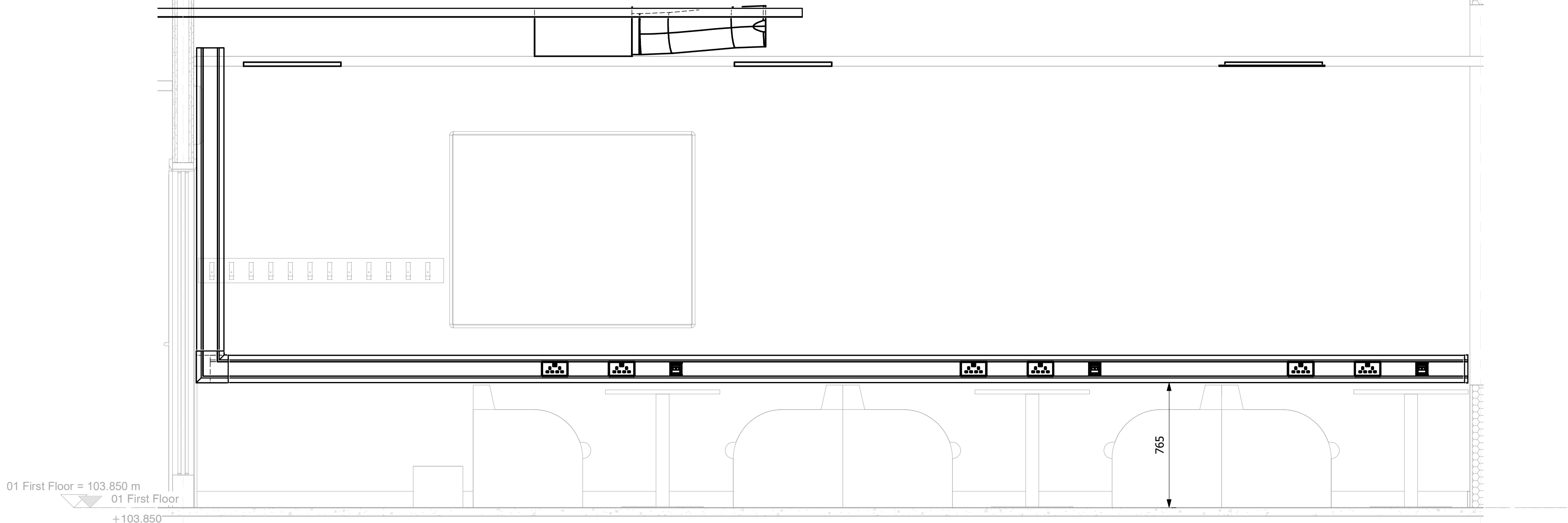
Scale	Created	Revision
1 : 100 @ A1	Feb 20	P04
Project Lead	Drawn	MC
MC	Reviewed	GN
	Approved	AI
		for Issue



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3. "Waldeck" is a Trading Style of Waldeck Associates Ltd registered in England and Wales Company NP 3450319.



01 - Staff Room
1 : 20



01 - Small Power & Data - Sheet 1 of 2
1 : 50

Small Power Acronyms	
AC	Access Control
AD	Automatic Door
BMS	Building Management System
C	Cleaners Socket
CCTV	CCTV Cameras
CP	Cooker Point
CV	Celling Void
DB	Distribution Board Meter
DW	Dishwasher
DX	DX Unit
ED	Extract Fan
EXT	External CCTV
FR	Fridge
HD	Hand Dryer
HO	Hoist
HU	Heat Recovery Unit
IWB	Interactive White Board
KC	Kitchen Canopy
MCW	Microwave
NVHU	Natural Ventilation Hybrid Unit
ODH	Overdoor Heater
PH	Panel Heater
PR	Projector
RS	Roller Shutter
SC	Overhead Screen
SP	Speaker
WHR	Mechanical Ventilation Heat Recycler (in ceiling void)
WAP	Wireless Access Point (in ceiling void)
WB	Instantaneous Hot Water Boiler
WCP	Washing Machine

Construction, Design and Management Regulations 2015	
The Contractors attention is drawn to the abnormal risks identified below, annotated on the drawing and explained in the associated design risk registers.	
Legend	
	You Must Not Do
	Hazard or Danger
	You Must Do
	Caution
Abnormal Risks Identified:	
1. No Abnormal Risks Identified	

- ### Notes
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 - This drawing is to be read in conjunction with all other relevant drawings and specifications.
 - All Proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.
- ### Small Power & Data Notes
- The Electrical Contractor shall be responsible for the design and installation of the small power services.
 - Positions of all power and data outlets are considered RRD items to be agreed with the school and the DfE after contract award.
 - All small power circuits shall be suitably RCD/RCBO protected.
 - Power supplies for specific equipment may not have been shown and shall be included by the Electrical Contractor to ensure a complete installation of the electrical equipment.
 - Co-ordination will be required between the Electrical Contractor, Caledonian Modular and the Mechanical Contractor for data trunking positions.
 - The total number of power outlets shall be 504No. to comply with the EFA Part B - Component Primary Design Brief (CPDB) requirements of 1.2 outlets per pupil place (based on 420 pupil places). These will be divided into single and double outlets around the school. A twin socket outlet will be deemed as 2No. power outlets. Refer to note 2.
 - The total number of data points shall be 294No. to comply with the EFA Part B - Component Primary Design Brief (CPDB) requirements of 0.7 outlets per pupil place (based on 420 pupil places).
 - An AV wiring loom shall be provided to each teaching space, hall and meeting room.
 - Cabling shall be provided by the Electrical Contractor, between the AV equipment and the teacher's station. Faceplates and final connections shall be carried out by the school's third-party IT supplier.
 - The plantroom layout shall adhere to all British Standards regarding separation of supplies in a shared plantroom. The equipment shall be sized in relation with the EFA Part B - Component Primary Design Brief (CPDB) standards and give a spare space, a competent person shall install the equipment.

Small Power Legend

- Switched Single Socket Outlet
- Switched Single Socket Outlet (Cleaners)
- Switched Twin Socket Outlet
- Single Data Outlet
- Twin Data Outlet
- Switched Fused Connection Unit
- Unswitched Fused Connection Unit
- 20A DP Lockable Isolator
- Double Back Box for AV
- Flex Outlet Plate
- CO2 Sensor
- Ventilation Booster Switch
- Cooker Point (45A Double Pole Switch)
- Cooker Outlet Plate
- SP&N BS EN 60309 Socket (Rating as Denoted)
- SP&N Isolator (Rating as Denoted)
- TP&N Isolator (Rating as Denoted)
- SP&N Distribution Board
- TP&N Distribution Board

p02	Issued for Full CP's - Updated in line with Caledonian Comments	MB	13.08.2020
P01	Issued for Full CP's	MB	03.07.2020
Rev	Amendments	By	Date
Client:			



Project
Buckton Fields Primary School

Title
First Floor
Proposed Small Power & Data Layout
Sheet 1 of 2

Drawing Number (Project, Originator, Volume, Level, Type, Role, Class & No.)

F50816 - WLK - 00 - 01 - DR - E - 70 - 0001

Internal Project Reference
190280

Suitability | Suitable For
S4 - Suitable for Stage Approval

Scale	Created	Revision
As indicated @ A0	June 20	P02
Project Lead	Drawn	M.B. Checked M.C.
M.C.	Reviewed M.C.	Approved A.L. for Issue



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01 - Small Power & Data - Sheet 2 of 2

1 : 50

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Construction, Design and Management Regulations 2015

The Contractors attention is drawn to the abnormal risks identified below, annotated on the drawing and explained in the associated design risk registers.

Legend

- You Must Not Do
- Hazard or Danger
- You Must Do
- Caution

Abnormal Risks Identified:

1. No Abnormal Risks Identified

- Notes**
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 - Do not scale this drawing.
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 - All Proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.

Small Power & Data Notes

- The Electrical Contractor shall be responsible for the design and installation of the small power services.
- Positions of all power and data outlets are considered RDD items to be agreed with the school and the DfE after contract award.
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- The total number of data points shall be 294No. to comply with the EFA Part B - Component Primary Design Brief (CPDB) requirements of 0.7 outlets per pupil place (based on 420 pupil places).
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- The plantroom layout shall adhere to all British Standards regarding separation of supplies in a shared plantroom. The equipment shall be sited in relation with the EFA Part B - Component Primary Design Brief (CPDB) standards and give a spare space, a competent person shall install the equipment.

Small Power Acronyms

AC	Access Control
AD	Automatic Door
BMS	Building Management System
C	Cleaners Socket
CCTV	CCTV Cameras
CP	Cooker Point
CV	Ceiling Voids
DB	Distribution Board Meter
DW	Dishwasher
DX	DX Unit
ED	Extract Fan
EXT	External CCTV
FR	Fridge
HD	Hand Dryer
HO	Hoist
HRU	Heat Recovery Unit
IWB	Interactive White Board
KC	Kitchen Canopy
MCW	Microwave
NVHU	Natural Ventilation Hybrid Unit
ODH	Overdoor Heater
PH	Panel Heater
PR	Projector
RS	Roller Shutter
SC	Overhead Screen
SP	Speaker
MVHR	Mechanical Ventilation Heat Recycler (in ceiling void)
WAP	Wireless Access Point (in ceiling void)
WB	Instantaneous Hot Water Boiler
WCCP	Wind Catcher Control Panel
WM	Washing Machine

Small Power Legend

- Switched Single Socket Outlet
- Switched Single Socket Outlet (Cleaners)
- Switched Twin Socket Outlet
- Single Data Outlet
- Twin Data Outlet
- Switched Fused Connection Unit
- Unswitched Fused Connection Unit
- 20A DP Lockable Isolator
- Double Back Box for AV
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- Cooker Point (45A Double Pole Switch)
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- SP&N BS EN 60309 Socket (Rating as Denoted)
- SP&N Isolator (Rating as Denoted)
- TP&N Isolator (Rating as Denoted)
- SP&N Distribution Board
- TP&N Distribution Board

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P01	Issued for Full CP's	MB	03.07.2020
Rev	Amendments	Rev'd	By
Client			



Project
Buckton Fields Primary School

Title
First Floor
Proposed Small Power & Data Layout
Sheet 2 of 2

Drawing Number (Project, Originator, Volume, Level, Type, Role, Class & No.)

F50816 - WLK - 00 - 01 - DR - E - 70 - 0002

Internal Project Reference

190280

Suitability | Suitable For

S4 - Suitable for Stage Approval

Scale Created Revision

As indicated @ A0 31.03.20 P02

Project Lead Drawn M.B. Checked M.C.

M.C. Reviewed M.C. Approved A.L. for Issue



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S60 5WG
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Construction, Design and Management Regulations 2015

The Contractors attention is drawn to the abnormal risks identified below, annotated on the drawing and explained in the associated design risk registers.

Legend

You Must Not Do

Hazard or Danger

You Must Do

Caution

Abnormal Risks Identified:
1. No abnormal risks identified

NOTES

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2. Do not scale this drawing.

3. All dimensions are in millimetres unless stated otherwise.

4. This drawing is to be read in conjunction with all other relevant drawings and specifications.

5. All Proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.

Lighting Notes

1. Lighting shall be designed in accordance with CIBSE / SLL LGS Lighting for Education.

2. Emergency Lighting shall be designed in accordance with BS 5266 Part 1.

3. The whole of the lighting installation shall be designed and installed in accordance with the design requirements of the EFA Part B - Component Primary Design Brief (CPDB) and the Area Data Sheets.

4. Where quantities and positions have been shown, they shall be verified and amended to suit the Electrical Contractor's design.

5. Passive exit signage has been assumed throughout, with the exception of the Hall where illuminated exit signs are shown. This shall be confirmed by the fire officer and within the fire strategy document once available.

6. The positions and quantities of automatic controls are indicative only of the design intent, the Electrical Contractor shall be responsible for ensuring that the quantity and locations suit the design to ensure a fully compliant installation.

7. Local key isolation switches shall be provided for all automatic controls.

8. The Contractor shall ensure that the proposed lighting design is suitable for the proposed ceiling type.

9. Where a suspended ceiling grid is proposed, the Contractor shall ensure that the positions of the proposed lighting are co-ordinated with the proposed grid.

10. The lighting layouts will need to be co-ordinated with all other services.

11. Where daylight linking is required, the Contractor shall ensure that the luminaires are DALI dimmable to fully work with the proposed controls.

12. The maximum lighting energy load in the Classrooms is 2.4W/m² per 100 lux.

13. The EFA Part B - Component Primary Design Brief (CPDB) requires that dimming is provided to enable the teaching staff to reduce the lighting levels in spaces which are fitted with data projectors or interactive whiteboards.

14. The final positions of the Emergency Exit Signs shall be determined by the fire strategy document/drawings and confirmed by the fire officer and building control.

Lighting Legend

- LCM

Lighting Control Module
- 1 Gang 1 Way Switch
- 1 Gang 2 Way Switch
- Retractive Switch
- Dimmer Switch - Retractive
- 360 Presence Detector
- 360 Absence Detector
- 360 Absence Detector with Daylight Dimming
- Long Range Presence Detector

01 - Lighting Layout - Sheet 1 of 2
1 : 50

Lighting Fixture Schedule		
Type Mark	Description	Manufacturer
A	600 x 600mm LED Panel c/w DALI Dimming	Apollo Lighting (or equal and approved)
A1	600 x 600mm LED Panel Fixed Output	Apollo Lighting (or equal and approved)
B	Circular Surface Mounted LED Luminaire	Apollo Lighting (or equal and approved)
C	LED Circular recessed downlighter	Apollo Lighting (or equal and approved)
D	LED Circular recessed downlighter	Apollo Lighting (or equal and approved)
E1	Circular Spot Emergency Recessed Luminaire with Corridor Optic	Apollo Lighting (or equal and approved)
E2	Circular Spot Emergency Recessed Luminaire with Open Optic	Apollo Lighting (or equal and approved)
E3	IP65 Rated Circular Spot Emergency Surface Mounted Luminaire with Corridor Optic	Apollo Lighting (or equal and approved)
E4	IP65 External LED Emergency Bulkhead	Apollo Lighting (or equal and approved)
EXIT	Ceiling Mounted LED Emergency Exit Sign	Apollo Lighting (or equal and approved)
F	600 x 600mm LED Panel c/w DALI Dimming	Apollo Lighting (or equal and approved)
F1	600 x 600mm LED Panel Fixed Output	Apollo Lighting (or equal and approved)
G	Surface Mounted Circular LED Luminaire	Apollo Lighting (or equal and approved)
GE	Surface Mounted Circular LED Luminaire c/w 3HR emergency battery unit	Apollo Lighting (or equal and approved)
H	IP40 Rated, 4000K 1200 x 600mm LED Panel	Apollo Lighting (or equal and approved)
J	IP65 Rated, 4000K 600 x 600mm LED Panel	Apollo Lighting (or equal and approved)
K	IP65 Surface Mounted Linear LED Luminaire	Apollo Lighting (or equal and approved)

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P01	Issued for Full CPs		MB	03.07.2020
Rev	Amendments		Rev'd By	Date

Client



Project
Buckton Fields Primary School

Title
First Floor
Proposed Lighting Layout
Sheet 1 of 2

Drawing Number (Project, Originator, Volume, Level, Type, Role, Class & No.)

FS0816 - WLK - 00 - 01 - DR - E - 70 - 0003

Internal Project Reference
190280

Suitability | Suitable for
S4 - Suitable for Stage Approval

Scale
As indicated @ A0

Created
31.03.20

Project Lead
M.C.

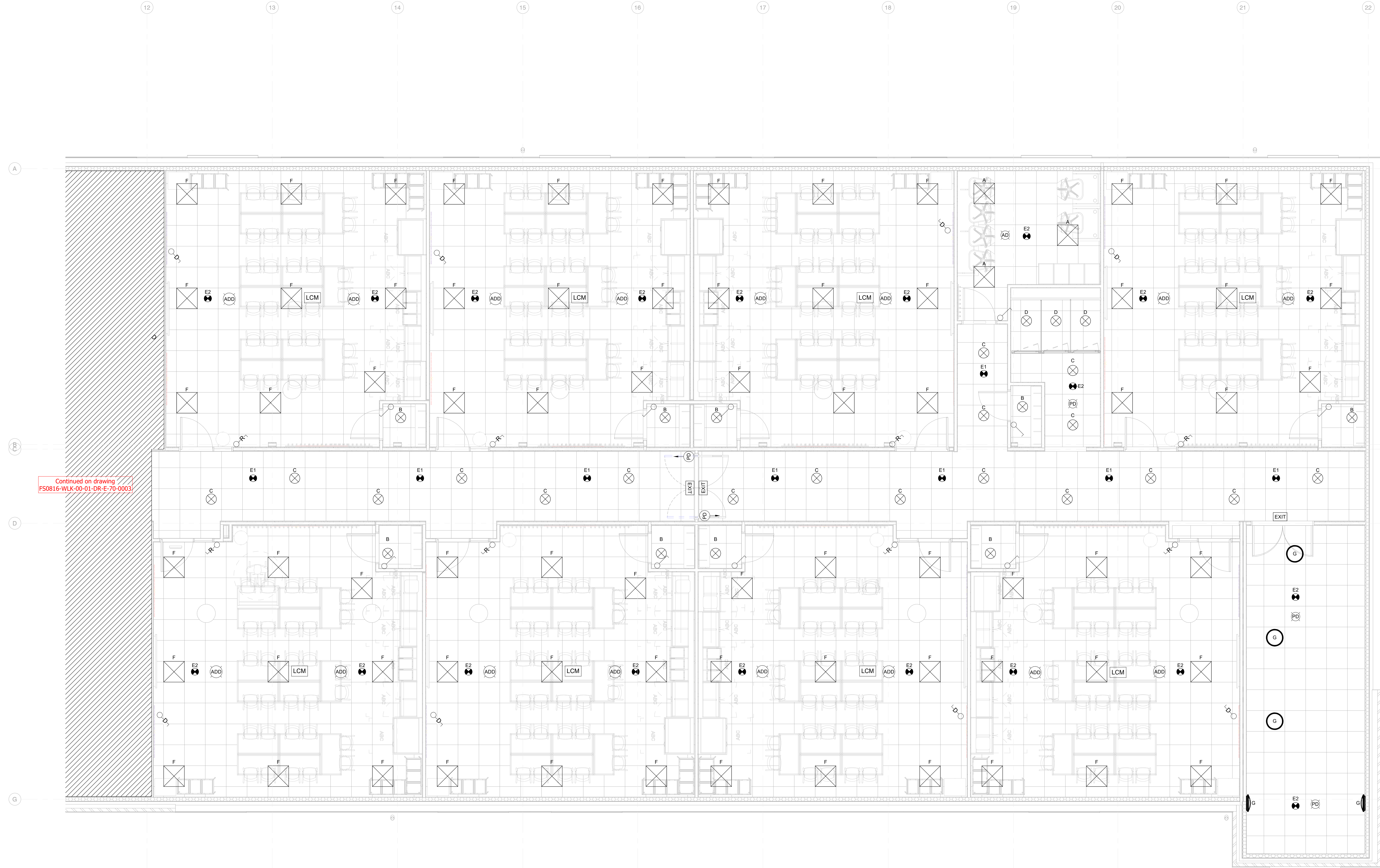
Drawn
M.B.

Checked
M.C.

Approved
A.L.

For Issue





1 01 - Lighting Layout - Sheet 2 of 2
1 : 50

Lighting Fixture Schedule		
Type Mark	Description	Manufacturer
A	600 x 600mm LED Panel c/w DALI Dimming	Apollo Lighting (or equal and approved)
A1	600 x 600mm LED Panel Fixed Output	Apollo Lighting (or equal and approved)
B	Circular Surface Mounted LED Luminaire	Apollo Lighting (or equal and approved)
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- Construction, Design and Management Regulations 2015

The Contractors attention is drawn to the abnormal risks identified below, annotated on the drawing and explained in the associated design risk registers.

Legend

You Must Not Do

Hazard or Danger

You Must Do

Caution

Abnormal Risks Identified:
1. No abnormal risks identified
- Notes

1.

If in doubt, ask the Project Lead.

2.

Do not scale this drawing.

3.

All dimensions are in millimetres unless stated otherwise.

4.

This drawing is to be read in conjunction with all other relevant drawings and specifications.

5.

All Proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.
- Lighting Notes

1.

Lighting shall be designed in accordance with CIBSE / SLL LGS Lighting for Education.

2.

Emergency Lighting shall be designed in accordance with BS 5266 Part 1.

3.

The whole of the lighting installation shall be designed and installed in accordance with the design requirements of the EFA Part B - Component Primary Design Brief (CPDB) and the Area Data Sheets.

4.

Where quantities and positions have been shown, they shall be verified and amended to suit the Electrical Contractor's design.

5.

Passive exit signage has been assumed throughout, with the exception of the Hall where illuminated exit signs are shown. This shall be confirmed by the fire officer and within the fire strategy document once available.

6.

The positions and quantities of automatic controls are indicative only of the design intent, the Electrical Contractor shall be responsible for ensuring that the quantity and locations suit the design to ensure a fully compliant installation.

7.

Local key isolation switches shall be provided for all automatic controls.

8.

The Contractor shall ensure that the proposed lighting design is suitable for the proposed ceiling type.

9.

Where a suspended ceiling grid is proposed, the Contractor shall ensure that the positions of the proposed lighting are co-ordinated with the proposed grid.

10.

The lighting layouts will need to be co-ordinated with all other services.

11.

Where daylight linking is required, the Contractor shall ensure that the luminaires are DALI dimmable to fully work with the proposed controls.

12.

The maximum lighting energy load in the Classrooms is 2.4W/m² per 100 lux.

13.

The EFA Part B - Component Primary Design Brief (CPDB) requires that dimming is provided to enable the teaching staff to reduce the lighting levels in spaces which are fitted with data projectors or interactive whiteboards.

14.

The final positions of the Emergency Exit Signs shall be determined by the fire strategy document/drawings and confirmed by the fire officer and building control.

- Lighting Legend
- LCM

Lighting Control Module
- 1 Gang 1 Way Switch
- 1 Gang 2 Way Switch
- Retractive Switch
- Dimmer Switch - Retractive
- 360 Presence Detector
- 360 Absence Detector
- 360 Absence Detector with Daylight Dimming
- Long Range Presence Detector

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P01	Issued for Full CP's	MB	03.07.2020
Rev	Amendments	Rev'd By	Date

Client:



Project
Buckton Fields Primary School

Title
First Floor
Proposed Lighting Layout
Sheet 2 of 2

Drawing Number (Project, Originator, Volume, Level, Type, Role, Class & No.)

F50816 - WLK - 00 - 01 - DR - E - 70 - 0004

Internal Project Reference

190280

Suitability | Suitable For

S4 - Suitable for Stage Approval

Scale Created Revision
As indicated @ A0 31.03.20 P02

Project Lead Drawn M.B. Checked M.C.
M.C.

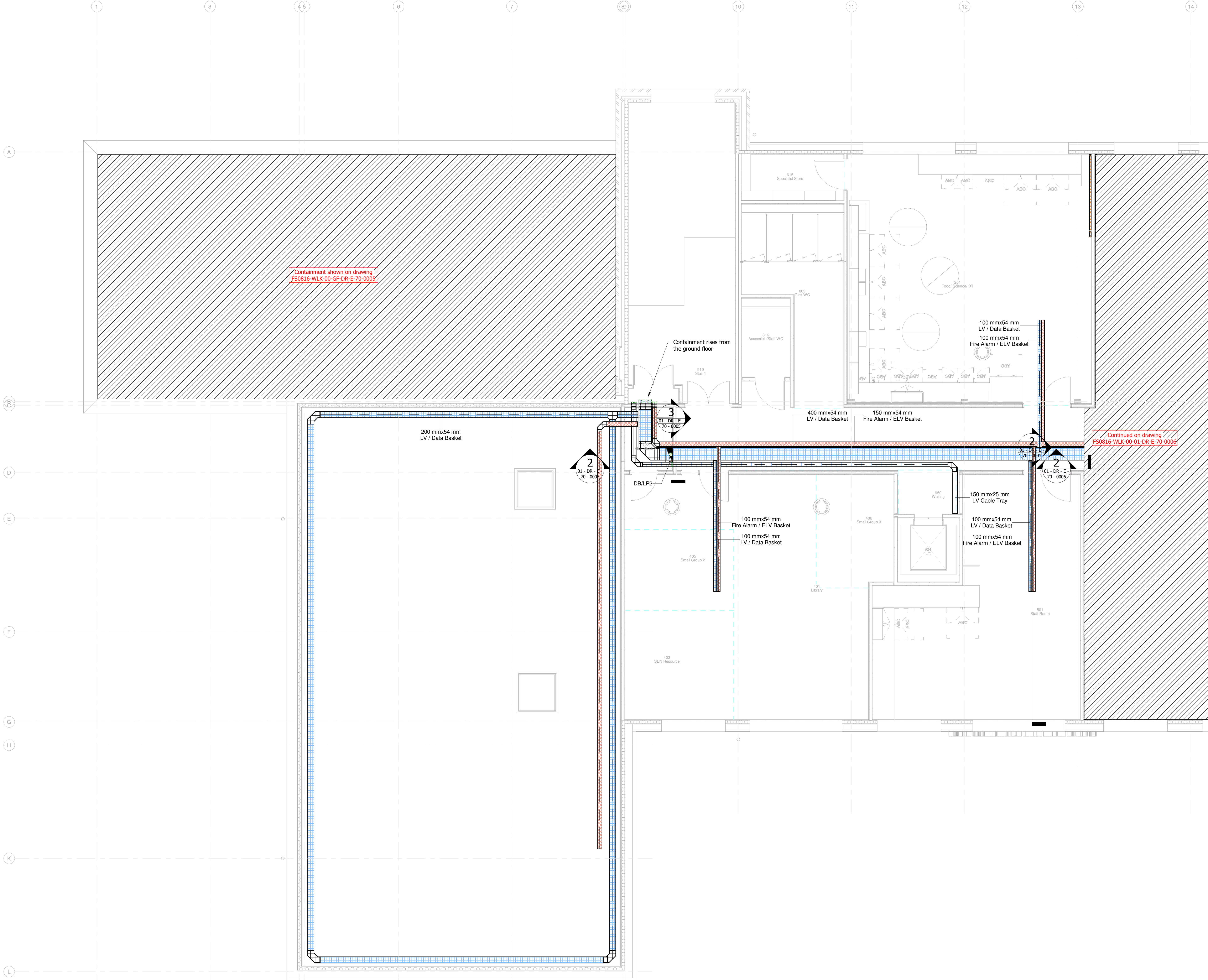
Reviewed M.C. Approved A.L. for Issue



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Brunel Way
Barnet
SN6 5WG
0142 994 077

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Construction, Design and Management Regulations 2015
The Contractors attention is drawn to the abnormal risks identified below, annotated on the drawing and explained in the associated design risk registers.

Legend

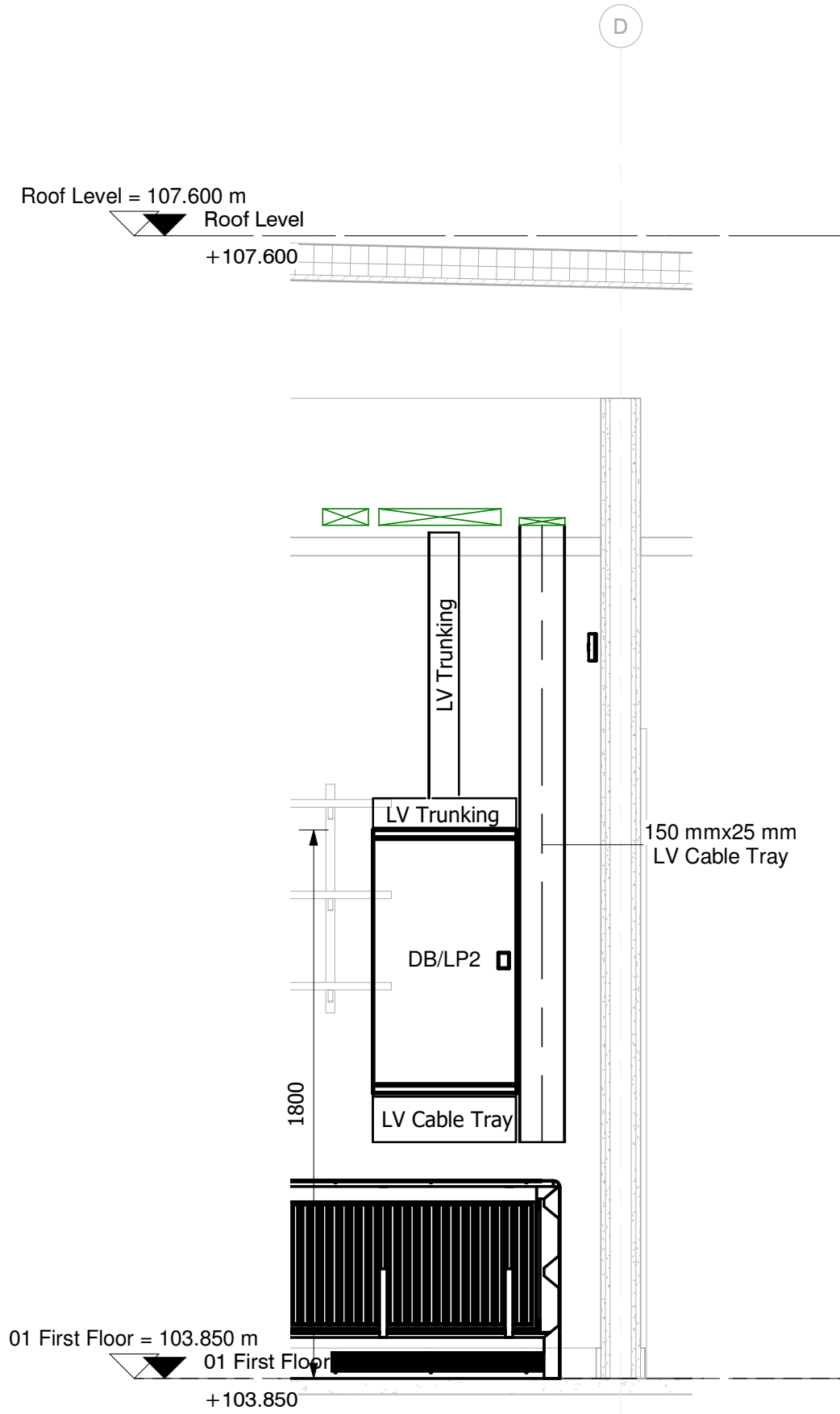
- You Must Not Do
- Hazard or Danger
- You Must Do
- Caution

Abnormal Risks Identified:
1. No Abnormal Risks Identified

- Notes**
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 - All Proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.

- Containment Notes**
- This drawing has been produced to show the intent for primary electrical services containment.
 - The sizes and quantities shown are indicative only and shall be developed by the Electrical Contractor.
 - Primary & Secondary Containment shall be designed, supplied and installed by the Electrical Contractor, to all items of equipment as required.
 - Refer to Waldeck Small Power and Data Layouts for indicative dado trunking positions.
 - Final drops to individual flush accessories, shall be via recessed steel conduit from the ceiling, within the wall to the accessory.
 - All containment connection from flush wall accessories or room dado trunking within the ceiling void, back to primary/ secondary ceiling void containment shall be connected via proprietary conduit / basket fixings, to allow a continuous cable containment throughout. ie no allow round bank, or hilt fasteners for cabling.
 - All containment shall be zinc plated cable basket, or galvanised cable tray, connected via proprietary couplers and fixings, and joining piece throughout.
 - All containment shall have 20% spare cable capacity throughout.
 - All containment shall be separated and spaces as detailed in BS EN 50174-2.

- Containment Legend**
- LV Submain Tray
 - Fire Alarm / ELV Basket
 - LV / Data Basket
 - Dado Trunking



BS EN 50742-2 - Table 8 - Minimum Separation S

Segregation Classification (Table 3)	Separation without electromagnetic barrier	Containment Applied to information technology or power supply cabling (Containment Applied to information technology or power supply cabling)		
		Open metallic containment ^a	Perforated metallic containment ^{b, c}	Solid metallic containment ^d
d	10mm	8mm	5mm	0mm
c	50mm	38mm	25mm	0mm
b	100mm	75mm	50mm	0mm
a	300mm	225mm	150mm	0mm
a	Screening performance (0 MHz to 100 MHz) equivalent to welded mesh steel basket of mesh size 50 mm x 100 mm. This screening performance is also achieved with steel tray (trunking without cover) of less than 1,0 mm wall thickness and/or more than 20 % equally distributed perforated area.			
b	Screening performance (0 MHz to 100 MHz) equivalent to steel tray (trunking without cover) of at least 1,0 mm wall thickness and no more than 20 % equally distributed perforated area. This screening performance is also achieved with screened power cables that do not meet the performance defined in footnote d.			
c	The upper surface of installed cables shall be at least 10 mm below the top of the containment.			
d	Screening performance (0 MHz to 100 MHz) equivalent to a steel conduit of 1,5 mm wall thickness. The assumption underlying the material performance of the conduit is that the product of the permeability and conductivity is greater than 38 H+S/m ² . This performance is not provided by stainless steel, aluminium and non-magnetic materials. A 1,0 mm wall thickness of the same material does not support S = 0mm.			

1 **01 - Containment - Sheet 1 of 2**
1 : 50



2 **First Floor - LHS Containment**
1 : 50

P01	Issued for Full CP's	MB	03.07.2020
Rev	Amendments	Rev'd By	Date
Client			



Project
Buckton Fields Primary School

Title
First Floor
Proposed Containment Layout
Sheet 1 of 2

Drawing Number (Project, Originator, Volume, Level, Type, Role, Class & No.)

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Internal Project Reference

190280

Suitability | Suitable for

S4 - Suitable for Stage Approval

Scale Created Revision
As indicated @ A0 31.03.20 P01

Project Lead Drawn M.B. Checked M.C.

M.C. Reviewed M.C. Approved for Issue A.L.



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Sheffield
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