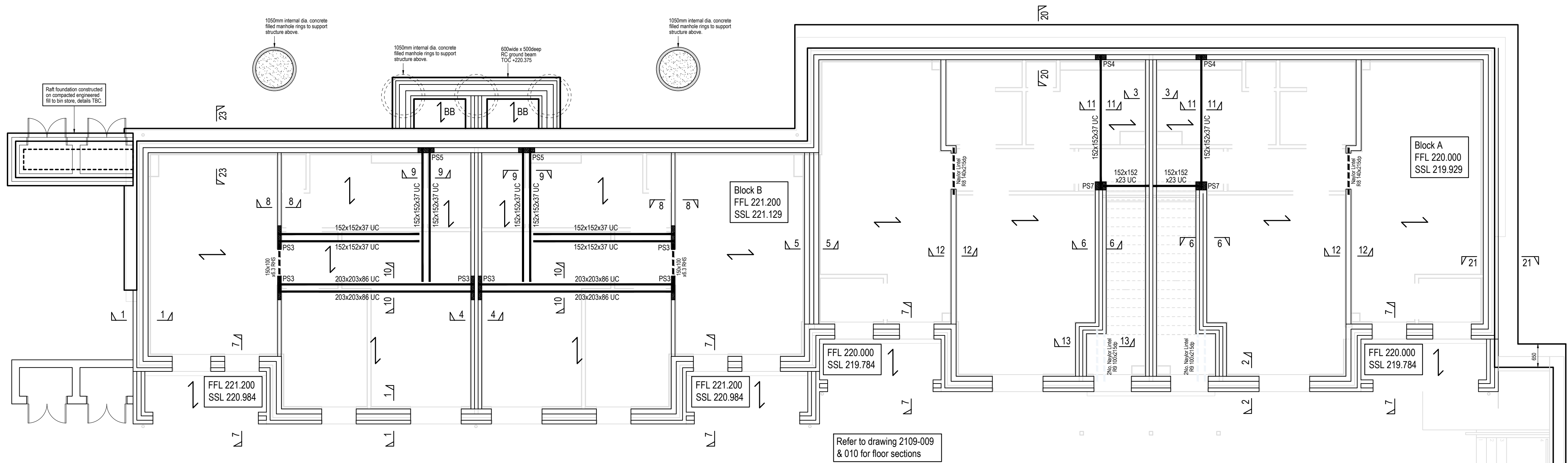
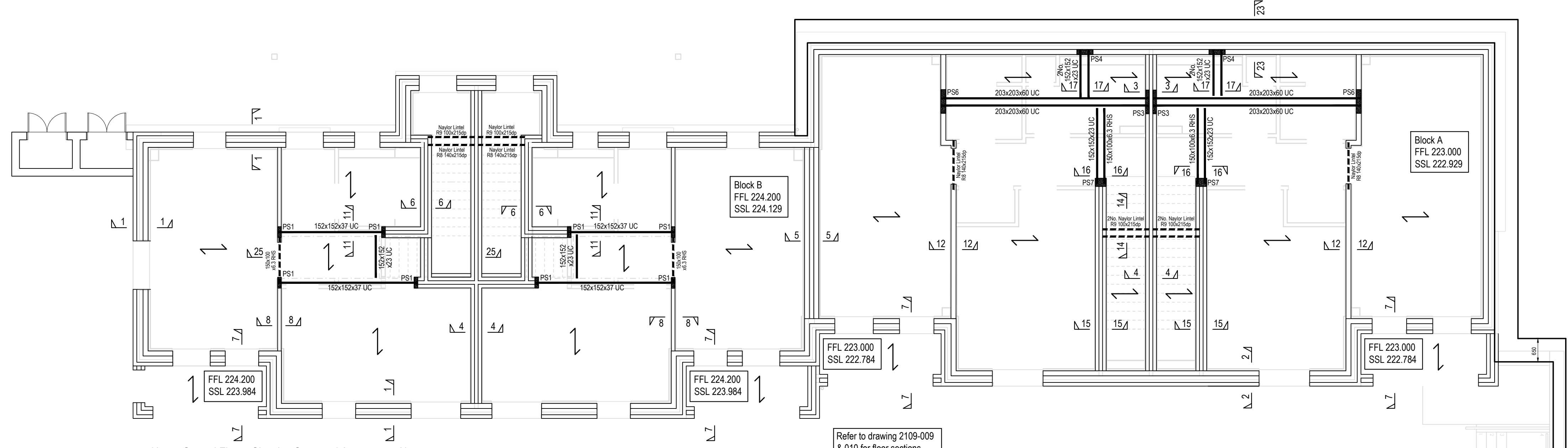




Lower Ground Floor - Showing Structural Arrangement Above
SCALE 1:75



Upper Ground Floor - Showing Structural Arrangement Above
SCALE 1:75

Lintel Notes:

1. IG lintels or similar approved by lintel specialist.
2. IG cavity lintels should be installed with a min. end bearing of 150mm, bedded on mortar and levelled along its length and across its width.
3. The masonry above the lintel should be built in accordance with BS EN 1996-2:2006.
4. Raise the inner and outer leaves simultaneously to avoid excessive eccentricity of loading on IG cavity lintels, with a maximum height difference of 225mm (masonry should be laid on a mortar bed and all perpendicular joints should be filled).
5. Allow the mortar to cure before applying floor or roof loads (Temporary propping beneath a steel lintel is practised to facilitate speed of construction).
6. The NHBC recommend a damp proof course or cavity tray should be installed over all openings in external cavity walls.
7. When installing concrete floor units or other heavy components above a lintel, care should be taken to avoid shock loading and floor units should not be dragged into position. Masonry immediately above the lintel should be allowed to cure.
8. Point loads should not be applied directly onto IG lintel flanges. IG Lintels should have a minimum of 150mm masonry between the flange and the application level of any form of loading.
9. The external IG lintel flange must project beyond the window/door frame and it is recommended that a flexible sealing compound is used between the underside of the lintel flange and the frame.
10. Do not cut lintels to length or modify them in any way without consulting the manufacturer.

Pre-Cast Plank, Typical Floor Loadings:

In addition to their self weight, design for the following loadings:-

Dead Load
Finishes (screed/insulation): 1.80 kN/m²
Ceiling & Services 0.15 kN/m²

Imposed Load
General partition allowance: 0.50 kN/m²

Domestic imposed floor loading: 1.50 kN/m²
Stairs 3.00 kN/m²

← Indicates span of 150mm Dp. Slab
Bison Hollowcore floor pre-cast units
Min. 300kg/m² (or similar approved)

Manufacturer to refer to architect's details for locations of partitions above.
Pre-Cast designer to check the masonry layout on the Architects construction drawings for final dimensions.

Padstones:

PS1 - 330x100x215dp Grade C20/25.
PS2 - 440x100x215dp Grade C20/25.
PS3 - 660x100x215dp Grade C20/25.
PS4 - 330x140x215dp Grade C20/25.
PS5 - 440x140x215dp Grade C20/25.
PS6 - 660x140x215dp Grade C20/25.
PS7 - 300x215x215dp Grade C20/25.

Note that all the padstones to be grade C20 mass concrete.

Beam & Block Suspended Floor Loadings

In addition to their self weight, design for the following loadings:-

75mm Sand cement/ concrete screed: 1.80 kN/m²

Insulation: 0.10 kN/m²

General partition allowance: 0.50 kN/m²

Domestic imposed floor loading: 1.50 kN/m²

Stairs: 3.00 kN/m²

← BB Indicates span of
beam & block floor

Manufacturer to refer to architect's details for locations of partitions above

Notes :-

General:

1. Do not scale from this drawing, use figured dimensions only.
2. All dimensions are in millimetres, all levels are in metres.
3. This drawing to be read in conjunction with the latest Architects, Engineers & specialists drawings & specifications.

Masonry:

1. Refer to Architects drawings for all masonry wall setting out.
2. For flats with 3 storey's blockwork to be minimum 10N/mm² to first floor level, 7 N/mm² above.
5. For flats with 2 storey's blockwork to be minimum 7N/mm².
6. Type (ii) mortar to BS:5628 Part 1. Above DPC, mortar should revert to type (iii) mortar to BS:5628 Part 1.

Steelwork:

1. All steelwork below ground to have 2 coats of RIW paint.
2. Steelwork fabricator to design & detail all connections, loads to be provided by the engineer.
3. Prior to any fabrication:
 - a) All calculations & details to be approved by the engineer.
 - b) Fabricator to produce a full set of detailed drawings for approval.
4. All connections to be capable of resisting the tying force required by BS: 5950.
5. Structural steelwork to be in accordance with the latest edition of the 'National Structural Steelwork specification for building construction' by BS:CA.
6. Coatings to Structural Steelwork:
 - a) Internal steelwork class C2 (to BS EN ISO 12944-2), require the following corrosion protection.
 - b) Surface preparation (BS EN ISO 8501-1) - blast clean to sa 2½.
 - c) Post fabrication primer - 80 microns (DFT) high build epoxy zinc phosphate primer.External steelwork class C3 (to BS EN ISO 12944-2), require the following corrosion protection.
 - a) Surface preparation (BS EN ISO 8501-1) - blast clean to sa 2½.
 - b) Hot dip galvanize to BS EN ISO 1461 - 85 microns.
 - c) or
 - d) Shop paint, high build epoxy zinc phosphate primer to 80 microns (DFT), plus high build recoatable epoxy M.I.O. to 120 micron.
7. All damaged steel to be made good to engineers approval.
8. For fire protection of steelwork supporting floors, refer to Architectural specification & details.
9. Steelwork fabricator to be solely responsible for temporary work & the erection of structural steelwork.
10. Unless otherwise noted:
 - a) All hot rolled steel to be grade S355.
 - b) All welds to be 6mm continuous fillet welds.
 - c) All bolts for hot rolled sections to be grade 8.8.
 - d) Holding down bolts to be grade 8.8.
11. If any splices are to be used, their location must be approved by the engineer.

Pre-cast Floor Notes:

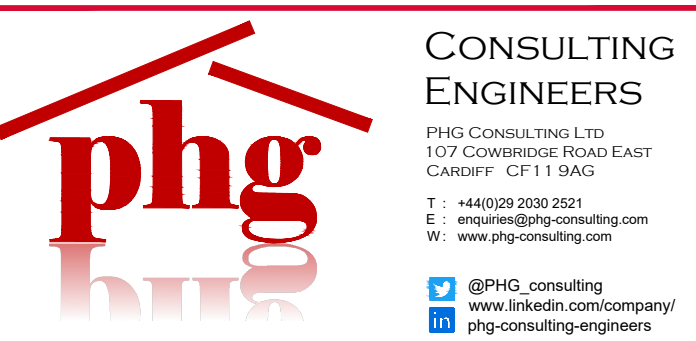
1. Design based on self weight of 3.00 kN/m², if final design by manufacturer requires a greater self weight then the structural engineer is to be informed.
2. Design warranty to remain with manufacturer. If design dictates different plank depth to that shown notify PHG consulting.
3. Plank camber to be limited to span/250 or 40mm whichever is the smallest.
4. Manufacturer to check all span dimensions with latest Architect's drawings.
5. All manufacturer construction drawings and details to be sent to PHG consulting for comment, manufacturer to allow 10 working days to receive responses.
6. Vibration and dynamic response to be compliant with recommendations set out in BS:6472.
7. Grouting: Joints between units should be grouted with a 30 N/mm² concrete using a 6mm nominal aggregate size.
8. Minimum bearing for pre-cast units as follows:-

Masonry	-	100mm.
Steelwork/Concrete	-	75mm.

C	20/08/25	Concrete lintels added to block B UGF stair area & steel beam supported added to block A LGF for support to top of stairs following comments.	WW	WW
B	14/07/25	Steelwork arrangement updated to architects layout. Construction issue.	WW	WW
A	31/01/24	Retaining wall design to block A/B updated and step/in store retaining wall added. Steel support arrangement revised to void area following client comments.	WW	WW

REV.	DATE.	DETAILS.	AMENDMENTS	BY:	CHK.
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CLIENT:



PROJECT:

Springfield Rise
Treharris

DRAWING TITLE:
**Block A & B Flats
Lower Ground & Upper Ground
Floor GA Plans**

DRAWN:	CHK:	STATUS:	SCALE AT A1:
WW	PHG	CONSTRUCTION	As Shown
DATE:	JOB NO.	DRG. NO.	REV.
Dec '24	2109	007	C

Steelwork arrangement and setting out to be agreed and discussed with the contractor and architect. All steelwork to be confirmed & measured on site by the fabricator prior to any steelwork fabrication.