

BOLT STRUCTURES

CONSULTING ENGINEERS

CLIENT: LONDON DEVELOPMENTS
(GLOBAL) LTD

ADDRESS: 1-5 CENTRAL AVENUE,
SITTINGBOURNE, ME10 4AU

STRUCTURAL FEASIBILITY REPORT

DOCUMENT REF: 1572-BS-XX-RP-S-0001-C2

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BOLT STRUCTURES LIMITED REGISTERED AS A COMPANY IN WALES AND ENGLAND. NUMBER 13140413

Project Preface

Client name: London Developments (Global) Ltd

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Date of Inspection: 19.11.24

Job reference: BS1572

Issue Date 01.12.24

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1.0 INTRODUCTION AND SCOPE

- London Developments (Global) Ltd appointed Bolt Structures to prepare a structural feasibility report to add suitable number of residential floors built using timber or light weight steel above existing commercial building.
- The visual inspection was carried out by Rameez Khan (Bolt Engineer) on 19th November 2024, during which the weather was overcast.
- The existing property comprised a ground floor commercial unit with 3 floors above. Existing building consist of a RC frame building with RC core walls and precast concrete floor supported on RC columns and RC beams. External façade of the structure comprised of precast concrete panel.
- The purpose of this report is to assess the suitability of existing structural elements (mainly columns and foundations) to take load from addition of new floor above existing roof level.

Proposed works are to be carried in three phases:

1. Phase 1- create 12 units in existing first and second floor level
 2. Phase 2- extend lift walls to new third floor level. Extend height of existing perimeter masonry wall in car park. Addition of new floor constructed on top of existing roof level.
 3. Construction of new independent residential block to house 6 units in car park space.
- Conclusion/recommendation are based on visual inspection an available data in the appendices i.e., existing and proposed architect drawings.

2.0 ASSUMPTIONS AND EXCLUSION

- The report is for the exclusive use of our client and his/her agents. Although we have no objection to it being shown to others, we do not accept any responsibility to third parties.
- This report cannot be relied upon to confirm the presence or otherwise of asbestos or asbestos containing materials.
- We have assumed the building and site is not subject to any unusual or onerous restrictions, or obligations or covenants, which may affect the reasonable enjoyment of the property.
- We have assumed that all planning permission will be required for this vertical and side extension and such consents have not been verified by us.
- No cost estimates have been given in the report. Cost estimates to be obtained from a suitably qualified quantity surveyor or contractor by the client.
- No intrusive investigations have been made to drains and existing structural elements.
- It has been assumed that there are no major services/tunnels running below the site area.
- Existing foundation depths and sizes were not checked due to the significant disruption to existing occupants. Existing foundations have been assumed as concrete pad footings. It has also been assumed that a min. reinforcement is present in the pad's foundations.
- At the time of inspection, the property (above first floor level) was unoccupied, unfurnished, and provided with power, water, gas, and mains drainage.

- From British geological survey database, ground comprises of Chalk strata. This was based on the British Geological data information in Figure 1.

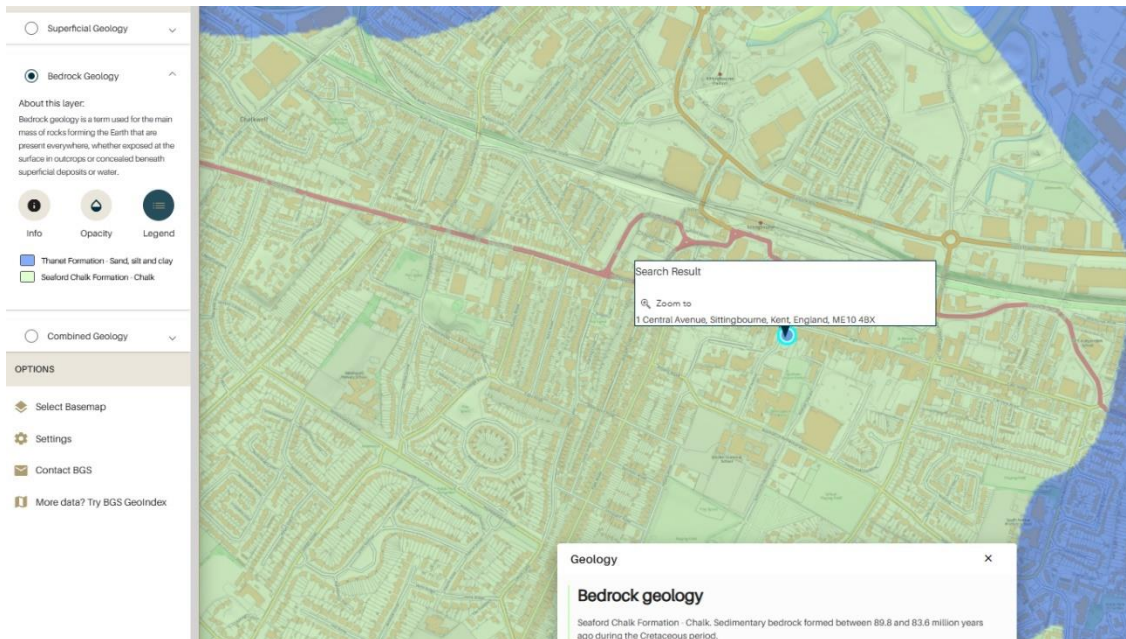


Figure 1: Extract of British Geological survey (BGS) records

- The existing foundations for this feasibility study have been checked based on a minimum allowable ground bearing capacity of $200kN/m^2$. The actual bearing capacity of the ground is to be confirmed on site by carrying out a geo-technical investigation before commencing any construction works. The findings are to be reported back to Bolt Structures for comments.
- No ground gas/contamination issues are assumed to be present below ground.
- Existing staircase access can be demolished or modified for new vertical extension if required.
- Existing RC walls act as shear wall to provide lateral stability to RC frame structure.
- Existing floor slab assumed to be 250mm precast floor.
- It was observed that asbestos was spotted in the ceilings. This is to be confirmed by specialist.
- There are RC concrete columns at basement level which supports steel column above ground floor level. This is to be checked and confirmed prior to construction works commencement. Existing concrete column supports RC beams at ground level. These existing ground beams support load bearing perimeter walls.
- Concrete grade is assumed to be C28/35 (to be confirmed at detailed design stage by testing).
- Steel reinforcement is assumed as plain rebar of grade $f_y = 425N/mm^2$.
- Only accessible area of the building was inspected to confirm the existing structural layout as was practical and relevant to the structural feasibility.
- External inspection was only carried out at the rear, side and front from ground level.
- We assume that alterations and strengthening works can be carried out inside the existing building.
- This report is a high-level review of the structural feasibility of new vertical and side extension. It should not be interpreted to be a structural survey or detailed design report.

- Record information- there is no information available such as existing structural drawings and survey information in local building control.

3.0 LIMITATION & EXCLUSIONS

- We have reported on obvious health and safety hazards only to the extent that they were apparent from elements of the property considered as part of the inspection.
- We have not commented or advised on any matter the significance of which in relation to the property was not apparent at the time of inspection from the inspection itself.
- We have undertaken structural calculations of proposed structure scheme.
- We have inspected as much of the internal and external surface area of the building as was practical and relevant to the survey but have not inspect those areas which are covered, unexposed or not reasonably accessible from within the site or adjacent public areas.
- We will have not moved any obstruction to inspection including, but not limited to, furniture, fixtures, fittings, or equipment. We carefully and thoroughly inspect the property using our best endeavours to see as much of it as is physically accessible. Where this is not possible an explanation will be provided.
- If we are concerned about parts of the property that the inspection cannot cover, the report will tell you about any further investigations that are needed.
- The report that we provide is not a warranty.

Services

We have not conducted any specialist tests of gas, electric, water or drainage installations. The report is based upon a visual inspection only. However, we will advise upon the need for any specialist tests if deemed necessary within the body of the report.

Environmental Issues

Particular noise and disturbance affecting the property will only be noted if it was significant at the time of the inspection and specific investigations will not be undertaken. Our report will not consider the energy performance of the property.

Hazardous Materials

This report cannot be relied upon to confirm the presence or otherwise of asbestos or asbestos containing materials. If the client is unaware of the presence of such materials, a suitably qualified specialist should carry out a specific asbestos survey.

Unless otherwise expressly stated in the report, we have assumed that no deleterious or hazardous materials or techniques have been used in the construction of the property. However, we have advised in the body of the report if, in our view, there is a likelihood that a deleterious material has been used in the construction and specific enquiries should then be made or tests carried out by a specialist.

Consents, Approvals and Searches

We will assume the building and site is not subject to any unusual or onerous restrictions, or obligations or covenants, which may affect the reasonable enjoyment of the property.

We will assume the property is unaffected by any matters which would be revealed by a Local Search and replies to the usual enquiries, or by a Statutory Notice, and that neither the property, nor its condition, its use or unintended use is or will be unlawful.

We will assume all planning, building regulations and other consents required in relation to the property have been obtained and such consents have not been verified by us.

4.0 METHODOLOGY

The following methodology was followed to carry out the assessment:

- Existing Structure
- Identify general arrangement (existing and proposed)
- Review the current loading on the internal column and existing foundations
- Proposed New Vertical Extension
- Proposed structural layout for new third floor

- 4.1. The existing building (photo set 1) comprises of three storey, concrete frame structure. Ground floor houses a retail unit. At the time of inspection, ground floor retail unit was occupied by Natwest bank.



Photo set 1- Front elevation view of the property



Photo set 2- Aerial view of the property

4.2 Side elevation view of the property



Photo set 3- Side elevation view of the property

4.3 Rear elevation view of the property



Photo set 4- Rear elevation view of the property

4.4 Internal view of the property- first and second floor level



Photo set 5- Internal views of the property

4.5 Existing roof view



Photo set 6- Existing roof view of the property

4.6 Existing General arrangement floor plans

- 4.6.1 Existing columns, beams and wall's location indicated on the floor plan. This is a structure was visible at the time of visual inspection. Final location of beam, column and walls and sizes to be confirmed in detailed design stage (RIBA 3-4).

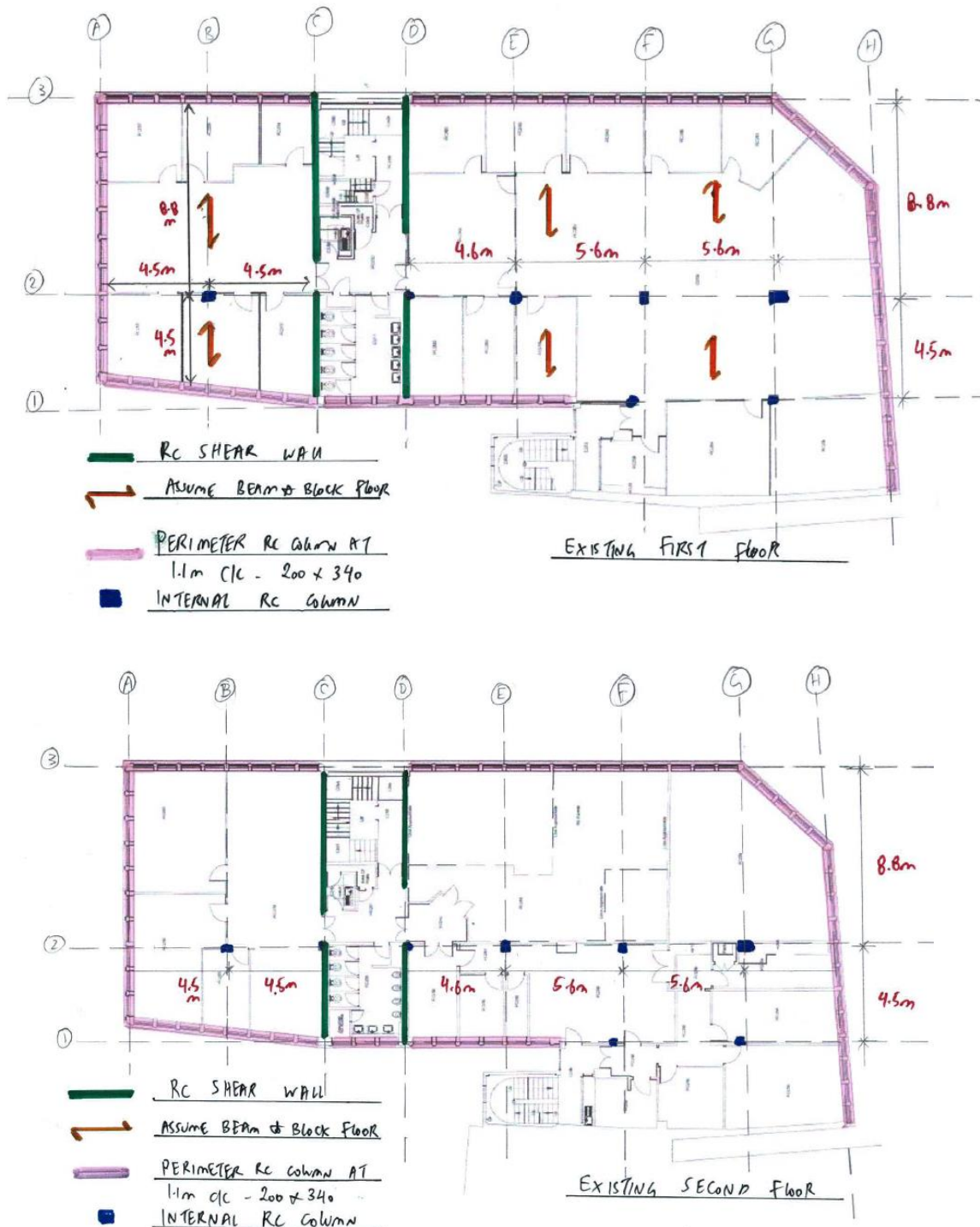


Figure 2: Existing floor plans

4.6.2 Existing floor loading plans

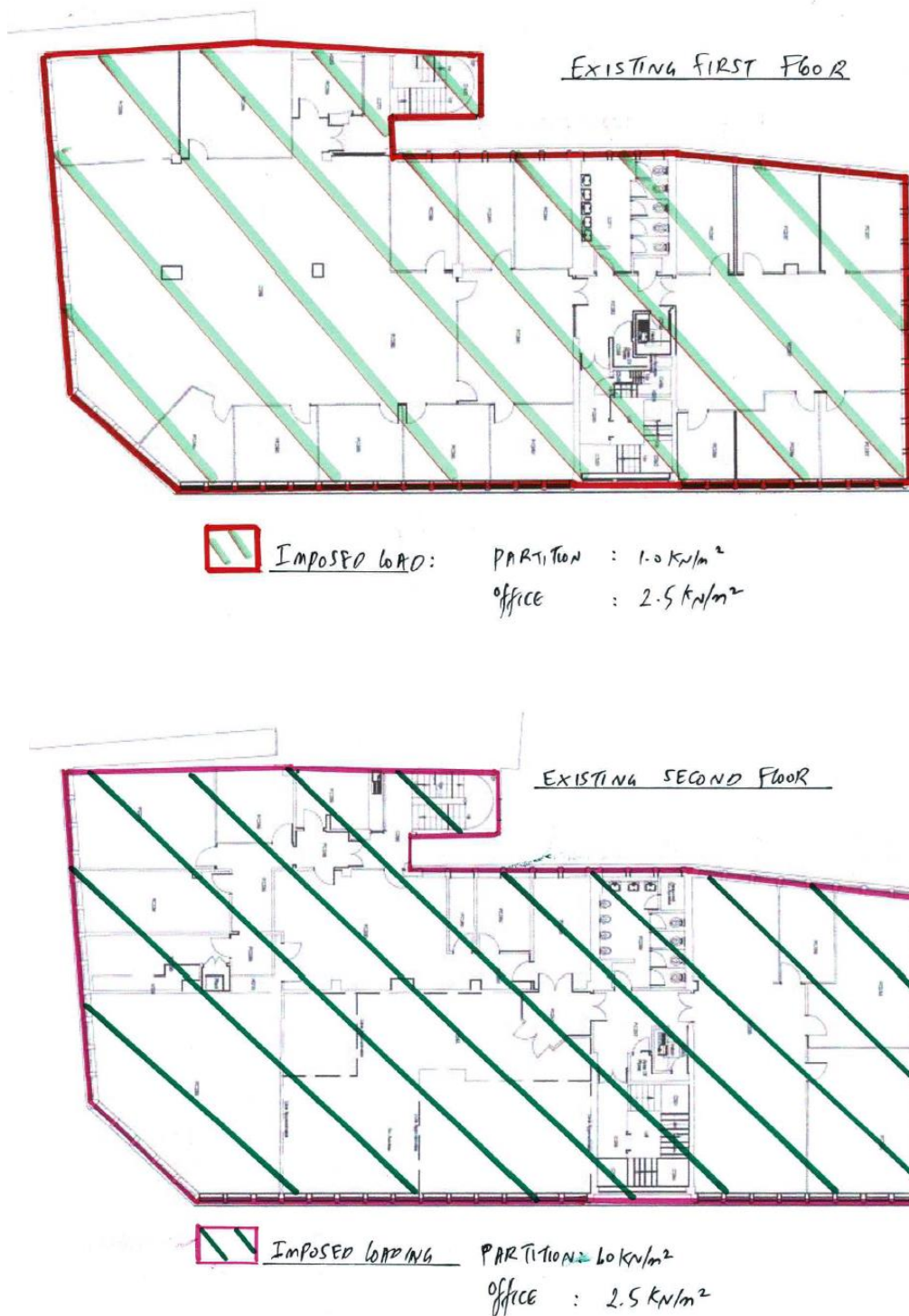


Figure 3: Existing floor loading plans

4.7 Proposed general arrangement floor plans

- 4.7.1 Proposed third floor structural shown indicatively on existing second floor plan. Structural member indicated on the mark-up drawing are located at third floor level above existing roof. New stub steel column to sit directly on top of existing RC column. New steel grillage frame system is proposed for new third floor. Light weight metsec system is be used to form new flats. All new structural member sizes to be confirm in design stage (RIBA 3-4). New steel beams layout to be hidden within the third floor space. Final steel and walls coordination to be carried out in design stage (RIBA 3-4). For propose new third floor plan, please refer to architect layout drawings.

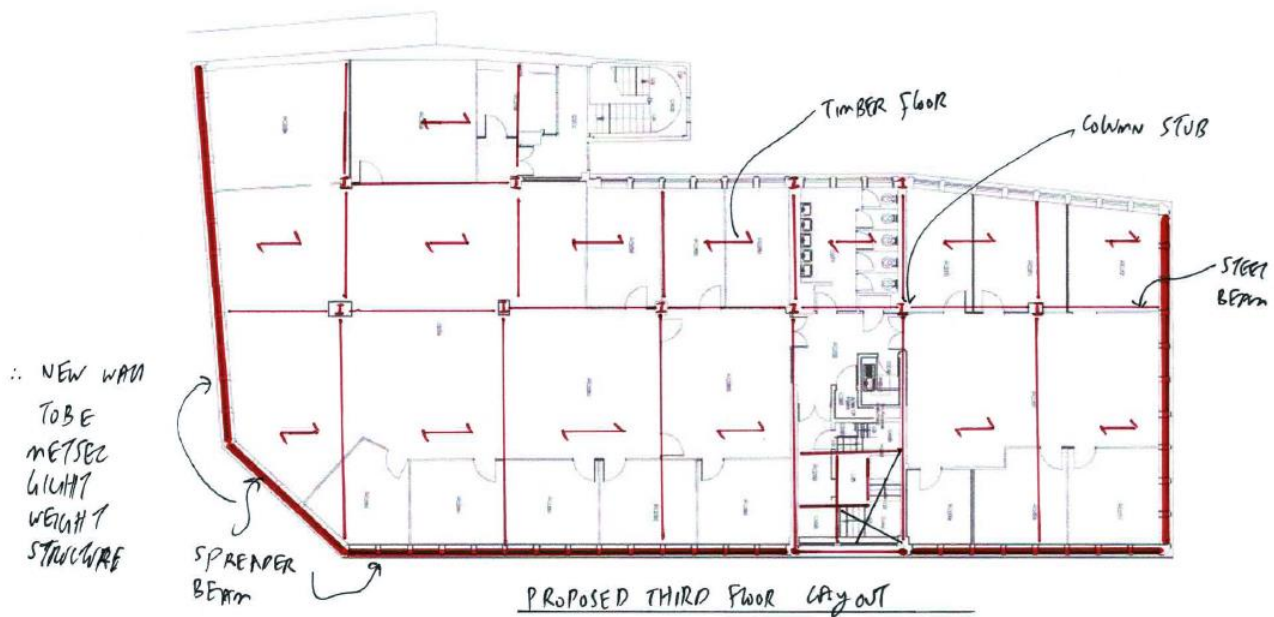
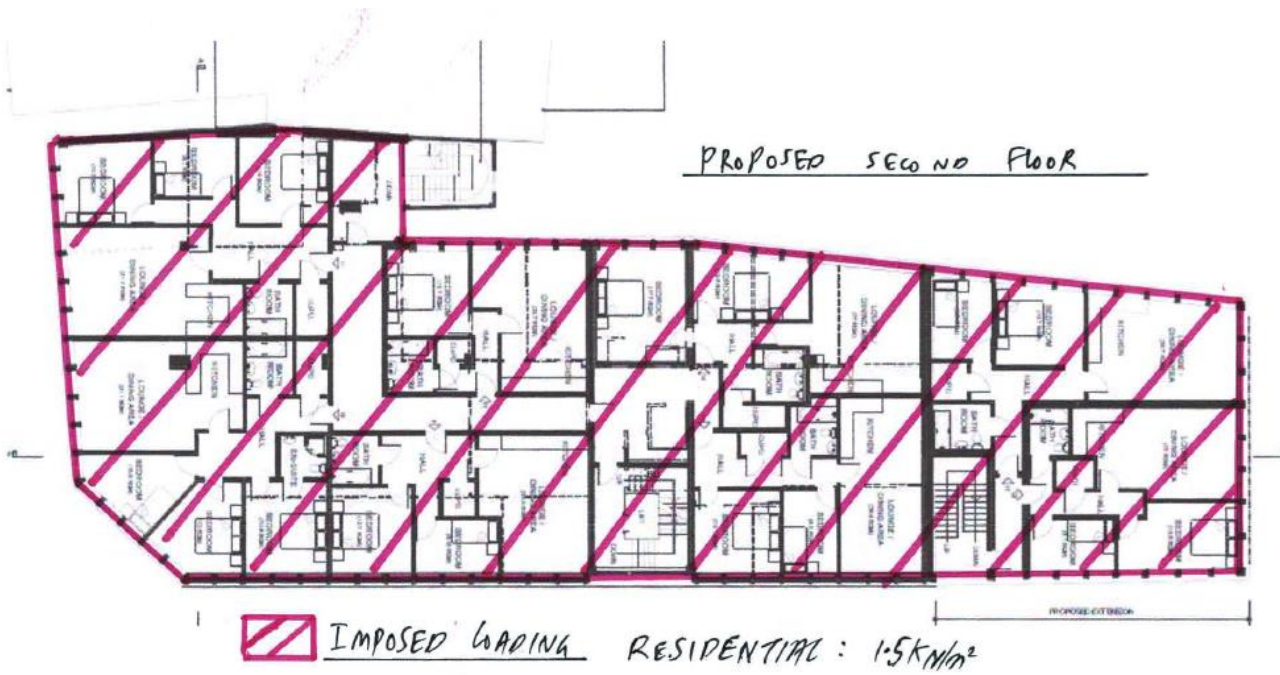
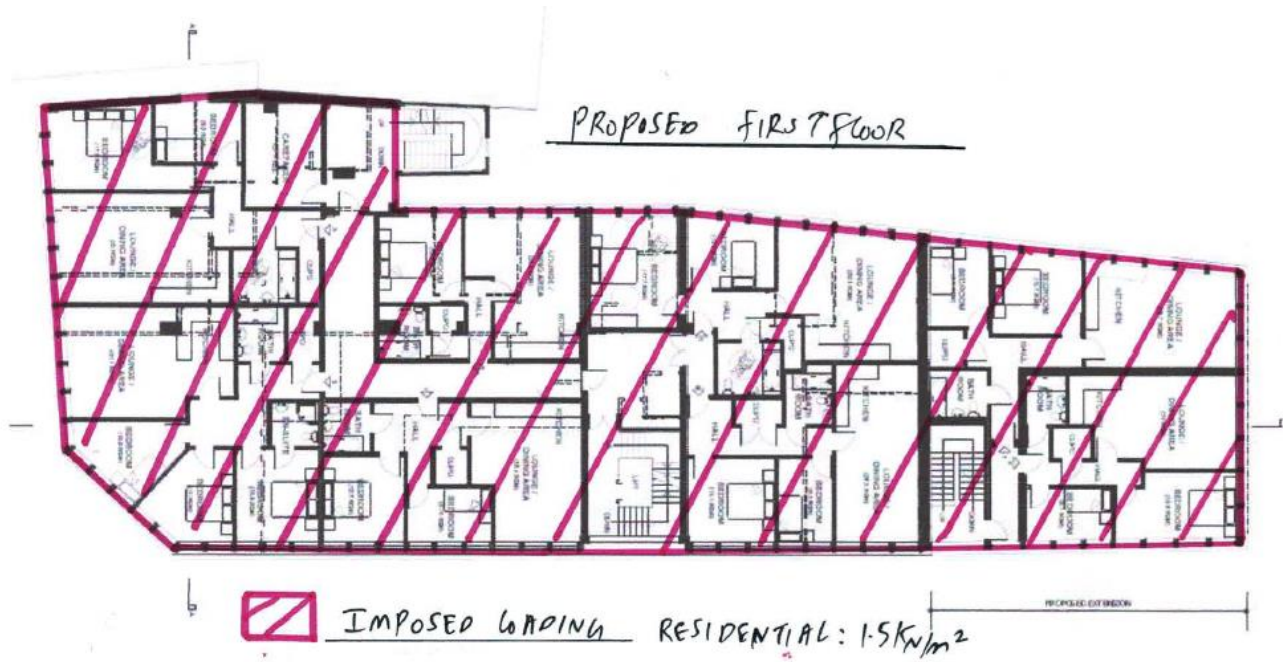


Figure 4: Proposed third floor plan

4.7.1 Proposed floor loading plans



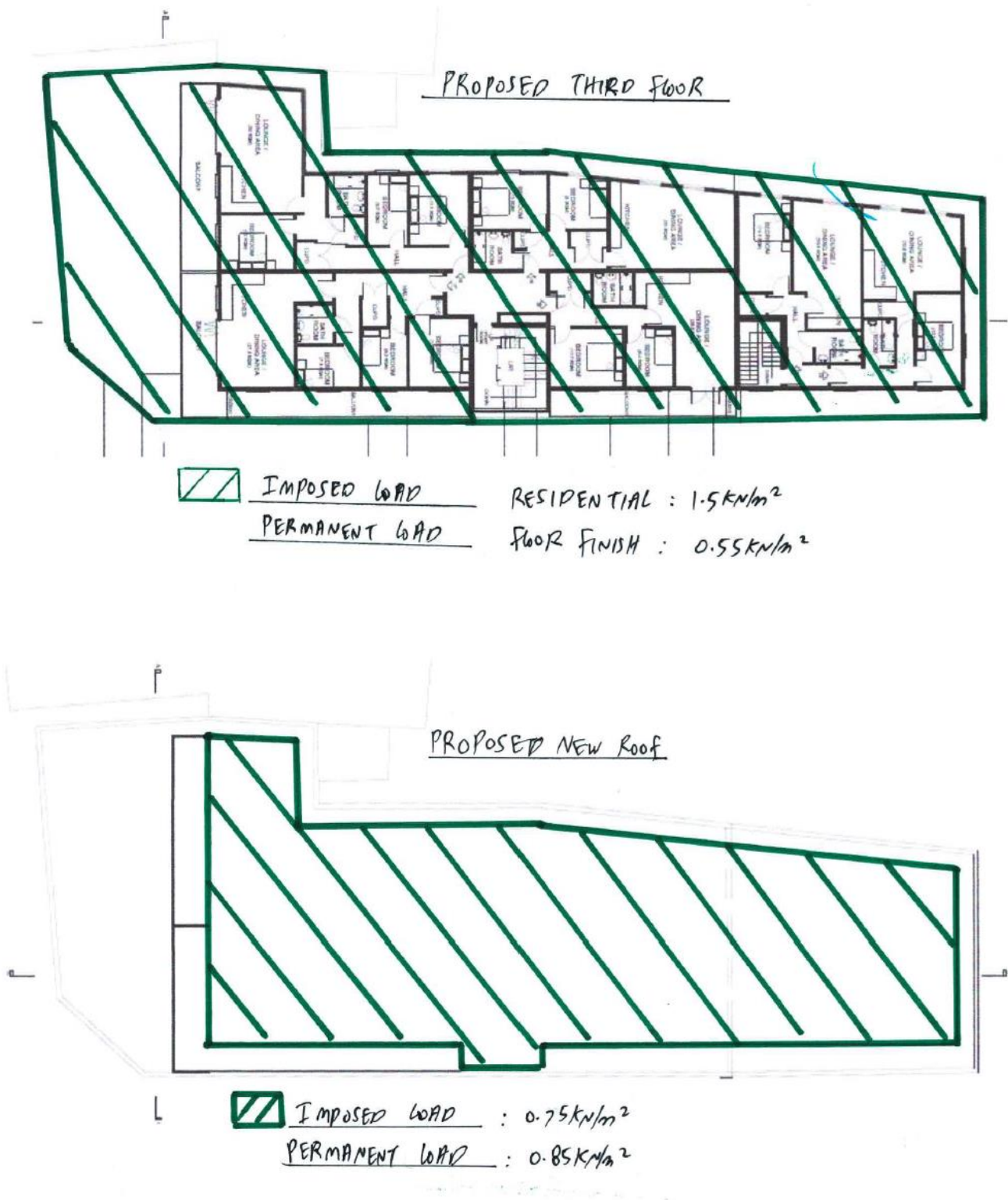


Figure 5: Proposed floor loading plans

4.8 Load takedown

Existing column load takedown analysis is carried out to check current loading at foundation level.

Columns at grids **2B** and **2F** are checked for existing and propose loading condition. For calculations, refer to section **6.0 Appendix**.

Assumptions are made to do the load takedown analysis:

- Floor to floor height vary- refer to calculation sheet
- Grid spacing measured and closest approximate dimensions are used to run load takedown of existing column- This is to be confirmed in RIBA Stage 3-4 (Detailed design)
- Only existing load comparison is carried out against proposed imposed and permanent loading

1. Column Grid: 2B- IMPOSED LOADING

Proposed load: 317.23 kN

Existing load: 359.18kN

Based on above loading assessment, there is decrease in loading applied to existing foundation

Load % difference decrease: **13.22%**

Therefore, loading applied on existing footing is satisfactory.

2. Column Grid: 2F- IMPOSED LOADING

Proposed load: 363.4kN

Existing load: 446.9 4kN

Based on above loading assessment, there is decrease in loading applied to existing foundation

Load % difference decrease: **22.98%**

Therefore, loading applied on existing footing is satisfactory.

5.0 CONCLUSION AND RECOMMENDATIONS

- 7.1 We have carried out a feasibility of the proposed vertical rear extension with the assumption that works will be carried will be involved:
- We recommend that trial pits to be carried out to confirm existing foundation type and size.
 - We recommend new vertical extension floor to be formed of light weight metsec frame structure supported on new steel grillage system.
- 7.2 In our opinion, the existing foundations have adequate capacity to withstand vertical loads from conversion as well as third floor and new roof.
- 7.3 New side extension to be designed independent of existing structure. New side extension elevation to comply with planning drawings. However, internal floor structure can be light weight structure to accommodate residential loads. We envisage traditional pad/strip footing to support new side extension loads.
- 7.4 The existing foundations are suspected to be working closer to their limit, with an assumed allowable ground bearing pressure of 200kN/m^2 . Therefore, it is strongly advised to get a geo-technical investigation carried out to confirm the actual allowable ground bearing capacity before the detailed design stage. We don't envisage any issues with the existing foundations as the proposed loads applied are less than anticipated. There are quite a few 5-7 storey commercial buildings close to the existing structure and supported on existing ground comprised of Chalk strata (refer to figure 1 showing BGS map).
- 7.5 The load from the new structure to be transferred to the existing structure only through the column locations highlighted in structural mark-up plans refer to 4.7.1. This is to avoid adding any load onto the existing roof floor.
- 7.6 The current disproportionate class of the existing building is 2B. Existing structure class will not change.
- 7.7 The construction of the additional storey can be done in the traditional way by safely transporting structural members to the site and assembling them on roof. An alternative and less disruptive approach would be a modular construction option.
- 7.8 Proposed structural works are to be carried out in three phases:
1. Phase 1- create 12 units in existing first and second floor level
 2. Phase 2- extend lift walls to new third floor level. Extend height of existing perimeter masonry wall in car park. Addition of new floor constructed on top of existing roof level.
 3. Construction of new independent residential block to house 6 units in car park space.
- We envisaged that warranty for each phase to be acquired separately.

6.0 APPENDIX A – ARCHITECT DRAWINGS & CALCULATIONS



BOLT STRUCTURES
Consulting Engineers

Project

1-5 CENTRAL AVENUE,
SITTINGBOURNE, ME10 4AU

job no. BS1572

drg no.

title

Existing Loading assessment

scale

date

drawn

checked

rev

date

Column Grid: 2B

Loading area: 29.93m²

Imposed Load takedown:

1. Roof: (access) : 1.5kN/m² x 29.93m² : 44.9kN
2. Existing Second floor:
Office: 2.5kN/m² x 29.93m² : 74.83kN
Partition: 1.0kN/m² x 29.93m² : 29.93kN
3. Existing first floor:
Office: 2.5kN/m² x 29.93m² : 74.83kN
Partition: 1.0kN/m² x 29.93m² : 29.93kN
4. Existing Ground floor
Office: 2.5kN/m² x 29.93m² : 74.83kN
Partition: 1.0kN/m² x 29.93m² : 29.93kN

Total Imposed load acting on the foundation : **359.18kN**

Column Grid: 2F

Loading area: 37.24m²

Imposed Load takedown:

1. Roof: (access) : 1.5kN/m² x 37.24m² : 55.86kN
2. Existing Second floor:
Office: 2.5kN/m² x 37.24m² : 93.10kN
Partition: 1.0kN/m² x 37.24m² : 37.24kN
3. Existing first floor:
Office: 2.5kN/m² x 37.24m² : 93.10kN
Partition: 1.0kN/m² x 37.24m² : 37.24kN
4. Existing Ground floor
Office: 2.5kN/m² x 37.24m² : 93.10kN
Partition: 1.0kN/m² x 37.24m² : 37.24kN

Total Imposed load acting on the foundation : **446.9kN**



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scale

date

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checked

rev

date

Column Grid: 2B

Loading area: 29.93m²

Permanent & Imposed Load takedown:

1. Proposed new Roof: (access) :
Imposed: 0.75kN/m² x 29.93m²: 30.68kN
Permanent (light weight metsec): 0.7kN/m² x 29.93m²: 30.63kN
2. Proposed Third floor:
Residential (imposed): 1.5kN/m² x 29.93m²: 44.9kN
Residential (permanent) timber floor: 0.55kN/m² x 29.93m²: 16.46kN
3. Proposed Second floor:
Office: 1.5kN/m² x 29.93m²: 44.9kN
4. Proposed first floor:
Office: 1.5kN/m² x 29.93m²: 44.9kN
5. Existig Ground floor
Office: 2.5kN/m² x 29.93m²: 74.83kN
Partition: 1.0kN/m² x 29.93m²: 29.93kN

Total proposed Load acting on the foundation : **317.23kN**

Column Grid: 2F

Loading area: 37.24m²

Permanent & Imposed Load takedown:

6. Proposed new Roof: (access) :
Imposed: 0.75kN/m² x 37.24m²: 27.93kN
Permanent (light weight metsec): 0.7kN/m² x 37.24m²: 26.07kN
7. Proposed Third floor:
Residential (imposed): 1.5kN/m² x 37.24m²: 55.86kN
Residential (permanent) timber floor: 0.55kN/m² x 37.24m²: 20.48kN
8. Proposed Second floor:
Office: 1.5kN/m² x 37.24m²: 51.36kN
9. Proposed first floor:
Office: 1.5kN/m² x 37.24m²: 51.36kN
10. Existig Ground floor
Office: 2.5kN/m² x 37.24m²: 93.10kN
Partition: 1.0kN/m² x 37.24m²: 37.24kN

Total proposed load acting on the foundation : **363.40kN**



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Load % difference decrease: 22.98%

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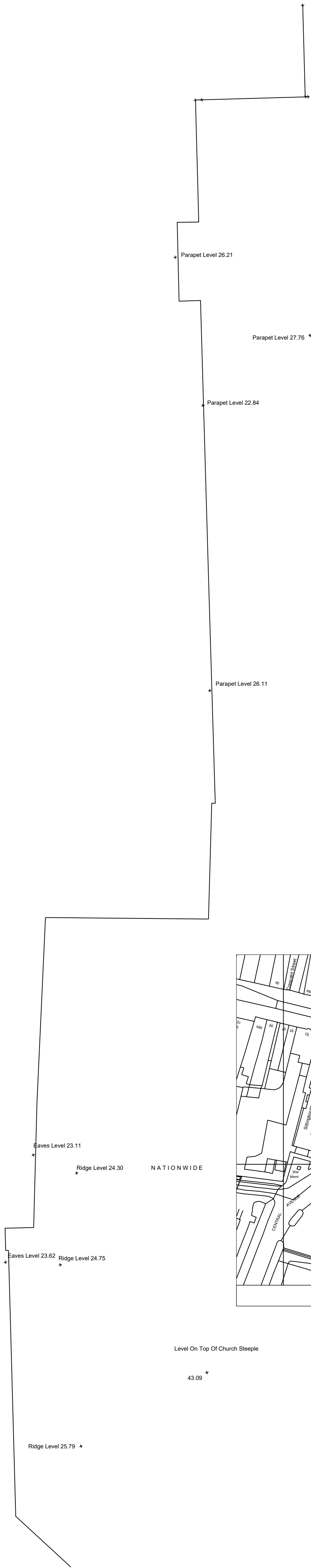
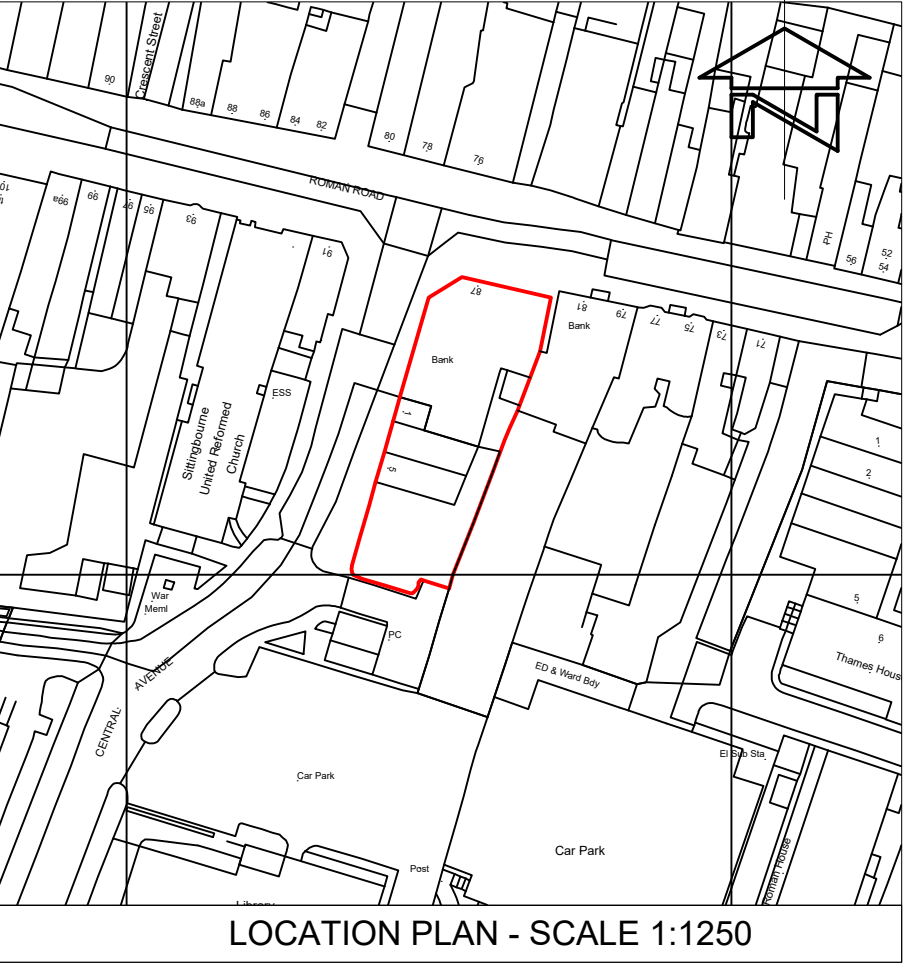
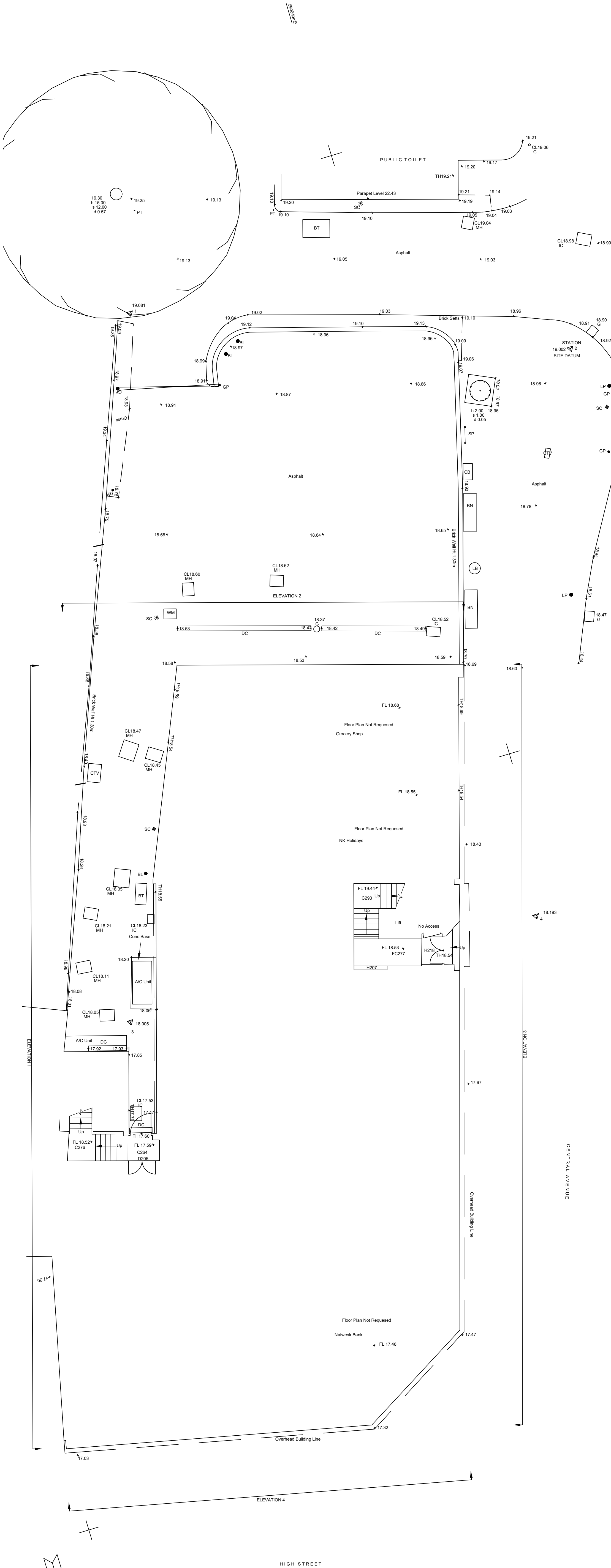
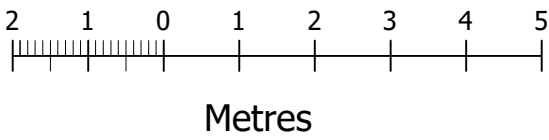
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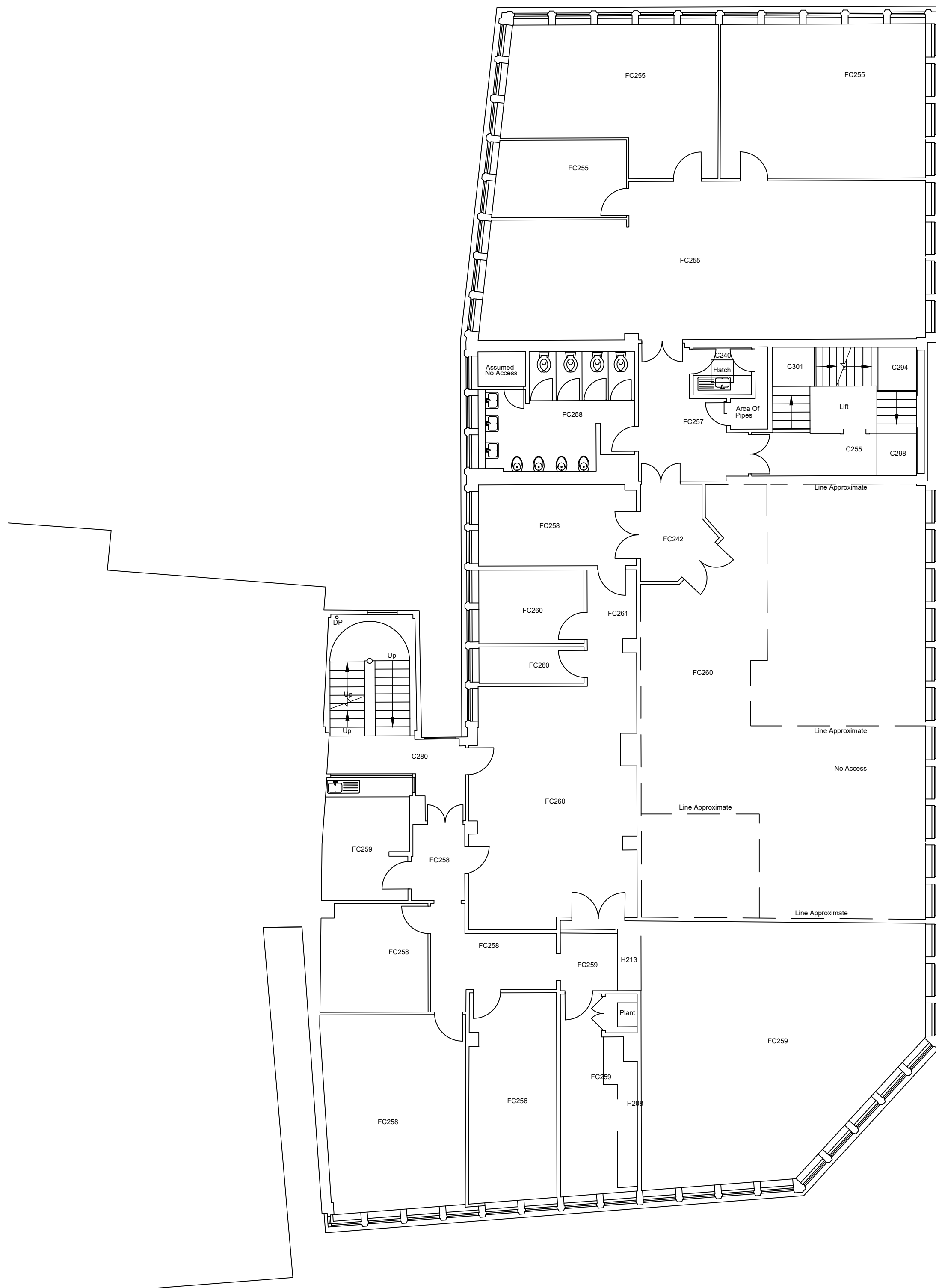
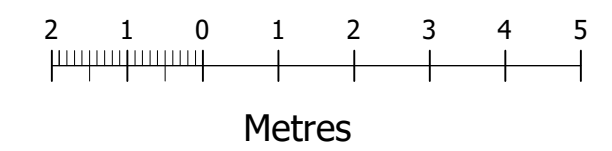
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KEN JUDGE & ASSOCIATES LTD.		
THE BARN, MONUMENT OFFICE, MALDON ROAD, MALDON, ESSEX, CM9 6SN.		
TEL: 01245 225577 FAX: 01245 227799 E-MAIL: info@kenjudgetld.co.uk		

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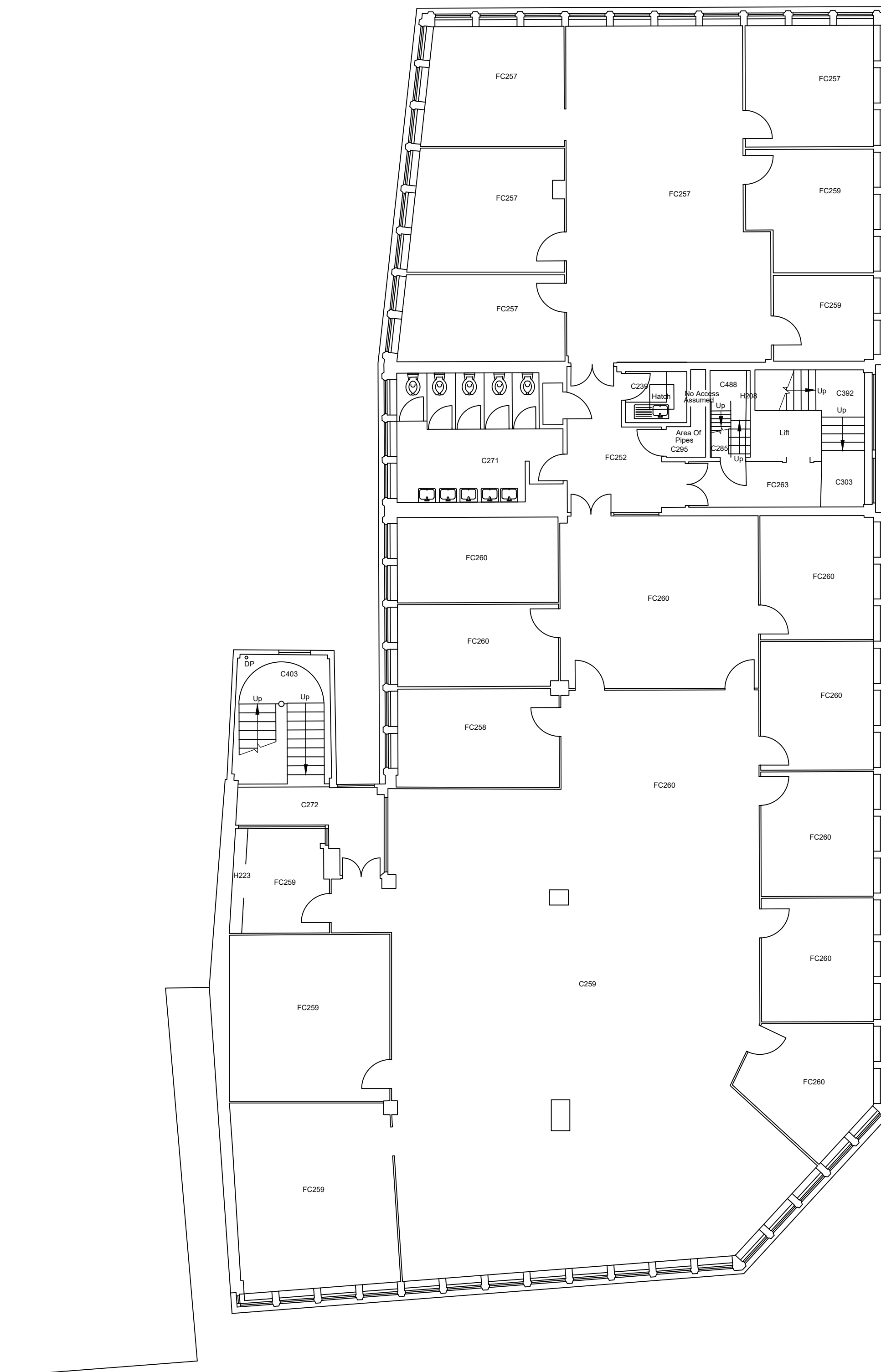
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EXISTING FIRST FLOOR PLAN



EXISTING SECOND FLOOR PLAN

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EXISTING FIRST & SECOND FLOOR PLANS.

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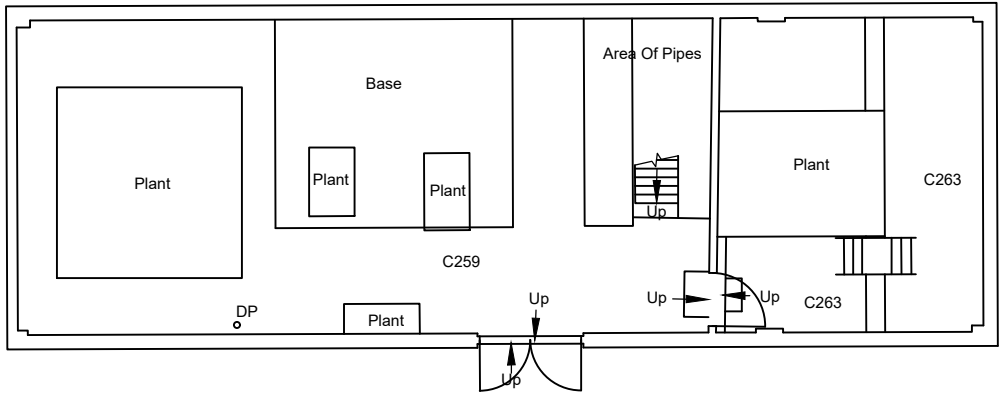
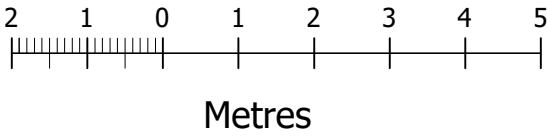


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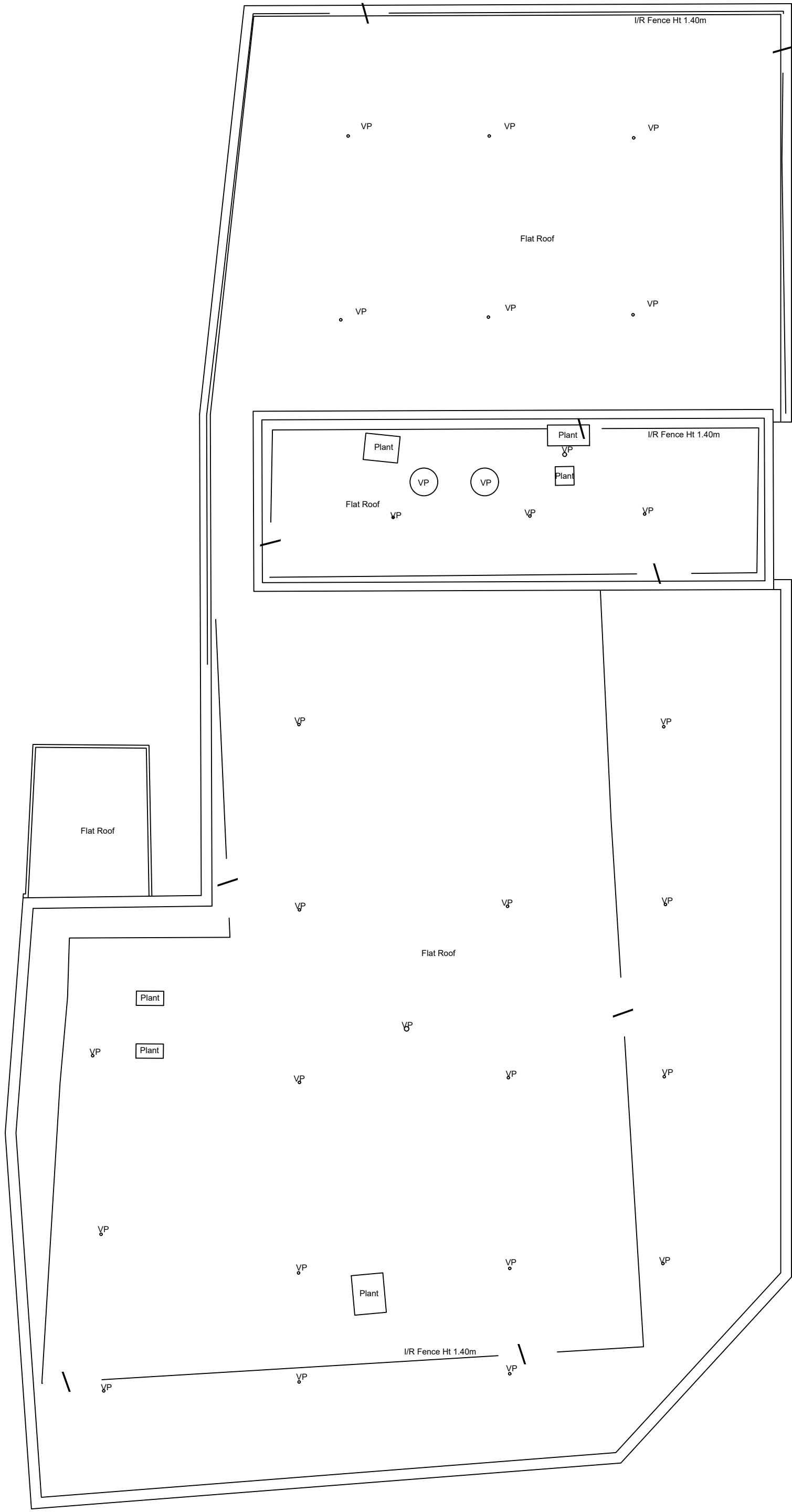
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EXISTING PLANT ROOM PLAN



EXISTING ROOF PLAN

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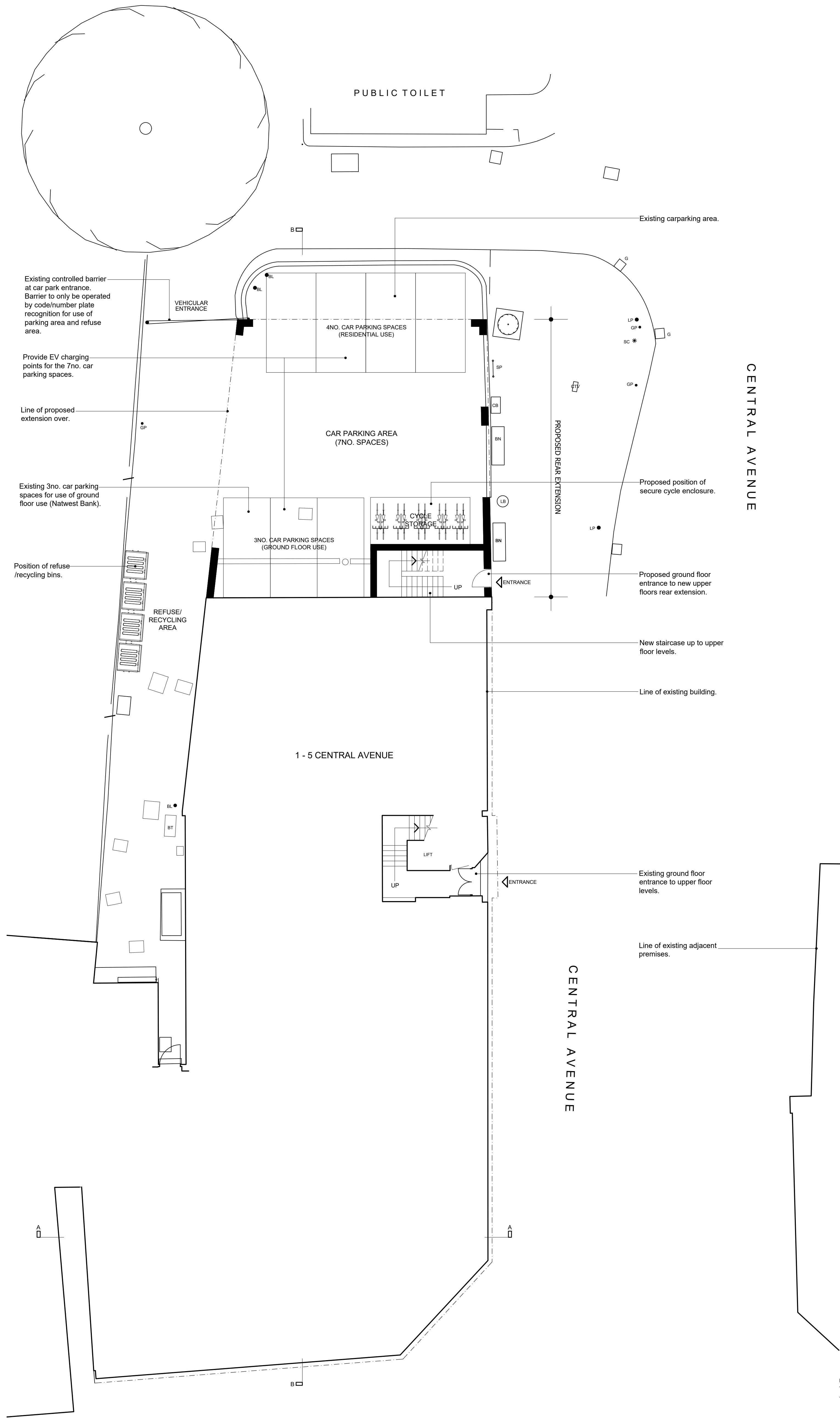
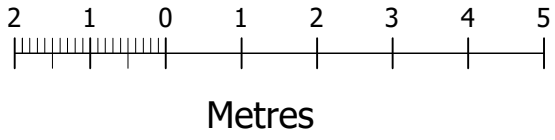
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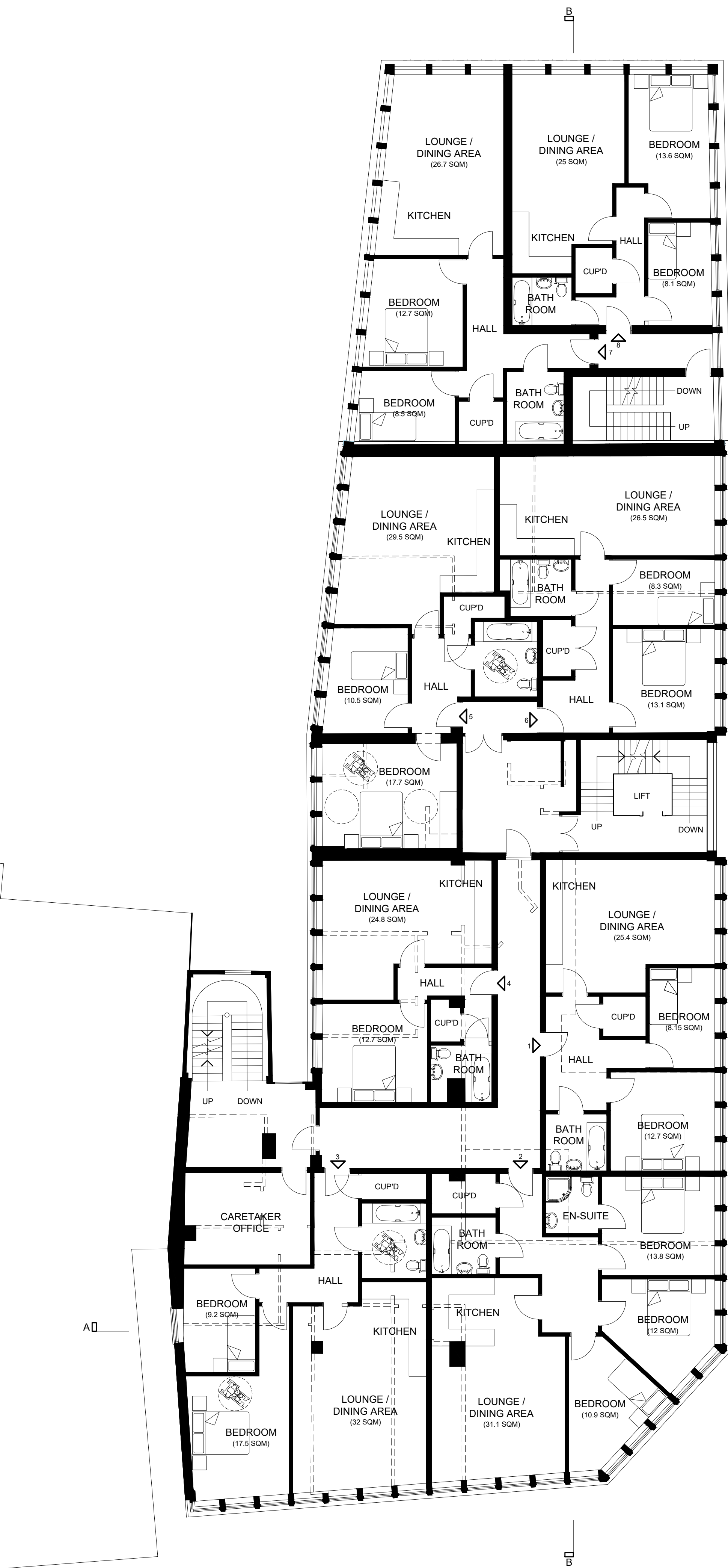
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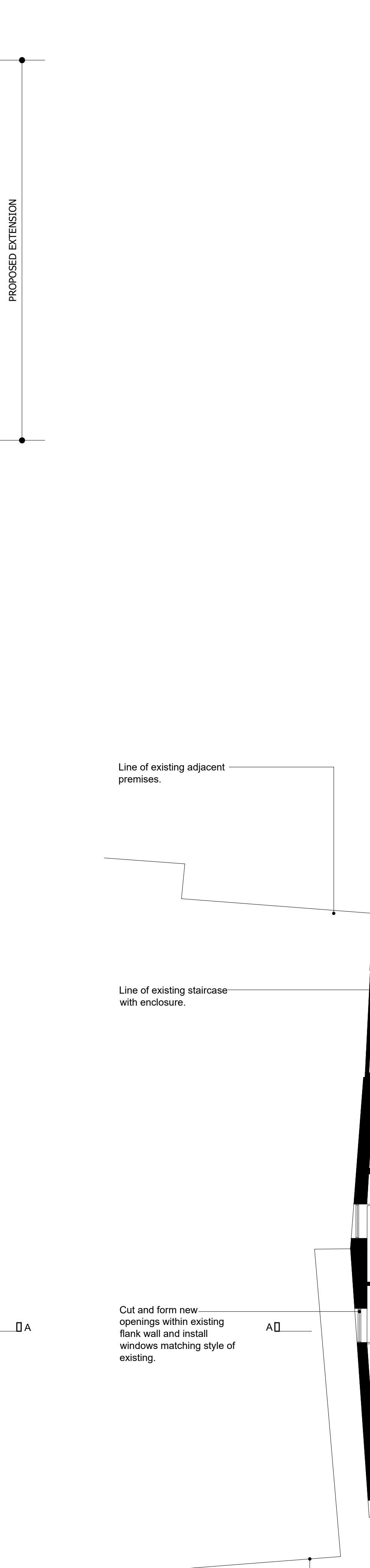
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PROPOSED SITE PLAN.

SCALE: 1:100(A1) DATE: SEPT 23 DRWN BY: DJR DWG. NO: 2666/10 REV: A

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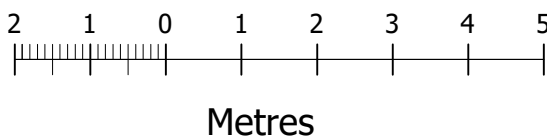


PROPOSED FIRST FLOOR PLAN



PROPOSED SECOND FLOOR PLAN

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DO NOT SCALE FROM THIS DRAWING. Dimensions stated are for guidance only, contractor to verify all boundary positions and dimensions on site prior to commencing any works, making workshop drawings or obtaining any materials.
No site supervision is implied or undertaken unless otherwise separately arranged.
The drawing does not indicate the extent of any excavation works and the contractor is to determine this prior to submitting a quotation for the works or commencing any works.
The drawing does not indicate or imply the structural condition of the property, the survey carried out was a "measure survey" for assistance in the preparation of details for Planning application purposes only. The details shown assume that the property is in sound condition and that there are no adverse ground conditions.



FLAT AREAS			
FLAT No.	GIA	CLDK	STORAGE
FLAT 1 (2b3p):	65.3sq.m	25.4sq.m	2.0sq.m
FLAT 2 (3b5p):	95.7sq.m	31.3q.m	3.0sq.m
FLAT 3 (2b3p):	79.5sq.m	32.0sq.m	2.0sq.m
FLAT 4 (1b2p):	50.8sq.m	24.8sq.m	1.5sq.m
FLAT 5 (2b3p):	75.4sq.m	29.5sq.m	2.1sq.m
FLAT 6 (2b3p):	67.3sq.m	26.5sq.m	2.0sq.m
FLAT 7 (2b3p):	68.0sq.m	26.7sq.m	2.1sq.m
FLAT 8 (2b3p):	61.7sq.m	25.0sq.m	2.0sq.m
FLAT 9 (2b3p):	65.1sq.m	25.3sq.m	2.0sq.m
FLAT 10 (3b5p):	95.7sq.m	31.1sq.m	3.0sq.m
FLAT 11 (3b5p):	94.5sq.m	31.3sq.m	3.1sq.m
FLAT 12 (1b2p):	50.5sq.m	24.7sq.m	1.5sq.m
FLAT 13 (2b4p):	75.9sq.m	27sq.m	2.6sq.m
FLAT 14 (2b3p):	67.4sq.m	26.4sq.m	2.0sq.m
FLAT 15 (2b3p):	68.0sq.m	26.7sq.m	2.2sq.m
FLAT 16 (2b3p):	61.7sq.m	25.0sq.m	2.0sq.m

NOTES:
1b2p = 1 bedroom / 2 person
2b3p = 2 bedroom / 3 person
2b4p = 2 bedroom / 4 person
3b4p = 3 bedroom / 4 person
3b5p = 3 bedroom / 5 person
GIA = Gross Internal Area
CLDK = Combined Living, Dining and Kitchen Area

REV B	FURTHER DETAILS ADDED.	13.11.23
REV A	REVISIONS REQUESTED BY THE CLIENT.	02.10.23
NO	REVISION	DATE

CONTRACT
1-5 CENTRAL AVENUE,
SITTINGBOURNE, ME10 4AU.

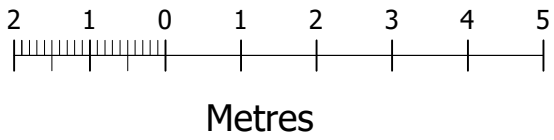
DRAWING TITLE
PROPOSED FIRST & SECOND FLOOR
PLANS.

SCALE: 1:100(A1) DATE: SEPT 23 DRWN BY: DJR DWG. NO:2666/11 REV: B

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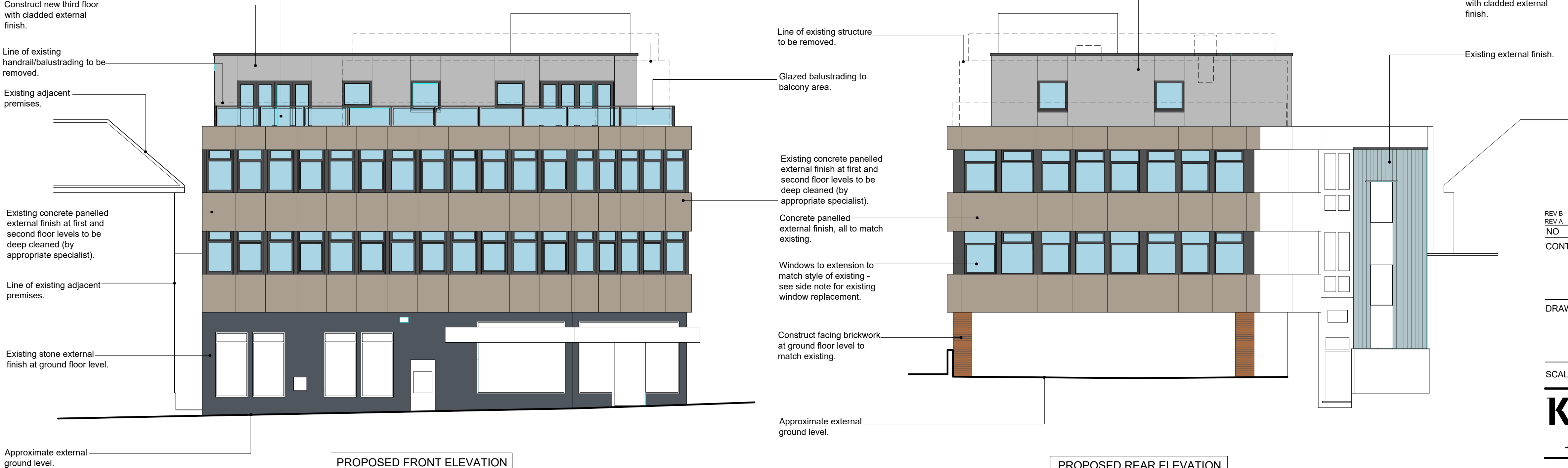
FLAT AREAS			
FLAT No.	GIA	CLDK	STORAGE
FLAT 17 (3b4p):	80.2sq.m	27.9sq.m	2.0sq.m
FLAT 18 (3b5p):	91.1sq.m	30.0sq.m	3.0sq.m
FLAT 19 (2b3p):	68.4sq.m	30.0sq.m	2.0sq.m
FLAT 20 (2b3p):	62.1sq.m	25.50sq.m	2.1sq.m
FLAT 21 (1b2p):	51.7sq.m	23.6sq.m	1.5sq.m
FLAT 22 (1b2p):	52.3sq.m	25.6sq.m	1.5sq.m
NOTES:			
1b2p = 1 bedroom / 2 person			
2b3p = 2 bedroom / 3 person			
3b4p = 3 bedroom / 4 person			
3b5p = 3 bedroom / 5 person			
GIA = Gross Internal Area			
CLDK = Combined Living, Dining and Kitchen Area			

REV B	FURTHER DETAILS ADDED.	13.11.23
REV A	REVISIONS REQUESTED BY THE CLIENT.	29.05.23
NO	REVISION	DATE

CONTRACT
1-5 CENTRAL AVENUE,
SITTINGBOURNE, ME10 4AU.

DRAWING TITLE
PROPOSED THIRD FLOOR & ROOF PLANS.

SCALE: 1:100(A1) DATE: SEPT 23 DRWN BY: DJR DWG. NO:2666/12 REV: B



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2 1 0 1 2 3 4 5

Metres

EXTERNAL MATERIALS

EXISTING CONCRETE PANELLED EXTERNAL FINISH AT FIRST AND SECOND FLOOR LEVELS TO BE DEEP CLEANED (BY APPROPRIATE SPECIALIST).

THE EXISTING SINGLE GLAZED METAL FRAMED WINDOWS (POSSIBLY CRITTAL) TO BE REPLACED WITH NEW DOUBLE GLAZED STEEL FRAMED WINDOWS, DARK GREY.

REV B	FURTHER DETAILS ADDED.	13.11.23
REV A	REVISIONS REQUESTED BY THE CLIENT WITH FURTHER DETAILS ADDED.	29.09.23
NO	REVISION	DATE

CONTRACT

**1-5 CENTRAL AVENUE,
SITTINGBOURNE, ME10 4AU.**

DRAWING TITLE

PROPOSED ELEVATIONS.

SCALE: 1:100(A1) DATE: SEPT 23 DRWN BY:DJR DWG. NO:2667/13 REV: B

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