

Specification:

1.0 General

- 1.1 This specification is to be read in conjunction with all Architect's, Engineer's and Services Engineer's drawings and specifications.
- 1.2 Do not scale from any of the structural drawings. All dimensions to be verified on site and any discrepancies should be highlighted to the Architect.
- 1.3 The contractor is responsible for the stability of the building and adjoining structures during construction and shall design, install, adapt and maintain all necessary propping and temporary works and programme works accordingly. Do not overload any new or existing, completed or partially completed elements of the building. A method statement for the temporary works must be submitted to the contract administrator for comment before work begins.
- 1.4 The setting out of the building is shown on the Architect's drawings. Techniker's drawings provide supporting information for the construction of the building structure. The contractor shall ensure that sufficient tolerances are provided and integrated throughout all elements of the works and take account of tolerances detailed elsewhere in the contract documents in complying with this clause. Take all necessary site measurements to establish all dimensions necessary to fabricate new steelwork or other elements of the structure.
- 1.5 Fire protection to all structural elements to Architect's details.
- 1.6 All waterproofing to the Architect's details.
- 1.7 Unless otherwise noted, all materials should be new and comply with the relevant British Standard.
- 1.8 The contractor is responsible for the stability of the building and adjoining structures during construction and shall design, install, adapt and maintain all necessary propping and temporary works and programme works accordingly. Do not overload any new or existing, completed or partially completed elements of the building. A method statement for the temporary works must be submitted to the contract administrator for comment before work begins.
- 1.9 The drawings of the existing building indicate the assumed structural arrangement. Carry out additional investigations where necessary to allow detailed design of temporary support.
- 1.10 Techniker drawing 7174-400 shows the sequence of construction assumed in formulating the structural design and should be read in accordance with the CDM Risk Assessment. The Contractor shall prepare his own proposals for which he will be entirely responsible and shall submit them for comment to the contract administrator for comment prior to commencing work on site.
- 1.11 The setting out of the building is shown on the Architect's drawings. Techniker's drawings provide supporting information for the construction of the building structure.
- 1.12 The contractor shall ensure that sufficient tolerances are provided and integrated throughout all elements of the works and take account of tolerances detailed elsewhere in the contract documents in complying with this clause.
- 1.13 Take all necessary site measurements to establish all dimensions necessary to fabricate new steelwork or other elements of the structure.
- 1.14 The Services Engineer's drawings provide a layout of pipes, ducts, etc showing how they should pass through the structure. The approach adopted takes account of the effects of the holes notches etc. on the retained structure.
- 1.15 Adopt the principles shown and produce builder's work drawings including floor plans and elevations of all affected walls. Indicate on these drawings the precise location and sizes of all builder's work holes, chases etc and the method of construction proposed. Highlight any modifications to the proposed routes from those shown on the contract drawings. Submit proposals to the Design Team for comment, allowing ten working days before programmed commencement of the works.Take all necessary site dimensions to determine setting out of services. Coordinate the services with the existing structural drawings.
- 1.16 Take account of requirements for opening up works and preparation of final construction details in the contract programme. Allow sufficient time for taking site dimensions to complete fabrication drawings and builder's work drawings in addition to the periods required for submission and comments on these drawings.
- 1.17 Submit a programme for comment, clearly identifying phased opening up works together with clearly identified periods for taking site dimensions and preparing necessary drawings for comment.
- 1.18 Settlement joints to be 20mm thick Aerofil 1 (or similar approved).
- 1.19 Movement joints to be 20mm thick Aerofil 1 (or similar approved).

2.0 Steelwork

- 2.1 Comply with latest edition of National Structural Steelwork Specification (NSSS). Make document available during the course of the works at fabrication shop and on site.
- 2.2 All materials and workmanship to comply with BS 5950.
- 2.3 The contractor is to complete the design including connections in accordance with BS 5950. Connections shall be designed to carry the loads specified on the drawings, which are factored to the Ultimate Limit State unless noted otherwise.
- 2.4 Except where noted on the drawings, beams are designed as simply supported but with nominal moment capacity of 5 kNm to provide stability to the frame in the temporary case.
- 2.5 All internal steelwork to be in accordance with BS EN 10025 and supplied in the grades noted on the drawings. Unless noted otherwise bolts to be grade 8.8 equivalent and hot-dip galvanised.
- 2.6 Internal steelwork to be thoroughly cleaned by grit blasting to grade Sa2.5 and painted with 2 coats of zinc phosphate primer to a minimum overall thickness of 75µm.
- 2.7 Steelwork which requires an intumescent coating should be primed with paint compatible with the finishing coat.

3.0 Foundations - General

- 3.1 The contractor is to give Techniker a minimum notice period of 3 working days notice to inspect all foundation excavations.
- 3.2 Mass concrete for foundations to be designated grade GEN4.

4.0 Foundations - Piled Foundations & Retaining

- 4.1 Comply with all sections of the current edition of the 'Specification for piling and embedded retaining walls' (SPREW). Correction of SPREW: In the penultimate line of table 1.2, substitute 5.10 for 5.8. Where SPREW refers to the Engineer interpret reference as meaning Contract Administrator.
- 4.2 The contractor shall design and construct piles in accordance with SPREW, clause 1.4, option 1. The contractor shall confirm the Site Investigation as adequate or propose further investigation as considered necessary.
- 4.4 The design of piles should be completed in accordance with the specified working load (SWL) given on Techniker drawing 7096-100. The piles installed to form a contiguous bored pile wall shall be designed by the contractor for both temporary and permanent load cases including the lateral surcharge imposed by the neighbours property. The factor of safety applied to the design of piles and retaining walls should not be less than 3.0.
- 4.5 Piles should settle by no more than 5 mm at their SWL.
- 4.6 All piles installed should be subjected to integrity testing. A minimum of 7 days should be allowed between casting and testing of a pile.
- 4.7 The contractor shall submit proposals for the method of integrity testing for which he shall be entirely responsible. Allowance should be made in the programme for integrity testing to be carried out.
- 4.8 A full report of the results of integrity testing should be provided to the Contract Administrator within 7 days of completion of the testing regime.
- 4.10 Piling mat to contractor design. Contractor to ensure the piling mat meets the requirements of his proposed plant.
- 4.12 All materials and workmanship in accordance with SPERW and Techniker NBS.
- 4.13 Piling contractor to review rig clearances against existing buildings.
- 4.14 Tolerances shall be in accordance with SPERW and notably ± 75mm positional tolerance at cut off level and 1:75 max vertical non alignment.

5.0 Excavation & Filling

- 5.1 All excavated soil to be disposed in accordance with DEFRA, Environmental Agency & Local Authority legislation.
- 5.3 All temporary works for excavations are to be designed and maintained by the contractor in line with the HSE guidelines.
- 5.4 Excavations to allow for the presence of groundwater.

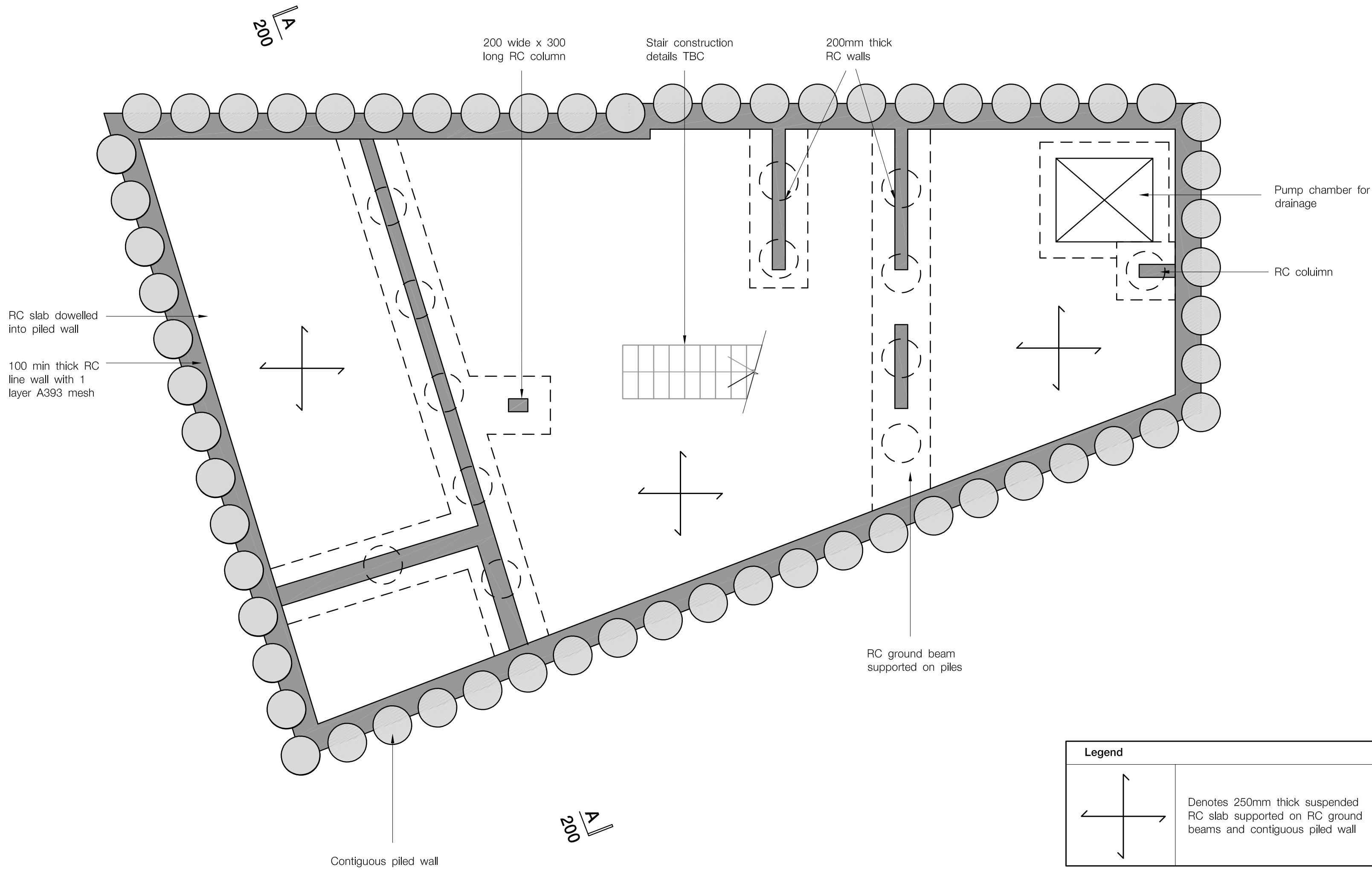
6.0 Concrete

- 6.1 Comply with the latest edition of 'National Structural Concrete Specification for Building Construction' (NSCS).
- 6.2 Attention is drawn to the requirements for concreting in cold weather given in BS8110, specifically the temperature of the concrete should not fall below 5°c until the structural element reaches a strength of 5N/mm²
- 6.3 Reinforced concrete for basement slab & retaining walls to be designated grade FND 3 to BS EN 206-1 & BS 8500.
- 6.4 Nominal cover to reinforcement is to be in accordance with the drawings. Unless noted otherwise on the drawings, reinforcement should be fixed to a positional tolerance of ±10 mm.
- 6.5 Concrete slabs and columns to be designated mix RC40 to BS8500-3.
- 6.6 All reinforcement grade H500B to BS4448. Bending & cutting of bars to BS8667.
- 6.7 Cover to reinforcement as marked on the reinforcement drawings.
- 6.8 All materials and workmanship to BS8110, the National Structural Concrete Specification (NSCS) and Techniker NBS.

NOTES

1. This drawing is to be read in conjunction with all relevant architects and engineers drawings and specifications
2. Do not scale this drawing

P1 Issued for Information11-07-08DP			
REV	COMMENTS	DATE	CHK
STATUS Preliminary			
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PROJECT Standard Details			
SUBJECT General Notes			
SCALE @ A1 NTS		DATE May 08	
BY MOH		CHECKED RS	
DRAWING No. 7174/001		REV P1	



- NOTES
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STATUS

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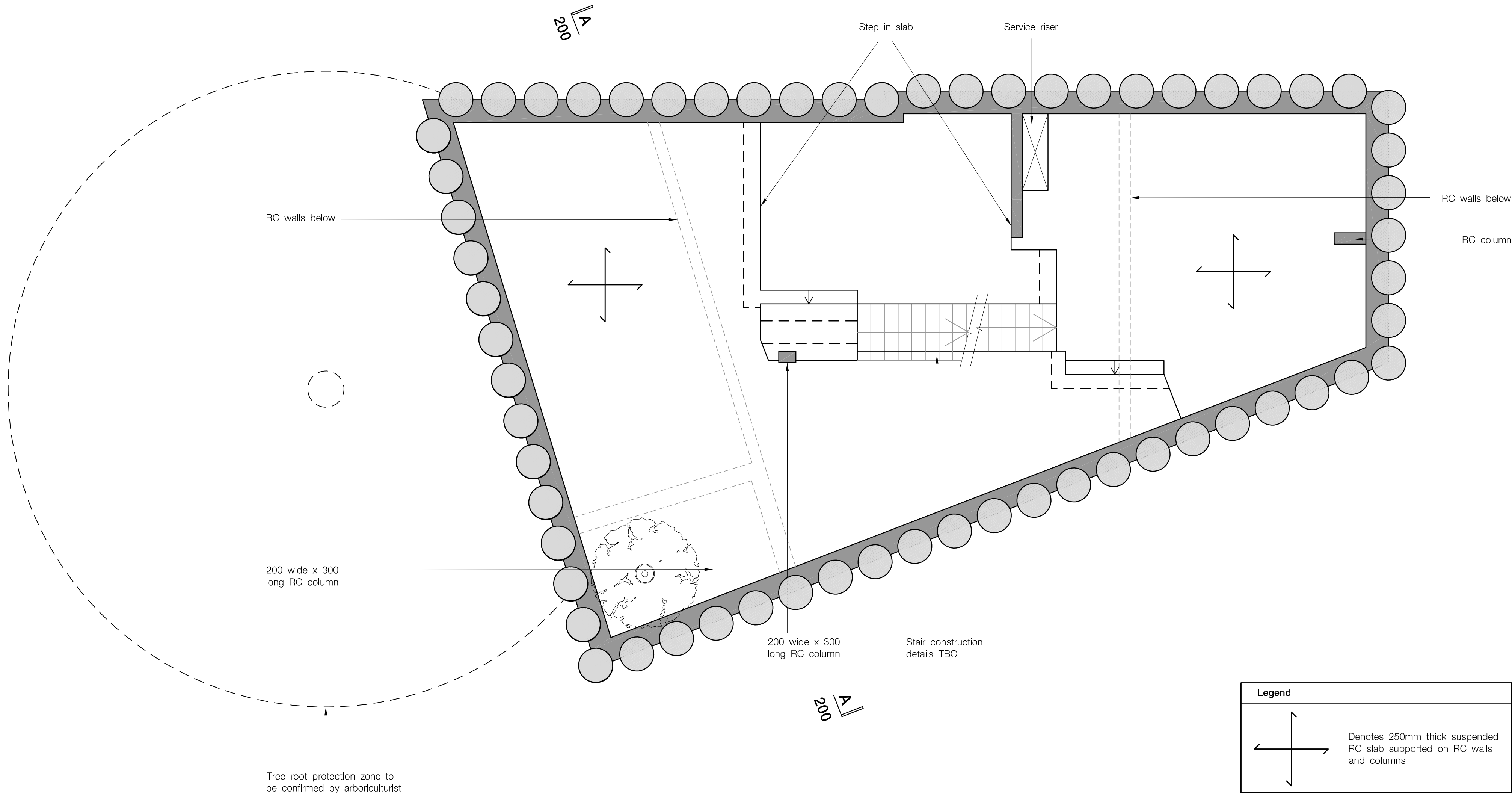
PROJECT

34 Kingstown Street

SUBJECT

Basement

SCALE @ A1	DATE
1:50	May 08
BY	CHECKED
MOH	RS
DRAWING No.	REV
7174/101	P1



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PROJECT
34 Kingstown Street

SUBJECT
Lower Ground

SCALE @ A1
1:50

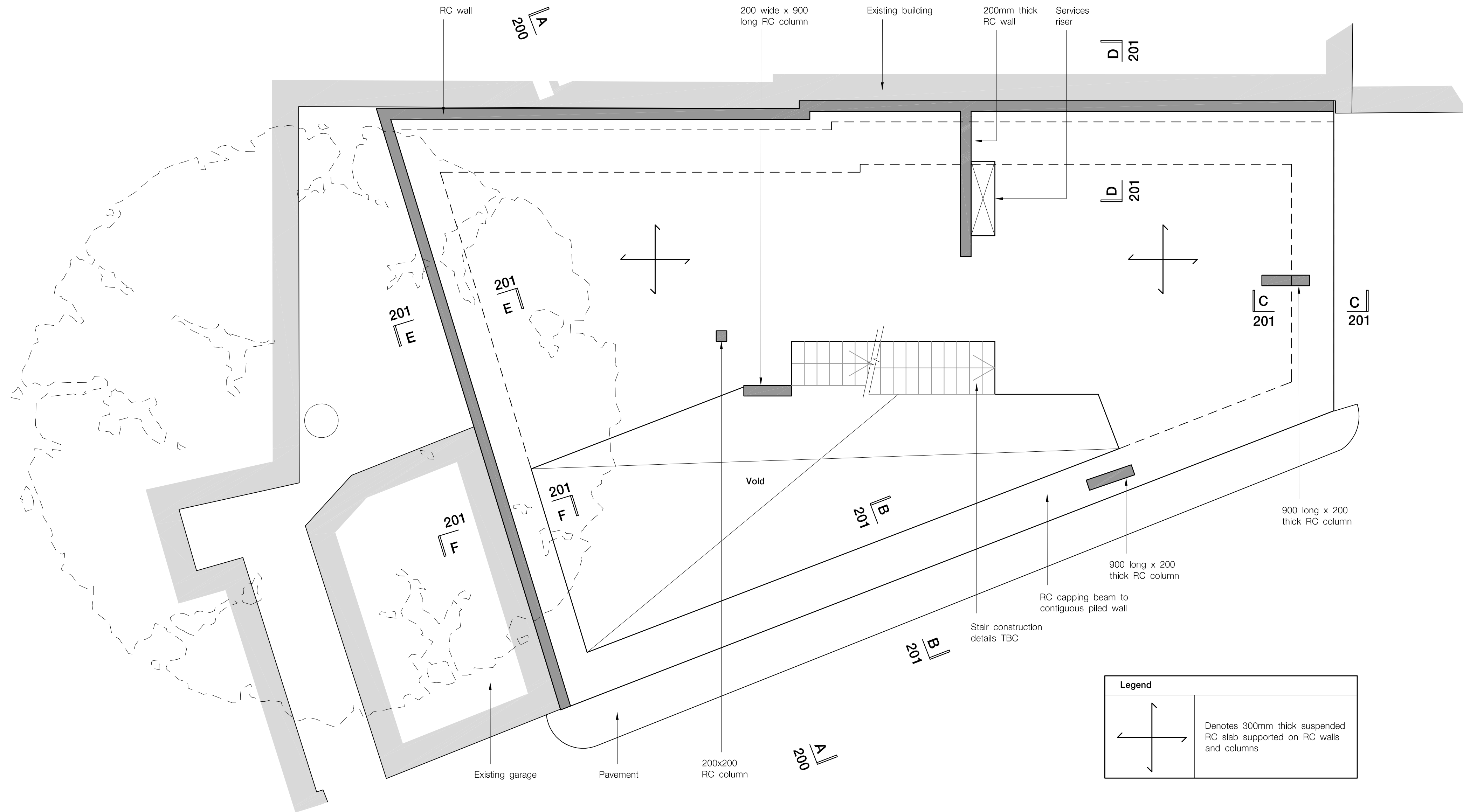
DATE
May 08

BY
MOH

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RS

DRAWING No.
7174/102

REV
P1



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PROJECT
34 Kingstown Street

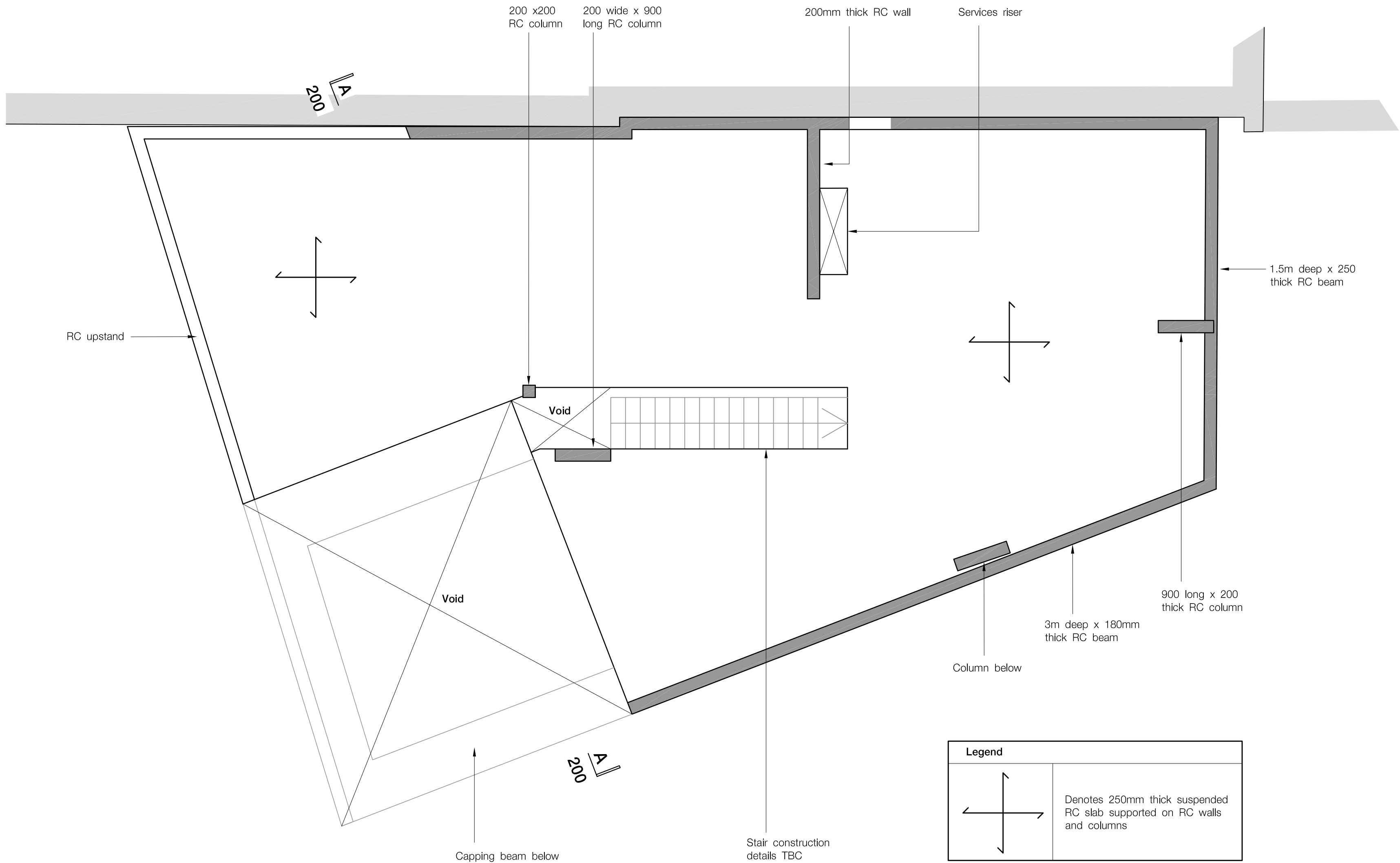
SUBJECT

Ground Floor

SCALE @ AI DATE **May 08**

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MOH	RS

DRAWING No. 7174/103 REV P1



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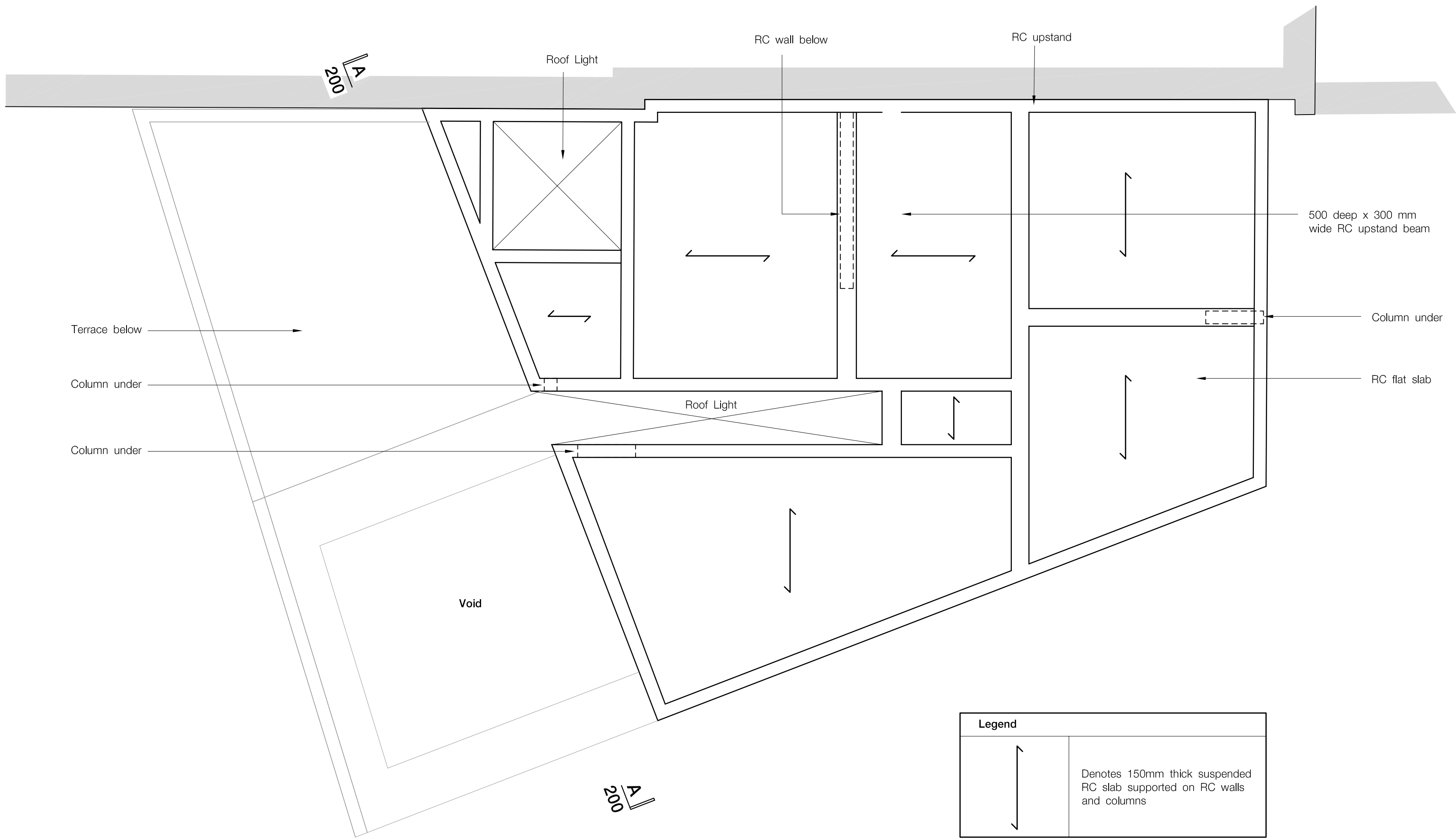
PROJECT

34 Kingstown Street

SUBJECT

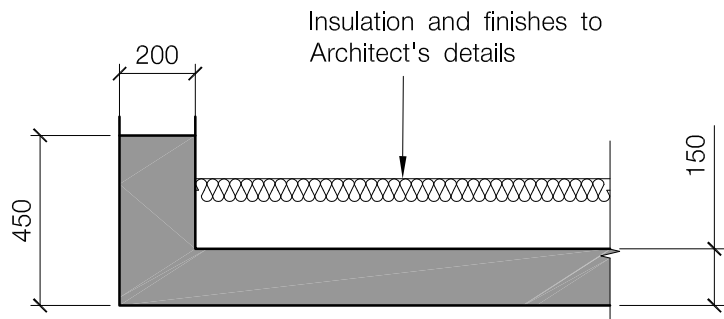
First Floor

SCALE @ A1	DATE
1:50	May 08
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MOH	RS
DRAWING No.	REV
7174/104	P1



Legend	
	Denotes 150mm thick suspended RC slab supported on RC walls and columns

Note
All edge beams to be 450x200mm thick
All internal beams to be 450x275mm thick



Typical perimeter upstand detail
(scale 1:20)

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REV	COMMENTS	DATE	CHK

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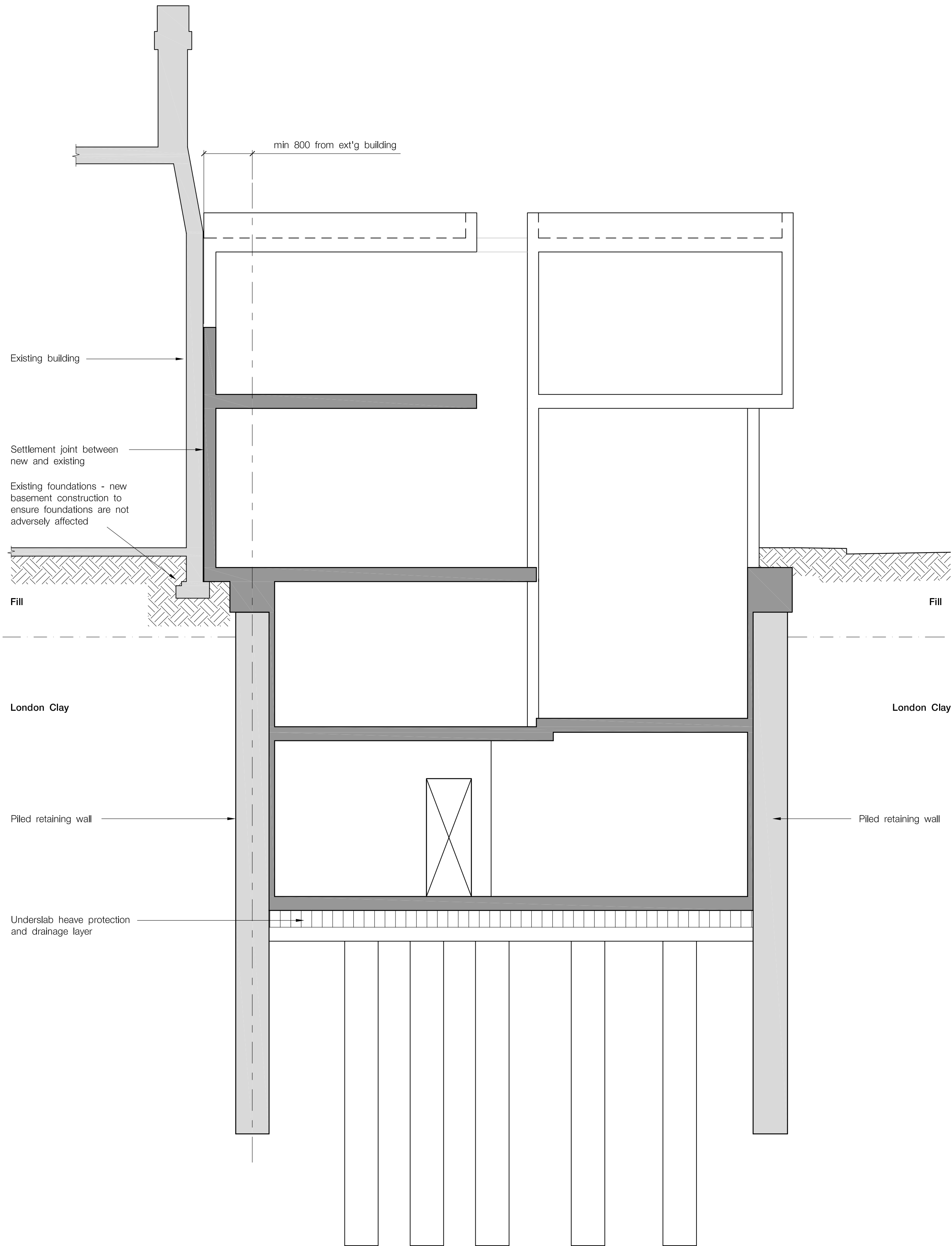
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PROJECT
34 Kingstown Street

SUBJECT
Roof

SCALE @ A1	DATE
1:50	May 08
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DRAWING No.	REV
7174/105	P1



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PROJECT
34 Kingstown Street

SUBJECT
Section A-A

SCALE @ A1	DATE
1:50	May 08
BY	CHECKED
MOH	RS
DRAWING No.	REV
7174/200	P1