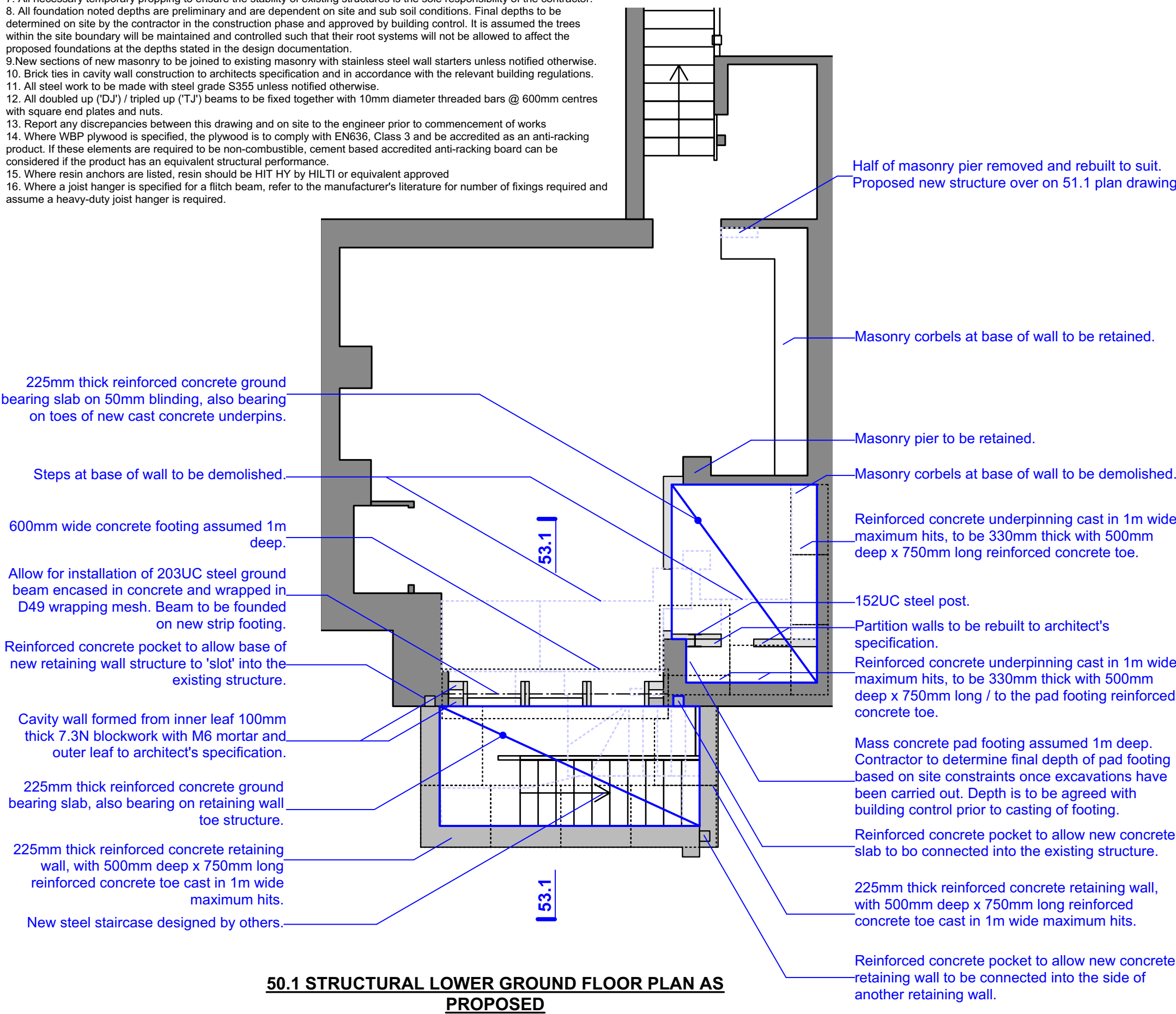


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  6. All structural steel elements to be painted with zinc phosphate primer prior to installation of frame unless finish and sub base is specified by others.
  7. All necessary temporary propping to ensure the stability of existing structures is the sole responsibility of the contractor.
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  14. Where WBP plywood is specified, the plywood is to comply with EN636, Class 3 and be accredited as an anti-racking product. If these elements are required to be non-combustible, cement based accredited anti-racking board can be considered if the product has an equivalent structural performance.
  15. Where resin anchors are listed, resin should be HIT HY by HILTI or equivalent approved
  16. Where a joist hanger is specified for a flitch beam, refer to the manufacturer's literature for number of fixings required and assume a heavy-duty joist hanger is required.

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50.1 STRUCTURAL LOWER GROUND FLOOR PLAN AS PROPOSED

Associated Health & Safety hazards and risks:

It has been assumed that the works are carried out by a reasonably competent contractor with structural experience on similar scale projects and construction systems. Therefore only the hazards and risks outside the contractor's assumed knowledge and competency that relate to structural engineering are indicated below.

- These drawings specify the proposed works only. All temporary works related to structural works including the demolition and resupport of the side and rear elevation needs to be considered. Pad foundations may need to be cast prior to any demolition works being carried out. This would allow the proposed foundations to work as temporary bases for the temporary props and later new foundations. Pad bases may be enlarged or cast as a series of pins to allow for a safe method of working for the contractor. The contractor is to consider their requirements regarding the sequence of works and allow for this in their tender.
- The existing and proposed structures have the potential to be unstable in the part-erected condition, and the contractor should ensure all temporary works can resist temporary lateral and vertical loadings during its temporary stage. The contractor should consider potential risks associated with storm events amongst other risks. Storm events may result in heavy rainfall that may destabilise sub-soils and high winds that will apply horizontal and vertical loading on the temporary structure.
- Some structural steel members will be too heavy to lift without multiple operatives and/or mechanical lifting equipment. Should structural members be required to be installed in sections for ease of construction, contractor should notify the engineer with the position of the proposed join. The engineer can then design a 'splice' connection.

KEY

- existing building fabric
- new load bearing structure. refer to annotations
- demolition
- new non loadbearing partitions. refer to architect's drawings

Project	Flat 1 14 Glenmore Rd NW3 4DB		
Drawing No.	B167 50	Revision	P1
Drawing Title	structural lower ground floor plan		
Date	21/12/2021	Scale	1:50 @A3
Status	Stage 3	Project No.	B167
CAD Ref.	B167 proposed	Drawn	MM

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203UC steel post. Brick ties shot fired to web and flange at centres to conform with building regulations. Allow for full moment connection at head of post.

Allow for installation of new 203UC steel ground beam encased in concrete and wrapped in D49 wrapping mesh. Beam to be founded on new pad footings.

200mm thick reinforced concrete slab on 150mm void former / new footings.

Mass concrete pad footing assumed to be 2.5m deep.

Allow for installation of new 203UC steel ground beam encased in concrete and wrapped in D49 wrapping mesh. Beam to be founded on new pad footings.

200mm thick reinforced concrete slab on 150mm void former / new footings.

Mass concrete pad footing assumed to be 2.4m deep.

Cavity wall formed from inner leaf 100mm thick 7.3N blockwork with M6 mortar and outer leaf to architect's specification.

2no. 50mm x 150mm C24 timber trimmers to be installed for new stairs location supported via 2mm thick steel brackets and screw fixings. Typical for DJ timber members for stair trimming out.

50mm x 150mm C24 timber joists @400mm c/c supported via 2mm steel brackets and screw fixings. 18mm WBP plywood screw fixed to topside.

Timber studs on either side of the new opening as king and jack studs.

Direction of existing timber floor joists.

Infill existing door opening with timber stud construction.

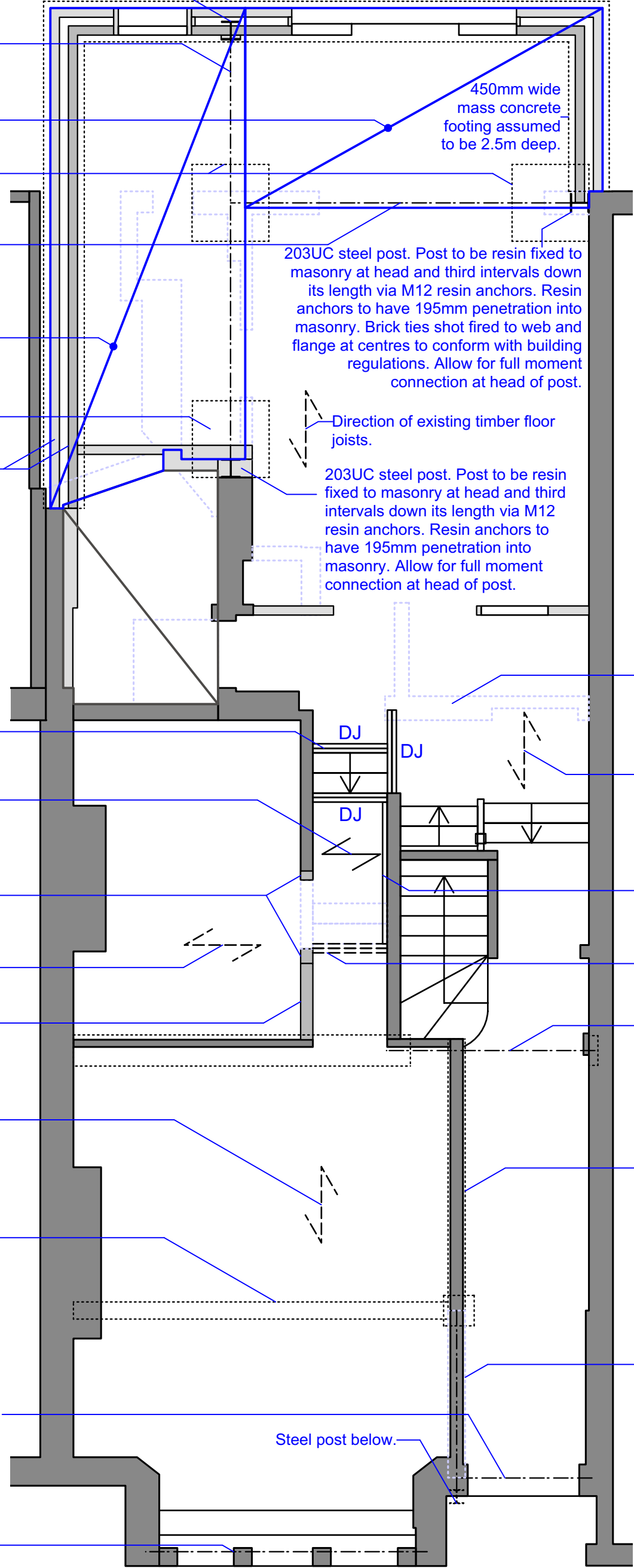
Direction of existing timber floor joists.

Existing beam to be retained. Assumed beam is a steel beam encased on concrete.

152UC steel beam connected to side of other steel beam at one end and bearing on masonry at the other end. Minimum 100mm bearing on padstone.

203UC steel beam as lintel with minimum 150mm bearing on supporting masonry walls, with continous dry packing between lintel and masonry over. Lintel to be bearing on 10mm mortar bed.

Contractor to determine final depth of pad footing / strip footing foundations based on site constraints once excavations have been carried out. Depth to be agreed with building control prior to casting of footing.



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Masonry wall removed. Steel beam to resupport masonry above (see plan drawing 101.2).

Direction of existing timber floor joists.

Timber wall plate, resin fixed to masonry wall via M12 resin anchors @600mm c/c.

Assumed existing timber trimming out for pervious stairs location.

203UC steel beam, with minimum 100mm bearing on padstone at each end. [Alternatively - masonry pier to be retained, leaving the beam structure as it is and reducing complexity of construction works.]

Existing beam to be retained and resupported on new beam at end near stairs. Assumed beam is a steel beam encased on concrete.

Existing beam to be removed, and replaced with 152UC steel beam connected to steel post at one end and bearing on masonry pier at the other end. Minimum 100mm bearing on padstone.

**KEY**

- existing building fabric
- new load bearing structure. refer to annotations
- demolition
- new non loadbearing partitions. refer to architect's drawings

**51.1 STRUCTURAL GROUND FLOOR PLAN AS PROPOSED**

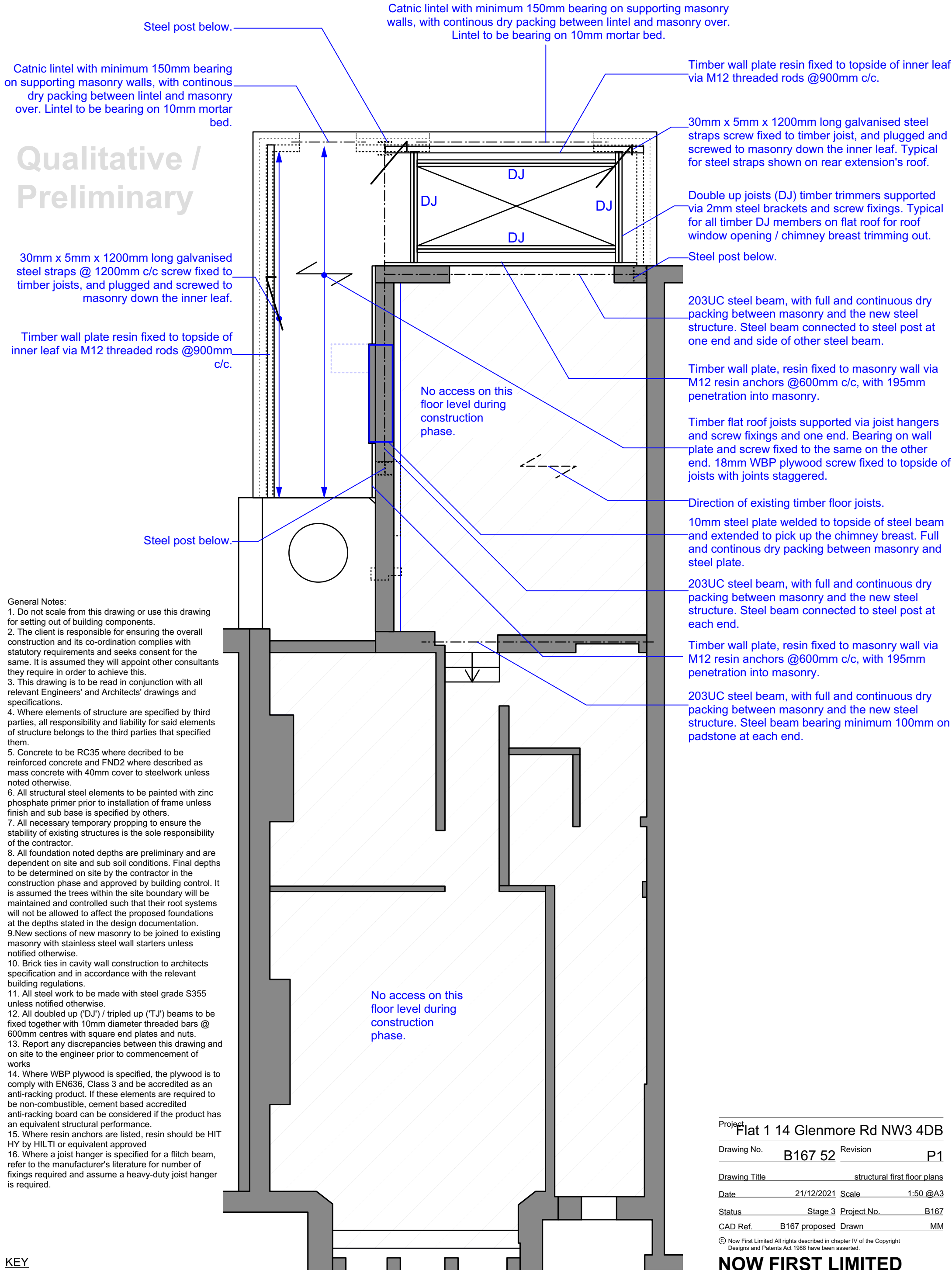
Project	Flat 1 14 Glenmore Rd NW3 4DB		
Drawing No.	B167 51	Revision	P1
Drawing Title	structural ground floor plans		
Date	21/12/2021	Scale	1:50 @A3
Status	Stage 3	Project No.	B167
CAD Ref.	B167 proposed	Drawn	MM

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KEY

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- new load bearing structure. refer to annotations
- demolition
- new non loadbearing partitions. refer to architect's drawings

52.1 STRUCTURAL FIRST FLOOR PLAN AS PROPOSED

Project	Flat 1 14 Glenmore Rd NW3 4DB		
Drawing No.	B167 52	Revision	P1
Drawing Title	structural first floor plans		
Date	21/12/2021	Scale	1:50 @A3
Status	Stage 3	Project No.	B167
CAD Ref.	B167 proposed	Drawn	MM

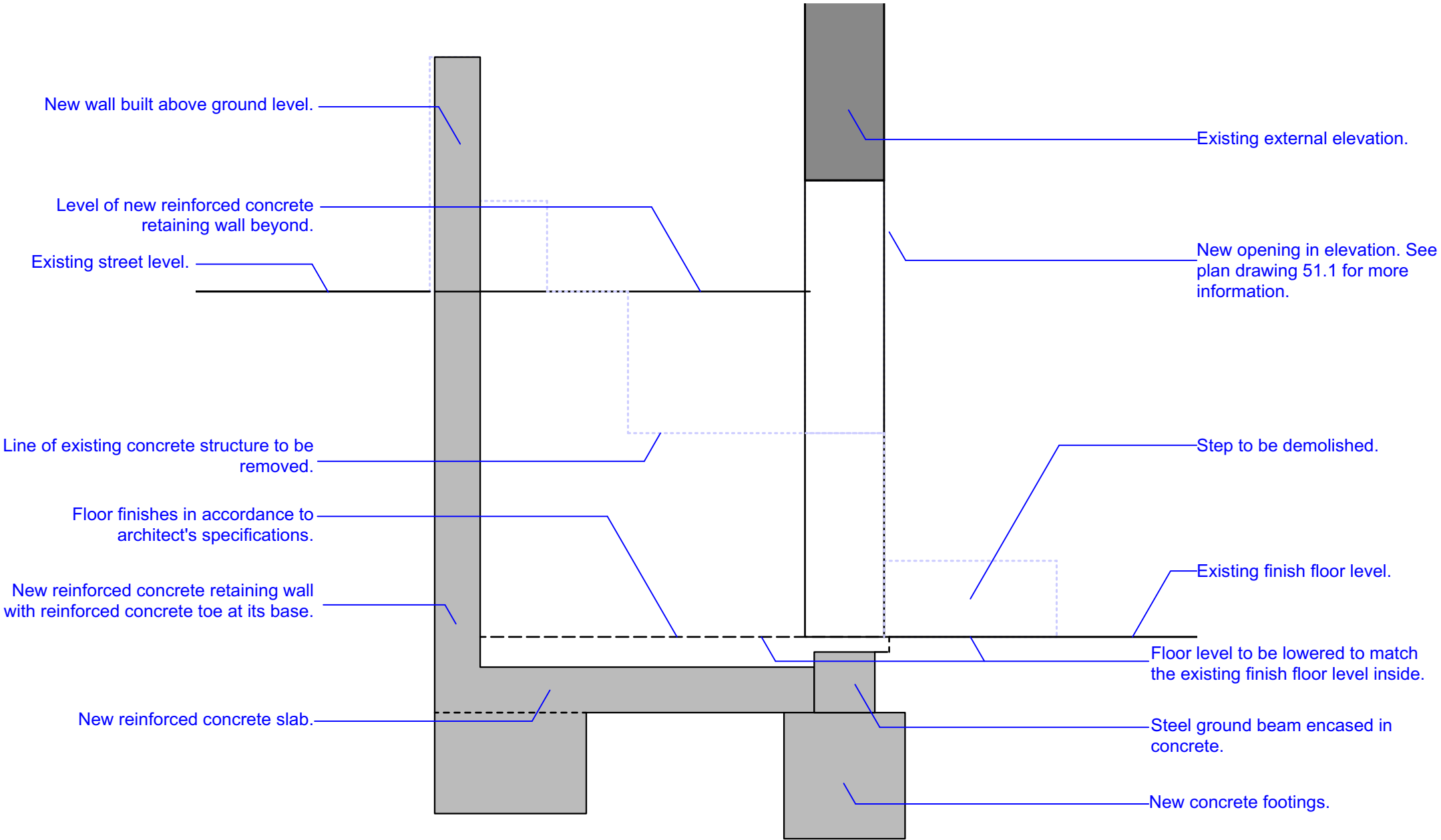
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53.1 STRUCTURAL SECTION THROUGH LIGHTWELL AS PROPOSED (SCALE @1:25)

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Project Flat 1 14 Glenmore Rd NW3 4DB			
Drawing No.	B167 53	Revision	P1
Drawing Title	structural section for lower ground floor		
Date	21/12/2021	Scale	1:50 @A3
Status	Stage 3	Project No.	B167
CAD Ref.	B167 proposed	Drawn	MM

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