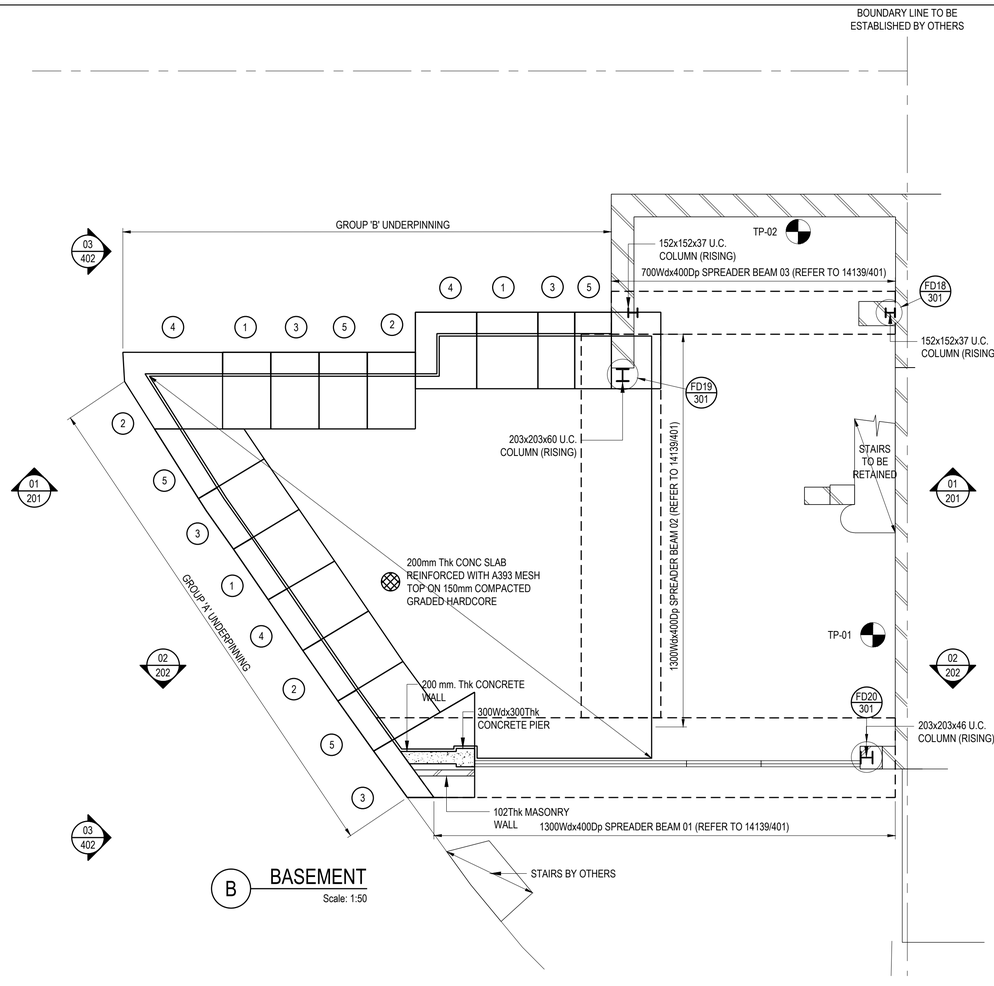
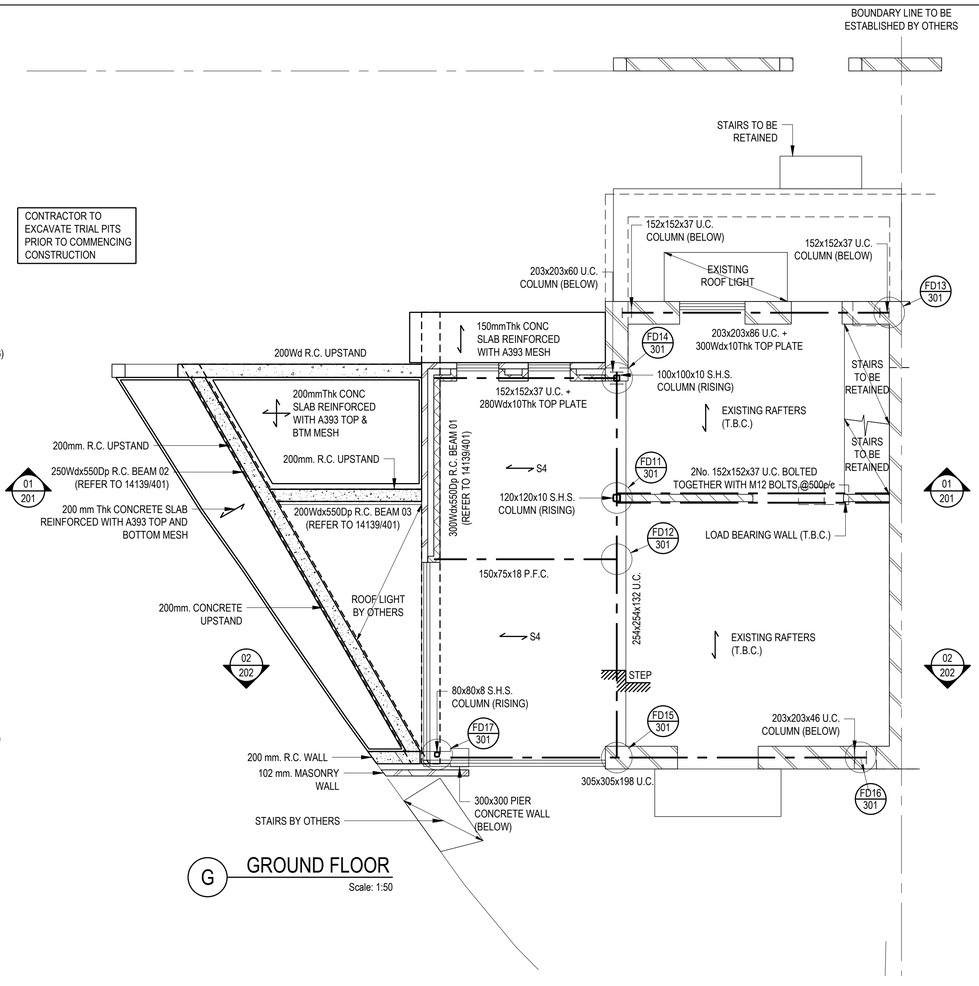
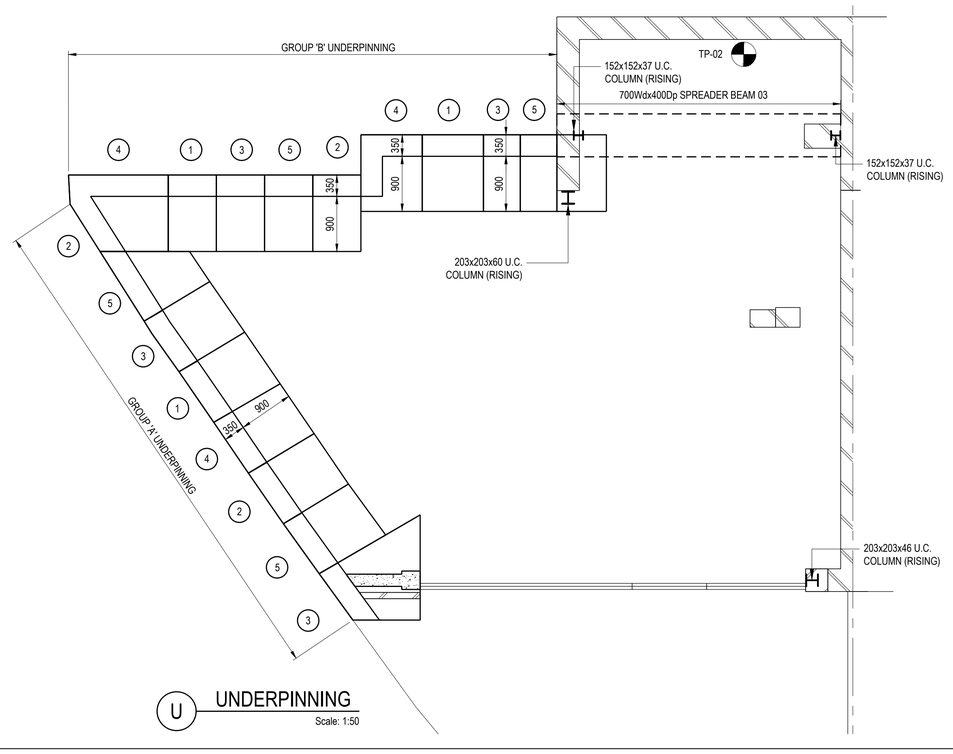


B BASEMENT
Scale: 1:50

CONTRACTOR TO EXCAVATE TRIAL PITS PRIOR TO COMMENCING CONSTRUCTION



G GROUND FLOOR
Scale: 1:50



U UNDERPINNING
Scale: 1:50

MEMBER SCHEDULE

ID	MEMBER
P-1	215Lgx100Wdx65Dp CONCRETE PAD STONE
P-2	330Lgx100Wdx65Dp CONCRETE PAD STONE
P-6	770Lgx100Wdx215Dp CONCRETE PAD STONE
T.P.	TRIAL PIT
L-1	CN71A STANDARD DUTY LINTEL
L-2	CG90/100 STANDARD DUTY LINTEL
S-1	150x50 C16 TIMBER JOISTS @400c/c + FULL DEPTH NOGGINS @ BEARING AND MID-SPAN
S-2	175x50 C24 TIMBER RAFTERS @400c/c + FULL DEPTH NOGGINS @ BEARING AND MID-SPAN
S-3	175x50 C24 TIMBER JOISTS @400c/c + FULL DEPTH NOGGINS @ BEARING AND MID-SPAN
S-4	150x50 C24 TIMBER JOISTS @400c/c + FULL DEPTH NOGGINS @ BEARING AND MID-SPAN
D.J.	DOUBLE UP JOISTS TO BE BOLTED TOGETHER USING M12 BOLTS + 75mmØ TOOTHED PLATE CONNECTORS @500c/c

DO NOT SCALE OFF THIS DRAWING

1. GENERAL:
- 1.1. All drawings are to be read in conjunction with "INGealtoir" standard specification. We draw the Contractors particular attention to section 4 of the specification with regards to temporary works design.
- 1.2. All setting out details / dimensions are to be provided by the Architect unless already noted on INGealtoir drawings.
- 1.3. All waterproofing / tanking / insulation / finishes etc. are by others.
- 1.4. All dimensions in millimeters unless stated otherwise.

2. UNDERPINNING METHOD STATEMENT:

Underpinning to be carried out in accordance with ASUC Guidelines on Safe and Efficient Underpinning & Mini Piling Operations.
- 2.1. Excavate formation trench for individual pin, from floor level to underside of existing foundation and clear away spoil into skips. Width of each section generally not exceeding 1m.
- 2.2. At underside of foundation, continue excavation, and head in under wall to back of existing corbel.
- 2.3. Place poling boards and wailings to support sides of excavation as soon as possible if sub grade is unstable.
- 2.4. Remove any deleterious material and/or loose masonry from underside of footing.
- 2.5. Continue excavation to agreed formation level, placing earth works support as work proceeds and bottom out excavation.
- 2.6. Building Inspector and Engineer to inspect excavation to agree depth and satisfactory bearing capacity of formation level.
- 2.7. If areas of structure over are weak or heavily point loaded, build in sacrificial props on pre-cast pads into underpinning.
- 2.8. Immediately before concreting excavation, remove earthwork support and erect shuttering. (note: no further access is allowable into excavation after this point.)
- 2.9. Cast concrete pin to required mix to within 75mm of underside of existing foundation (concrete transported in wheelbarrows).
- 2.10. After minimum 48 hours, dry pack gap between underpinning & existing corbel with 1:3 cement/sharp sand earth damp mix rammed firmly into position.
- 2.11. PROP HEAD OF PINS IN TEMPORARY CASE.
- 2.12. Allow a minimum of 3 days between casting a pin and any adjacent excavation.

3. CONCRETE:
- 3.1. Concrete: Conform to the requirements of BS8110 and those contained in the Concrete Specification.
- 3.2. Max aggregate size 20mm
- 3.3. Concrete to be grade C40 unless stated otherwise.
- 3.4. Maximum free water / cement ratio to be 0.45
- 3.5. Min cement content to be 330kg/m³.
- 3.6. Concrete to be Class 2 sulphate resisting.
- 3.7. Minimum cover to be 40 mm.

3. REINFORCEMENT:
- 3.1. Anchorage and laps of reinforcement shall be according to BS8110-1997 (3.12.8), curtailment of reinforcing bars shall be according to BS8110-1997 (3.12.10)
- 3.2. Minimum cover:
  - 3.2.1. Basement Slab - 40mm

4. MASONRY:
- 4.1. All block work is to be 7N/mm² lightweight block. Unless stated otherwise.
- 4.2. All below ground masonry to be frost resistant. Mortar in all below ground masonry to be designation (ii) 1:¼:4.
- 4.3. All cavity wall ties are to be 'Halfen HTST' type stainless steel ties at 900c/c horiz & 450c/c vert. Unless stated otherwise.

5. STEEL:
- 5.1. All steel sections are to be grade S275 to BS5950.
- 5.2. The Contractor is responsible for maintaining the structural integrity of the steel frame during the construction phase and is to provide any necessary temporary propping to ensure stability during construction.
- 5.3. Fire protection of structural steelwork is to the architect's details.

6. TIMBER
- 6.1. New timber in the works is to be selected structural timber not inferior to grade C16 to BS5268: part 2, unless noted otherwise on the drawings.
- 6.2. Joists & rafters are to be notched no greater than one fifth of overall depth.
- 6.3. 50mm wide full depth soft wood skew nailed noggins are to be inserted at supports and mid-span of all joists & rafter spans.
- 6.4. All timber stud partitions to be supported on doubled joists
- 6.5. All double joists to be bolted together using M12 bolts + 51mmØ toothed plated connectors @ 500c/c.

Rev	Date	By	Comment
-	-	-	-

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Project
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LONDON, N6

Drawing Title
BASEMENT
GROUND FLOOR

Scale	1:50 @ A1	Issued	
By	MFS	Status	PRELIMINARY

Job No.	Dwg No.	Rev
14139	101	-