

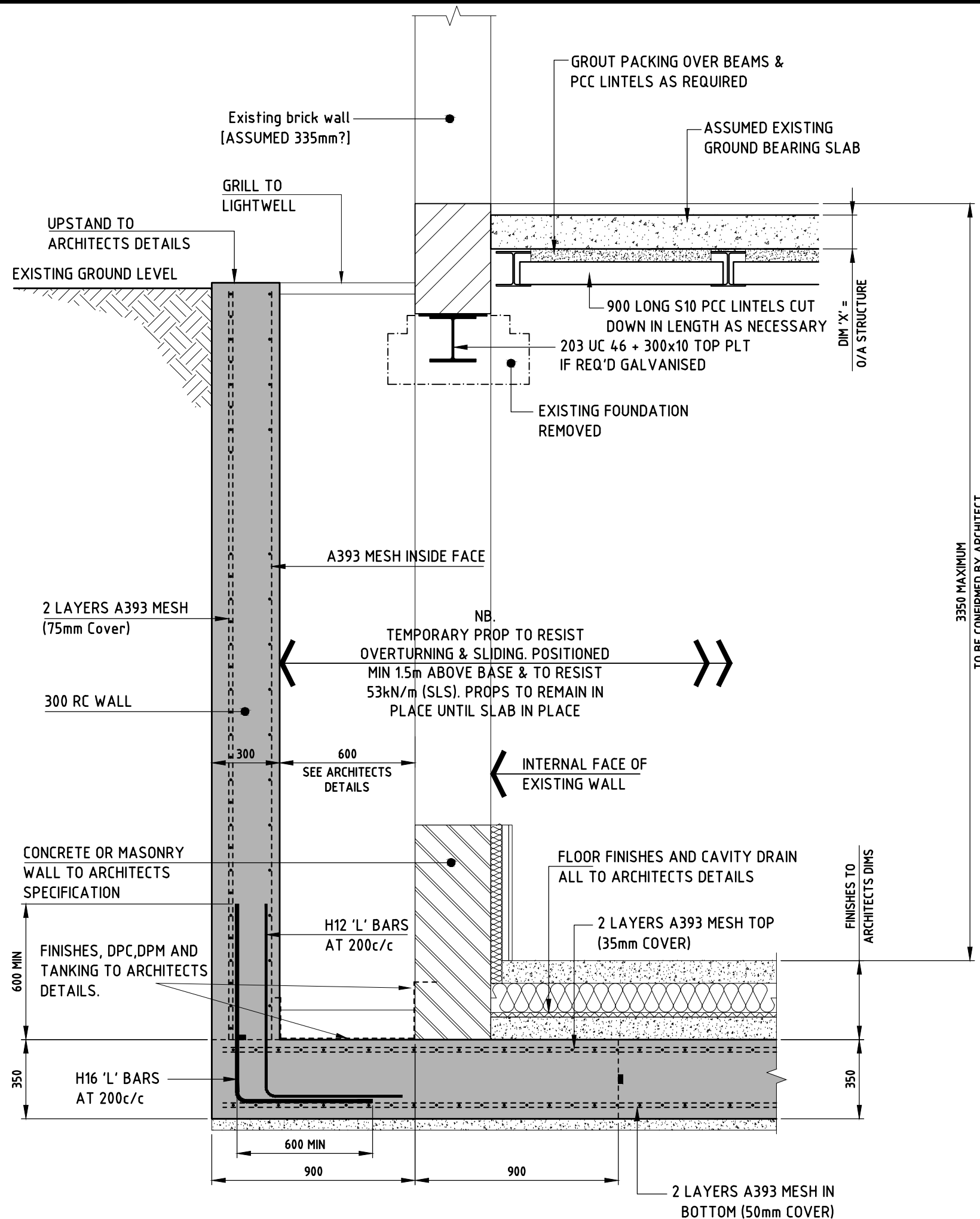
SECTION D - D (party wall)

NOTE:  
REINFORCEMENT AND BASE SIZES IN  
ABEYANCE SUBJECT TO GROUND  
INVESTIGATION REPORT RESULTS

REINFORCEMENT NOTE:  
WALL & FOUNDATION REINFORCEMENT SHALL BE CONTINUOUS.  
IF LOOSE BARS ARE USED TO PROVIDE CONTINUITY THE AREA  
OF LOOSE BARS SHALL NOT BE LESS THAN THE AREA OF  
REINFORCEMENT SPECIFIED. LAPS SHALL BE NOT LESS THAN  
45 TIMES THE SMALLER BAR DIAMETER  
PROVIDE CORNER BARS IN UNDERPINNING WALLS TO ENSURE  
MESH IS HELD IN POSITION DURING CONCRETING.

Rev.	Description.	Date.
  <p><b>Cranbrook Basements</b> T: 020 8551 5555 E: admin@cranbrookbasements.co.uk www.cranbrookbasements.co.uk</p>		
 <p><b>R · H · HORWITZ ASSOCIATES</b> Civil &amp; Structural Engineering Consultants Tel: 01277 356311 Fax: 01277 356683</p>		
<p><b>PROPOSED BASEMENT AT,</b> <b>4 HAMPSTEAD SQUARE, LONDON. NW3 1AB</b></p>		
<p><b>SECTION D-D (PARTY WALL)</b> <b>STRUCTURAL DETAILS : SHEET 8 OF 14</b></p>		
Scale	1:50 @ A3	Date
Engineer	D.C.	Drawn
Client	Dr J Singer	Checked
DRG No.	6514-A3-08	REV.

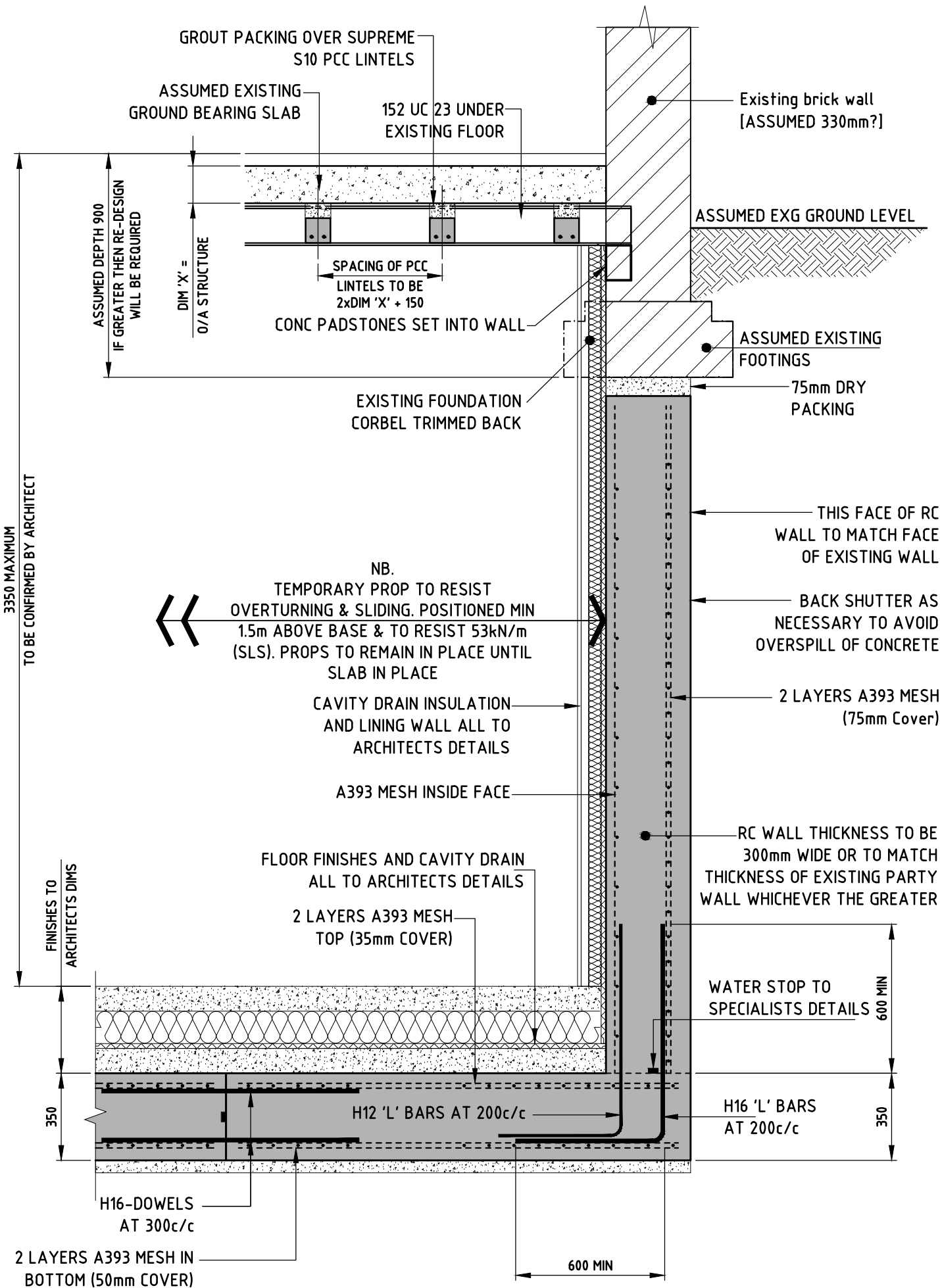
NOTE:  
REINFORCEMENT AND BASE SIZES IN  
ABEYANCE SUBJECT TO GROUND  
INVESTIGATION REPORT RESULTS



SECTION E - E (side elevation light well)

REINFORCEMENT NOTE:  
WALL & FOUNDATION REINFORCEMENT SHALL BE CONTINUOUS. IF LOOSE BARS ARE USED TO PROVIDE CONTINUITY THE AREA OF REINFORCEMENT SHALL NOT BE LESS THAN THE AREA OF REINFORCEMENT SPECIFIED. LAPS SHALL BE NOT LESS THAN 45 TIMES THE SMALLER BAR DIAMETER  
PROVIDE CORNER BARS IN UNDERPINNING WALLS TO ENSURE MESH IS HELD IN POSITION DURING CONCRETING.

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<b>PROPOSED BASEMENT AT,</b> <b>4 HAMPSTEAD SQUARE, LONDON. NW3 1AB</b>		
<b>SECTION E-E (SIDE ELEVATION LIGHT WELL)</b> <b>STRUCTURAL DETAILS : SHEET 9 OF 14</b>		
Scale	1:50 @ A3	Date
Engineer	D.C.	Drawn
Client	Dr J Singer	Checked
DRG No.	6514-A3-09	REV.

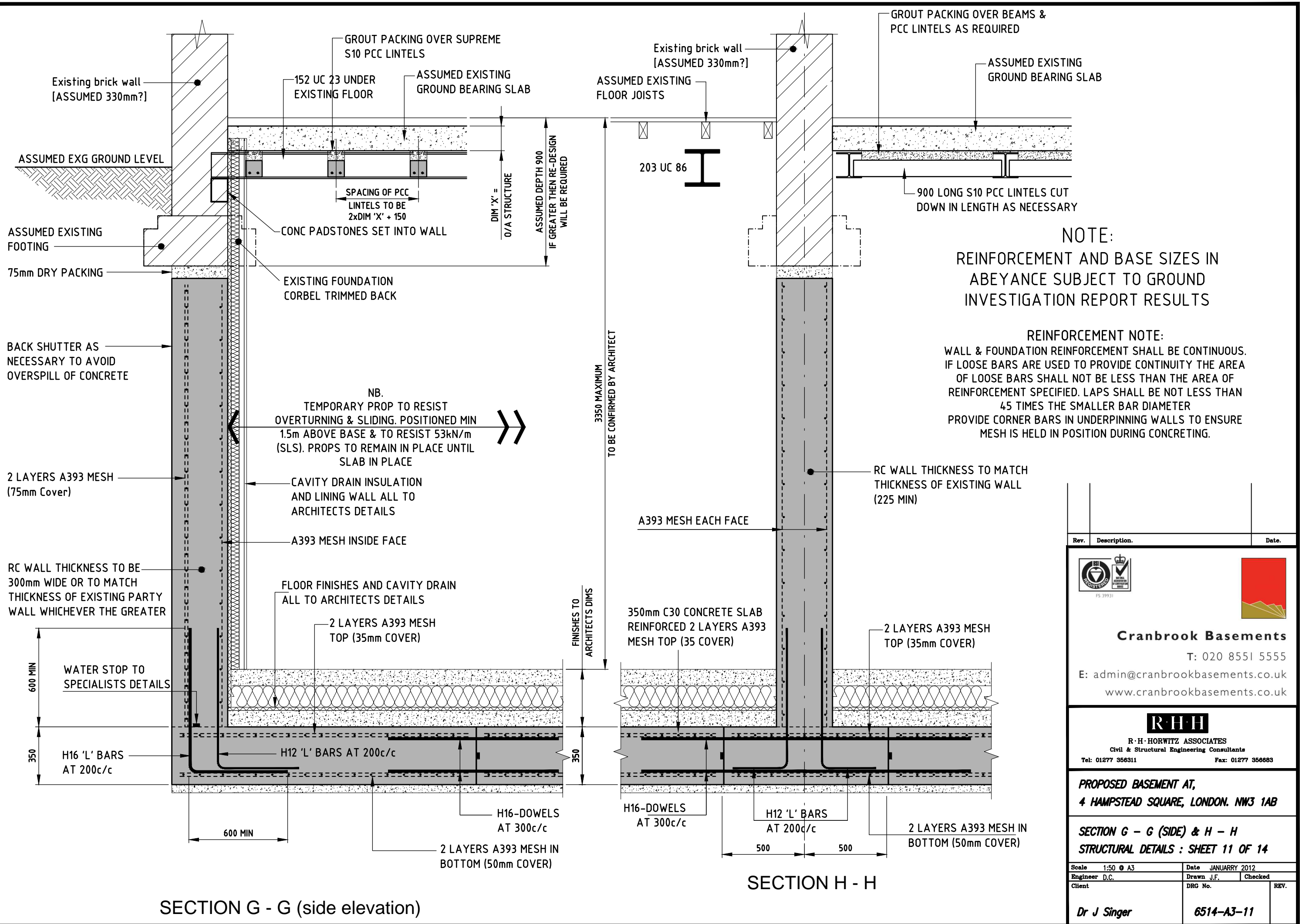


SECTION F - F (alley side & front)

NOTE:  
REINFORCEMENT AND BASE SIZES IN  
ABEYANCE SUBJECT TO GROUND  
INVESTIGATION REPORT RESULTS

REINFORCEMENT NOTE:  
WALL & FOUNDATION REINFORCEMENT SHALL BE CONTINUOUS.  
IF LOOSE BARS ARE USED TO PROVIDE CONTINUITY THE AREA  
OF LOOSE BARS SHALL NOT BE LESS THAN THE AREA OF  
REINFORCEMENT SPECIFIED. LAPS SHALL BE NOT LESS THAN  
45 TIMES THE SMALLER BAR DIAMETER  
PROVIDE CORNER BARS IN UNDERPINNING WALLS TO ENSURE  
MESH IS HELD IN POSITION DURING CONCRETING.

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<p><b>PROPOSED BASEMENT AT,</b> <b>4 HAMPSTEAD SQUARE, LONDON. NW3 1AB</b></p>		
<p><b>SECTION F-F (ALLEY SIDE &amp; FRONT)</b> <b>STRUCTURAL DETAILS : SHEET 10 OF 14</b></p>		
Scale	1:50 @ A3	Date
Engineer	D.C.	Drawn
Client	Dr J Singer	Checked
DRG No.	6514-A3-10	REV.



Rev.	Description.	Date.




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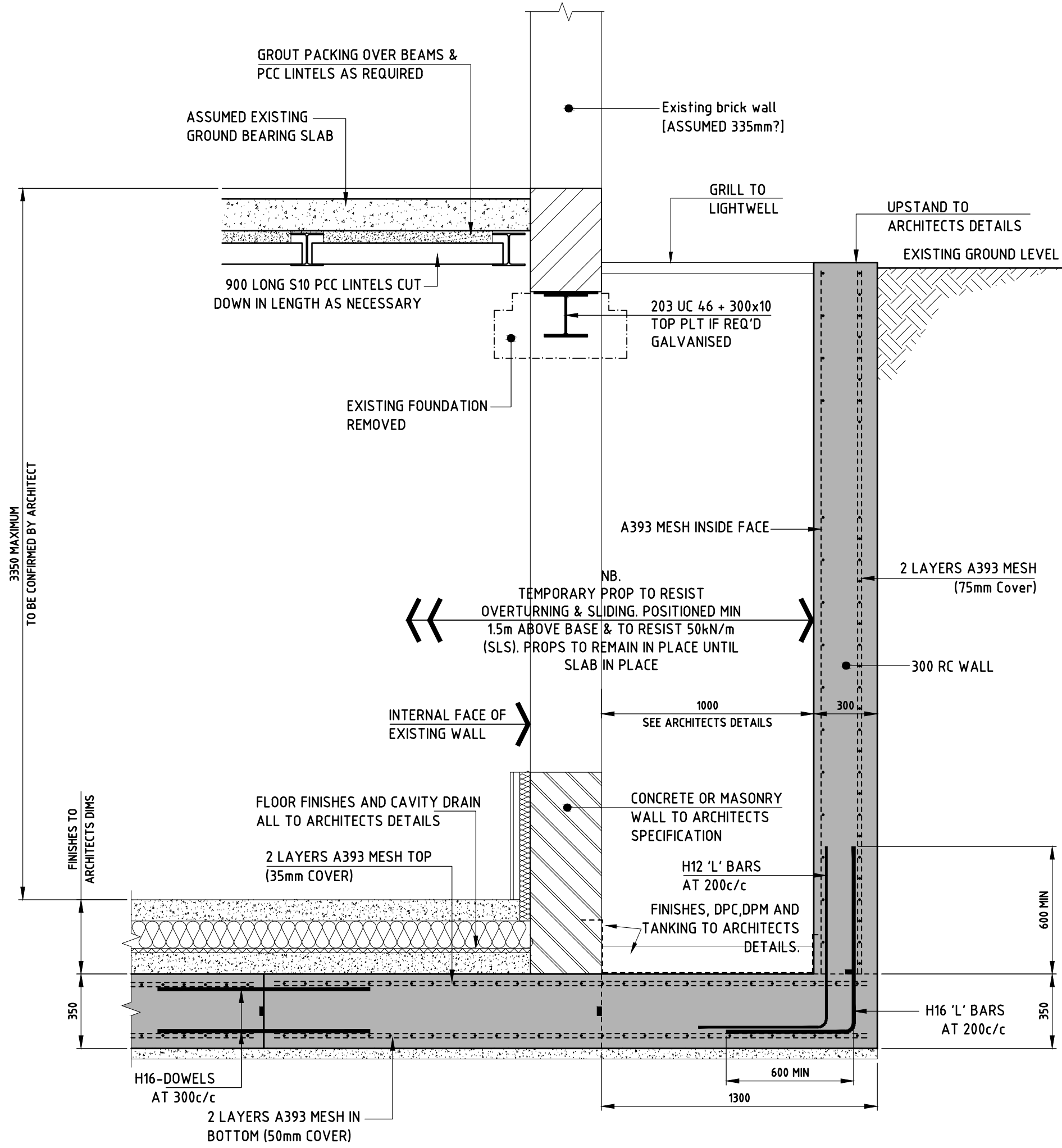
**PROPOSED BASEMENT AT,**  
**4 HAMPSTEAD SQUARE, LONDON. NW3 1AB**

**SECTION G - G (SIDE) & H - H**  
**STRUCTURAL DETAILS : SHEET 11 OF 14**

Scale 1:50 @ A3	Date JANUARY 2012
Engineer D.C.	Drawn J.F. Checked
Client	DRG No. REV.

*Dr J Singer* 6514-A3-11

NOTE:  
REINFORCEMENT AND BASE SIZES IN  
ABEYANCE SUBJECT TO GROUND  
INVESTIGATION REPORT RESULTS



SECTION J - J (front elevation light well)

REINFORCEMENT NOTE:  
WALL & FOUNDATION REINFORCEMENT SHALL BE CONTINUOUS.  
IF LOOSE BARS ARE USED TO PROVIDE CONTINUITY THE AREA  
OF LOOSE BARS SHALL NOT BE LESS THAN THE AREA OF  
REINFORCEMENT SPECIFIED. LAPS SHALL BE NOT LESS THAN  
45 TIMES THE SMALLER BAR DIAMETER  
PROVIDE CORNER BARS IN UNDERPINNING WALLS TO ENSURE  
MESH IS HELD IN POSITION DURING CONCRETING.

Rev.	Description.	Date.



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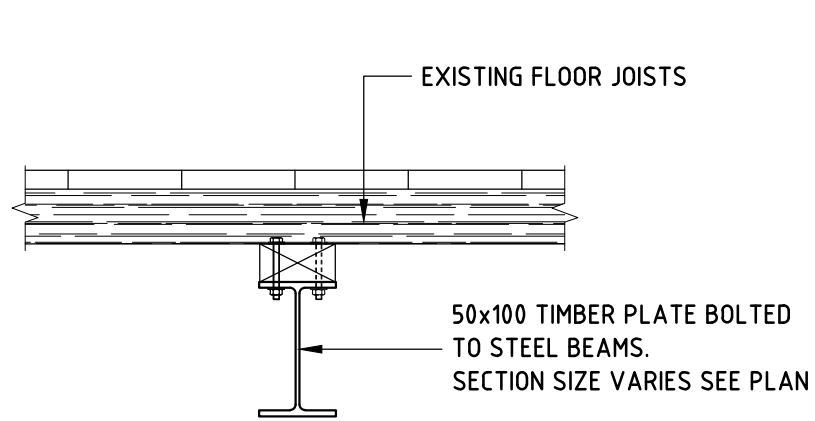


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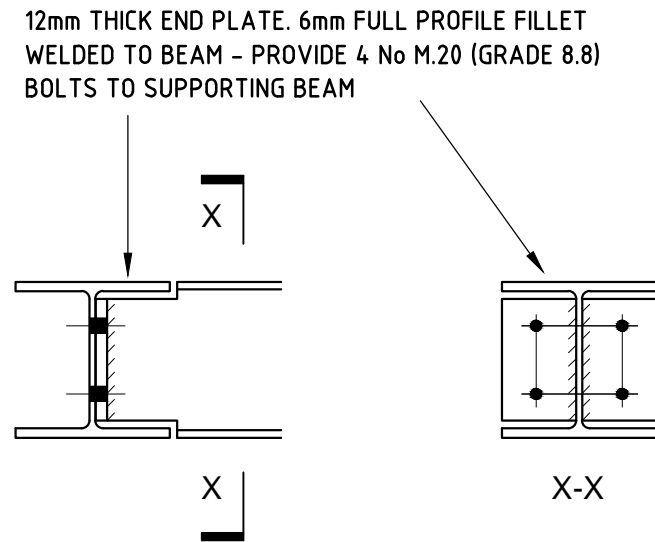
**PROPOSED BASEMENT AT,  
4 HAMPSTEAD SQUARE, LONDON. NW3 1AB**

**SECTION J-J (FRONT ELEVATION LIGHT WELL)  
STRUCTURAL DETAILS : SHEET 12 OF 14**

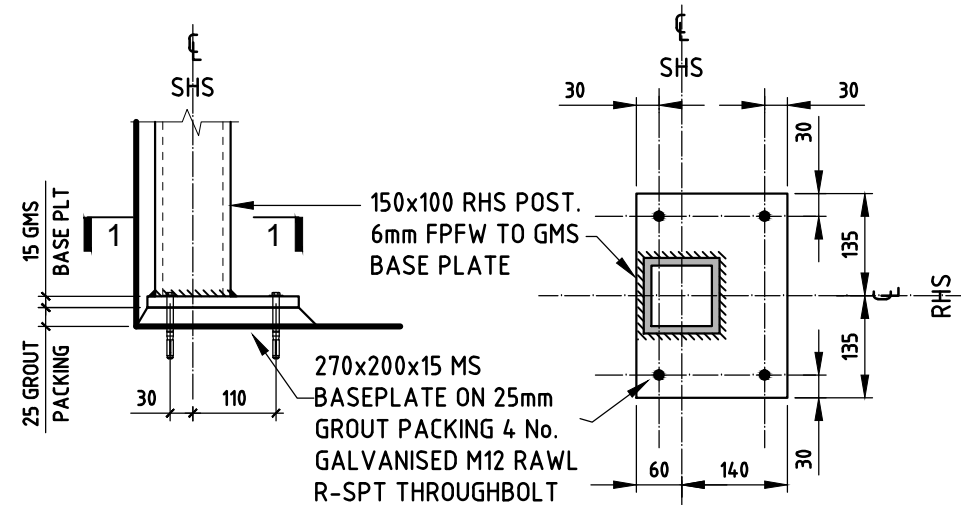
Scale 1:50 @ A3	Date JANUARY 2012
Engineer D.C.	Drawn J.F. Checked
Client	DRG No. REV.
<i>Dr J Singer</i>	<b>6514-A3-12</b>



TYPICAL TIMBER PLATE TO STEEL BEAM CONNECTION

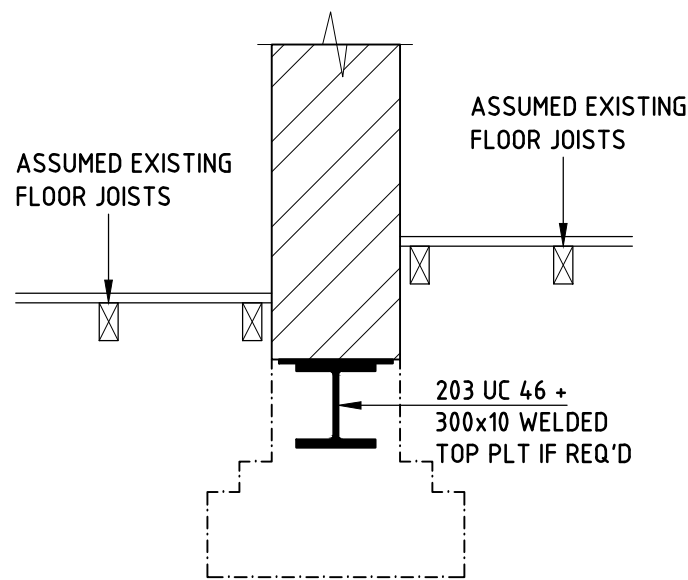


TYPICAL STEEL BEAM TO BEAM CONNECTION

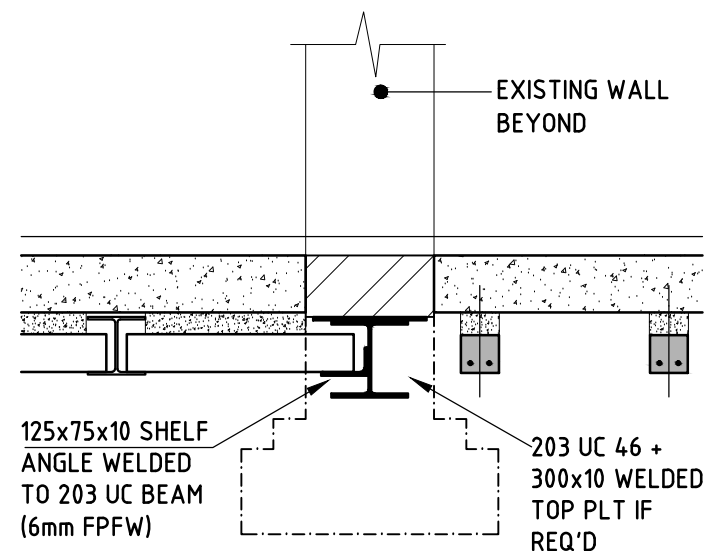


BASE PLATE DETAIL  
100x100x8.0 RHS  
5 No THUS

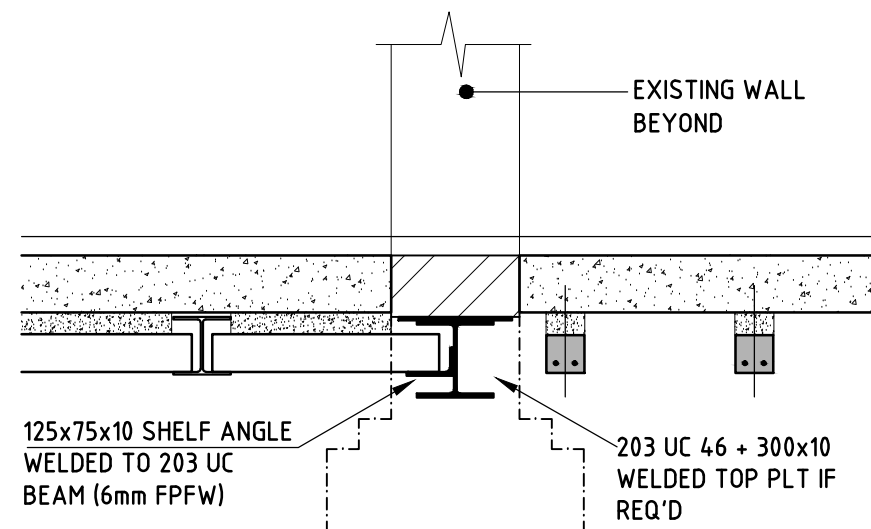
PLAN 1 - 1



SECTION 1 - 1



SECTION 2 - 2



SECTION 3 - 3

Rev.	Description.	Date.



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PROPOSED BASEMENT AT,  
4 HAMPSTEAD SQUARE, LONDON. NW3 1AB

STEELWORK DETAILS AND SECTIONS 1-1 ETC  
STRUCTURAL DETAILS : SHEET 13 OF 14

Scale 1:50 @ A3	Date JANUARY 2012
Engineer D.C.	Drawn J.F. Checked
Client	DRG No. REV.

Dr J Singer

6514-A3-13

**GENERAL NOTES:-**

1. THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND SPECIALIST DRAWINGS WHICH MUST BE REFERRED TO FOR VERIFICATION OF LEVELS AND SETTING OUT.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE
3. DO NOT SCALE THIS DRAWING
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROUND INVESTIGATION REPORTS.
5. THE MAIN CONTRACTOR SHALL BE RESPONSIBLE FOR EXECUTING ALL NECESSARY TEMPORARY WORKS INCLUDING DESIGN WHICH SHALL BE CARRIED OUT BY A SUITABLY QUALIFIED ENGINEER WITH ADEQUATE INSURANCES FOR UNDERTAKING SUCH WORKS. THE MAIN CONTRACTOR SHALL PROVIDE ALL NECESSARY INSURANCE COVER FOR HIS WORKS AND IS TO PROVIDE TO NECESSARY PARTIES FULL METHOD STATEMENTS FOR EXECUTION OF ALL WORKS.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE EXISTING BUILDING AND ADJOINING PROPERTY TOGETHER WITH EXCAVATIONS AND EARTHWORKS AND MUST TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD THIS THROUGHOUT EXECUTION OF THE WORKS.
7. ADEQUATE SHORING SHALL BE INSTALLED DURING THE WORKS TO ENSURE THE STABILITY OF THE STRUCTURES. SUCH SHORING SHALL BE ADEQUATELY FOUNDED
8. ANY DEVIATION FROM THE DETAILS SHOWN MUST BE NOTIFIED TO THE ENGINEER BY THE CONTRACTOR IN WRITING BEFORE BEING CARRIED OUT.
9. THE LOCAL AUTHORITY'S BUILDING INSPECTOR AND THE ENGINEER ARE TO BE INFORMED BY THE CONTRACTOR IN WRITING AT LEAST 48 HOURS PRIOR TO THE WORKS STARTING ON SITE. THEIR AGREEMENT MUST BE OBTAINED BEFORE WORK CAN COMMENCE.
10. THE CONTRACTOR MUST MAINTAIN ANY EXISTING SERVICES REQUIRED TO THE ADJOINING PROPERTY AS NECESSARY.
11. THE CAVITY DRAIN TO WALLS AND SLAB TO BE IN ACCORDANCE WITH ARCHITECTS AND SPECIALISTS DETAILS INCLUDING DRAINAGE AND PUMPS. ALL TO SPECIALISTS DESIGN AND DETAILS.
12. A FULL CONDITIONAL AND PHOTOGRAPHIC SURVEY IS TO BE UNDERTAKEN TO THE PROPERTY AND ADJACENT PROPERTIES PRIOR TO THE COMMENCEMENT OF ANY WORKS.
13. THE CONTRACTOR IS TO DESIGN, SPECIFY AND PROVIDE ALL NECESSARY TEMPORARY WORKS INCLUDING THE PROPPING AND NEEDLING OF ALL EXISTING WALLS AND FOUNDATIONS ( CONTRACTOR TO NOTE THAT THE EXISTING FOUNDATIONS MAY BE FRAGILE, LOOSE AND BECOME HAZARDOUS - SUITABLE MEASURES AND SAFE WORKING PRACTICES ARE TO BE EMPLOYED) THE CONTRACTOR IS TO PROVIDE ALL LATERAL PROPPING OF THE UNDERPIN SECTIONS TO SUPPORT THE RETAINED SOIL BEHIND, STRUCTURES ABOVE AND ADJACENT AND THE PUBLIC FOOTPATH AND HIGHWAY.
14. ALL UNDERPINNING WALL STEMS AND BASE SECTIONS ARE TO BE DOWELLED TOGETHER WITH H12 BARS AT 150 CENTRES (LENGTH OF BARS 600MM)
15. TRIAL PITS ARE TO BE DUG PRIOR TO THE COMMENCEMENT OF THE MAIN WORKS TO EXPOSE THE EXISTING FOUNDATIONS AND ANY POSSIBLE HISTORIC UNDERPINNING WHICH MAY EXIST - THE DESIGN AND DETAILS OF THE PROPOSED UNDERPINNING MAY NEED TO BE REVISED TO SUIT AND SHOULD BE REPORTED IN WRITING TO THE ENGINEER PRIOR TO ANY MODIFICATION BEING AGREED.
16. REFER TO ARCHITECTS SPECIFICATION FOR ALL DAMP PROOFING DETAILS INCLUDING DPC, DPM'S & BASEMENT WATER PROOFING.
17. ALL WORKMANSHIP & MATERIALS USED IN RESPECT OF THE WORKS SHALL BE IN ACCORDANCE WITH THE CURRENT BRITISH STANDARDS AND CODES OF PRACTICE WHERE RELEVANT TO THIS PROJECT.

**Superstructure Notes:-**

- A. STEELWORK TO BE MILD STEEL GRADE 43 IN ACCORDANCE WITH BS 4360 FOR QUALITY AND BS 5950 FOR DESIGN, DETAIL AND WORKMANSHIP.
- B. ALL STEELWORK IS TO BE CLEANED TO SWEDISH 2 $\frac{1}{2}$  SA AND PRIMED WITH MINIMUM 75 MICRON DFT. WORKS APPLIED APPROVED PRIMER.
- C. ALL BEAM TO BEAM CONNECTIONS SHALL BE 12mm WELDED END PLATES (6mm FPFW) 4 No. M20 (8.8) BOLTS. OR SIMILAR APPROVED.
- D. FIRE PROTECTION TO ALL STEELWORK TO BE IN ACCORDANCE WITH ARCHITECTS DETAILS
- E. PADSTONES TO BE C50 GRADE CONCRETE WITH A MAX. 10mm AGGREGATE SIZE OR SOLID CLASS 'A' ENGINEERING BRICKWORK IF SPECIFIED.
- F. ALL NEW STRUCTURAL TIMBER TO BE GRADE C24 TO BS 5268 AND ALL ENDS TREATED ETC TREATED WITH AN APPROVED TIMBER PRESERVATIVE
- G. 30x5 GMS STRAPS TO BE PROVIDED AT 1.25m CENTRES TO ALL FLOORS TO COMPLY WITH PART A3 DISPROPORTIONATE COLLAPSE SECTION 5c. FOR CLASS 2A BUILDINGS.
- H. BRICKWORK TO BE CONSTRUCTED IN CLASS 'A' SOLID ENGINEERING BRICKWORK WITH A MINIMUM CRUSHING STRENGTH OF 35 N/mm<sup>2</sup>. BLOCKWORK TO HAVE A MINIMUM CRUSHING STRENGTH OF 3.5 N/mm<sup>2</sup>. ALL UNLESS NOTED OTHERWISE ALL MASONRY SHALL BE LAID IN CLASS (iii) MORTAR EXCEPT BELOW DPC CLASS (i).
- I. ANY CUTTING AWAY OF EXISTING BRICKWORK TO BE CARRIED OUT CAREFULLY TO REDUCE DAMAGE TO SURROUNDING AREAS TO A MINIMUM.
- J. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE EXISTING STRUCTURE AND ADJOINING PROPERTIES DURING EXECUTION OF THE WORKS AND MUST TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD THIS STABILITY.

Rev.	Description.	Date.
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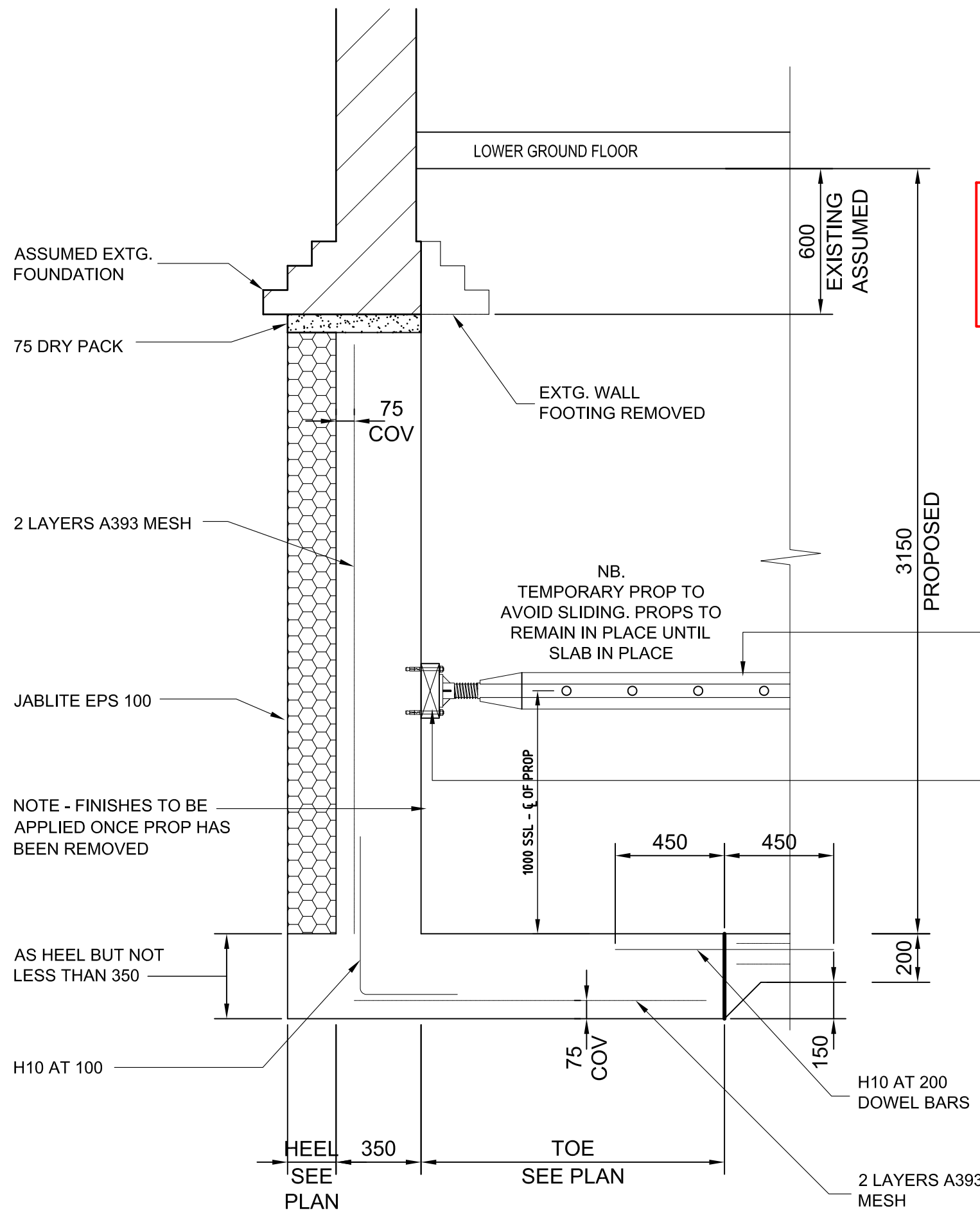

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**PROPOSED BASEMENT AT,  
 4 HAMPSTEAD SQUARE, LONDON. NW3 1AB**

**GENERAL & STEELWORK NOTES  
 STRUCTURAL DETAILS : SHEET 14 OF 14**

Scale	NO SCALE	Date	JANUARY 2012
Engineer	D.C.	Drawn	J.F.
Client		Checked	
		DRG No.	REV.
<i>Dr J Singer</i>		<b>6514-A3-14</b>	



**NOTE:-**  
 ALL NOTES ARE GENERIC FOR  
 INDICATIVE PURPOSES. PLEASE  
 REFER TO STRUCTURAL  
 ENGINEERS DETAILS & NOTES  
 FOR DESIGN.

PROPRIETARY MABEY OR  
 SIMILAR MASS 25  
 SUPERPROP AT 2m C/C,  
 FIXED TO TIMBER  
 WALLING WITH 75mm  
 COACH BOLTS

75 X 225mm TIMBER  
 WALLING FIXED  
 SECURELY TO FACE OF  
 UNDER PIN SECTION  
 USING M12 RAWL BOLTS  
 @ 1.2m C/C

NOTE - FINISHES TO BE  
 APPLIED ONCE PROP HAS  
 BEEN REMOVED

**TYPICAL SECTION INDICATING  
 UNDERPIN SUPPORT PROPS**

No.	Date	Amendment	Initials
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Client : **Typical**

Project : **Typical Detail**

Drawing : **Typical Underpinning Detail**

Scale : 1:20 @ A3

Status : **PRELIMINARY**

Date : 22 June 2009

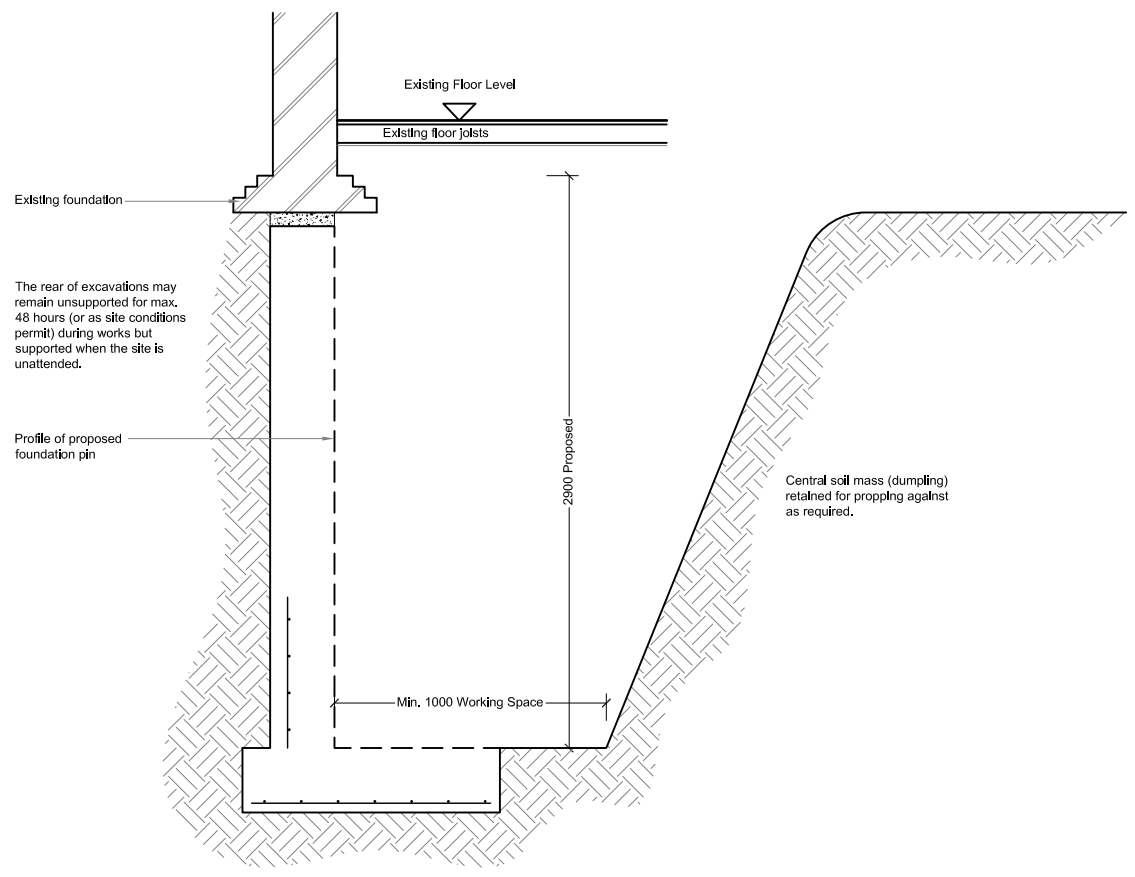
Dwg No : 0000 - 1010



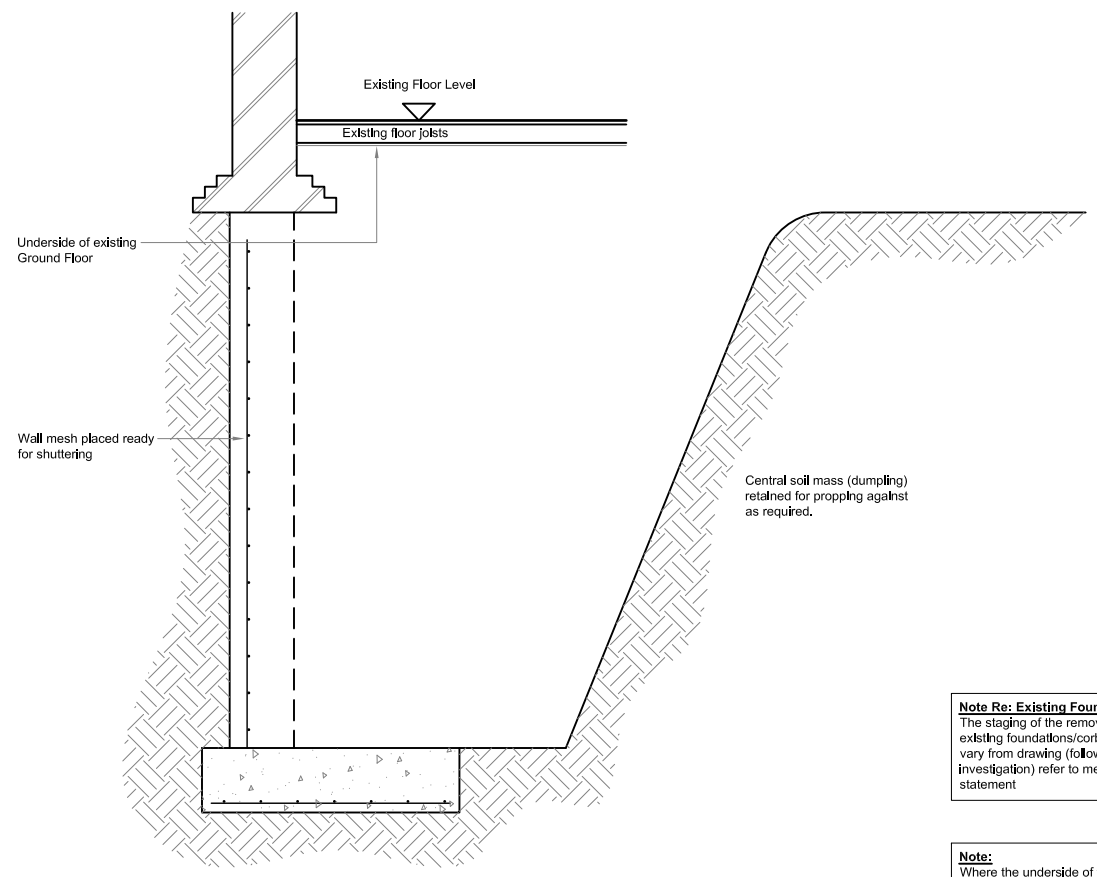
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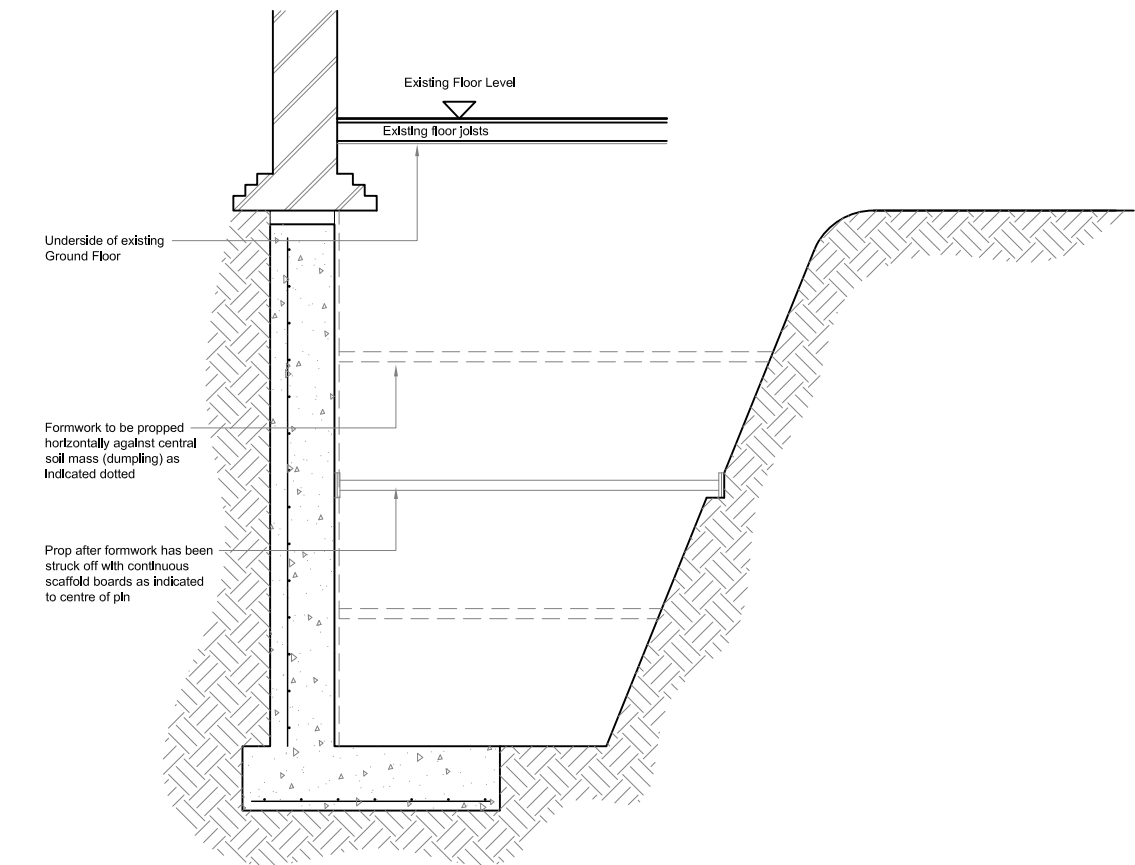
Stage 1 - Clay Soils



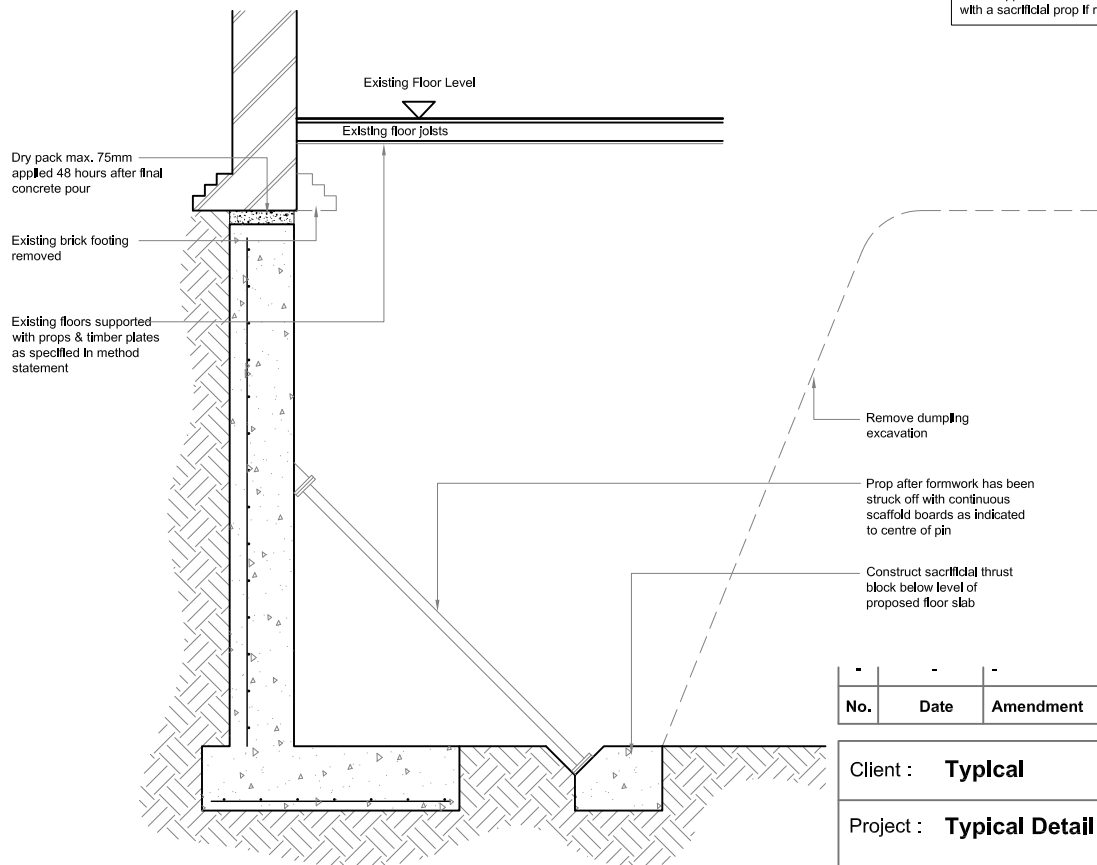
Stage 2 - Clay Soils

**Note Re: Existing Foundations**  
The staging of the removal of existing foundations/corbels may vary from drawing (following site investigation) refer to method statement

**Note:**  
Where the underside of the existing footings is found to be unstable i.e. in the case of loose brickwork as opposed to concrete foundations, then the undersides to be supported as necessary with a sacrificial prop if required



Stage 3 - Clay Soils



Stage 4 - Clay Soils

Typical Propping Details

No.	Date	Amendment	Initials

Client : **Typical**

Project : **Typical Detail**

Drawing : **Typical Basement Propping Details**

Scale : **N.T.S @ A3**      Status : **PRELIMINARY**      Rev : **-**  
 Date : **09 Oct 2009**      Dwg No : **0000 / 1015**



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# **APPENDIX C**

*BGS Borehole Records*