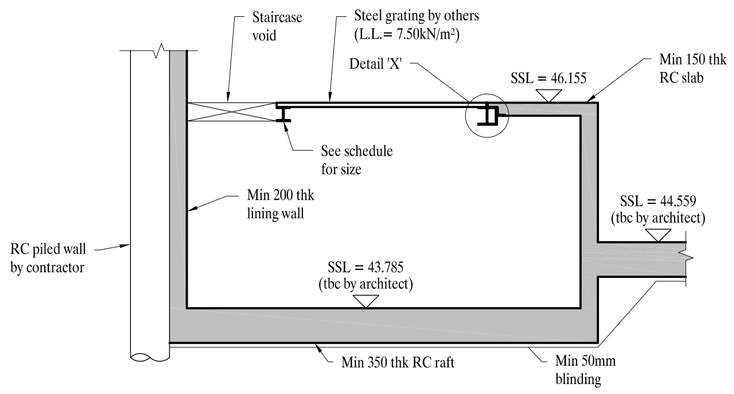
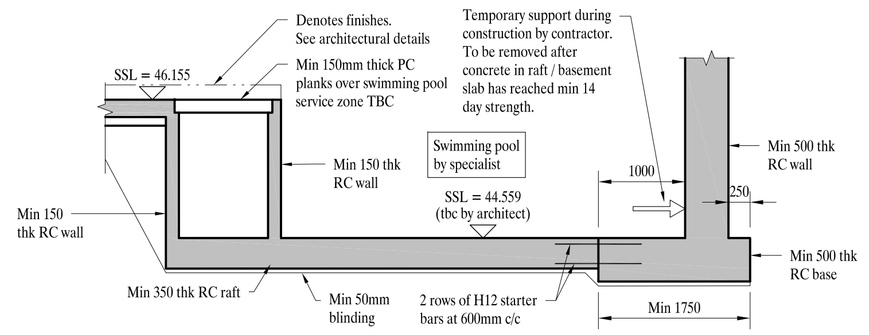


SECTION A - A
Scale 1:50



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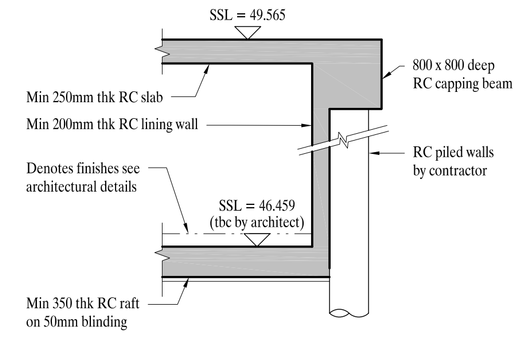

SECTION C - C
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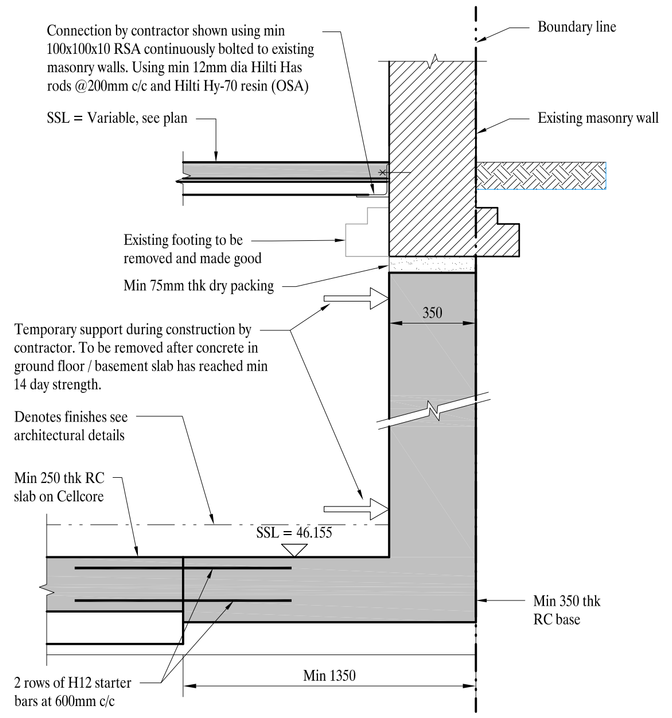
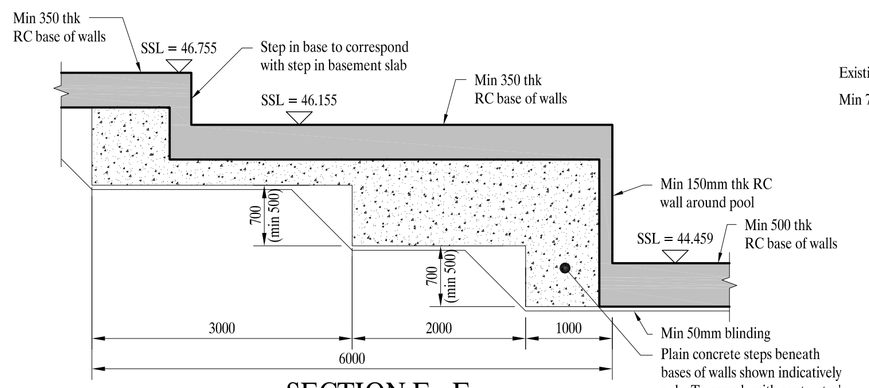


SECTION D - D (TYPICAL)
Scale 1:20



SECTION E - E
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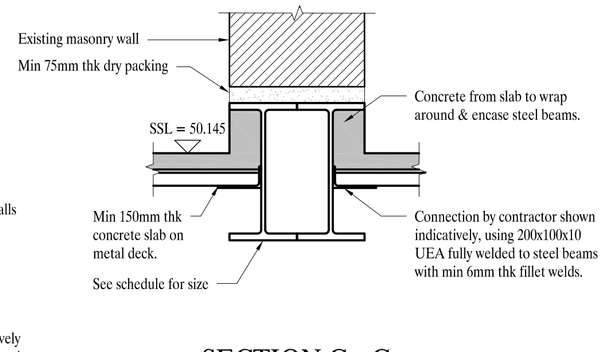
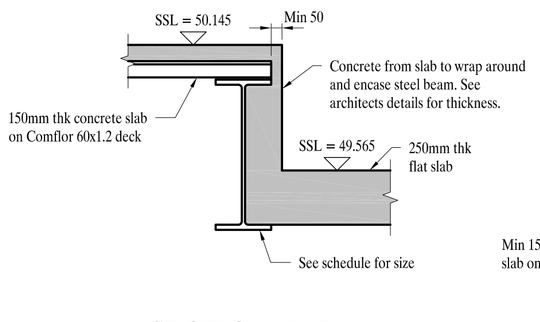
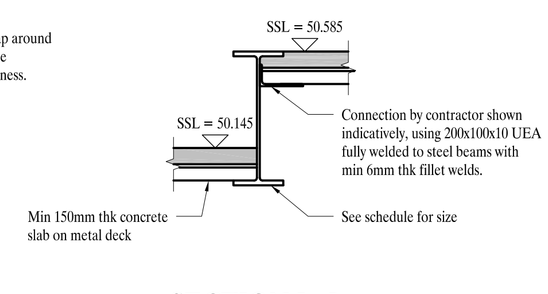


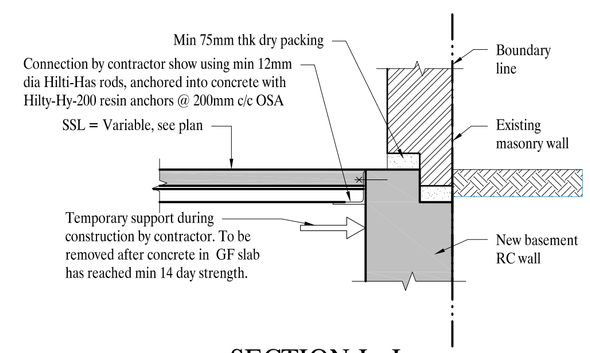
SECTION G - G
Scale 1:20



SECTION H - H
Scale 1:20



SECTION I - I
Scale 1:20



SECTION J - J
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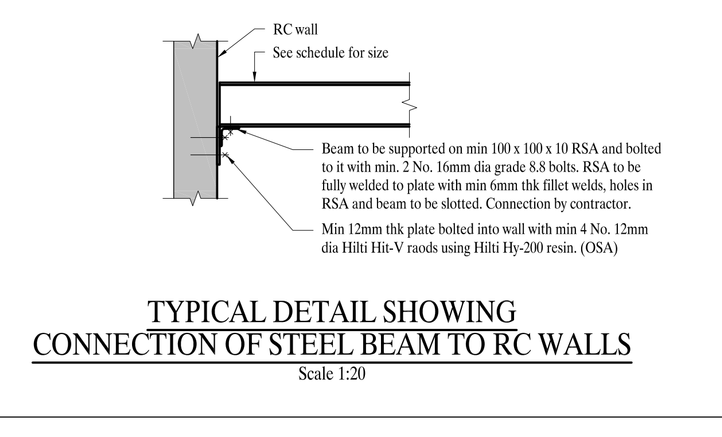
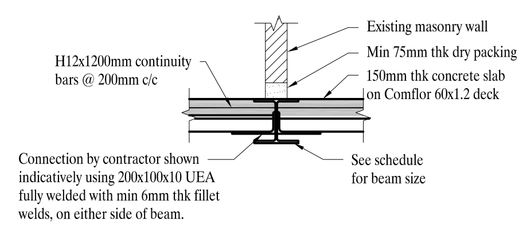
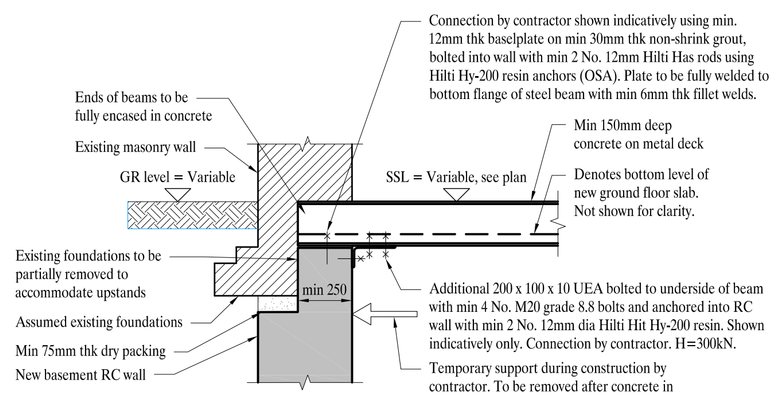


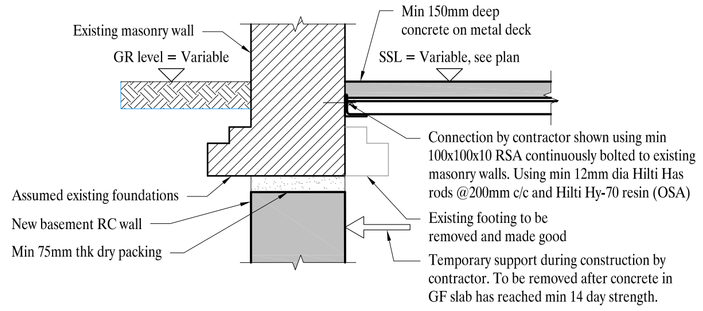
TYPICAL SECTION THROUGH NEW GROUND FLOOR SLAB SUPPORTING SLAB ONLY
Scale 1:20



TYPICAL SECTION THROUGH NEW GROUND FLOOR SLAB SUPPORTING EXISTING WALLS
Scale 1:20

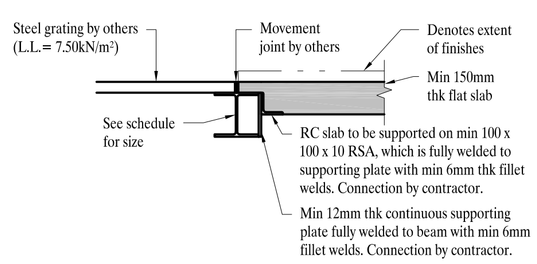


TYPICAL SUPPORT DETAIL OF STEEL BEAMS ON RC WALLS
Scale 1:20



TYPICAL SUPPORT DETAIL OF NEW GROUND FLOOR SLAB ON NEW BASEMENT WALLS
Scale 1:20

TYPICAL DETAIL SHOWING CONNECTION OF STEEL BEAM TO RC WALLS
Scale 1:20



DETAIL 'X'
Scale 1:20

Notes :

1 General
All Structural Engineering drawings are to be read with the specification and with all relevant Architects drawings and specifications.

Do not scale from any Structural Engineers drawing. All dimensions are in millimetres and levels in metres.

All waterproofing (DPM & DPC) works to Architects details.

All fire protection works to Architects details unless specifically noted otherwise.

Abbreviations:-

SSL - Structural slab level	FFL - Finished floor level
CS - Column Stops	CC - Column Capped
UNO - Unless Noted Otherwise	OSA - Or Similar Approved

The Contractor is responsible for the design, installation and maintenance of all necessary temporary works to ensure the strength and stability of the building throughout the course of the works. Drawings and calculations detailing all temporary works shall be submitted to the Engineer for comment prior to commencement of the works.

The existing structural information shown on these drawings is based on visual inspection of the building and upon limited opening up works. All details of the existing construction are subject to confirmation by the Contractor during the works on site.

2 Steel
All steelwork to be grade S275 to BS EN 10025. (UNO)

The steel structure is execution Class 2 (EXC2). It is highly recommend that the Steel Contractor(s) / Fabricator(s) appointed for the project are members of the BCSA. Otherwise, the Main Contractor or Client should complete the detailed design for those elements shown on the design drawings and produce co-ordinated drawings showing all connection details etc.

The steelwork fabricator shall produce and submit two copies of dimensioned fabrication drawings to the Engineer for comment. The Engineer requires ten working days to return and comment.

All bolted connections are to include a minimum of two M16 bolts per member unless specifically indicated otherwise on details. All connection details to be designed by Contractor.

All bolts are to be grade 8.8 sheradized to BS 4921, class1. All bolts, nuts and washers are to be to BS 5950: Part 2 clause 2.2. Washers are to be placed beneath rotated item.

All welds to be minimum 6mm leg length continuous fillet welds unless specifically noted otherwise.

All steelwork coatings to be as specification and below. Coatings to be provided by Sherwin Williams Protective & Marine Coatings or similar approved. All coatings to be light grey in colour; red oxide is NOT to be used.

LOCATION	CATEGORY	PAINT SYSTEM
Internal damp/cavities	C2 - Low	C400V3 Exoxy Zinc Phosphate coating (125 microns DFT) - Functional
Internal dry	C1 - Very Low	C400V3 Exoxy Zinc Phosphate coating (75 microns DFT) - Functional
External	C4 - High	Galvanized in accordance with BS EN ISO 1461 to achieve a minimum mean coating thickness of 140 microns

3 Concrete
Concrete to be in accordance with BS EN 206-1 and as follows :
Blinding - C16/20
Mass concrete - C25/30
Reinforced concrete - C32/40

4 Masonry
All loadbearing blockwork to have a minimum characteristic strength of 7.3N/mm². All loadbearing brickwork is to have a minimum characteristic strength of 20N/mm².

5 Timber
All timber members to be grade C16 to BS EN 1995 unless noted otherwise. Timber to be pressure impregnated with preservative and cut ends brush treated.

6 Padstones
All padstones to be concrete, min grade C20/25 using max 20 mm aggregate. All steel beams supported on padstones to bolted to padstones with min 2 No. Hilti M10 HAS rod with HY 200 resin. (O.S.A.)

Rev.	Date	Drawn	Amendment
01	16.03.15	HS	Issued for Construction
-	05.02.15	HS	Issued for Information

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WHITEHALL PARK

17 WADHAM GARDENS
LONDON NW3 3DN

SUBSTRUCTURE SECTIONS

Status : CONSTRUCTION

Scales : As noted @ A1			Date : Nov 14
Drawn : HS	Engineer : CC		Checked : SPJ
Drawing No. L1802 21			Revision 01