

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:-
SBL - Structural slab level
CS - Column Shaps
C/C - Column Capped
UNO - Unless Stated Otherwise (OSA - Or similar Approved)

The Contractor is responsible for the design, installation and maintenance of all access 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 work. 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 or BS EN 10025 (UKN)

The steel structure is execution Class 2 (EXC2). It is highly recommended that the S275 or BS EN 10025 (UKN) is supported by the Engineer's complete the detailed design for these dimensions shown on the design drawings and provide co-ordinated drawing showing all connection details etc.

The steelwork fabricator shall produce and submit two copies of dimensional fabrication drawing 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 strengthened to BS 9921 class 1. All bolts and nut washers are to be to BS 9920 Part 2 class 2.2. Washers are to be plated beneath rotated nuts.

All walls to be a minimum 100mm firm light continuous filled walls 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 dampers	C2 - Low	C400/3 Epoxy Zinc Phosphate coating (2 coats) minimum 170µm functional coating (75 microns DFT) - Functional
Internal dry	C1 - Very Low	C400/3 Epoxy Zinc Phosphate coating (2 coats) minimum 170µm functional coating (75 microns DFT) - Functional
External	C4 - High	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 :
Binding - C16/20
Mass concrete - C25/30

Reinforced concrete - C32/40

4 Masonry
All loadbearing blockwork to have a minimum characteristic strength of 7.5N/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 fresh treated.

6 Padstones
All padstones to be concrete, min grade C20/25 using max 20mm aggregate. All steel beams supported on padstones to be bolted to padstones with min 2 No. Hilti M10 HHS nut with HY 200t resin (OSA).

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WHITEHALL PARK
17 WADHAM GARDENS
LONDON NW3 3DN
GA OF FIRST FLOOR

Status :	CONSTRUCTION REVIEW	Date :	Feb 15
Scales :	As noted @ 1:20		
Drawn :	HS	Engineer :	TF
Checked :		SPJ	
Drawing No.	L1802.11	Revision	-

BEAM	TYPE	SHEAR (kN)	SPLICE MOMENT (kNm)	END MOMENT (kNm)	GRADE	Comments
B1	203 x 203 UC 32	-	-	-	S275	Cranked
B2	152 x 152 UC 37	-	-	-	S275	-
B3	152 x 152 UC 37	-	-	-	S275	-
B4	254 x 254 UC 73	-	-	-	S275	Cranked
B5	254 x 254 UC 73	-	-	-	S275	-
B6	203 x 203 UC 46	-	-	-	S275	-
B7	203 x 203 UC 46	-	-	-	S275	-
MB1	203 x 203 UC 46	-	-	-	S275	-
MB2	152 x 152 UC 37	-	-	-	S275	-
MB3	203 x 203 UC 46	-	-	-	S275	-
MB4	254 x 254 UC 73	-	-	-	S275	-
RB1	203 x 203 UC 46	-	-	-	S275	-
RB2	200 x 90 PFC 30	-	-	-	S275	-

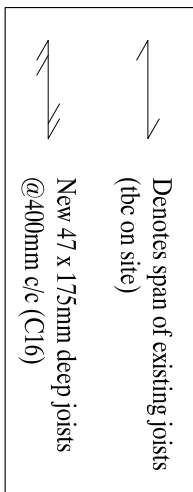
(All shear and moment values are ultimate limit state and if a value is not stated, the minimum shear value should be 100kN and the moment value should be 15kNm)

COLUMN	TYPE	AXIAL LOAD (kN)	BASE MOMENT (kNm)	GRADE
MFC1	152 x 152 UC 37	-	-	S275
MFC2	203 x 203 UC 46	-	-	S275
MFC3	203 x 203 UC 46	-	-	S275
MFC4	C18 210 x 1 x 8	-	-	S275

(All loads are factored ultimate limit state)

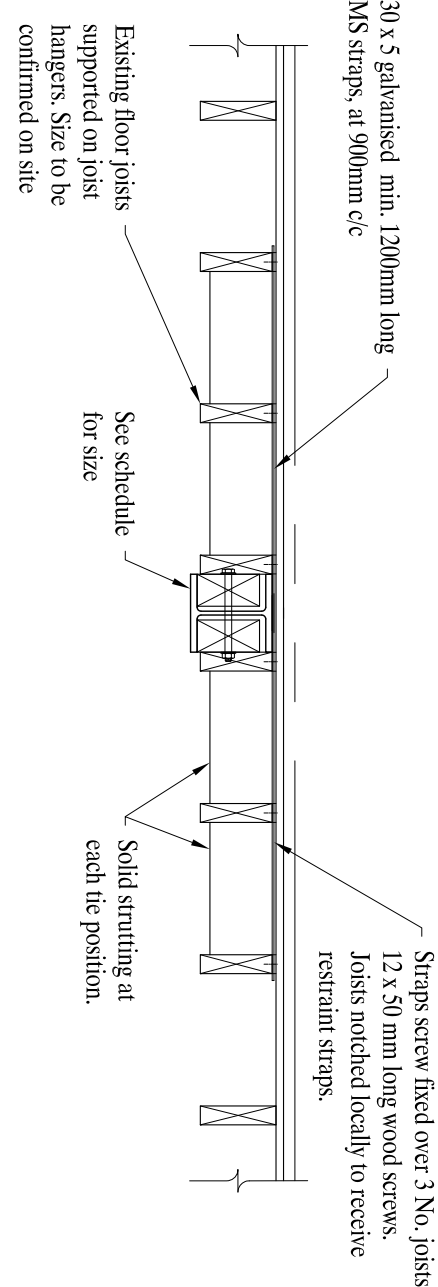
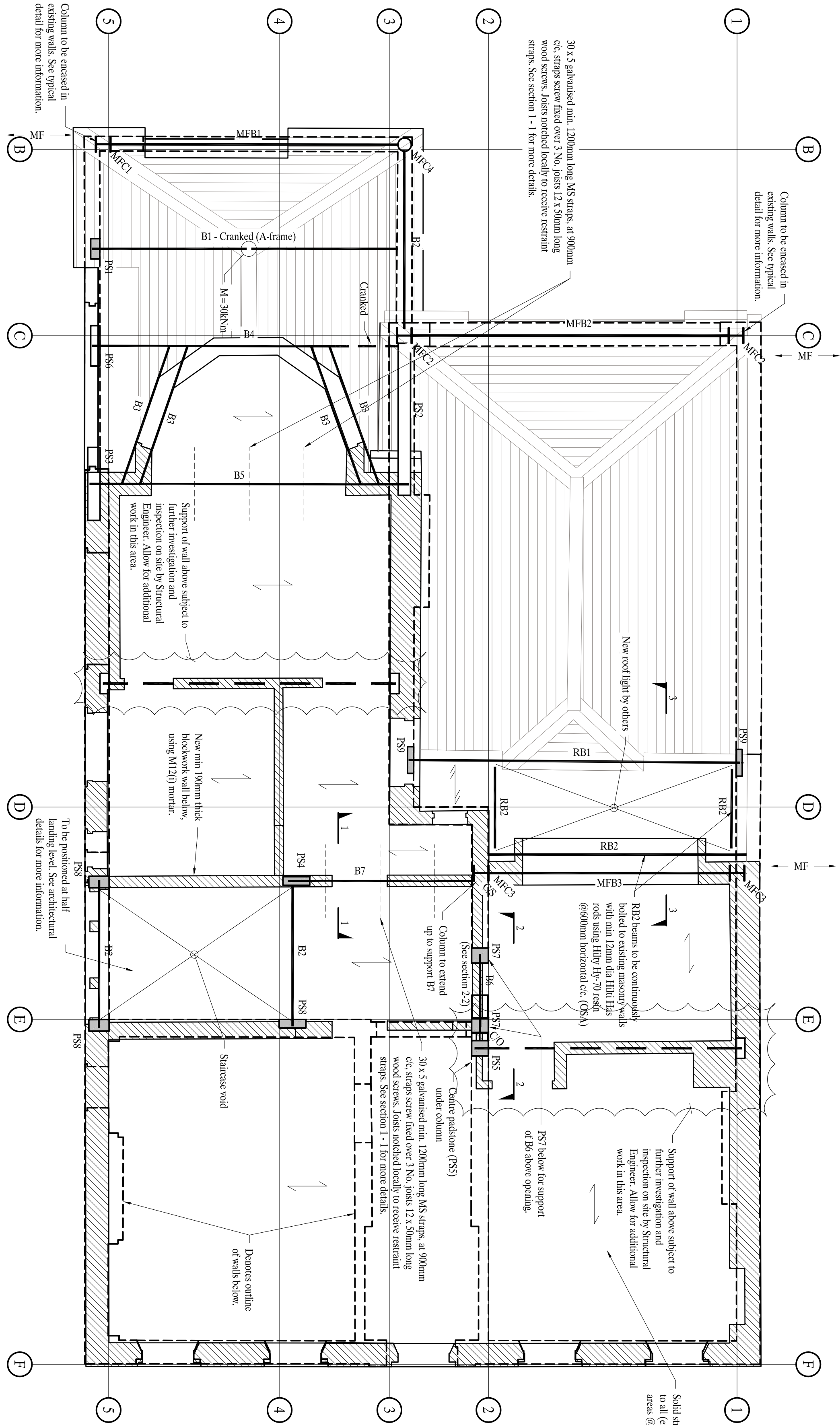
PADSTONE	LENGTH (mm)	WIDTH (mm)	DEPTH (mm)	COMMENT
PS1	335	150	140	C20/25
PS2	2500	-	-	2 No. UC 152x152x25 spreader beam (S275)
PS3	1200	-	-	UC 203x203x46 spreader beam (S275)
PS4	440	190	215	C20/25
PS5	1000	-	-	2 No. UB 203x138x25 spreader beam (S275)
PS6	665	-	-	UC 152x152x25 spreader beam (S275)
PS7	335	275	140	C20/25
PS8	335	190	140	C20/25
PS9	440	100	140	C20/25

MF = Moment frame



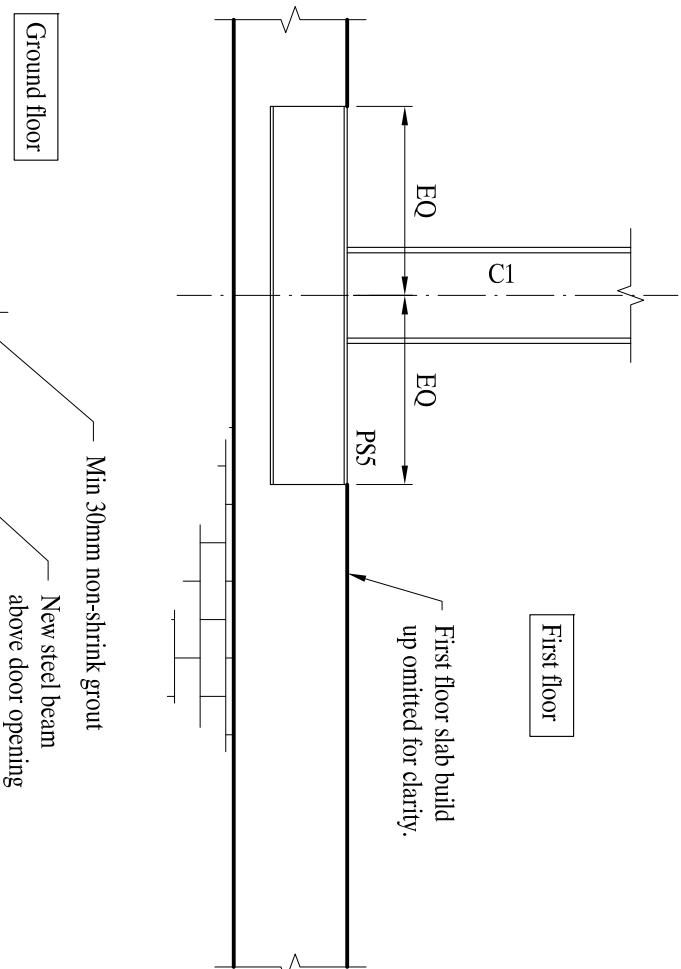
FIRST FLOOR - GENERAL ARRANGEMENT

Scale 1:50



SECTION 1-1

Scale 1:20

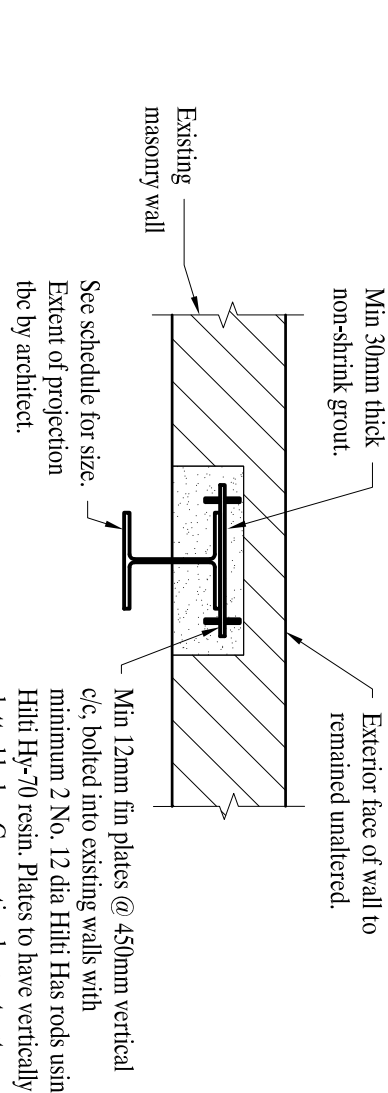


SECTION 2-2

Scale 1:20

TYPICAL DETAIL - ENCASING OF NEW COLUMNS INTO EXISTING MASONRY WALLS

Scale 1:20



TYPICAL PADSTONE DETAIL

Scale 1:20

