

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
CS - Column Slabs
C/C - Column Capped
UNO - Unites Noted Otherwise OSA - On 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 recommended that the S301 & S302 (9) Fabrication (9) approved for the project are complete the detailed design for these 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 S8.8 threaded to BS 9921 class1. All bolts, nuts and washers are to be to BS 9920, Part 2 clause 2.2. Washers are to be placed beneath rotated beam.

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 dampvoids	C2 - Low	C400/3 Epoxy Zinc Phosphate coating (125 microns DFT) - Functional
Internal dry	C1 - Very Low	C400/3 Epoxy Zinc Phosphate coating (75 microns DFT) - Functional
External	C4 - High	Galvalume 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 :
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 frost treated.

6 Padstones
All padstones to be concrete, min grade C20/25 using max. 20 mm aggregate. All steel beams supported on padstones to be bolted to padstones with min 2 No. H10 M10 HSS rod with HY 200 resin. (D.S.A.)

-	17/02/15	HS	Issued for Information
Rev.	Date	Drawn	Amendments

PRINGUER-JAMES
CONSULTING ENGINEERS

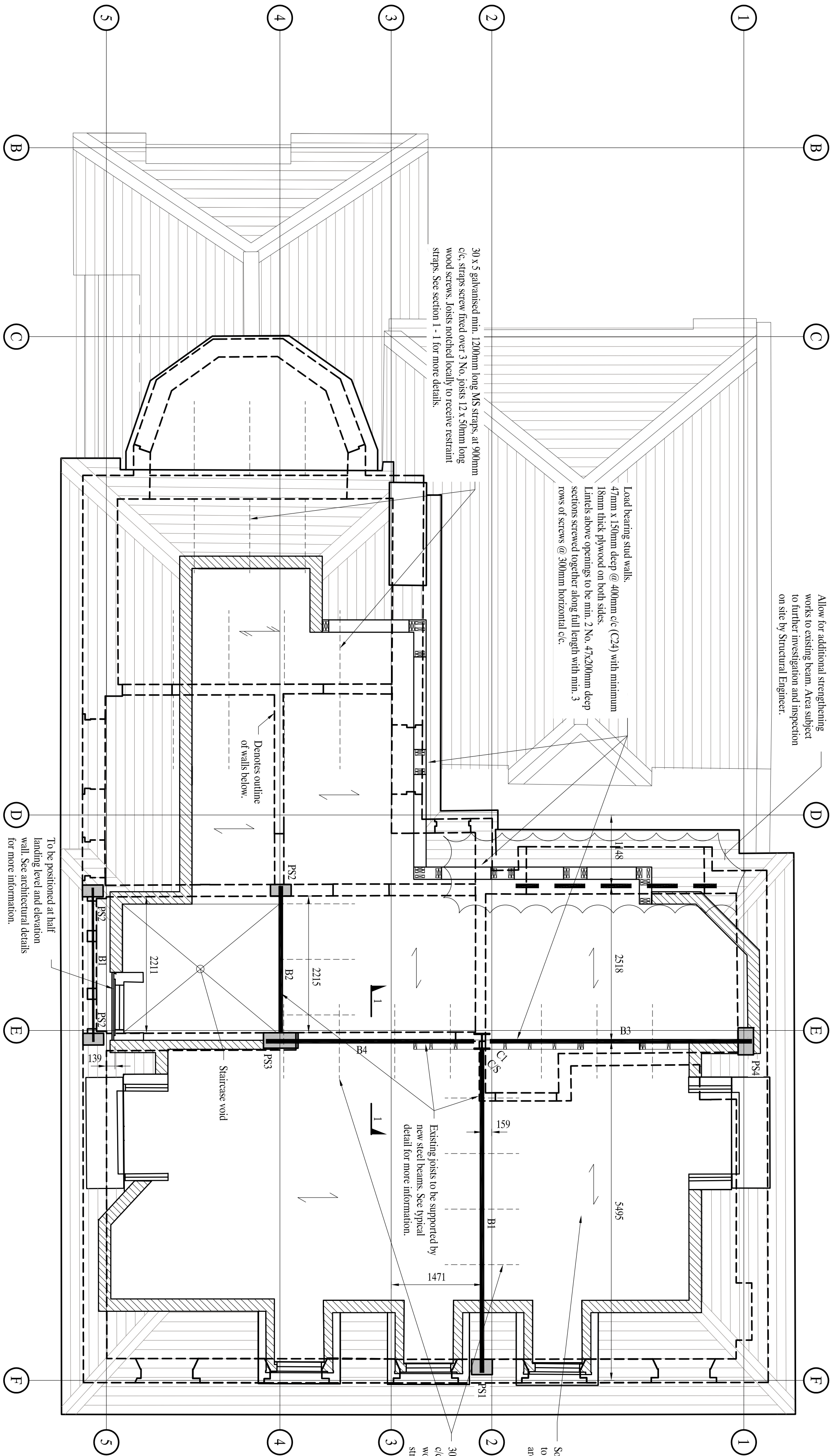
10 Beulah Road, Wimbledon, LONDON, SW 19 3SB
Phone: 020 8940 4151
Email : mail@pjec.com

Website: www.pjec.com

WHITEHALL PARK
17 WADHAM GARDENS
LONDON NW3 3DN

GA OF SECOND FLOOR

Status : CONSTRUCTION REVIEW			
Scales :	As noted @ 1:50	Date :	Feb 15
Drawn :	HS	Engineer :	TF
Checked :		SPJ	
Revision No.	L1802.12	Revision	-



SECOND FLOOR - GENERAL ARRANGEMENT
Scale 1:50

BEAM	TYPE	SHEAR (kN)	SPLICE MOMENT (kNm)	END MOMENT (kNm)	GRADE	COMMENT
B1	203 x 203 UC 46	-	-	-	S275	-
B2	152 x 152 UC 23	-	-	-	S275	-
B3	203 x 203 UC 46	-	-	-	S275	-
B4	203 x 203 UC 46	-	-	-	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)

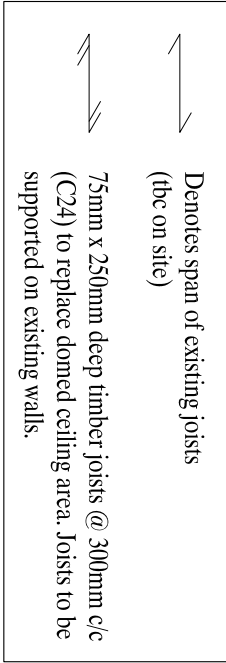
COLUMN	TYPE	AXIAL LOAD (kN)	BASE MOMENT (kNm)	GRADE
C1	152 x 152 UC 23	-	-	S275

(All loads are factored ultimate limit state)

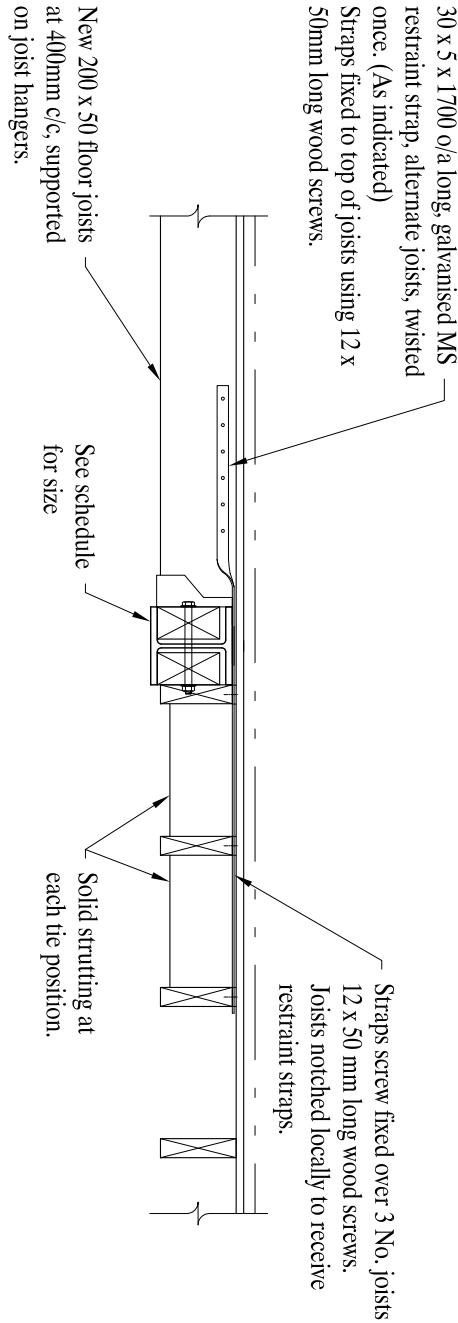
(All steelwork to have 1 hour fire protection - details by architect)

PADSTONE	LENGTH (mm)	WIDTH (mm)	DEPTH (mm)	COMMENT
PS1	335	250	140	C20/25
PS2	335	190	140	C20/25
PS3	560	250	140	C20/25
PS4	440	250	140	C20/25

(All padstones to be Grade C20 concrete)



SECTION 1 - 1
TYPICAL STRAPPING DETAIL
Scale 1:20



TYPICAL PADSTONE DETAIL
Scale 1:20

