

PS4: 15thk x 280wide x 250long MS plate to underside of beam, 10thk stiffeners to beam

Timber frame infill panel 47x97C24 stud wall with 47x150C24 head and bottom beam. Full width openings above.

New masonry wall to match existing, TBA

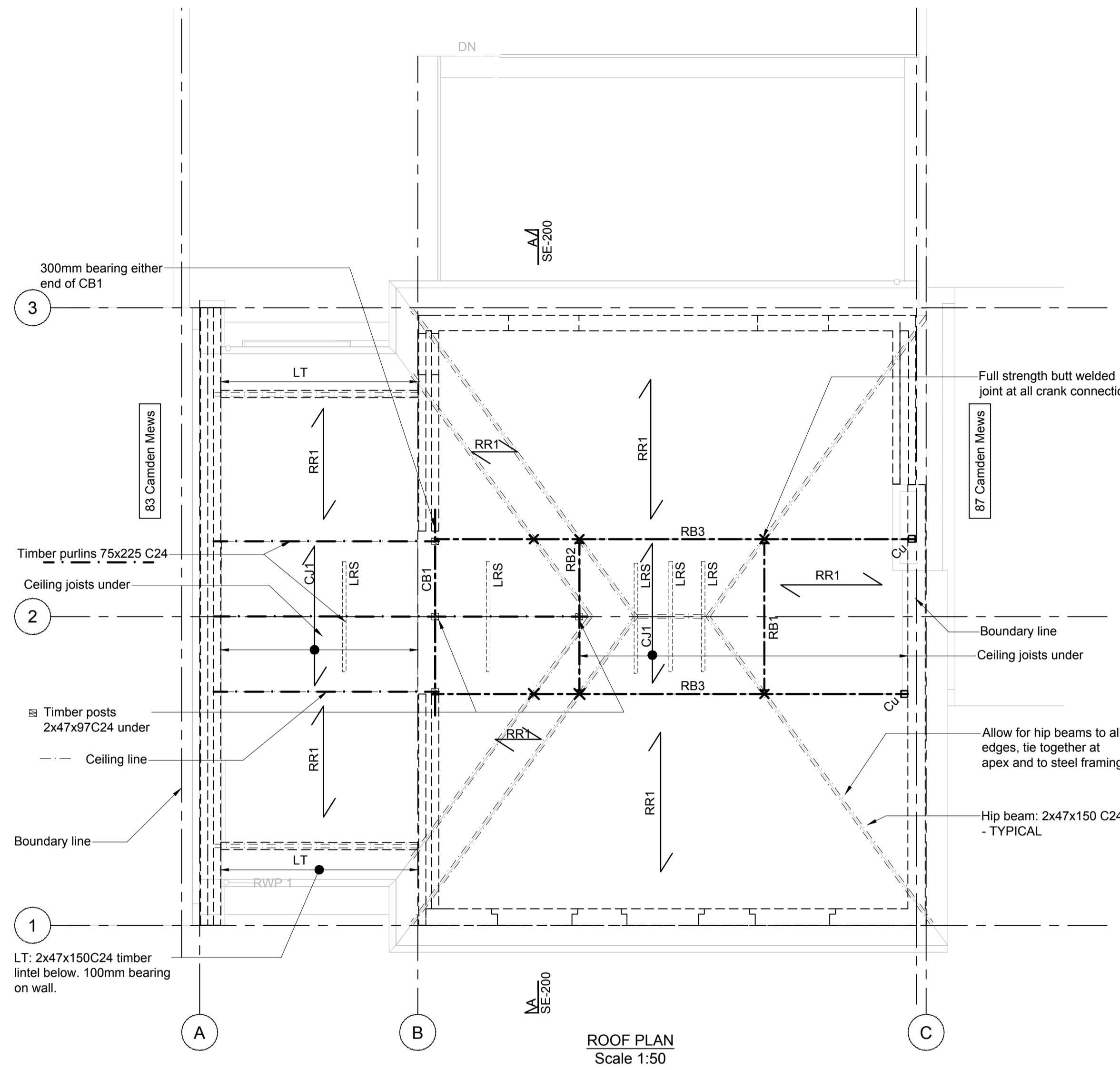
Service zone TBC. Allow for 150x90x24PFC to trim the void.

Steel post to minimize span of beam at 1st floor

Timber frame infill panel 47x97C24 stud wall with 47x150C24 head and bottom beam. Full width openings above.

Internal walls could be 140thk solid blocks. Subject to discussion with architect and next stage of design.

FIRST FLOOR PLAN Scale 1:50



300mm bearing either end of CB1

Timber purlins 75x225 C24

Ceiling joists under

Timber posts 2x47x97C24 under

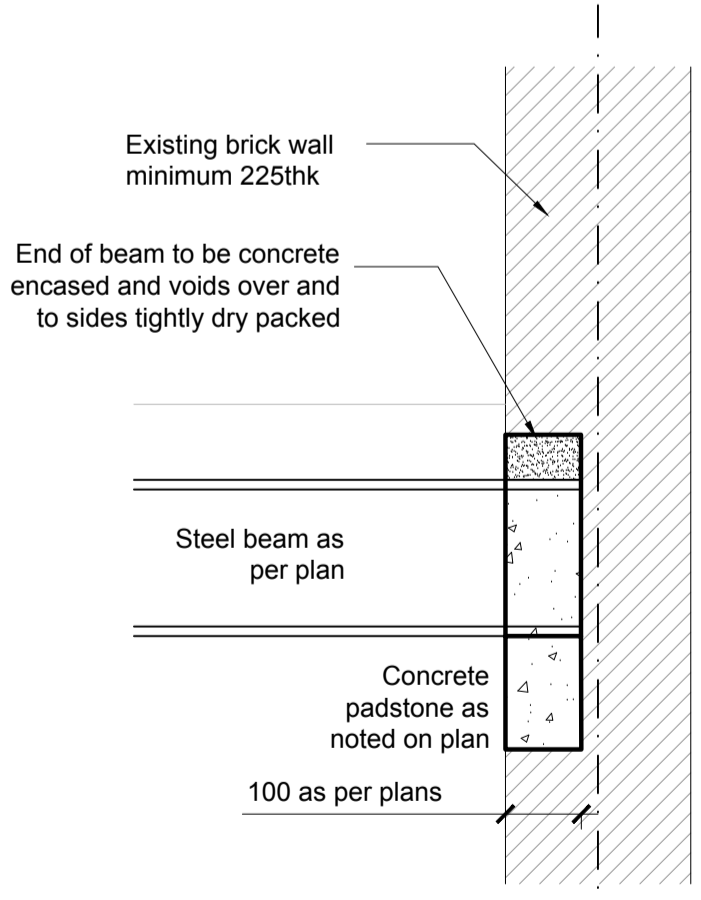
Ceiling line

Boundary line

LT: 2x47x150C24 timber lintel below. 100mm bearing on wall.

ROOF PLAN Scale 1:50

STRAPPING TO PERIMETER WALLS TO BE AT MAX. 1.25m CRS. READ WITH GN-001 AND DE-



TYPICAL PADSTONE DETAIL SCALE 1:10

PADSTONE INSTALLATION METHOD STATEMENT

1. Use hand tools to carefully cut away 100mm deep slot in wall to accept padstone
2. Cast mass concrete padstone and dry pack into position using 1:3 dry mix mortar well rammed in
3. Use hand tools to carefully cut away 100mm deep space to accept beam end.
4. Install beam and dry pack top flange into place with 1:3 dry mix mortar well rammed in and concrete encase around beam flanges or pack with masonry.
5. Repair brickwork around beam end as necessary.

LRS Lateral restraint strapping to all perimeter walls not shown. Allow for 5THK straps at 1.2m CRS as per GN-001 (TBC)

LINTELS SCHEDULE

(L1)	Pre-stressed Concrete Supreme R15A 140d x 100w inner face. Outer face-brick arch or stone to architects/specialists details.
(LB)	Bespoken arched lintels to specialists to design

150mm end bearing either end. Refer to GN-001 for further details.

COLUMN SCHEDULE:

C1:	152x152x37 UC
C2:	203x203x46 UC
C3:	200x100x8.0 RHS
C4:	100x100x10.0 SHS
C5:	80x80x8.0 SHS

Use 15thk base plate and 4M16 holding down resin bolts to footing.

UC columns to be resin bolted to existing wall with M10 at 600 vertical crs. SHS column to be fixed to masonry wall via angle bracket with 2M8 at 600crs.

All steelwork to be S355. See DE for details. Refer to GN-001 for further specification notes.

STEEL BEAMS SCHEDULE S355:

GB1:	152x152x30UC	75kN ULS
GB2:	254x254x89UC	
GB3:	254x254x73UC	
GB4:	200x90x30PFC	
GB5:	203x203x46UC	
1B1:	152x152x23UC	75kN ULS
1B2:	203x203x60UC	
1B3:	203x203x46UC	
1B4:	203x203x46UC	
1B5:	203x133x30UB	
1B6:	150x90x24PFC TBC	
RB1:	152x152x23UC	75kN ULS
RB2:	152x152x23UC	
RB3:	203x203x60UC	
CB1:	203x203x46UC	
CB2:	203x203x46UC	

- HL - Higher Level
 - LL - Lower Level
 - # - Allow for 10THK S275 plate to support Masonry over
 - (SP) - Allow for splice
 - (FP) - Allow for fillet plate as per details.
 - Refer to plans and schedule for mass concrete padstones locations and sizes.
 - End of beams to existing walls are to be supported via in-situ concrete padstones
 - min. 4M20 8.8, 10thk full depth end plate connections
- Refer to notes drawing GN-001 and specification for further specification

TIMBER FLOOR/ROOF SCHEDULE:

FJ1	47x200 C24 at 400crs max. clear 3.4m (unless else as noted on plan)
RR1	47x150 C24 at 400crs max. clear 3.8m
CJ1	47x120 C24 at 400crs max. clear 2.65m

Provide continuous decking over the beams or strap to tie the floor structure as per DE-300.

Min. 18mm thk ply decking to floors
Min. 12mm thk ply decking to roofs (no access)
- Ply to be glued and screwed with 5dia x 50long wood screws at 150 to perimeter of board and at 300 internally to joists and intermediate noggins.

End of joists to be supported on maxi speedy joists hangers (SWL 5.9kN) to beam webs via timber plate bolted to steel with M12 at 600crs.

End of joists to be supported on new/existing masonry wall by build-in min. 100mm and wrapped in DPM.

Refer to specification and GN-001 for further notes

PADSTONES SCHEDULE

PS1:	150(d)x100(w)x330(l)
PS2:	215(d)x100(w)x450(l)
PS3:	300(d)x100(w)x800(l)

C20/25 concrete typical

Refer to plans for further notes and other padstones

PC - 150wide x 450long RC pad extended to concrete u/pin. Detail DE-300

We allowed for allowable bearing pressure on brickwall of swl=0.43N/mm2 [5N in mortar (iii)]

Bear on solid and sound masonry wall. Consult SE if flues are found, prestressed concrete padstone/lintels may be required.

* End of the beam to be strap down to solid masonry with 2x2.5x30x1.5 L-strap (galv) fixed to steel and masonry with min 2x7x4 dia screws

- NOTES:
1. If in doubt please ask.
 2. Do not scale this drawing.
 3. This drawing is to be read in conjunction with all Engineers, Architects or other relevant drawings and specifications. Any discrepancy is to be reported to the engineer immediately.
 4. The contractor must ensure and will be held responsible for the overall stability of the building/structure/ excavation at all stages of the work.
 5. All existing details shown are based on limited opening up. Assumptions have been made regarding existing construction. Framing and spans of existing slab joist and walls to be confirmed on site.
 6. To be Read with General Notes GN-001

GENERAL KEY:

	New masonry walls
	Existing concrete
	Demolition
	Structural walls under
	Blockwork wall
	Load-bearing stud wall
	New reinforced concrete
	(S) 20N Bricks in mortar (iii) infill toothed in to existing and dry packed, thickness to match existing
	New timber stud partitions unless noted otherwise, double up joists / provide solid noggins under
	EX. Span of existing floor
	Span of new timber concrete see notes
	New steel beams
	New timber beams
	LRS1 Restraint straps as per spec and details
	Column under

B2	03.12.18	Issued for Building Control Approval	KK	AP
B1	17.11.17	Issued for Building Control Approval	KK	AP
P1	16.06.17	Issued for Comment	VH	AP
Rev	Date	Amendments	By	Chk'd

BUILDING CONTROL

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Project:
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Drawing title:
STRUCTURAL PLANS

Date:	06/2017	Scale at A1:	as per plan
Drawn by:	VH	Designed by:	KK
Checked by:	AP		

Drawing No: **15005/GA/101** Revision: **B2**