

date: 8th November 2024

job no: 1920

project: M&W Manchester

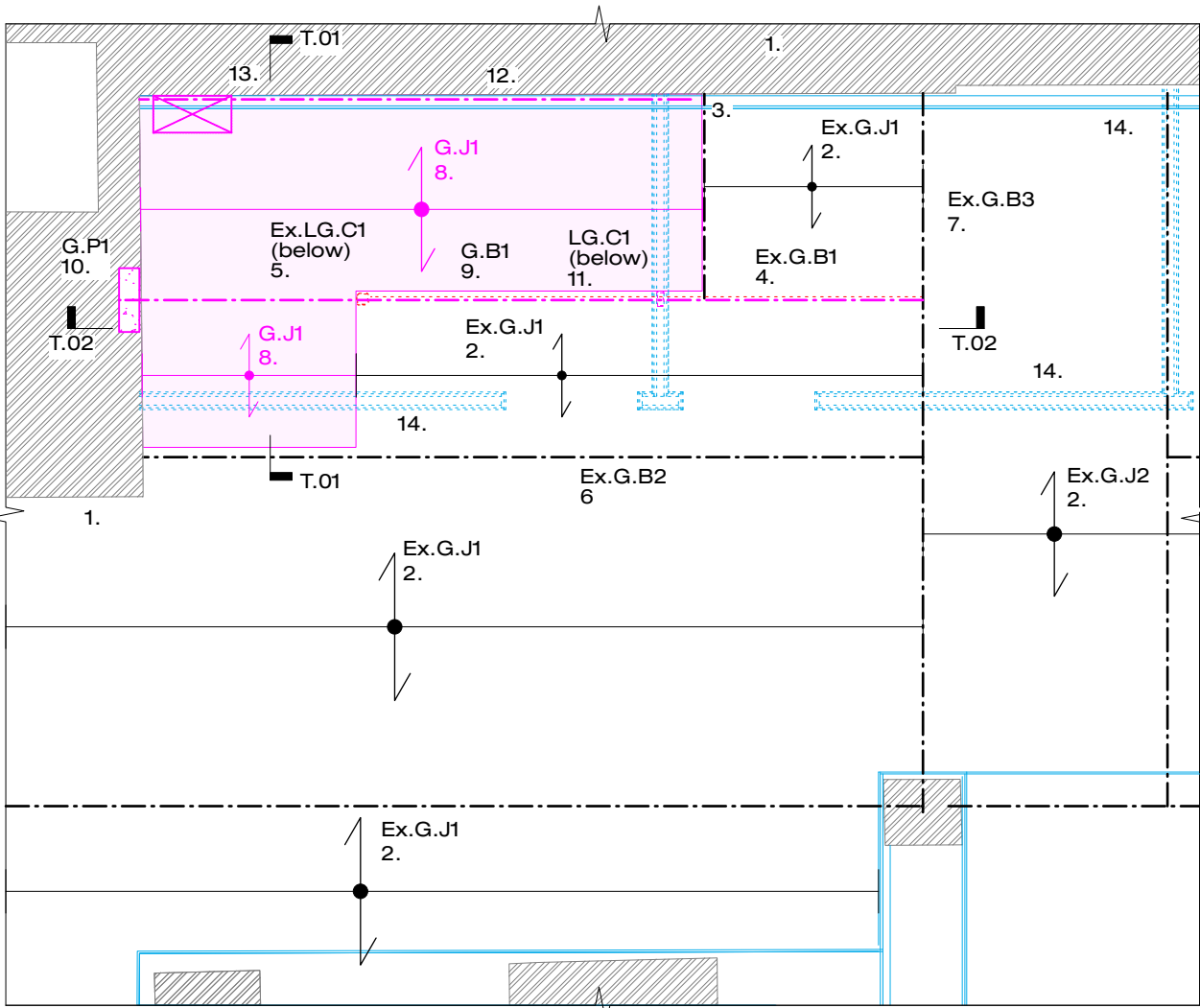


GF Joist Schedule		
Ref	Size	Grade
Ex.G.J1	75 wide by 225 deep timber joists at 380 centres	-
Ex.G.J2	75 wide by 275 deep timber joists at 420 centres	-
G.J1	75 wide by 225 deep timber joists at 380 centres	C20

GF Beam Schedule		
Ref	Size	Grade
Ex.G.B1	203 x 102 x 23 UB	-
Ex.G.B2	240 wide by 320 tall timber beam	-
Ex.G.B3	2no. stacked 178 x 102 x 19 UBs	-
G.B1	203 x 102 x 23 UB	S275

Ref	GF Padstone Schedule
G.P1	440 x 140 x 215h

LG Post Schedule		
Ref	Size	Grade
Ex.LG.C1	80 x 80 SHS	-
LG.C1	100 x 50 x 6.3 RHS	S355HF



Notes:

This drawing to be read in conjunction with the architects drawings and all other relevant drawings.

- Existing load bearing solid masonry walls.
- Ground floor structure comprises timber joists spanning between load bearing masonry solid masonry walls or structural beams. Refer to key for further details.
- Existing 210 deep timber beam. Beam connected to the wall via metal joist hangers and a timber wall plate.
- Existing steel beam Ex.G.B1, currently trimming the existing stair void, to be replaced with a new steel trimmer of longer span to support the stair infill.
- Existing steel post Ex.LG.C1 to be removed.
- Existing timber beam Ex.G.B2 assumed to support timber floor joists. Beam to remain unchanged as part of the proposals.
- Existing steel beam Ex.G.B3 comprises 2no. stacked steel sections. No active connection noted between the two members. Existing steel beam provides support to 2no. incoming existing beams (Ex.G.B1 and Ex.G.B2).
- Existing stair void to be infilled with new timber joists of matching size and spacing to the existing joists. Refer to joist schedule for further details.

9. New steel beam G.B1 to support the stair infill. Beam to span between existing beam Ex.G.B3 and internal masonry wall, taking intermediate support from a new steel post below. Install timber packers between the web of the new beam to receive incoming joists on joist hangers fully screwed to the packers.

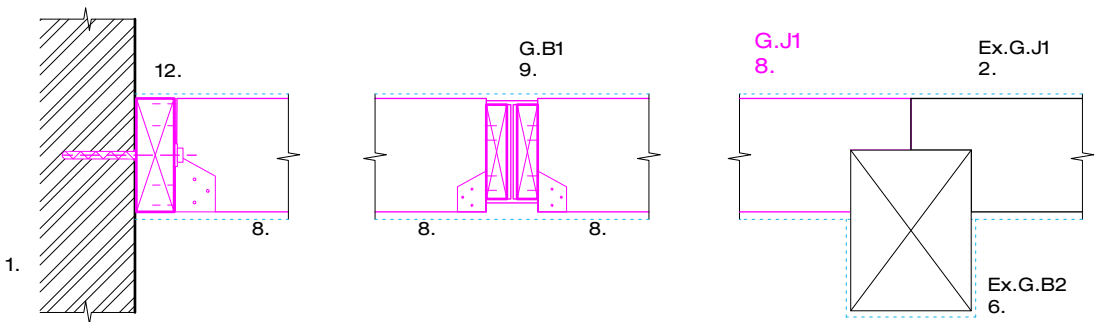
10. New mass concrete padstone G.P1 to be pocketted into the internal masonry wall to support new steel beam G.B1. Refer to the schedule for details.

11. New steel post to be concealed within a new internal wall below. Post to be bolted to the steel beam G.B1 with fully welded 10thk. baseplate and 4no. M16 grade 8.8 bolts.

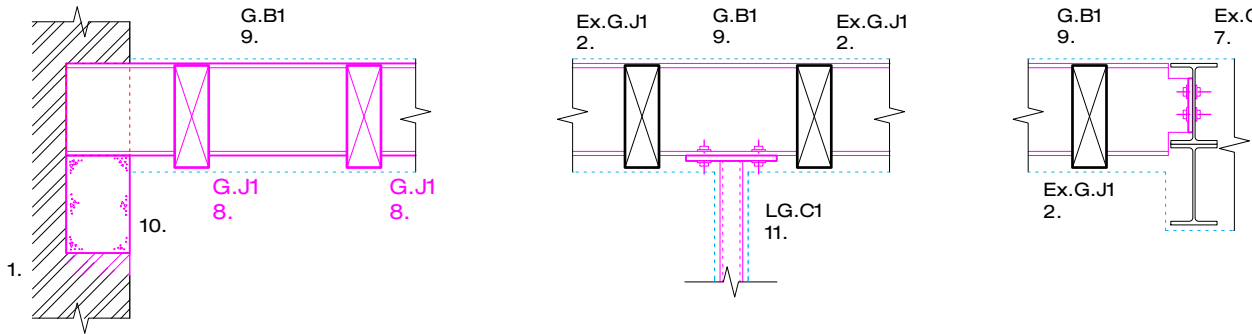
12. New full depth timber wall plate to match adjacent joists bolted to face of existing wall with M12 grade 8.8 resin anchors at 400 c/c with min. 80mm penetration. Incoming timber joists to be screwed to the timber wall plate through joist hanger connections. Refer to detail T.01 for wall plate arrangement.

13. Proposed floor openings for services. Double up existing floor joists around all new floor openings (U.N.O) with timbers of matching size, bolted together with M12 Grade 8.8 bolts at 400 horizontal centres. Bolts to be installed at mid-depth of the beams.

14. Proposed non-structural partition walls below shown as dashed.



T.01 Short section through stair infill and existing floor structure



T.02 Long section through stair infill and existing floor structure

engineer: AJF

checked: PG