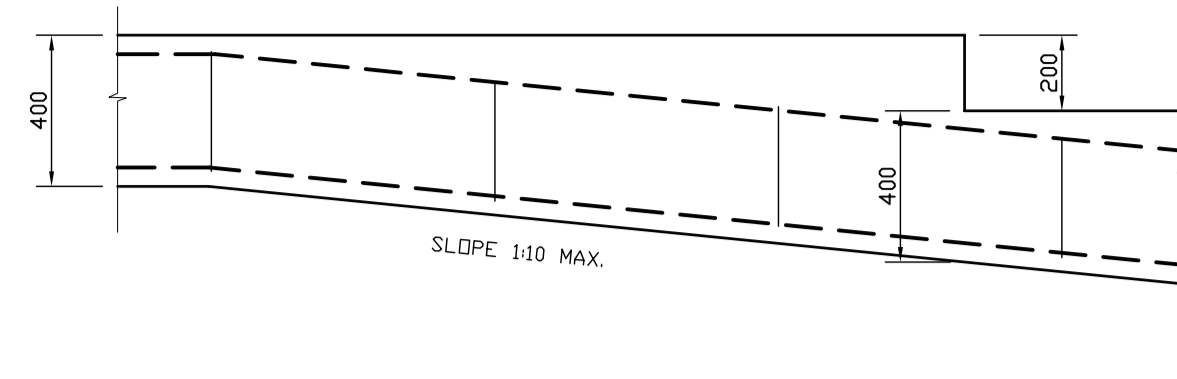
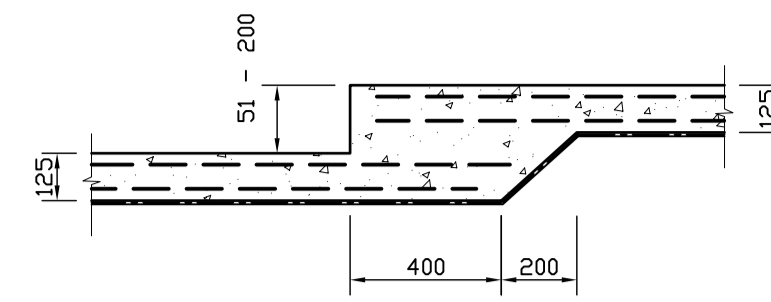


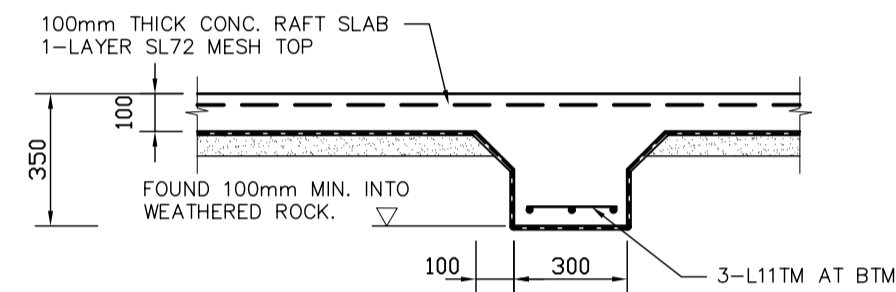
STRIP FOOTING PENETRATION DETAIL



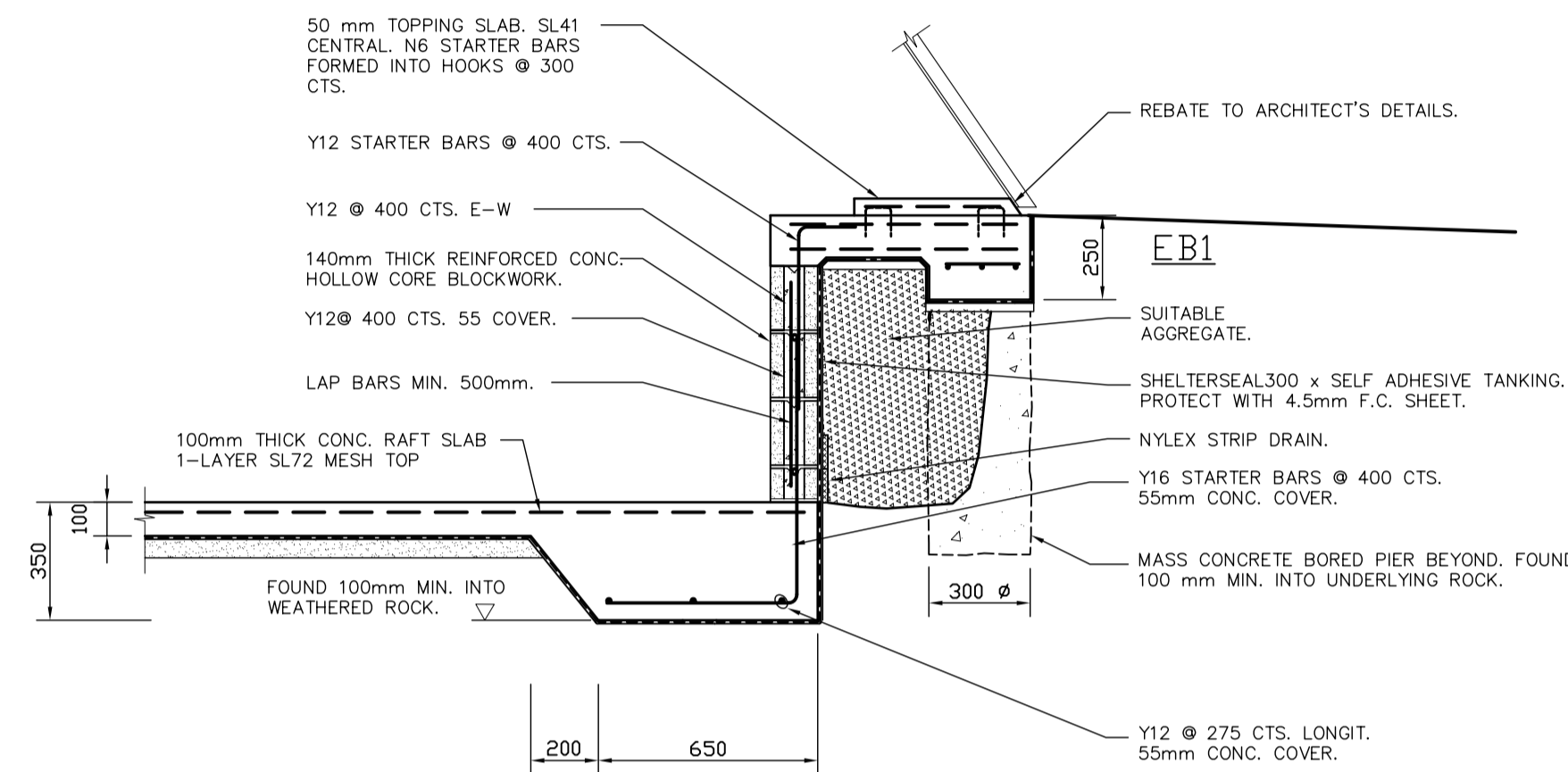
STRIP FOOTING STEP DETAIL



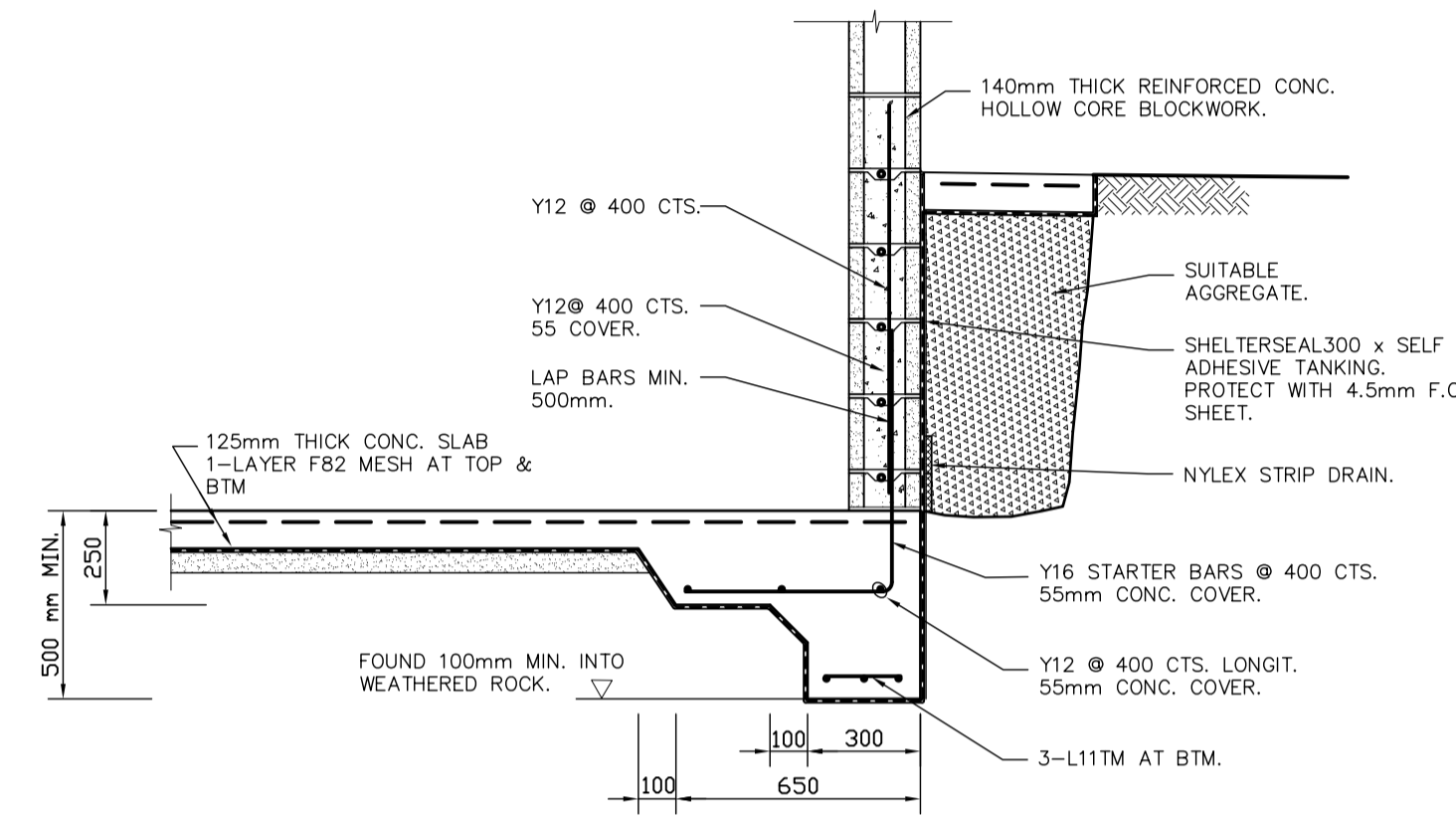
SLAB STEP DETAIL



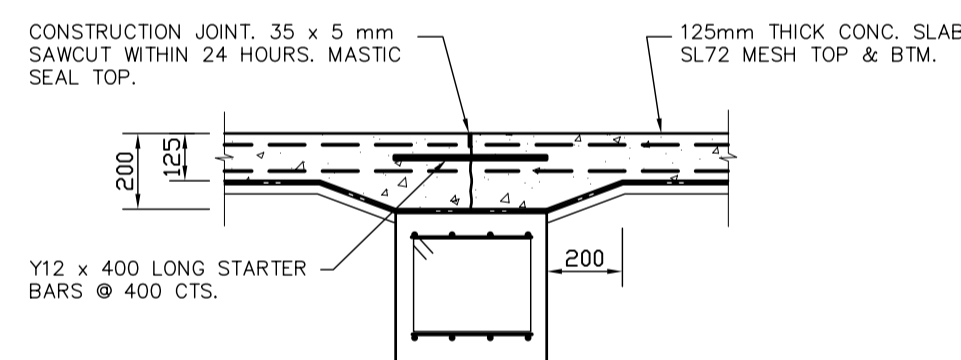
INTERNAL BEAM (IB)



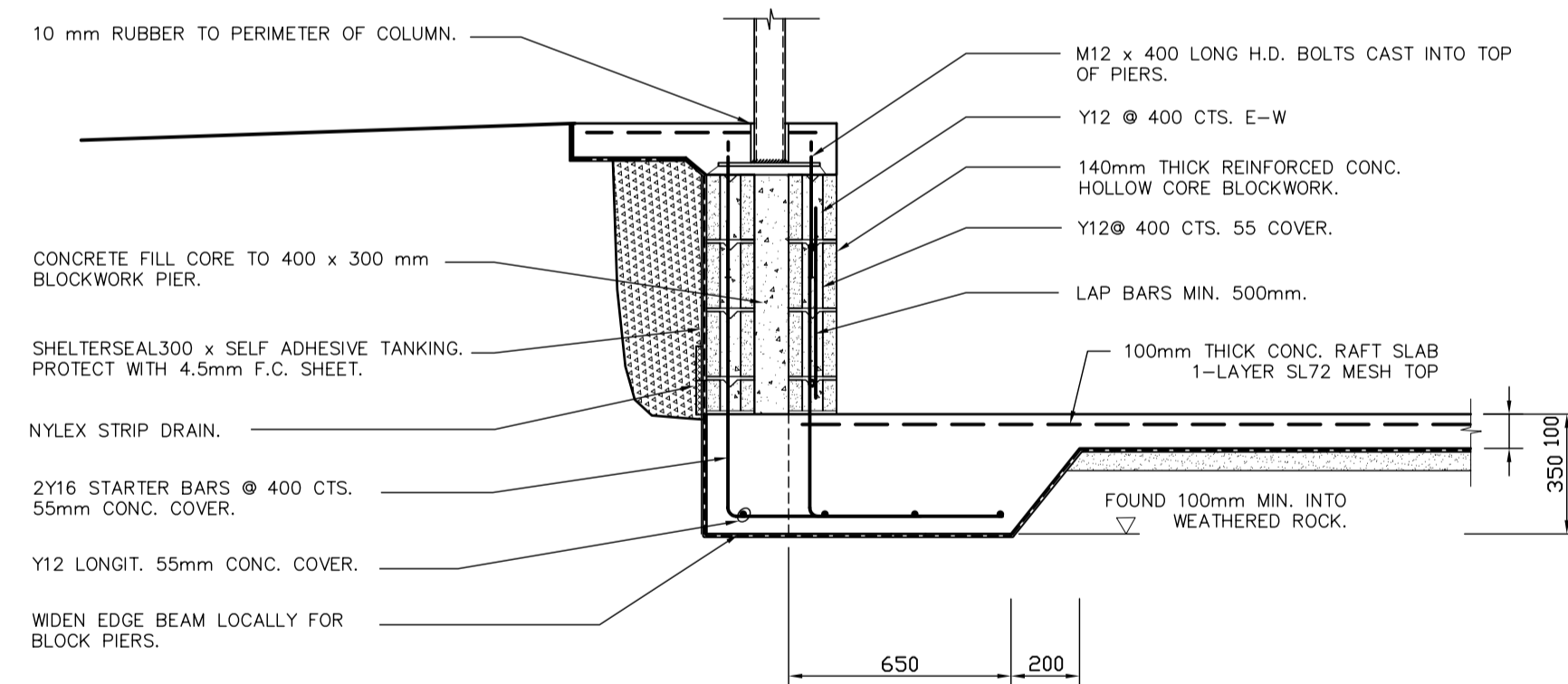
SECTION 04 < EB4 >



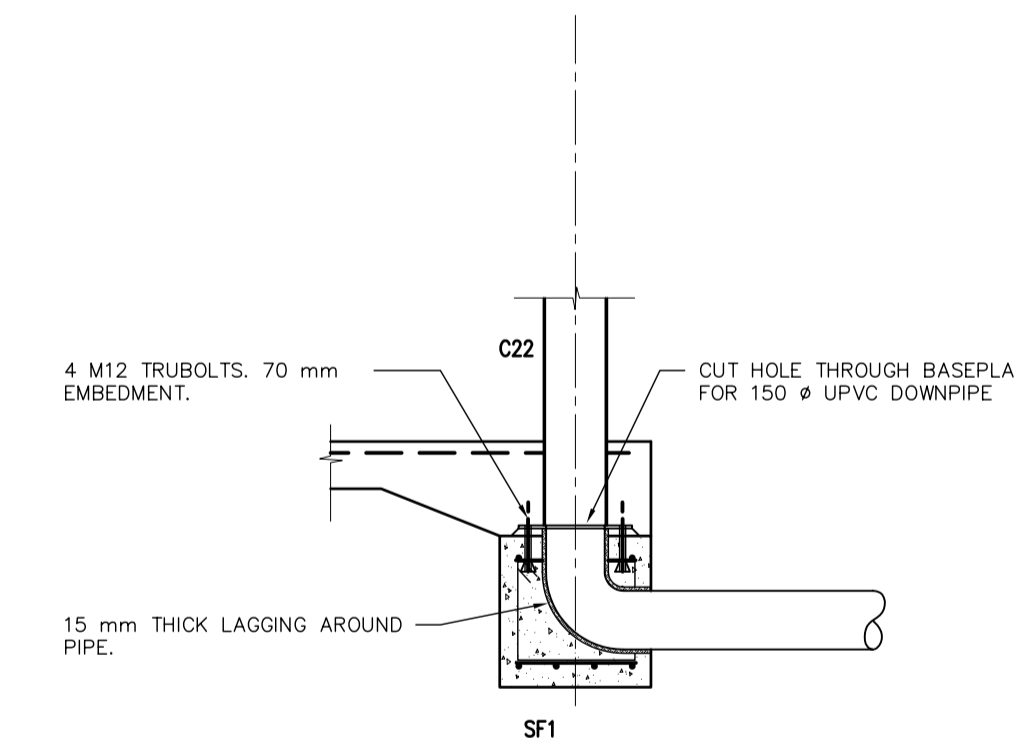
SECTION 05



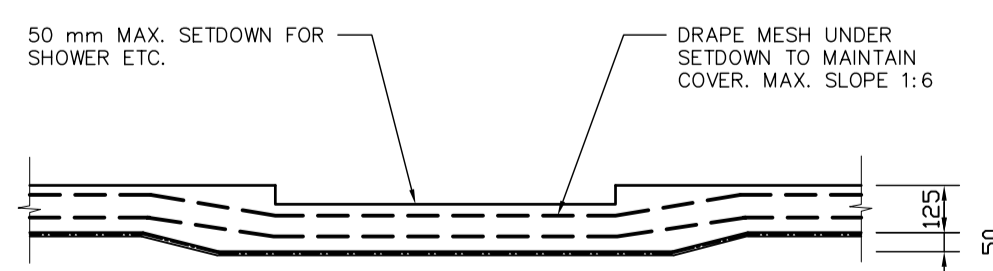
SLAB CONSTRUCTION JOINT (C.J.)



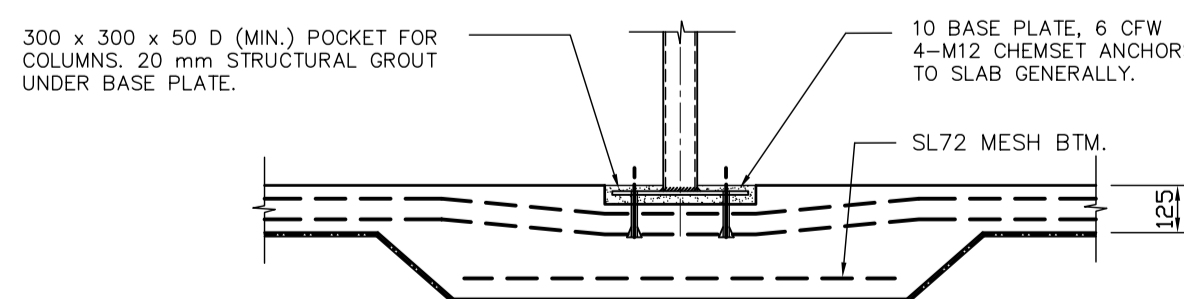
SECTION 06 < EB4 >



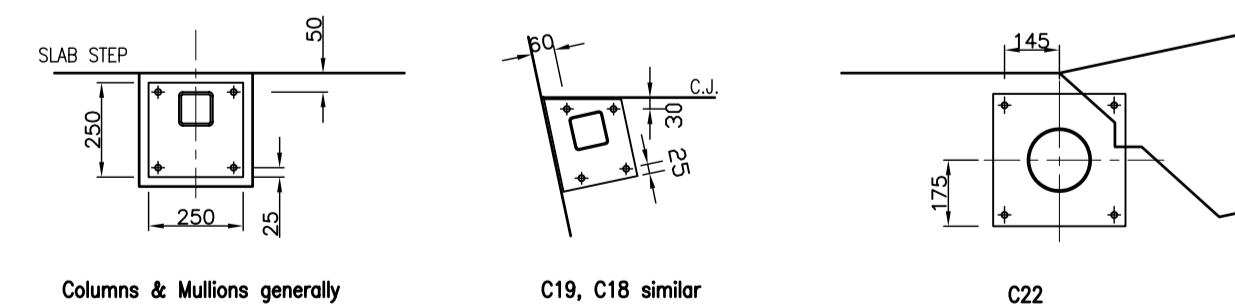
COLUMN C22 BASE DETAIL
scale 1:20



TYPICAL SLAB SETDOWN



TYPICAL COLUMN BASE DETAIL



BASE PLATE PLAN DETAILS
scale 1:20

NOTES: 250 x 250 x 10 Pl. base plates.
Weld to columns - 6 CFW all round.
4 M12 Trubolts to slab. 60 mm min. embedment. U.N.O.
C1, C2, C7 - C10, C15, C16, C19 & C20 to have 4 M12 x 450 long H.D. bolts cast into slab.

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NOTE:
This drawing is to be read in conjunction with all of the Consultants drawings, details and specifications and any other written instruction issued during the course of the contract.

The Contractor shall verify all dimensions on site prior to commencing any shop drawings. Figured dimensions shall take precedence over scale. Scaled dimensions shall be verified on site.

Revisions:		
NO.	AMENDMENT	DATE

CONSTRUCTION SET

TIM HALL & ASSOCIATES Pty Ltd
STRUCTURAL ENGINEERS

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Project:
**BRENTKNOLL
FORREST ROAD
MALMSBURY**

Title:
SLAB DETAILS

Scale:	1:20	Job No.:	0604
Date:	Sept. '06	Drawing:	S102
CAD File:	malmbsbury-structplan	Drawn:	th
Checked:		Revision:	C1

STRUCTURAL STEEL:

- S1. All structural steelwork shall be in accordance with A.S.4100 and shall be Ordinary Weldable Grade Steel to A.S.1204 unless noted otherwise.
- S2. All welding to be carried out in strict accordance with A.S.1554 Part 1. Use 6mm continuous fillet welds full perimeter and E41 XX Electrodes unless noted otherwise.
- S3. All unencased steelwork to have one shop coat of approved RED OXIDE Zinc Phosphate Primer. Touch up after erection.
- S4. All bolts to be Commercial bolts of Grade 4.6 to A.S.1111 in 2mm clearance holes.
- S5. H.S.F.G. denotes a high strength bolt of Grade 8.8 to A.S.1252 used in a Friction Type joint to A.S.1511. Unless otherwise approved the Turn of the Nut method of tightening to be used.
- S6. Builder to be responsible for field welding of masonry ties to structural steel sections where abutting brick walls. See also Specification. Unless otherwise specified use 3.25 U shaped galvanised wire ties anchored 100 min. into masonry at 4 course of 400 max. centres.
- S7. Steelwork connections not detailed on drawings to be made using 10 mm cleat plates with 6 mm continuous fillet welds and 2 M20 bolts.
- S8. Purlin connections to be made using 8 mm cleat plates with 5 mm continuous fillet weld and 2 M16 bolts to each support.
- S9. All cleats and drilling for fixing of timber members etc. to be provided by Fabricator.
- S10. Ends of all tubular members are to be sealed with 6mm plates and continuous seal welds.
- S11. Grout under base plates with 25 of 2:1 sand, cement of stiff consistency rammed solidly into position and all edges trowelled to a smooth finished where exposed.
- S12. Steel lintels to bear min. of 230 mm on brickwork each end unless indicated otherwise on drawings.
- S13. Steelwork below ground to have 75 concrete encasing.
- S14. The Builder shall allow in his tender for approved substitutions due to non-availability of nominated sections.
- S15. Steel members must be supplied in full continuous lengths. Spliced steelwork will be rejected without prior written approval from the Engineer.
- S16. Two copies of shop drawings to be submitted to Engineer for approval prior to commencement of fabrication.
- S17. Builder to provide all temporary bracing required to ensure stability of structure during erection.
- S18. All site welding and work on hot dipped galvanised steelwork shall be recoated with a zinc-tin-lead-alloy, supplied in a stick form by CIG called "Galvanising Bar". The damaged area is to be cleaned by vigorous wire brushing, and the alloy applied to the weld area or reheated steelwork. The molton alloy is to be spread with a wire brush or flexible blade.
- S19. Steel grades to be as follows u.n.o.
 - * Grade 300- hot rolled plates, flats and angles.
 - * Grade 300PLUS- UB, UC, PFC.
 - * Grade 300- WB, WC
 - * Grade 350- SHS, RHS and CHS where noted.
 - * Grade 250- CHS u.n.o.

MEMBER SCHEDULE

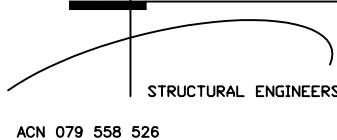
MEMBER	SIZE	REMARKS	FINISH
B1 – B4	310 UB 32		
B5, B6, B8	360 x 45 F16 LVL		
B7	360 x 45 F16 LVL		
B9	180 x 75 PFC		
B10	150 UC 37.2		
B11, B15	200 UB 18		
B12, B13	360 x 45 F16 LVL		
B14	150 UB 18		
B16, B17	200 UB 18		
B18	300 x 63 F17 LVL		
B19 – B21	150 x 75 PFC		
L1 – L10	300 x 45 F16 LVL	HOLD DOWN INTO BRICKWORK. SEE DETAIL	
L11 – L18	200 x 200 x 13 EA	SITE WELD TO COLUMNS. MITRE AT CORNERS.	GALV.
C1 –C16	89 x 89 x 3.5 SHS	250 x 250 x 10 PI. BASE PLATE.	
C18, C19	89 x 89 x 3.5 SHS	250 x 200 x 10 PI. BASE PLATE. 4 M12 x 400 LONG HD BOLTS	
C20, C21	89 x 89 x 5.0 SHS	300 x 300 x 10 PI. BASE PLATE. 4 M12 x 400 LONG HD BOLTS	GALV.
C22	168.3 x 4.8 CHS	350 x 350 x 8 PI. BASE PLATE. 4 M12 TRUBOLTS.	GALV.
M1, M4, M5, M8	deleted		GALV.
M2, M3, M5, M6	89 x 89 x 3.5 SHS		
M9, M10	89 x 89 x 3.5 SHS		

ROOF BEAMS GENERALLY TO BE IN THE SAME PLAIN AS THE JOISTS.

GALV. = HOT DIPPED GALVANISED AT A MINIMUM RATE OF 600 g/m

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Project:
**BRENTKNOLL
FORREST ROAD
MALMSBURY**

Title:
MEMBER SCHEDULE

Scale:
Date: Jan. '07
CAD File: malmsbury-structplan
Drawn: th
Checked:

Job No:
0604
Drawing:
S202
Revision: C1

