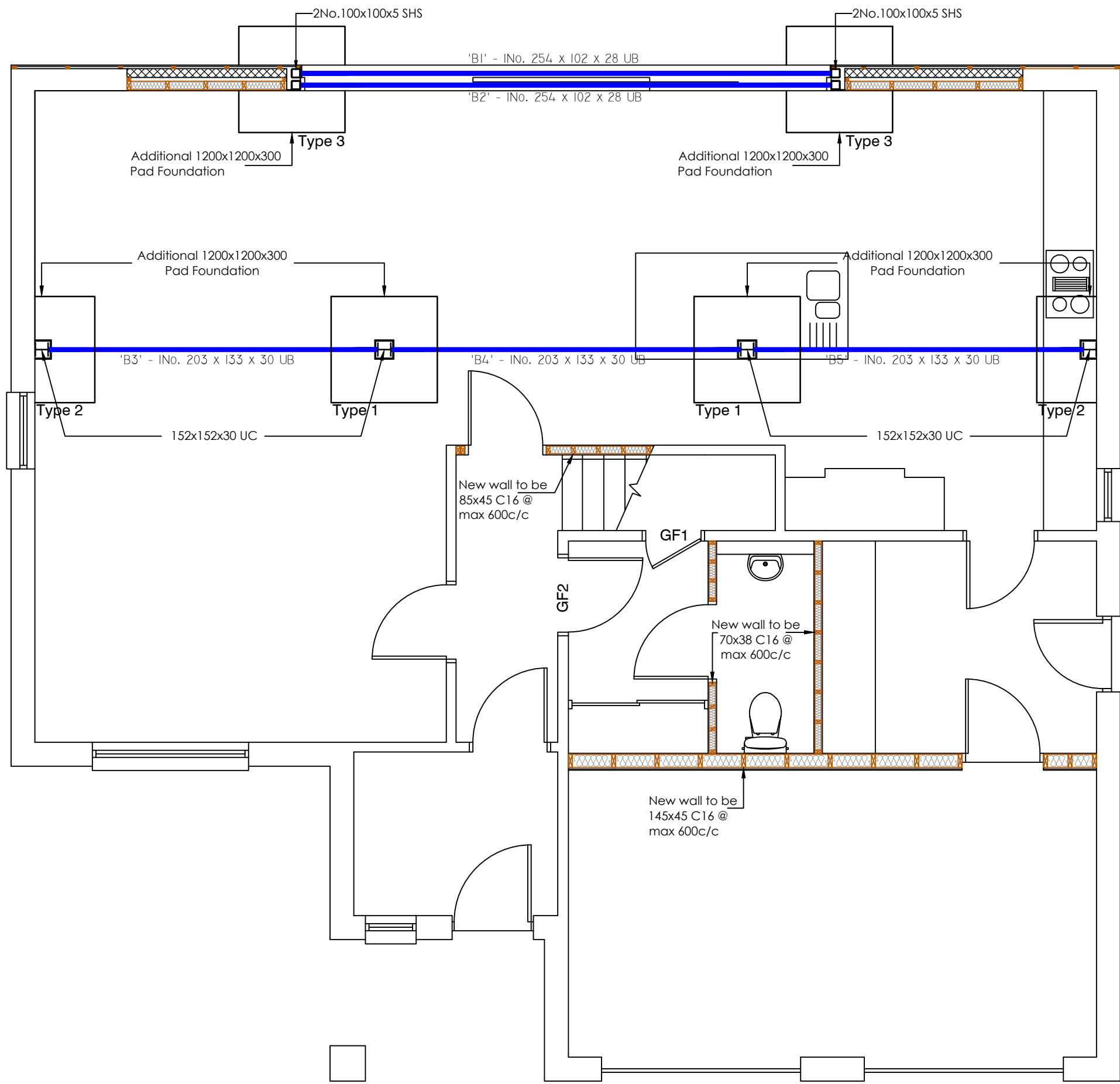




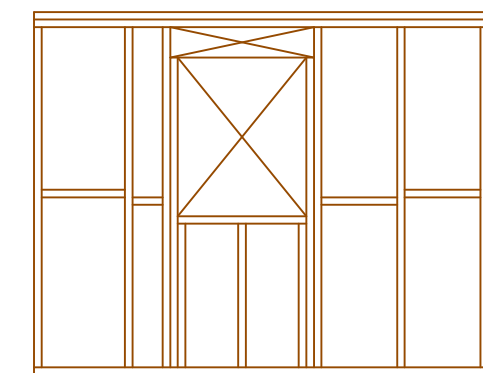
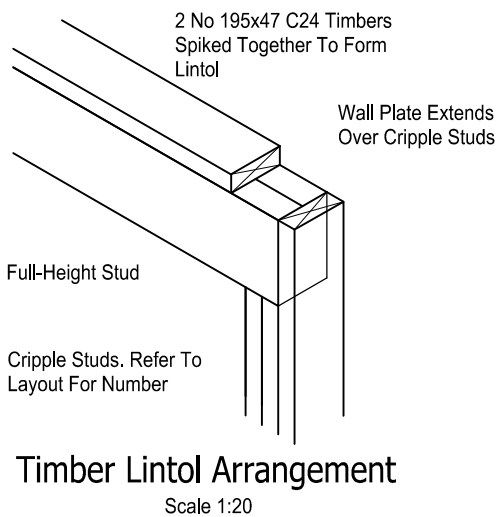
Proposed Ground Floor Layout

Ground FLOOR LINTEL SCHEDULE				
Ref.	Type	Length	No. of	Notes
GF1	2No. 195x47 C24	1005mm	1	
GF2	2No. 195x47 C24	1220mm	1	

All lintels to have 150mm minimum end bearing at each end unless noted otherwise.
Lintels to be fully propped as required to Manufacturers Specification / Installation Guide.
* - denotes Architect to confirm Lintel detail / requirements. All internal lintels to be 3 no.
47 x 195 timbers spiked together with 2 rows 3.75mm Ø ring shank nails - 300mm staggered centres.

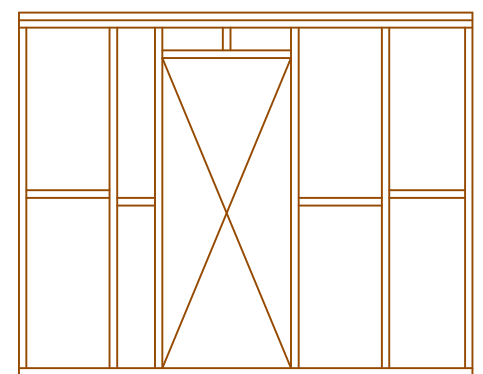
NOTE - WINDOW FIXINGS:
ALL WINDOWS TO BE FIXED WITH 2 NO.8 WOOD SCREWS IN PAIRS @ MAX. 400MM C/C OVER LENGTH OF FRAME AT EACH SIDE OF PROPOSED WINDOW OPENING.

NOTE - WALL TIES:
TIMBER KIT TO MASONRY WALL TIES TO BE CULLEN FT-50 FITTED AT 600MM C/C HORIZ. & 225MM C/C VERTICALLY TO RESIST PULL OUT FORCE OF 0.5kN OR EQUAL APPROVED.



External Panels

Studs: 95x45 C16 at 600mm (max) Ctrs
Header: 2 No 95x45 C16
Lintels: 2 No 195x47 C24 u.n.o
Soleplate: 95x45 C16
Full-depth Drawings at mid-height



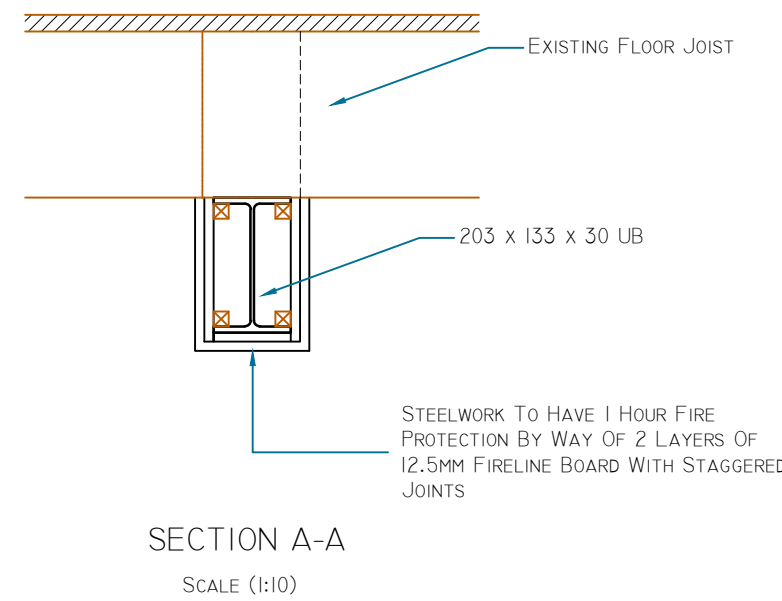
Internal (NLB) Panels

Studs: varies - refer to plan layout
Header: 2 No studs to suit partition size
Soleplate: to suit studs within partition
Full-depth Drawings at mid-height

Timber Specification

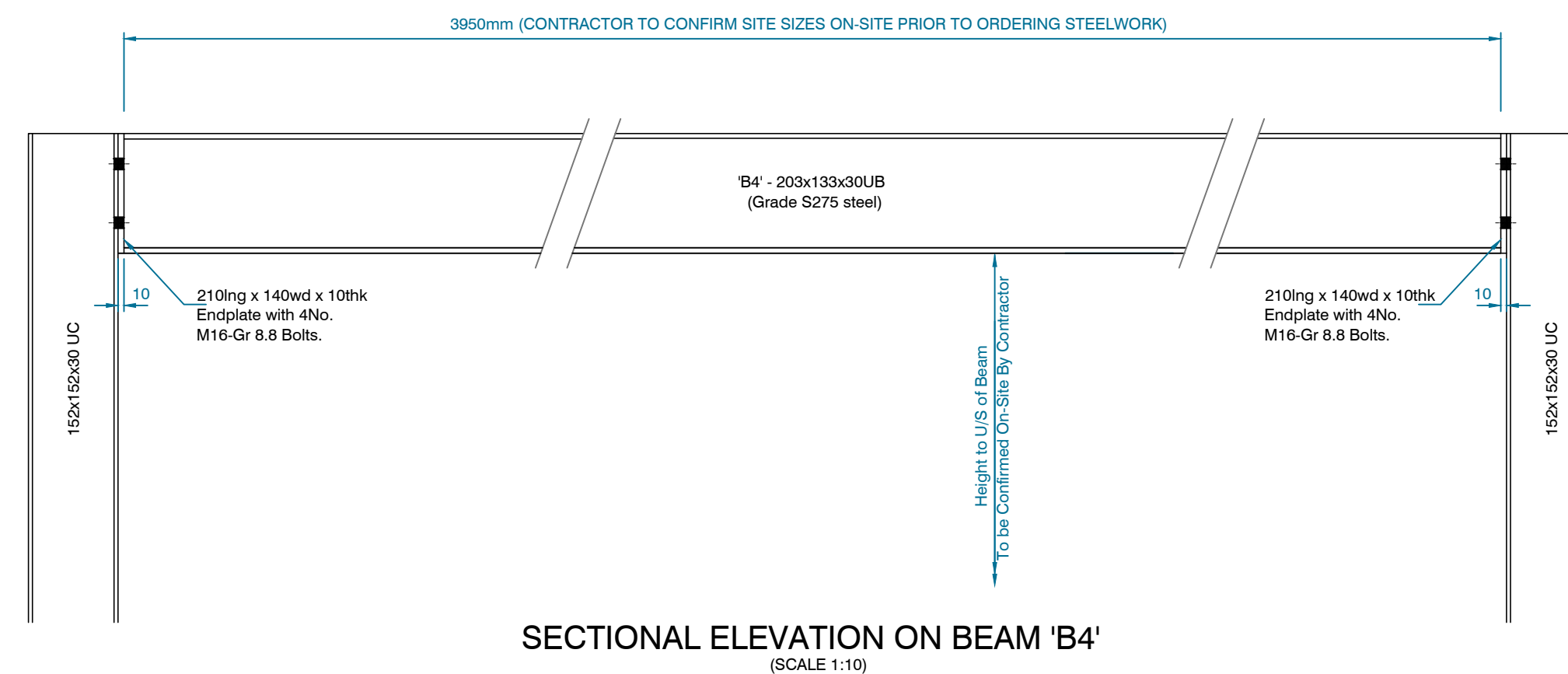
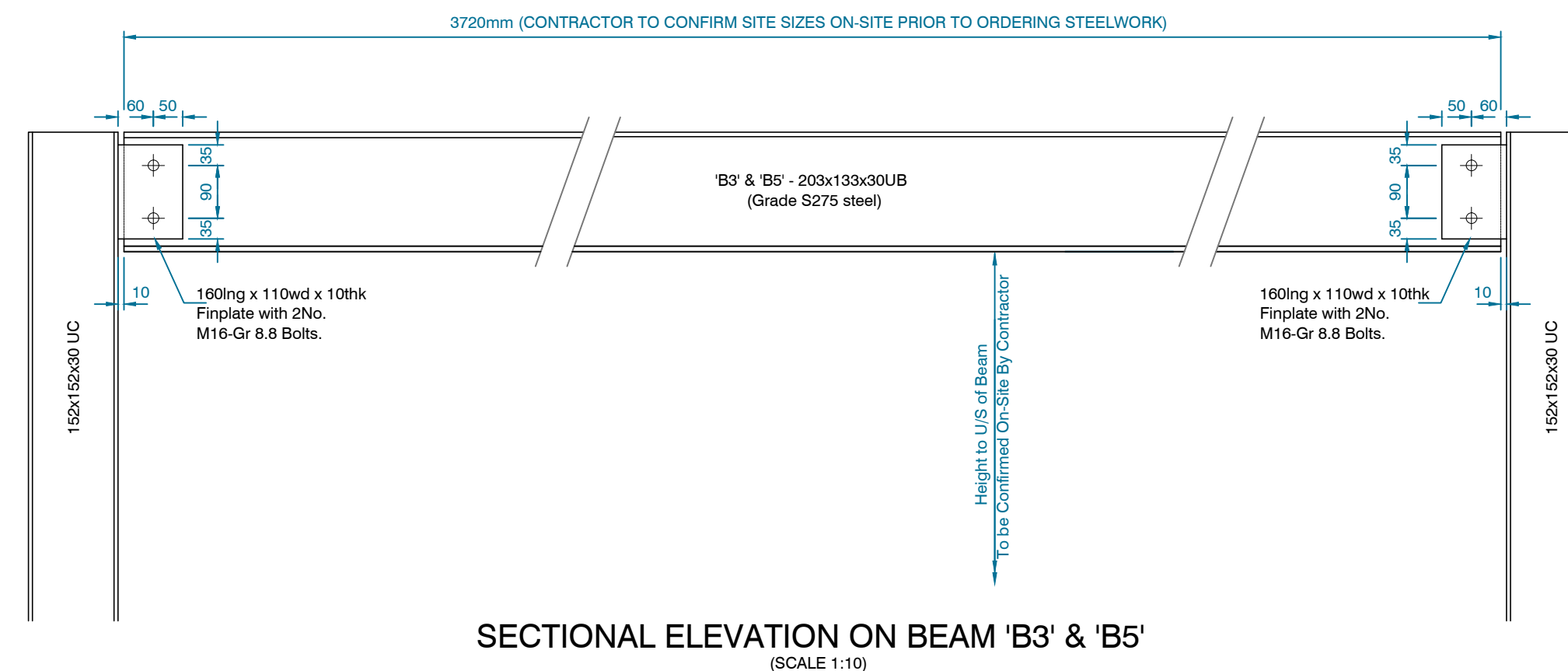
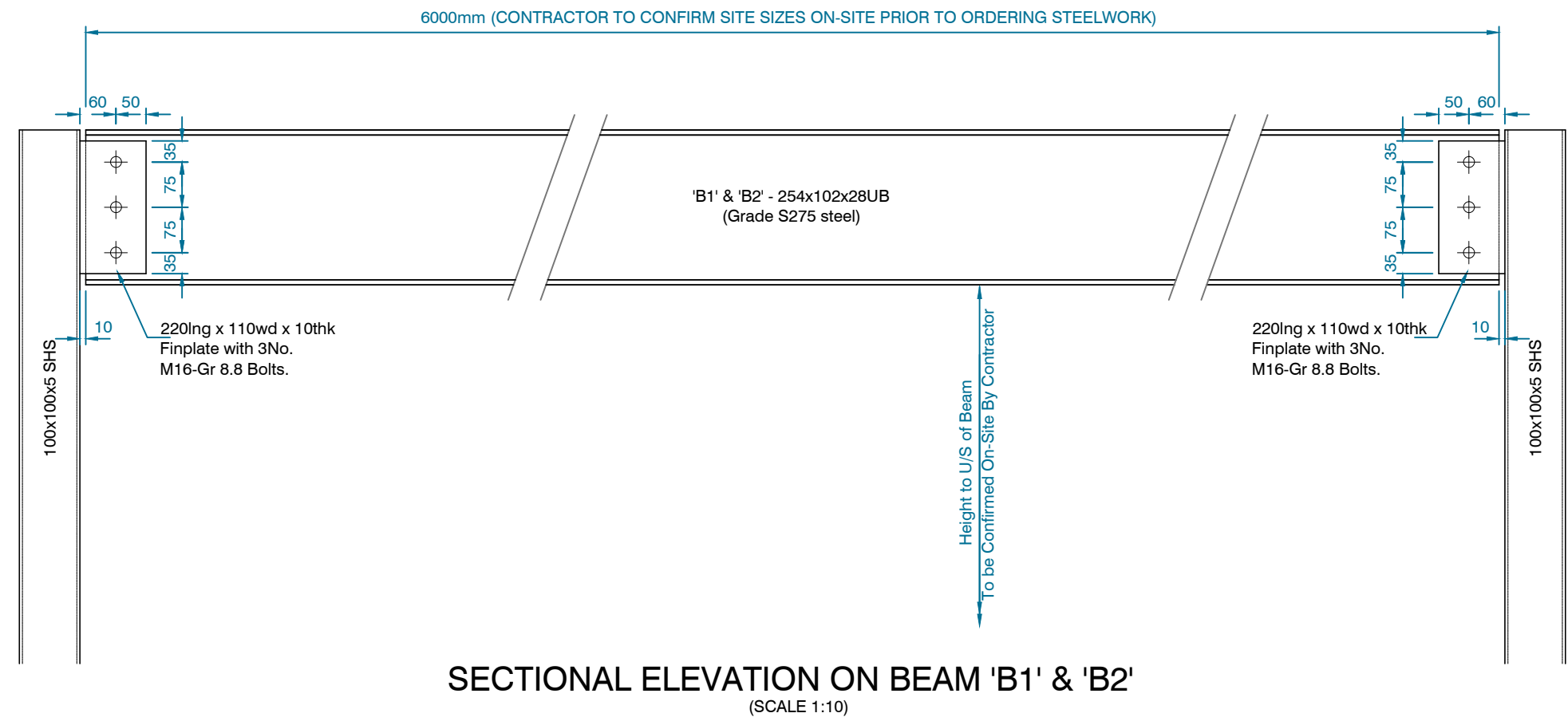
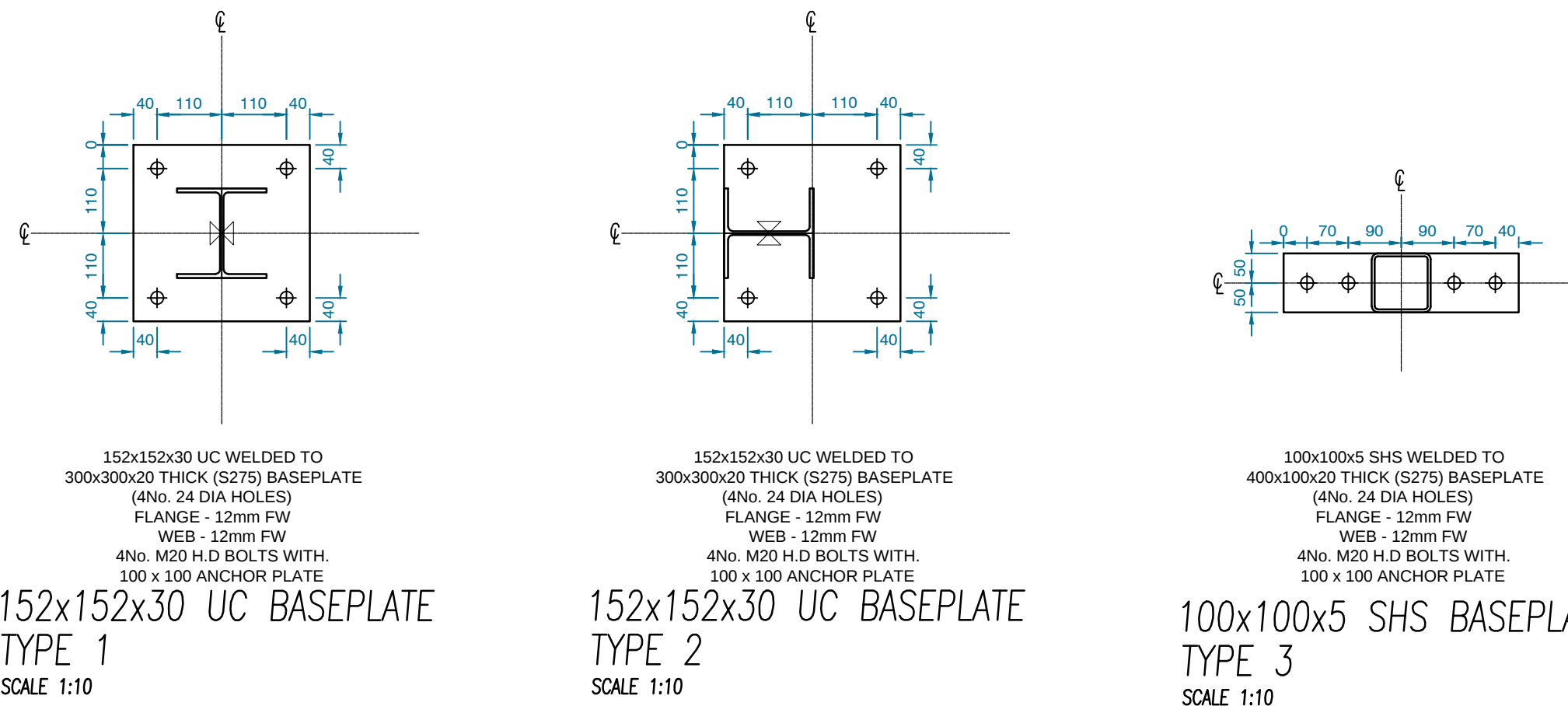
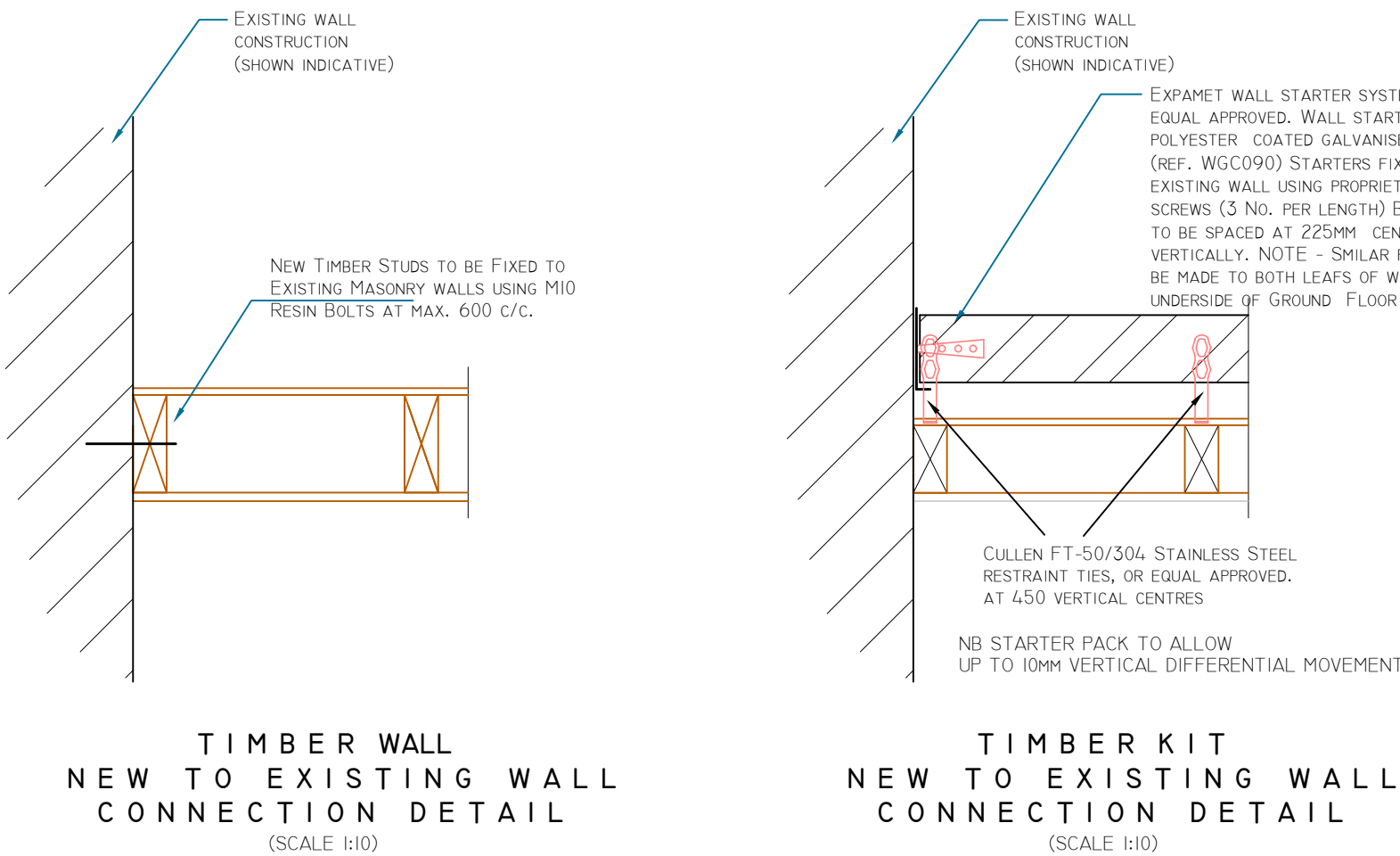
- Materials For Critical Functions As Noted Below Must Comply With This Specification Or At Least Be Equal Or Approved.
- D.P.M.'s To Solum Areas And Oversite Areas Must Be In Accordance With Provisions Deemed To Satisfy Part G Of The Building Standards (Scotland) Regulations 1990 And Shall Comply With N.H.B.C. Standards.
- D.P.M.'s Shall Comply With N.H.B.C. Standards Chapter 6.1-M6.
- Anchorage To Substructure Wallplates And Soleplates Shall Be Fixed To Substructure With 80mm Masonry Nails And Washers. Timber Frame Structure To Be Anchored Into External Masonry Leaf With Zinc Coated Mild Steel Straps To BS729 Or BS1705.
- Timber Preservation All Timber Components As Set Out In Table 1 Of N.H.B.C. Standard Chapter 6.2 To Be Treated In Accordance With BS5268 Part 5 1989. Any Sole Plates Below Scribed Level Treated "Calure A" CCA Vacuum / Pressure Process.
- Structural Timbers Generally As Noted Below In Respect Of Species And Minimum Grades To BS5268 Part 2 1996.
- Joists To Be Strength Class C24.
- Studs To Be C.L.S. Sections - Strength Class C16.
- Top & Bottom Plates To Be C.L.S. Sections - Strength Class C16.
- Headbinders To Be C.L.S. Sections - Strength Class C16.
- Lintels To Be C.L.S. Sections - Strength Class C24
- Non Load Bearing Panels 95 x 45 Members C.L.S. Sections - No Structural Grading Required.
- Panel Sheathing Material To Be Minimum 7.5mm (Unless Otherwise Noted) Canadian Douglas Fir Sheathing Grade Plywood Marked C.O.F.I. Exterior, D.F.P. (Or C.S.P. Sheathing) Or American Plywood C-C Grade Marked A.P.A.: C-C Group 1 Exterior PS1-95, BS5268-Part2 Section 4 Or (OSB) Oriented Strand Board Type OSB4 Conforming To BS EN 300.
- Breather Type Building Membrane To BS4016:1977 Or Similar Type Material Having Agreement Certificate And Must Be Lapped As Shown In N.H.B.C. Standards Chapter 6.2.
- Insulation Will Be Unfaced Mineral Fibre Quilt Slab, Either Rock Or Glass Or Equal.
- Vapour Checks Will Be 500G Virgin Polythene Sheeting And Must Have Minimum 100mm Laps And Joints Must Occur At Studs Or Dwgings.
- All Nails And Staples And Other Structural Fixings Will Be Galvanised Or Similar Approved Coatings With The Exception Of Nails For Wall Ties Will Be Stainless Steel.
- Masonry Claddings Must Have Clearances And Compressible Sealants For Differential Movement. Expansion Joints In Accordance With Manufacturers Requirements For Type Of Masonry To Be Incorporated.
- Wall Ties To Be Cullen Type FT-50/304 Or Equal And Approved Stainless Steel Wall Ties Must Be Fixed To Studs At 600mm Horizontal And 450mm Vertical Centres.
- Cavity Ventilation Must Be Provided Below D.P.C. Level And At Eaves And Verge Level So As To Provide Equivalent Of Open Perpend Every 1.2m.
- Roof Void Ventilation Must Be Provided To Give The Equivalent Of A Continuous 10mm To 25mm (Dependant On Roof Pitch) Gap Along Full Length Of All Eaves.
- Cavity Barriers And Firestops Must Be Protected With D.P.C. Or Cavity Trays Where They But Against External Claddings.

NAILING AND FIXING SCHEDULE	
ITEM	RECOMMENDED FIXING
FOUNDATIONS	
Sole plate to under building	Mechanical fixings at 600mm centres rated at 4.7kN shear resistance
Holding down straps	Stainless steel strap 30mm x 2.5mm attached to stud by 6 No 3.96 mm x 65mm ring shank nails at 2.4m centres, at every opening and at the ends of a wall attaching the strap to the stud and placing an L-shaped end of the strap under the masonry cladding creating the holding down resistance
Wall panels	
Top rail of panels to head binders	Tops of individual wall panel members linked by member continuous across panel joints secured with 4.0mm x 90mm galvanised wire nails, 2 nails between stud centres.
Sole plate to ring beam/pist	4.0mm x 90mm galvanised wire nails, 2 nails between stud centres.
Bottom rail to sole plate	4.0mm x 90mm galvanised wire nails, 2 nails between stud centres.
Wall panel stud to wall panel stud	4.0mm x 90mm galvanised wire nails at 600mm centres each side staggered.
Header plate to intermediate floor	4.0mm x 90mm galvanised wire nails at 900mm centres. Nails skewed externally through rimbord into headbinder and internally skewed through the headbinder into the joists.
Sheathing to perimeter studs	3.1mm x 50mm wire nails at 100 or 150mm as calculated
Intermediate studs to sheathing	3.1mm x 50mm wire nails at twice perimeter centres
Studs to plasterboard	2.65mm x 40mm smooth shanked galvanised flat round headed nails at 150mm centres
Top and bottom rails to studs	2 no. 4.0mm x 90mm nails end fixed
Splendrel panels to wall panel head	4.0mm x 90mm galvanised wire nails, 2 nails between stud centres
Multi-cripple studs should be secured to each other with 3.1mm X 64mm galvanised ringshank nails at 400mm centres, staggered mid distance between edge and centreline, with no nail closer than 60mm to end of studs.	
Lintels should be secured to each other with 3.1mm x 75mm galvanised screws or 3.1mm x 75mm galvanised ring shank nails at 300mm centres, staggered mid distance between edge and centreline, with no screw closer than 60mm to end of lintel.	



STEELWORK NOTES

- ALL NEW STEELWORK TO BE GRADES TO BE AS FOLLOWS:-
a) U.B. & U.C. STANCHIONS TO BE GRADES275 TO BSEN 10025 1993.
b) HOLLOW SECTIONS TO BE GRADE S275 TO BSEN 10210-11994.
- ALL BOLTS TO BE STRENGTH DESIGNATION 4.6 U.N.O.
- ALL WELDING TO BE IN ACCORDANCE WITH B.S EN 1011:2001
- ALL STEELWORK TO BE SHOT BLASTED TO SA 2 1/2 AND SHOP PAINTED USING ZINC PHOSPHATE EPOXY PRIMER TO GIVE 200 MICRONS MINIMUM D.F.T.
- STEELWORK TO RECEIVE FIRE PROTECTION TO ENSURE A MINIMUM PERIOD OF PROTECTION OF 60 MINUTES.



DO NOT SCALE.

- All drawings are to be read in conjunction with the Specification and all the relevant Architects and Specialists Drawings.
- It is the Contractors responsibility to check all dimensions on site. Dimensions MUST NOT be scaled from this drawing.
- Any discrepancies between this drawing and the actual site conditions should be reported immediately to the Engineer.

Structural Engineers Registration Ltd	
Certificate No.	
Approved Certifier	Donald Wilson
Registration No.	SER1-D-00225
Approved Body No.	SER1-DB-0782
Design Classification	Design Check Level
☐ BS5862 Class II Agricultural	☐ DCL1 - Self Check
☐ BS5862 Commercial / Industrial	☐ DCL2 - Simple Check
☐ Domestic	☐ DCL3 - Intermediate Check
☐ Other	☐ DCL4 - Extended Check

	Initial Issue	09.05.17	HC	GM
Rev	Amendments	Date	By	Chk.

WARRANT



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Project Title		
PROPOSED INTERNAL ALTERATION AT 28 CHAPMANS BRAE, BATHGATE		
Client		
MR & MRS A. GALLAGHER		
Drawing Title		
PROPOSED GROUND FLOOR LAYOUT WITH STRUCTURAL DETAILS & LINTEL SCHEDULE		
Scale	Sheet Size	Plot
1:50	A1	1:1
Project No.	Drawing No.	Revision
6480	001	-