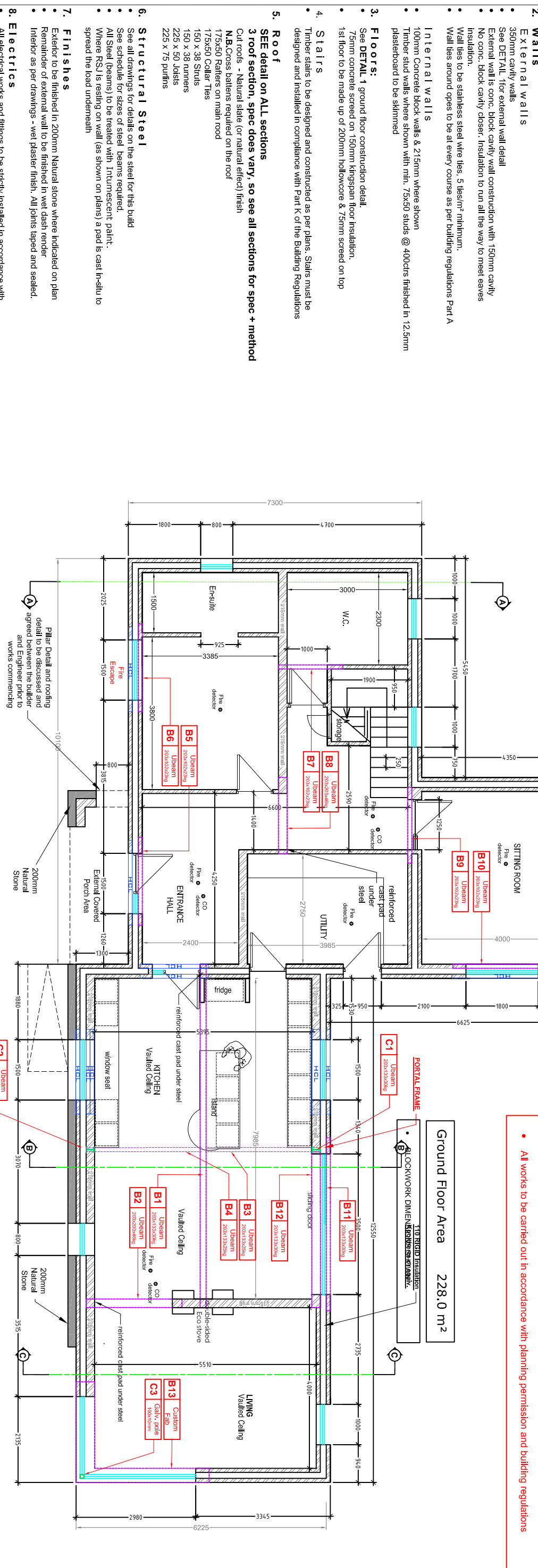


NOTES/SPECIFICATIONS:

- Foundation**
 - Raft Foundation
 - See accompanying Foundation steel Schedule for steel sizes and numbers
 - Radon barrier must be laid with a radon sump, max 11m to outside of raft
 - 35N concrete to be used.
 - Pyrite free certificate for hardcore to be issued to the engineer before concrete is poured.
 - Slump test to be carried out on each load of concrete and results recorded and provided for Engineers inspection. Slump to be max 75mm.
 - Cube test to be carried out on each load (28 day test) and result submitted to Engineer.
 - Engineer to inspect steel before concrete is poured.
- Walls**
 - External walls**
 - 350mm cavity walls
 - See DETAIL: 1 for external wall detail
 - External wall is conc. block cavity wall construction with 150mm cavity
 - No conc. block cavity closer. Insulation to run all the way to meet eaves insulation.
 - Wall ties to be stainless steel wire ties, 5 ties/m² minimum.
 - Wall ties around opens to be at every course as per building regulations Part A
- Internal walls**
 - 100mm Concrete block walls & 215mm where shown
 - Timber stud walls where shown with min. 75x50 studs @ 400ctrs finished in 12.5mm plasterboard to be skimmed
- Floors:**
 - See DETAIL: 1 ground floor construction detail.
 - 75mm concrete screed on 150mm Kingspan floor insulation.
 - 1st floor to be made up of 200mm hollowcore & 75mm screed on top
- Stairs**
 - Timber stairs to be designed and constructed as per plans. Stairs must be designed and installed in compliance with Part K of the Building Regulations
- Roof**
 - SEE detail on ALL sections**
 - 3 roof section, spec does vary, so see all sections for spec + method**
 - Cut roofs - Natural slate (or natural effect) finish
 - N.B. Cross battens required on the roof
 - 175x50 Rattens on main roof
 - 175x50 Collar Ties
 - 150 X 38 Struts
 - 150 X 38 runners
 - 225 X 50 Joists
 - 225 X 75 purlins
- Structural Steel**
 - See all drawings for details on the steel for this build
 - See schedule for sizes of steel beams required.
 - All Steel (beams) to be treated with Intumescent paint.
 - Where RSJs resting on wall (as shown on plans) a pad is cast in-situ to spread the load underneath
- Finishes**
 - Exterior to be finished in 200mm Natural stone where indicated on plan
 - Remainder of external wall to be finished in wet dash render
 - Interior as per drawings - Wet plaster finish. All joints taped and sealed.
- Electrics**
 - All electrical works and fittings to be strictly installed in accordance with the latest regulations. Mains supply - the contractor shall arrange with the Electrically supplier for supply and provide underground ducting and meter chamber
 - Wired Smoke alarms to be fitted in all habitable rooms as per Part B of Regulations
 - Carbon Monoxide alarms to - Where a new or replacement open-flued or fuelless combustion appliance, not designed solely for cooking purposes, is installed in a dwelling, a carbon monoxide (CO) alarm should be provided:
 - (a) in the room where the appliance is located, and
 - (b) either inside each bedroom or, within 5 m (16 ft.) of the bedroom door, measured along the path of the corridor.
- Air tightness**
 - Air tightness result expected: 1m³/h.m²@50Pa, for the extension.
 - Air tightness, continuity of thermal insulation and very careful installation of same will be an essential element of this build. Cold bridging must be eliminated in the building.
- Heating -**
 - Refer to Building Energy Assessment (BEA)
 - Air to water Heat pump system
 - Ventilation to be Heat recovery
- Window & Doors**
 - Windows and door to be decided by client. U value to be minimum 0.8W/m²K
 - Front External door to be of timber construction.

- Insulation**
 - Floor - Kooltherm (or equivalent) 150mm with 30mm vertical strip of K3 around wall edges
 - Cavity walls - 110mm Kooltherm (or equivalent) rigid insulation
 - Cavity Closers - Kooltherm cavity closers to be used to close off cavities at reveals and sills to prevent cold bridging.
- External Works**
 - New driveway - levelled ready for Tarmac
 - Keirbing 150mm kerbs
 - 1000mm footpath surrounding house
 - connection to services
 - Level out site ready for seeding



STEEL SCHEDULE Must be read in conjunction with plans and sections supplied
*Please note, all dimensions must be checked on site by the contractor prior to ordering of steel

ITEM	DRG. REF.	SIZE/CODE	LENGTH	Total No.	NOTE
B1		UNIVERSAL BEAM			
B2		UNIVERSAL BEAM			
B3 - B4		UNIVERSAL BEAM			
B5 - B6		UNIVERSAL BEAM			
B8		UNIVERSAL BEAM			
B9		UNIVERSAL BEAM			
B10		UNIVERSAL BEAM			
B11		UNIVERSAL BEAM			
B12		UNIVERSAL BEAM			
B13		CUSTOM FAB CORNER			
C1 - C2		STEEL POLE			
C1		STEEL POLE			

ITEM	DRG. REF.	SIZE/CODE	LENGTH	Total No.	NOTE
B1		254 X 146 X 31KG	8550	2	
B2		203 X 203 X 46KG	2450	1	Can be replaced with 2 no. 203 x 102
B3 - B4		203 X 133 X 30KG	4400	2	
B5 - B6		203 X 102 X 23KG	2400	2	
B8		203 X 102 X 23KG	1900	1	
B9		203 X 102 X 23KG	2050	1	Can be replaced with 2 no. 203 x 102
B10		203 X 102 X 23KG	2600	1	
B11		203 X 133X 25KG	4300	1	Can be replaced with 2 no. 203 x 102
B12		203 X 203 X 46KG	3900	1	
B13		TBC	TBC	1	Thermal Corner Ural STEELITE or SIMILAR To be approved by Engineer
C1 - C2		203 X 133X 30KG	2750*	1	*Length TBC on site
C1		100mm x 10mm	2750*	1	GAUVANIZED Plate welded top and bottom *Length TBC

STEEL SCHEDULE Must be read in conjunction with plans and sections supplied
*Please note, all dimensions must be checked on site by the contractor prior to ordering of steel

ITEM	DRG. REF.	SIZE/CODE	LENGTH	Total No.	NOTE
B1		UNIVERSAL BEAM			
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B10		UNIVERSAL BEAM			
B11		UNIVERSAL BEAM			
B12		UNIVERSAL BEAM			
B13		CUSTOM FAB CORNER			
C1 - C2		STEEL POLE			
C1		STEEL POLE			

IMPORTANT NOTES:

- All conditions of Pl. Ref. no. 21/17 are to be complied with.
- Any proposed variations from the details in these drawings must be first agreed with the Engineer.

CYRIL J KELLY & ASSOC.
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Client: Pamela Crowe + Jason O'Neill
Project: Dwelling House
Drawing: Structural Plans

REVISION P1 DRAWING NO. PJ21-CS-102
Date: April 2021
Drawn By: CMT
Checked By: CJK

Drawing Status: BCMS ISSUE

Rev.	Date	Description	By	Checked
P1		BCMS ISSUE	CMT	CJK

T E N D E R