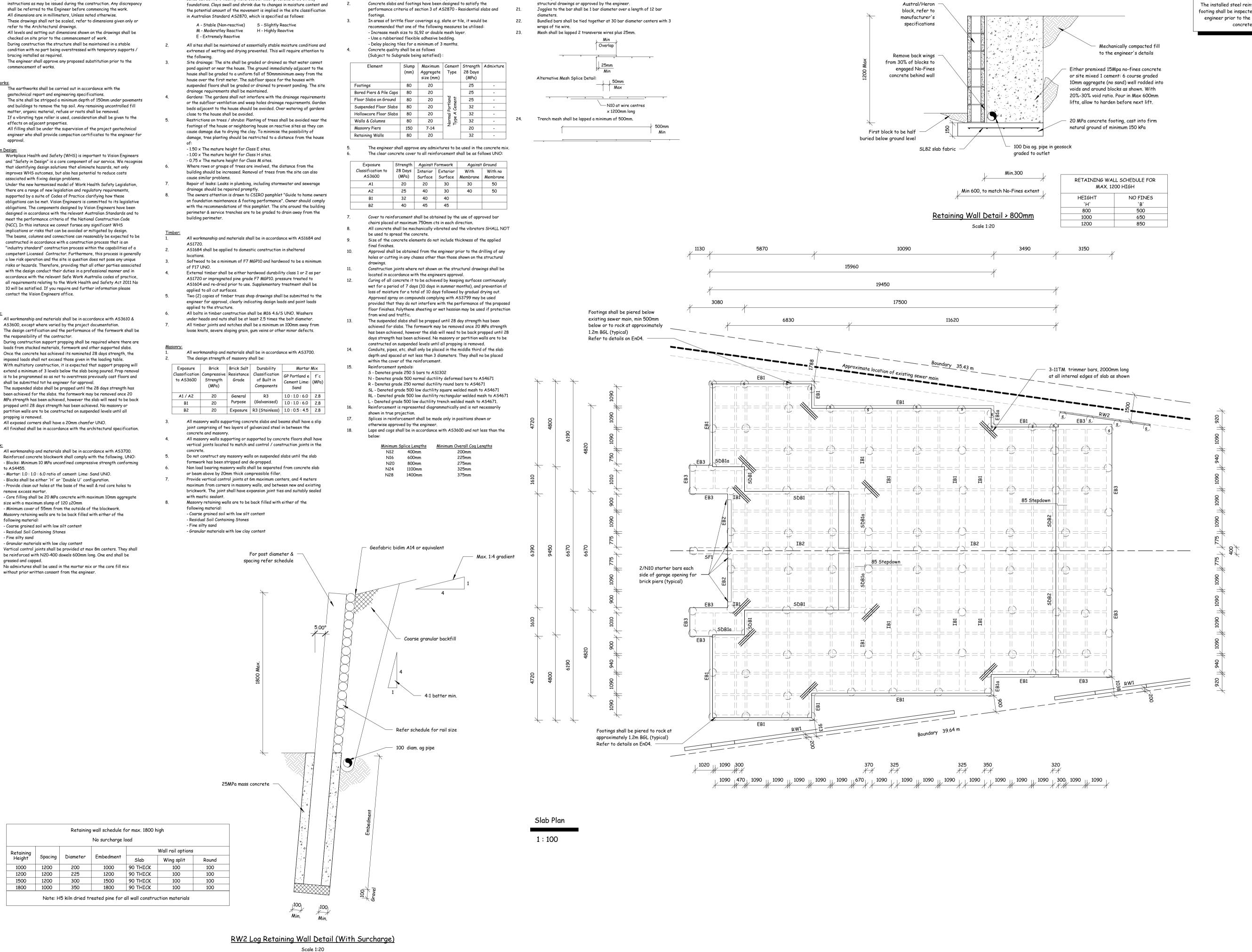
# General Notes: 1. These drawings shall be read in conjunction with the architectural and other consultants drawings / specifications and with other such written instructions as may be issued during the construction. Any discrepancy shall be referred to the Fnaineer before commencing the work. All dimensions are in millimeters. Unless noted otherwise. refer to the Architectural drawings. checked on site prior to the commencement of work. commencement of works. <u>Earthworks:</u> The earthworks shall be carried out in accordance with the geotechnical report and engineering specifications. matter, organic material, refuse or roots shall be removed. effects on adjacent properties. Safety in Design: improves WHS outcomes, but also has potential to reduce costs associated with fixing design problems there are a range of new legislation and regulatory requirements, supported by a suite of Codes of Practice clarifying how these (NCC). In this instance we connot forsee any significant WHS implications or risks that can be avoided or mitigated by design. contact the Vision Engineers office. AS3600, except where varied by the project documentation. the responsibility of the contractor. imposed loads shall not exceed those given in the loading table. shall be submitted tot he engineer for approval. propped until 28 days strength has been achieved. No masonry or partition walls are to be constructed on suspended levels until all propping is removed All exposed corners shall have a 20mm chamfer UNO. - Mortar: 1.0: 1.0: 6.0 ratio of cement: Lime: Sand UNO. - Blocks shall be either 'H' or 'Double U' configuration. remove excess mortar. - Minimum cover of 55mm from the outside of the blockwork. Masonry retaining walls are to be back filled with either of the following material: - Coarse grained soil with low silt content - Residual Soil Containing Stones - Fine silty sand - Granular materials with low clay content be reinforced with N20-400 dowels 600mm long. One end shall be greased and capped No admixtures shall be used in the mortar mix or the core fill mix without prior written consent from the engineer.

Foundation Maintenance:

All soils are affected by water. Silts are weakened by water and some

sands can settle if heavily watered, but most problems arise on clay



Site bending of deformed reinforcing bars shall be done without heating

Welding of the reinforcement shall not be permitted unless shown on the

and using mechanical bending tools.

All workmanship and materials shall be in accordance with AS3600 &

AS2870, except where varied by the project documentation.

General Notes 1. Bracing and tie-down details to the FOOTING INSPECTION REQUIRED engineers details and AS1684.2 The installed steel reinforcing for the 2. All timber and steel to be installed footing shall be inspected by the design and treated to the manufacturers engineer prior to the placement of specifications, expecially for any concrete exterior applications 3. All white ant protection to be strictly within the guidelines of AS3660 and installed by a qualified licenced pest control consultant 4. AJ denotes masonary articulation joint, to be installed to AS 3700 section 4.8 requirements

> Finished Ground Level Note Ensure ground surface is sloped away from subfloor/footing, provide additional drainage as required to ensure no water ponds near footings

Note: boundaries to be pegged and setout confirmed before commencement of construction



Note: All construction, especially timber components to comply, with AS3959-2009, and planning for bushfire protection 2006, for Bal-12.5 construction. In particular note types of timbers that can be used in the Bal-12.5 zone. Excerpt from AS3959-2009 attached to last sheet



138 Dora Street, Dora Creek NSW 2264 M/ 0490 444 007

**BUILDERS NOTE:** 

Use Dimensions in preference to scale. Site verify all dimensions before ordering Materials Footings information shown of these plans may have to be changed if Builders site excavations reveal non-virgin ground. Consultation of Plan Vision Australia Pty Ltd would then be necessary to determine the required changes. Materials are under no circumstances to be ordered direct off plans. Materials to be ordered are only to be ordered from a Builders or applicable product manufacturers seperate site confirmed Materials list. Plans are not intended to be the absolute medium for construction information accuracy due to site discrepencies. See schedule of specifications for further

Wind Class: N2 (W33N) (Assumed) Site Class: 'M' Soil Class: 'M' Site / Soil Class Assumed

**SURVEY NOTE:** 

Boundary dimensions are assumed only and taken from site information, others or owners information Confirm boundaries before commencement of construction. Full project specific detailed survey plans have not been supplied to Plan Vision for See schedule of specifications for details.

Rev	Date	Description	
A	14/07/20	VEA Eng	
В	15/07/20	Changes	
С	01/09/20	Internal Garage Length Changes	

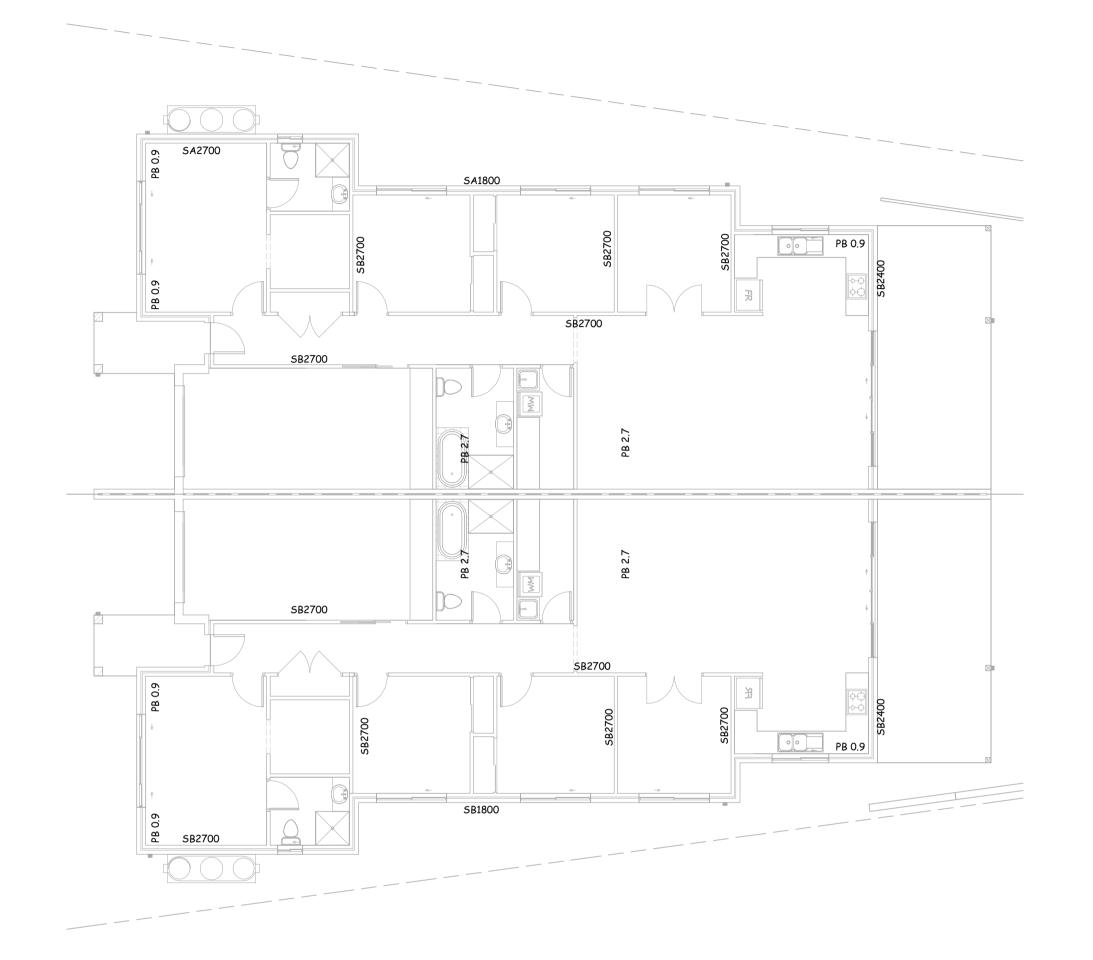
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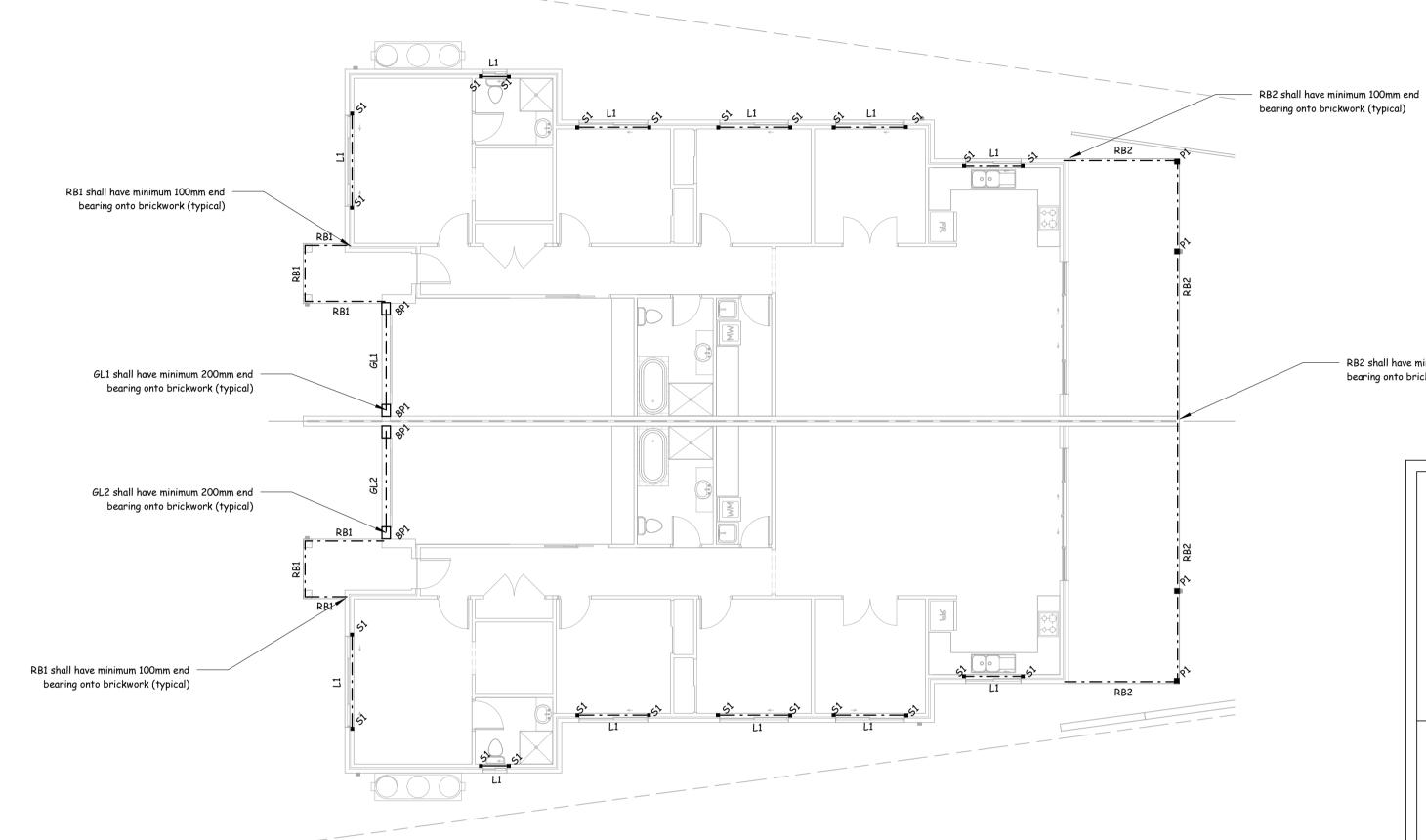
Address:

22-06-2020 Drawing No: 320-7128 En01

As indicated @ A1







## Ground Floor Framing

1:100

Ground Floor Roof Framing

1:100

Member Schedule (Ground Floor Roof)							
Member	Description	Size					
RB1	Beam	140 × 45 MGP10 H3					
RB2	Beam	240 x 75 SmartLVL15 H3 (continuous spans)					
L1	Lintel	Refer to Typical Lintel Tables on EnO3 for sizing					
GL1	Garage Lintel	200 x 10 Vert, 200 x 10 Horiz, HDG					
GL2	Garage Lintel	200 x 10 Vert, 200 x 10 Horiz, HDG					
P1 Post		140 SQ KD HWD					
51	Studs	2/90 × 45 MGP10, Nail laminated					
BP1	Brick Pier	Minimum 230mm × 300mm brick piers 2/N10 vertical					
		bars, Grout filled full height					

Note - Lintel sizes to be confirmed once truss layouts are done

## <u>General Notes</u> 1. Bracing and tie-down details to the

engineers details and AS1684.2 2. All timber and steel to be installed and treated to the manufacturers specifications, expecially for any exterior applications 3. All white ant protection to be strictly within the guidelines of AS3660 and installed by a qualified licenced pest control consultant 4. AJ denotes masonary articulation joint, to be installed to AS 3700 section 4.8 requirements

<u>Tie-Down Notes</u> 1. Rafters shall have tie-down fixings in accordance with AS1684.2 Table 9.21 (B), (C) or (D) (typical). 2. Roof beams shall have tie-down fixings similar to AS1684.2 Table 9.20(A) - 6 nails each end - for where a roof beam sits on stud work. 3. Roof beams shall have tie-down fixings in accordance to AS1684.2 Table 9.20(I) - 2/M12 bolts with washers (typical).

> Note: boundaries to be pegged and setout confirmed before commencement of construction

Note: All construction, especially timber components to comply, with AS3959-2009, and planning for bushfire protection 2006, for Bal-12.5 construction. In particular note types of timbers that can be used in theBal-12.5 zone. Excerpt from AS3959-2009 attached to last sheet

RB2 shall have minimum 100mm end bearing onto brickwork (typical)



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### **BUILDERS NOTE:**

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Wind Class: N2 (W33N) (Assumed) Site Class: 'M' Soil Class: 'M' Site / Soil Class Assumed

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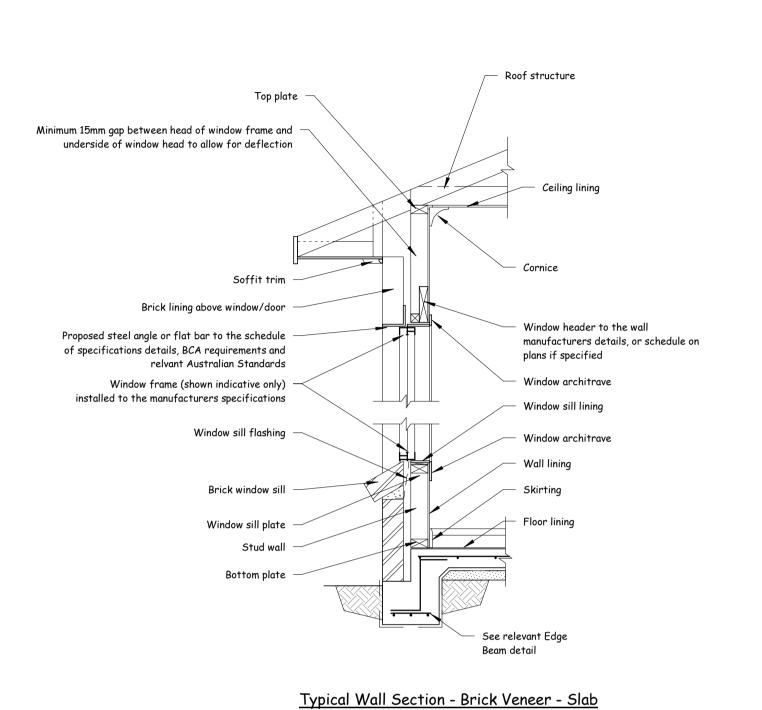
Rev	Date	Description
4	14/07/20	VEA Eng
3	15/07/20	Changes
С	01/09/20	Internal Garage Length Changes

Client:

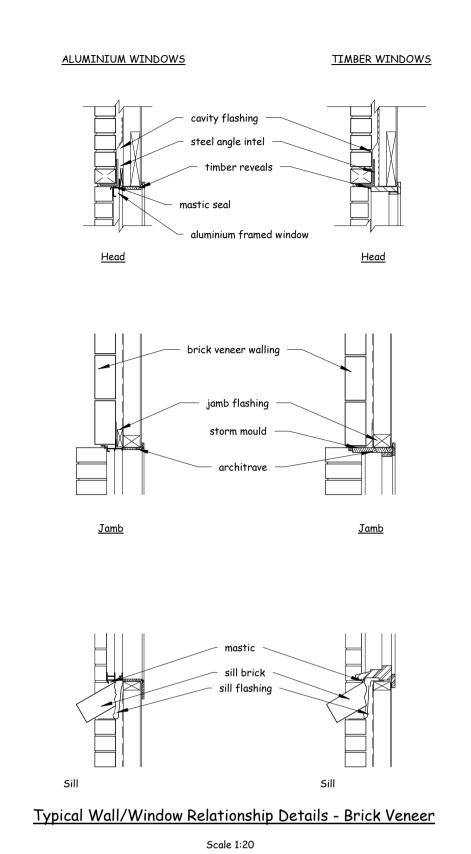
Address:

Sheet:	En02
Drawing No:	320-7128
Date:	22-06-2020

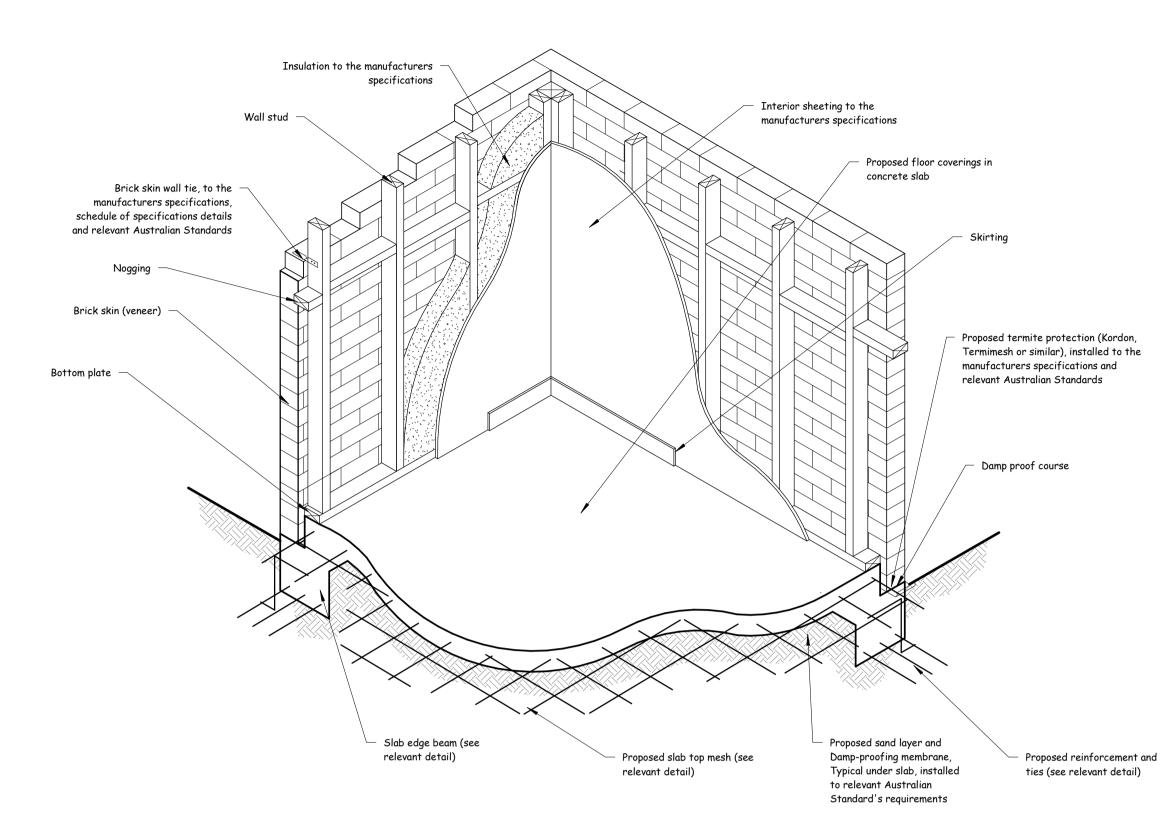
1:100 @ A1



Scale 1:20

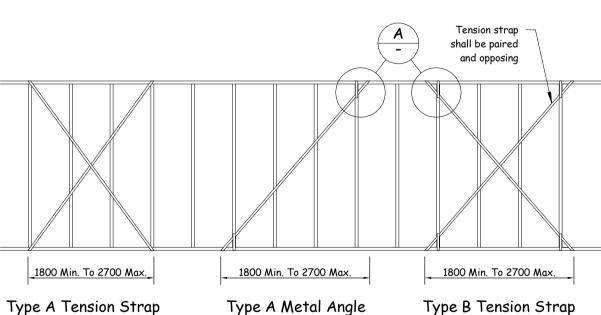


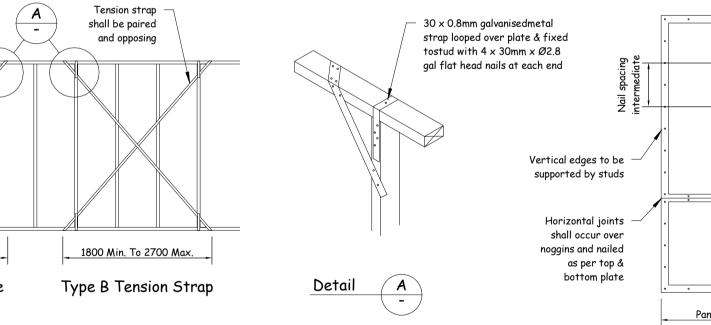
Nail spacing edge



Typical 3D Construction Detail - Brick Veneer - Slab

Scale 1:20





Type A - She	et Bracing (PA) Spec	cifics - 3.4 kN/m l	[Table 8.18(G)]

776 7. Sheet Bracking (177) specifies St. 1847 18 [142]										
Product	Australian	Type /	Minimum Thickness For Stud Spacing (mm)		Panel	Nail	Nail	Spacing (mm)	Special Requirements	
rioduci	Standard	Grade			Length		Edge	Intermediate		
			450	600	(mm)	(mm)	9-			
Plywood	AS2269	F8 F11 F14 F27	7 4.5 4 3	9 7 6 4.5	900	30mm × Ø2.8 <i>G</i> alv.	150	300	No nogging req'd Except at sheet Ends. Nails shall Be 7mm from all Edges	
Hardboard (Masonite)	AS2458	G.P.	6.4	6.4	900	30mm × Ø2.8 Galv.	100	300	Nails to be 10mm From vertical Edges & 20mm from Horizontal edges. No nogging req'd Except at sheet Ends.	

1. Panel lengths greater than those listed above can be considered as a number of bracing units directly proportioned to their installed length I.E. A 1200mm panel of plywood equals 2. Nails should be driven just below the surface of the sheet using the hammer face only. Nails must not be punched Nelwood panel lengths of 600mm are equivalent to 1/5 of a type a broacing unit.
 Flywood panel lengths of 600mm are equivalent to 1/5 of a type a broacing unit.
 For stud spacing of 600mm c/c where noggins are installed and the plywood bracing panels are nailed to the noggins at 1500mm c/c, the plywood thickness may be as for stud spacing at 450mm c/c.
 P.A\* indicates full length available.
 Refer to A51684.2 Table 8.18(6) for top & bottom plate fixing details.

Type A - Strap Bracing (SA) Specifics - 1.5 kN/m [Table 8.18(B)]

<b>/</b> 1	1 3 7 1	•	•	` '-	
Type Of	Material & Size	Nailing Re	quirements	Special Requirements	
Diagonal Brace		To Each Stud	To Each Plate		
Metal Angle	Galvanised angle, nom. Section 20x18x1.2mm min. Net section 42mm²	1x30xØ2.8mm Galv. Flat head nail	2x30xØ2.8mm Galv. Flat head nail	Drill holes if necessary to prevent nail splitting	
Tension Strap	Galvanised flat metal tension strapping of min. Thickness 0.8mm & min. Net section of 15.2mm <sup>2</sup>	1x30xØ2.8mm Galv. Flat head nail	3x30xØ2.8m m Galv. Flat head nail	Straps must be properly tensioned	

30 x 0.8mm galvanisedmetal strap looped over plate & fixed tostud with 4 x 30mm x Ø2.8 gal flat head nails at each end	intermediate		مهمه والمعاد العدا
Vertical edges to be supported by studs			
Horizontal joints shall occur over noggins and nailed as per top & bottom plate		Panel length	

	Sheet Bracing Details
Type B - Sheet Bracing (PB) Specifics - 6.0 kN/m [Table 8.18(M)]	J

	Product	Australian	Type / Grade	Minimum Thickness For		Panel Nail Length Size		Nail .	Spacing (mm)	Special Requirements
s		Standard		Stud Spacing (mm)	Size		Size Edge	Intermediate		
				450	600	(mm)	(mm)	Luge	Intermediate	
ds.	Plywood	AS2269	F8 F11 F14 F27	7 6 4 4	9 7 6 4.5	900 / 1200	30mm × Ø2.8 <i>G</i> alv.	50 to plates & 150 to edge stu	300	No nogging req'd except at sheet ends. Nails shall be 7mm from all edges
rom mm ges.	Hardboard (Masonite)	AS2458	G.P.	6.4	6.4	900 / 1200	30mm × Ø2.8 Galv.	50 to plates & 150 to edge stu	300	Nails to be 10mm fron vertical edges & 20mn from horizontal edges No nogging req'd except at sheet ends.

1. Panel lengths greater than those listed above can be considered as a number of bracing units directly proportioned to their installed length I.E. A 1200mm panel of plywood equals 1200 / 1. Fune lengths greater than those instead above can be considered as a number of britishing sineshy proportioned to 900 = 1.35 bracing units.

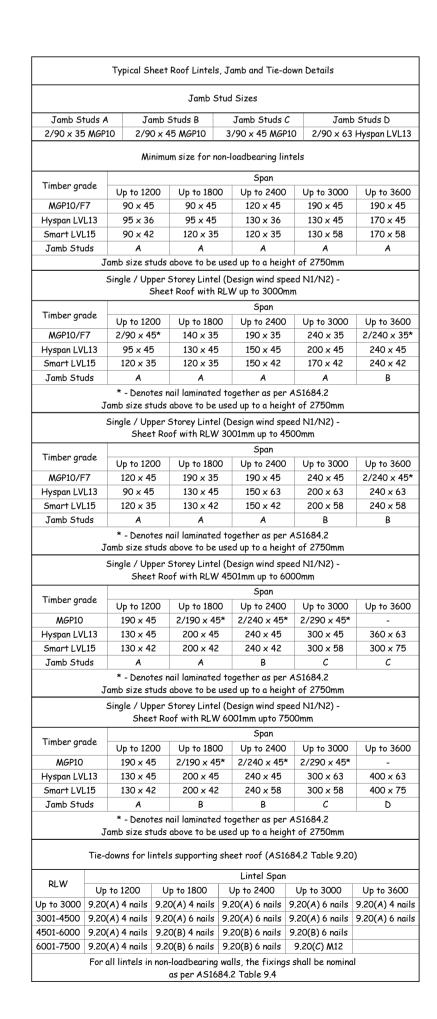
2. Nails should be driven just below the surface of the sheet using the hammer face only. Nails must not be punched

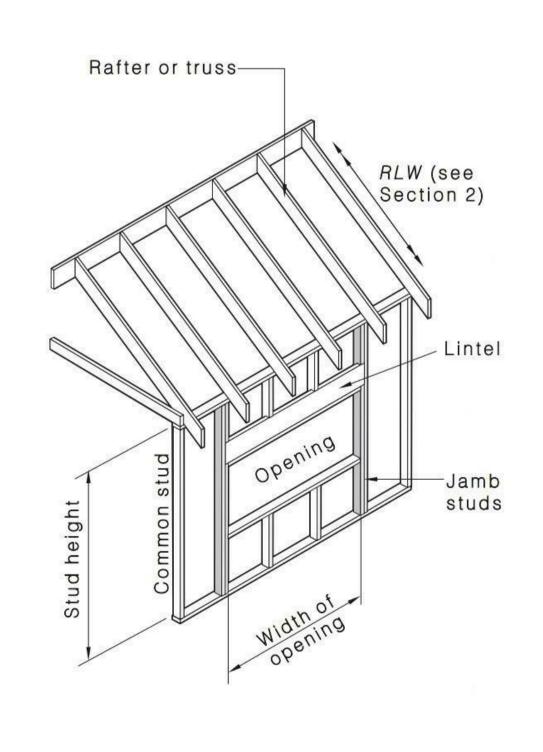
3. P87 indicates full length available.

4. Refer to AS1684.2 Table 8.18(M) for top & bottom plate fixing details.

## Type B - Strap Bracing (SB) Specifics - 3.0 kN/m [Table 8.18(D)]

Type Of	Material & Size	Nailing Re	quirements	Special Requirements	
Diagonal Brace		To Each Stud	To Each Plate		
Tension Strap	Galvanised flat metal tension strap nom. Size 30x0.8mm & min. Section of 24mm <sup>2</sup>	2/30xØ3.15mm galv. Flat head nail	4/30xØ2.8mm galv. Flat head nail	Straps must be properly tensioned & strap mus return over top plate & under the bottom plate. The stud nearest to each end of each diagonal strap shall be fixed to the plates with straps of framing anchors 4x30xe2.8mm nails at each end	





Note: All construction, especially timber components to comply, with AS3959-2009, and planning for bushfire protection 2006, for Bal-12.5 construction. In particular note types of timbers that can be used in theBal-12.5 zone. Excerpt from AS3959-2009 attached to last sheet



Vision Engineers Australia 138 Dora Street Dora Creek, NSW 2264 M/ 0490 444 00 enquiries@visioneng.com.au www.visionengineers.com.au

I hereby certify that the above mentioned works are structurally adequate for their intended purpose. This certification is limited to the structural elements detailed, and based on the works being carried out in accordance with these structural/civil plans. The structure has been designed in accordance with the

- AS/NZS 1170.0:2002: Structural design actions - General principles - AS/NZS 1170.1:2002: Structural design actions - Permanent, imposed & other

- AS/NZS 1170.2:2011: Structural design actions - Wind actions

- AS 4055-2012: Wind Loads For Housing - AS 4100-1998: Steel Structures

- AS 1163-1991: Structural Steel Hollow Sections - AS/NZS 1111-1996: ISO Metric Hexagon Commercial Bolts & Screws

- AS 3600-2009: Concrete Structures. - AS 3700-2011: Masonry Structures

- AS 2870-2011: Residential slabs and footings - Construction - AS 1684-2010: Residential timber framed construction

- AS 1720.1-2010: Timber Structures - Design Methods - AS 3959-2009: Construction of buildings in bushfire prone areas - Building Code of Australia (BCA)

All works to be carried out by a licensed builder in accordance with the current edition of the Building Code of Australia (BCA) and relevant Australian Standards for construction.

Based on the above parameters, I hereby certify that the structural components are adequate under the imposed loading provided that they are constructed in accordance with the relevant Australian Standards. I certify that I am a qualified and practising Structural Engineer in accordance with the requirements of the Building Code of Australia and The Institution of Engineers, Australia.

Malmer

Murray Palmer BEng (Civil & Structural) Hons Member No: 3798337 Principal Engineer



138 Dora Street, Dora Creek NSW 2264

M/ 0490 444 007 **BUILDERS NOTE:** Use Dimensions in preference to scale. Site

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> Wind Class: N2 (W33N) (Assumed) Site Class: 'M' Soil Class: 'M'

Site / Soil Class Assumed SURVEY NOTE: Boundary dimensions are assumed only and taken from site information, others or owners information.

schedule of specifications for further

Confirm boundaries before commencement of construction. Full project specific detailed survey plans have not been supplied to Plan Vision for

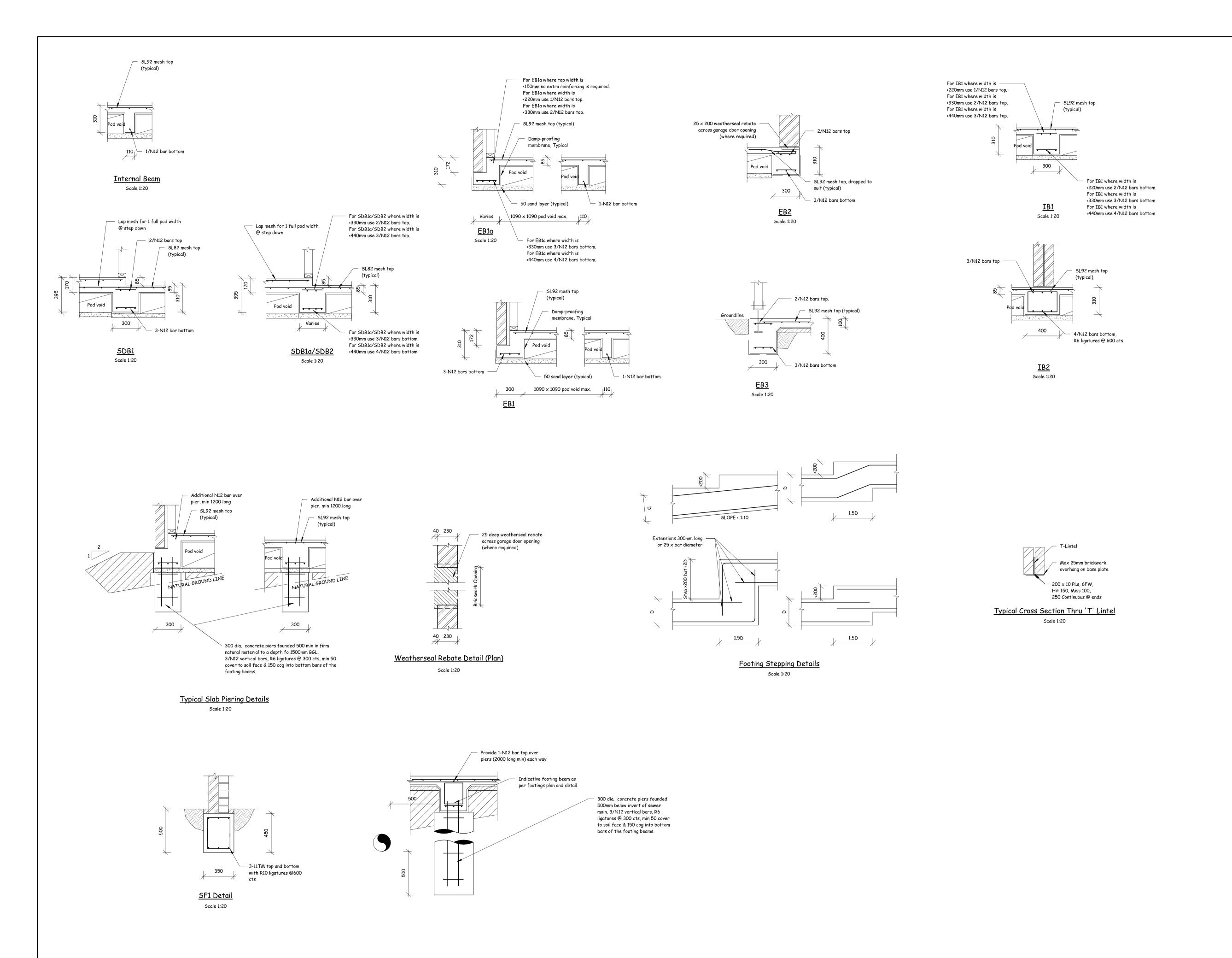
See schedule of specifications for details.

**Revision Schedule** New Dwelling Client:

Address:

22-06-2020 Drawing No: 320-7128

En03 As indicated @ A1







138 Dora Street, Dora Creek NSW 2264 M/ 0490 444 007

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details.

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Revision Schedule

New Dwelling

Client:

Address:

22-06-2020 Drawing No: 320-7128 En04

1:20 @ A1