



## **DEVELOPMENT APPLICATION**

### **PDPLANPMTD-2026/061916**

**PROPOSAL:** Dwelling

**LOCATION:** 59 Dolina Drive, Rokeby

**RELEVANT PLANNING SCHEME:** Tasmanian Planning Scheme - Clarence

**ADVERTISING EXPIRY DATE:** 06/07/2026

The relevant plans and documents can be inspected at the Council offices, 38 Bligh Street, Rosny Park, during normal office hours until 06/07/2026. In addition to legislative requirements, plans and documents can also be viewed at [www.ccc.tas.gov.au](http://www.ccc.tas.gov.au) during these times.

Any person may make representations about the application to the Chief Executive Officer, by writing to PO Box 96, Rosny Park, 7018 or by electronic mail to [clareance@ccc.tas.gov.au](mailto:clareance@ccc.tas.gov.au). Representations must be received by Council on or before 06/07/2026.

To enable Council to contact you if necessary, would you please also include a day time contact number in any correspondence you may forward.

Any personal information submitted is covered by Council's privacy policy, available at [www.ccc.tas.gov.au](http://www.ccc.tas.gov.au) or at the Council offices.

## Application for Development / Use or Subdivision

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Use this form to obtain planning approval for developing or using land, including subdividing it into smaller lots or lot consolidation.

Proposal: Construction of a single dwelling

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Location: **59 Dolina Drive ROKEBY**

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**Personal Information Removed**

Is the property on the Tasmanian Heritage Register? Yes  No

If yes, we recommend you discuss your proposal with Heritage Tasmania prior to lodgement as exemptions may apply which may save you time on your proposal.

If you had pre-application discussions with City of Clarence, please provide planner's name:

N/A

Current use of site: **Vacant Land**

Does the proposal involve land administered or owned by the Crown or Council? Yes  No

**Declaration**

- I have read the Certificate of Title and Schedule of Easements for the land and am satisfied that this application is not prevented by any restrictions, easements or covenants.
- I authorise the provision of a copy of any documents relating to this application to any person for the purposes of assessment or public consultation. I agree to arrange for the permission of the copyright owner of any part of this application to be obtained. I have arranged permission for Council's representatives to enter the land to assess this application
- I declare that, in accordance with Section 52 of the Land Use Planning and Approvals Act 1993, that I have notified the owner of the intention to make this application. Where the subject property is owned or controlled by Council or the Crown, their signed consent is attached.
- I declare that the information in this declaration is true and correct.

**Acknowledgement**

- I acknowledge that the documentation submitted in support of my application will become a public record held by Council and may be reproduced by Council in both electronic and hard copy format in order to facilitate the assessment process; for display purposes during public consultation; and to fulfil its statutory obligations. I further acknowledge that following determination of my application, Council will store documentation relating to my application in electronic format only.

**Personal Information Removed**

Please refer to the development/use and subdivision checklist on the following pages to determine what documentation must be submitted with your application.



SEARCH OF TORRENS TITLE

VOLUME 188393	FOLIO 147
EDITION 2	DATE OF ISSUE 05-Nov-2025

SEARCH DATE : 04-June-2026

SEARCH TIME : 08.47 am

DESCRIPTION OF LAND

City of CLARENCE

Lot 147 on Sealed Plan [188393](#)

Derivation : Part of Lot 37617, 56.81ha Gtd. to The Director-General of Housing & Construction

Prior CT [186365/507](#)

SCHEDULE 1

[M535627](#) TRANSFER to DAESUNGTAS PTY LTD Registered  
03-Nov-2015 at noon

SCHEDULE 2

Reservations and conditions in the Crown Grant if any  
[SP188393](#) EASEMENTS in Schedule of Easements  
[SP188393](#) COVENANTS in Schedule of Easements  
[SP188393](#) FENCING PROVISION in Schedule of Easements  
[SP142549](#) & [SP184319](#) COVENANTS in Schedule of Easements  
[SP184319](#) FENCING PROVISION in Schedule of Easements  
[SP142549](#) FENCING COVENANT in Schedule of Easements  
[SP142549](#) WATER SUPPLY RESTRICTION  
[SP142549](#) SEWERAGE AND/OR DRAINAGE RESTRICTION

UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

<p><b>SCHEDULE OF EASEMENTS</b></p> <p><b>NOTE:</b> THE SCHEDULE MUST BE SIGNED BY THE OWNERS &amp; MORTGAGEES OF THE LAND AFFECTED. SIGNATURES MUST BE ATTESTED.</p>	<p>Registered Number</p> <p style="font-size: 2em;"><b>SP 188393</b></p>
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PAGE 1 OF 8 PAGES

EASEMENTS AND PROFITS

Each lot on the plan is together with:

- (1) such rights of drainage over the drainage easements shown on the plan (if any) as may be necessary to drain the stormwater and other surplus water from such lot; and
- (2) any easements or profits a prendre described hereunder.

Each lot on the plan is subject to:

- (1) such rights of drainage over the drainage easements shown on the plan (if any) as passing through such lot as may be necessary to drain the stormwater and other surplus water from any other lot on the plan; and
- (2) any easements or profits a prendre described hereunder.

The direction of the flow of water through the drainage easements shown on the plan is indicated by arrows.

**EASEMENTS**

Lots 30 to 37 (inclusive) on the Plan (“the Lots”) are subject to a PIPELINE AND SERVICES EASEMENT (as defined herein) in gross in favour of TasWater over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT 3.00 WIDE (SP.184319)** shown on the Plan (“the Easement Land”).

Lots 30 to 37 (inclusive) on the Plan are subject to a Drainage Easement (as defined herein) in gross in favour of the Clarence City Council over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT 3.00 WIDE (SP.184319)** on the Plan.

Lot 35 on the Plan (“the Lot”) is subject to a PIPELINE AND SERVICES EASEMENT (as defined herein) in gross in favour of TasWater over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘A’ 3.00 WIDE (P.187512)** shown on the Plan (“the Easement Land”).

Lot 35 on the Plan is subject to a Drainage Easement (as defined herein) in gross in favour of the Clarence City Council over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘A’ 3.00 WIDE (P.187512)** on the Plan.

\_\_\_\_\_  
 Director Director/Secretary

(USE ANNEXURE PAGES FOR CONTINUATION)

<p>SUBDIVIDER: DAESUNGTAS PTY LTD                  FOLIO REF: 186365/507                  SOLICITOR                  &amp; REFERENCE: Page Seager (DAS 221111)</p>	<p>PLAN SEALED BY: Clarence City Council                  DATE: <u>14<sup>th</sup> March 2025</u>                  REF NO. SD-2016/31</p> <p style="text-align: right;"><i>Clare Shee</i>                  Clare Shee                  Council Delegate</p>
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**NOTE:** The Council Delegate must sign the Certificate for the purposes of identification.

<p><b>ANNEXURE TO SCHEDULE OF EASEMENTS</b></p> <p>PAGE 2 OF 8 PAGES</p>	<p>Registered Number</p> <p><b>SP 188393</b></p>
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Lot 23 on the Plan (“the Lot”) is subject to a PIPELINE AND SERVICES EASEMENT (as defined herein) in gross in favour of TasWater over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘B’ VARIABLE WIDTH (P.187512)** shown on the Plan (“the Easement Land”).

Lot 23 on the Plan is subject to a Drainage Easement (as defined herein) in gross in favour of the Clarence City Council over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘B’ VARIABLE WIDTH (P.187512)** on the Plan.

Lots 38 to 43 (inclusive) on the Plan (“the Lots”) are subject to a PIPELINE AND SERVICES EASEMENT (as defined herein) in gross in favour of TasWater over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘C’ VARIABLE WIDTH (P.187512)** shown on the Plan (“the Easement Land”).

Lots 38 to 43 (inclusive) on the Plan are subject to a Drainage Easement (as defined herein) in gross in favour of the Clarence City Council over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘C’ VARIABLE WIDTH (P.187512)** on the Plan.

Lot 126 on the Plan (“the Lot”) is subject to a PIPELINE AND SERVICES EASEMENT (as defined herein) in gross in favour of TasWater over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘D’ 3.00 WIDE (P.187512)** shown on the Plan (“the Easement Land”).

Lot 126 on the Plan is subject to a Drainage Easement (as defined herein) in gross in favour of the Clarence City Council over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘D’ 3.00 WIDE (P.187512)** on the Plan.

Director  Director/Secretary 

**NOTE:** Every annexed page must be signed by the parties to the dealing or where the party is a corporate body be signed by the persons who have attested the affixing of the seal of that body to the dealing.

<p><b>ANNEXURE TO SCHEDULE OF EASEMENTS</b></p> <p>PAGE 3 OF 8 PAGES</p>	<p>Registered Number</p> <p><b>SP 188393</b></p>
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Lots 141 to 146 (inclusive) on the Plan (“the Lots”) are subject to a PIPELINE AND SERVICES EASEMENT (as defined herein) in gross in favour of TasWater over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘E’ 3.00 WIDE (P.187512)** shown on the Plan (“the Easement Land”).

Lots 141 to 146 (inclusive) on the Plan are subject to a Drainage Easement (as defined herein) in gross in favour of the Clarence City Council over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘E’ 3.00 WIDE (P.187512)** on the Plan.

Lots 156 to 161 (inclusive) on the Plan (“the Lots”) are subject to a PIPELINE AND SERVICES EASEMENT (as defined herein) in gross in favour of TasWater over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘F’ 3.00 WIDE (P.187512)** shown on the Plan (“the Easement Land”).

Lots 156 to 161 (inclusive) on the Plan are subject to a Drainage Easement (as defined herein) in gross in favour of the Clarence City Council over the land marked **PIPELINE AND SERVICES EASEMENT & DRAINAGE EASEMENT ‘F’ 3.00 WIDE (P.187512)** on the Plan.

Lots 161 to 163 (inclusive) on the Plan are subject to a Drainage Easement (as defined herein) in gross in favour of the Clarence City Council over the land marked **DRAINAGE EASEMENT ‘G’ 2.50 WIDE (P.187512)** on the Plan.

Lots 37 and 38 on the Plan (“the Lots”) are subject to a PIPELINE AND SERVICES EASEMENT (as defined herein) in gross in favour of TasWater over the land marked **PIPELINE AND SERVICES EASEMENT 2.50 WIDE (SP.184319)** shown on the Plan (“the Easement Land”).

Lots 37, 38 and 39 on the Plan are subject to a Drainage Easement (as defined herein) in gross in favour of the Clarence City Council over the land marked **DRAINAGE EASEMENT 2.50 WIDE (SP.184319)** on the Plan.

Director  Director/Secretary 

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<p><b>ANNEXURE TO SCHEDULE OF EASEMENTS</b></p> <p>PAGE 4 OF 8 PAGES</p>	<p>Registered Number</p> <p><b>SP 188393</b></p>
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Each lot on the Plan is together with a right of way created by and fully described in the Schedule of Easements to SP 142549 over the land marked **RIGHT OF WAY (PRIVATE) 10.06 WIDE (SP.142549)** on the Plan.

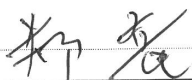
Each lot on the Plan is together with a right of carriageway and service easement created by and fully described in C849483 over the land marked **RIGHT OF WAY (PRIVATE) & SERVICE EASEMENT 20.00 WIDE (P.154357) (created by C849483)** on the Plan.

**COVENANTS**

The owner of each Lot on the Plan covenants with the Vendor (Daesung as Pty Ltd) and the Owner or Owners for the time being of every other Lot shown on the Plan to the intent that the burden of these covenants may run with and bind the covenantor's Lot and every part thereof and that the benefit thereof shall be annexed to and devolve with each and every part of every other Lot shown on the plan to observe the following stipulations:

1. Not to subdivide that Lot at any time without the prior consent in writing of the Corporation.
2. Not to erect on that Lot more than a single residence, which may include an ancillary apartment together with usual outbuildings as may be permitted by the Corporation, without the consent of the Corporation.
3. Not to use the land for any purpose except as a residence or ~~the~~ for the purpose of house occupation without the prior consent of the Corporation in writing.
4. Not to use any engine or machinery in any trade of business, nor erect or use or permit to be used on any part of any lot shown on the Plan nor to conduct or permit to be conducted any trade or business on or from any part of the same, including but not limited to mining, quarrying, or market gardening. The leasing of the property for private residential purposes is not deemed to be a breach of this covenant.
5. Not to keep any animals other than domestic pets on any lot shown on the Plan and not to make any application for a kennel licence in respect of any lot shown on the Plan nor to keep or establish or

Director



Director/Secretary



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permit to be kept or established any licensed kennel upon any lot or any part of any lot shown on the Plan nor to keep at one time more than two adult canines on any lot shown on the Plan.

- The Vendor may, at the Vendor's absolute discretion, waive the burden of any covenant contained in this Schedule of Easements in favour of any lot by notice in writing to the registered proprietor of that lot.

**FENCING PROVISION**

In respect of the Lots shown on the Plan, the Vendor (Daesungtas Pty Ltd) shall not be required to fence.

**DEFINITIONS**

“Corporation” means the Warden Councillors and Electors of the City of Clarence.

“Drainage Easement” means a right of drainage (including the right of construction of drains) for Clarence City Council with which the right shall be capable of enjoyment for the purpose of carrying away stormwater and other surplus water from any land over or under the land herein indicated as the land over which the right is to subsist, and through all sewers and drains which may hereafter be made or passing under, through, and along the last-mentioned land and the right for Clarence City Council and its employees, agents and contractors from time to time and at all times hereafter if it or they should think fit to enter into and upon the last-mentioned land and to inspect, repair, cleanse, and amend any such sewer or drain without doing unnecessary damage to the said land.

“Pipeline and Services Easement” is defined as follows:-

**FIRSTLY, THE FULL AND FREE RIGHT AND LIBERTY** for TasWater and its employees, contractors, agents and all other persons duly authorised by it, at all times to:

Director  Director/Secretary 

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- (1) enter and remain upon the Easement Land with or without machinery, vehicles, plant and equipment;
- (2) investigate, take soil, rock and other samples, survey, open and break up and excavate the Easement Land for any purpose or activity that TasWater is authorised to do or undertake;
- (3) install, retain, operate, modify, relocate, maintain, inspect, cleanse, repair, remove and replace the Infrastructure;
- (4) run and pass sewage, water and electricity through and along the Infrastructure;
- (5) do all works reasonably required in connection with such activities or as may be authorised or required by any law:
  - (a) without doing unnecessary damage to the Easement Land; and
  - (b) leaving the Easement Land in a clean and tidy condition;
- (6) if the Easement Land is not directly accessible from a highway, then for the purpose of undertaking any of the preceding activities TasWater may with or without employees, contractors, agents and any other persons authorised by it, and with or without machinery, vehicles, plant and equipment enter the Lot from the highway at any vehicle entry and cross the Lot to the Easement Land; and
- (7) use the Easement Land as a right of carriageway for the purpose of undertaking any of the preceding purposes on other land, TasWater reinstating any damage that it causes in doing so to any boundary fence of the Lot.

**SECONDLY**, the benefit of a covenant in gross for TasWater with the registered proprietor/s of the Easement Land and their successors and assigns not to erect any building, or place any structures, objects, vegetation, or remove any thing that supports, protects or covers any Infrastructure on or in the Easement Land, without the prior written consent of TasWater to the intent that the burden of the covenant may run with and bind the servient land and every part thereof and that the benefit thereof may be annexed to the easement herein described.

Interpretation:

Director  Director/Secretary 

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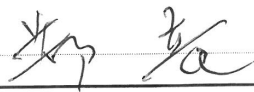
<p><b>ANNEXURE TO SCHEDULE OF EASEMENTS</b></p> <p>PAGE 7 OF 8 PAGES</p>	<p>Registered Number</p> <p><b>SP 188393</b></p>
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“**Infrastructure**” means infrastructure owned or for which TasWater is responsible and includes but is not limited to:

- (a) sewer pipes and water pipes and associated valves;
- (b) telemetry and monitoring devices;
- (c) inspection and access pits;
- (d) electricity assets and other conducting media (excluding telemetry and monitoring devices);
- (e) markers or signs indicating the location of the Easement Land or any other Infrastructure or any warnings or restrictions with respect to the Easement Land or any other Infrastructure;
- (f) anything reasonably required to support, protect or cover any other Infrastructure;
- (g) any other infrastructure whether of a similar nature or not to the preceding which is reasonably required for the piping of sewage or water, or the running of electricity, through the Easement Land or monitoring or managing that activity; and
- (h) where the context permits, any part of the Infrastructure.

“**TasWater**” means Tasmanian Water & Sewerage Corporation Pty Ltd (ACN 162 220 653), its successors and assigns.

Director



Director/Secretary



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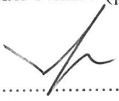
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<p><b>ANNEXURE TO SCHEDULE OF EASEMENTS</b></p> <p>PAGE 8 OF 8 PAGES</p>	<p>Registered Number</p> <p><b>SP 188393</b></p>
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EXECUTED by DAESUNGTAS PTY LTD (ACN 607 472 131) as registered proprietor of the land comprised in Folio of the Register Volume 186365/507 Folio 507 in accordance with section 127 of the *Corporations Act 2001* (Cth) by:

  
 .....  
 Director Signature


YONG JUNG  
 .....  
 Director Full Name (print)


  
 .....  
 \*Director/\*Secretary Signature

DONG keun yoon \*BS  
 .....  
 \*Director/Secretary Full Name (print)

(\*please strike out inapplicable)

\*Bailee Saward  
 Representative for Transferor  
 Page Seager

  
 .....  
 Director

  
 .....  
 Director/Secretary

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**GENERAL NOTES:**

1. THIS PLAN HAS BEEN PREPARED BY SURVEY PLUS FROM A COMBINATION OF EXISTING RECORDS AND FIELD SURVEY FOR THE PURPOSES OF SHOWING THE PHYSICAL FEATURES OF THE LAND AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
2. TITLE BOUNDARIES SHOWN WERE NOT VERIFIED OR MARKED BY SURVEY PLUS AT THE TIME OF THIS SURVEY.
3. SERVICES SHOWN ON THIS PLAN WERE LOCATED WHERE POSSIBLE BY FIELD SURVEY. THEY ARE NOT A COMPLETE PICTURE OF SERVICES ON SITE. ALL SERVICE LOCATIONS ARE TO BE VERIFIED BEFORE COMMENCEMENT OF ANY WORK ON SITE. IN PARTICULAR THOSE SERVICES NOT PREVIOUSLY LOCATED THROUGH FIELD SURVEY.
4. SURVEY PLUS CAN NOT ACCEPT LIABILITY WHATSOEVER FOR LOSS OR DAMAGE CAUSED TO ANY UNDERGROUND SERVICE WHETHER SHOWN BY OUR SURVEY OR NOT.
5. THIS NOTE IS AN INTEGRAL PART OF THIS PLAN/DATA. REPRODUCTION OF THIS PLAN OR ANY PART OF IT WITHOUT THIS NOTE BEING INCLUDED IN FULL WILL RENDER THE INFORMATION SHOWN ON SUCH A REPRODUCTION INVALID AND NOT SUITABLE FOR USE WITHOUT PRIOR AUTHORITY OF SURVEY PLUS.
6. HORIZONTAL DATUM IS MGA (GDA94).
7. VERTICAL DATUM IS AHD.
8. CONTOUR INTERVAL IS 0.2 METRE, INDEX IS 1.0 METRE.
9. SURVEY BY ROBOTIC TOTAL STATION AND RTK GPS.
10. IMPORTED DATA SHOWN ON THIS PLAN WAS OBTAINED FOR PUBLIC AVAILABLE DATA FROM VARIOUS GOVERNMENT AUTHORITIES. THIS INFORMATION IS PROVIDED FOR GUIDANCE ONLY. THE ACCURACY OF ANY IMPORTED DATA IS PER THE ACCURACY QUOTED BY THE SOURCE AND IS IN NO WAY GUARANTEED BY SURVEY PLUS. USERS MUST NOT RELY ON THIS DATA FOR ON-GROUND LOCATION OF BOUNDARIES AND/OR SERVICES.

- LIST DATA IMPORT**
- TasWater-SewerLateralLine
  - TasWater-SewerMain
  - TasWater-SewerMaintenanceHole
  - TasWater-SewerPressurisedMain
  - TasWater-WaterHydrant
  - TasWater-WaterLateralLine
  - TasWater-WaterMain

11. BOUNDARIES ARE COMPILED ONLY FROM SP188393 AND RELEVANT SURVEY INFORMATION OBTAINED FROM LAND TITLES OFFICE AND ARE APPROXIMATE AND SUBJECT TO SURVEY.

12. ALL WINDOWS WERE NOT ABLE TO BE LOCATED DUE TO OBSTRUCTION OF LINE OF SIGHT FROM TOTAL STATION. WINDOW LOCATIONS ARE APPROXIMATE ONLY DUE TO BEING UNABLE TO BE PERPENDICULAR TO WINDOWS WHEN LOCATING WITH TOTAL STATION.

13. 3D DATA TURNED OFF IN LAYER CONTROL.

- 3D TIN
- MAJOR CONTOUR 3D
- MINOR CONTOUR 3D

NOTE: ALL PROPOSED STORMWATER TO BE DISCHARGED TO EXISTING INFRASTRUCTURE

EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IMPLEMENTED ON THE SITE IN ACCORDANCE WITH COUNCIL REQUIREMENTS

# PROPOSED SITE PLAN

© COPYRIGHT IN WHOLE OR IN PART

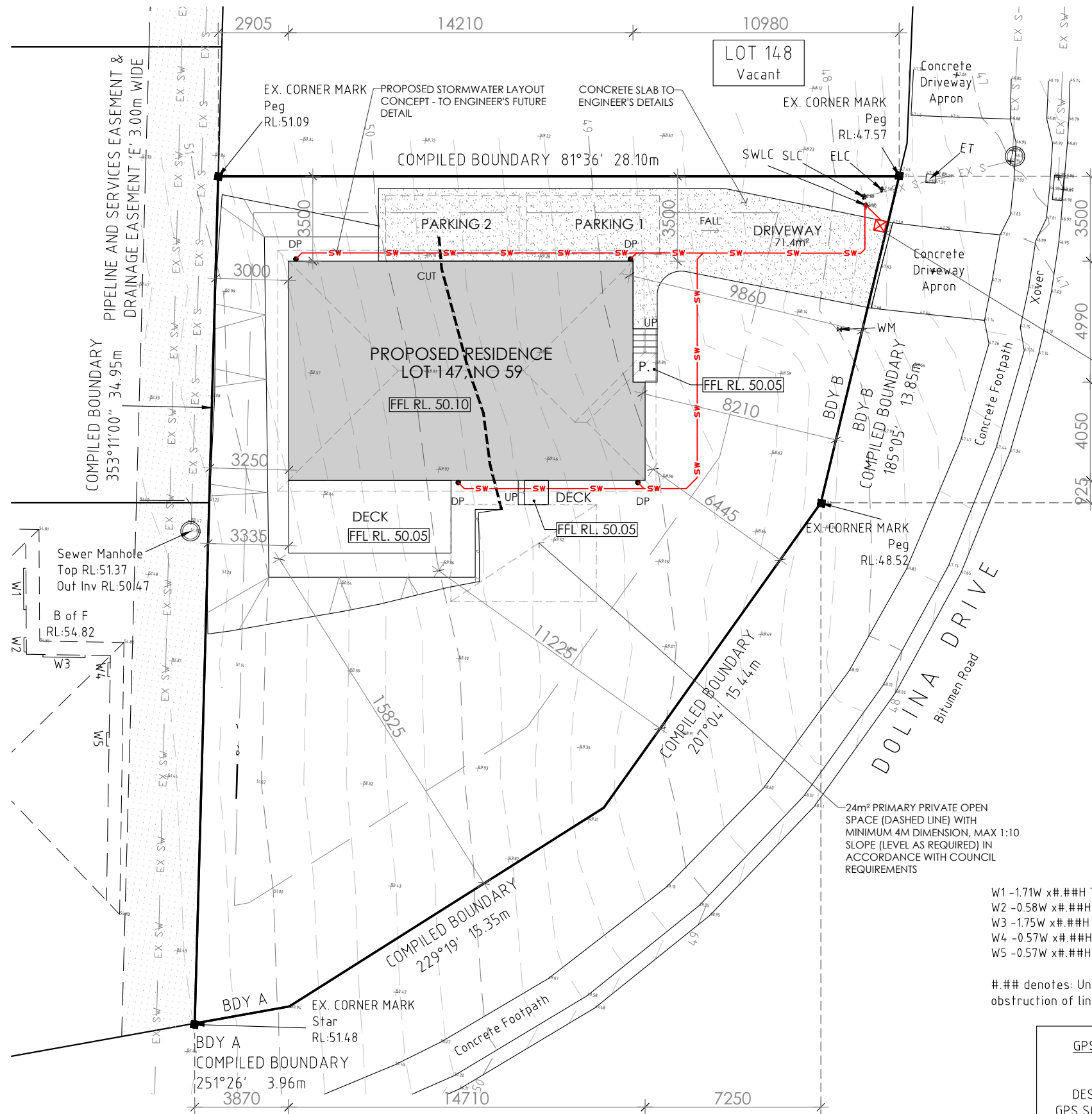
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CONTRACTOR MUST VERIFY ALL DIMENSIONS AND LEVELS AT THE JOB PRIOR TO COMMENCING ANY WORK OR MAKING ANY SHOP DRAWINGS.  
DO NOT SCALE DRAWINGS. ALWAYS USE WRITTEN DIMENSIONS.

REV:	DESCRIPTION:	BY:	DATE:
SK	ISSUED FOR CLIENT REVIEW	HN	24/4/26
SK1	CHANGED LOCATION HOUSE AND DECK	HT	29/4/26
A	ADDED SKYLIGHT, BATHTUB	HT	19/5/26
B	ADJUSTED DESIGN	HT	20/5/26

PRELIMINARY



**LEGEND**

- CLC = Communication Lot Connection
- ELC = Electricity Lot Connection
- ET = Electrical Turret
- WM = Water Meter
- B of F = Bottom of Fascia
- SLC = Sewer Lot Connection  
Top RL: 47.69  
Inv RL: 46.90
- SWLC = Stormwater Lot Connection  
Top RL: 47.69  
Inv RL: 46.82

PROPOSED 450x450 PITS CONNECTED TO STORMWATER, ALL TO BE IN ACCORDANCE WITH ENGINEER'S DETAILED DESIGN

**NOTES**

**SITE PREPARATION**  
THE SITE IS TO BE DISTURBED AS MINIMALLY AS POSSIBLE TO THE EXTENT REQUIRED TO CARRY OUT THE BUILDING WORKS.  
EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH NCC PART 3.2.  
UN-RETAINED EMBANKMENT GRADIENTS SHALL BE IN ACCORDANCE WITH NCC TABLE 3.2.1.  
DRAINAGE SHALL BE IN ACCORDANCE WITH NCC PART 3.3.2.  
THE BUILDER AND SUBCONTRACTOR SHALL ENSURE THAT ALL STORMWATER DRAINS, SEWER PIPES AND THE LIKE ARE LOCATED AT A SUFFICIENT DISTANCE FROM ANY BUILDINGS FOOTING AND/OR SLAB EDGE BEAMS SO AS TO PREVENT GENERAL MOISTURE PENETRATION, DAMPNES, WEAKENING & UNDERMINING OF ANY BUILDING AND ITS FOOTING SYSTEM.  
LOCATION OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.

**ATTENTION OF OWNER**  
THE OWNERS ATTENTION IS DRAWN TO THE FACT THAT FOUNDATIONS AND ASSOCIATED DRAINAGE FOR ALL SITES REQUIRES CONTINUING MAINTENANCE TO ASSIST FOOTING PERFORMANCE. ADVICE FOR FOUNDATION MAINTENANCE IS CONTAINED IN THE CSIRO BUILDING TECHNOLOGY FILE 18 AND IT IS THE OWNERS RESPONSIBILITY TO MAINTAIN THE SITE IN ACCORDANCE WITH THIS DOCUMENT.

**SOIL AND WATER MANAGEMENT NOTES:**  
DRAINAGE LINES ARE TO BE INSTALLED PRIOR TO THE PLACEMENT OF ROOF AND GUTTERING. ONCE DWELLING IS ROOFED, CONNECT IMMEDIATELY. APPLY TEMPORARY COVERING TO DISTURBED AREAS THAT WILL REMAIN EXPOSED FOR 14 DAYS OR MORE DURING CONSTRUCTION (EG. WATERPROOF BLANKET, VEGETATION OR MULCH)

PROTECT ANY NEARBY OR ON-SITE DRAINAGE PITS FROM SEDIMENT BY INSTALLING SEDIMENT TRAPS AROUND THEM.  
LIMIT ENTRY/EXIT TO ONE POINT AND STABILISE. INSTALL FACILITIES TO REMOVE DIRT/ MUD FROM VEHICLE WHEELS BEFORE THEY LEAVE THE SITE.  
SITE TO BE VEGETATED AND PLANTED ACCORDING TO THE HOBART REGIONAL SOIL AND WATER MANAGEMENT CODE OF PRACTICE.

**BUILDER AND SUBCONTRACTORS TO VERIFY ALL DIMENSIONS AND LEVELS** PRIOR TO THE COMMENCEMENT OF ANY WORK. GIVE 24 HOURS MINIMUM NOTICE WHERE AMENDMENTS ARE REQUIRED TO DRAWINGS. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH DOCUMENTATION LISTED ON THE COVER PAGE. DO NOT SCALE DRAWINGS. DIMENSIONS ARE TO TAKE PREFERENCE OVER SCALE. BUILDING SPECIFICATION AND ENGINEERS DRAWINGS SHALL OVERRIDE ARCHITECTURAL DRAWINGS.

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWING SHEETS, CONSULTANTS DRAWINGS, DOCUMENTS, SCHEDULES AND SPECIFICATIONS (AS APPLICABLE).
- THE BUILDER AND SUBCONTRACTOR SHALL ENSURE THAT ALL STORMWATER DRAINS, SEWER PIPES AND THE LIKE ARE LOCATED AT A SUFFICIENT DISTANCE FROM ANY BUILDINGS FOOTING AND/OR SLAB EDGE BEAMS SO AS TO PREVENT GENERAL MOISTURE PENETRATION, DAMPNES, WEAKENING & UNDERMINING OF ANY BUILDING AND ITS FOOTING SYSTEM.
- LOCATION OF ALL EXISTING ONSITE SERVICES TO BE CONFIRMED ONSITE PRIOR TO CONSTRUCTION

**IMPORTANT!**  
SITE INFORMATION AS DRAWN IS APPROXIMATE ONLY. FINAL SITE INFORMATION IS SUBJECT TO A DETAILED CONTOUR SURVEY BY LICENSED SURVEYOR.

- W1 -1.71W x#.#.#H Top RL: 54.82 Ground Floor Window
- W2 -0.58W x#.#.#H Top RL: 54.82 Ground Floor Window
- W3 -1.75W x#.#.#H Top RL: 54.76 Ground Floor Window
- W4 -0.57W x#.#.#H Top RL: 54.82 Ground Floor Window
- W5 -0.57W x#.#.#H Top RL: 54.82 Ground Floor Window

#.#.# denotes: Unable to locate windows due to obstruction of line of sight from instrument.

**GPS DATA SCALE LOCATION**

JOB CONTROL POINT  
POINT NO: 9  
DESCRIPTION: R/S IN KERB#  
GPS SCALE FACTOR = 1.000391797  
E: 535723.380  
N: 5251898.594  
RL: 46.74  
EPU = 0.04±

SOIL CLASSIFICATION:	--
WIND CLASSIFICATION:	--

SITE COVERAGE	
SITE AREA	707.8 m²
PROPOSED BUILDING FOOTPRINT	131.7 m²
PROPOSED SITE COVERAGE	18.61 %

JOB ADDRESS: Lot 147, No 59 Dolina Drive Rokeby		CLIENT: Numan Rasul
DESIGNER: I. Brown	ACCRED. NO.: CC6652	SHEET: 2 of 9
DRAWN: H. Tran	DATE: April 2026	DESIGN TYPE: Custom
CHECKED:	DATE:	DRAWING NO: ---
SCALE: 1:200	REV: B	

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AREAS:	
FLOOR AREA:	130.5 m <sup>2</sup>
PORCH:	1.2 m <sup>2</sup>
TOTAL AREA:	131.7 m <sup>2</sup>
DECK:	21.1 m <sup>2</sup>

LEGEND:	
DP	DOWNPIPE LOCATION
SHR	SHOWER
WIS	WALK IN SHOWER
BTH	BATH
VB	VANITY BASIN
WC	TOILET
OHC	OVERHEAD CUPBOARDS
REF	REFRIGERATOR
P	PANTRY
RH	RANGE HOOD
UBO	UNDER BENCH OVEN
CT	COOK TOP
S	SINK
DW	DISH WASHER
T	TROUGH
WM	WASHING MACHINE
MH	MANHOLE
CSD	CAVITY SLIDING DOOR
AAW	ALUM. AWNING WINDOW
AFW	ALUM. FIXED WINDOW
ASD	ALUM. SLIDING DOOR
B/O	BEAM OVER
BAL	BALUSTRADE
BAL SELECTED BALUSTRADE TO BUILDER'S STANDARD DETAIL INSTALLED IN ACCORDANCE WITH NCC	
MASONRY ARTICULATION JOINT - LOCATION TO ENGINEER'S DETAILS	
CEILING MOUNTED INTERCONNECTED SMOKE DETECTORS, MAINS WIRED WITH BATTERY BACKUP, ALL IN ACCORDANCE WITH AS 3786.	
DP 90mm DOWNPIPE	

NOTE: LIFT OFF HINGES TO WC TO BE INSTALLED AS REQUIRED IN ACCORDANCE WITH NCC.

SUB FLOOR VENTILATION	
Zone C	6000
Subfloor wall length	47.5
Area of ventilation	285000.0
Vent size 230x76	17480
Number of vents	16

**GLAZING - All glazing Low Reflective to council compliance. Max. 10% Reflectivity**

# PROPOSED FLOOR PLAN

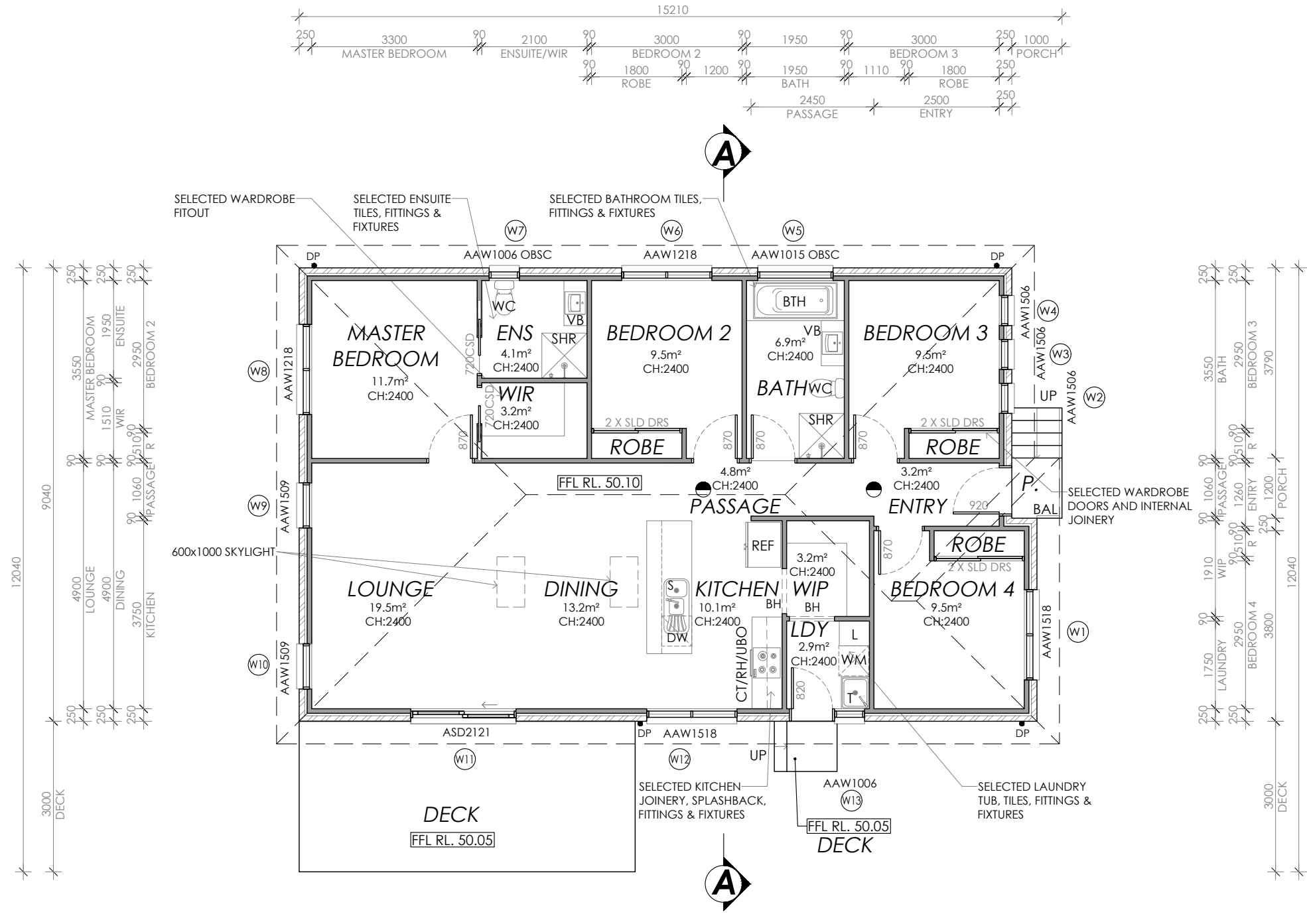
FLOOR AREA: 131.7m<sup>2</sup>

PRELIMINARY

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03	PROJECT NORTH	CONTRACTOR MUST VERIFY ALL DIMENSIONS AND LEVELS AT THE JOB PRIOR TO COMMENCING ANY WORK OR MAKING ANY SHOP DRAWINGS.	REV:	DESCRIPTION:	BY:	DATE:
		DO NOT SCALE DRAWINGS. ALWAYS USE WRITTEN DIMENSIONS.	SK	ISSUED FOR CLIENT REVIEW	HN	24/4/26
			SK1	CHANGED LOCATION HOUSE AND DECK	HT	29/4/26
			A	ADDED SKYLIGHT, BATHTUB	HT	19/5/26
			B	ADJUSTED DESIGN	HT	20/5/26

<p>CREATIVE HOMES   HOBART   LAUNCESTON   CREATIVEHOMESTAS.COM.AU</p>	JOB ADDRESS: Lot 147, No 59 Dolina Drive Rokeyby		CLIENT: Numan Rasul
	DESIGNER: I. Brown	ACCRED. NO.: CC6652	SHEET: 3 of 9
	DRAWN: H. Tran	DATE: April 2026	DESIGN TYPE: Custom
	CHECKED:	DATE:	DRAWING NO:
	SCALE: 1:100	REV: B	



**Framing NCC H1D6**  
All timber framing, fixing and bracing shall comply with AS 1684 and the requirements of NCC H1D6. Manufactured sizes must not be undersized to those specified, for all timber sizes, stress grades, spacing and wall bracing refer to Engineer's details. Tie-down details shall be in accordance with Engineer's details and comply with NCC H1D6 (4). Structural steel members shall comply with the requirements of clauses in NCC H1D6 (3). Refer to Engineer's details where provided.

**Glazing NCC H1D8**  
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Human impact safety requirements shall comply with NCC H1D8 (3) and Part 8.4 of the ABCB Housing provisions.

**Note:**  
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the Owners attention is drawn to the fact that foundations and associated drainage in all sites requires continuing maintenance to assist footing performance. Advice for foundation maintenance is contained in the CSIRO building technology file 18 and it is the Owners responsibility to maintain the site in accordance with this document.

**Energy efficiency:**  
Insulation must comply with AS/NZS4859.1 and be installed in accordance with ABCB housing provisions Part 13.2.2 and comply with minimum R values for climate zone 7.  
Bulk insulation between external studs to be insulated with min R2.0. (Ensure batts fit within cavity without compression, making sure that there is at least 25mm gap from the reflective surface). External walls are to be clad with vapour permeable reflective foil over the outside of the timber frame. Ceiling to be insulated with R4.0 and vapour permeable sarking. Floor to be insulated with Min R1.7 batts where applicable. Seal exhaust fans to Ensuite, Bathroom, Laundry and Kitchen. All downlights to be IC rated. Construction of the external walls, floor and roof for compliance with building sealing requirements shall comply with BCA 2019 Part 3.12

**General:**  
All flashings, weep holes and damp proof coursing to be in accordance with NCC Housing provisions Part 5.7. Fibre cement sheet in accordance with NCC Housing provisions Part 7.5. Block construction in accordance NCC Housing provisions Part 5. Plasterboard linings to internal walls and ceilings with selected cornice. (see below for wet areas)

**Wet areas:** All wet areas shall comply with the requirements of ABCB Housing provisions Part 10.2. Provide waterproof plasterboard sheeting to all walls and ceilings. Provide ceramic tiles or other approved water resistant lining in accordance with Part 10.2.9 to a minimum height of 1800mm to shower walls and to a height of min 150mm behind baths, basins, sinks, troughs, washing machines and wall fixtures.

For construction of floor wastes refer to NCC ABCB Housing provisions part 10.2.12. For typical installation requirements for substrate preparation, penetrations, flashings/ junctions, membranes, screeds, hobs, baths, showers, door jambs and screens refer to ABCB Housing provisions part 10.2.14-32.

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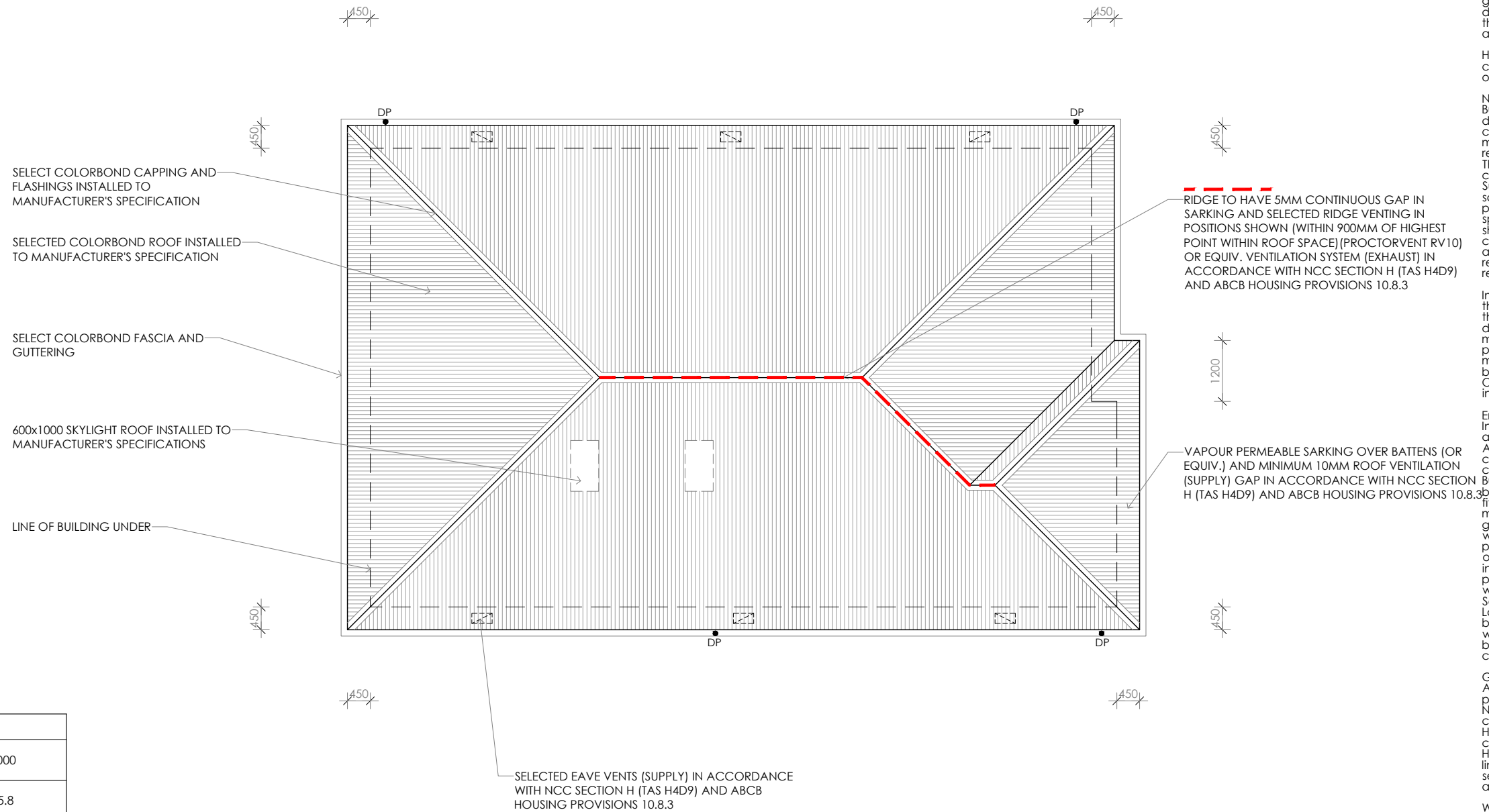
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ROOF VENTILATION		
requirement for roof pitch	7000	5000
Gutter length	15.8	15.8
ventilation area of selected vent	52500	7000
Number of vents (minimum)	3.0	11.0
Vent type	Standard (200 x 400 eave vent)	ProctorVent RV10 (or equivalent)

**GLAZING - All glazing Low Reflective to council compliance. Max. 10% Reflectivity**

## PROPOSED ROOF PLAN

### PRELIMINARY

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CONTRACTOR MUST VERIFY ALL DIMENSIONS AND LEVELS AT THE JOB PRIOR TO COMMENCING ANY WORK OR MAKING ANY SHOP DRAWINGS. DO NOT SCALE DRAWINGS. ALWAYS USE WRITTEN DIMENSIONS.

REV:	DESCRIPTION:	BY:	DATE:
SK	ISSUED FOR CLIENT REVIEW	HN	24/4/26
SK1	CHANGED LOCATION HOUSE AND DECK	HT	29/4/26
A	ADDED SKYLIGHT, BATHTUB	HT	19/5/26
B	ADJUSTED DESIGN	HT	20/5/26



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JOB ADDRESS: Lot 147, No 59 Dolina Drive Rokeby	
DESIGNER: I. Brown	ACCRED. NO.: CC6652
DRAWN: H. Tran	DATE: April 2026
CHECKED:	DATE:
SCALE: 1:100	REV: B

CLIENT: Numan Rasul
SHEET: 4 of 9
DESIGN TYPE: Custom
DRAWING NO: ---

● DP 90mm DOWNPIPE

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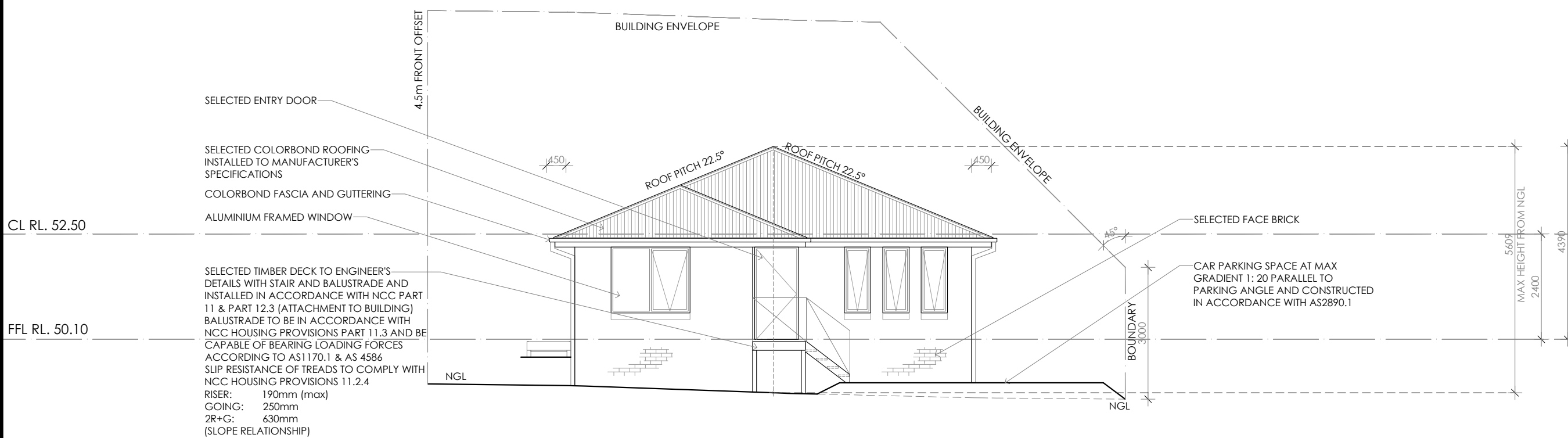
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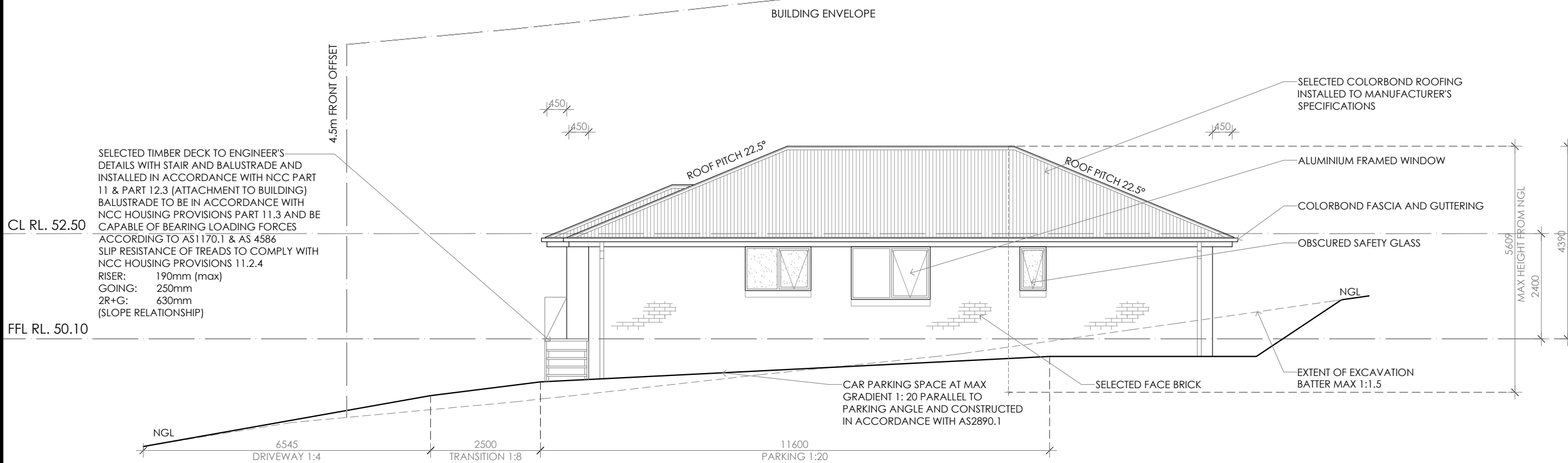
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EASTERN ELEVATION

**GLAZING - All glazing Low Reflective to council compliance. Max. 10% Reflectivity**



NORTHERN ELEVATION

PRELIMINARY

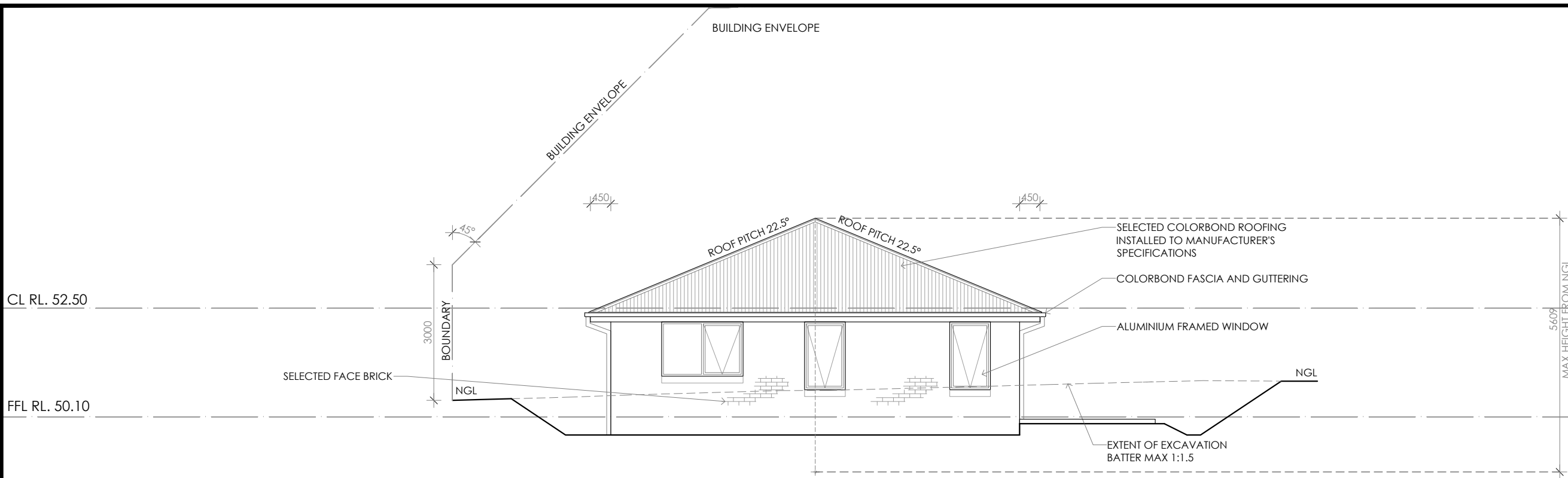
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		DO NOT SCALE DRAWINGS. ALWAYS USE WRITTEN DIMENSIONS.	SK1	CHANGED LOCATION HOUSE AND DECK	HT	29/4/26
			A	ADDED SKYLIGHT, BATHTUB	HT	19/5/26
			B	ADJUSTED DESIGN	HT	20/5/26

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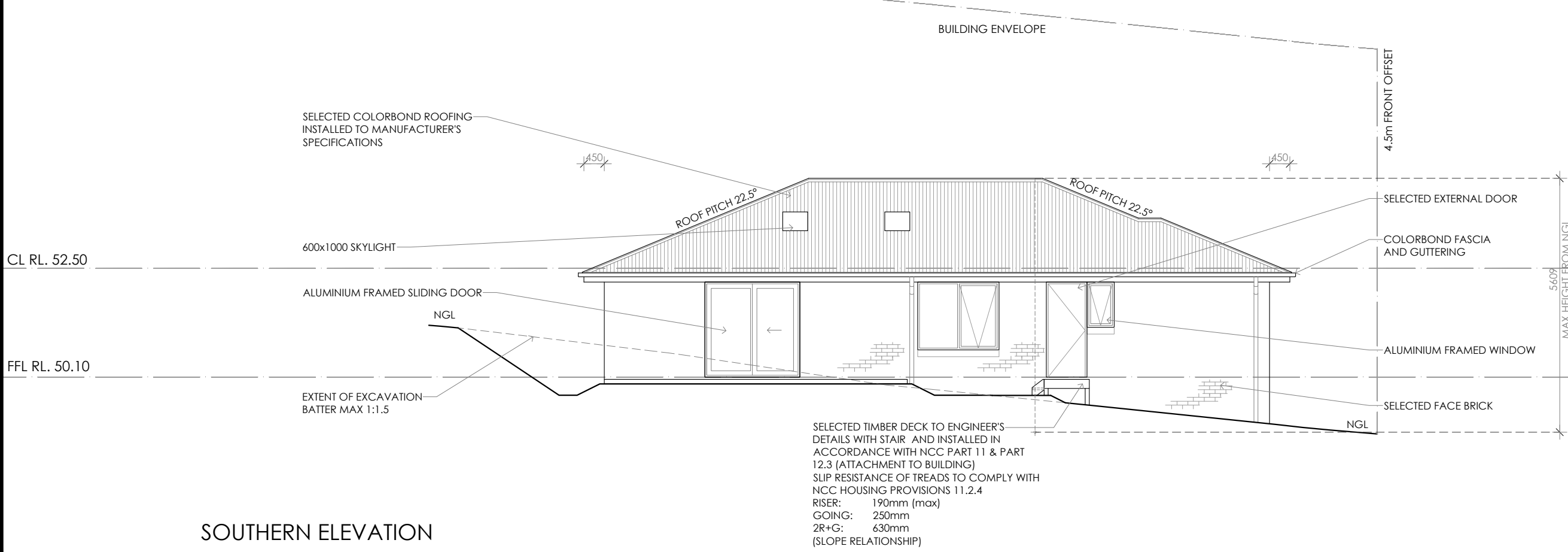
BY CREATIVE HOMES

JOB ADDRESS: Lot 147, No 59 Dolina Drive Rokeby		CLIENT: Numan Rasul
DESIGNER: I. Brown	ACCRED. NO.: CC6652	SHEET: 5 of 9
DRAWN: H. Tran	DATE: April 2026	DESIGN TYPE: Custom
CHECKED:	DATE:	DRAWING NO:
SCALE: 1:100	REV: B	



WESTERN ELEVATION

**GLAZING - All glazing Low Reflective to council compliance. Max. 10% Reflectivity**



SOUTHERN ELEVATION

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PRELIMINARY

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			B	ADJUSTED DESIGN	HT	20/5/26



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JOB ADDRESS: Lot 147, No 59 Dolina Drive Rokeby	
DESIGNER: I. Brown	ACCRED. NO.: CC6652
DRAWN: H. Tran	DATE: April 2026
CHECKED:	DATE:
SCALE: 1:100	REV: B

CLIENT: Numan Rasul
SHEET: 6 of 9
DESIGN TYPE: Custom
DRAWING NO: ---

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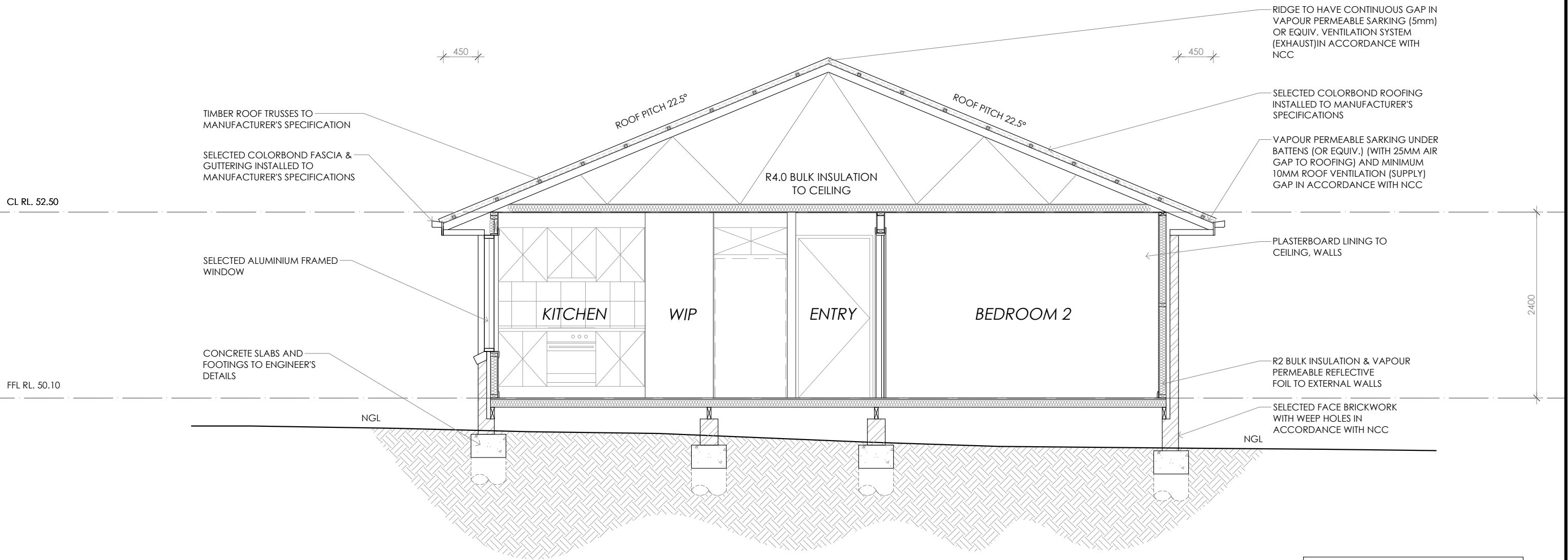
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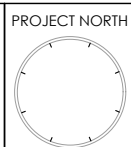


# SECTION A-A

PRELIMINARY

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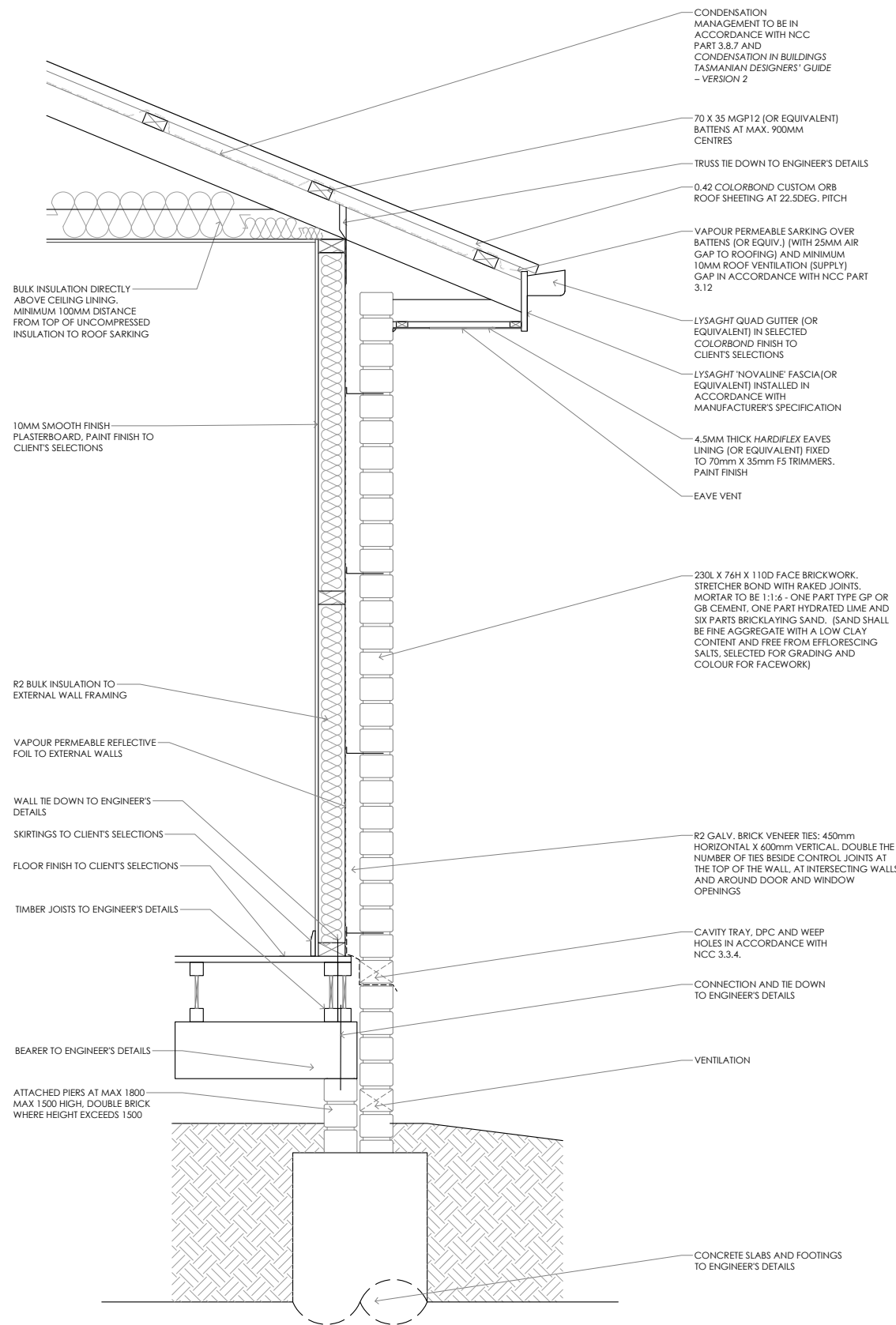
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SK1	CHANGED LOCATION HOUSE AND DECK	HT	29/4/26
A	ADDED SKYLIGHT, BATHTUB	HT	19/5/26
B	ADJUSTED DESIGN	HT	20/5/26

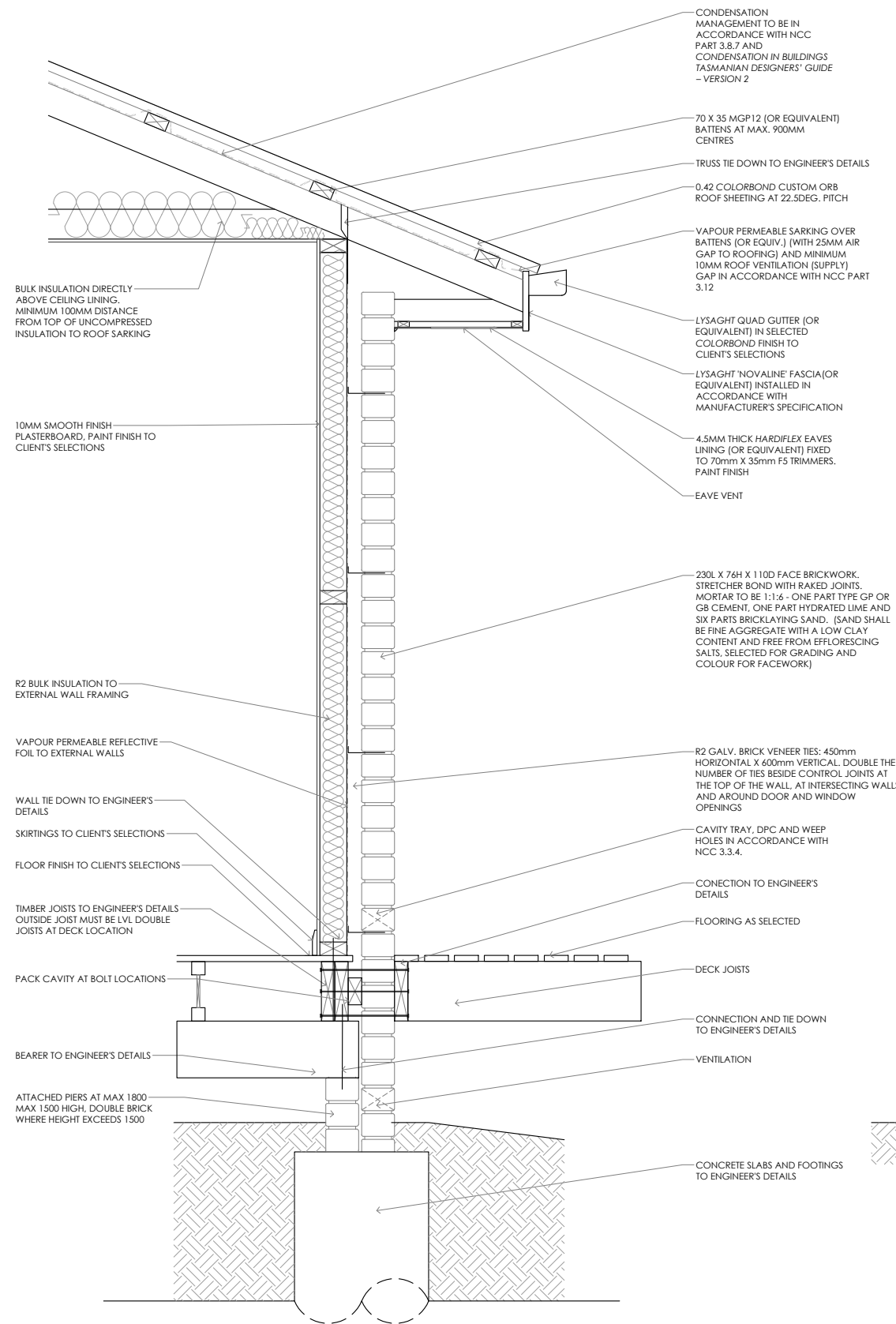


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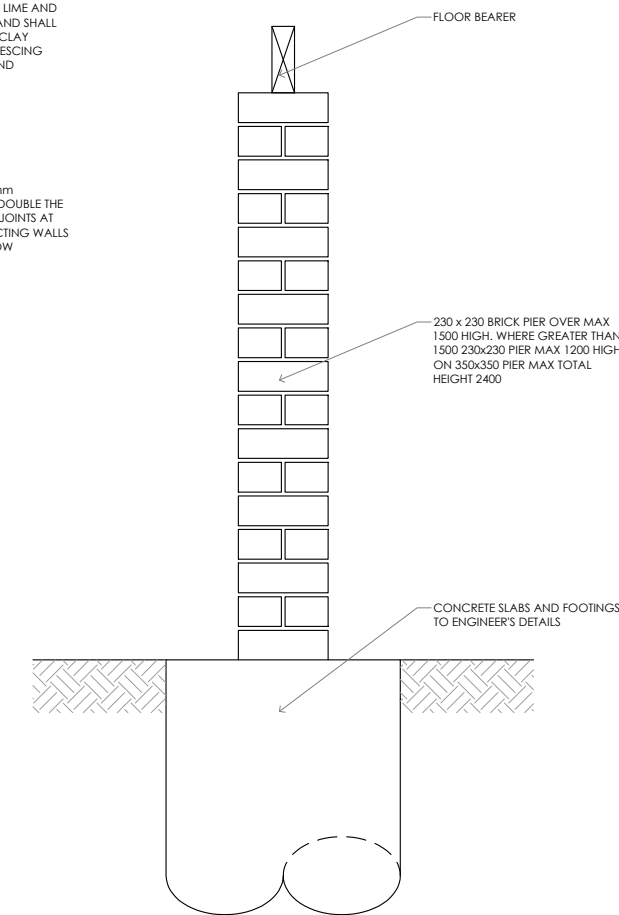
JOB ADDRESS: Lot 147, No 59 Dolina Drive Rokeby		CLIENT: Numan Rasul
DESIGNER: I. Brown	ACCRED. NO.: CC6652	SHEET: 7 of 9
DRAWN: H. Tran	DATE: April 2026	DESIGN TYPE: Custom
CHECKED:	DATE:	DRAWING NO: ---
SCALE: 1:50	REV: B	



FLOOR, WALL & ROOF DETAIL SCALE 1:20



DECK, TIMBER FLOOR CONNECTION DETAIL SCALE 1:20



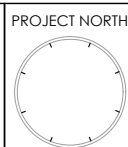
ISOLATED BRICK PIER DETAIL SCALE 1:20

TYPICAL SECTION DETAILS

PRELIMINARY

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CONTRACTOR MUST VERIFY ALL DIMENSIONS AND LEVELS AT THE JOB PRIOR TO COMMENCING ANY WORK OR MAKING ANY SHOP DRAWINGS. DO NOT SCALE DRAWINGS. ALWAYS USE WRITTEN DIMENSIONS.

REV:	DESCRIPTION:	BY:	DATE:
SK	ISSUED FOR CLIENT REVIEW	HN	24/4/26
SK1	CHANGED LOCATION HOUSE AND DECK	HT	29/4/26
A	ADDED SKYLIGHT, BATH TUB	HT	19/5/26
B	ADJUSTED DESIGN	HT	20/5/26



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JOB ADDRESS: Lot 147, No 59 Dolina Drive Rokeby		CLIENT: Numan Rasul
DESIGNER: I. Brown	ACCRED. NO.: CC6652	SHEET: 8 of 9
DRAWN: H. Tran	DATE: April 2026	DESIGN TYPE: Custom
CHECKED:	DATE:	DRAWING NO: ---
SCALE: AS SHOWN	REV: B	

Framing NCC HD6  
All timber framing, fixing and bracing shall comply with AS 1684 and the requirements of NCC HD6. Manufactured sizes must not be undersized to those specified, for all timber sizes, stress grades, spacing and wall bracing refer to Engineer's details. Tie-down details shall be in accordance with Engineer's details and comply with NCC HD6 (4). Structural steel members shall comply with the requirements of clauses in NCC HD6 (3). Refer to Engineer's details where provided.

Glazing NCC HD8  
All windows to be aluminium awning style, double glazed (obscured safety glass to bathrooms as shown on drawings) All glazing shall comply with the requirements of AS 2047 & AS 1288 and NCC HD8.

Human impact safety requirements shall comply with NCC HD8 (3) and Part 8.4 of the ABCB Housing provisions.

Note:  
Builder and subcontractors to verify all dimension and levels prior to the commencement of any work. Give 24hrs minimum notice where amendments are required to design of working drawings. These drawings are to be read in conjunction with Engineer's and Surveyor's drawings and notes. Do not scale drawings. Dimensions are to take preference over scale. Building specification and Engineer's drawings shall override architectural drawings. All construction work shall be carried out in accordance with the state building regulations, local council by-laws and relevant NCC and AS codes.

Important notice for attention of Owners: the Owners attention is drawn to the fact that foundations and associated drainage in all sites requires continuing maintenance to assist footing performance. Advice for foundation maintenance is contained in the CSIRO building technology file 18 and it is the Owners responsibility to maintain the site in accordance with this document.

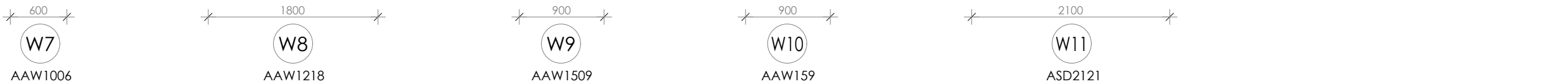
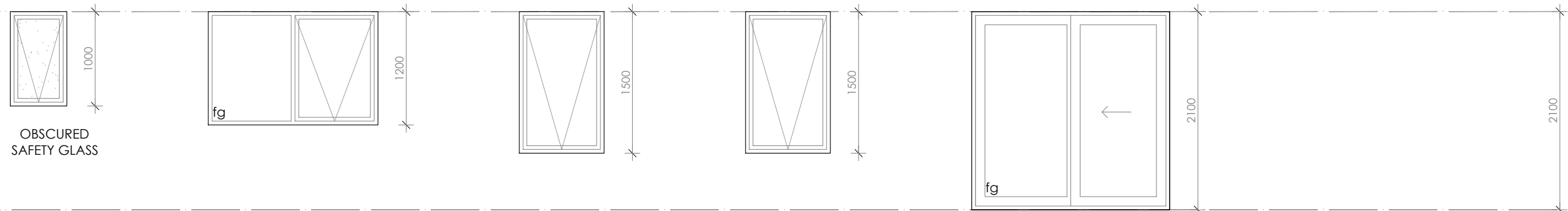
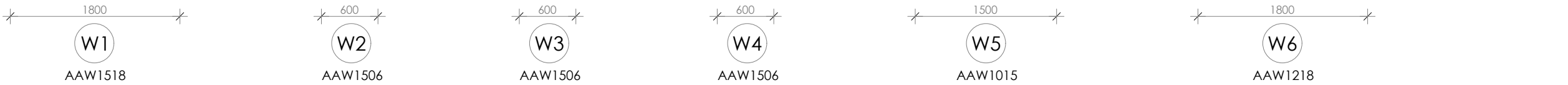
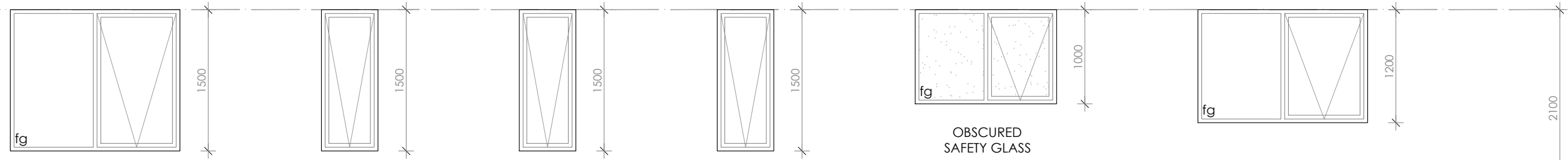
Energy efficiency:  
Insulation must comply with AS/NZS4859.1 and be installed in accordance with ABCB housing provisions Part 13.2.2 and comply with minimum R values for climate zone 7.

Bulk insulation between external studs to be insulated with min R2.0. (Ensure batts fit within cavity without compression, making sure that there is at least 25mm gap from the reflective surface). External walls are to be clad with vapour permeable reflective foil over the outside of the timber frame. Ceiling to be insulated with R4.0 and vapour permeable sarking. Floor to be insulated with Min R1.7 batts where applicable. Seal exhaust fans to Ensuite, Bathroom, Laundry and Kitchen. All downlights to be IC rated. Construction of the external walls, floor and roof for compliance with building sealing requirements shall comply with BCA 2019 Part 3.12

General:  
All flashings, weep holes and damp proof coursing to be in accordance with NCC Housing provisions Part 5.7. Fibre cement sheet in accordance with NCC Housing provisions Part 7.5. Block construction in accordance NCC Housing provisions Part 5. Plasterboard linings to internal walls and ceilings with selected cornice. (see below for wet areas)

Wet areas: All wet areas shall comply with the requirements of ABCB Housing provisions Part 10.2. Provide waterproof plasterboard sheeting to all walls and ceilings. Provide ceramic tiles or other approved water resistant lining in accordance with Part 10.2.9 to a minimum height of 1800mm to shower walls and to a height of min 150mm behind baths, basins, sinks, troughs, washing machines and wall fixtures.

For construction of floor wastes refer to NCC ABCB Housing provisions part 10.2.12. For typical installation requirements for substrate preparation, penetrations, flashings/ junctions, membranes, screeds, hobs, baths, showers, door jambs and screens refer to ABCB Housing provisions part 10.2.14-32.



# WINDOW SCHEDULE

fg FIXED GLAZING

PRELIMINARY

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PROJECT NORTH	CONTRACTOR MUST VERIFY ALL DIMENSIONS AND LEVELS AT THE JOB PRIOR TO COMMENCING ANY WORK OR MAKING ANY SHOP DRAWINGS.
	DO NOT SCALE DRAWINGS. ALWAYS USE WRITTEN DIMENSIONS.

REV:	DESCRIPTION:	BY:	DATE:
SK	ISSUED FOR CLIENT REVIEW	HN	24/4/26
SK1	CHANGED LOCATION HOUSE AND DECK	HT	29/4/26
A	ADDED SKYLIGHT, BATHTUB	HT	19/5/26
B	ADJUSTED DESIGN	HT	20/5/26

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JOB ADDRESS: Lot 147, No 59 Dolina Drive Rokeby		CLIENT: Numan Rasul
DESIGNER: I. Brown	ACCRED. NO.: CC6652	SHEET: 9 of 9
DRAWN: H. Tran	DATE: April 2026	DESIGN TYPE: Custom
CHECKED:	DATE:	DRAWING NO: ---
SCALE: 1:50	REV: B	

# **AS2870:2011 SITE ASSESSMENT**

**59 Dolina Drive**

**Rokeby**

**March 2026**



GEO-ENVIRONMENTAL  

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S O L U T I O N S

Disclaimer: The author does not warrant the information contained in this document is free from errors or omissions. The author shall not in any way be liable for any loss, damage or injury suffered by the User consequent upon, or incidental to, the existence of errors in the information.

## Investigation Details

<b>Client:</b>	Creative Homes Hobart
<b>Site Address:</b>	59 Dolina Drive, Rokeby
<b>Date of Inspection:</b>	18/03/2026
<b>Proposed Works:</b>	New house
<b>Investigation Method:</b>	Geoprobe 540UD - Direct Push
<b>Inspected by:</b>	C. Cooper

## Site Details

<b>Certificate of Title (CT):</b>	188393/147
<b>Title Area:</b>	Approx. 696.6 m <sup>2</sup>
<b>Applicable Planning Overlays:</b>	Bushfire-prone areas, Priority Vegetation , Airport obstacle limitation area
<b>Slope &amp; Aspect:</b>	7° E facing slope
<b>Vegetation:</b>	Grass & Weeds

## Background Information

<b>Geology Map:</b>	MRT
<b>Geological Unit:</b>	Permian Sediments
<b>Climate:</b>	Annual rainfall 600mm
<b>Water Connection:</b>	Mains
<b>Sewer Connection:</b>	Serviced-Mains
<b>Testing and Classification:</b>	AS2870:2011, AS1726:2017 & AS4055:2021

## Investigation

A number of bore holes were completed to identify the distribution and variation of the soil materials at the site, bore hole locations are indicated on the site plan. See soil profile conditions presented below. Tests were conducted across the site to obtain bearing capacities of the material at the time of this investigation.

### **Soil Profile Summary**

BH 1 Depth (m)	BH 2 Depth (m)	USCS	Description
0.00-0.10	0.00-0.10	SM	<b>Clayey SILT:</b> trace of gravel, grey, brown, slightly moist, medium dense
	0.10-0.30	SM	<b>Silty SAND:</b> trace of gravel, pale grey, slightly moist, medium dense
0.10-0.30	0.30-0.70	CI	<b>Silty CLAY:</b> medium plasticity, grey, brown, slightly moist, stiff, refusal on rock/boulder.

## Site Notes

Soils on the site are developing from Permian sediments. The clay fraction is likely to show moderate ground surface movement.

## Site Classification

The site has been assessed and classified in accordance with AS2870:2011 “Residential Slabs and Footings”.

The site has been classified as:

### **Class M**

$y_s$  range: **20-40mm**

Notes: that is a moderately reactive clay.

## Wind Loading Classification

According to “AS4055:2021 - Wind Loads for Housing” the house site is classified below:

<b>Wind Classification:</b>	<b>N2</b>
Region:	A
Terrain Category:	2.5
Shielding Classification:	PS
Topographic Classification:	T1
Wind Classification:	N2
Design Wind Gust Speed – m/s ( $V_{h,u}$ ):	40

## Construction Notes & Recommendations

The site has been classified as **Class M** - moderately reactive clay or silt site, which may experience moderate ground movement from moisture changes.

It is recommended the foundations be placed on the underlying bedrock to minimise the potential for foundation movement.

All earthworks on site must comply with AS3798:2007, and I further recommend that consideration be given to drainage and sediment control on site during and after construction. Care should also be taken to ensure there is adequate drainage in the construction area to avoid the potential for weak bearing and foundation settlement associated with excessive soil moisture.

I also recommend that during construction that I and/or the design engineer be notified of any major variation to the foundation conditions as predicted in this report.



Dr John Paul Cumming B.Agr.Sc (hons) PhD CPSS GAICD

*Director*

## Explanatory Notes

### 1 Scope of Works

The methods of description and classification of soils used in this report are based largely on Australian Standard 1726 – Geotechnical Site Investigations (AS1726:2017), with reference to Australian Standard 1289 – Methods for testing soils for engineering purposes (AS1289), for eventual Site Classification according to Australian Standard 2870 (AS2870:2011) – Residential Slabs and Footings and Australian Standard 1547 (AS1547:2012) On-site domestic wastewater management.

#### 1.1 Site Classification AS2870:2011

Site classification with reference to the above Australian Standards are based on site reactivity.

Class	Foundation Conditions	Characteristic Surface Movement
<b>A</b>	Most sand and rock sites with little or no ground movement from moisture changes.	<b>0mm</b>
<b>S</b>	Slightly reactive clay sites, which may experience only slight ground movement from moisture changes.	<b>0 – 20mm</b>
<b>M</b>	Moderately reactive clay or silt sites, which may experience moderate ground movement from moisture changes.	<b>20 – 40mm</b>
<b>H-1</b>	Highly reactive clay sites, which may experience high ground movement from moisture changes.	<b>40 – 60mm</b>
<b>H-2</b>	Highly reactive clay sites, which may experience very high ground movement from moisture changes.	<b>60 – 75mm</b>
<b>E</b>	Extremely reactive sites, which may experience extreme ground movement from moisture changes.	<b>&gt;75mm</b>

*Note: Soils where foundation performance may be significantly affected by factors other than reactive soil movement are classified as **Class P**.*

A site is classified as **Class P** when:

- The bearing capacity of the soil profile in the foundation zone is generally less than 100kpa
- If excessive foundation settlement may occur due to loading on the foundation.
- The site contains uncontrolled fill greater than 0.8m in depth for sandy sites and 0.4m in depth for other soil materials.
- The site is subject to mine subsistence, landslip, collapse activity or coastal erosion.
- The site is underlain by highly dispersive soils with significant potential for erosion
- If the site is subject to abnormal moisture conditions which can affect foundation performance

## 1.2 Soil Characterisation

This information explains the terms of phrase used within the soil description area of the report.

It includes terminology for cohesive and non-cohesive soils and includes information on how the Unified Soil Classification Scheme (USCS) codes are determined.

<b>NON COHSIVE – SAND &amp; GRAVEL</b>		
<b>Consistency Description</b>	<b>Field Test</b>	<b>Dynamic Cone Penetrometer blows/100 mm</b>
Very loose (VL)	Easily penetrated with 13 mm reinforcing rod pushed by hand.	0 - 1
Loose (L)	Easily penetrated with 13 mm reinforcing rod pushed by hand. Can be excavated with a spade; 50 mm wooden peg can be easily driven.	1 - 3
Medium dense (MD)	Penetrated 300 mm with 13 mm reinforcing rod driven with 2 kg hammer, - hard shovelling.	3 - 8
Dense (D)	Penetrated 300 mm with 13 mm reinforcing rod driven with 2 kg hammer, requires pick for excavation; 50 mm wooden peg hard to drive.	8 - 15
Very dense (VD)	Penetrated only 25 - 50 mm with 13 mm reinforcing rod driven with 2 kg hammer.	>15

<b>COHESIVE - SILT &amp; CLAY</b>		
<b>Consistency Description</b>	<b>Field Test</b>	<b>Indicative undrained shear strength kPa</b>
Very soft	Easily penetrated >40 mm by thumb. Exudes between thumb and fingers when squeezed in hand.	<12
Soft	Easily penetrated 10 mm by thumb. Moulded by light finger pressure	>12 and <25
Firm	Impression by thumb with moderate effort. Moulded by strong finger pressure	>25 and <50
Stiff	Slight impression by thumb cannot be moulded with finger.	>50 and <100
Very Stiff	Very tough. Readily indented by thumbnail.	>100 and <200
Hard	Brittle. Indented with difficulty by thumbnail.	>200

### 1.3 USCS Material Descriptions

Soils for engineering purposes are the unconsolidated materials above bedrock, they can be residual, alluvial, colluvial or aeolian in origin.

Major Divisions	Particle size mm	USCS Group Symbol	Typical Names	Laboratory Classification					
				% < 0.075 mm (2)	Plasticity of fine fraction	$C_u = \frac{D_{60}}{D_{10}}$	$C_c = \frac{(D_{30})^2}{(D_{10})(D_{60})}$	NOTES	
COARSE GRAINED SOILS (more than half of material less than 63 mm is larger than 0.075 mm)	BOULDERS _____ 200								
	COBBLES _____ 63								
	GRAVELS (more than half of coarse fraction is larger than 2.36 mm)	coarse _____ 20	GW	Well graded gravels and gravel-sand mixtures, little or no fines	0-5	—	>4	Between 1 and 3	(1) Identify fines by the method given for fine-grained soils.  (2) Borderline classifications occur when the percentage of fines (fraction smaller than 0.075 mm size) is greater than 5% and less than 12%. Borderline classifications require the use of SP-SM, GW-GC.
		medium _____ 6	GP	Poorly graded gravels and gravel-sand mixtures, little or no fines, uniform gravels	0-5	—	Fails to comply with above		
		fine _____ 2.36	GM	Silty gravels, gravel-sand-silt mixtures (1)	12-50	Below 'A' line or PI<4	—	—	
			GC	Clayey gravels, gravel-sand-clay mixtures (1)	12-50	Above 'A' line and PI>7	—	—	
	SANDS (more than half of coarse fraction is smaller than 2.36 mm)	coarse _____ 0.6	SW	Well graded sands and gravelly sands, little or no fines	0-5	—	>6	Between 1 and 3	
		medium _____ 0.2	SP	Poorly graded sands and gravelly sands, little or no fines	0-5	—	Fails to comply with above		
		fine 0.075	SM	Silty sands, sand silt mixtures (1)	12-50	Below 'A' line or PI<4	—	—	
			SC	Clayey sands, sand-clay mixtures (1)	12-50	Above 'A' line and PI>7	—	—	
	FINE GRAINED SOILS (more than half of material less than 63 mm is smaller than 0.075 mm)	SILTS & CLAYS (Liquid Limit ≤50%)	ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity					
			CL CI	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays					
CL			Organic silts and clays of low plasticity						
SILTS & CLAYS (Liquid Limit >50%)		MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts						
		CH	Inorganic clays of high plasticity, fat clays						
		OH	Organic silts and clays of high plasticity						
HIGHLY ORGANIC SOILS		PT	Peat and other highly organic soils						

Use the gradation curve of material passing 63 mm for classification of fractions according to the criteria given in 'Major Divisions'

#### Plasticity Chart

For classification of fine grained soils and fine fraction of coarse grained soils.

Grain size analysis is performed by two processes depending on particle size. Sand silt and clay particles are assessed using a standardised hydrometer test, and coarse sand and larger is assessed through sieving by USCS certified sieves. For more detail see the following section.

Soil Classification	Particle Size
Clay	Less than 0.002mm
Silt	0.002 – 0.06mm
Fine/Medium Sand	0.06 – 2.0mm
Coarse Sand	2.0mm – 4.75mm
Gravel	4.75mm – 60.00mm

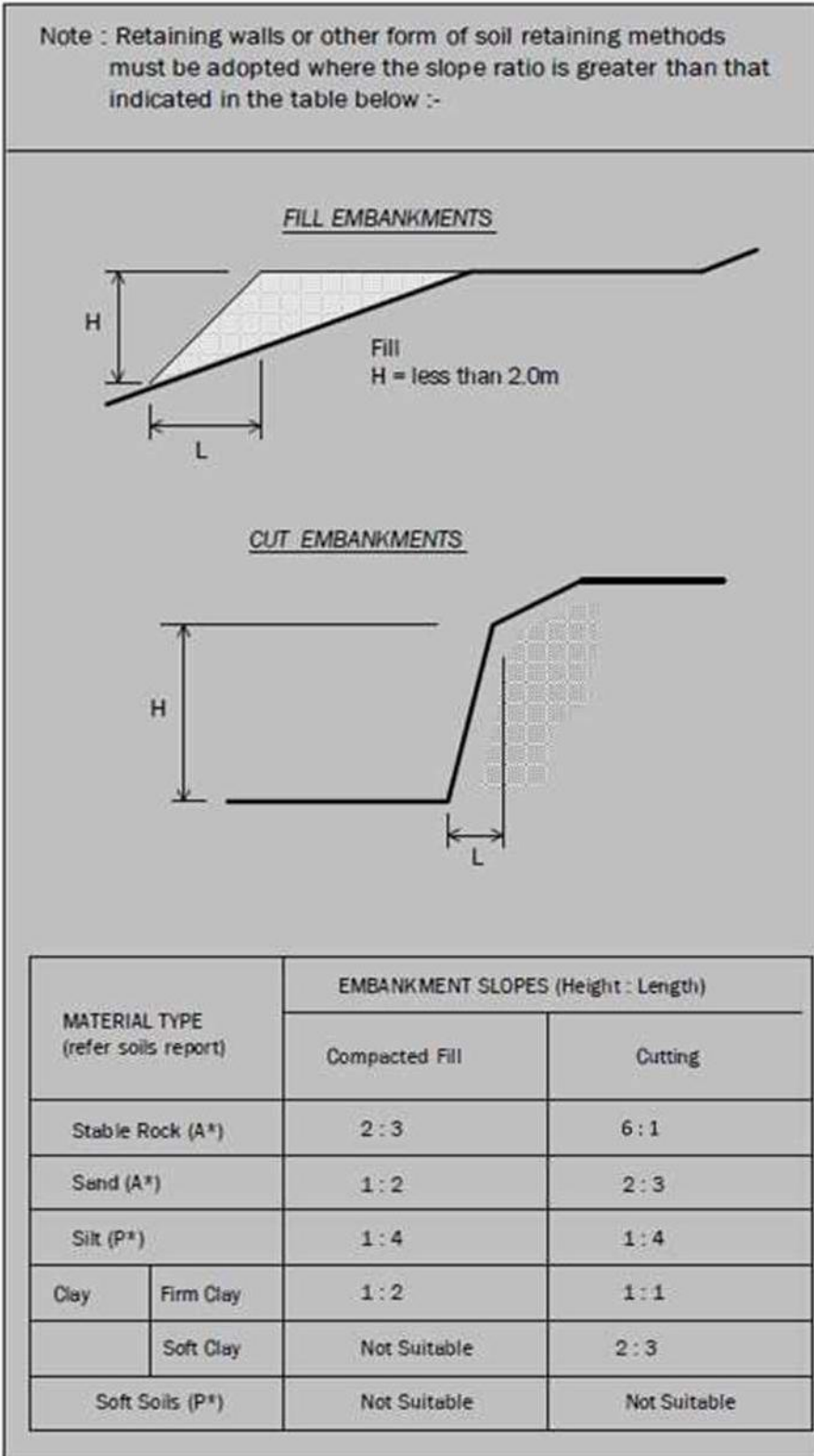
#### 1.4 Bearing Capacities and DCP testing.

DCP and PSP weighted penetrometer tests – Dynamic Cone Penetrometer (DCP) and Perth Sand Penetrometer (PSP) tests are carried out by driving a rod into the ground with a falling weight hammer and measuring the blows for successive 100mm increments of penetration. Normally, there is a depth limitation of 1.2m but this may be extended in certain conditions by the use of extension rods. The methods for the two tests are quite similar.

- Dynamic Cone Penetrometer – a 16mm rod with a 20mm diameter cone end is driven with a 9kg hammer dropping 510mm (AS 1289, Test 6.3.2).
- Perth Sand Penetrometer – a 16mm diameter flat-ended rod is driven with a 9kg hammer, dropping 600mm (AS 1289 Test 6.3.3). This test was developed for testing the density of sands and is mainly used in granular soils and filling.

Site Anomalies – During construction GES will need to be notified of any major variation to the foundation conditions as predicted in this report.

**1.5 Batter Angles for Embankments (Guide Only)**



## Glossary of Terms

**Bearing Capacity** – Maximum bearing pressure that can be sustained by the foundation from the proposed footing system under service loads which should avoid failure or excessive settlement.

**Clay** – (Mineral particles less than 0.002mm in diameter). Fine grained cohesive soil with plastic properties when wet. Also includes sandy clays, silty clays, and gravelly clays.

**Dynamic Cone Penetrometer (DCP)** – Field equipment used to determine underlying soil strength and therefore bearing capacity (kPa) by measuring the penetration of the device into the soil after each hammer blow.

**Dispersive soil** – A soil that has the ability to pass rapidly into suspension in water.

**Footing** – Construction which transfers the load from the building to the foundation.

**Foundation** – Ground which supports the building

**Landslip** – Foundation condition on a sloping site where downhill foundation movement or failure is a design consideration.

**Qualified Engineer** – A professional engineer with academic qualifications in geotechnical or structural engineering who also has extensive experience in the design of the footing systems for houses or similar structures.

**Reactive Site** – Site consisting of clay soil which swells on wetting and shrinks on drying by an amount that can damage buildings on light strip footings or unstiffened slabs. Includes sites classified as S, M, H-1, H-2 & E in accordance with AS2870-2011.

**Sand** – (Mineral particles greater than 0.02mm in diameter). Granular non-cohesive, non-plastic soil that may contain fines including silt or clay up to 15%.

**Services** – Means all underground services to the site including but not limited to power, telephone, sewerage, water & storm water.

**Silt** – (Mineral particles 0.002 – 0.02mm in diameter). Fine grained non-cohesive soil, non-plastic when wet. Often confers a silky smoothness of field texture, regularly includes clay and sand to form clayey silts, sandy silts and gravelly silts.

**Site** – The site title, as denoted by address, lot number, or Certificate of Title (CT) number, or Property Identification Number (PID).

**Surface Movement (Ys)** – Design movement (mm) at the surface of a reactive site caused by moisture changes.

## **Disclaimer**

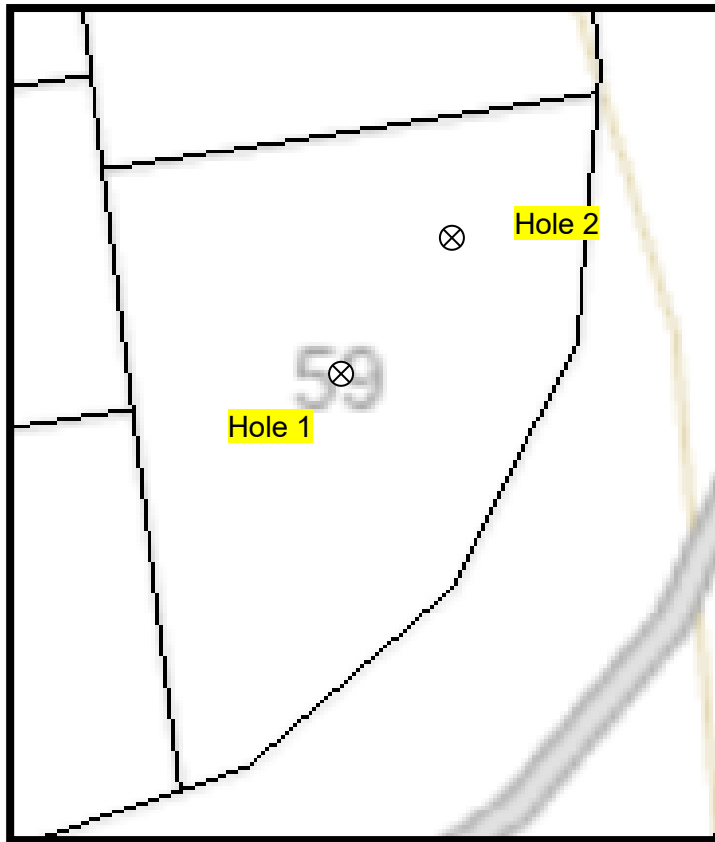
This Report has been prepared in accordance with the scope of services between Geo-Environmental Solutions Pty. Ltd. (GES) and the Client. To the best of GES's knowledge, the information presented herein represents the client's requirements at the time of printing of the Report. However, the passage of time, manifestation of latent conditions or impacts of future events may result in findings differing from that discussed in this Report. In preparing this Report, GES has relied upon data, surveys, analyses, designs, plans and other information provided by the Client and other individuals and organisations referenced herein. Except as otherwise stated in this Report, GES has not verified the accuracy or completeness of such data, surveys, analyses, designs, plans and other information.

The scope of this study does not allow for the review of every possible geotechnical parameter or the soil conditions over the whole area of the site. Soil and rock samples collected from the investigation area are assumed to be representative of the areas from where they were collected and not indicative of the entire site. The conclusions discussed within this report are based on observations and/or testing at these investigation points.

This report does not purport to provide legal advice. Readers of the report should engage professional legal practitioners for this purpose as required.

No responsibility is accepted for use of any part of this report in any other context or for any other purpose by a third party.

**Site Plan**



**Appendix 2 – Site Photos**



# CERTIFICATE OF QUALIFIED PERSON – ASSESSABLE ITEM

Section 321

Form **55**

To:  Owner /Agent  
 Address  
  Suburb/postcode

## Qualified person details:

Qualified person:   
Address:  Phone No:   
  Fax No:   
Licence No:  Email address:

Qualifications and Insurance details:  *(description from Column 3 of the Director's Determination - Certificates by Qualified Persons for Assessable Items)*

Speciality area of expertise:  *(description from Column 4 of the Director's Determination - Certificates by Qualified Persons for Assessable Items)*

## Details of work:

Address:  Lot No:   
  Certificate of title No:

The assessable item related to this certificate:  *(description of the assessable item being certified)*  
*Assessable item includes –*  

- a material;
- a design
- a form of construction
- a document
- testing of a component, building system or plumbing system
- an inspection, or assessment, performed

## Certificate details:

Certificate type:  *(description from Column 1 of Schedule 1 of the Director's Determination - Certificates by Qualified Persons for Assessable Items n)*

This certificate is in relation to the above assessable item, at any stage, as part of - (tick one)

building work, plumbing work or plumbing installation or demolition work   
or

a building, temporary structure or plumbing installation:

In issuing this certificate the following matters are relevant –

Documents:	The attached soil report for the address detailed above in 'details of work'
Relevant calculations:	Reference the above report.
References:	AS2870:2011 residential slabs and footings AS1726:2017 Geotechnical site investigations CSIRO Building technology file – 18.

*Substance of Certificate: (what it is that is being certified)*

Site Classification consistent with AS2870-2011.
--

*Scope and/or Limitations*

The classification applies to the site as inspected and does not account for future alteration to foundation conditions as a result of earth works, drainage condition changes or variations in site maintenance.
---

**I, John-Paul Cumming certify the matters described in this certificate.**

Qualified person:	<i>Signed:</i>	<i>Certificate No:</i>	<i>Date:</i>
		J12817	20/03/2026

