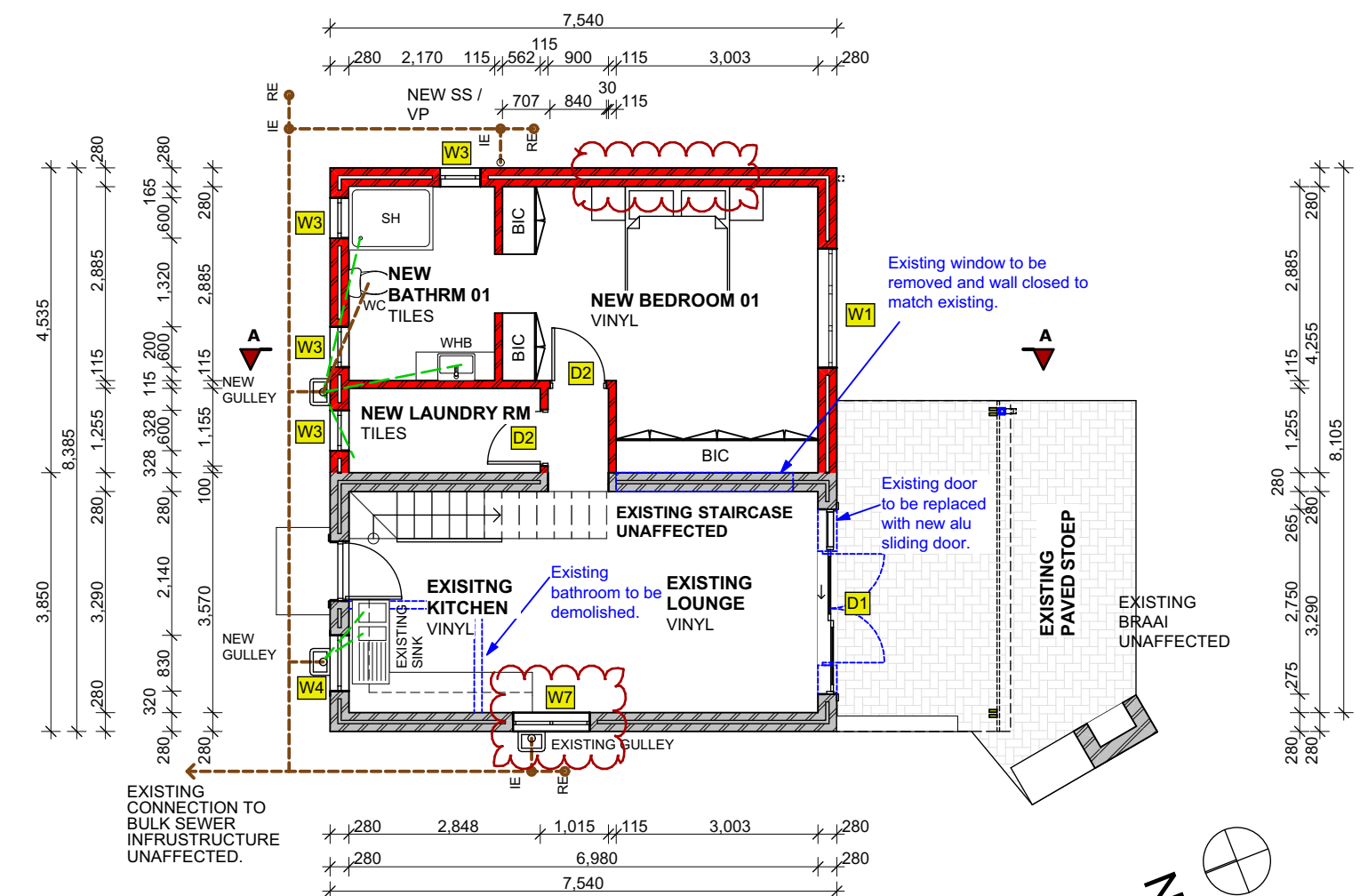


FIRST LEVEL PLAN
SCALE 1:100



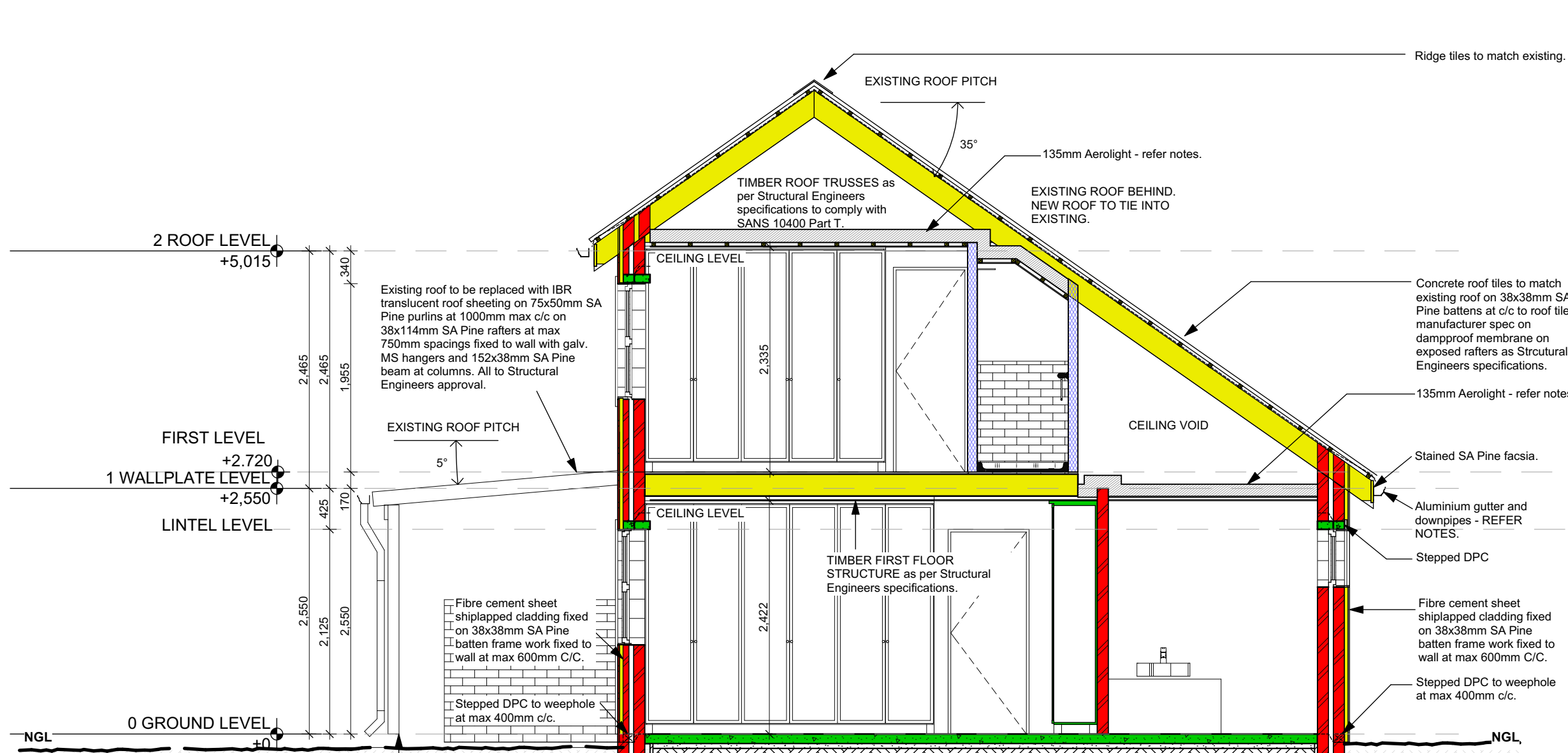
GROUND LEVEL PLAN
SCALE 1:100

DOOR SCHEDULE SCALE 1:50	D1 ALUMINIUM	D2 TIMBER - SEMI-SOLID	D3 TIMBER - SLIDING DOOR
DOOR TYPE	Aluminium framed sliding door.	SEMI-SOLID timber masonite door with timber frame.	SEMI-SOLID timber masonite surface mounted sliding door.
DOOR	Aluminium framed sliding door.	44mm thick semi-solid flush panel masonite door.	44mm thick semi-solid flush panel masonite door.
DOOR FRAME	As per door frame section requirements.	Hardwood timber frame to fit door.	N/A
FINISH	Powder coated. Colour: CHARCOAL.	As per Paint Specialist specification.	As per Paint Specialist specification.
GLAZING	REFER XA CALCULATION TABLE	N/A	N/A
IRONMONGERY	To client requirements.	To client requirements.	To client requirements.

WINDOW SCHEDULE SCALE 1:50	W1 ALUMINIUM	W2 ALUMINIUM	W3 ALUMINIUM	W4 ALUMINIUM	W5 ALUMINIUM	W7 ALUMINIUM
WINDOW TYPE	Aluminium top hung section as per aluminium manufacturer.	Aluminium top hung section as per aluminium manufacturer.	Aluminium top hung section as per aluminium manufacturer.	Aluminium top hung section as per aluminium manufacturer.	Aluminium top hung section as per aluminium manufacturer.	Aluminium top hung section as per aluminium manufacturer.
WINDOW	Aluminium top hung section as per aluminium manufacturer.	Aluminium top hung section as per aluminium manufacturer.	Aluminium top hung section as per aluminium manufacturer.	Aluminium top hung section as per aluminium manufacturer.	Aluminium top hung section as per aluminium manufacturer.	Aluminium top hung section as per aluminium manufacturer.
WINDOW FRAME	Approved aluminium frame. Minimum section size 40mm.	Approved aluminium frame. Minimum section size 40mm.	Approved aluminium frame. Minimum section size 40mm.	Approved aluminium frame. Minimum section size 40mm.	Approved aluminium frame. Minimum section size 40mm.	Approved aluminium frame. Minimum section size 40mm.
FINISH	Powder coated. Colour: CHARCOAL.	Powder coated. Colour: CHARCOAL.	Powder coated. Colour: CHARCOAL.	Powder coated. Colour: CHARCOAL.	Powder coated. Colour: CHARCOAL.	Powder coated. Colour: CHARCOAL.
GLAZING	REFER XA CALCULATION TABLE	REFER XA CALCULATION TABLE	REFER XA CALCULATION TABLE	REFER XA CALCULATION TABLE	REFER XA CALCULATION TABLE	REFER XA CALCULATION TABLE

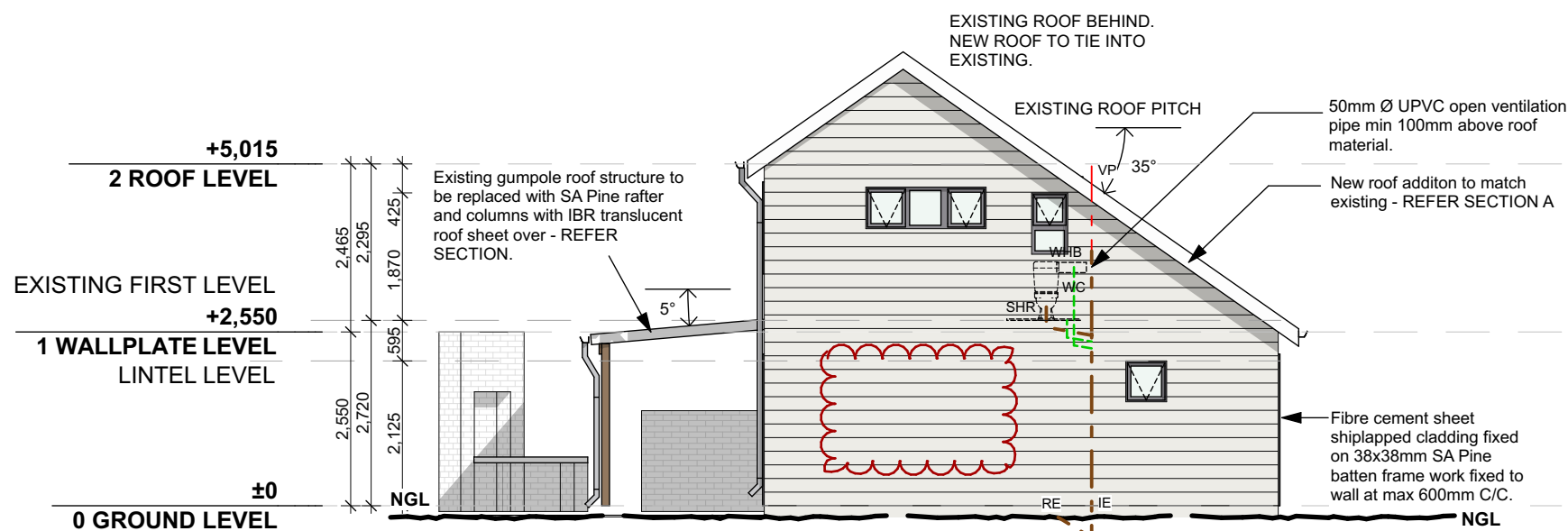
PROPOSED NEW RETIREMENT RESORT PTN 41 THE FARM RONDE VALLEY 187 SEDGFIELD

8m HEIGHT RESTRICTION



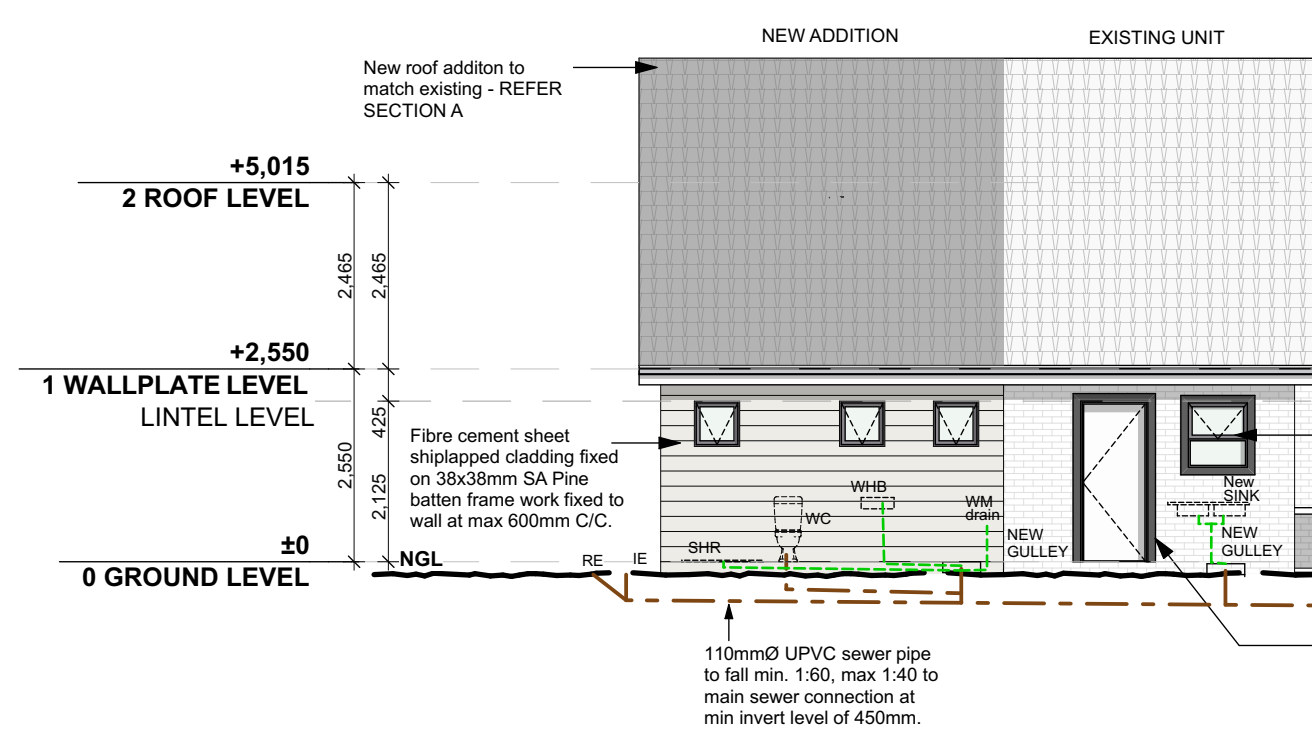
SECTION A
SCALE 1:50

8m HEIGHT RESTRICTION



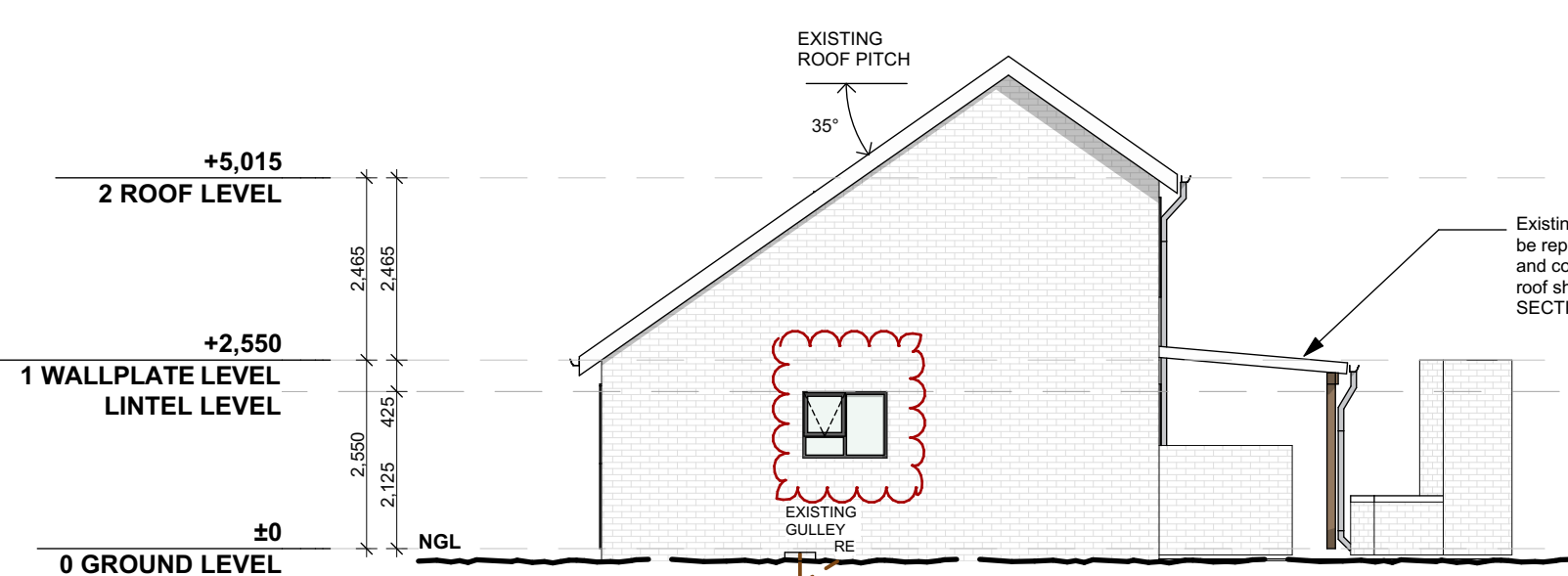
NORTH ELEVATION
SCALE 1:100

8m HEIGHT RESTRICTION



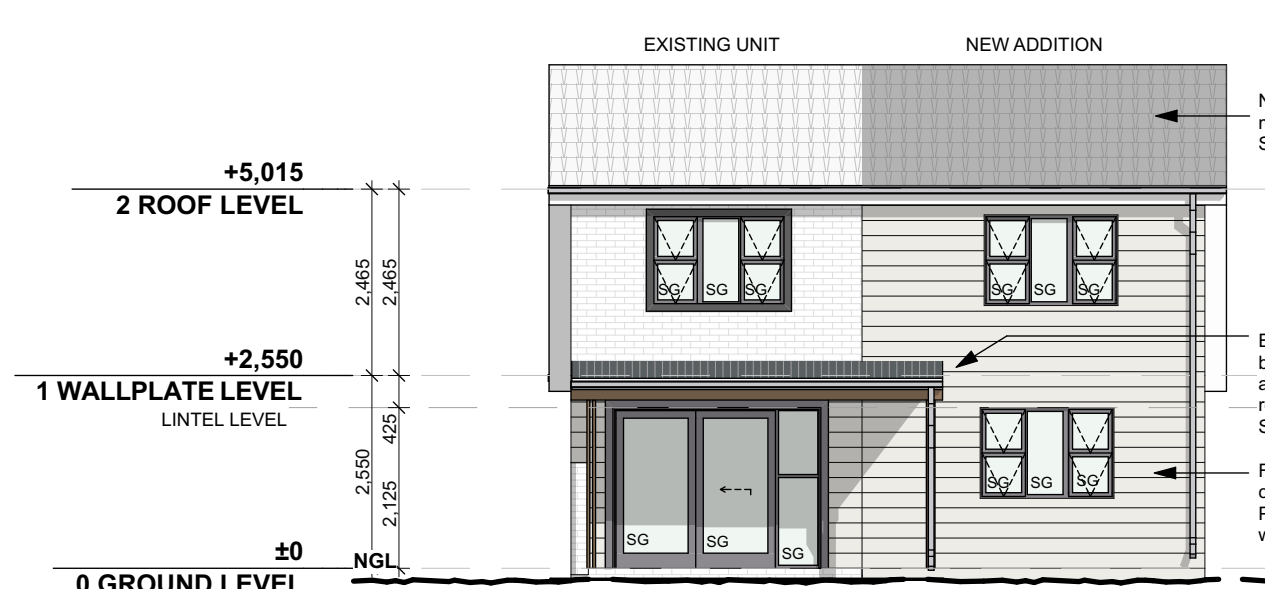
SOUTH ELEVATION
SCALE 1:100

8m HEIGHT RESTRICTION



WEST ELEVATION
SCALE 1:100

8m HEIGHT RESTRICTION



EAST ELEVATION
SCALE 1:100

FENESTRATION: Design

Buildings with Natural Environmental Control

Fenestration Constants

Conductance (C _g) constant	1.40
Solar Heat Gain (C _{SHGC}) constant	0.13

SANS 10400XA COMPLIANCE

Ground Storey

Net Floor Area of Storey / Room: m ²	55,000
Fenestration Area of Storey / Room: m ²	10,973
% Fenestration Area to Net Floor Area: %	19.951

COMPLY: No further calculation required. Refer Table 4 below.

First Storey

Net Floor Area of Storey / Room: m ²	29,000
Fenestration Area of Storey / Room: m ²	5,731
% Fenestration Area to Net Floor Area: %	19.762

COMPLY: No further calculation required. Refer Table 4 below.

Storey Level	Gazing Ref	Quantity	Width (m)	Height (m)	Area
Ground Storey	D1	1	2.75	2.08	5.72
Ground Storey	W1	1	1.77	1.2	2.124
Ground Storey	W2	0	1.765	0.57	0
Ground Storey	W3	4	0.6	0.6	1.44
Ground Storey	W4	1	0.78	0.85	0.663
Ground Storey	W7	1	1.14	0.9	1.026
*****	0	0	0	0	
First Storey	W1	2	1.77	1.2	4.248
First Storey	W2	1	1.765	0.57	1.00605
First Storey	W5	1	0.53	0.9	0.477

Hot Water Services			
Occupancy Class Type	Residential - Low rental	80-115 L/cap/day	
Estimated Hot Water Consumption	75.0	Per Day/ 24	
No. of Persons	4		
Assumed Daily Hot Water Consumption	300.0		
(Daily Hot Water Consumption x Occupancy design days x 35 weeks of the year)/1000 = Hot water Consumption (K/L)			
Assumed Annual Hot Water Consumption	109.20		
50 % of Annual Hot Water Consumption	54.60		
CONCLUSION			
Dwelling to be provided with min		150.0	L Water vessel: Electrical & Solar heating system combination
		OR	Alternative means other than electrical resistance heating, including, but not limited to, solar heating, heat pumps, heat recovery from other systems or processes.
Thermal Insulation Requirements			
Internal diameter of Hot Water Service Pipe	≤ 80	mm	
Minimum Required R-value for Pipe Insulation	1.0	m ² K/W	Refer SANS 204 (4.5.2)
Hot Water Vessels			
Minimum Required R-value for Vessel	2.0	m ² K/W	Additional insulation to manufacturer's insulation may be required to achieve this value.
ROOF Design			
Roads Assembly	SANS 10400-XA		
Min. Required R-value	3.30	m ² K/W	
Minimum Total R-value required	3.30	m ² K/W	
Direction of heat flow	Up		
Obtained R-value			
Roof Covering Material	Clay tile type		
Roof covering material R-value	0.35	m ² K/W	
Ceiling R-value	0.05	m ² K/W	
Total obtained R-value	0.40	m ² K/W	Min R-value NOT Achieved, Refer to SANS 204
Obtained R-value			
Is Roof vented?	Unventilated		
Type roof construction	Concrete slab 125 mm thick		
R-value for Roof	0.03	m ² K/W	
Heat flow Direction	Down		
Moving Air (m/s)	0.02		
Roof tile, clay or concrete (kg/m ²)	0.02		
Roof air space (non-reflective)	0.18		
Plasterboard, gypsum (10 mm, 880 kg/m ³)	0.06		
Unventilating Air	0.11		
Total Obtained R-value	0.4	m ² K/W	Min R-value NOT Achieved: Thermal Insulation Require
Thermal Insulation SANS 204			
Insulation product to be installed	Flexible fibre glass blanket		See SANS 204 (4.3.6.2)
Density of insulation to be installed	13 - 18	kg/m ³	
Min. Thickness of insulation to be installed	130.00	mm	
Insulation required with minimum R-Value	3.30	m ² K/W	
RECOMMENDATION			
It is recommended that a Flexible fibre glass blanket with a thickness of 135 mm needs to be installed in order to achieve the min. additional R-value of 3.3 m ² K/W			

AREA SCHEDULE UNIT G 171 REV 0

SITE AREA:	92 358m ²
EXISTING COVERAGE ACTUAL:	17 270m ²
NEW COVERAGE	34m ²
G169	33m ²
G176	6m ²
NEW TOTAL	17 342m ²
GROSS BUILDING AREA:	
INCLUDED:	
EXTERNAL WALL AREA	
STAIR AND DOUBLE VOLUME CALCULATED ONCE	
GROUND LEVEL	
EXISTING	29m ²
NEW (COVERAGE)	34m ²
FIRST LEVEL	
EXISTING	21m ²
NEW	13m ²
COVERED PATIO	13m ²
TOTAL EXISTING GBA	43m ²
TOTAL NEW GBA	47m ²
NEW TOTAL GBA:	110m ²

NETT FLOOR AREA:

MEASURED TO INSIDE OF EXTERNAL WALLS

GROUND LEVEL	55m ²
FIRST LEVEL	29m ²
TOTAL GBA:	83m ²

GENERAL NOTES

- * All building work to comply with SABS 0400
- * No dimensions to be scaled or scanned from drawing
- * All dimensions to be checked on site before any work is put to hand
- * Where applicable the contractor is to check on site the size of components to be manufactured prior to installation
- * Contractor is responsible for correct setting out of the buildings, all external and internal walls with particular reference to boundaries, building lines, etc.
- * Contractor to verify all levels, heights and dimensions on site and to check the same against the drawings before putting any work in hand.
- * Contractor is to locate and identify existing services on the site and protect these from damage throughout the duration of the works.
- * Any errors, discrepancies or omissions to be reported immediately.
- * Contractor is to build in approved 4 ply D.P.C. weather or not these are shown on drawings, to all walls at each floor, beam or parapet level and to all windows, doors, grilles or other openings in external walls.
- * Any queries arising from all the above must be reported and clarified before any works is put in hand.
- * This drawing to be read in conjunction engineers drawings when applicable.

DRAINAGE NOTES

- * All plumbing and drainage work and installation of sanitary fittings to comply with the relevant Local Authority by-laws, regulations and requirements.
- * Provide I.E. 's to all bends and junctions with suitable markers at ground level and to be fully accessible at all times.
- * Minimum 150 fall to all drain pipes and columns with IBR translucent roof sheet over - REFER SECTION
- * Provide approved resal traps to all waste fittings
- * Provide A.E. 's to foot of all soil stacks.
- * All soil pipes passing under buildings or footings to be protected against loads.

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- * The client accept the responsibility of materials, content and statement.
- * The elements shown on this drawing are prototypical design only. They implemented in part, or in whole, in any structure without notification and written approval being issued by arcol architects.

REGISTERED OWNER DETAILS:	DATE:
SORINA VAN DEVENTER ARCOL ARCHITECTS SACAP REG NO. 6641 GEORGE MOSELE BAY PO BOX 13256 Garden Route Mail 6646	7/11/2023 SIGNATURE OF OWNER/CLIENT:
REGISTERED ARCHITECT DETAILS:	DATE:
SORINA VAN DEVENTER ARCOL ARCHITECTS SACAP REG NO. 6641 GEORGE MOSELE BAY PO BOX 13256 Garden Route Mail 6646	7/11/2023 SIGNATURE OF ARCHITECT:

REVISIONS

REV 1	7/11/2023	1. W2 omitted and W7 added.
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DRAWING STATUS

MUNICIPAL SUBMISSION

PROJECT TITLE

PROPOSED ALTERATIONS
AND ADDITIONS TO UNIT
G 171 TIPE D

FOR THE
PROPOSED NEW RETIREMENT RESORT
PTN 41 THE FARM RONDE VALLEY 187
SEDGFIELD

DRAWING DESCRIPTION

UNIT G 171 LAYOUTS REV 1

SCALE	AS SHOWN
DATE	DATE OF 1ST ISSUE
ISSUED	19-03-2021
DRAWN BY	Andrew Schenk
CHECKED BY	Andrew Schenk
ARCHITECT	Andrew Schenk



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PROJECT NO:	DRAWING NO:	REVISION
2226	06	1