

CONSTRUCTION CERTIFICATE

Lot 3352 - 21 SEVILLE CIRCUIT GLEDSDOOD HILLS

NOTES:

Swimming Pools and Spas - The swimming pool/spa shall comply with:
a) the *Swimming Pools Act 1992*;
b) the Swimming Pools Regulation 2008;
c) AS 1926.1-2012 'Swimming Pool Safety' Part 1: Safety barriers for swimming pools;
d) AS 3500.2-2003 'Plumbing and drainage - Sanitary plumbing and drainage';
e) AS1926.3 'Water recirculation systems'; and
f) the BCA.

BASIX Certificate - The applicant shall undertake the development strictly in accordance with the commitments listed in the approved BASIX certificate(s) for the development to which this consent applies.

Balcony fronting Seville Circuit - Off Master Bedroom
A Privacy screen has been nominated to be installed. The screen must have a minimum block out density of 75% and a height of 1.5m above the floor level of the balcony.

Driveway Gradients and Design - The design of all driveways shall comply with AS 2890.1-2004 'Off street car parking' and:
a) the driveway shall comply with Council's Access Driveway Specifications;
<https://www.camden.nsw.gov.au/assets/pdfs/Development/Preparing-a-DA/Development-Guidelines-and-policies/Access-Driveways-Specifications-and-Drawings.pdf>

b) the driveway shall be at least 1m from any street tree, stormwater pit or service infrastructure;
c) the level for the driveway across the footpath area shall achieve a gradient of 4%; and
d) a Driveway Crossing Approval (PRA) must be obtained prior to the issue of a Construction Certificate.

NOTES:

Salinity (Dwellings and Outbuildings) - The approved development shall comply with the requirements of the salinity management plan titled "Report on Salinity Investigation and Management Plan - El Caballo Blanco, Gledswood Hills", project 76631.03, dated April 2015 and prepared by Douglas Partners.

Alternatively, a site-specific analysis including recommendations, prepared by a suitably qualified consultant and referencing Australian Standard AS2870-2011 and Council's Engineering Specifications, shall be submitted to the accredited certifier. Details demonstrating compliance shall be provided to the accredited certifier with the Construction Certificate application.

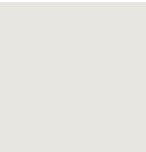
Wall Types

-  Brick Veneer
-  Solid Brick
-  Hebel external panel on Timber Stud and Top Hat

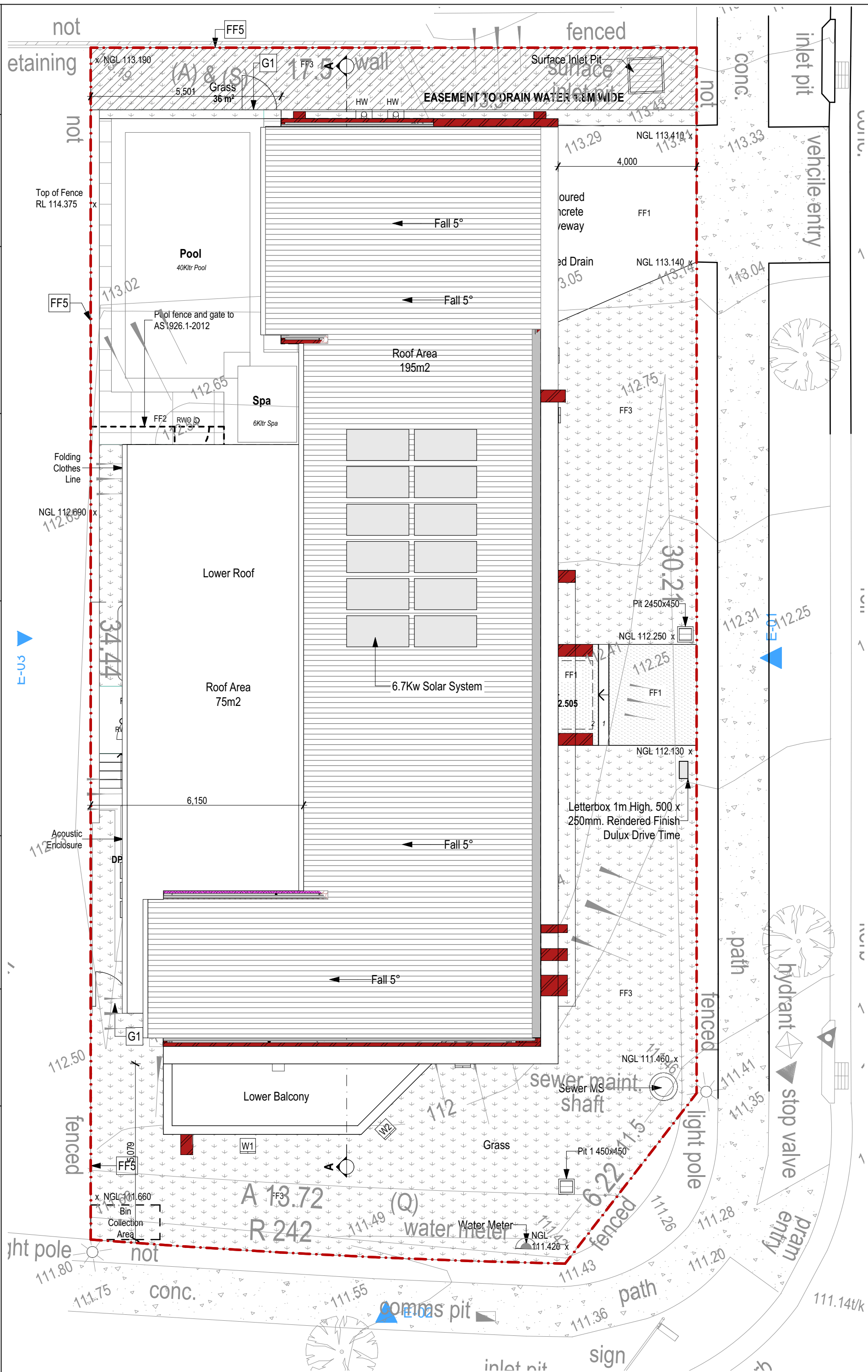
BAL-29 Compliance Requirements

Component	Requirement	Proposed	Comply
External Walls	Non Combustible	Brick Veneer	Yes
Joints in External Walls	Gaps no more than 3mm	Gaps no more than 3mm	Yes
Vents and Weepholes	Screened with a mesh with appeture no more than 2mm made from corosion resistant steel except where gaps are less than 3mm	Corrosion Resistant Steel mesh with appeture less than 2mm	Yes
Window Frame	Metal	Aluminium	Yes
Window Hardware External	Metal	Metal	Yes
Window Glazing	Toughened Glass minimum 5mm	Manufacturer to ensure compliance with NatHERS certificate and/or minimum toughened glass 5mm, whichever is the greater	Yes
Proximity to Floor	400 mm from the ground or less than 400 mm above decks, carport roofs, awnings and similar elements	All windows above 400mm Stainless Steel Flyscreen mounted externally if constructed differently	Yes
Openable portion of windows	Screen internally or externally with corrosion resistant metal screen with appeture less than 2mm	All windows to have stainless steel fly screens	Yes
Doors and Door frames	Frames made from metal and screened with corrosion resistant metal screen with appeture less than 2mm	Aluminium framed doors with stainless steel fly screen externally	Yes
Dwelling Entry Door	Made from a non combustible material with external metal fittings	Fire rated door or fire rated glass or the like with external metal fittings	Yes
Sliding Doors	Made from a metal frame and screened externally with corrosion resistant metal with appeture less than 2mm	Frame made from aluminium with external stainless steel fly screen	Yes
Garage Roller Door	Guide tracks with a maximum gap no greater than 3 mm and shall be fitted with a nylon brush that is in contact with the door	manufacturer to comply with requirements as listed adjacent	Yes
Roof Tiles	Made from non combustible material	Colorbond	Yes
Roof/Wall Junction	Shall have gaps no larger than 3mm	Contractor to comply	Yes
Roof Sarking	Sarking shall be placed to entire roof area	Contractor to comply	Yes
Ballustrades	Made from a non combustible material	Aluminium or Metal framed construction	Yes

Schedule of Finishes

	F1 Rendered painted finish Dulux Drive Time		Garage Door Colorbond Ironstone		FF2 Tiled Finish 300mm x 600mm Graphite Grey Colour
	F2 Rendered painted finish Dulux Whitsunday Island		Aluminium Window and Door framing Colorbond Gully		FF5 Timber Paling Fence 1800mm high, 86mm wide and 15mm thick primed timber with palings spaced 10mm apart. Painted - Dulux Hog Bristle Quarter
	F3 Rendered painted finish Dulux Excelsior		FF1 Coloured Concrete Finish Hanson Kolormasta Graphite		F4 PGH Cultured Stone Profit Ledgestone Southwest

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							ISSUE. B				
							JOB NO. A20200001				
							SCALE. 1:100 ON A3				
							PAGE. A000				
							B 22.08.20 DRAFT CC				PROJECT. RESIDENTIAL DWELLING
							A 06.08.20 DRAFT CC				ADDRESS. Lot 3352 - 21 SEVILLE CIRCUIT GLEDSDOOD HILLS
		REV. DATE. DESCRIPTION.			CLIENT. MADINA						



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APPLICATION TYPE

CONSTRUCTION CERTIFICATE

CONSULTANTS

ARCHITECT

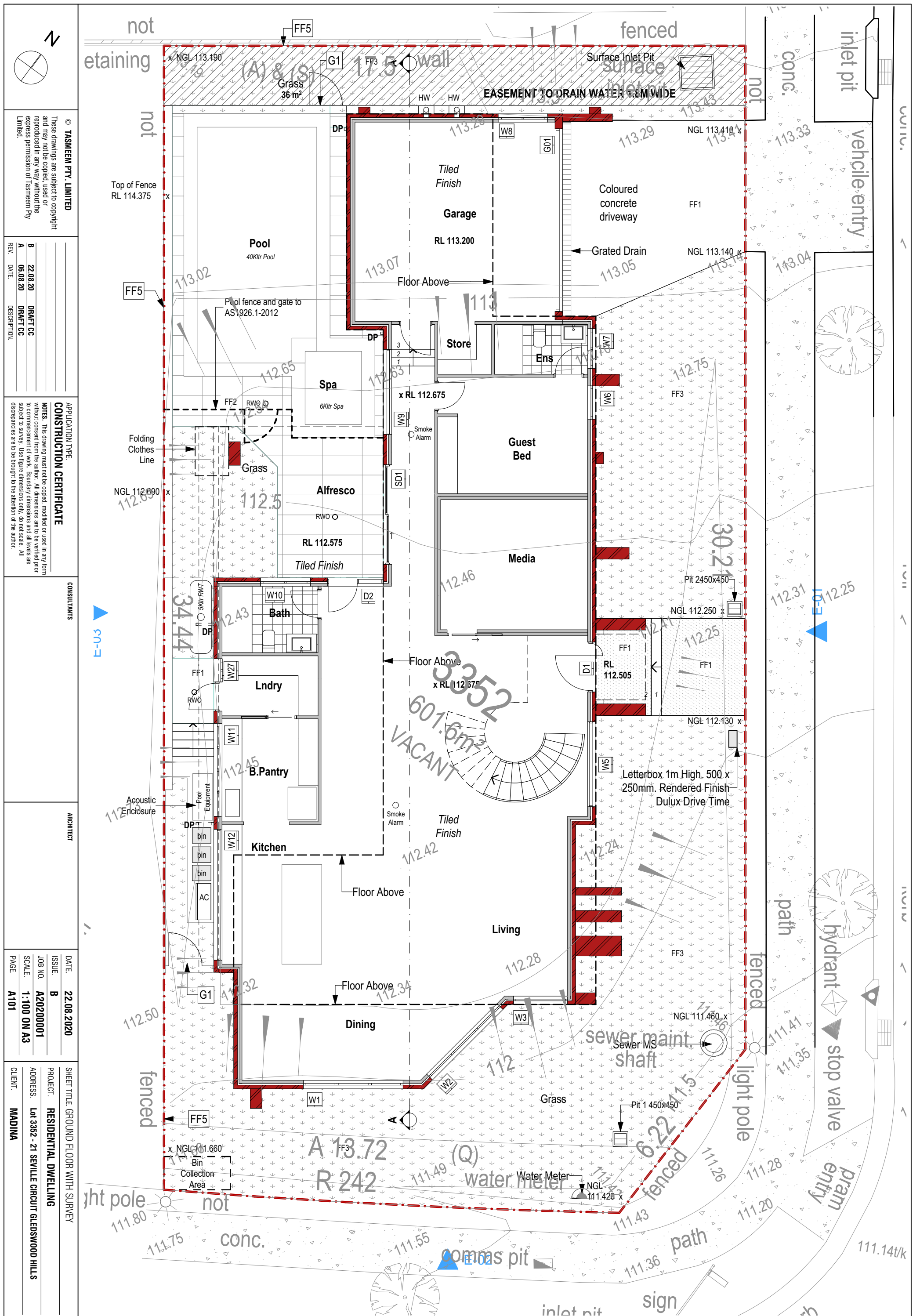
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ISSUE:	B
JOB NO.	A20200001
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PAGE:	A100

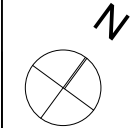
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PROJECT. RESIDENTIAL DWELLING

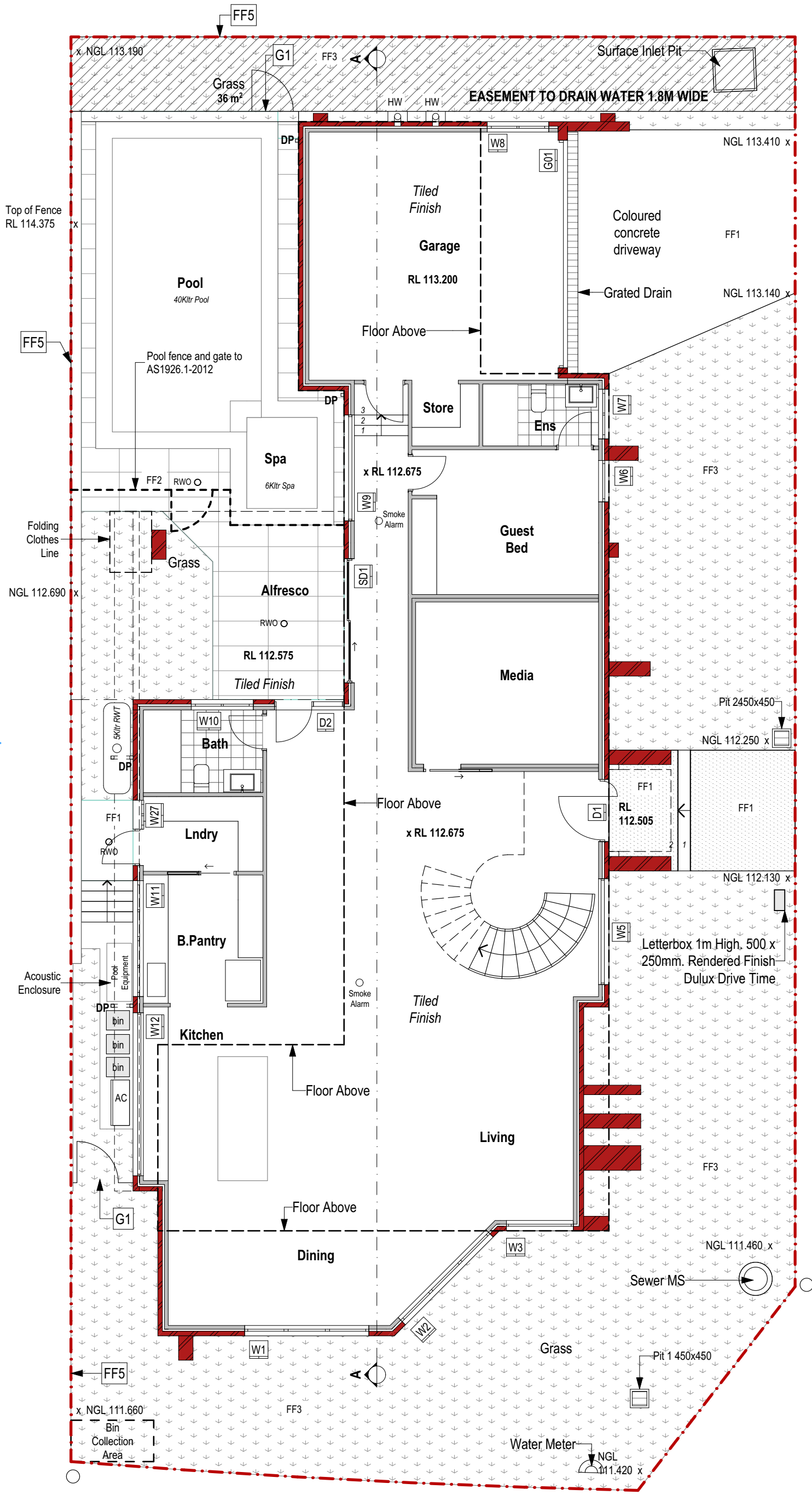
ADDRESS. **Lot 3352 - 21 SEVILLE CIRCUIT GLEDSDOOD HILLS**

CLIENT. **MADINA**

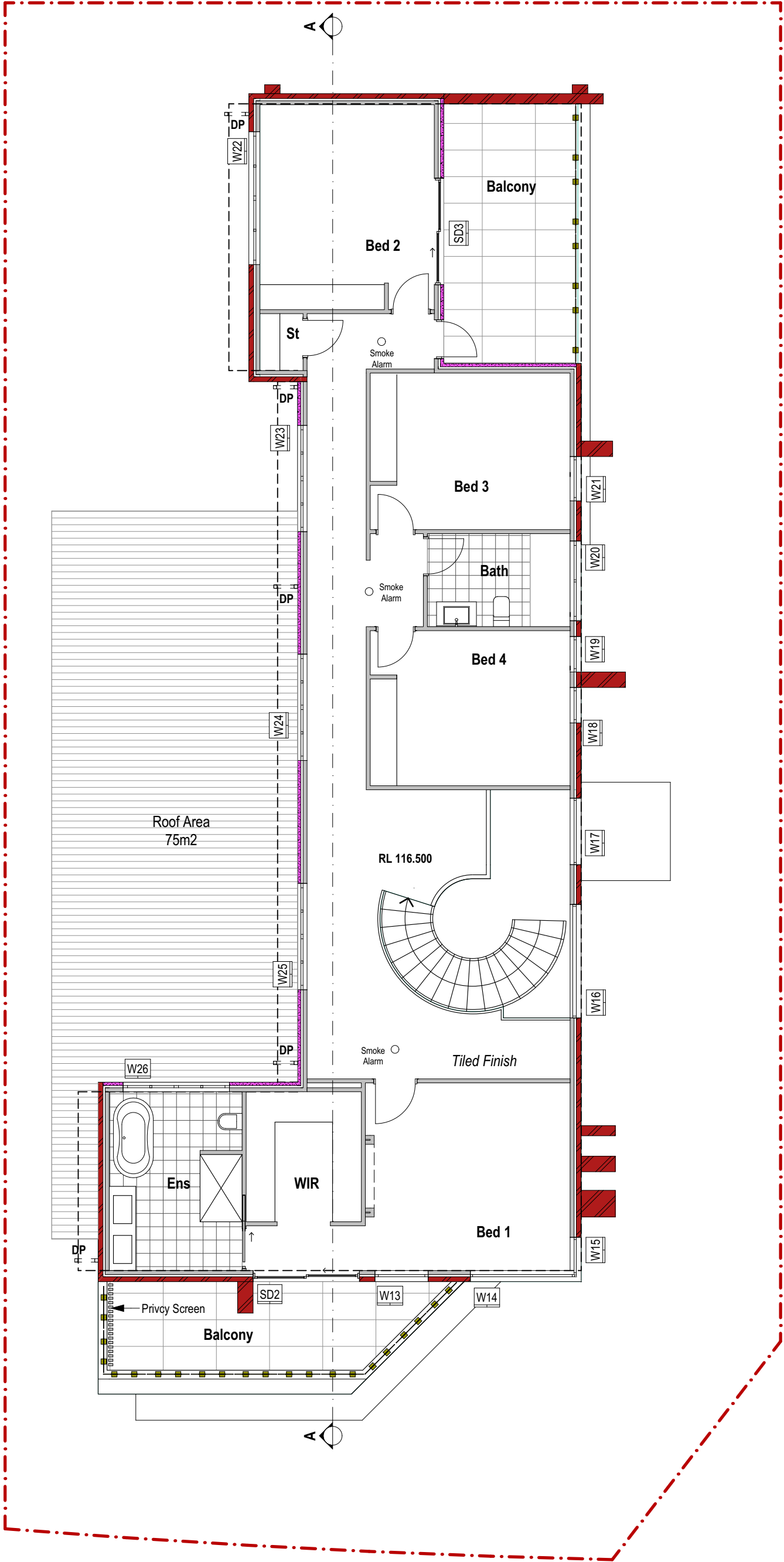


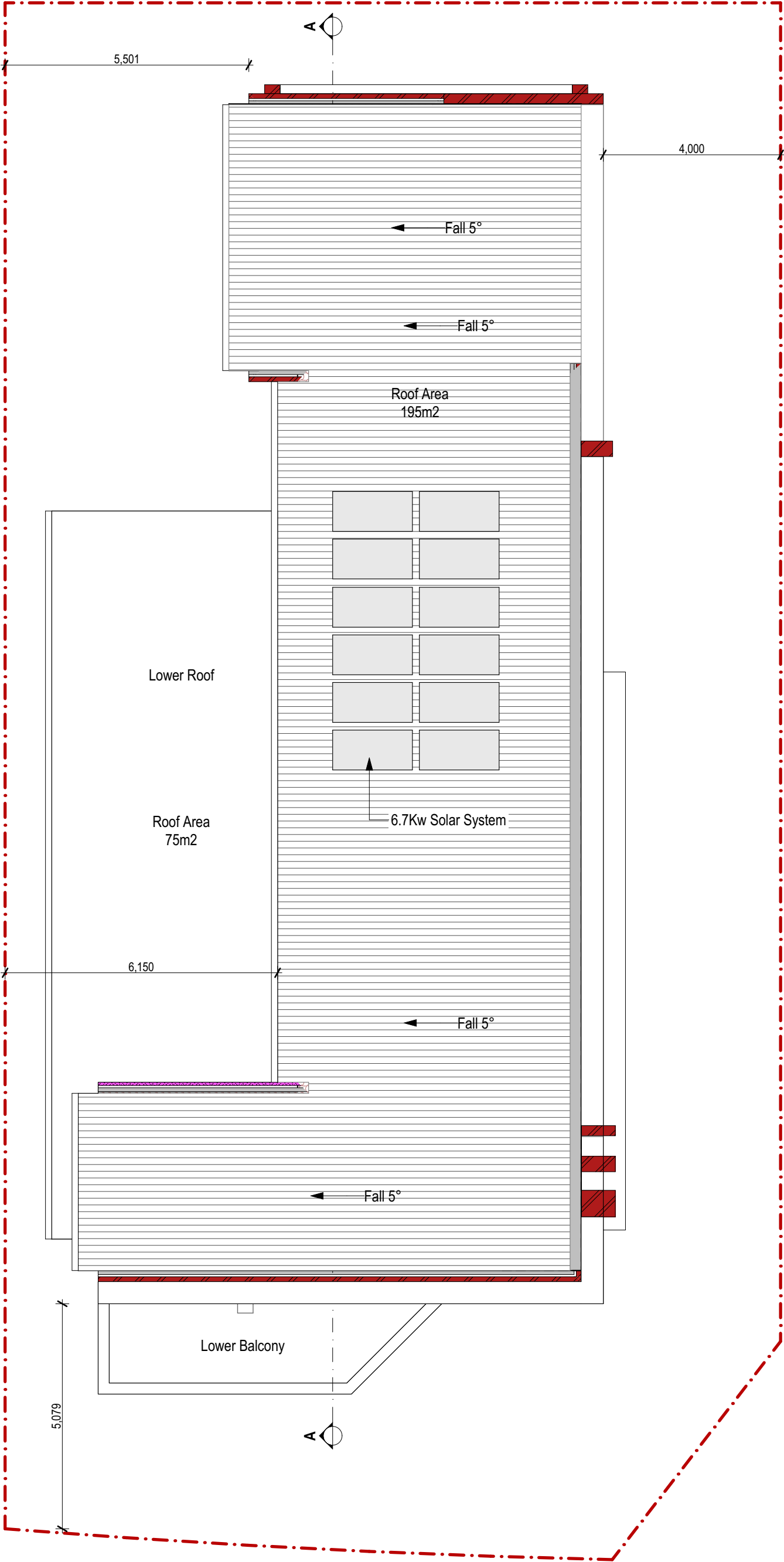


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												JOB NO. A20200001					
A 06.08.20						DRAFT CC						SCALE: 1:100 ON A3					
B 22.08.20						DRAFT CC						PAGE: A200					
REV. DATE DESCRIPTION												PROJECT: RESIDENTIAL DWELLING					
												ADDRESS: Lot 3352 - 21 SEVILLE CIRCUIT GLEDSDOWN HILLS					
												CLIENT: MADINA					



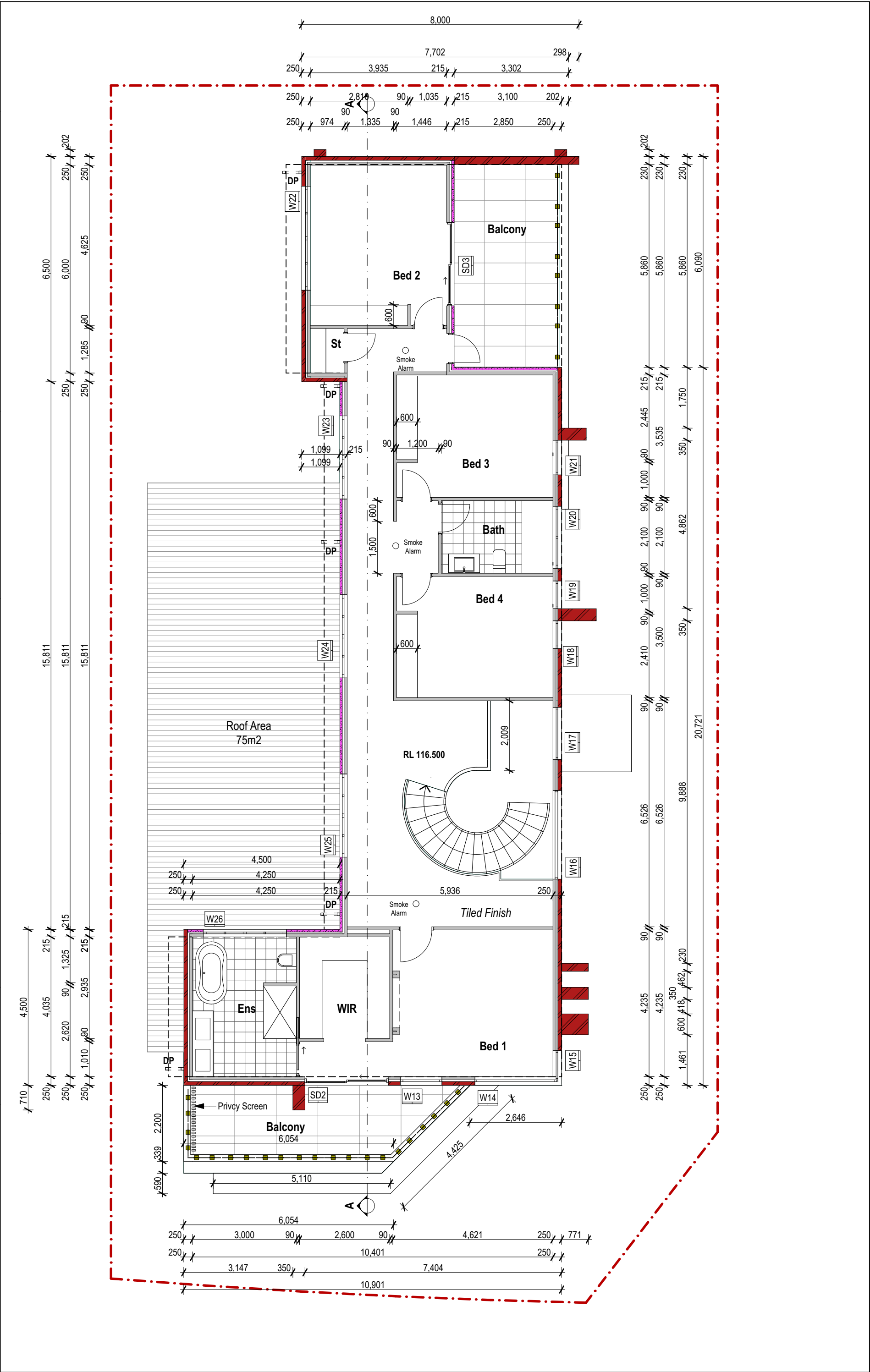
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REV. DATE DESCRIPTION A 06.08.20 DRAFT CC B 22.08.20 DRAFT CC											
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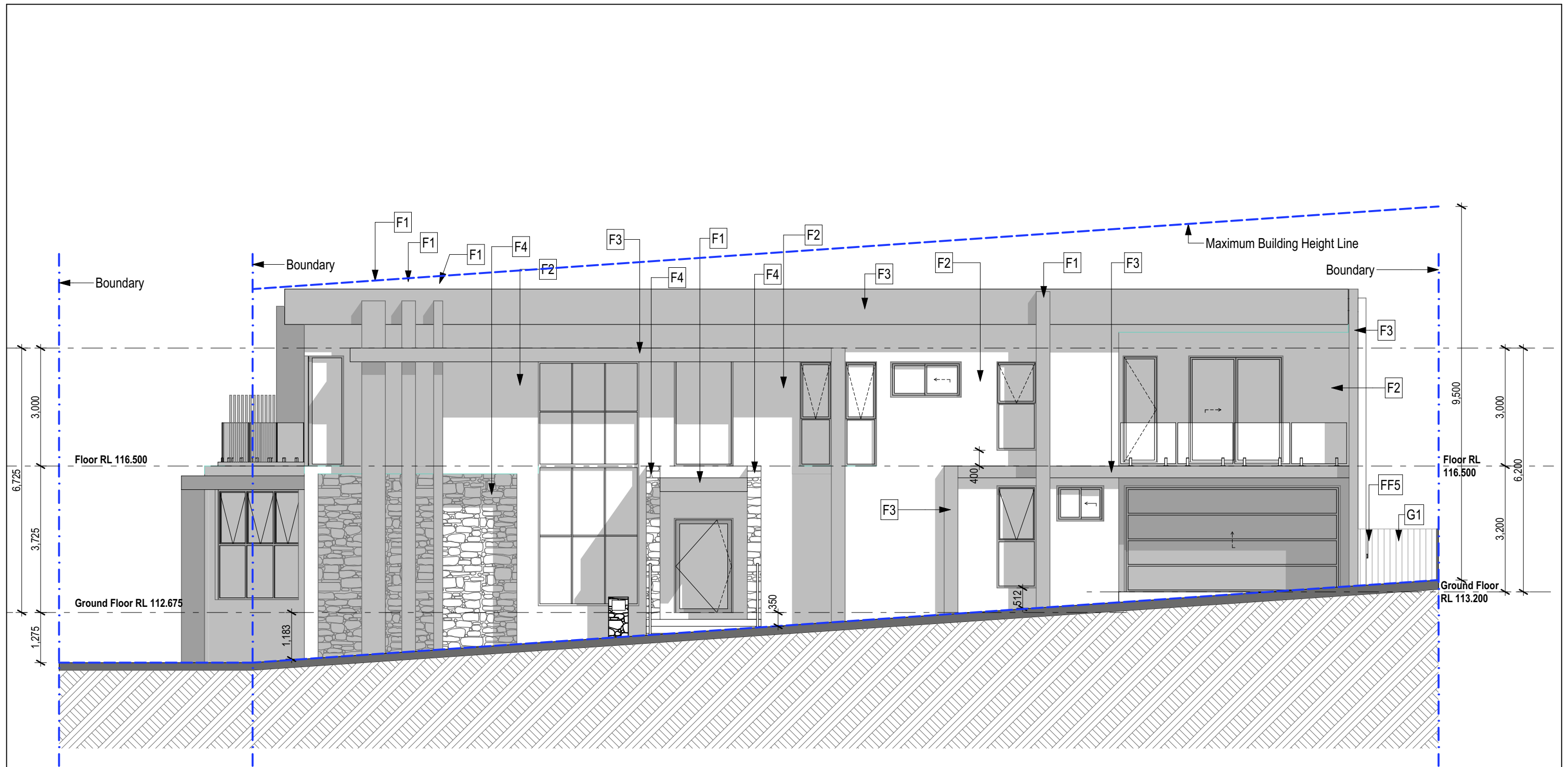




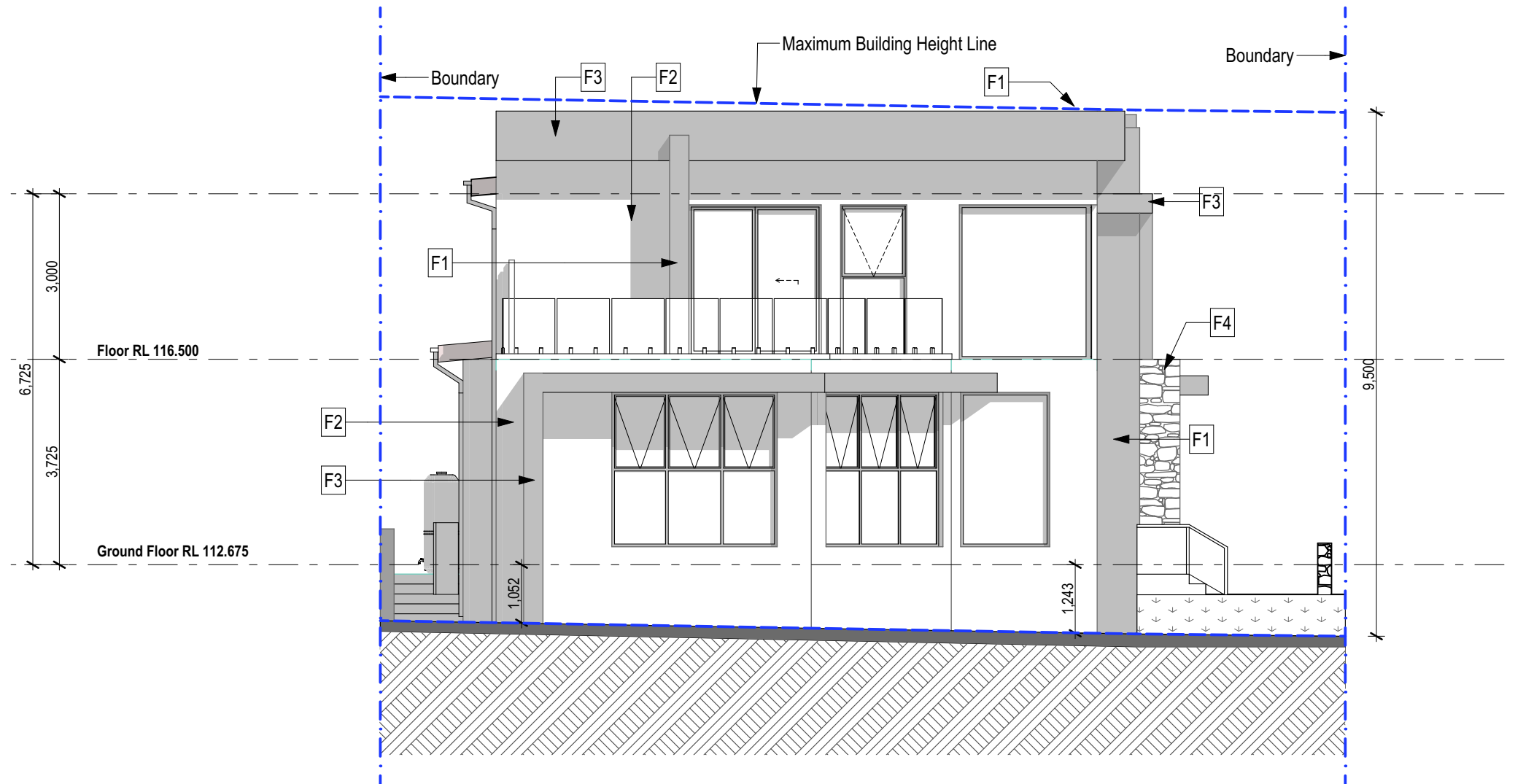
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REV.	DATE	DESCRIPTION															
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REV. DATE DESCRIPTION		DATE: 22.08.2020		ISSUE: B		JOB NO. A20200001		PROJECT: RESIDENTIAL DWELLING	
A 06.08.20 DRAFT CC		22.08.20 DRAFT CC		SCALE: 1:100 ON A3		PAGE: A204		ADDRESS: Lot 3352 - 21 SEVILLE CIRCUIT GLEDSDOWN HILLS	
								CLIENT: MADINA	





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			ISSUE. B			PROJECT. RESIDENTIAL DWELLING ADDRESS. Lot 3352 - 21 SEVILLE CIRCUIT GLEDSDOOD HILLS CLIENT. MADINA	
			JOB NO. A20200001				
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			PAGE. A300				
	B22.08.20DRAFT CC A06.08.20DRAFT CC REV. DATE DESCRIPTION.	NOTES. This drawing must not be copied, modified or used in any form without consent from the author. All dimensions are to be verified prior to commencement of work. Boundary dimensions and all levels are subject to survey. Use figure dimensions only, do not scale. All discrepancies are to be brought to the attention of the author.					



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CONSULTANTS

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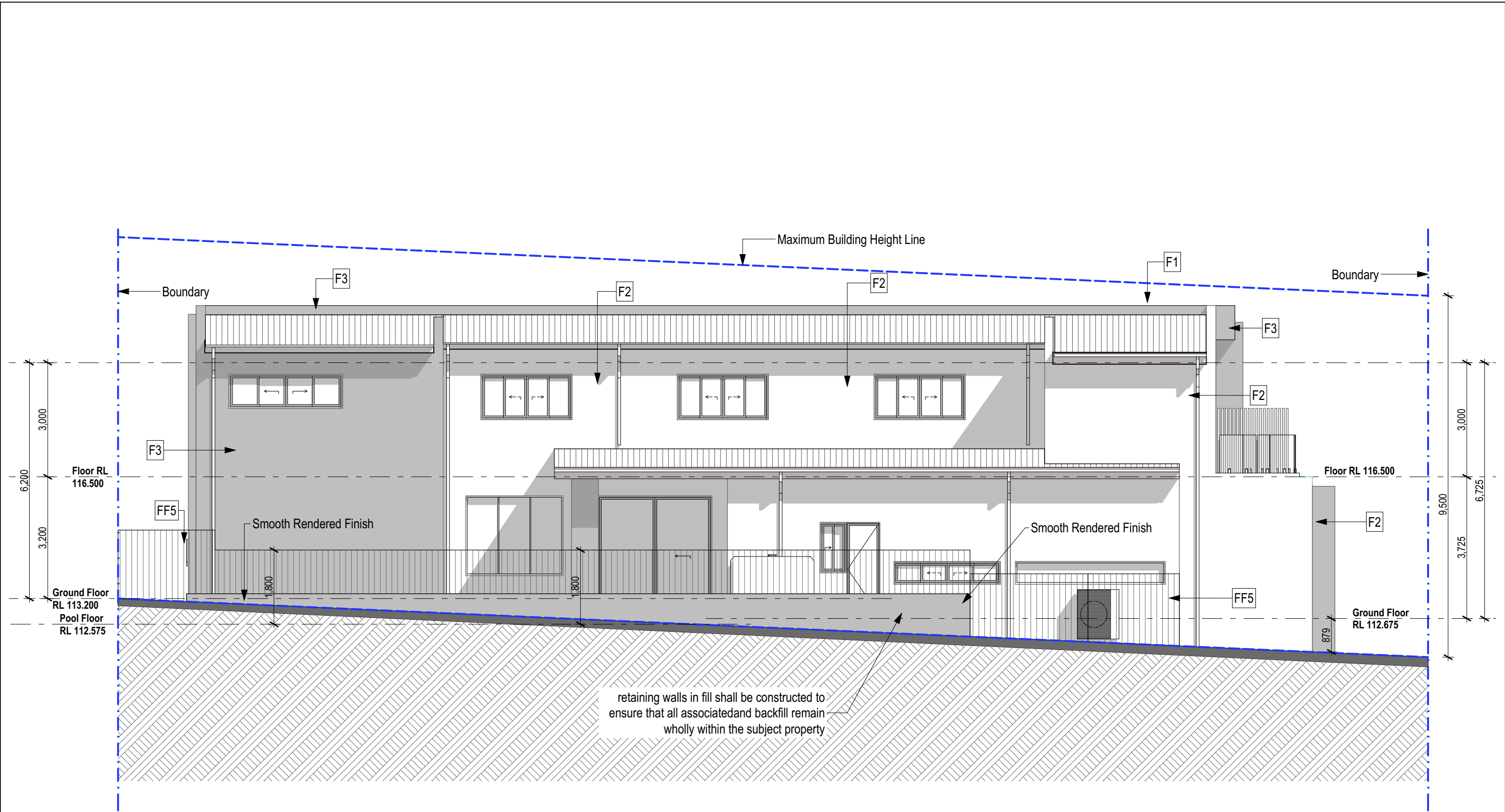
DATE. **22.08.2020**
ISSUE. **B**
JOB NO. **A20200001**
SCALE. **1:100 ON A3**
PAGE. **A301**

SHEET TITLE. South Elevation

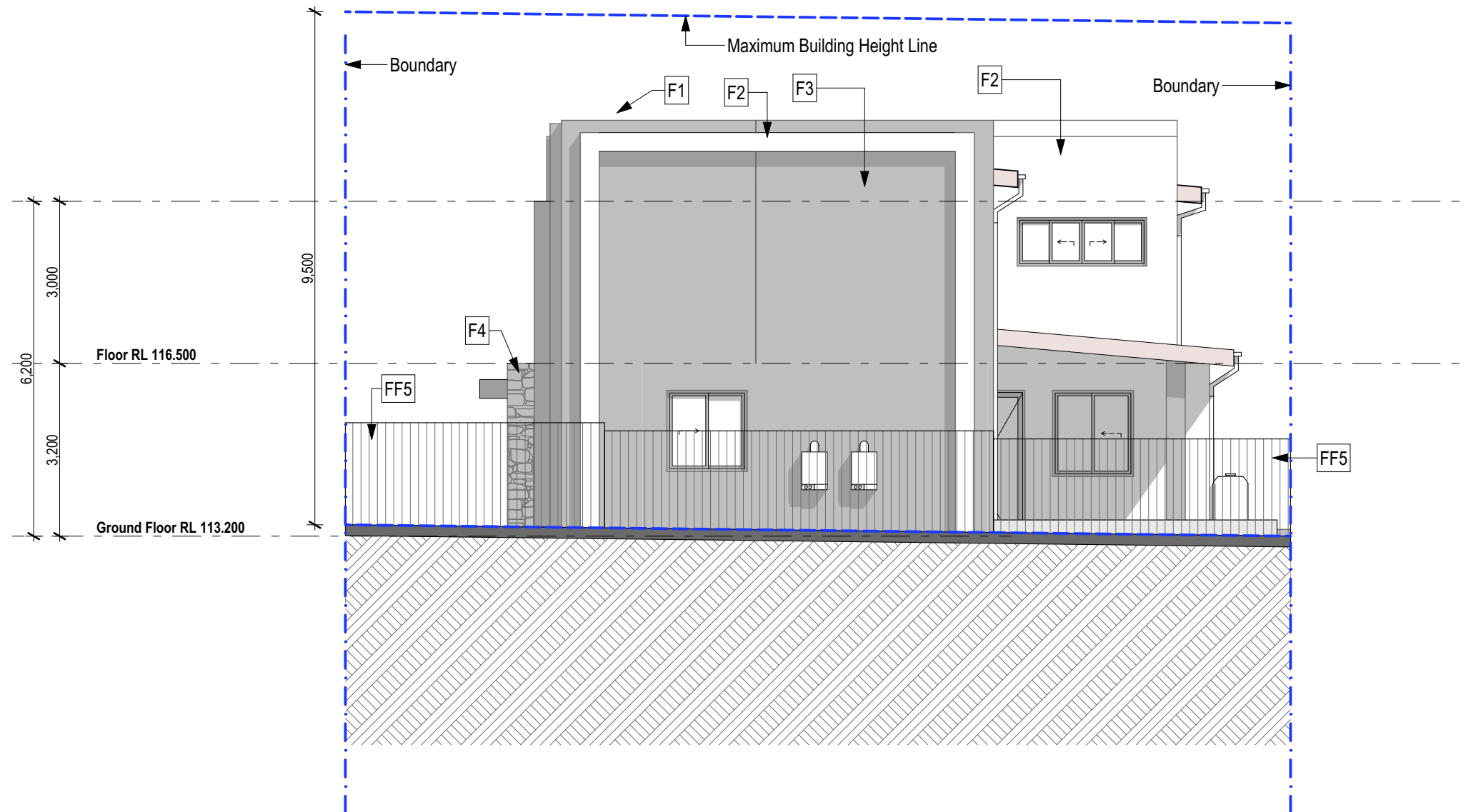
PROJECT. **RESIDENTIAL DWELLING**

ADDRESS. **Lot 3352 - 21 SEVILLE CIRCUIT GLEDSDOOD HILLS**

CLIENT. **MADINA**



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						ISSUE. B				
						JOB NO. A20200001				
						SCALE. 1:100 ON A3				
						PAGE. A302				



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DATE. **22.08.2020**

ISSUE. **B**

JOB NO. **A20200001**

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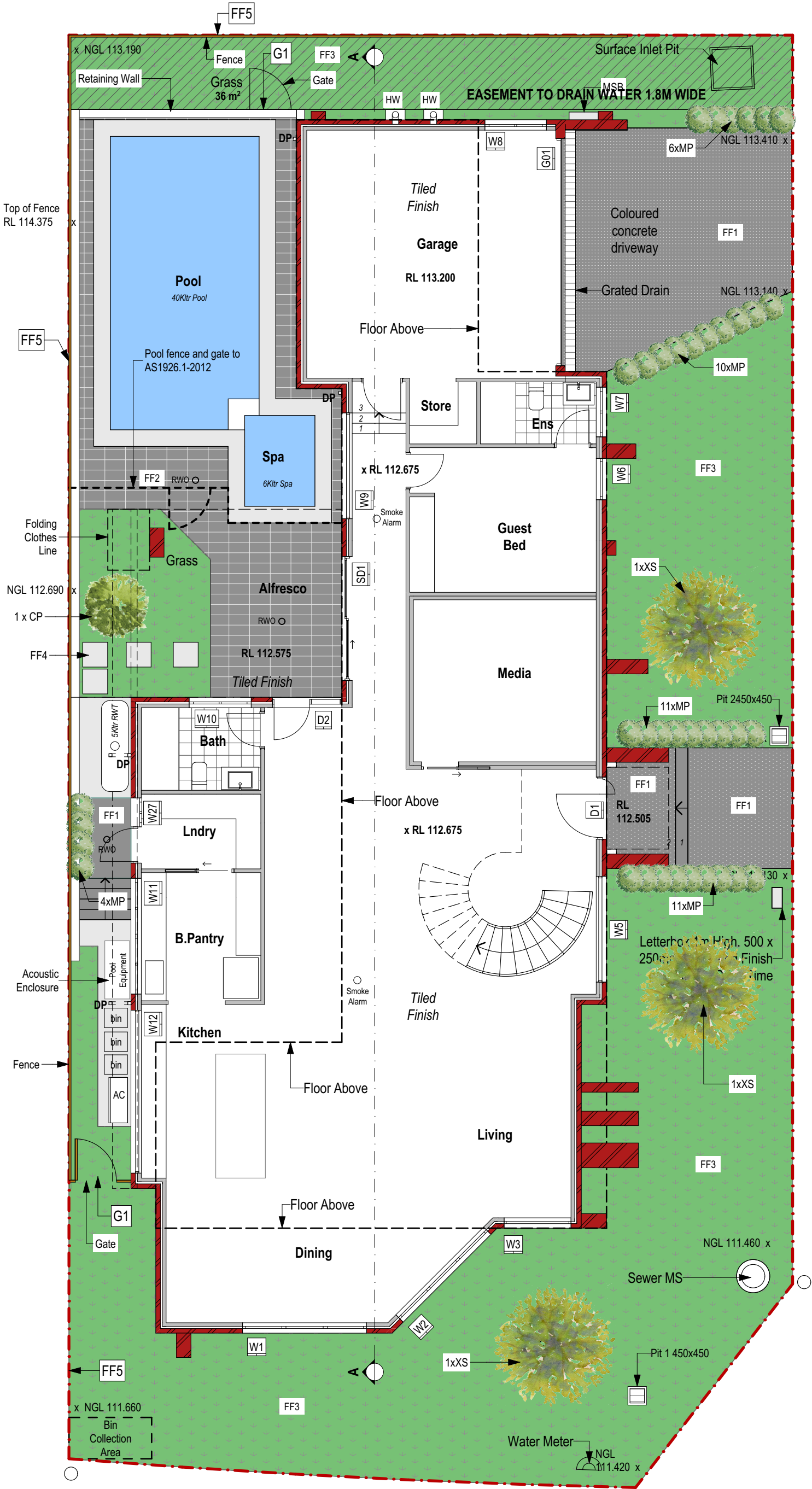
SHEET TITLE. North Elevation

PROJECT. **RESIDENTIAL DWELLING**

ADDRESS. **Lot 3352 - 21 SEVILLE CIRCUIT GLEDSDOOD HILLS**

CLIENT. **MADINA**

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REV.	DATE	DESCRIPTION									
A	06.08.20	DRAFT CC									
B	22.08.20	DRAFT CC									



BASIX[®]Certificate

Building Sustainability Index www.basix.nsw.gov.au

Single Dwelling

Certificate number: 10882665

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary
Date of issue: Tuesday, 19 May 2020
To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary		
Project name	21 Seville Circuit, Gledswood Hills	
Street address	21 Seville Circuit Gledswood Hills 2557	
Local Government Area	Camden Council	
Plan type and plan number	deposited 1239629	
Lot no.	3352	
Section no.	-	
Project type	separate dwelling house	
No. of bedrooms	5	
Project score		
Water	✔ 40	Target 40
Thermal Comfort	✔ Pass	Target Pass
Energy	✔ 51	Target 50

Certificate Prepared by	
Name / Company Name: AENEC - Trading As Wide Spectrum Pty Ltd	
ABN (if applicable): 612556377	

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_11_6 Certificate No.: 10882665 Tuesday, 19 May 2020 page 1/8

Description of project

Project address		Assessor details and thermal loads	
Project name	21 Seville Circuit, Gledswood Hills	Assessor number	HERA10042
Street address	21 Seville Circuit Gledswood Hills 2557	Certificate number	F8QVPM56JT
Local Government Area	Camden Council	Climate zone	28
Plan type and plan number	Deposited Plan 1239629	Area adjusted cooling load (MJ/m ² -year)	52
Lot no.	3352	Area adjusted heating load (MJ/m ² -year)	55
Section no.	-	Project score	
Project type		Water	✓ 40 Target 40
Project type	separate dwelling house	Thermal Comfort	✓ Pass Target Pass
No. of bedrooms	5	Energy	✓ 51 Target 50
Site details			
Site area (m ²)	602		
Roof area (m ²)	220		
Conditioned floor area (m ²)	309.0		
Unconditioned floor area (m ²)	17.7		
Total area of garden and lawn (m ²)	240		

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Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Landscape			
The applicant must plant indigenous or low water use species of vegetation throughout 120 square metres of the site.	✓	✓	
Fixtures			
The applicant must install showerheads with a minimum rating of 3 star (> 4.5 but <= 6 L/min) in all showers in the development.		✓	✓
The applicant must install a toilet flushing system with a minimum rating of 5 star in each toilet in the development.		✓	✓
The applicant must install taps with a minimum rating of 5 star in the kitchen in the development.		✓	
The applicant must install basin taps with a minimum rating of 5 star in each bathroom in the development.		✓	
Alternative water			
Rainwater tank			
The applicant must install a rainwater tank of at least 5000 litres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory authorities.	✓	✓	✓
The applicant must configure the rainwater tank to collect rain runoff from at least 200 square metres of the roof area of the development (excluding the area of the roof which drains to any stormwater tank or private dam).		✓	✓
The applicant must connect the rainwater tank to: the cold water tap that supplies each clothes washer in the development		✓	✓
at least one outdoor tap in the development (Note: NSW Health does not recommend that rainwater be used for human consumption in areas with potable water supply.)		✓	✓
Swimming pool			
The swimming pool must not have a volume greater than 40 kilolitres.	✓	✓	

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Water Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
The swimming pool must be outdoors.	✓	✓	
Outdoor Spa			
The spa must not have a volume greater than 6 kilolitres.	✓	✓	

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Thermal Comfort Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Simulation Method			
The applicant must attach the certificate referred to under "Assessor Details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for an occupation certificate for the proposed development.			
The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX certificate, including the Cooling and Heating loads shown on the front page of this certificate.			
The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Assessor Certificate requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor to certify that this is the case. The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.	✓	✓	✓
The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		✓	✓
The applicant must construct the floors and walls of the dwelling in accordance with the specifications listed in the table below.	✓	✓	✓
Floor and wall construction		Area	
floor - concrete slab on ground		All or part of floor area square metres	
floor - suspended floor above garage		All or part of floor area	

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_11_6 Certificate No.: 10882665 Tuesday, 19 May 2020 page 5/8

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
Hot water			
The applicant must install the following hot water system in the development, or a system with a higher energy rating: gas instantaneous with a performance of 5 stars.	✓	✓	✓
Cooling system			
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 living area: airconditioning ducting only; Energy rating: n/a		✓	✓
The applicant must install the following cooling system, or a system with a higher energy rating, in at least 1 bedroom: airconditioning ducting only; Energy rating: n/a		✓	✓
Heating system			
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 living area: airconditioning ducting only; Energy rating: n/a		✓	✓
The applicant must install the following heating system, or a system with a higher energy rating, in at least 1 bedroom: airconditioning ducting only; Energy rating: n/a		✓	✓
Ventilation			
The applicant must install the following exhaust systems in the development: At least 1 Bathroom: no mechanical ventilation (ie. natural); Operation control: n/a		✓	✓
Kitchen: individual fan, ducted to façade or roof; Operation control: manual switch on/off		✓	✓
Laundry: natural ventilation only, or no laundry; Operation control: n/a		✓	✓
Artificial lighting			
The applicant must ensure that the "primary type of artificial lighting" is fluorescent or light emitting diode (LED) lighting in each of the following rooms, and where the word "dedicated" appears, the fittings for those lights must only be capable of accepting fluorescent or light emitting diode (LED) lamps: - at least 5 of the bedrooms / study; dedicated - at least 1 of the living / dining rooms; dedicated - the kitchen; dedicated		✓	✓

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_11_6 Certificate No.: 10882665 Tuesday, 19 May 2020 page 6/8

Energy Commitments	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
all bathrooms/toilets; dedicated		✓	✓
the laundry; dedicated		✓	✓
all hallways; dedicated		✓	✓
Natural lighting			
The applicant must install a window and/or skylight in the kitchen of the dwelling for natural lighting.	✓	✓	✓
The applicant must install a window and/or skylight in 4 bathroom(s)/toilet(s) in the development for natural lighting.	✓	✓	✓
Swimming pool			
The development must not incorporate any heating system for the swimming pool.		✓	
The applicant must install a timer for the swimming pool pump in the development.		✓	
Outdoor spa			
The applicant must install the following heating system for the spa in the development (or alternatively must not install any heating system for the spa): solar (electric boosted)		✓	
The applicant must install a timer for the spa pump in the development.		✓	
Alternative energy			
The applicant must install a photovoltaic system with the capacity to generate at least 6.7 peak kilowatts of electricity as part of the development. The applicant must connect this system to the development's electrical system.	✓	✓	✓
Other			
The applicant must install a gas cooktop & electric oven in the kitchen of the dwelling.		✓	
The applicant must install a fixed outdoor clothes drying line as part of the development.		✓	

BASIX Planning, Industry & Environment www.basix.nsw.gov.au Version: 3.0 / DARWINIA_3_11_6 Certificate No.: 10882665 Tuesday, 19 May 2020 page 7/8

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B	22.08.20	DRAFT CC
A	06.08.20	DRAFT CC
REV.	DATE.	DESCRIPTION.

APPLICATION TYPE.
CONSTRUCTION CERTIFICATE

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DATE.	22.08.2020
ISSUE.	B
JOB NO.	A20200001
SCALE.	1:100 ON A3
PAGE.	A601

SHEET TITLE. Basix Certificate

PROJECT. **RESIDENTIAL DWELLING**

ADDRESS. **Lot 3352 - 21 SEVILLE CIRCUIT GLEDSDOOD HILLS**

CLIENT. **MADINA**

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **F8QVPMS6JT**

Date of Certificate: **19 May 2020**

★Star rating: **5.2**



Assessor details

Accreditation number: **HERA10042**
Name: **Dimitri Harakidas**
Organisation: **AENEC**
Email: **info@aenec.com.au**
Phone: **0416316204**
Declaration of interest: **No potential conflicts of interest to declare**
Software: **FirstRate5: 5.2.11 (3.13)**
AAO: **HERA**

Overview

Dwelling details

Address: **21 Seville Circuit**
Suburb: **Gledswood Hills**
State: **NSW** Postcode: **2557**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **3352/1239629** climate zone: **28**
Exposure: **suburban**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **SEE BELOW**
Roof: **SEE BELOW**
Floor: **SEE BELOW**
Insulation: Wall: **SEE BELOW**
Roof: **SEE BELOW**
Floor: **SEE BELOW**
Glazing: **SEE BELOW**

Net floor area (m²)

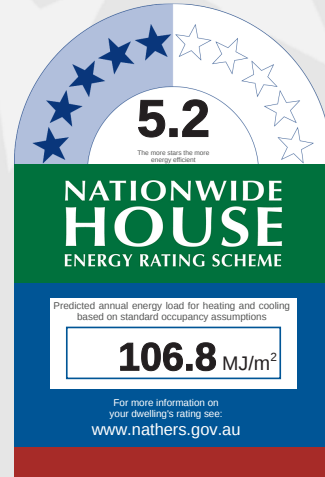
Conditioned: **309**
Unconditioned: **17.7**
Garage: **38.6**
TOTAL: **365.3**

Annual thermal performance loads (MJ/m²)

Heating: **54.7**
Cooling: **52.1**
TOTAL: **106.8**

Plan documents

Plan ref/date: **A20200001 / Rev. A 17.05.2020**
Prepared by: **A.A.**



Ceiling penetrations

(see following pages for details)

Sealed: **74**
Unsealed: **0**
TOTAL: **74**

Principal daylight type: **LED**

Window selection - default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.
Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



<https://www.nfers.com.au/QRCodeLanding?PublicId=F8QVPMS6JT>

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **F8QVPMS6JT**

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Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-004-04 A	Aluminium B DG Air Fill Low Solar Gain low-E -Clear	4.9	0.33
ATB-006-04 B	Al Thermally Broken B DG Argon Fill Low Solar Gain low-E -Clear	3	0.26
ALM-003-04 A	Aluminium A DG Air Fill Low Solar Gain low-E -Clear	4.9	0.33

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	W8	1488	1500	NW	GARAGE	No
ALM-002-01 A	W7	900	1200	NE	ES G	No
ALM-001-01 A	W6AW	1300	1000	NE	GUE	No
ALM-002-01 A	W10	1500	1597	NW	BATH	No
ALM-002-01 A	W27	1328	700	SW	LDRY	No
ALM-004-04 A	W11	600	2800	SW	PANTRY	No
ATB-006-04 B	W9	2100	2559	SW	CORRIDOR	No
ATB-006-04 B	SD1	3000	3125	SW	CORRIDOR	No
ALM-004-04 A	D2F	3125	760	NW	KLD	No
ALM-003-04 A	D2C	3125	920	NW	KLD	No
ALM-004-04 A	W12	600	3940	SW	KLD	No
ALM-004-04 A	W1F	1500	3000	SE	KLD	No
ALM-004-04 A	W2F	1500	2989	E	KLD	No
ALM-004-04 A	W3	3000	1617	SE	KLD	No
ALM-004-04 A	W5	3553	2559	NE	KLD	No
ALM-003-04 A	D1	2400	1500	NE	KLD	No
ALM-004-04 A	W22	900	3000	SW	B2	No
ALM-004-04 A	SD3	2700	2400	NE	B2	No
ALM-003-04 A	W21AW	1125	1000	NE	B3	No
ALM-002-01 A	W20	900	1800	NE	BATH - UP	No
ALM-003-04 A	W18AW	1325	800	NE	B4	No
ALM-003-04 A	W19AW	1325	800	NE	B4	No
ALM-004-04 A	W25	1200	2400	SW	LANDING	No
ALM-004-04 A	W16	2650	2559	NE	LANDING	No
ALM-004-04 A	W17	2800	1500	NE	LANDING	No
ALM-002-01 A	W26	900	2400	NW	ENS	No

* Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

Page 2 of 9

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **F8QVPMS6JT**

Date of Certificate: **19 May 2020**

★Star rating: **5.2**



Building Features

ALM-004-04 A	SD2	2700	2400	SE	B1	No
ALM-003-04 A	W13 AW	1400	1200	SE	B1	No
ALM-004-04 A	W14	2800	2350	SE	B1	No
ALM-004-04 A	W15	2800	850	NE	B1	No
ATB-006-04 B	W23	1200	2400	SW	CORRIDOR - UP	No
ATB-006-04 B	W24	1200	2400	SW	CORRIDOR - UP	No

Roof windows and skylight type and performance value

ID	Window type	U-value	SHGC
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Roof window and skylight schedule

ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name	Outdoor shade	Indoor shade/ diffuser
----	---------------------------	------------------------	-------------	-----------	---------------	------------------------

External wall type

Type	Insulation	Wall wrap
1 : FR5 - Double Brick		No
2 : AENEC - BVR2.50	Glass fibre batt: R2.5 (R2.5)	Yes
3 : FR5 - Brick Veneer	Glass fibre batt: R2.5 (R2.5)	Yes
4 : Various - BRICK VENEER-STONE CLAD	Glass fibre batt: R2.5 (R2.5)	Yes

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Double Brick	17.1	NE	GARAGE	Yes	Yes
2 : AENEC - BVR2.50	17.1	NW	GARAGE	No	No
2 : AENEC - BVR2.50	17.1	SW	GARAGE	Yes	Yes
2 : AENEC - BVR2.50	3.1	SE	GARAGE	Yes	No
2 : AENEC - BVR2.50	5.1	NE	ES G	Yes	Yes
2 : AENEC - BVR2.50	3.4	NW	ES G	Yes	Yes
2 : AENEC - BVR2.50	3.7	NE	GUE	Yes	Yes
3 : FR5 - Brick Veneer	7.3	NE	GUE	Yes	Yes
3 : FR5 - Brick Veneer	0.8	NE	GUE	No	No
3 : FR5 - Brick Veneer	7.9	NE	MEDIA	Yes	No
3 : FR5 - Brick Veneer	5.3	NE	MEDIA	Yes	No
3 : FR5 - Brick Veneer	6.8	SW	BATH	No	Yes

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PAGE. **A602**

SHEET TITLE. NatHers(1)

PROJECT. **RESIDENTIAL DWELLING**

ADDRESS. **Lot 3352 - 21 SEVILLE CIRCUIT GLEDSDOOD HILLS**

CLIENT. **MADINA**

Building Features

3 : FR5 - Brick Veneer	9.7	NW	BATH	Yes	Yes
3 : FR5 - Brick Veneer	6.1	SW	LDRY	No	Yes
3 : FR5 - Brick Veneer	10.5	SW	PANTRY	No	Yes
3 : FR5 - Brick Veneer	11.5	SW	CORRIDOR	Yes	No
3 : FR5 - Brick Veneer	14.3	SW	CORRIDOR	Yes	Yes
3 : FR5 - Brick Veneer	0.6	SSW	CORRIDOR	Yes	No
3 : FR5 - Brick Veneer	7.2	NW	KLD	Yes	Yes
3 : FR5 - Brick Veneer	14.2	SW	KLD	No	Yes
3 : FR5 - Brick Veneer	2	SE	KLD	Yes	No
3 : FR5 - Brick Veneer	11.8	SW	KLD	Yes	No
3 : FR5 - Brick Veneer	18.1	SE	KLD	Yes	No
3 : FR5 - Brick Veneer	12.1	E	KLD	Yes	No
3 : FR5 - Brick Veneer	6.4	SE	KLD	Yes	No
4 : Various - BRICK VENEER-STONE CLAD	4.2	NE	KLD	Yes	Yes
4 : Various - BRICK VENEER-STONE CLAD	6.5	NE	KLD	Yes	Yes
4 : Various - BRICK VENEER-STONE CLAD	7.6	NE	KLD	Yes	Yes
3 : FR5 - Brick Veneer	2.1	SE	KLD	Yes	Yes
3 : FR5 - Brick Veneer	11.2	NE	KLD	Yes	No
3 : FR5 - Brick Veneer	7.2	NE	KLD	Yes	Yes
3 : FR5 - Brick Veneer	14	SW	B2	Yes	Yes
3 : FR5 - Brick Veneer	14	NE	B2	Yes	Yes
3 : FR5 - Brick Veneer	11.7	NW	B2	No	No
3 : FR5 - Brick Veneer	5	NE	B3	Yes	Yes
3 : FR5 - Brick Veneer	5.5	NE	B3	Yes	Yes
3 : FR5 - Brick Veneer	9.3	NW	B3	Yes	Yes
3 : FR5 - Brick Veneer	6.3	NE	BATH - UP	Yes	Yes
3 : FR5 - Brick Veneer	7.2	NE	B4	Yes	Yes
3 : FR5 - Brick Veneer	3.3	NE	B4	Yes	Yes
3 : FR5 - Brick Veneer	21.3	SW	LANDING	Yes	Yes
3 : FR5 - Brick Veneer	19.7	NE	LANDING	Yes	Yes
3 : FR5 - Brick Veneer	12	SW	ENS	No	Yes
3 : FR5 - Brick Veneer	9	SE	ENS	No	Yes
3 : FR5 - Brick Veneer	9	NW	ENS	Yes	No
3 : FR5 - Brick Veneer	21.9	SE	B1	No	Yes
3 : FR5 - Brick Veneer	3.7	NE	B1	Yes	Yes

Building Features

3 : FR5 - Brick Veneer	5.9	NE	B1	Yes	Yes
3 : FR5 - Brick Veneer	3.1	NE	B1	Yes	Yes
3 : FR5 - Brick Veneer	4.2	NW	WIR	Yes	No
3 : FR5 - Brick Veneer	3.7	NE	CORRIDOR - UP	Yes	Yes
3 : FR5 - Brick Veneer	3.7	SW	CORRIDOR - UP	Yes	Yes
3 : FR5 - Brick Veneer	3.3	SE	CORRIDOR - UP	Yes	No
3 : FR5 - Brick Veneer	26.4	SW	CORRIDOR - UP	Yes	Yes
Internal wall type					
Type	Area (m ²)	Insulation			
1 : FR5 - Internal Plasterboard Stud Wall	8.9	Glass fibre batt: R1.5 (R1.5)			
2 : FR5 - Internal Plasterboard Stud Wall	226.6				
3 : AENEC - Double Stud Wall	46.6				

Floors					
Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
GARAGE	FR5 - 300mm waffle pod, 100mm concrete (R0.8)	27.7	Enclosed	R0.0	none
GARAGE	FR5 - 300mm waffle pod, 100mm concrete (R0.8)	10.7	Enclosed	R0.0	none
ES G	FR5 - 300mm waffle pod, 100mm concrete (R0.8)	4.2	Enclosed	R0.0	Tiles
GUE	FR5 - 300mm waffle pod, 100mm concrete (R0.8)	15.8	Enclosed	R0.0	Tiles
MEDIA	FR5 - 300mm waffle pod, 100mm concrete (R0.8)	17.3	Enclosed	R0.0	Tiles
BATH	FR5 - 300mm waffle pod, 100mm concrete (R0.8)	5.8	Enclosed	R0.0	Tiles
LDRY	FR5 - 300mm waffle pod, 100mm concrete (R0.8)	5.2	Enclosed	R0.0	Tiles
PANTRY	FR5 - 300mm waffle pod, 100mm concrete (R0.8)	9	Enclosed	R0.0	Tiles
CORRIDOR	FR5 - 300mm waffle pod, 100mm concrete (R0.8)	10.9	Enclosed	R0.0	Tiles
KLD	FR5 - 300mm waffle pod, 100mm concrete (R0.8)	85.5	Enclosed	R0.0	Tiles
KLD	FR5 - 300mm waffle pod, 100mm concrete (R0.8)	14.8	Enclosed	R0.0	Tiles
KLD	FR5 - 300mm waffle pod, 100mm	18.8	Enclosed	R0.0	Tiles

Building Features

	concrete (R0.8)				
B2	FR5 - Timber Lined	18.2	Enclosed	R0.0	Tiles
B3	FR5 - Timber Lined	15.8	Enclosed	R0.0	Tiles
BATH - UP	FR5 - Timber Lined	6.8	Enclosed	R0.0	Tiles
B4	FR5 - Timber Lined	15.1	Enclosed	R0.0	Tiles
B4	FR5 - Timber Lined	0.7	Enclosed	R0.0	Tiles
LANDING	FR5 - Timber Lined	38.7	Enclosed	R0.0	Tiles
LANDING	FR5 - Timber Lined	0.3	Elevated	R0.0	Tiles
ENS	FR5 - Timber Lined	12	Enclosed	R0.0	Tiles
B1	FR5 - Timber Lined	20.5	Enclosed	R0.0	Tiles
B1	FR5 - Timber Lined	1.6	Elevated	R0.0	Tiles
WIR	FR5 - Timber Lined	7.5	Enclosed	R0.0	Tiles
CORRIDOR - UP	FR5 - Timber Lined	19.4	Enclosed	R0.0	Tiles

Ceiling type			
Location	Material	Added insulation	Roof space above
GARAGE	FR5 - Timber Lined	R0.0	No
GARAGE	FR5 - Timber Lined	R0.0	No
GARAGE	FR5 - Timber Lined	R0.0	No
GARAGE	Plasterboard	R4.0	No
ES G	FR5 - Timber Lined	R0.0	No
GUE	FR5 - Timber Lined	R0.0	No
GUE	FR5 - Timber Lined	R0.0	No
GUE	FR5 - Timber Lined	R0.0	No
MEDIA	FR5 - Timber Lined	R0.0	No
MEDIA	FR5 - Timber Lined	R0.0	No
MEDIA	FR5 - Timber Lined	R0.0	No
MEDIA	FR5 - Timber Lined	R0.0	No
BATH	Plasterboard	R4.0	No
LDRY	Plasterboard	R4.0	No
PANTRY	Plasterboard	R4.0	No
CORRIDOR	FR5 - Timber Lined	R0.0	No
KLD	FR5 - Timber Lined	R0.0	No
KLD	FR5 - Timber Lined	R0.0	No
KLD	FR5 - Timber Lined	R0.0	No

Element ID	W1	W2	W3	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14
Quantity	1	1	1	1	1	1	1	1	1	1	1	1	1
W x H Size	3,000×2,800	3,000×2,800	1,617×2,800	2,559×3,553	1,000×2,600	1,200×900	1,488×1,500	2,559×2,100	1,500×1,597	2,800×600	3,940×600	1,200×2,800	2,350×2,800
2D Symbol													
View from Side Opposite to Opening Side													

Element ID	W15	W16	W17	W18	W19	W20	W21	W22	W23	W24	W25	W26
Quantity	1	1	1	1	1	1	1	1	1	1	1	1
W x H Size	850×2,800	2,559×2,650	1,500×2,800	800×2,650	800×2,650	1,800×900	1,000×2,250	3,000×900	2,400×1,200	2,400×1,200	2,400×1,200	2,400×900
2D Symbol												
View from Side Opposite to Opening Side												

Element ID	W27
Quantity	1
W x H Size	700×1,328
2D Symbol	
View from Side Opposite to Opening Side	

Element ID	D1	D2	DOO - 006	G01	SD1	SD2	SD3
Quantity	1	1	1	1	1	1	1
W x H Size	1,500×2,400	1,680×3,125	820×2,072	5,500×2,700	3,000×3,125	2,400×2,700	2,400×2,700
2D Symbol							
View from Side Opposite to Opening Side							