

Approved Building Consent Documents

Please Note: A copy of the stamped approved documents must be available on site for all inspections.

Inspection booking timeframes

Call received	before 3pm inspection will be done	after 3pm inspection will be done
Monday	Wednesday	Thursday
Tuesday	Thursday	Friday
Wednesday	Friday	Monday
Thursday	Monday	Tuesday
Friday	Tuesday	Wednesday

Building inspections and enquiries phone: 03 347 2839

Please ensure all work for inspection is ready the day before. Incomplete work requiring re-inspection will incur an additional inspection fee.



RECORD OF TITLE
UNDER LAND TRANSFER ACT 2017
FREEHOLD
Search Copy




R.W. Muir
Registrar-General
of Land

SDC - Approved Building Consent Document - BC221276 - Pg 2 of 58 - 20/06/2022 - sandea

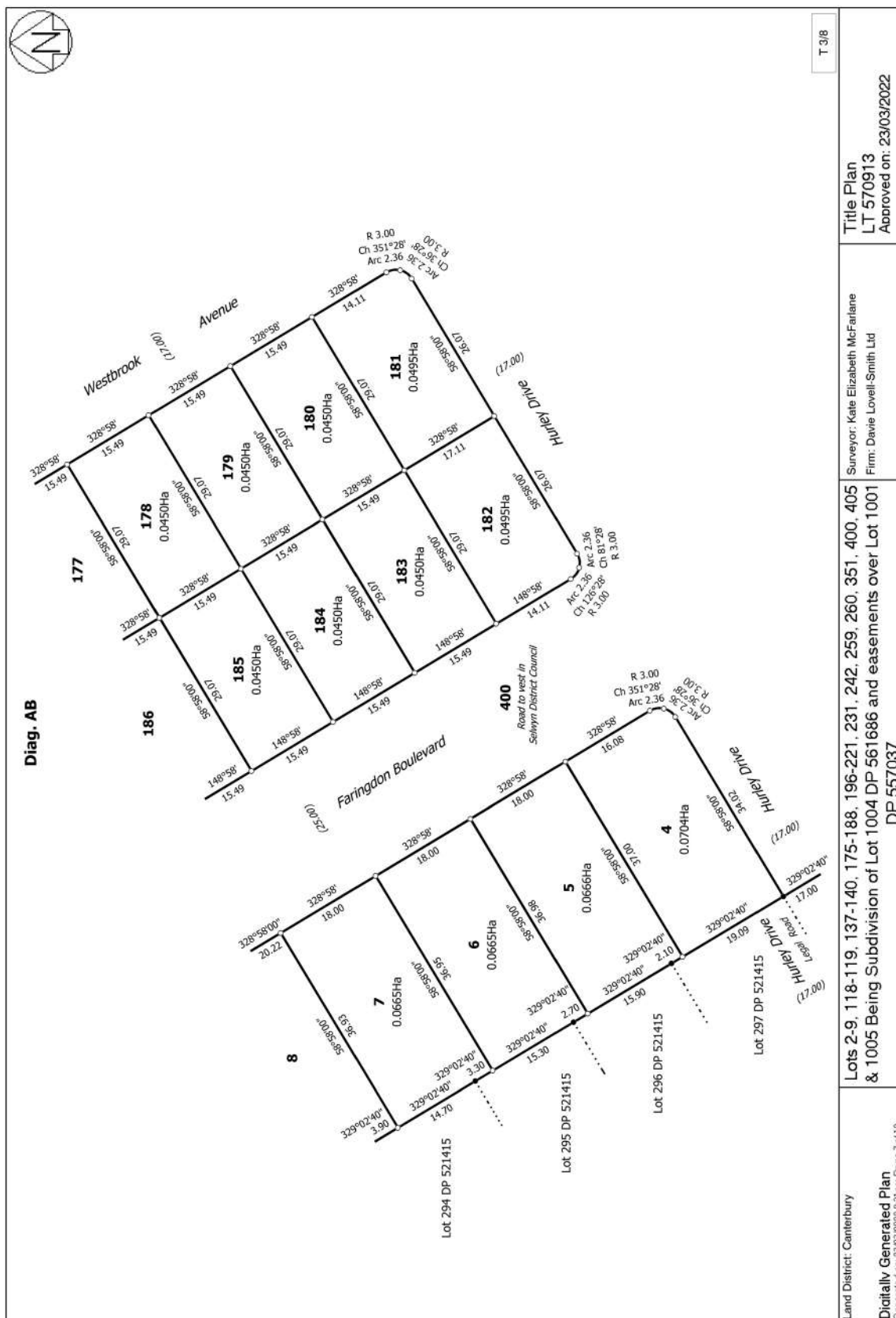
Identifier **1035866**
Land Registration District **Canterbury**
Date Issued 11 March 2022

Prior References
994423

Estate Fee Simple
Area 450 square metres more or less
Legal Description Lot 180 Deposited Plan 570913

Registered Owners
Aaron Jack Bolton and Emily Jane Skilling

Interests
Subject to Section 8 Mining Act 1971 and Section 168A Coal Mines Act 1979
12343672.3 Consent Notice pursuant to Section 221 Resource Management Act 1991 - 11.3.2022 at 3:03 pm
12343672.6 Consent Notice pursuant to Section 221 Resource Management Act 1991 - 11.3.2022 at 3:03 pm
Land Covenant in Covenant Instrument 12343672.11 - 11.3.2022 at 3:03 pm (limited as to duration)
12423869.3 Mortgage to ASB Bank Limited - 20.4.2022 at 3:19 pm



Record of Survey - LT 570913

SDC - Approved Building Consent Document - BC221276 - Pg 4 of 58 - 20/06/2022 - sandea

Survey Number	LT 570913
Surveyor Reference	H20242 West Village Stage 2
Surveyor	Kate Elizabeth McFarlane
Survey Firm	Davie Lovell-Smith Ltd
Surveyor Declaration	I Kate Elizabeth McFarlane, being a licensed cadastral surveyor, certify that-- (a) this dataset provided by me and its related survey are accurate, correct and in accordance with the Cadastral Survey Act 2002 and Cadastral Survey Rules 2021; and (b) the survey was undertaken by me or under my personal direction. Declared on 23 Mar 2022 12:41 PM

Survey Details

Dataset Description	Lots 2-9, 118-119, 137-140, 175-188, 196-221, 231, 242, 259, 260, 351, 400, 405 & 1005 Being Subdivision of Lot 1004 DP 561686 and easements over Lot 1001 DP 557037		
Purpose	LT Subdivision		
Status	Approved as to Survey	Type	Survey
Land District	Canterbury	Survey Class	Class A
Meridional Circuit	Mount Pleasant 2000	Vertical Datum	None

Survey Dates

Surveyed Date	15/12/2021	Certified Date	23/03/2022
Submitted Date	23/03/2022 12:41:47	Survey Approval Date	23/03/2022
Deposit Date			

Referenced Surveys

Survey Number	Land District	Bearing Correction
DP 512548	Canterbury	0°00'00"
DP 515304	Canterbury	0°00'00"
DP 521415	Canterbury	0°00'00"
DP 557037	Canterbury	0°00'00"
DP 561686	Canterbury	0°00'00"

Territorial Authorities

Selwyn District

Comprised In

RT 994423
RT 977881

Created Parcels

Parcels	Parcel Intent	Area	RT Reference
Lot 2 Deposited Plan 570913	Fee Simple Title	0.0742 Ha	1035847
Lot 3 Deposited Plan 570913	Fee Simple Title	0.0854 Ha	1035848
Lot 4 Deposited Plan 570913	Fee Simple Title	0.0704 Ha	1035849
Lot 5 Deposited Plan 570913	Fee Simple Title	0.0666 Ha	1035850
Lot 6 Deposited Plan 570913	Fee Simple Title	0.0665 Ha	1035851



www.selwyn.govt.nz

IN THE MATTER

of the Resource Management
Act 1991

AND

IN THE MATTER

of Resource Consent 215539 & 215540
and Deposit Plan 570913

CONSENT NOTICE PURSUANT TO S. 221 RESOURCE MANAGEMENT ACT 1991

To: The District Land Registrar
Canterbury Land Registration District

TAKE NOTICE that the land hereinafter described is subject to conditions in relation to a
subdivision

*"That these lots are small-lot medium density lots. The Living Z rules in the Operative
District Plan for small-lot medium density development shall apply to any future
development on these lots."*

AND THAT you are hereby requested to register the same pursuant to Section 221 of the
Resource Management Act 1991.

DESCRIPTION OF LAND

All those pieces of land being Lots 118 – 119, 139 – 140, 175 – 188, 196 – 203, 210, 231 and 242
DP 570913 as held in Record of Titles 1035855 – 1035856, 1035859 – 1035860, 1035861 –
1035874, 1035875 – 1035882, 1035889, 1035901 and 1035902.

DATED this 19th day of January 2022

SIGNED for and on behalf of Selwyn District Council

A handwritten signature in black ink, appearing to read 'R. J. [unclear]'. Below the signature is a horizontal line.

Authorised Officer



www.selwyn.govt.nz

IN THE MATTER

of the Resource Management
Act 1991

AND

IN THE MATTER

of Resource Consent 215539 & 215540
and Deposit Plan 570913

CONSENT NOTICE PURSUANT TO S. 221 RESOURCE MANAGEMENT ACT 1991

To: The District Land Registrar
Canterbury Land Registration District

TAKE NOTICE that the land hereinafter described is subject to conditions in relation to a
subdivision

*"That unless a resource consent has been granted otherwise, any fence or freestanding
wall which is not shown on the Approved Landscape and Fencing Plans or subject to
condition 86 of RC215539, shall comply with the requirements of the District Plan at the
time the fence or freestanding wall is constructed. For further information please refer to
the relevant rule in the District Plan or contact the duty planner at the Selwyn District
Council."*

AND THAT you are hereby requested to register the same pursuant to Section 221 of the
Resource Management Act 1991.

DESCRIPTION OF LAND

All those pieces of land being Lots 2 – 9, 118 – 119, 137 – 140, 175 – 188, 196 – 221, 231, 242
and 259 – 260 DP 570913 as held in Record of Titles 1035847 – 1035904.

DATED this 19th day of January 2022

SIGNED for and on behalf of Selwyn District Council

A handwritten signature in black ink, appearing to read 'R. Hargrave'.

Authorised Officer

www.selwyn.govt.nz
Selwyn District Council, 2 Norman Kirk Drive Rolleston / PO BOX 90, Rolleston 7643
Tel: 03 347 2800 Fax: 03 347 2700 Email: admin@selwyn.govt.nz

Form 2A

Memorandum from licensed building practitioner: Certificate of design work Section 30C or 45, Building Act 2004

Please fill in the form as fully and correctly as possible.

If there is insufficient room on the form for requested details, please continue on another sheet and attach the additional sheet(s) to this form.

THE BUILDING

Street address: Lot 180 DP 570913 28 Westbrook Avenue

Suburb: West Village, Faringdon, Rolleston

Town/City: Canterbury

Postcode: 7615

THE OWNER(S)

Name(s): Aaron Jack Bolton and Emily Jane Skillig

Mailing address: 1620 Springs Road

Suburb: RD 4

PO Box/Private Bag:

Town/City: Christchurch

Postcode: 7674

Phone number: 027 666 4478 Email address: deebolton4@msn.com

BASIS FOR PROVIDING THIS MEMORANDUM

I am providing this memorandum in my role as the: Please tick the option that applies ✓

- ☐ **sole** designer of all of the RBW design outlined in this memorandum – I carried out all of the RBW design work myself – no other person will be providing any additional memoranda for the project
- ☐ **lead** designer who carried out some of the RBW design myself but also supervised other designers – this memorandum covers their RBW design work as well as mine, and **no other** person will be providing any additional memoranda for the project
- ☒ **lead** designer for all but specific elements of RBW – this memorandum only covers the RBW design work that I carried out or supervised and the **other** designers will provide their own memorandum relating to their specific RBW design
- ☐ **specialist** designer who carried out specific elements of RBW design work as outlined in this memorandum – other designers will be providing a memorandum covering the remaining RBW design work

IDENTIFICATION OF DESIGN WORK THAT IS RESTRICTED BUILDING WORK (RBW)

I Craig Wearne carried out / supervised the following design work that is restricted building work

PRIMARY STRUCTURE: B1

Design work that is RBW	Description of RBW	Carried out or supervised	Reference to plans and specifications
Tick ✓ if included. Cross ✗ if excluded	If appropriate, provide details of the RBW	Tick ✓ whether you carried out this design work or supervised someone else carrying out this design work	If appropriate, specify references
All RBW design work relating to B1 ☐ ☒		☐ Carried out ☒ Supervised	
Foundations and subfloor framing ☐ ☒		☐ Carried out ☒ Supervised	

Design work that is RBW	Description of RBW	Carried out or supervised	Reference to plans and specifications
Tick ☒ if included. Cross ☒ if excluded	If appropriate, provide details of the RBW	Tick ☒ whether you carried out this design work or supervised someone else carrying out this design work	If appropriate, specify references
Walls ☐ ☒		☐ Carried out ☒ Supervised	
Roof ☐ ☒		☐ Carried out ☒ Supervised	
Columns and beams ☐ ☒		☐ Carried out ☒ Supervised	
Bracing ☒ ☐	Roof Bracing	☐ Carried out ☒ Supervised	Refer to Roof Truss Fixing and Bracing
Other ☐ ☒		☐ Carried out ☒ Supervised	

Design work that is RBW	Description of RBW	Carried out or supervised	Reference to plans and specifications
Tick ☒ if included. Cross ☒ if excluded	If appropriate, provide details of the RBW	Tick ☒ whether you carried out this design work or supervised someone else carrying out this design work	If appropriate, specify references
EXTERNAL MOISTURE MANAGEMENT SYSTEMS: E2			
All RBW design work relating to E2 ☐ ☒		☐ Carried out ☒ Supervised	
Damp proofing ☒ ☐	Damp proof membrane to underside of floor slab	☐ Carried out ☒ Supervised	Refer to Foundation Details page
Roof cladding or roof cladding system ☒ ☐	Pressed Metal Tile Roofing on underlay	☐ Carried out ☒ Supervised	Refer to Elevations, Cross Section and Roof Cladding Details pages
Ventilation system (for example, subfloor or cavity) ☒ ☐	Cavity to Wall Cladding	☐ Carried out ☒ Supervised	Refer to Cross Section and Cladding Details pages
Wall cladding or wall cladding system ☒ ☐	Brick Veneer Weatherboard	☐ Carried out ☒ Supervised	Refer to Cross Section and Wall Cladding Details pages
Waterproofing ☐ ☒	N/A	☐ Carried out ☒ Supervised	
Other ☐ ☒	N/A	☐ Carried out ☒ Supervised	

Design work that is RBW	Description of RBW	Carried out or supervised	Reference to plans and specifications
Tick ☒ if included. Cross ☒ if excluded	If appropriate, provide details of the RBW	Tick ☒ whether you carried out this design work or supervised someone else carrying out this design work	If appropriate, specify references
FIRE SAFETY SYSTEMS: C1 - C6			
Emergency warning systems ☒ Evacuation and fire service operation systems ☒ Suppression or control systems ☐ Other ☒	Domestic Smoke Detectors Domestic Escape Path <25m N/A	☐ Carried Out ☒ Supervised ☐ Carried Out ☒ Supervised ☐ Carried Out ☒ Supervised	Refer Electrical Plan Refer Electrical Plan
Note: The design of fire safety systems is only restricted building work when it involves small-to-medium apartment buildings as defined by the Building (Definition of Restricted Building Work) Order 2011.			

WAIVERS AND MODIFICATIONS

Waivers or modifications of the Building Code are required. ☐ Yes ☒ No

If Yes, provide details of the waivers or modifications below:

Clause	Waiver/modification required
List relevant clause numbers of building code	Specify nature of waiver or modification of building code required

ISSUED BY

Name and contact details of the licensed building practitioner who is licensed to carry out or supervise design work that is restricted building work.

Name: **Craig Wearne**

LBP or Registration number: **BP101178**

The practitioner is a: ☒ Design LBP ☐ Registered architect ☐ Chartered professional engineer

Design Entity or Company (optional): **RCDC Limited**

Mailing address (if different from below): **P.O Box 4411**

Street address/Registered office: **63 Hewletts Road**

Suburb: **Mount Maunganui**

Town/City: **Tauranga**

PO Box/Private Bag: **4411**

Postcode: **3149**

Phone number: **07 574 2340**

Mobile:

After hours:

Fax: **07 574 9537**

Email address: **tauranga@zog.co.nz**

Website: **N/A**

DECLARATION

I **Craig Wearne** LBP, state that I have applied the skill and care reasonably required of a competent design professional in carrying out or supervising the Restricted Building Work (RBW) described in this form, and that based on this, I also state that the RBW:

- Complies with the building code, or
- ~~Complies with the building code subject to any waiver or modification of the building code recorded on this form~~

Signature: 

Date: **13/05/2022**

Memorandum from licensed building practitioner: Certificate of design work

Section 45 and section 30C, Building Act 2004

Please fill in the form as fully and correctly as possible.

If there is insufficient room on the form for requested details, please continue on another sheet and attach the additional sheet(s) to this form.

THE BUILDING

Street address: Lot 180, DP 570913, Westbrook Avenue, West Village, Faringdon

Suburb:

Town/City: Rolleston

Postcode:

THE OWNER(S)

Name(s): Bolton

Mailing address:

Suburb:

PO Box/Private Bag:

Town/City:

Postcode:

Phone number:

Email address:

BASIS FOR PROVIDING THIS MEMORANDUM

I am providing this memorandum in my role as the: Please tick the option that applies ✓

- ☐ **sole** designer of all of the RBW design outlined in this memorandum – I carried out all of the RBW design work myself – no other person will be providing any additional memoranda for the project
- ☐ **lead** designer who carried out some of the RBW design myself but also supervised other designers – this memorandum covers their RBW design work as well as mine, and **no other** person will be providing any additional memoranda for the project
- ☐ **lead** designer for all but specific elements of RBW – this memorandum only covers the RBW design work that I carried out or supervised and the **other** designers will provide their own memorandum relating to their specific RBW design
- ☒ **specialist** designer who carried out specific elements of RBW design work as outlined in this memorandum – other designers will be providing a memorandum covering the remaining RBW design work

IDENTIFICATION OF DESIGN WORK THAT IS RESTRICTED BUILDING WORK (RBW)

I Franswa Jooste ~~carried out~~ / supervised the following design work that is restricted building work

PRIMARY STRUCTURE: B1

Design work that is RBW	Description of RBW	Carried out or supervised	Reference to plans and specifications
Tick ✓ if included. Cross ✗ if excluded	If appropriate, provide details of the RBW	Tick ✓ whether you carried out this design work or supervised someone else carrying out this design work	If appropriate, specify references
All RBW design work relating to B1 ☐ ☒		☐ Carried out ☒ Supervised	
Foundations and subfloor framing ☒ ☐	Foundations & Slab	☐ Carried out ☒ Supervised	Refer to DINEX job 97567 (14-16 of 40)

Design work that is RBW	Description of RBW	Carried out or supervised	Reference to plans and specifications
Tick ☒ if included. Cross ☒ if excluded	If appropriate, provide details of the RBW	Tick ☒ whether you carried out this design work or supervised someone else carrying out this design work	If appropriate, specify references
Walls ☒ ☐	Light steel framing to walls	☐ Carried out ☒ Supervised	Refer to DINEX job 97567 (11-13 & 18 of 40); Framing (D01 - D03 of D12)
Roof ☒ ☐	Light steel frame trusses with purlins / battens	☐ Carried out ☒ Supervised	Refer to DINEX job 97567 (11-13 of 40); Framing (D04 of D12)
Columns and beams ☒ ☐	Light steel frame lintels and beams	☐ Carried out ☒ Supervised	Refer to DINEX job 97567 (11-13 & 18 of 40); Framing (D01 - D03 of D12)
Bracing ☒ ☐	Light steel frame bracing and sheet bracing where shown	☐ Carried out ☒ Supervised	Refer to DINEX job 97567 (18 of 40)
Other ☐ ☒		☐ Carried out ☒ Supervised	

Design work that is RBW	Description of RBW	Carried out or supervised	Reference to plans and specifications
Tick ☒ if included. Cross ☒ if excluded	If appropriate, provide details of the RBW	Tick ☒ whether you carried out this design work or supervised someone else carrying out this design work	If appropriate, specify references
EXTERNAL MOISTURE MANAGEMENT SYSTEMS: E2			
All RBW design work relating to E2 ☐ ☒		☐ Carried out ☐ Supervised	
Damp proofing ☐ ☒		☐ Carried out ☐ Supervised	
Roof cladding or roof cladding system ☐ ☒		☐ Carried out ☒ Supervised	
Ventilation system (for example, subfloor or cavity) ☐ ☒		☐ Carried out ☐ Supervised	
Wall cladding or wall cladding system ☐ ☒		☐ Carried out ☐ Supervised	
Waterproofing ☐ ☒		☐ Carried out ☐ Supervised	
Other ☐ ☒		☐ Carried out ☒ Supervised	

Design work that is RBW	Description of RBW	Carried out or supervised	Reference to plans and specifications
Tick ☒ if included. Cross ☒ if excluded	If appropriate, provide details of the RBW	Tick ☒ whether you carried out this design work or supervised someone else carrying out this design work	If appropriate, specify references
FIRE SAFETY SYSTEMS: C1 - C6			
Emergency warning systems Evacuation and fire service operation systems ☐ ☒		☐ Carried out ☒ Supervised	
Suppression or control systems Other			
Note: The design of fire safety systems is only restricted building work when it involves small-to-medium apartment buildings as defined by the Building (Definition of Restricted Building Work) Order 2011.			

WAIVERS AND MODIFICATIONS

Waivers or modifications of the Building Code are required. ☐ Yes ☒ No

If Yes, provide details of the waivers or modifications below:

Clause	Waiver/modification required
List relevant clause numbers of building code	Specify nature of waiver or modification of building code required

ISSUED BY

Name and contact details of the licensed building practitioner who is licensed to carry out or supervise design work that is restricted building work.

Name: **Franswa Jooste**

LBP or Registration number: **CPEng 232746**

The practitioner is a: ☐ Design LBP ☐ Registered architect ☒ Chartered professional engineer

Design Entity or Company (optional): **Redco NZ Limited**

Mailing address (if different from below):

Street address/Registered office: **470 Otumoetai Road**

Suburb: **Otumoetai**

Town/City: **Tauranga**

PO Box/Private Bag:

Postcode: **3110**

Phone number: **07 571 7070**

Mobile:

After hours:

Fax: **07 571 7080**

Email address: **red@redco.co.nz**

Website: **www.redco.co.nz**

DECLARATION

I, Franswa Jooste LBP, state that I have applied the skill and care reasonably required of a competent design professional in carrying out or supervising the Restricted Building Work (RBW) described in this form, and that based on this, I also state that the RBW:

- Complies with the building code, or
- ~~Complies with the building code subject to any waiver or modification of the building code recorded on this form~~

Signature: _____



Date: 17/05/2022

Redco Job: 22059

RCDC Ltd Job: 97567 - Bolton Residence

CONSTRUCTION MONITORING SCHEDULE

Client: **RCDC Limited**

16 May '22

Project: **97567 - Bolton Residence**

Project No. **22059**

Construction Monitoring Schedule

We recommend Building Consent Authority to carry out construction monitoring on the following items:

Light Steel Framing and Connections

We recommend a competent professional to carry out construction monitoring (CM2 Level) on the following items and issue a PS4:

Foundations & Slab

Note:

Number of inspections depend on the builders construction sequence.

RE: BUILDING INSPECTION SCHEDULE

Council to undertake (where necessary):

1. Siting
2. Wastepipes
3. Framing / Pre wrap
4. Post wrap / Cavity
5. Half High Brick (only if brick exterior)
6. Preline
7. Internal Membrane
8. Drainage
9. Final

Engineer to Undertake: (as per compliance schedule)

1. Site Scrape Inspection
2. Ribraft Foundations and Slab

Kind regards,

A handwritten signature in black ink, appearing to be "CW", followed by a long horizontal line.

Craig Wearne

Director

COVERAGE

Site area	= 450m ²
Footprint (over cladding)	= 164.1m ²
Footprint (incl. roof over 600)	= 170.9m ²
	= 36.5%
	= 38%



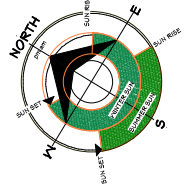
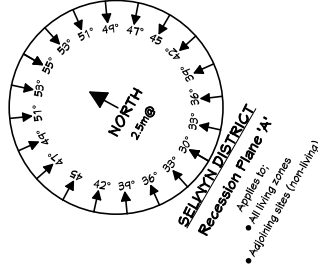
Design & Build - © GOLDEN HOMES HOLDINGS LTD

NOTES:

KEY

FFL	= Finished floor level
FGL	= Finished ground level
FPL	= Finished platform level
EGL	= Existing ground level
D.C.P	= Daulight control point
(f)	= Dimension to foundation
(c)	= Dimension to cladding
(g)	= Dimension to gutter/leave
	= Bubble Up Chamber

-  = Type 1 sump
-  = Type 2 sump
-  = Drainage channel
-  = Overland flow
-  = Fall of paving



CLIENT:

Bolton Residence
Lot 180, DP TBA
Street Address TBA
West Village
Faringdon, Christchurch

TERRITORIAL AUTHORITY:

Selwyn District Council
Inner Plains Zone

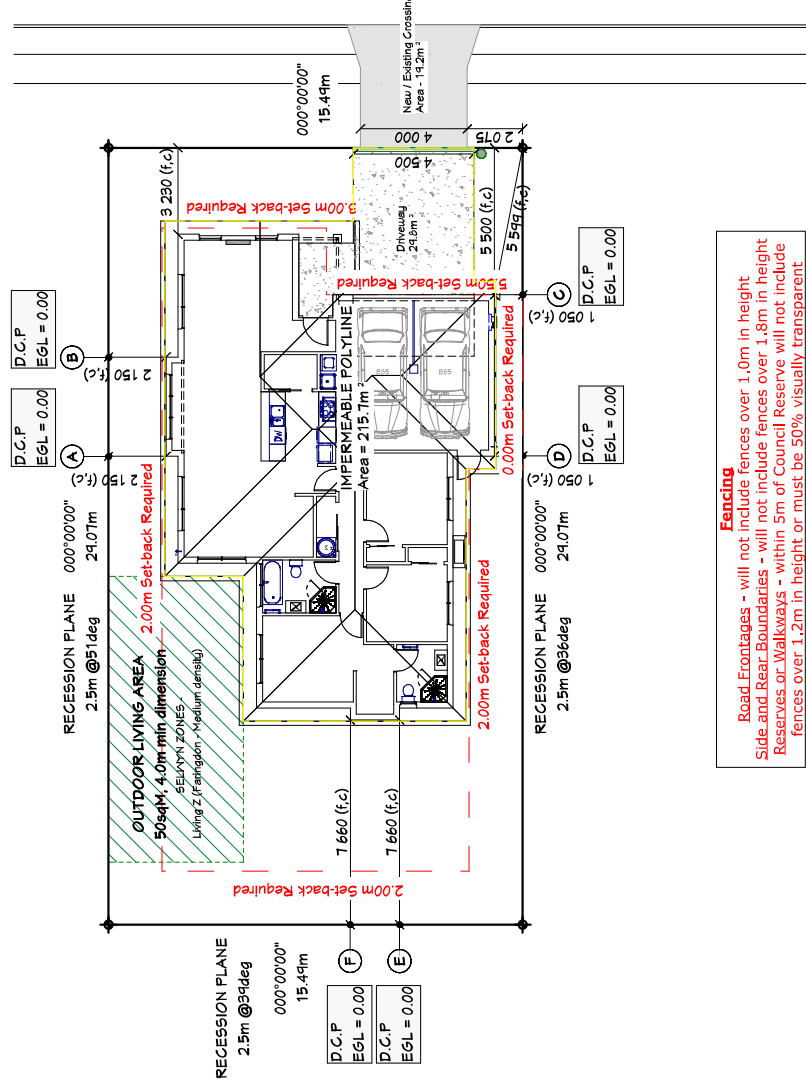
SITE DATA (for zones upto & including):

Sub-soil Classification:	E	REF GEOTECH
Soil Classification	High	
Wind Zone:	2	
Earthquake Zone:	C	
Exposure Zone:	C	
Climate Zone:	3	
Rain Intensity (10%AEP):	61.4mm/hr	
Snowload:	1.0kPa	

Site Planning

JOB No: 97567	SALES:	Grant
LBP: C.Wearne 101176		
DRAWN:	Tom	DATE: 23/04/2021
SCALE:	1:200	SHEET No. 4 OF 11

Lot 180, Faringdon West



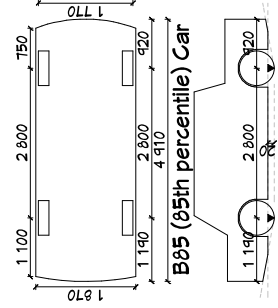
Fencing

Leisure

Road Frontages - will not include fences over 1.0m in height

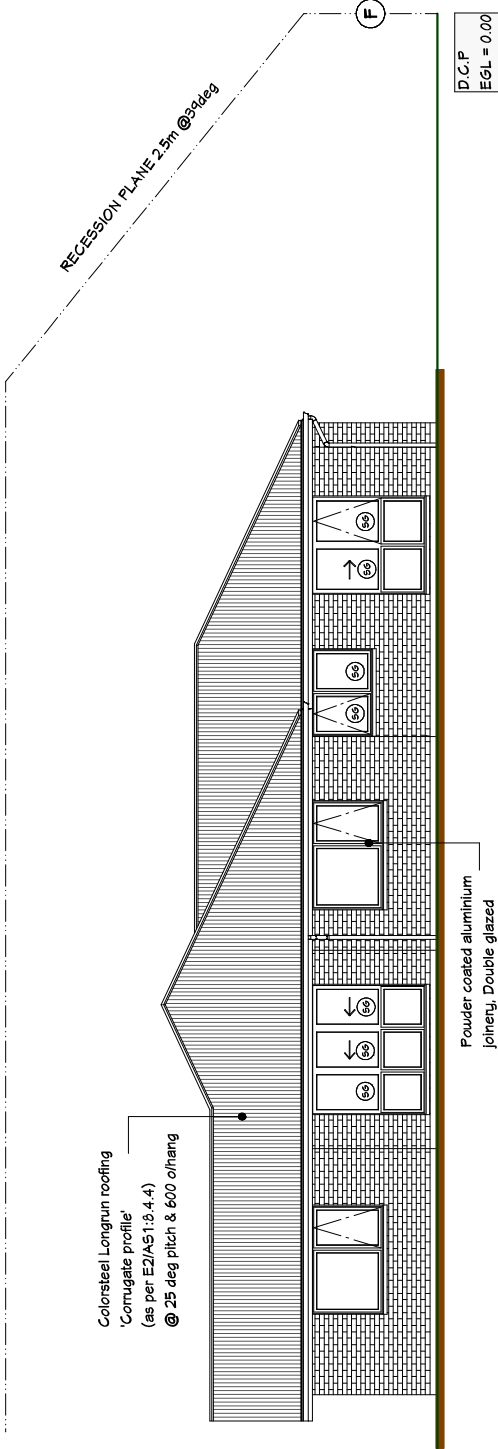
Side and Rear Boundaries - will not include fences over 1.8m in height

Reserves or Walkways - within 5m of Council Reserve will not include fences over 1.2m in height or must be 50% visually transparent

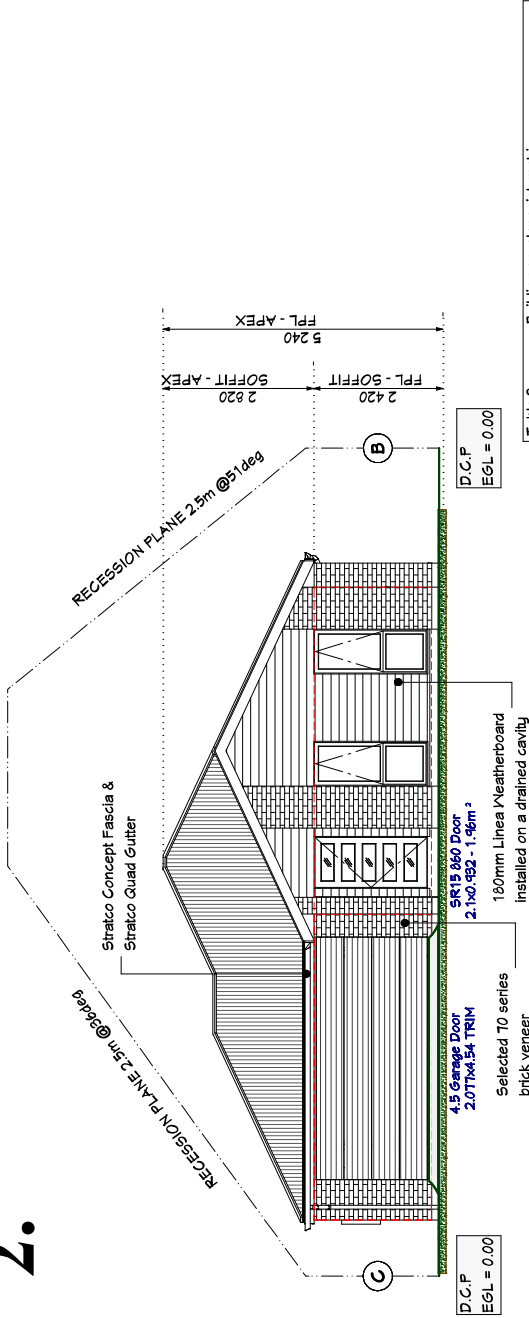


1.

HEIGHT RESTRICTION 8.0m
SELWYN ALL ZONES



2.



FRONT FACADE
Wall Area (incl. G/N) = 26m²
Garage Wall = 12.55m² = 48.3%

Table 2 Building envelope risk matrix Paragraph 3.1.2, Figure 1					
All Walls Risk factor	Risk Severity			Subtotals for each risk factor	
	Low	Med	High	Very High	
Wind zone (per NZS 3604)	0	0	1	2	1
Number of storeys	0	1	2	4	0
Roofwall intersection design	0	1	3	5	1
Eaves width	0	1	2	5	2
Envelope complexity	0	1	3	6	1
Deck Design	0	2	4	6	0
Total Risk Score					5



NOTES:

- If windows & doors are shown upto soffit, window and door sizes are to be measured on site prior to the manufacture of those units.

FPL = Finished Floor Level
FGL = Finished Ground Level
FPL = Finished Platform Level
EGL = Existing Ground Level

(56) Indicates safety glass

Safety Glazing

- All glazing is to be in accordance with the NZ Building Code Handbook and NZS 4223, Parts 1, 2, & 3 Code of Practice for Glazing in Buildings.
- All glazing panels to bathrooms and toilets to have safety glazing to the interior panel only
- All glazing to be confirmed by the manufacturer prior to construction

CLIENT:

Bolton Residence
Lot 180, DP TBA
Street Address TBA
West Village

Faringdon, Christchurch

TERRITORIAL AUTHORITY:

Selwyn District Council
Inner Plains Zone

SITE DATA (for zones upto & including):

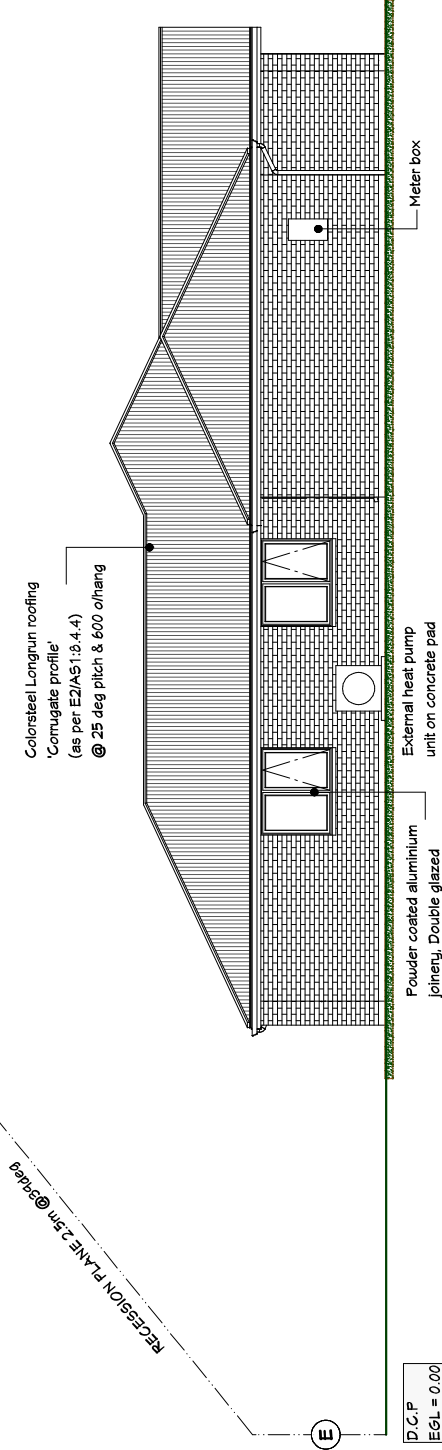
Sub-soil Classification: E REF GEOTECH
Soil Classification: High
Wind Zone: 2
Earthquake Zone: C
Exposure Zone: 3
Climate Zone: 3
Rain Intensity (10%AEF): 61.4mm/hr
Snowload: 1.0kPa

Elevations .1

JOB No: 475671 SALES: Grant
LBP: C.Nearne 101178
DRAWN: Tom DATE: 23/04/2021
SCALE: 1:100 SHEET No. 9 OF 11

3.

HEIGHT RESTRICTION 8.0 m
SELYKN ALL ZONES



4.

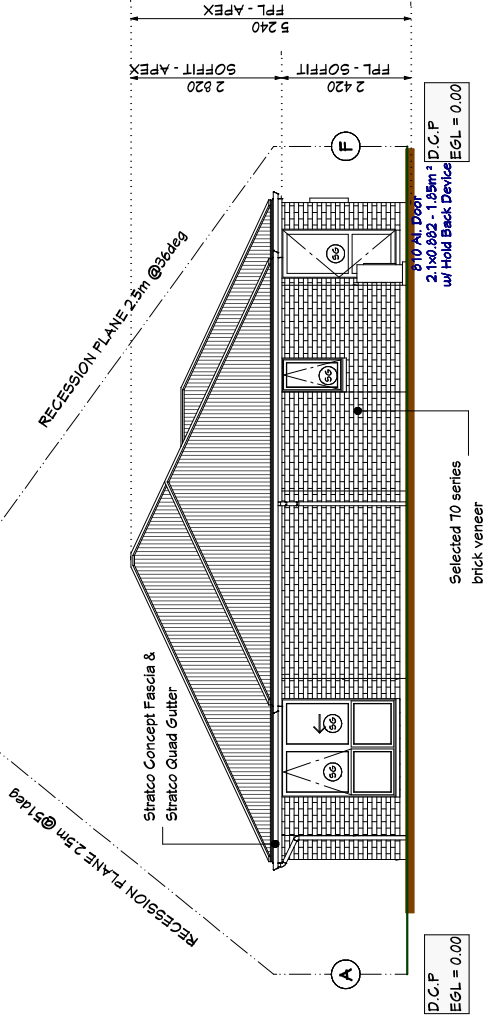


Table 2 Building envelope risk matrix Paragraph 3.1.2, Figure 1					
Risk factor	Risk Severity			Subtotals for each risk factor	
	Low	Med	High	Very High	
All Walls	0	0	1	2	1
Wind zone (per NZS 3604)	0	0	1	2	1
Number of storeys	0	1	3	5	0
Roofwall intersection design	0	1	3	5	1
Eaves width	0	1	2	5	2
Envelope complexity	0	1	3	6	1
Deck Design	0	2	4	6	0
Total Risk Score					5



NOTES:

- If windows & doors are shown upto soffit, window and door sizes are to be measured on site prior to the manufacture of those units.

FFL = Finished Floor Level
FGL = Finished Ground Level
FPL = Finished Platform Level
EGL = Existing Ground Level

(S6) Indicates safety glass

Safety Glazing

- All glazing is to be in accordance with the NZ Building Code Handbook and NZS 4223, Parts 1, 2, & 3 Code of Practice for Glazing in Buildings.
- All glazing panels to bathrooms and toilets to have safety glazing to the interior panel only
- All glazing to be confirmed by the manufacturer prior to construction

CLIENT:

Bolton Residence
Lot 180, DP TBA
Street Address TBA
West Village
Faringdon, Christchurch

TERRITORIAL AUTHORITY:

Selwyn District Council
Inner Plains Zone

SITE DATA (for zones upto & including):

Sub-soil Classification: E
Soil Classification: REF GEOTECH
Wind Zone: High
Earthquake Zone: 2
Exposure Zone: C
Climate Zone: 3
Rain Intensity (10%AEF): 61.4mm/hr
Snowload: 1.0kPa

Elevations .2

JOB No: 475671 SALES: Grant
LBP: C.Nearne 101178
DRAWN: Tom DATE: 23/04/2021
SCALE: 1:100 SHEET No. 10 OF 11

"Type S/M/H/T" Raft slab
Stud height - 2.42m throughout
Truss heel height - 117mm
Interior door leaf height - 1980

18180

[illegible]

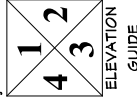
215	x	3 240	x	6 010	x	5 600	x	2 15
215	x	2 620	x	2 400	x	550	x	3 450
215	x	2 170	x	2 400	x	550	x	3 450
x	x	450	x	4 450	x	6 030	x	2 270
18 180								

NOTES:

- 8x4 1mm ZOG® framing
- Natural lighting is provided via glazing to 10% of floor areas for individual rooms
- Natural ventilation is provided via exterior openings of no less than 5% of floor area for individual rooms
- Internal and external walking surfaces to comply with NZBC D1/A51 2.1.1 - 2.1.3, and

Table 2

● External Access Routes surface is either; brushed concrete, exposed crushed aggregate concrete, profiled timber with the profile across the direction of travel, or be flooring selected by the client with a wet slip coefficient of no less than 0.4, refer to the specification for compliance procedure in such situations ● Where FFL is greater than 1.0m from F6L and the bottom of the opening is closer than 160mm to the FFL or a climbable fixture, a restrictor slay is to be fitted to limit the maximum opening so that a 100mm dia sphere cannot pass through it. ● All access routes are to be protected by dangerous projections as shown in D1(A)S1, Fig 6



Bolton Residence
Lot 180, DP TBA
Street Address TBA
West Village
Faringdon, Christchurch

TERRITORIAL AUTHORITY:
Selwyn District Council
Inner Plains Zone

SITE DATA (for zones upto & including):

Sub-soil Classification:	E	REF GEOTECH
Soil Classification	High	
Wind Zone:	2	
Earthquake Zone:	C	
Exposure Zone:		
Climate Zone:	3	
Rain Intensity (10%AEP):	61.4mm/hr	
Snowload:	1.0kPa	

Floor Plan

JOB No:	97567	SALES:	Grant
LBP:	C. Weirne 101178		
DRAWN:	Tom	DATE:	23/04/2021
SCALE:	1:100	SHEET No.	11 OF 11



Andrew Dimock <andrew@nzsteelhomes.com>

RE: Attention: Duty Planner - Lot 180 SD of Lot 1004 Deposited Plan 561686 - 194 Faringdon Boulevard - Faringdon West Village Stage 2 [#2954BI]

Planning Technical <planning.technical@selwyn.govt.nz>

10 February 2022 at 10:48

To: "andrew.dimock@goldenhomes.co.nz" <andrew.dimock@goldenhomes.co.nz>

Hi Andrew

There does not appear to be any planning non-compliances.

Regards

Joanna

Duty Planner

DDI: (03) 347 2800 or 0800 SELWYN (735 996)
Web: www.selwyn.govt.nz

**From:** Selwyn District Council [mailto:CONTACTUS@SELWYN.GOV.T.NZ]**Sent:** Tuesday, 8 February 2022 11:53 a.m.**To:** Planning Technical <planning.technical@selwyn.govt.nz>**Subject:** FW: Attention: Duty Planner - Lot 180 SD of Lot 1004 Deposited Plan 561686 - 194 Faringdon Boulevard - Faringdon West Village Stage 2 [#2954BI]

Hello

Please see below for your attention.

Ngaa mihi nui,

Annie Shankie

Customer Services

T: 0800 SELWYN (0800 735996)

E: contactus@selwyn.govt.nz

SDC - Approved Building Consent Document - BC221276 - Pg 25 of 58 - 20/06/2022 - sandea

-----Original Message-----

From: andrew.dimock@goldenhomes.co.nz

Sent: Tuesday, 8 February 2022 10:57:03 a.m.

To: contactus@selwyn.govt.nz

Subject: Attention: Duty Planner - Lot 180 SD of Lot 1004 Deposited Plan 561686 - [194 Faringdon Boulevard - Faringdon West Village Stage 2](#)

Hi,

Please find attached proposed plans for Lot 180 SD of Lot 1004 Deposited Plan 561686 - [194 Faringdon Boulevard - Faringdon West Village Stage 2](#).

Please provide feedback on any planning non-compliances that may need to be resolved by either a change to the plans or resource consent submission before building consent is applied for using the PPP program.

Kind regards,

Andrew Dimock | Consent Manager | **GOLDEN HOMES**

Mobile: 022 373 2722

Address: [3 Otley Street, Christchurch](#)

Email: andrew.dimock@goldenhomes.co.nz



[2 Norman Kirk Drive](#), Rolleston 7614
PO Box 90, Rolleston 7643
Phone: 0800 SELWYN (735 996)
Fax: (03) 347-2799
www.selwyn.govt.nz | www.selwynlibraries.co.nz
www.selwyn.getsready.net



[2 Norman Kirk Drive](#), Rolleston 7614
PO Box 90, Rolleston 7643
Phone: 0800 SELWYN (735 996)
Fax: (03) 347-2799
www.selwyn.govt.nz | www.selwynlibraries.co.nz
www.selwyn.getsready.net

Lot 180

1 April 2022

NDM Construction Ltd

Email: Heath.Eckersley@goldenhomes.co.nz

Dear Heath

CONCEPT, WORKING DRAWINGS AND EXTERIOR FINISHES APPROVAL FOR LOT NO 180 WEST VILLAGE, FARINGDON, ROLLESTON

Thank you for supplying the concept/working drawings and exterior finishes for the build at the above lot in the Faringdon subdivision.

We are pleased to advise that the exterior finishes and working drawings are approved.

If we can be of any further assistance, please contact the writer.

Kind regards

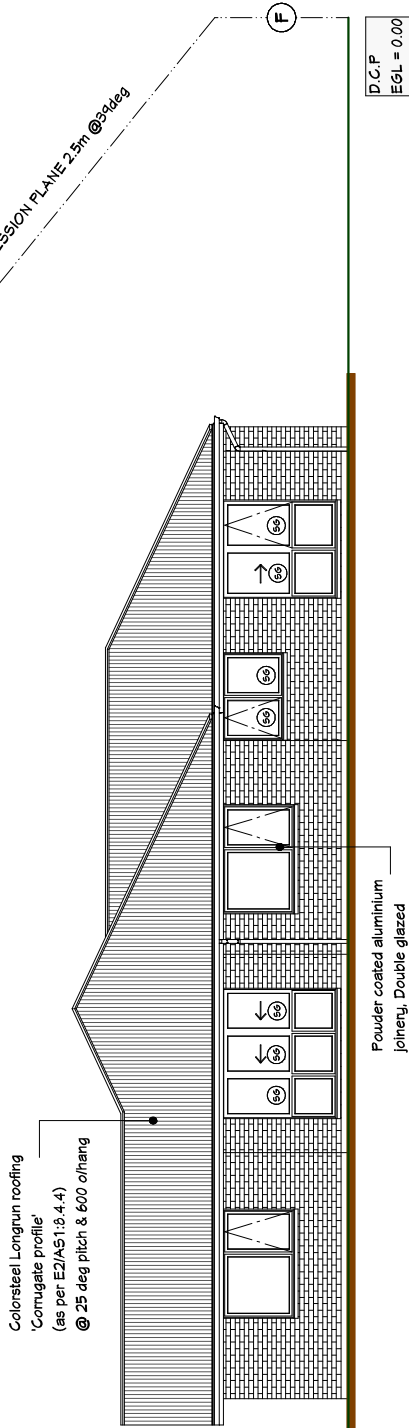


Jane Donnithorne
HUGHES DEVELOPMENTS LTD

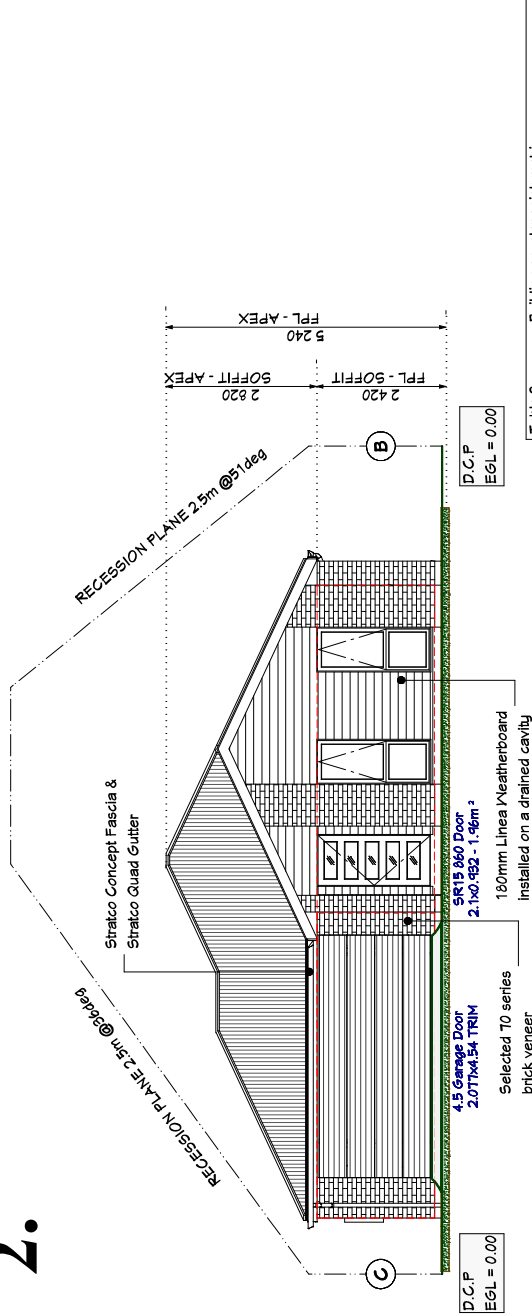
E: jane@hughesdevelopments.co.nz
M: 021 352 209

1.

HEIGHT RESTRICTION 8.0m
SELWYN ALL ZONES



2.



FRONT FACADE
Wall Area (incl. G/N) = 26m²
Garage Wall = 12.55m² = 48.3%

Table 2 Building envelope risk matrix					
All Walls Risk factor	Paragraph 3.1.2 Figure 1 Risk Severity				
	Low	Med	High	Very High	Subtotals for each risk factor
Wind zone (per NZS 3604)	0	0	1	2	1
Number of storeys	0	1	2	4	0
Roofwall intersection design	0	1	3	5	1
Eaves width	0	1	2	5	2
Envelope complexity	0	1	3	6	1
Deck Design	0	2	4	6	0
Total Risk Score					5



NOTES:

- If windows & doors are shown upto soffit, window and door sizes are to be measured on site prior to the manufacture of those units.

FPL = Finished Floor Level
FGL = Finished Ground Level
FPL = Finished Platform Level
EGL = Existing Ground Level

(56) Indicates safety glass

Safety Glazing

- All glazing is to be in accordance with the NZ Building Code Handbook and NZS 4223, Parts 1, 2, & 3 Code of Practice for Glazing in Buildings.
- All glazing panels to bathrooms and toilets to have safety glazing to the interior panel only
- All glazing to be confirmed by the manufacturer prior to construction

CLIENT:

Bolton Residence
Lot 180, DP TBA
Street Address TBA
West Village
Faringdon, Christchurch

TERRITORIAL AUTHORITY:

Selwyn District Council
Inner Plains Zone

SITE DATA (for zones upto & including):

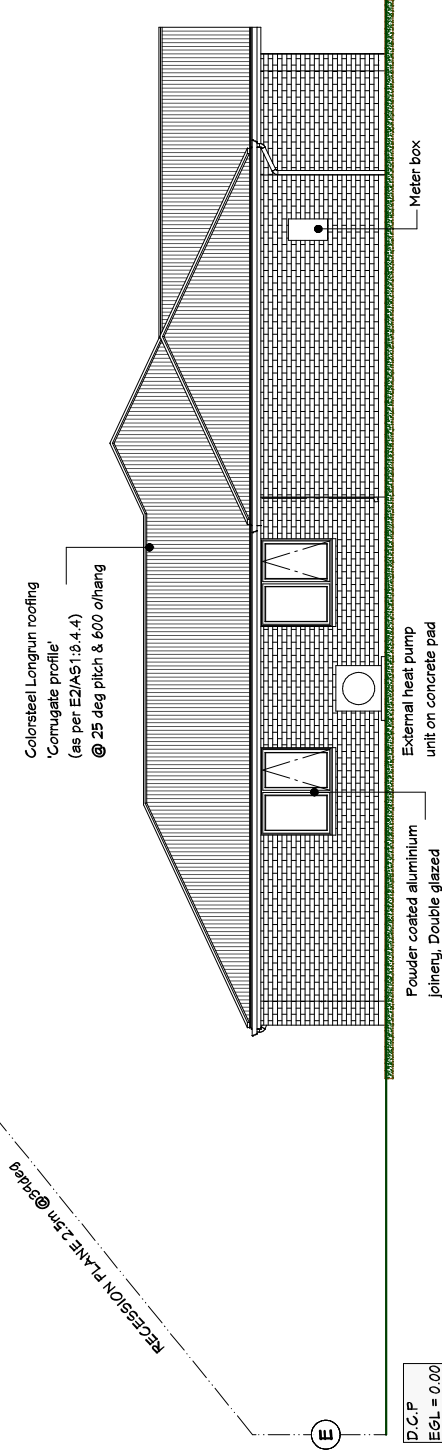
Sub-soil Classification: E REF GEOTECH
Soil Classification: REF GEOTECH
Wind Zone: High
Earthquake Zone: 2
Exposure Zone: C
Climate Zone: 3
Rain Intensity (10%AEF): 61.4mm/hr
Snowload: 1.0kPa

Elevations .1

JOB No: 475671 SALES: Grant
LBP: C.Nearne 101178
DRAWN: Tom DATE: 23/04/2021
SCALE: 1:100 SHEET No. 9 OF 11

3.

HEIGHT RESTRICTION 8.0m
SELWYN ALL ZONES



4.

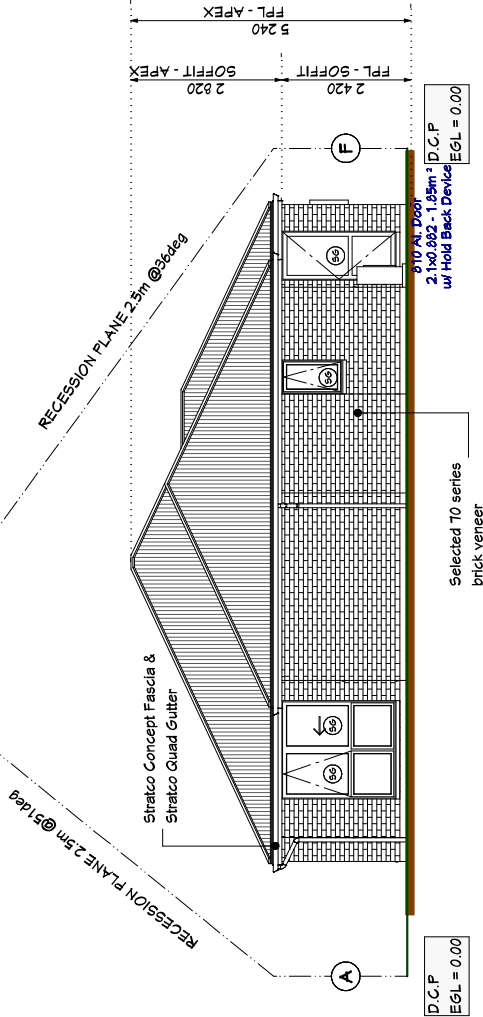


Table 2 Building envelope risk matrix Paragraph 3.1.2, Figure 1					
Risk factor	Risk Severity	Subtotals for each risk factor			
		Low	Med	High	Very High
All Walls	0	0	1	2	1
Wind zone (per NZS 3604)	0	0	1	2	0
Number of storeys	0	1	3	5	1
Roofwall intersection design	0	1	2	5	2
Eaves width	0	1	3	6	1
Envelope complexity	0	2	4	6	0
Deck Design	0	2	4	6	0
Total Risk Score					5



NOTES:

- If windows & doors are shown upto soffit, window and door sizes are to be measured on site prior to the manufacture of those units.

FFL = Finished Floor Level
FGL = Finished Ground Level
FPL = Finished Platform Level
EGL = Existing Ground Level

(S6) Indicates safety glass

Safety Glazing

- All glazing is to be in accordance with the NZ Building Code Handbook and NZS 4223, Parts 1, 2, & 3 Code of Practice for Glazing in Buildings.
- All glazing panels to bathrooms and toilets to have safety glazing to the interior panel only
- All glazing to be confirmed by the manufacturer prior to construction

CLIENT:

Bolton Residence
Lot 180, DP TBA
Street Address TBA
West Village
Faringdon, Christchurch

TERRITORIAL AUTHORITY:
Selwyn District Council
Inner Plains Zone

SITE DATA (for zones upto & including):

Sub-soil Classification: E
Soil Classification: REF GEOTECH
Wind Zone: High
Earthquake Zone: 2
Exposure Zone: C
Climate Zone: 3
Rain Intensity (10%AEF): 61.4mm/hr
Snowload: 1.0kPa

Elevations .2

JOB No: 475671 SALES: Grant
LBP: C.Nearne 101178
DRAWN: Tom DATE: 23/04/2021
SCALE: 1:100 SHEET No. 10 OF 11

TOTAL FLOOR AREA

LIVING AREA

GARAGE AREA (Incl. Laun)

TOTAL ROOF AREA

APPROXIMATE Exterior wall perimeter

APPROXIMATE Interior wall perimeter

APPROXIMATE Fascia & Gutter lineal meters

APPROXIMATE Barge lineal meters

"Type 5"/MHT" Raft slab

Stud height - 2.42m throughout

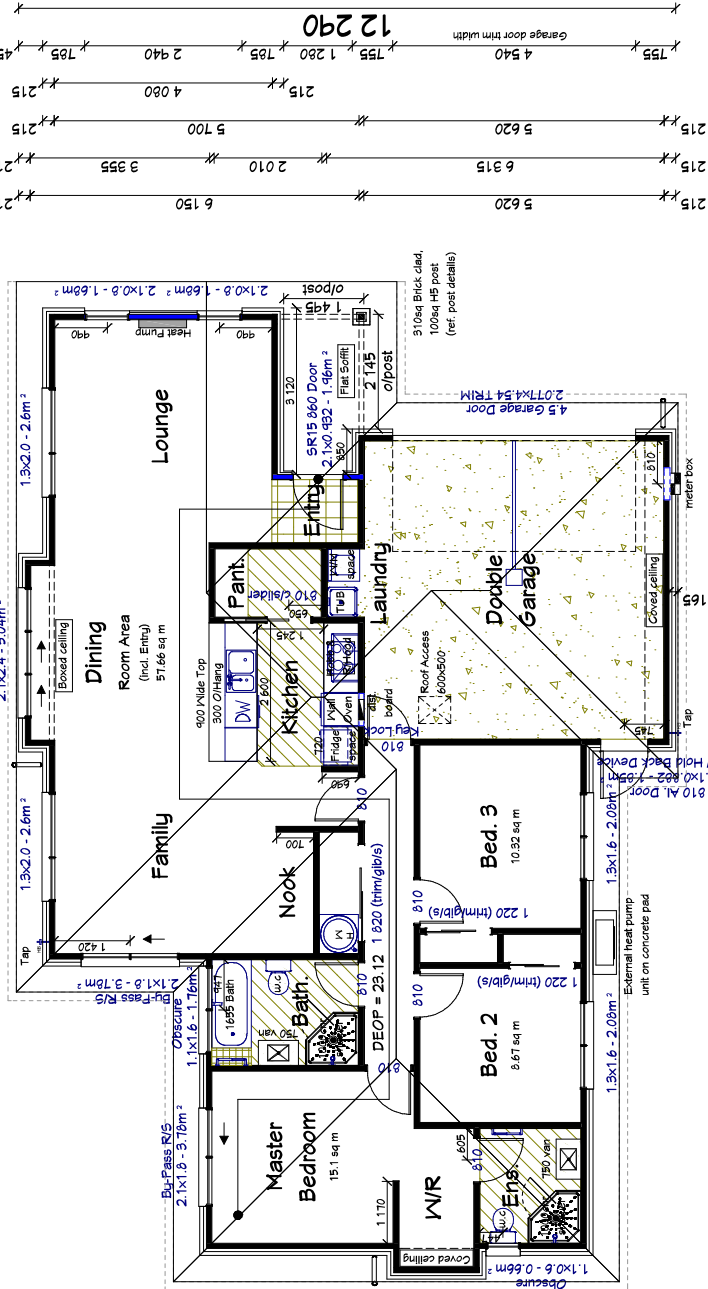
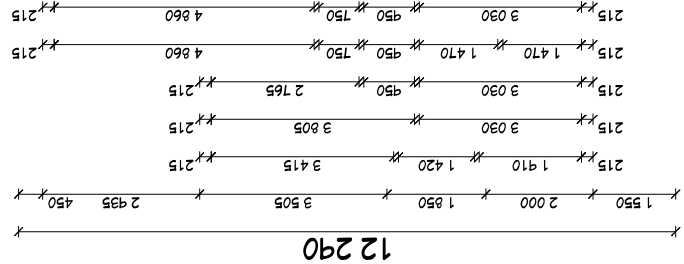
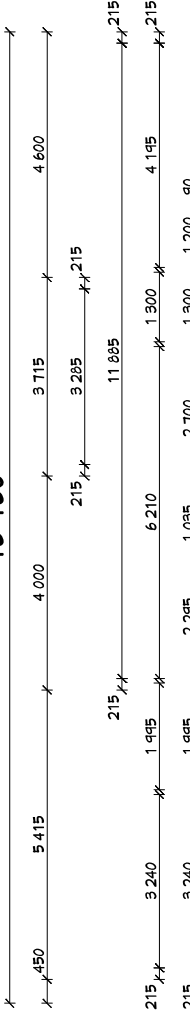
Truss heel height - 117mm

Interior door leaf height - 190

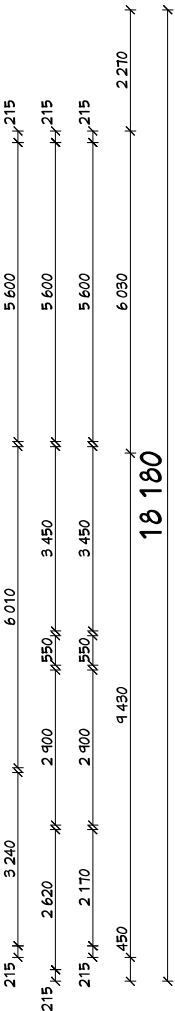
= 164.1sqM
= 128.8sqM
= 35.3sqM
= 193.3sqM

= 62.6m
= 54.9m
= 55.1m
= 7.8m

18 180



FLOOR COVERINGS	
	= Vinyl/Laminate
	= Tiles
	= Carpet
	= Concrete (Steel float finish)



18 180

Note: It is important to understand that these plans are not assessed by an engineer for structural integrity until the working drawings process. Due to this there may be extra costs for structural steel requirements unidentified by the design team.



NOTES:

- 84x41mm ZOG® framing
- Natural lighting is provided via glazing to 10% of floor areas for individual rooms
- Natural ventilation is provided via exterior openings of no less than 5% of floor area for individual rooms
- Internal and external walking surfaces to comply with NZBC D1/AS1 2.1.1 - 2.1.3, and Table 2
- External Access Routes surface is either; brushed concrete, exposed crushed aggregate concrete, profiled timber with the profile across the direction of travel, or be flooring selected by the client with a wet slip coefficient of no less than 0.4, refer to the specification for compliance procedure in such situations
- Where FFL is greater than 1.0m from F&L and the bottom of the opening is closer than 160mm to the FFL or a climbable fixture, a restrictor stay is to be fitted to limit the maximum opening so that a 100mm dia sphere cannot pass through it.
- All access routes are to be protected by dangerous projections as shown in D1/AS1, Fig 6



CLIENT:

Bolton Residence
Lot 180, DP TBA
Street Address TBA
West Village
Faringdon, Christchurch
TERRITORIAL AUTHORITY:
Selwyn District Council
Inner Plains Zone

SITE DATA (for zones upto & including):

Sub-soil Classification: E
Soil Classification REF GEOTECH High
Wind Zone: 2
Earthquake Zone: C
Exposure Zone: 3
Climate Zone: 3
Rain Intensity (10%AEF): 61.4mm/hr
Snowload: 1.0kPa

Floor Plan

JOB No:	47567	SALES:	Grant
LBP:	C.Nearne 101178		
DRAWN:	Tom	DATE:	23/04/2021
SCALE:	1:100	SHEET No.	11 OF 11

LIVING AREA

GARAGE AREA (incl. Laun)

TOTAL ROOF AREA

APPROXIMATE Escalator used guidelines

APPROXIMATE Interior wall profile for

APPROXIMATE fascia & gutter lined meters

APPROXIMATE Base level meters

Type SIMPLY Raft slab

Slab height - 2.42m throughout

Truss heel height - 117mm

Interior door leaf height - 1480

= 128.8sqm

= 35.3sqm

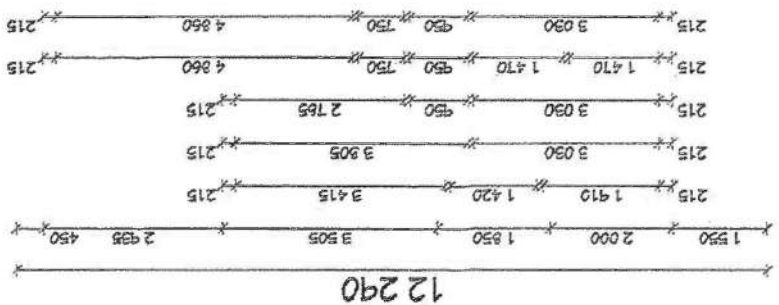
= 193.3sqm

= 62.4m

= 54.1m

= 55.1m

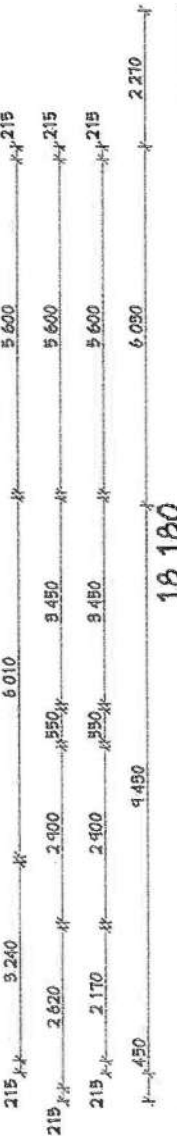
= 1.4m



AJB

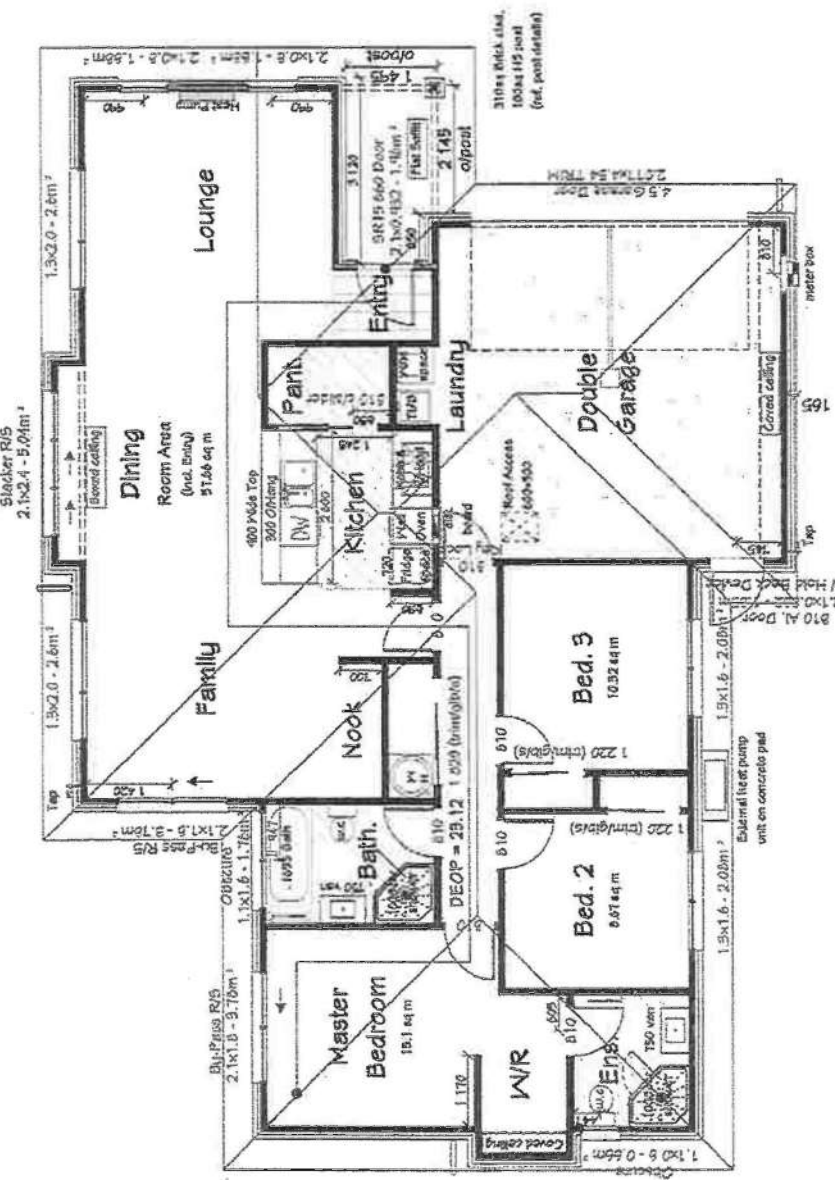
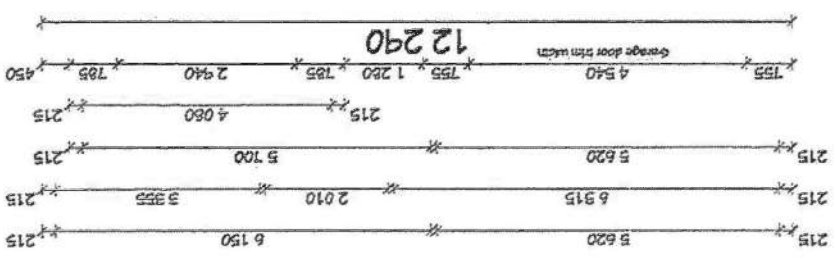
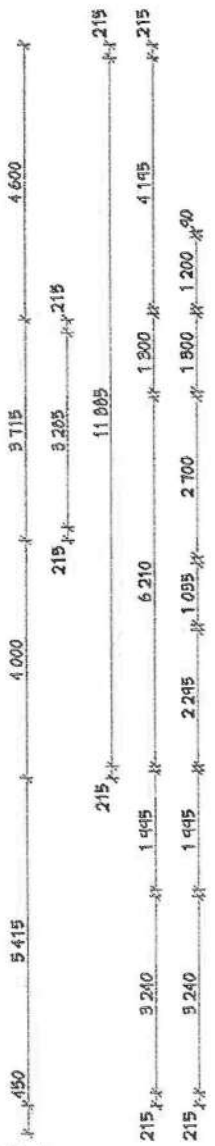
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FLOOR COVERINGS	
Vinyl/Laminat	
Tile	
Carpet	
Concrete	



18 180

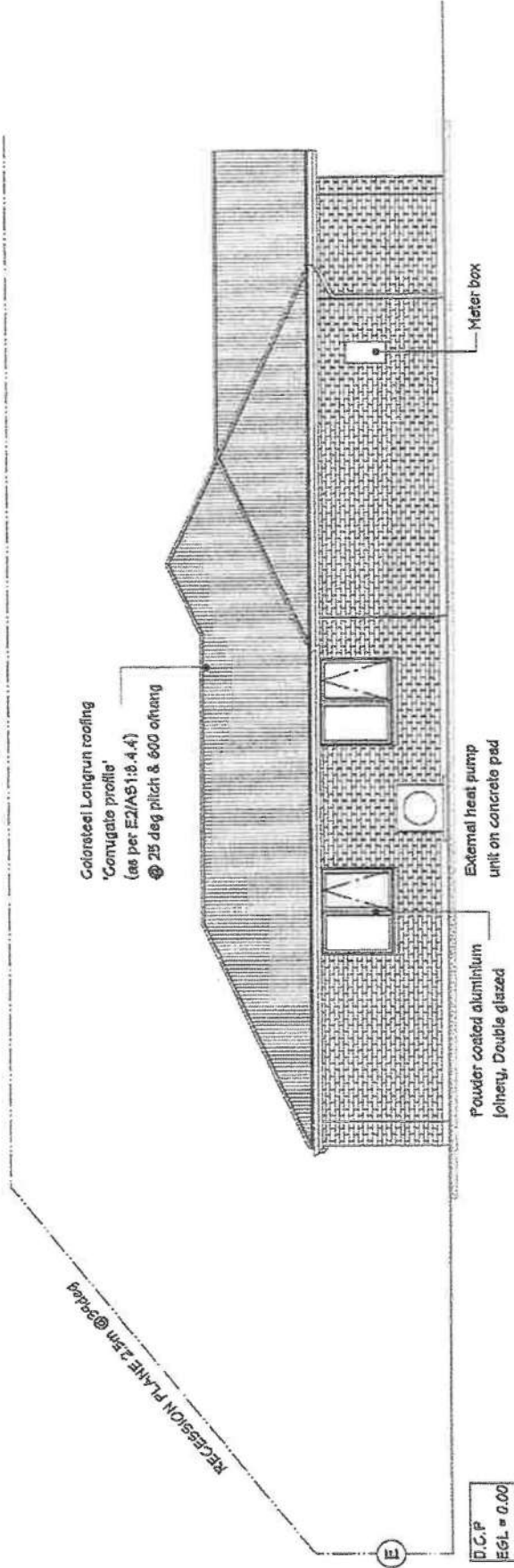
18 180



CLIENT: Boil Lot Site Faringdon TERRITORIAL A 560m in SITE DATA (for zi Sub-soil Classificat Soil Classification Wind Zone: Earthquake Zone Exposure Zone: Climate Zone: Rain Intensity (10 Snowload:

NOTES: 8900 • Natural lighting 10% of floor are • Natural ventilat openings of no individual room • Internal and ext comply with NZ Table 2 • External Acces brushed concr aggregate conc profile across t flooring select coefficient of n specification for such situations • Where FFL is 6 760mm to the r and the bottom retractor slag it medium open sphere cannot 1 • All access route dangerous proj Fig 6

HEIGHT RESTRICTION 8.0 m
SELAHYN ALL ZONES



4.

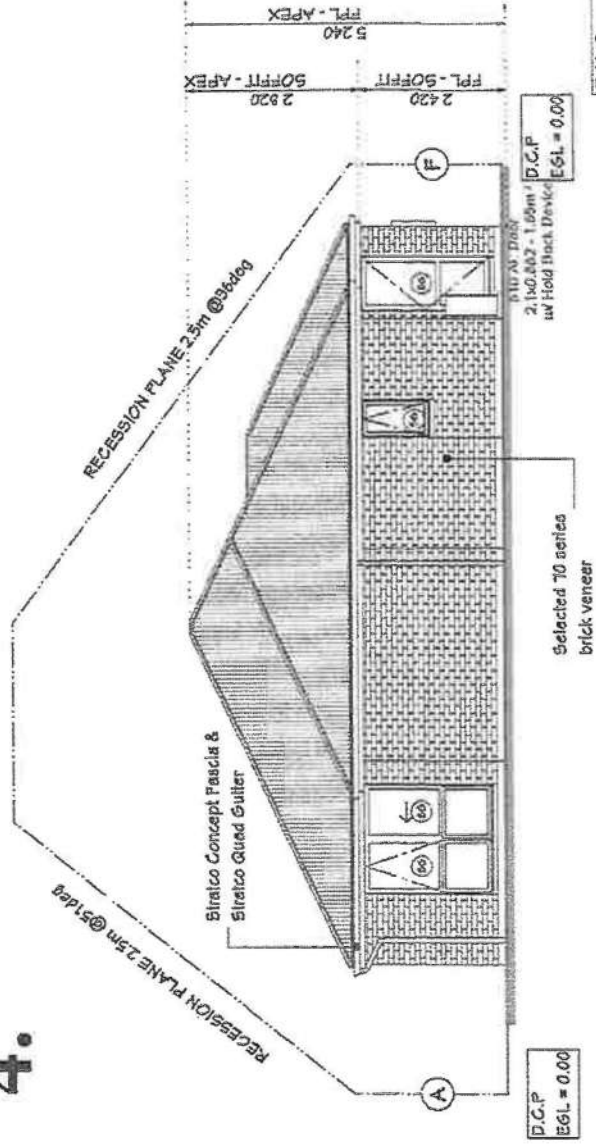


Table 2 Building envelope risk matrix
Paragraph 3.1.2, Figure 1

All Walls	Risk Severity	Very High	High	Medium	Low
Risk factor:		Very High	High	Medium	Low

NOTES:

- If windows & window and c on site prior t units.
- FPL = Finish
- PGL = Finish
- FPL = Finish
- EGL = Exis
- (S6) Indicates
- Safety Glazing
- All glazing in Building Code Parts 1, 2, & in Buildings.
- All glazing p have safety
- All glazing to manufacture

CLIENT:

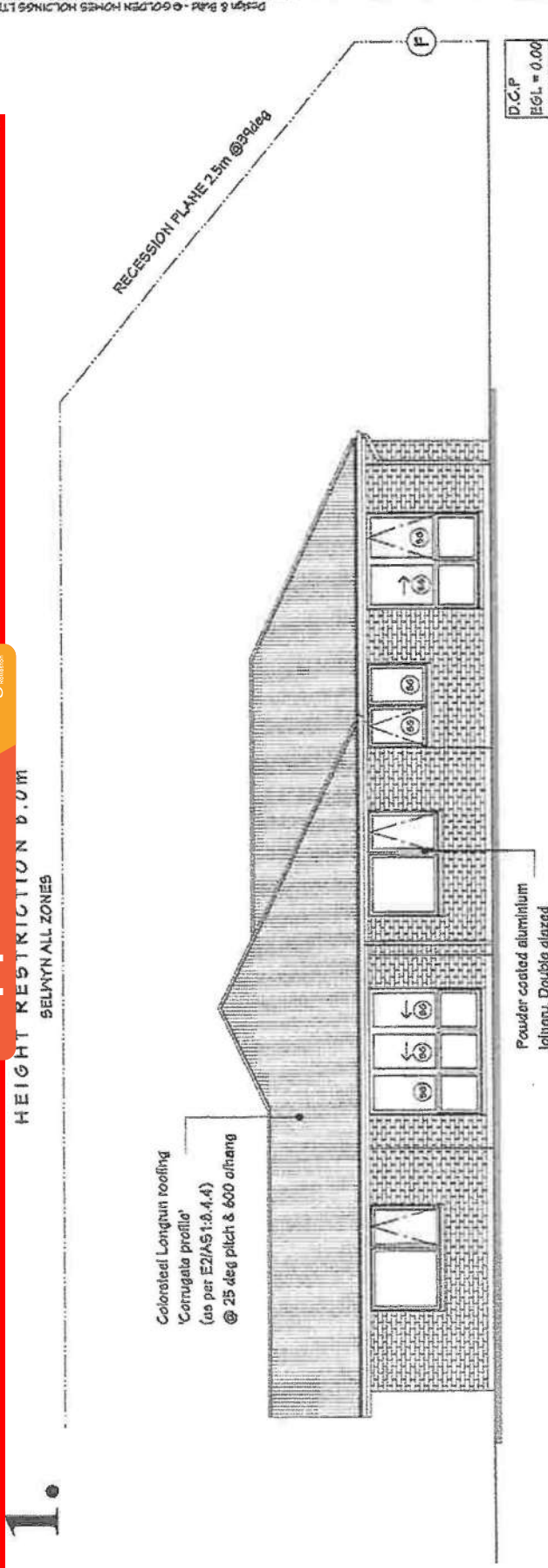
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TERRITORIAL

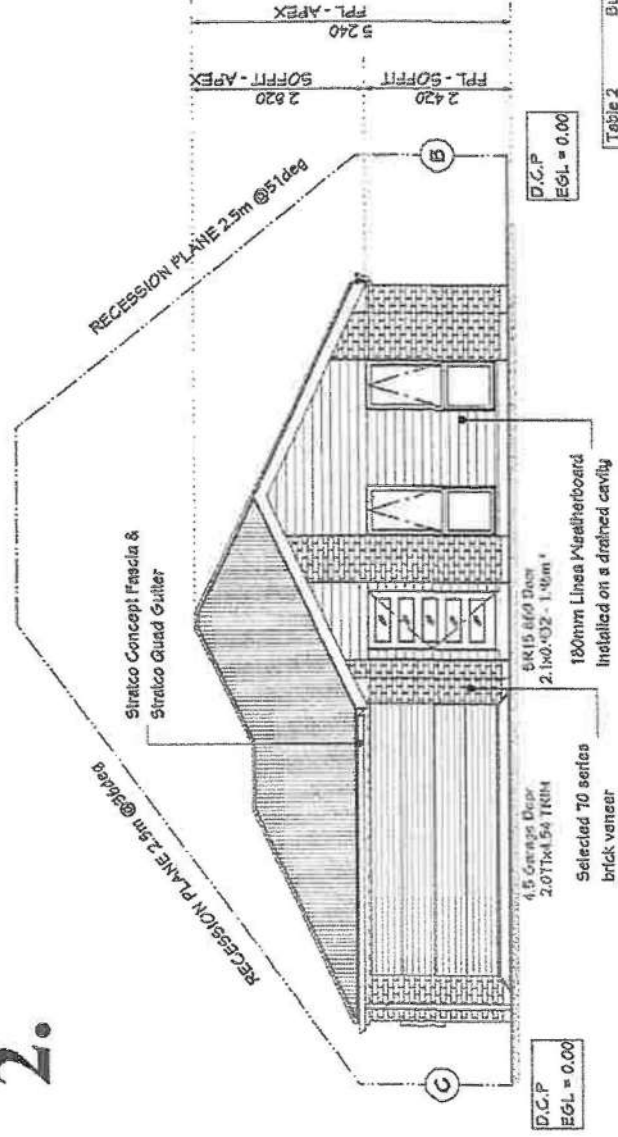
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SITE DATA (6

Sub-soil Class
Wind Zone:
Earthquake Z
Exposure Zon
Climate Zone:
Rain Intensity
Snowload:

HEIGHT RESTRICTION 8.0M
SELYNNAL ZONES

2.



FRONT FACADE

Wall Area (incl. G/V) = 26m²

Garage Wall = 12.55m² & 40 sq.

Table 2 Building envelope risk matrix
Paragraph 3.1.2, Figure 1

All Walls Risk factor	Low	Med	High	Very High	Subtotals for each risk factor

NOTES:

• If windows & doors are on site prior to the start of construction, they should be protected from damage.

FFL = Finished

FGL = Finished

FPL = Finished

EGL = Existing

(S) Indicates as

Safety Glazing

• All glazing in to

Building Code H

Parts 1, 2, & 3 C

In Buildings.

• All glazing panels

have safety glass

• All glazing to be

manufacturer's

specification.

D.C.P

EGL = 0.00

CLIENT:

Bolk

Lot

Street

W

Faringdon

Territorial AU

Setback

m

SITE DATA (for 20

Soil-soil Classifica

Soil Classification

Wind Zone:

Earthquake Zone:

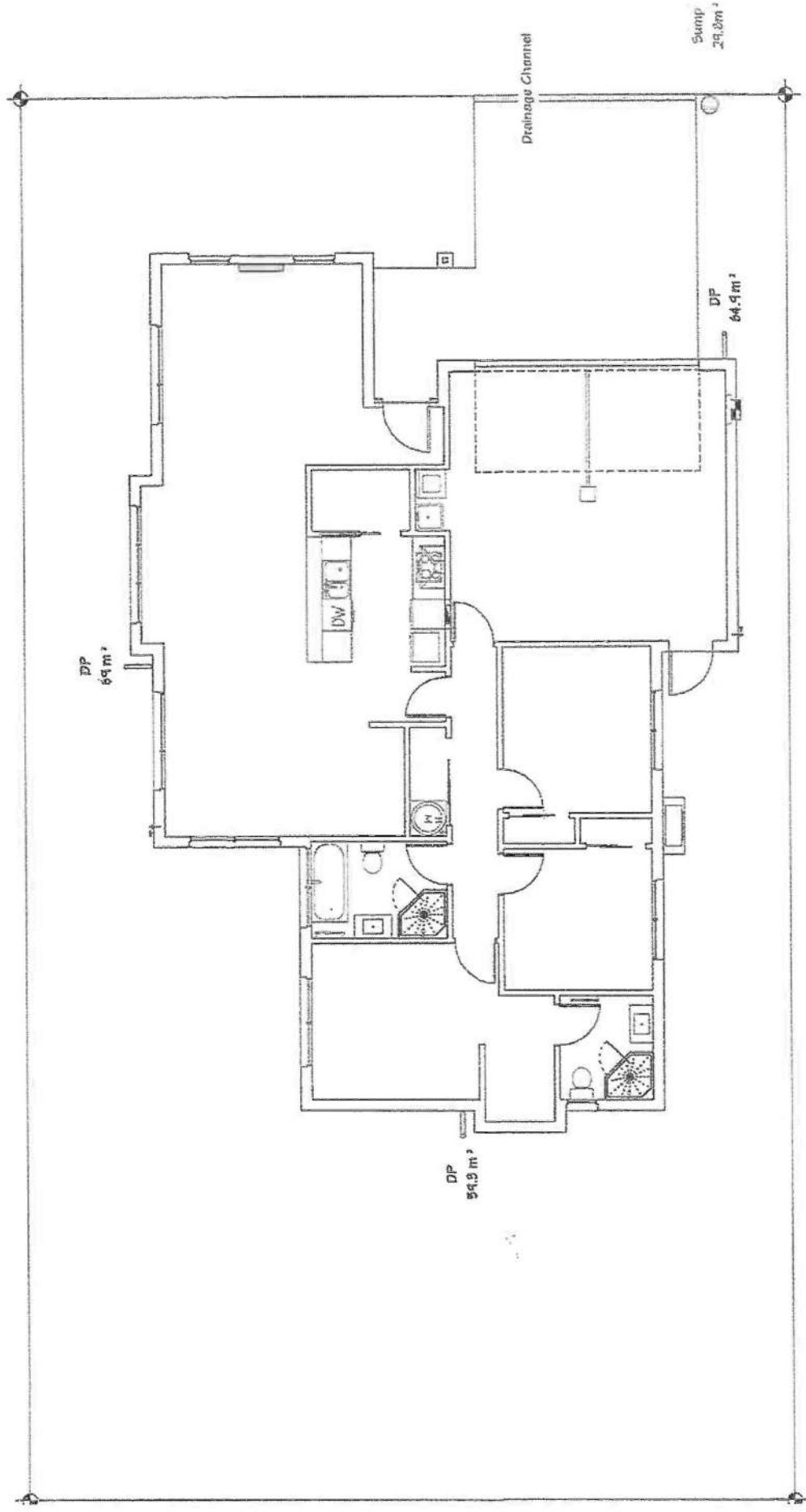
Exposure Zone:

Climate Zone:

Rain Intensity (10'

Snowload:

File

EJS
AJR

NOTES:

- Prior to making any alterations, the contractor must ensure the structural integrity of the existing building.
- Yards must be fully enclosed by a wall or fence.
- Laundry tub must be installed in the kitchen area.
- Kitchen sink must be installed in the kitchen area.
- Fully enclosed by a wall or fence.
- Diameter must be at least 100mm.



- Bu
- Ty
- Ty
- Dr

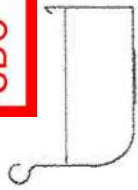
CLIENT:

B
L
St

Territorial

SITE DATA (to be completed by client)

Sub-soil Class:
Soil Classification:
Wind Zone:
Earthquake Zone:
Exposure Zone:
Climate Zone:
Rain Intensity:
Snowload:

**Stratco Quad 115 GUTTER**

Material : 0.5mm Colorcode Steel

Cross Sectional Area : 5621mm² (4mm free (6mm board)

Flow Capacity : 71 litres/min.

Minimum Recommended Fall : 1:500

DOWNPIPE

Minimum 80mm diameter

Rainfall Intensity, I (mm/hr)	Under 25 deg	Under 35 deg	Under 45 deg	Under 55 deg
Area to downpipe e/side (m ²)	41	54	27	21
Area to downpipe Total (m ²)	80	70	60	50

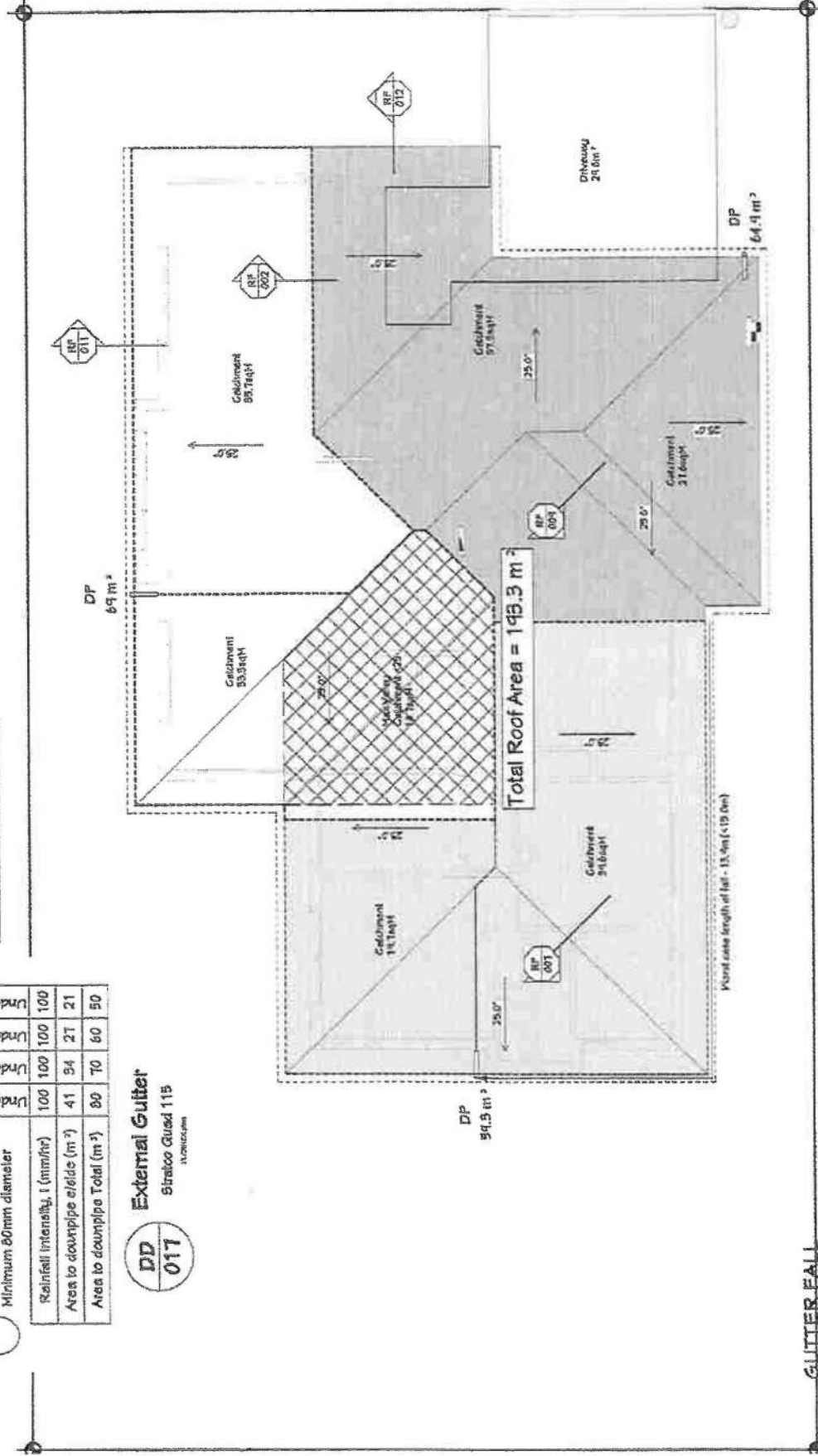
DD
017

External Gutter

Stratco Quad 115

115mm deep

At 61.4mm/min rainfall intensity
Area to downpipe e/side = 53.5m²
(100 + 61.4) x 34 = 53.374

**GUTTER FALL****REQUIREMENTS**

Gutter	← →
Gutterment 4.2sqm	Gutterment 4.2sqm

NOTES:

- Flow direction of the rainfall
- The finished ground level as to carry out slope of not less than 1:100
- Paved entry at below the FFL
- comply with N minimum cross from building
- Driveway to 1:100, 1:50 m access via wall comply with N
- All paving will unless otherwise
- For cladding cladding detail

KEY

- Bubble
- Type
- Type
- Drain
- Overl
- Fall

CLIENT:

Bc
Lc
Str
Farin
Se

TERRITORIAL

SITE DATA (for Sub-soil Class)
Soil Classification
Wind Zone
Earthquake Zone
Exposure Zone
Climate Zone
Rain Intensity (Snowload)



Design & Build - Golden Homes Holdings Ltd

Refer to Cladding dimension 1.

FGL-1

SP/001

CLIENT:

Be

7

57

Early

ORIGINAL

01470648

THE DATA (continued)

188417 (105-0115)

1987

Wind Zone:

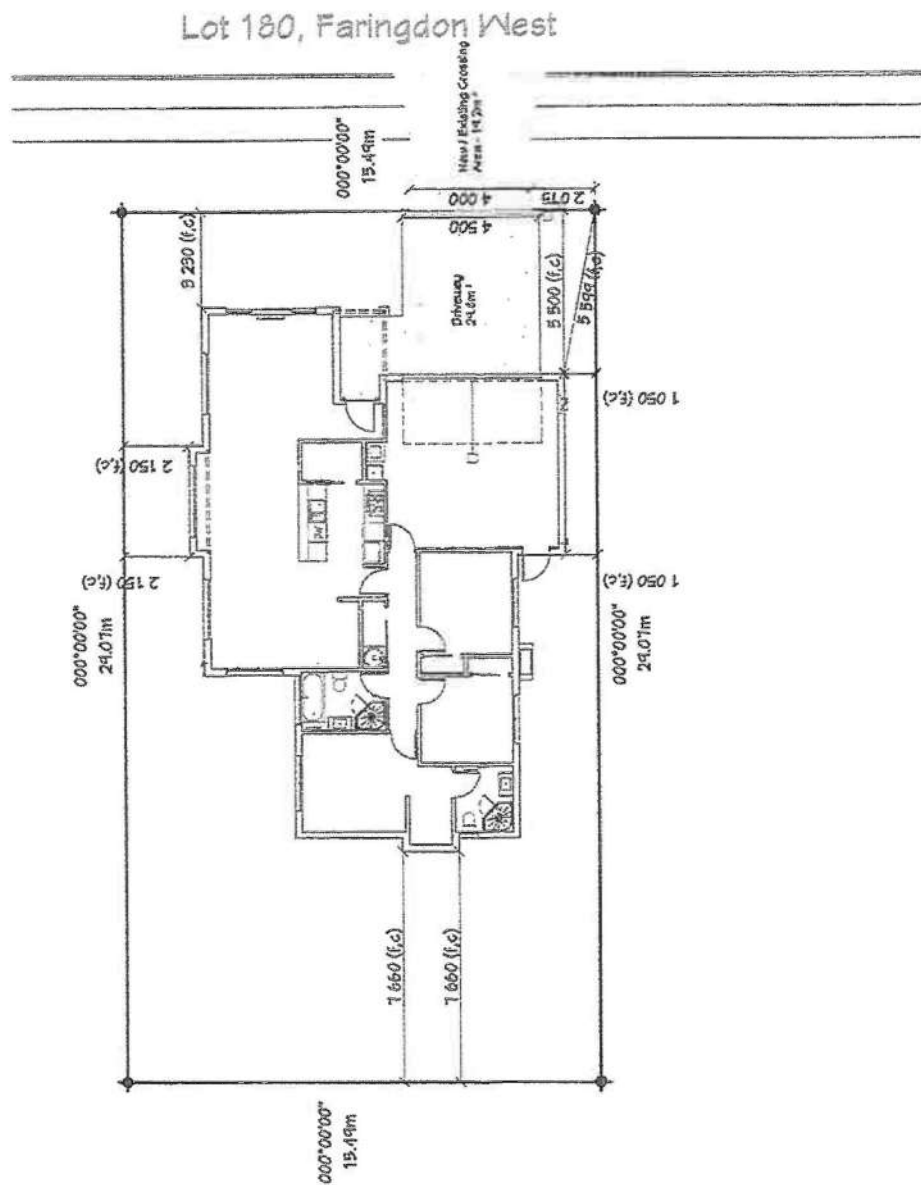
Earthquake Zo

Exposure Zone

Climate Zone:

Relative Intensity

Keywords:

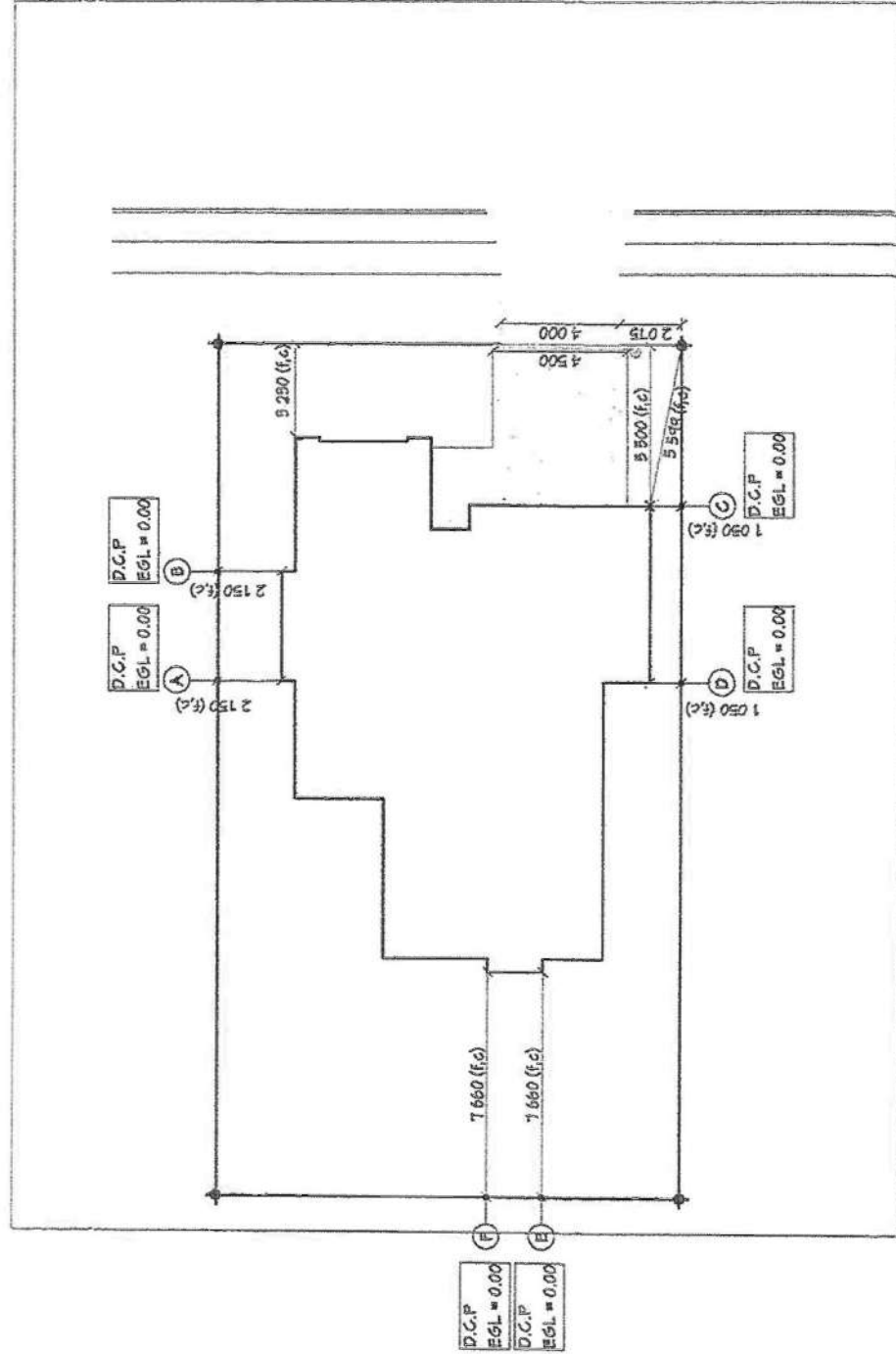


Excavation at the Foundation
 geotechnical
 Minimum Ultimate Bearing Capacity required for slab is: $###\text{ kPa}$
 Extent of Platform beyond Foundation Edge:
 Dig out depth is:
 General Notes:

Approved
 Approved by
 Faringdon

g 38 of 58 - 20/06/2022 - sandea

1000mm (except where Deepened Foundation Edges are shown)
 ###mm or All topsoil approx. ###-###mm (Approximate only to be confirmed on-site during excavation)



NOTES:
 KEY
 FFL = Finish
 FGL = Finish
 FPL = Finish
 EGL = Existing
 D.C.P. = Drain
 (f) = Dimple
 (c) = Dimple
 (a) = Dimple
 (b) = Bubble
 (t) = Type
 (u) = Type
 (d) = Drain
 (o) = Over
 (f) = Fall
 (o) = Fall
 Onsite conditions
 In accordance
 Access via
 Covered with
 Slope access
 be controlled
 environment
 Temporary d
 control roof
 CLIENT:
 BC
 Lr
 Sit
 Farin
 TERRITORIAL
 SITE DATA (for
 Sub-soil Classi
 Soil Classificati
 Wind Zone:
 Earthquake Zon
 Exposure Zone
 Climate Zone
 Rain Intensity (C
 Standard:

COVERAGE

360 areas

Footprint (over cladding)

Footprint (incl. roof over 600)

SDC - AP

164.1m² = 36.5%

170.9m² = 38%

NOTES:

KEY

FPL	Finish
FGL	Finish
FPL	Finish
EGL	Explain
D.C.P.	Day
(f)	Dimension
(c)	Dimension
(g)	Dimension
	Bubble
	Type
	Type
	Drain
	Over
	Fall

CLIENT:

三

5

515

11/11

74

100

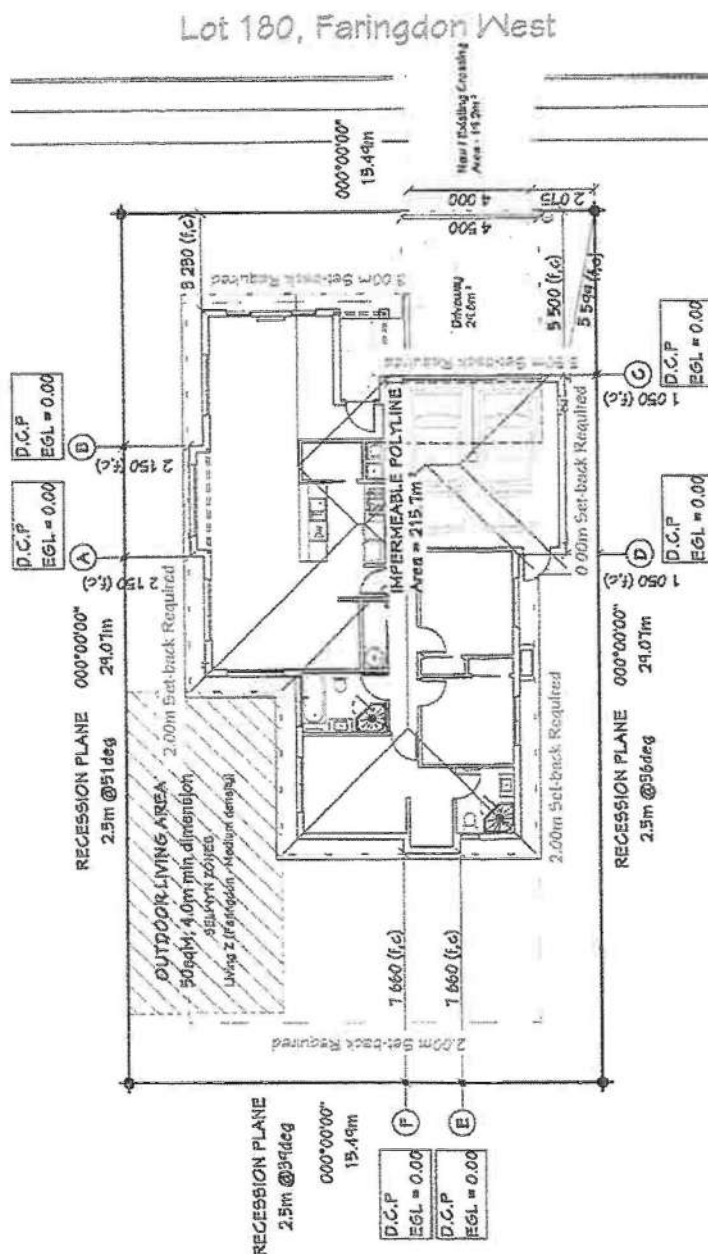
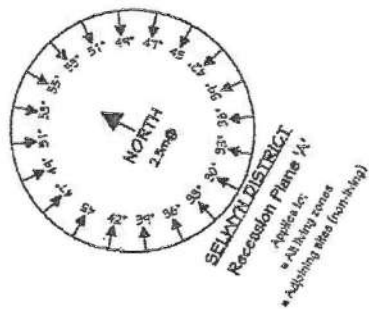
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100

27

Some

15. 16.

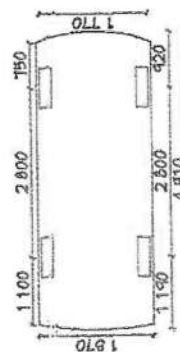


Equinox

Planning

Road Frontages - will not include fences over 1.0m in height and Rear Boundaries - will not include fences over 1.8m in height

Services or Walkways - within 5m of Council Reserve will not include fences over 1.2m in height or must be 50% visually transparent



AS



TBIR Landscaping

P. 027 378 9451 E. tbirgrass@gmail.com fb. www.facebook.com/tbirgrass/



Approved – privacy fences must be built in dressed timber and the fences visible from the street to be stained or painted please.

Consent Document - BC221276 - Pg 40 of 58 - 20/06/2022 - sandea

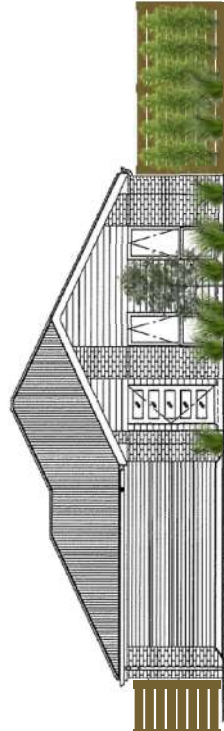
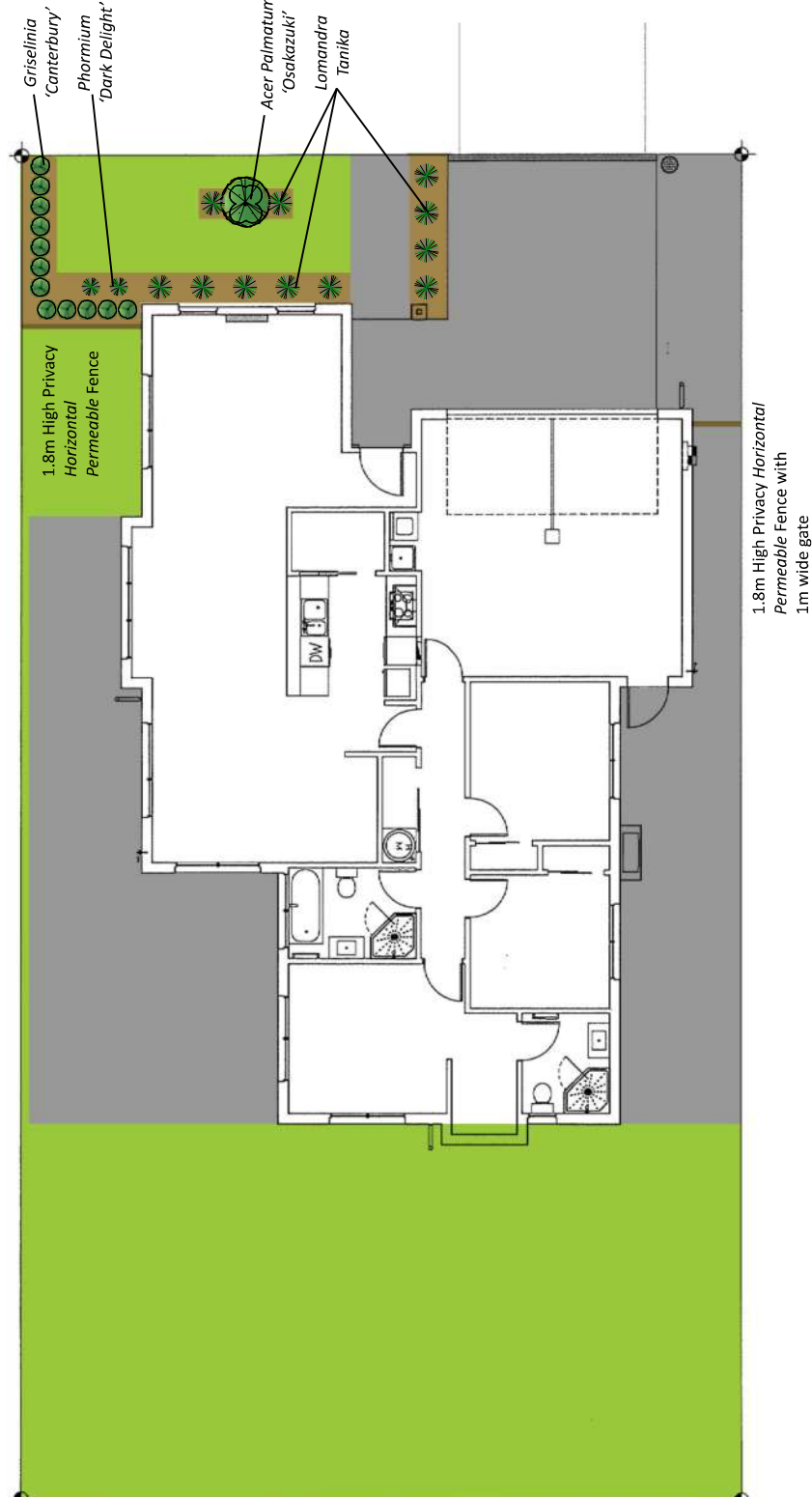
LOT 180 WEST VILLAGE LANDSCAPE DESIGN

PLANTING SCHEDULE

Griselinia 'Canterbury'	12
Phormium 'Dark Delight'	2
Lomandra Tanika	11
Acer Palmatum 'Osakazuki'	1

Fencing Style:

- 1.8m high 100x25 Dressed
- H3 Pine Horizontal Permeable with Capping
- Set Back 300 from house corner





CERTIFICATE NO: CM70023 Rev1
Date of issue: 26 October 2021

1 CERTIFICATE HOLDER DETAILS

DINEX Limited
63 Hewletts Road
Mount Maunganui, 3116
New Zealand

Email: codemark@dinex.co.nz
Ph: 021 730 400 / 07 574 2340

2 PRODUCT CERTIFICATION BODY

Bureau Veritas Australia Pty Ltd
3/435 Williamstown Road
Port Melbourne VIC 3207
Australia

Ph: 1800 855 190

www.bureauveritas.com.au

Bureau Veritas Australia Pty Ltd

The complaints process for this certificate
can be found here:

www.bureauveritas.com.au/your-feedback

PRODUCT CERTIFICATE

DINEX Building Design Method

KEY INFORMATION

3 SUMMARY OF DESCRIPTION OF BUILDING METHOD OR PRODUCT

The DINEX Building Design Method is a controlled design method for creating site-specific plans and specifications, as defined by section 7 of the Building Act 2004, for building consent applications, and post consent alterations.

Continuation of description can be found in item 9. Supporting Information about Description of Building Product or Method.
Matters that should be taken into account in the use or application of the building method or product can be found in item 6. Conditions and Limitations of Use.

4 SUMMARY OF INTENDED USE OF BUILDING METHOD OR PRODUCT

The DINEX Building Design Method shall only be applied to buildings of the following classified uses:

- Housing (Building Code Clauses A1 2.0.2, 2.0.3, 2.0.4)
 - Communal Residential (Building Code Clause A1 3.0.2 (Community service))
 - Outbuildings (Building Code Clause A1 7.0.1) limited to garages, carports.
 - Ancillary (Building Code Clause A1 8.0.1) limited to retaining walls, fences (excluding fencing of a swimming pool), free standing outdoor fireplace, and detached decking and pergolas
- And shall meet ALL of the following requirements
- Building height less than 10m, design risk score ≤20 when calculated using the E2/AS4 risk matrix
 - For all seismic, snow, wind and corrosion exposure zones, as defined in NZS3604:2011 Timber-framed buildings and all climate zones, as defined in NZS 4218:2009 Thermal insulation - Housing and small buildings

Continuation of intended use can be found in item 10. Supporting Information about Intended use of Building Product or Method.

5 BUILDING CODE PROVISIONS

The performance clauses of the New Zealand Building Code that are relevant to the intended use and with which the building method or product complies or contributes to (where used as part of a system).

B1 Structure - B1.3.1, B1.3.2, B1.3.3 (a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r), B1.3.4, B1.3.6, B1.3.7

B2 Durability - B2.3.1 (a, b, c), B2.3.2 (a, b)

C2 Prevention of fire occurring - C2.2, C2.3

C3 Fire affecting areas beyond the source - C3.4 (a, b, c), C3.6, C3.7 (a, c)

C4 Movement to a place of safety - C4.3 C4.5

C5 Access and safety for firefighting operations - C5.3 C5.4, C5.5, C5.6, C5.7, C5.8

C6 Structural stability - C6.2 (a)

PRODUCT CERTIFICATE

DINEX Building Design Method

D1 Access Routes - D1.3.1 (a, b, c), D1.3.2, D1.3.3 (a, b, c, d, e, f, g, h, i, j, k, l, m, n), D1.3.4 (a, b, d, e, f, g, h)
D2 Mechanical installations for access - D2.3.1, D2.3.2, D2.3.3 (a, b, c, d), D2.3.4, D2.3.5
E1 Surface water - E1.3.1, E1.3.2, E1.3.3
E2 External moisture - E2.3.1, E2.3.2, E2.3.3, E2.3.4, E2.3.5, E2.3.6, E2.3.7
E3 Internal moisture - E3.3.1, E3.3.2, E3.3.3, E3.3.4, E3.3.5, E3.3.6
F2 Hazardous building materials - F2.3.1, F2.3.2, F2.3.3
F4 Safety from falling - F4.3.1, F4.3.2, F4.3.4
F5 Construction and demolition hazards - F5,
F6 Visibility in escape routes - F6.3.1, F6.3.2, F6.3.3, F6.3.4, F6.3.5, F6.3.6
F7 Warning systems - F7.3.1, F7.3.2, F7.3.3
F8 Signs - F8.3.1, F8.3.2, F8.3.3, F8.3.4, F8.3.5
G1 Personal hygiene - G1.3.1, G1.3.2, G1.3.3, G1.3.4
G2 Laundering - G2.3.1, G2.3.2, G2.3.3, G2.3.4
G3 Food preparation and prevention of contamination - G3.3.1, G3.3.2, G3.3.3, G3.3.4, G3.3.5
G4 Ventilation - G4.3.1, G4.3.2, G4.3.3 (a, b, c, i), G4.3.4, G4.3.5
G5 Interior environment - G5.3.1, G5.3.2, G5.3.3, G5.3.4, G5.3.5
G6 Airborne and impact sound - G6.3.1, G6.3.2
G7 Natural light - G7.3.1, G7.3.2
G8 Artificial light - G8.3
G9 Electricity - G9.3.1, G9.3.2, G9.3.3, G9.3.4
G10 Piped services - G10.3.1, G10.3.2, G10.3.3, G10.3.4, G10.3.5, G10.3.6, G10.3.5, G10.3.6
G11 Gas as an energy source- G11.3.1, G11.3.2, G11.3.3, G11.3.4, G11.3.5, G11.3.6
G12 Water supplies- G12.3.1, G12.3.2 G12.3.3, G12.3.4, G12.3.5, G12.3.6, G12.3.7, G12.3.8), G12.3.9, G12.3.10
G13 Foul water- G13.3.1, G13.3.2, G13.3.3, G13.3.4
G15 Solid waste - G15
H1 Energy efficiency - H1.3, H1.3.2E, H1.3.3, H1.3.4, H1.3.5

How the building method or product complies or contributes can be found in item 12. Basis for Certification. Any qualifications on the extent of that compliance can be found in item 6. Conditions and limitations of use.

PRODUCT CERTIFICATE

DINEX Building Design Method

6 CONDITIONS AND LIMITATIONS OF USE

1. The Dinex Building Design Method is certified for creating site specific plans and specifications, as defined by section 7 of the Building Act 2004, for building consent applications, and post consent alterations, provided:
 - a. each page of the plans and specifications produced under this certificate and submitted for building consent shall bear the mark of conformity and certificate number, and the building consent application shall include a signed and dated DINEX Design Summary/Declaration, which includes a confirmation that producer statements have been provided by relevant engineers to Dinex,
 - b. each page of the plans and specifications produced under this certificate and submitted as a post-consent alteration shall bear the mark of conformity and certificate number, and shall include a signed and dated DINEX Design Summary/Declaration – Post Consent Alteration,
2. Compliance with Clauses E1.3.3 (e) and G13.3.3 is subject to the approvals of the relevant network utility operators for surface water drainage systems affecting an outfall, and connections to sewer.

NOTE: Together, items 3, 4, 5 and 6 define scope of use.

7 HEALTH AND SAFETY INFORMATION

The compliance with any manufacturer's installation instructions, maintenance, OH & S statements, MSDS's and other Health and Safety declarations will provide the necessary Health and Safety Information pertaining to the product.

8 SIGNATURES


Sam Guindi
Product Certification Manager

For and on behalf of
Bureau Veritas Australia Pty Ltd


Craig Wearne
Director

For and on behalf of
DINEX Ltd



PRODUCT CERTIFICATE

DINEX Building Design Method

SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

9	SUPPORTING INFORMATION ABOUT DESCRIPTION
Nil	
10	SUPPORTING INFORMATION ABOUT INTENDED USE
Swimming pool design and fencing of a swimming pool are excluded from the scope of this certificate.	
11	SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE
Nil	



PRODUCT CERTIFICATE

DINEX Building Design Method

12 BASIS FOR CERTIFICATION

- B1 Structure - By testing and comparison with Acceptable Solution B1/AS1, Verification Method B1/VM1 and referenced standard NASH Standard Part 2 Light Steel Framed Buildings
- B2 Durability - By comparison with Acceptable Solution B2/AS1 and Verification Method B2/VM1
- C2 Prevention of fire occurring - By analysis and comparison with Acceptable Solutions C/AS1 and C/AS2
- C3 Fire affecting areas beyond the fire source - By analysis and comparison with Acceptable Solution C/AS1 and C/AS2
- C4 Movement to place of safety - By analysis and comparison with Acceptable Solution C/AS1 and C/AS2
- C5 Access and safety for firefighting operations - By analysis and comparison with Acceptable Solution C/AS1 and C/AS2
- C6 Structural stability - By analysis and comparison with Acceptable Solution C/AS1 and C/AS2
- D1 Access - By analysis and comparison with Acceptable Solution D1/AS1
- D2 Mechanical installations for access - By analysis and comparison with Acceptable Solution D2/AS1
- E1 Surface water - By comparison with Acceptable Solution E1/AS1
- E2 External moisture - By comparison with Acceptable Solution E2/AS4
- E3 Internal moisture - By comparison with Acceptable Solution E3/AS1
- F2 Hazardous building materials - By comparison and analysis with the performance requirements of Code clause F2.3.1 and Acceptable Solution F2/AS1
- F4 Safety from falling - analysis and comparison with Acceptable Solution F4/AS1
- F7 Warning systems- analysis and comparison with Acceptable Solution F7/AS1
- G1 Personal hygiene- analysis and comparison with Acceptable Solution G1/AS1
- G2 Laundering - analysis and comparison with Acceptable Solution G2/AS1
- G3 Food preparation and prevention of contamination - analysis and comparison with Acceptable Solution G3/AS1
- G4 Ventilation - By analysis and comparison with Acceptable Solution G4/AS1
- G5 Interior environment – By analysis and comparison with Acceptable Solution G5/AS1
- G6 Airborne and impact sound - By analysis and comparison with Acceptable Solution G6/AS1
- G7 Natural light - By analysis and comparison with Acceptable Solution G7/AS1
- G8 Artificial light - By analysis and comparison with Acceptable Solution G8/AS1
- G9 Electricity - By analysis and comparison with Acceptable Solution G9/AS1
- G10 Piped services - By analysis and comparison with Acceptable Solution G10/AS1
- G11 Gas as an energy source - By analysis and comparison with Acceptable Solution G11/AS1
- G12 Water supplies - By analysis and comparison with Acceptable Solution G12/AS1
- G13 Foul water - By analysis and comparison with Acceptable Solution G13/AS1
- H1 Energy efficiency - By analysis and comparison with Acceptable Solution H1/AS1

PRODUCT CERTIFICATE

DINEX Building Design Method

13 SUPPORTING DOCUMENTATION FOR CERTIFICATION

1. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B1 Structure First edition (Amendment 19), 28 November 2019
2. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause B2 Durability (Amendment 12), 28 November 2019
3. C/JM1 Verification Method for Solid Fuel Appliances C/AS1 Acceptable Solution for Buildings with Sleeping (residential) and Outbuildings (Risk Group SH) For New Zealand Building Code Clauses C1-C6 Protection from Fire (Amendment 5), 5 November 2020
4. C/AS2 Acceptable Solution for Buildings other than Risk Group SH for New Zealand Building Code Clauses C1-C6 Protection from Fire First edition (Amendment 2), 5 November 2020
5. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause D1 Access Routes Second edition (Amendment 6), 1 January 2017
6. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause D2 Mechanical Installations for Access Second edition (Amendment 7), 1 January 2017
7. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause E1 Surface Water 1st Edition (Amendment 11), 5 November 2020
8. Verification Methods E2/AS1 and Acceptable Solutions E2/AS1, E2/AS2 and E2/AS3 for New Zealand Building Code Clause E2 External Moisture Third edition (Amendment 10), 5 November 2020
9. Acceptable Solution E2/AS4 Light steel framing weathertight solution for buildings up to 3 storeys or of 10m or less in height with a floor area not exceeding 300m², 28 November 2019
10. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause E3 Internal moisture 2nd edition (Amendment 7), 5 November 2020
11. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause F2 Hazardous building materials First edition (Amendment 3), 1 January 2017
12. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause F4 Safety from Falling Third edition (Amendment 2), 1 January 2017
13. Compliance Document for New Zealand Building Code Clause F7 Warning Systems 4th edition, 10 April 2012
14. Compliance Document for New Zealand Building Code Clause G1 Personal Hygiene Second Edition amendment 6, 10 October 2011
15. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause G2 Laundering First edition (Amendment 3), 1 January 2017
16. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause G3 Food Preparation and Prevention of Contamination First edition (Amendment 2), 1 January 2017
17. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause G4 Ventilation Fourth edition, 27 June 2019
18. Compliance Document for New Zealand Building Code Clause G5 Interior Environment First edition (Amendment 2), 10 October 2011
19. Compliance Document for New Zealand Building Code Clause G6 Airborne and Impact Sound First edition (Amendment 2), 1 December 1995
20. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause G7 Natural Light First edition (Amendment 2), 14 February 2014
21. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause G8 Artificial Light First edition (Amendment 2), 14 January 2014
22. Acceptable Solutions and Verification Methods for the New Zealand Building Code Clause G9 Electricity First edition (Amendment 7), 5 November 2020
23. Acceptable Solutions and Verification Methods For New Zealand Building Code Clauses G10 Piped Services, First edition (Amendment 8), 1 January 2017
24. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause G11 Gas as an Energy Source First edition (Amendment 6), 1 January 2017
25. Acceptable Solutions and Verification Methods Acceptable Solutions and Verification Methods For New Zealand Building Code Clause G12 Water Supplies Third edition (Amendment 12), 27 June 2019
26. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause G13 Foul Water Second edition (Amendment 9), 5 November 2020
27. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause H1 Energy Efficiency Fourth edition (Amendment 4), 28 November 2019
28. NASH Standard Part 2 Light Steel Framed Buildings 2019
29. NASH Envelope Solutions 2019
30. Peer Review of Lightweight Steel Frame Engineering Designs using Zog Steel Framing DBcon Consulting Engineers 21st June 2014

PRODUCT CERTIFICATE

DINEX Building Design Method

14 CONDITIONS RELATING TO NOTIFICATION

- (a) the certificate holder notifies the product certification body (Bureau Veritas) in writing of any intended change to any of the following particulars:
- (i) the name, address, or contact details of the certificate holder;
 - (ii) any address of a location where a certified product is produced or manufactured;
- (b) the certificate holder notifies the product certification body (Bureau Veritas) in writing of any intended change, modification, or alteration to any of the following:
- (i) the certified building method or product;
 - (ii) the method of its production or manufacture;
 - (iii) the product quality plan prepared in respect of the certified building method or product;
 - (iv) the application or installation instructions for the certified building method or product;
 - (v) any documentation relating to the use and maintenance of the certified building method or product;
- (c) if the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder notifies the product certification body (Bureau Veritas) in writing of the reason for that suspicion:
- (d) if the certificate holder or the product certification body (Bureau Veritas) finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder discloses that fact in disclosure statements published in a form that is acceptable to the product certification body and to the chief executive:
- (e) if the certificate is suspended or revoked, the certificate holder—
- (i) notifies all customers to whom the building method or product is regularly supplied; and
 - (ii) immediately ceases using the certificate, the mark of conformity, and any reference to the number of the certificate.

DINEX Design Summary/ Declaration

Project Bolton
Job code 97567
Job name Bolton



Address
Lot 180 DP 570913
28 Westbrook Avenue
West Village, Faringdon
Rolleston, Canterbury 7615

The building falls within the following Classified Use:
Housing (detached dwellings)

The building height is less than 10m: ACTUAL 5250

The risk E2/AS1 matrix is <20: ACTUAL 5

RISK CATEGORY

Wind Zone	High
Earthquake Zone	2
Exposure Zone	C
Climate Zone	3
Snowload	1.0kPa

The signatory of this declaration confirms that:

the plans and specifications have been prepared in accordance with the DINEX Building Design Method; and

there are no additional code obligations that are not covered by the Codemark Certificate CM70023.

the producer statements have been provided by relevant engineers to DINEX.

Dated: 28 May 2022

Approved Signatory of DINEX Limited

CRAIG WEARNE

File No.: 41390

14 April 2022

NDM Construction Ltd
3 Otley Street
Christchurch Central
CHRISTCHURCH 8013

Attention: Mary Jayne Johnson

Email: maryjayne.johnson@goldenhomes.co.nz

Dear Mary Jayne,

GEOTECHNICAL INVESTIGATION AND FOUNDATION RECOMMENDATION: 28 WESTBROOK AVENUE, WEST VILLAGE, FARINGDON, ROLLESTON (LOT 180 DP 570913)

Davis Ogilvie & Partners Ltd. (Davis Ogilvie) has been commissioned by NDM Construction Ltd. to undertake a shallow geotechnical investigation at 28 Westbrook Avenue, West Village, Rolleston. The aim of the investigation was to determine the underlying geology, ground bearing capacity and to provide foundation recommendations for a new residential dwelling on the lot.

1.0 SITE DESCRIPTION

The 450 m² lot is located on the western side of Westbrook Avenue, within Stage 2 of West Village, Faringdon Subdivision in Rolleston. West Village is situated 3.5 km south of central Rolleston. The lot is undeveloped and flat, and the surrounding lots are of similar size and elevation.

2.0 PUBLISHED INFORMATION

A review of published information has been undertaken for the site and surrounding area. A summary is presented in the following sections.

2.1. Geology and Hydrogeology

The published geology of the site has been identified as “brownish grey river alluvium” (Q2a)¹.

¹ Forsyth, P.J., Barrell, D.J.A., Jongens, R. (2008) (compilers), Geology of the Christchurch Area, Institute of Geological and Nuclear Sciences
Page 1 of 5

A nearby Environment Canterbury (ECan) monitoring well (M36/3884) located within Stage 2 of West Village recorded a ground water level of 5.8 m below pre-subdivision ground level. The soils recovered at this borehole are recorded as topsoil from the surface to 0.3 m followed by sandy gravel to 10 m, underlain by sand and clay-bound gravel to 30 m below ground level, the total depth of the bore. According to a November 2019 ENGEO report for Faringdon – Southeast², groundwater was recorded at depths of between 5.0 m and 12 m in surrounding boreholes.

2.2. Underlying Subdivision Report

The underlying geotechnical report for West Village (subdivision at 728 Selwyn Road, Faringdon, Rolleston)³ was prepared by ENGEO Limited in May 2017. ENGEO reported a consistent subsurface profile of topsoil up to 0.3 m thick overlying alluvial deposits comprising very stiff to hard silt and dense gravelly sand and sandy gravel.

With regards to technical category, the November 2019 ENGEO report states “*We therefore consider the site of the proposed subdivision to have Technical Category 1 (TC1) whereby future land damage from liquefaction is unlikely, and ground settlements are expected to be within normally accepted tolerances.*”

A December 2021 earthwork as-built fill plan prepared by Davie Lovell-Smith⁴ indicates up to 0.1 m has been cut and up to 0.2 m of engineered fill has been placed on the lot.

2.3. ECan Listed Land Use Register

The ECan Listed Land Use Register (LLUR) website⁵ indicates that the regional council has information regarding HAIL (Hazardous Activities and Industries List) activities within the subdivision area, which includes this site.

According to the LLUR several environmental investigations have been carried out, the most recent, a Soil Validation Report⁶ prepared by ENGEO in 2021. The LLUR summary for this report concludes that the site is “*Below guidelines values – residential*”

3.0 TESTING COMPLETED ONSITE

Shallow geotechnical testing including a hand dug test pit (TP) and Dynamic Cone Penetrometers (DCP) was undertaken by Davis Ogilvie on 23 March 2022 to a maximum depth of 0.6 m below Existing Ground Level (EGL). Testing locations are shown on the Geotechnical Site Plan (DWG G01A) attached to this report.

² ENGEO Ltd (27/11/2019) Geotechnical Summary Letter – Faringdon South East, Rolleston Christchurch, 12903.000.000_74

³ ENGEO Ltd (23/05/2017) Geotechnical Investigation, 728 Rolleston Road, Rolleston 12903.000.000_12

⁴ Davie Lovell-Smith (December 2021) South East Faringdon Stage 2, Earthfill As-built. Ref H.20242.AB.EW01. RO

⁵ ECan Listed Land Use Register, Available at <http://www.llur.ecan.govt.nz/> Accessed March 2022

⁶ ENGEO (2021) INV271816 Soil Validation Report – Southeast Faringdon, Selwyn Road, Rolleston.

3.1. Soil Testing Results

The general shallow soil profile indicated by the investigation, consisted of topsoil to 0.45 m overlying sandy silty gravel through to 0.6 m below EGL at which depth the shallow investigations were terminated due to refusal in very dense gravel. It is noted that 0.2 m of engineered fill has been placed across the majority of the site, with a small area in the northeast corner of up to 0.4 m of engineered fill⁴, however this material could not be visually distinguished from the encountered sandy gravel below the topsoil.

Summarised soil profiles are presented in Table 1. Logs and DCP test results are attached to this report.

Table 1: Summarised Soil Profile from Shallow Investigation				
Summary of Soil Type	DCP (blows/ 100 mm)	Relative Density	Depth Below EGL (m)	
			DCP 1**	DCP 2+TP
TOPSOIL	1 – 12	*	0.0 – 0.4	0.0 – 0.45
Sandy, Silty GRAVEL	30+	Very Dense	0.4 – 0.5***	0.45 – 0.6***
* Relative density not assigned to topsoil. ** Soil profile inferred from DCP testing and nearby logs. *** Maximum depth investigated by test pit/DCP.				

3.2. Groundwater

Groundwater was not encountered during the Davis Ogilvie shallow investigations. Groundwater levels will vary spatially and seasonally but is not expected at the shallow level the testing reached, as discussed in Section 2.1.

4.0 FOUNDATION RECOMMENDATIONS

Based on in-situ soil testing, 'Good Ground' (as defined by NZS 3604:2011) and a static geotechnical ultimate bearing capacity of 300 kPa⁷ was encountered below the organic topsoil from 0.45 m below EGL.

Davis Ogilvie anticipates a concrete slab is the preferred founding solution for the site. In this regard a tied NZS 3604:2011 slab is considered an appropriate founding solution for this TC1 classified lot.

For a building to comply with NZS 3604:2011, all organic topsoil and any other unsuitable material should be stripped from beneath the entire building footprint and subgrade inspections carried out by a Geoprofessional prior to foundation construction onsite.

⁷ Below organic topsoil. Defined by NZS 3604:2011.

Placement and testing of engineered fill, if required, must be carried out in accordance with NZS 4431:1989 "Code of Practice for Earth Fill for Residential Development".

5.0 GEOTECHNICAL INSPECTIONS REQUIRED DURING CONSTRUCTION

Prior to any fill placement or foundation construction, all excavations on site should be examined by a suitably qualified and experienced Geoprofessional. The Engineer must be competent to judge whether the exposed subsoils are compatible with the inferred conditions on which the report has been based. Should soft, suspect, or unsuitable conditions differing to those outlined in this report be encountered, the builder should contact Davis Ogilvie or a suitably qualified and experienced Engineer to confirm foundation requirements.

Please allow 24 hours' notice prior to inspections being required.

6.0 CLOSURE

Should you have any queries regarding this report or wish to arrange a subgrade inspection at the time of construction, please contact the undersigned.

Yours faithfully

DAVIS OGILVIE & PARTNERS LTD.



Prepared By:

KELLY LYONS

Graduate Engineering Geologist

BSc

Email: kellyl@do.nz



Reviewed By:

BJORN RAASCH

Principal Engineering Geologist

BSc (Hons), CMEngNZ (PEngGeol)

Email: bjorn@do.nz

Enclosed:

Geotechnical Site Plan (DWG G01A)

2 x DCP + 1 x Hand Excavated TP Logs

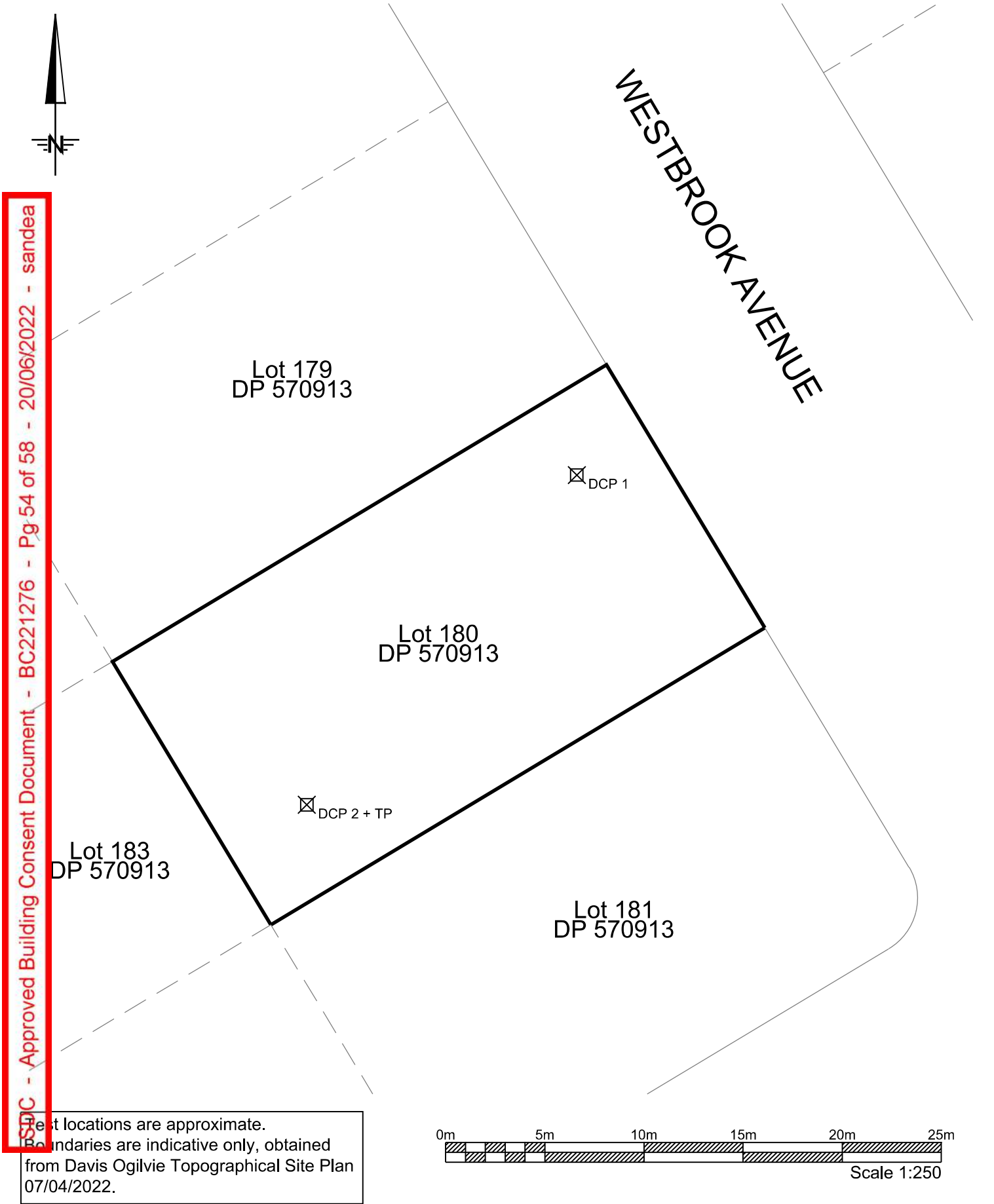
Limitations

Davis Ogilvie did not complete an assessment of all possible conditions or circumstances that may exist at the site. The report and findings are based on the information provided. Conditions may exist which were undetectable given the limited investigation of the site. Variations in conditions may occur, and there may be conditions onsite which have not been revealed by the investigation, which have not been taken into account in the report. No warranty is included—either expressed or implied—that the actual conditions will conform to the assessments contained in this report. If any unexpected suspect soils are encountered during earthworks onsite, Davis Ogilvie should be notified to confirm or reassess the foundation recommendations.

This report has been prepared solely for the purposes of NDM Construction Ltd. The information contained herein is confidential, and shall not be passed on to any third party without prior written permission of Davis Ogilvie & Partners Ltd. No responsibility is accepted for any use outside the scope of this report. This report does not cover suitability of the site (e.g., flooding), or potential future liquefaction.

Important Notice:

Information included in this report was obtained/created from maps and/or data extracted from the New Zealand Geotechnical Database (www.nzgd.org.nz), which were prepared and/or compiled for the Earthquake Commission (EQC) to assist in assessing insurance claims made under the Earthquake Commission Act 1993. The source maps and data were not intended for any other purpose. EQC and its engineers, Tonkin & Taylor, have no liability for any use of the maps and data or for the consequences of any person relying on them in any way.



CAD ref: 41390.GeotechnicalSitePlan



Geotechnical Site Plan
28 Westbrook Avenue
West Village, Rolleston
Lot 180 DP 570913

/ design	/ drawn	/ QA check	/ dwg
IZ	TM	KL	G01
/ scale @ A4	/ date	/ file	/ issue
1:250	4/22	41390	A

Project: 28 Westbrook Avenue, West Village, Rolleston (Lot 180)

Client: NDM Construction Ltd

Test Location: Refer to attached Geotechnical Site Plan (G01A)

Date: 23/03/22

Time: 11:00 am

Excavation Method: Hand Ex + DCP

DEPTH (m)	STRATA DESCRIPTION	USCS	Graphic Log	Water Table	BLOWS / 100 mm																		DEPTH (m)
	Test Pit at DCP 2				DCP 2									DCP 1									
					1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	
	SILT with trace sand and some gravel; greyish brown. Moist, contains roots and rootlets. Sand is fine. Gravel is fine to medium, subrounded to rounded greywacke (TOPSOIL). [0.45m]	TS		Groundwater Not Encountered																			
0.5	Sandy, silty fine to coarse GRAVEL; dark greyish brown. Very dense, moist. Sand is fine. [0.15m]				GM																		
	Test Pit terminated at 0.60m - Refusal on gravel.																						
1.0																							

Logged By: IZ
Plotted By: KL
Checked By: CSB

Notes:

Dynamic Penetrometer Test and logs give an indication of the ground condition at the location of the tests only. While they are representative of typical conditions across the site, they do not identify variations in the ground away from the test locations. This log does not cover slope stability or suitability of the site for building.

Dynamic Cone Penetrometer Test performed in accordance with NZS 4402 Test 6.5.2 (Procedure 1 and 2)

Peter Hansen DRAINAGE LTD.

STORMWATER LOADING DESIGN

GOLDEN HOMES- BOLTON res 27/5/21

LOT 180-DP 524389- WEST VILLAGE FARINGDON

- ROLLESTON

Design by Peter Hansen-

Design consultant/Manager

Test Hole Results

The following at Farrington Rolleston-lots 947 Hungerford, Lot 917 Ridgeway ave, Lot 49 Tobbilie dr, Lots 62,34,83 Thornborgh- The following results were found from test holes 1.5-2m in depth. 100 – 300mm topsoil, 800mm-1m tight sand and stones, 300-500mm sand+stones (loose)

Percolation Results

20 litres of water was disposed into the base of these soak holes over 30 seconds. This equates to 2,400 litres per hour.

Generally, where the test results show a soakage rate of greater than 500mm/hr, soakage rather than storage will be the main mechanism to remove the water. **This method is applicable to this site. Alternative Solution.**

Ecan Well Search

Within a parameter of 1km of the site the highest groundwater reading is 9.69 below ground. Well number M36/0028 .

Loading

Roof Area	=	193.3m/2	x	30.44mm/hr	=	5.79m/3 hr
Driveway area	=	29.8m/2	x	30.4mm/hr	=	0.89m/3 hr

Total 6.68m/3 hr

Driveway Sump

Type 1 sump off strip drain as shown on site plan. (As per E1 Figure 8 with capacity for silt settlement and a trapped outlet).

Soak Hole Specification

SOAKHOLE NUMBER - AREA BEING SERVICED - DIMENSION OF SOAKHOLE (WIDTHXLENGTHXDEPTH)

SOAKHOLE 1 223.10 m2 1500mm x 2500mm x1500-2500mm

As per plan set. Soak hole to be confirmed on site.**Depth of a soak hole to be confirmed on site by confirming percolation. To be in accordance with the Engineering code of practice extending into free drainage gravel by a minimum of 1M.**

Soak holes must comply with the setback rule of any foundation including neighbouring houses – E1 – 3.9.7 and figure 14.

Peter Hansen DRAINAGE LTD.

Soak hole spec

E.X.G.L

