

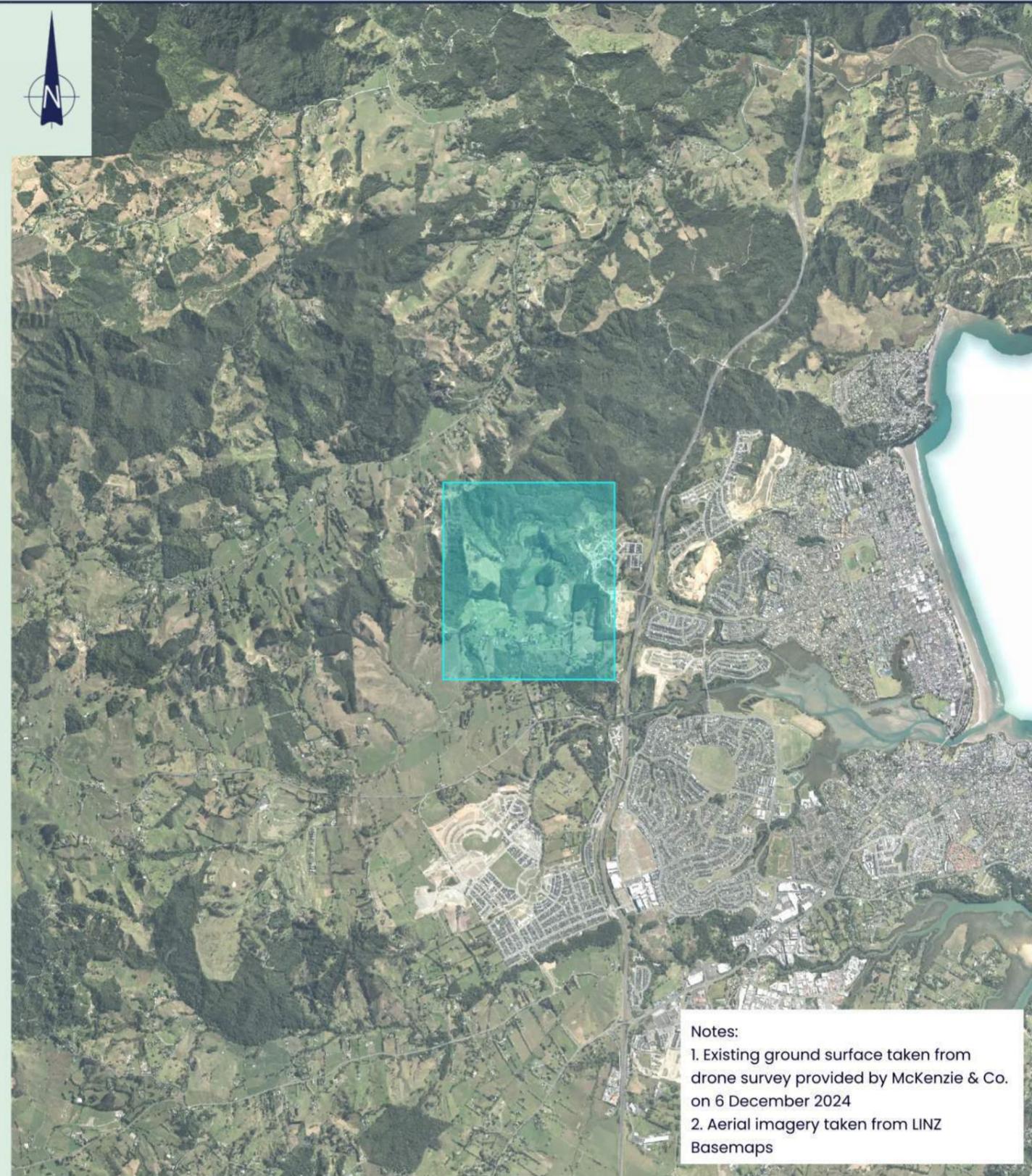
The background is a solid teal color. On the left side, there are several large, abstract geometric shapes. A white circle is partially visible at the top left. A thick, dark blue curved line starts from the top left and curves downwards and to the right. A white curved shape is at the bottom left. A thick, dark blue horizontal line extends from the left towards the right, positioned below the dark blue curved line.

# Appendix I

## Riley Sketches

FOR INFORMATION/NOT FOR CONSTRUCTION

Sketch Number	Sketch Title	Revision	Rev Date
001	Drawing List and Locality Plan	B	2025-12-19
100	Overview Site Plan	B	2025-12-19
110	Geotechnical Site Plan - Sheet 1 of 15	B	2025-12-19
111	Geotechnical Site Plan - Sheet 2 of 15	B	2025-12-19
112	Geotechnical Site Plan - Sheet 3 of 15	B	2025-12-19
113	Geotechnical Site Plan - Sheet 4 of 15	B	2025-12-19
114	Geotechnical Site Plan - Sheet 5 of 15	B	2025-12-19
115	Geotechnical Site Plan - Sheet 6 of 15	B	2025-12-19
116	Geotechnical Site Plan - Sheet 7 of 15	C	2025-12-19
117	Geotechnical Site Plan - Sheet 8 of 15	B	2025-12-19
118	Geotechnical Site Plan - Sheet 9 of 15	B	2025-12-19
119	Geotechnical Site Plan - Sheet 10 of 15	C	2025-12-19
120	Geotechnical Site Plan - Sheet 11 of 15	C	2025-12-19
121	Geotechnical Site Plan - Sheet 12 of 15	C	2025-12-19
122	Geotechnical Site Plan - Sheet 13 of 15	B	2025-12-19
123	Geotechnical Site Plan - Sheet 14 of 15	B	2025-12-19
124	Geotechnical Site Plan - Sheet 15 of 15	B	2025-12-19
130	Approximate Extent of Rock Cuts at Finished Level	B	2025-12-19
131	Geological Map	B	2025-12-19
140	Geotechnical Remedials Overview Plan	B	2025-12-19
141	Geotechnical Remedials Plan - Sheet 1 of 4	F	2025-12-19
142	Geotechnical Remedials Plan - Sheet 2 of 4	F	2025-12-19
143	Geotechnical Remedials Plan - Sheet 3 of 4	D	2025-12-19
144	Geotechnical Remedials Plan - Sheet 4 of 4	D	2025-12-19
160	Geotechnical Cross Sections - A & B	B	2025-12-19
161	Geotechnical Cross Sections - C & D	B	2025-12-19
162	Geotechnical Cross Sections - E & F	B	2025-12-19
163	Geotechnical Cross Sections - G & H	B	2025-12-19
164	Geotechnical Cross Sections - I & J	B	2025-12-19
165	Geotechnical Cross Sections - K & L	B	2025-12-19
166	Geotechnical Cross Sections - M & N	B	2025-12-19
167	Geotechnical Cross Sections - O & P	B	2025-12-19
168	Geotechnical Cross Sections - Q & R	B	2025-12-19
169	Geotechnical Cross Sections - S & T	B	2025-12-19
170	Geotechnical Cross Sections - U & V	B	2025-12-19
171	Geotechnical Cross Sections - W & X	B	2025-12-19
172	Geotechnical Cross Sections - Y & Z	B	2025-12-19
173	Geotechnical Cross Sections - AA & AB	B	2025-12-19
174	Geotechnical Cross Sections - AC & AD	B	2025-12-19
175	Geotechnical Cross Sections - AE & AF	A	2025-12-19
176	Geotechnical Cross Sections - AG & AH	A	2025-12-19
177	Geotechnical Cross Section - AI	A	2025-12-19
180	Investigation and Geological Features Plan - Overview	B	2025-12-19
181	Investigation and Geological Features Plan - Sheet 1 of 4	B	2025-12-19
182	Investigation and Geological Features Plan - Sheet 2 of 4	B	2025-12-19
183	Investigation and Geological Features Plan - Sheet 3 of 4	B	2022-12-19
184	Investigation and Geological Features Plan - Sheet 4 of 4	B	2025-12-19
185	Investigation and Proposed Cut/Fill Plan - Overview	B	2025-12-19
186	Investigation and Proposed Cut/Fill Plan - Sheet 1 of 4	B	2025-12-19
187	Investigation and Proposed Cut/Fill Plan - Sheet 2 of 4	B	2025-12-19
188	Investigation and Proposed Cut/Fill Plan - Sheet 3 of 4	B	2025-12-19
189	Investigation and Proposed Cut/Fill Plan - Sheet 4 of 4	B	2025-12-19
190	Cut/Fill Plan Showing Areas for Future Investigation - Sheet 1 of 4	B	2025-12-19
191	Cut/Fill Plan Showing Areas for Future Investigation - Sheet 2 of 4	B	2025-12-19
192	Cut/Fill Plan Showing Areas for Future Investigation - Sheet 3 of 4	B	2025-12-19
193	Cut/Fill Plan Showing Areas for Future Investigation - Sheet 4 of 4	B	2025-12-19
195	Existing Topsoil Contours - Overview	B	2025-12-19
196	Existing Topsoil Contours - Sheet 1 of 4	B	2025-12-19
197	Existing Topsoil Contours - Sheet 2 of 4	B	2025-12-19
198	Existing Topsoil Contours - Sheet 3 of 4	B	2025-12-19
199	Existing Topsoil Contours - Sheet 4 of 4	B	2025-12-19



**Notes:**  
 1. Existing ground surface taken from drone survey provided by McKenzie & Co. on 6 December 2024  
 2. Aerial imagery taken from LINZ Basemaps

### Locality Plan

SCALE: 1:50000

Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:50000



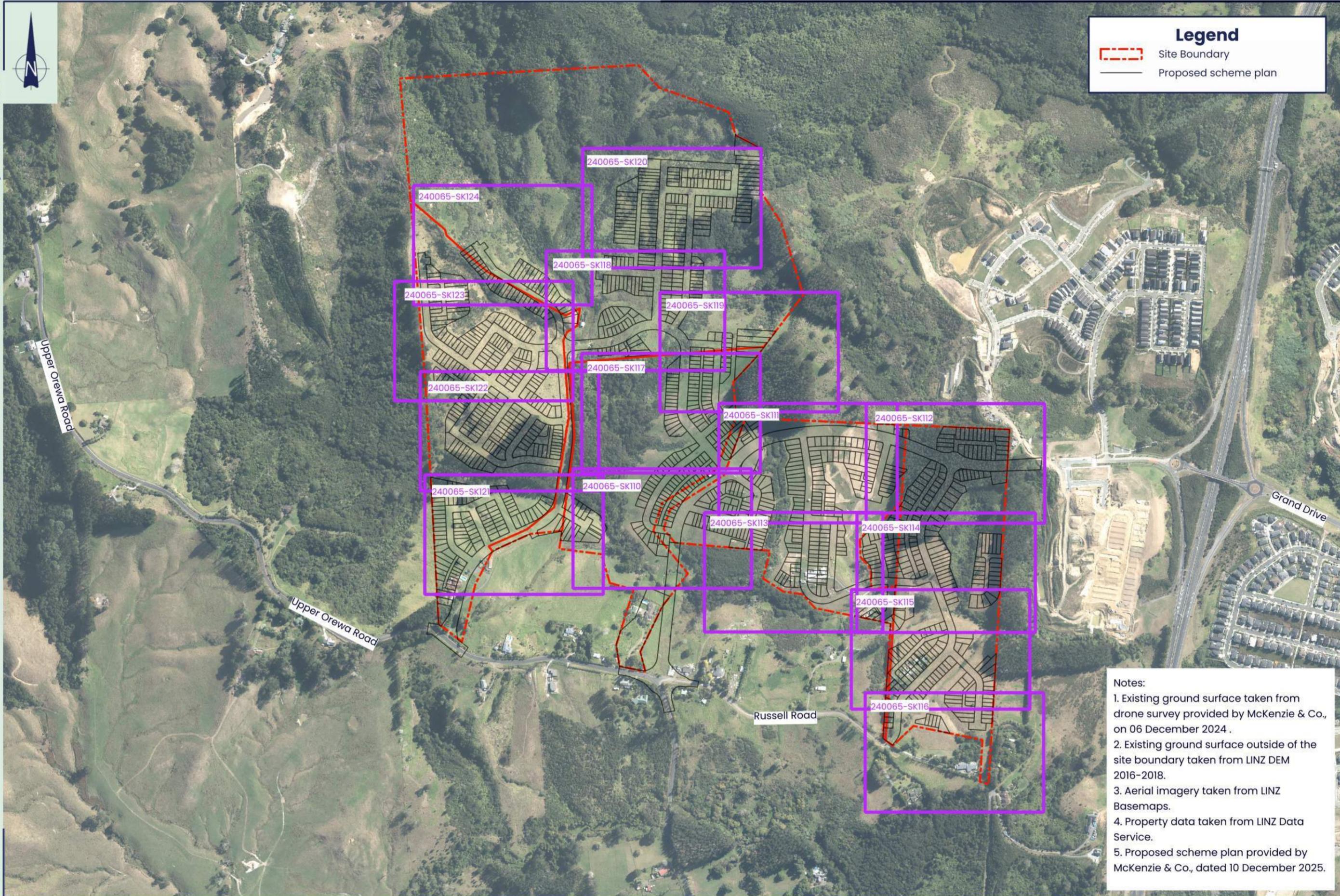
**Vineway Ltd**  
 Russell Road, Wainui - Delmore  
 Drawing List and Locality Plan

**Sketch: 240065-SK001 (Rev B)**  
 Drawn By JAC | Checked By JLB  
 Approved By BB | 19/12/2025

FOR INFORMATION/NOT FOR CONSTRUCTION



Scale: 1:7500 (A3)  
0 100 200 300 400 m



**Legend**

-  Site Boundary
-  Proposed scheme plan

- Notes:
1. Existing ground surface taken from drone survey provided by McKenzie & Co., on 06 December 2024 .
  2. Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
  3. Aerial imagery taken from LINZ Basemaps.
  4. Property data taken from LINZ Data Service.
  5. Proposed scheme plan provided by McKenzie & Co., dated 10 December 2025.

Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:7500

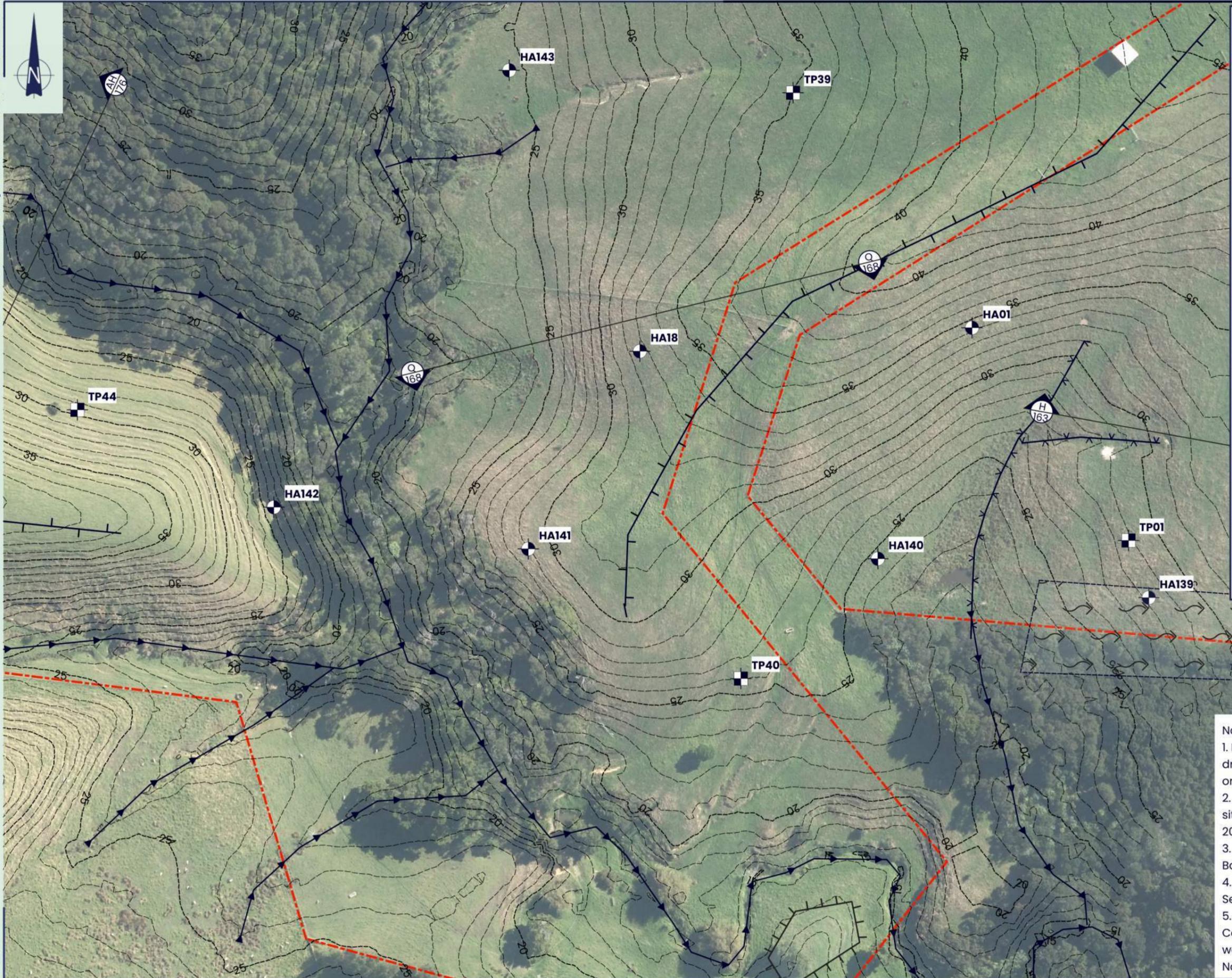


**Vineway Ltd**  
**Russell Road, Wainui - Delmore**  
**Overview Site Plan**

**Sketch: 240065-SK100 (Rev B)**  
Drawn By JAC | Checked By JLB  
Approved By BB | 19/12/2025

FOR INFORMATION/NOT FOR CONSTRUCTION

Scale: 1:1000 (A3)



Legend	
	Hand Auger
	Test Pits
	Machine Holes
	Existing Major Contours (5m Interval)
	Existing Minor Contours (1m Interval)
	Site Boundary
	Property Boundaries
	Reeds
	Depression
	Mound
	Hummocky
	Soil Creep
	Scarp
	Scarp (Inferred)
	Scarp (Assumed)
	Top of Slope
	Bottom of Slope
	Benching
	Water Course
	Ridge Line
	Contact
	Gully
	Liation

Notes:

- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024
- Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018
- Aerial imagery taken from LINZ Basemaps
- Property data taken from LINZ Data Service
- Geomorphology mapped by Riley Consultants' Geologists during site walkovers on 08 April 2024 and 08 November 2024

Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000



Vineway Ltd  
 Russell Road, Wainui - Delmore  
 Geotechnical Site Plan - Sheet 1 of 15

Sketch: 240065-SK110 (Rev B)  
 Drawn By JAC | Checked By JLB  
 Approved By BB | 19/12/2025

FOR INFORMATION/NOT FOR CONSTRUCTION



Scale: 1:1000 (A3)  
0 20 40 60 80 m



Legend	
	Hand Auger
	Test Pits
	Machine Holes
	Existing Major Contours (5m Interval)
	Existing Minor Contours (1m Interval)
	Site Boundary
	Property Boundaries
	Reeds
	Depression
	Mound
	Hummocky
	Soil Creep
	Scarp
	Scarp (Inferred)
	Scarp (Assumed)
	Top of Slope
	Bottom of Slope
	Benching
	Water Course
	Ridge Line
	Contact
	Gully
	Liation

Notes:

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- Aerial imagery taken from LINZ Basemaps
- Property data taken from LINZ Data Service
- Geomorphology mapped by Riley Consultants' Geologists during site walkovers on 08 April 2024 and 08 November 2024



Vineway Ltd  
 Russell Road, Wainui - Delmore  
 Geotechnical Site Plan - Sheet 2 of 15

Sketch: 240065-SK111 (Rev B)  
 Drawn By JAC | Checked By JLB  
 Approved By BB | 19/12/2025

Project Number: 240065 | Drawn by aboyd | Date printed: 17/12/2025 | Scale: 1:1000

FOR INFORMATION/NOT FOR CONSTRUCTION

Scale: 1:1000 (A3)  
0 20 40 60 80 m



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Existing Major Contours (5m Interval)
- Existing Minor Contours (1m Interval)
- Site Boundary
- Property Boundaries
- Reeds
- Depression
- Mound
- Hummocky
- Soil Creep
- Scarp
- Scarp (Inferred)
- Scarp (Assumed)
- Top of Slope
- Bottom of Slope
- Benching
- Water Course
- Ridge Line
- Contact
- Gully
- Lination

Notes:

- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024
- Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018
- Aerial imagery taken from LINZ Basemaps
- Property data taken from LINZ Data Service
- Geomorphology mapped by Riley Consultants' Geologists during site walkovers on 08 April 2024 and 08 November 2024



Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000

FOR INFORMATION/NOT FOR CONSTRUCTION

Scale: 1:1000 (A3)  
0 20 40 60 80 m



Legend	
	Hand Auger
	Test Pits
	Machine Holes
	Existing Major Contours (5m Interval)
	Existing Minor Contours (1m Interval)
	Site Boundary
	Property Boundaries
	Reeds
	Depression
	Mound
	Hummocky
	Soil Creep
	Scarp
	Scarp (Inferred)
	Scarp (Assumed)
	Top of Slope
	Bottom of Slope
	Benching
	Water Course
	Ridge Line
	Contact
	Gully
	Lination

Notes:

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- Property data taken from LINZ Data Service
- Geomorphology mapped by Riley Consultants' Geologists during site walkovers on 08 April 2024 and 08 November 2024

Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000



FOR INFORMATION/NOT FOR CONSTRUCTION

Scale: 1:1000 (A3)  
80 m  
60  
40  
20  
0



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Existing Major Contours (5m Interval)
- Existing Minor Contours (1m Interval)
- Site Boundary
- Property Boundaries
- Reeds
- Depression
- Mound
- Hummocky
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Notes:

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Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000

FOR INFORMATION/NOT FOR CONSTRUCTION



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Existing Major Contours (5m Interval)
- Existing Minor Contours (1m Interval)
- Site Boundary
- Property Boundaries
- Reeds
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- Hummocky
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- Scarp
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Scale: 1:1000 (A3)  
80 m  
60  
40  
20  
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Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000

FOR INFORMATION/NOT FOR CONSTRUCTION



Scale: 1:1000 (A3)  
0 20 40 60 80 m



Legend	
	Hand Auger
	Test Pits
	Machine Holes
	Existing Major Contours (5m Interval)
	Existing Minor Contours (1m Interval)
	Site Boundary
	Property Boundaries
	Reeds
	Depression
	Mound
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	Soil Creep
	Scarp
	Scarp (Inferred)
	Scarp (Assumed)
	Top of Slope
	Bottom of Slope
	Benching
	Water Course
	Ridge Line
	Contact
	Gully
	Lination

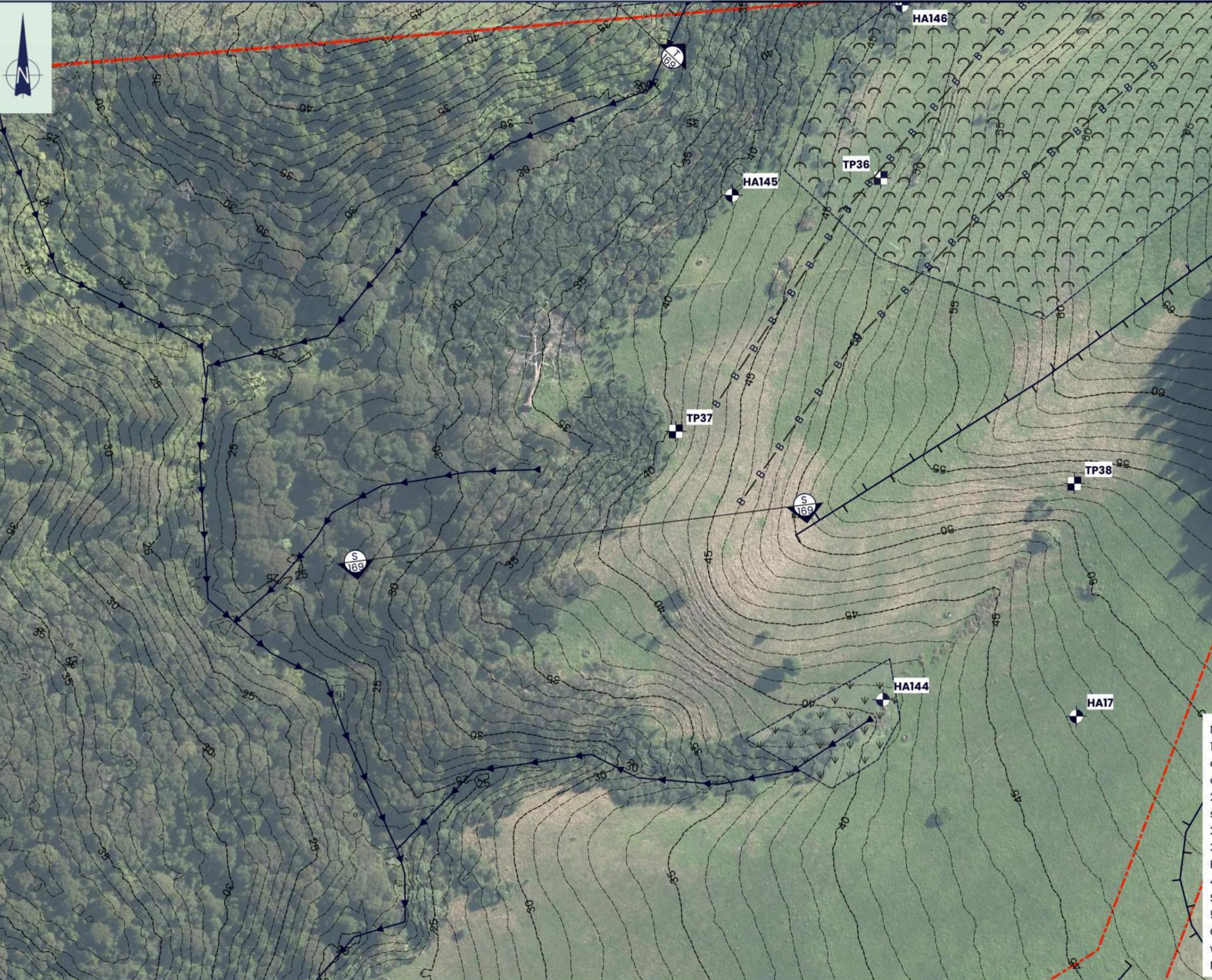
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Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000

FOR INFORMATION/NOT FOR CONSTRUCTION



Legend	
	Hand Auger
	Test Pits
	Machine Holes
	Existing Major Contours (5m Interval)
	Existing Minor Contours (1m Interval)
	Site Boundary
	Property Boundaries
	Reeds
	Depression
	Mound
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	Scarp
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	Scarp (Assumed)
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	Water Course
	Ridge Line
	Contact
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Notes:

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- Geomorphology mapped by Riley Consultants' Geologists during site walkovers on 08 April 2024 and 08 November 2024

Scale: 1:1000 (A3)  
0 20 40 60 80 m



Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000

FOR INFORMATION/NOT FOR CONSTRUCTION



Legend	
	Hand Auger
	Test Pits
	Machine Holes
	Existing Major Contours (5m Interval)
	Existing Minor Contours (1m Interval)
	Site Boundary
	Property Boundaries
	Reeds
	Depression
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	Gully
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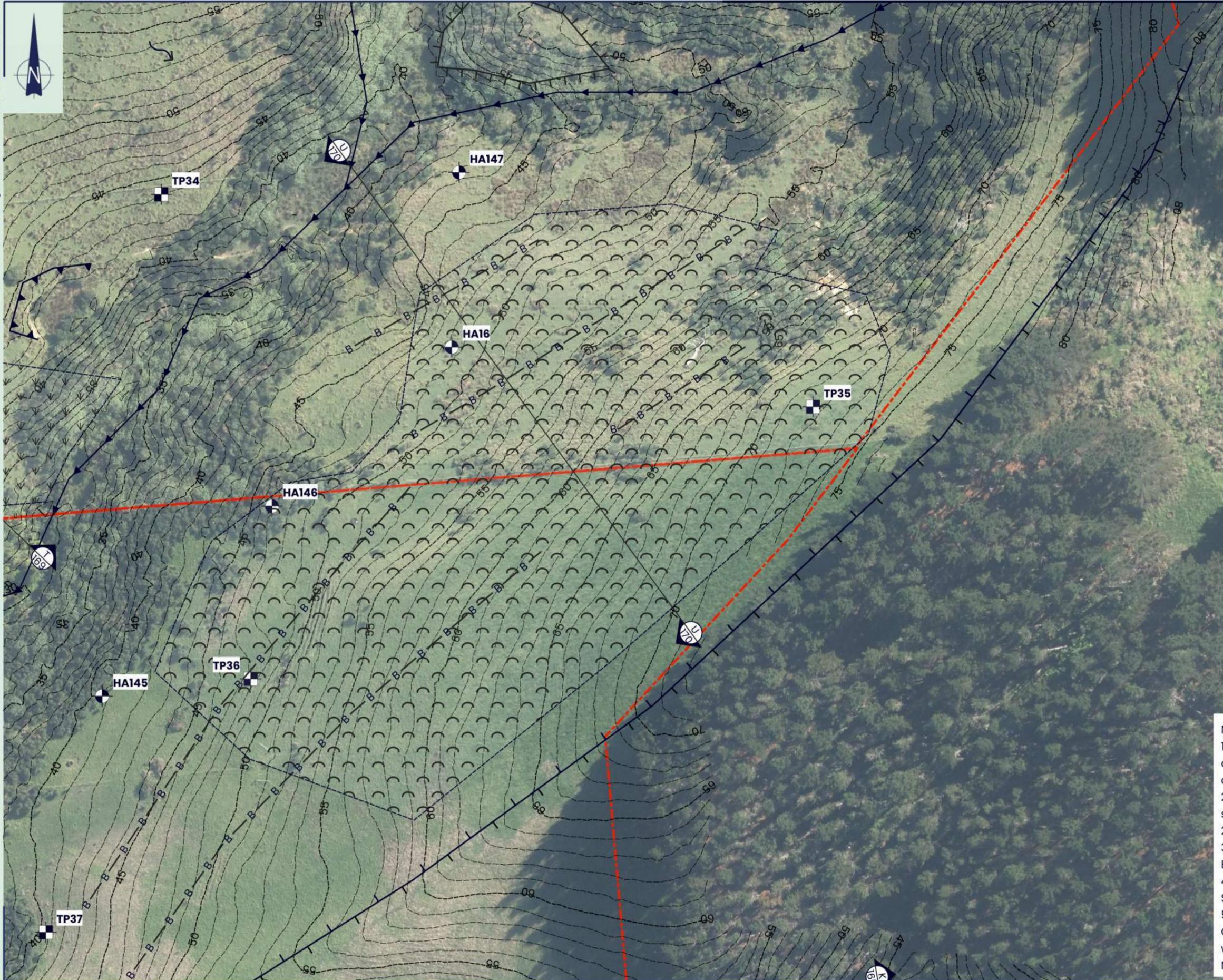
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Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000

FOR INFORMATION/NOT FOR CONSTRUCTION

Scale: 1:1000 (A3)  
80 m  
60  
40  
20  
0



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Existing Major Contours (5m Interval)
- Existing Minor Contours (1m Interval)
- Site Boundary
- Property Boundaries
- Reeds
- Depression
- Mound
- Hummocky
- Soil Creep
- Scarp
- Scarp (Inferred)
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- Water Course
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- Contact
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Notes:

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5. Geomorphology mapped by Riley Consultants' Geologists during site walkovers on 08 April 2024 and 08 November 2024

Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000

FOR INFORMATION/NOT FOR CONSTRUCTION

Scale: 1:1000 (A3)

0 20 40 60 80 m



Legend	
	Hand Auger
	Test Pits
	Machine Holes
	Existing Major Contours (5m Interval)
	Existing Minor Contours (1m Interval)
	Site Boundary
	Property Boundaries
	Reeds
	Depression
	Mound
	Hummocky
	Soil Creep
	Scarp
	Scarp (Inferred)
	Scarp (Assumed)
	Top of Slope
	Bottom of Slope
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	Water Course
	Ridge Line
	Contact
	Gully
	Liation

Notes:

- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024
- Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018
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- Property data taken from LINZ Data Service
- Geomorphology mapped by Riley Consultants' Geologists during site walkovers on 08 April 2024 and 08 November 2024

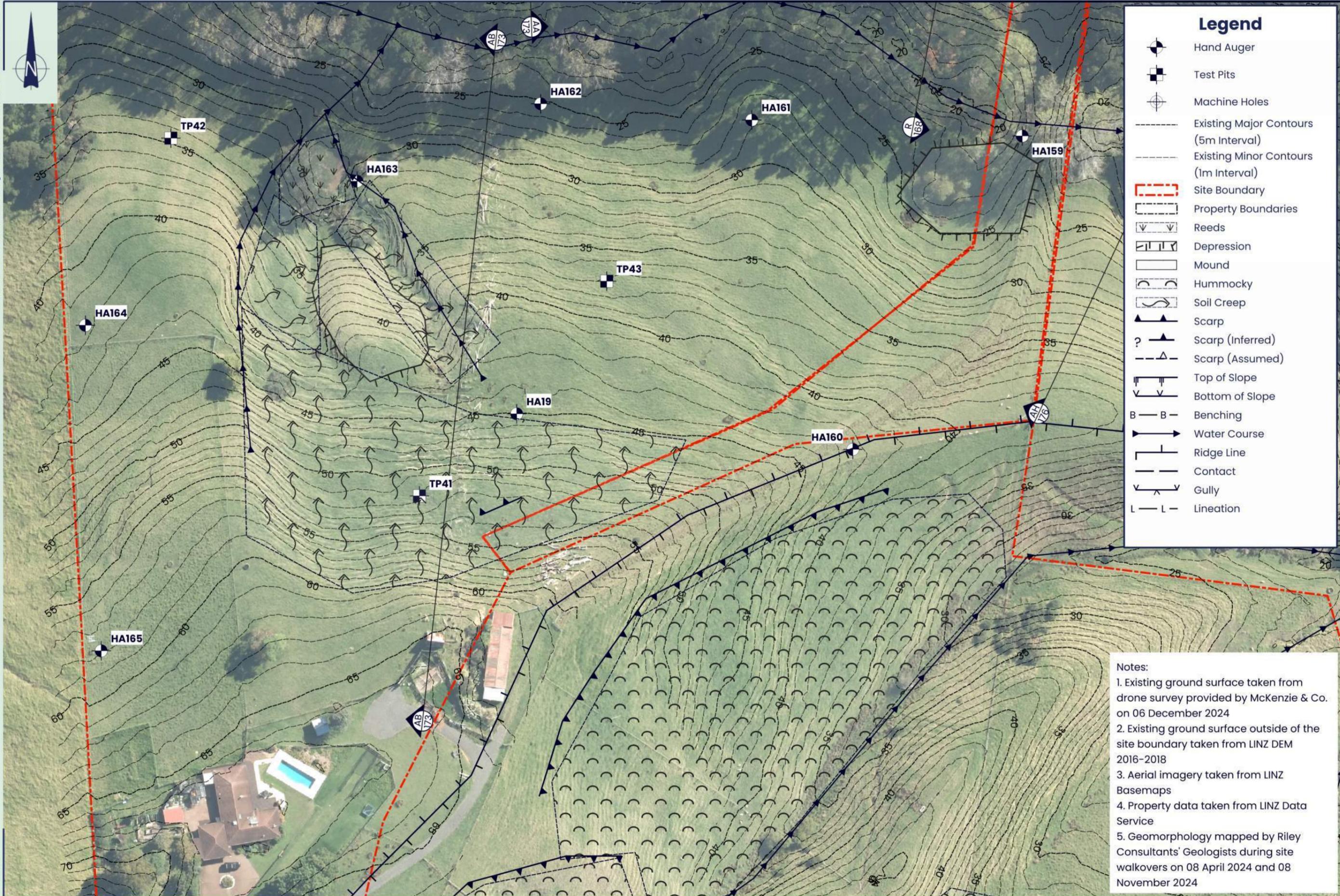
Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000



FOR INFORMATION/NOT FOR CONSTRUCTION



Scale: 1:1000 (A3)  
0 20 40 60 80 m



**Legend**

- Hand Auger
- Test Pits
- Machine Holes
- Existing Major Contours (5m Interval)
- Existing Minor Contours (1m Interval)
- Site Boundary
- Property Boundaries
- Reeds
- Depression
- Mound
- Hummocky
- Soil Creep
- Scarp
- Scarp (Inferred)
- Scarp (Assumed)
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- Bottom of Slope
- Benching
- Water Course
- Ridge Line
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- Gully
- Lienation

**Notes:**

1. Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024
2. Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018
3. Aerial imagery taken from LINZ Basemaps
4. Property data taken from LINZ Data Service
5. Geomorphology mapped by Riley Consultants' Geologists during site walkovers on 08 April 2024 and 08 November 2024

Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000



**Vineway Ltd**  
**Russell Road, Wainui - Delmore**  
 Geotechnical Site Plan - Sheet 12 of 15

**Sketch: 240065-SK121 (Rev C)**  
 Drawn By JAC | Checked By JLB  
 Approved By BB | 19/12/2025

FOR INFORMATION/NOT FOR CONSTRUCTION



Scale: 1:1000 (A3)  
0 20 40 60 80 m



Legend	
	Hand Auger
	Test Pits
	Machine Holes
	Existing Major Contours (5m Interval)
	Existing Minor Contours (1m Interval)
	Site Boundary
	Property Boundaries
	Reeds
	Depression
	Mound
	Hummocky
	Soil Creep
	Scarp
	Scarp (Inferred)
	Scarp (Assumed)
	Top of Slope
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	Water Course
	Ridge Line
	Contact
	Gully
	Liation

Notes:

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- Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018
- Aerial imagery taken from LINZ Basemaps
- Property data taken from LINZ Data Service
- Geomorphology mapped by Riley Consultants' Geologists during site walkovers on 08 April 2024 and 08 November 2024

Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000



Vineway Ltd  
 Russell Road, Wainui - Delmore  
 Geotechnical Site Plan - Sheet 13 of 15

Sketch: 240065-SK122 (Rev B)  
 Drawn By JAC | Checked By JLB  
 Approved By BB | 19/12/2025

FOR INFORMATION/NOT FOR CONSTRUCTION



Scale: 1:1000 (A3)  
0 20 40 60 80 m



Legend	
	Hand Auger
	Test Pits
	Machine Holes
	Existing Major Contours (5m Interval)
	Existing Minor Contours (1m Interval)
	Site Boundary
	Property Boundaries
	Reeds
	Depression
	Mound
	Hummocky
	Soil Creep
	Scarp
	Scarp (Inferred)
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	Top of Slope
	Bottom of Slope
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	Water Course
	Ridge Line
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	Gully
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Notes:

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Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000



Vineway Ltd  
Russell Road, Wainui - Delmore  
Geotechnical Site Plan - Sheet 14 of 15

Sketch: 240065-SK123 (Rev B)  
Drawn By JAC | Checked By JLB  
Approved By BB | 19/12/2025

FOR INFORMATION/NOT FOR CONSTRUCTION



Scale: 1:1000 (A3)  
0 20 40 60 80 m



Legend	
	Hand Auger
	Test Pits
	Machine Holes
	Existing Major Contours (5m Interval)
	Existing Minor Contours (1m Interval)
	Site Boundary
	Property Boundaries
	Reeds
	Depression
	Mound
	Hummocky
	Soil Creep
	Scarp
	Scarp (Inferred)
	Scarp (Assumed)
	Top of Slope
	Bottom of Slope
	Benching
	Water Course
	Ridge Line
	Contact
	Gully
	Lination

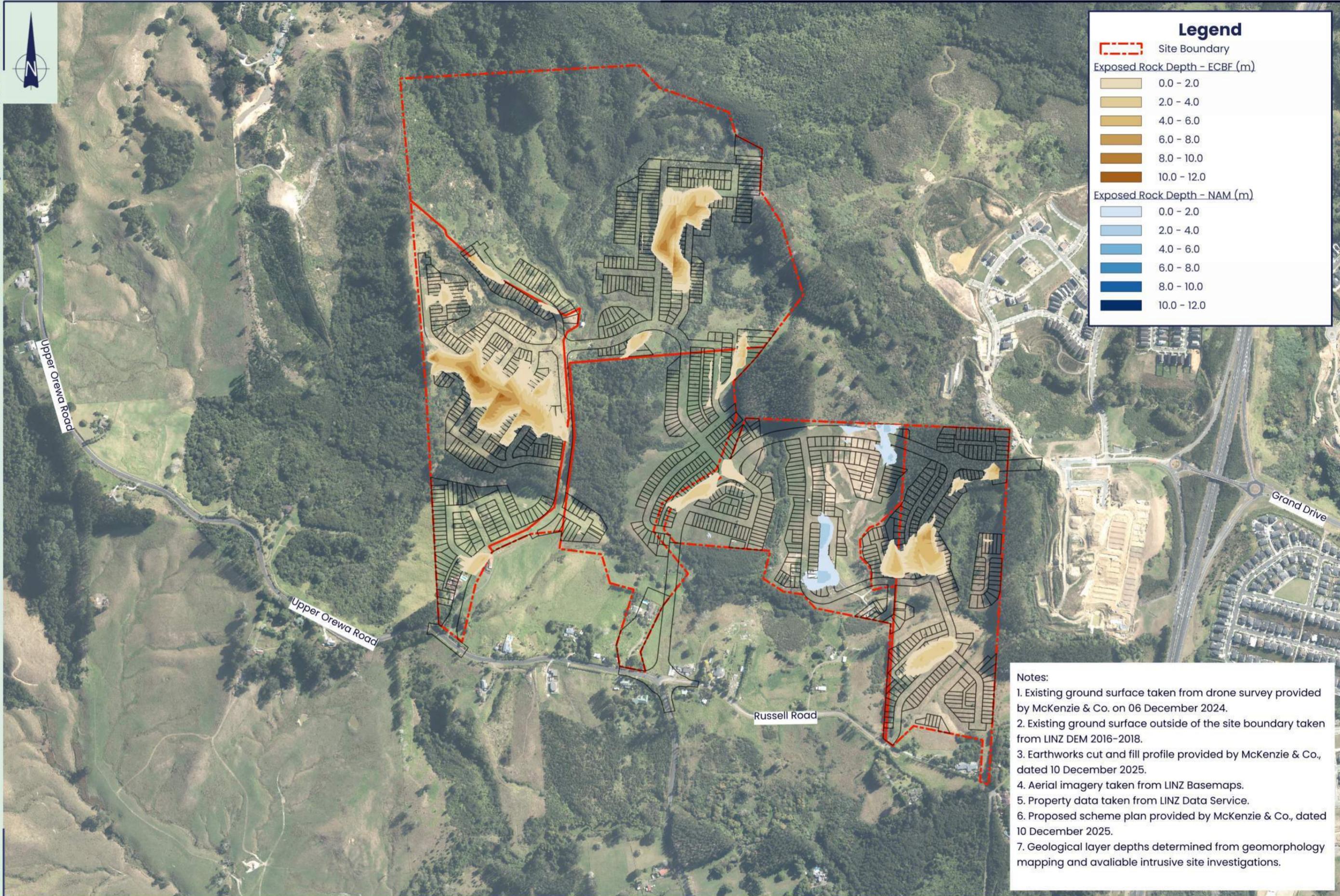
Notes:

- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024
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Project Number: 240065 | Drawn by aboyd | Date printed: 05/12/2025 | Scale: 1:1000



FOR INFORMATION/NOT FOR CONSTRUCTION



**Legend**

Site Boundary

Exposed Rock Depth - FCBF (m)

	0.0 - 2.0
	2.0 - 4.0
	4.0 - 6.0
	6.0 - 8.0
	8.0 - 10.0
	10.0 - 12.0

Exposed Rock Depth - NAM (m)

	0.0 - 2.0
	2.0 - 4.0
	4.0 - 6.0
	6.0 - 8.0
	8.0 - 10.0
	10.0 - 12.0

- Notes:**
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Aerial imagery taken from LINZ Basemaps.
  - Property data taken from LINZ Data Service.
  - Proposed scheme plan provided by McKenzie & Co., dated 10 December 2025.
  - Geological layer depths determined from geomorphology mapping and available intrusive site investigations.

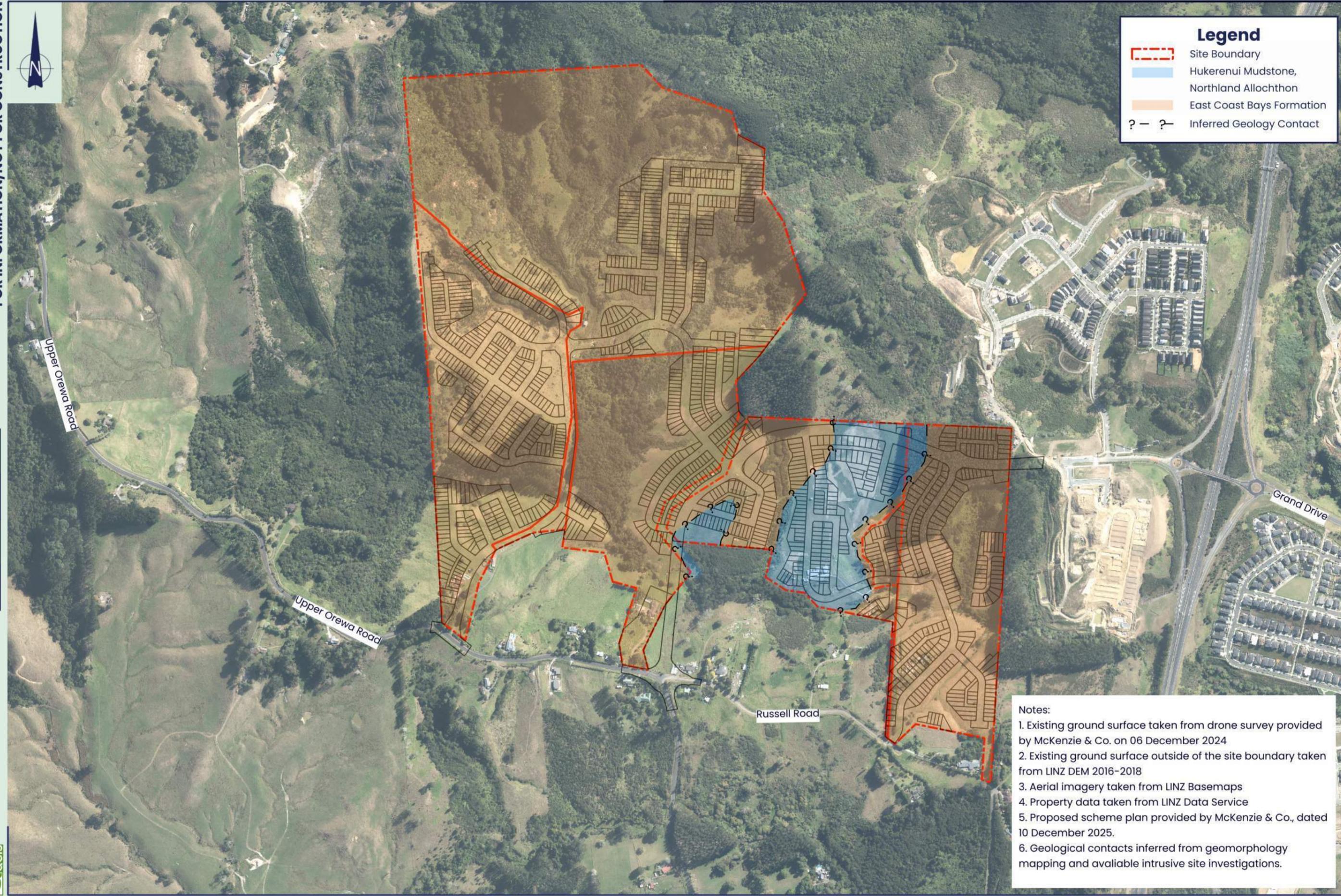
Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:7500



**Vineway Ltd**  
**Russell Road, Wainui - Delmore**  
**Approximate Extent of Rock Cuts at Finished Level**

**Sketch: 240065-SK130 (Rev B)**  
 Drawn By JAC | Checked By JLB  
 Approved By BB | 19/12/2025

FOR INFORMATION/NOT FOR CONSTRUCTION



**Legend**

-  Site Boundary
-  Hukerenui Mudstone, Northland Allochthon
-  East Coast Bays Formation
-  Inferred Geology Contact

- Notes:**
1. Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024
  2. Existing ground surface outside of the site boundary taken from LINZ DEM 2016–2018
  3. Aerial imagery taken from LINZ Basemaps
  4. Property data taken from LINZ Data Service
  5. Proposed scheme plan provided by McKenzie & Co., dated 10 December 2025.
  6. Geological contacts inferred from geomorphology mapping and available intrusive site investigations.

Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:7500



**Vineway Ltd**  
**Russell Road, Wainui – Delmore**  
**Geological Map**

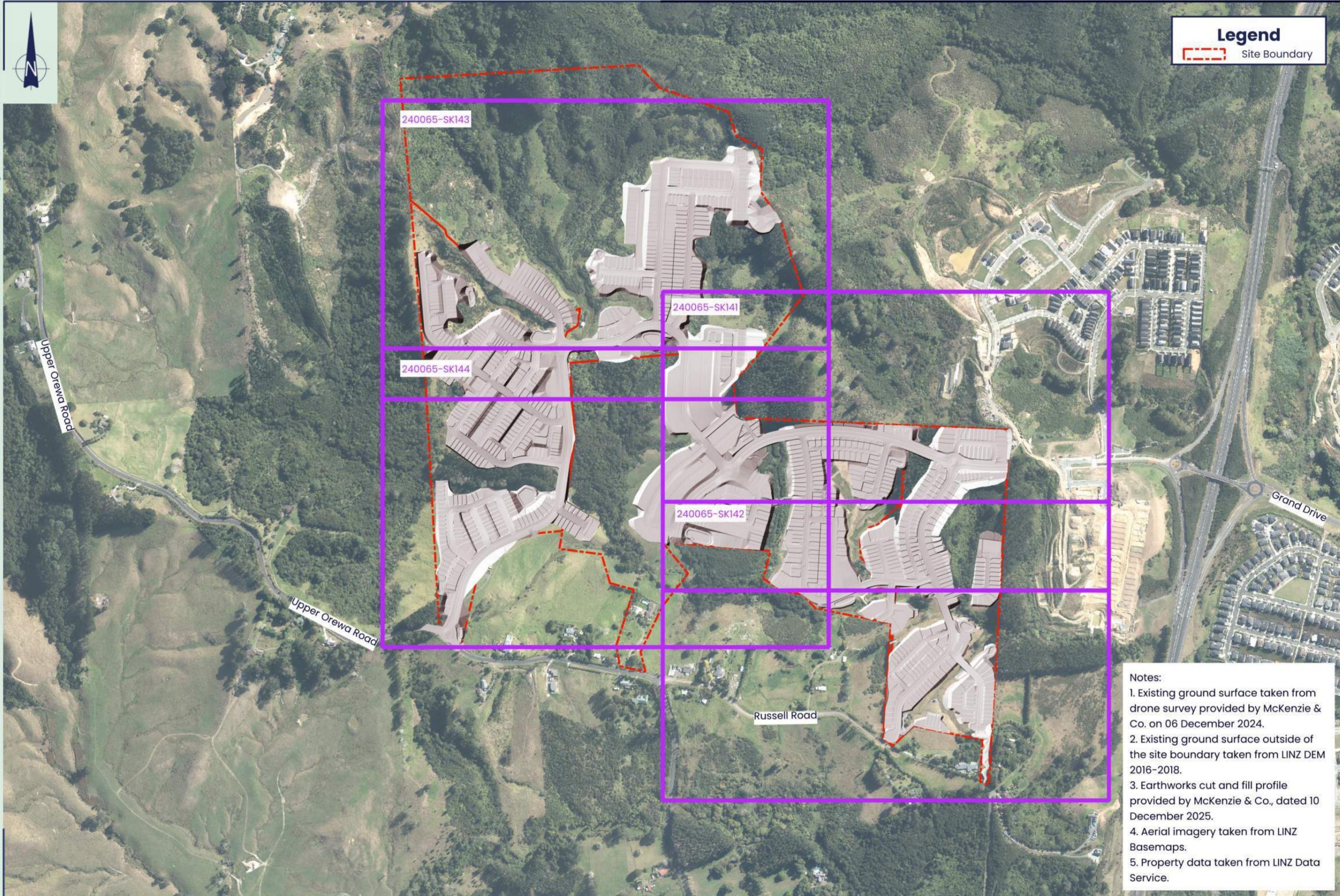
**Sketch: 240065-SK131 (Rev B)**  
Drawn By JAC | Checked By JLB  
Approved By BB | 19/12/2025

FOR INFORMATION/NOT FOR CONSTRUCTION



**Legend**

 Site Boundary



- Notes:**
1. Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  2. Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
  3. Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  4. Aerial imagery taken from LINZ Basemaps.
  5. Property data taken from LINZ Data Service.

Project Number: 240065 | Drawn by aboyd | Date printed: 17/12/2025 | Scale: 1:7500



**Vineway Ltd**  
**Russell Road, Wainui - Delmore**  
 Geotechnical Remedials Overview Plan

**Sketch: 240065-SK140 (Rev B)**  
 Drawn By JAC | Checked By JLB  
 Approved By BB | 19/12/2025

FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION

Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

- Site Boundary
- Proposed Major Contours (5m Interval)
- Proposed Minor Contours (1m Interval)
- Existing Major Contours (5m Interval)
- Existing Minor Contours (1m Interval)
- Estimated Riparian Margin
- Waterways

### Indicative Remedial Measures

- Retaining wall
- Tiered Retaining wall
- Palisade wall
- REB
- Back-to-back REB
- REB slope + shear pile
- Soil nails
- Shear key
- Counterfort drains

Notes:

1. This sketch shows the indicative extent of proposed stabilisation enhancement measures. Final extent and configuration subject to detailed design and confirmation on site. For further details, refer to Riley report ref. 240065-Q and corresponding appendices.
2. For details on stability enhancement measures required between platforms, refer to 240065-Q.
3. The maximum gradient of the ground upslope of a proposed retaining wall is 18°.
4. Existing ground surface taken from drone survey provided by McKenzie & Co. on 6 December 2024.
5. Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
6. Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
7. Aerial imagery taken from LINZ Basemaps.
8. Property data taken from LINZ Data Service.

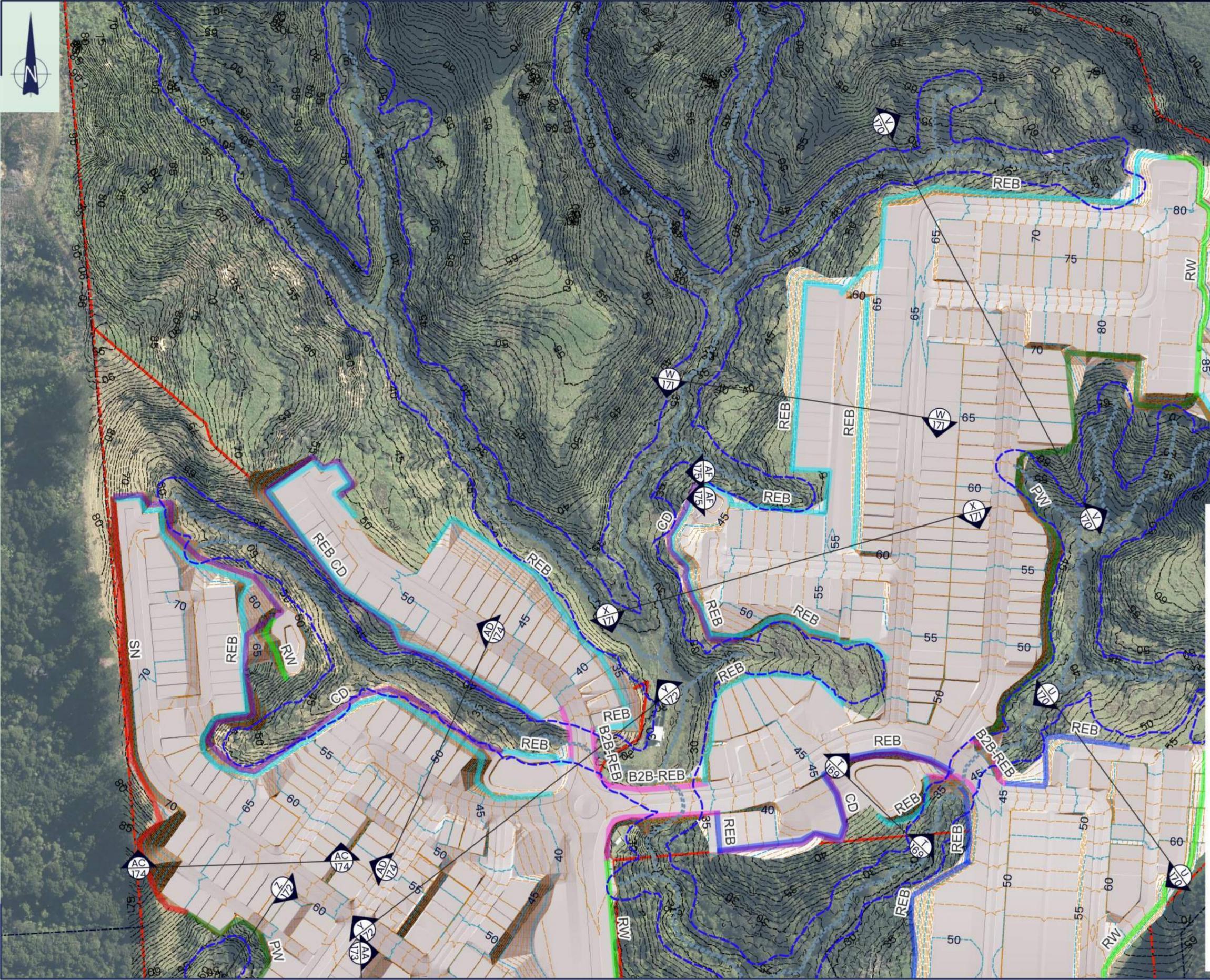


Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:2500



FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION

Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

- Site Boundary
- Proposed Major Contours (5m Interval)
- Proposed Minor Contours (1m Interval)
- Existing Major Contours (5m Interval)
- Existing Minor Contours (1m Interval)
- Estimated Riparian Margin
- Waterways

#### Indicative Remedial Measures

- Retaining wall
- Tiered Retaining wall
- Palisade wall
- REB
- Back-to-back REB
- REB slope + shear pile
- Soil nails
- Shear key
- Counterfort drains

**Notes:**

- This sketch shows the indicative extent of proposed stabilisation enhancement measures. Final extent and configuration subject to detailed design and confirmation on site. For further details, refer to Riley report ref. 240065-Q and corresponding appendices.
- For details on stability enhancement measures required between platforms, refer to 240065-Q.
- The maximum gradient of the ground upslope of a proposed retaining wall is 18°.
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 6 December 2024.
- Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
- Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
- Aerial imagery taken from LINZ Basemaps.
- Property data taken from LINZ Data Service.



Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:2500

FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION

Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

- Site Boundary
- Proposed Major Contours (5m Interval)
- Proposed Minor Contours (1m Interval)
- Existing Major Contours (5m Interval)
- Existing Minor Contours (1m Interval)
- Estimated Riparian Margin
- Waterways

#### Indicative Remedial Measures

- Retaining wall
- Tiered Retaining wall
- Palisade wall
- REB
- Back-to-back REB
- REB slope + shear pile
- Soil nails
- Shear key
- Counterfort drains

Notes:

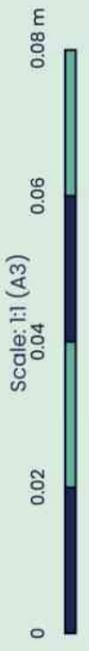
1. This sketch shows the indicative extent of proposed stabilisation enhancement measures. Final extent and configuration subject to detailed design and confirmation on site. For further details, refer to Riley report ref. 240065-Q and corresponding appendices.
2. For details on stability enhancement measures required between platforms, refer to 240065-Q.
3. The maximum gradient of the ground upslope of a proposed retaining wall is 18°.
4. Existing ground surface taken from drone survey provided by McKenzie & Co. on 6 December 2024.
5. Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
6. Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
7. Aerial imagery taken from LINZ Basemaps.
8. Property data taken from LINZ Data Service.



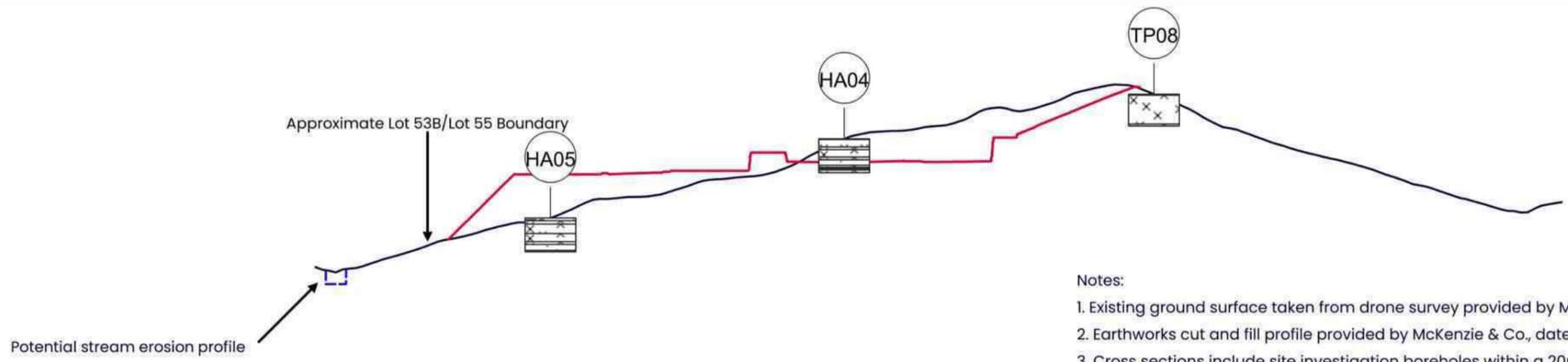
Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:2500

FOR INFORMATION/NOT FOR CONSTRUCTION

Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



**SECTION A**  
SCALE: 1:750  
112, 141

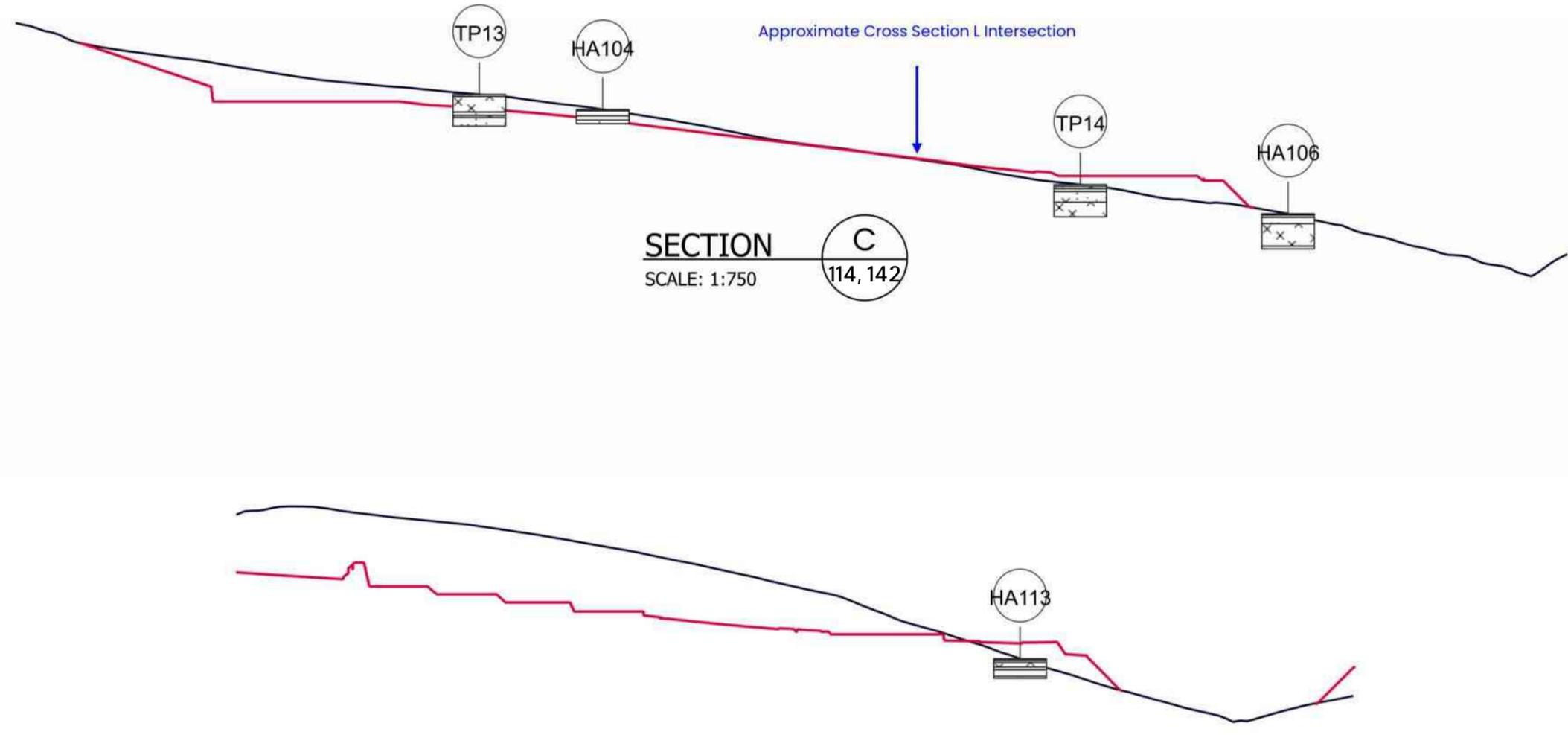


**SECTION B**  
SCALE: 1:750  
114, 141

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



**SECTION C**  
SCALE: 1:750  
114, 142

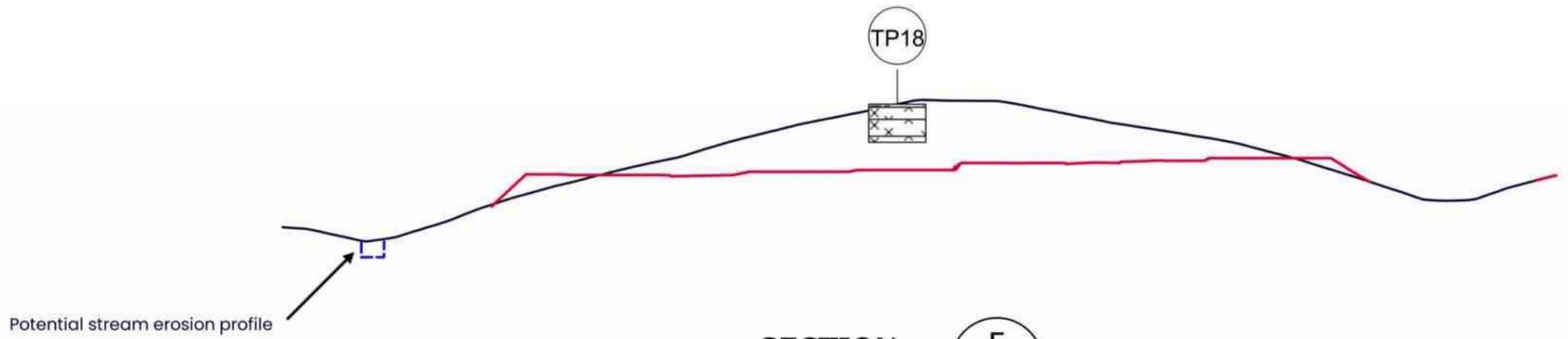
**SECTION D**  
SCALE: 1:750  
114, 142

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.

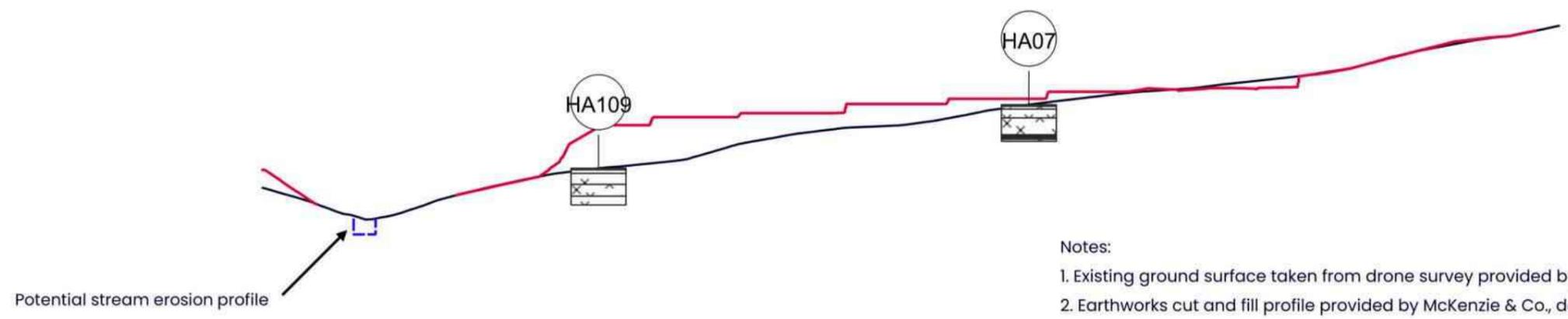


Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level

Scale: 1:1 (A3)  
0.08 m  
0.06  
0.04  
0.02  
0



**SECTION E**  
SCALE: 1:750  
115, 142

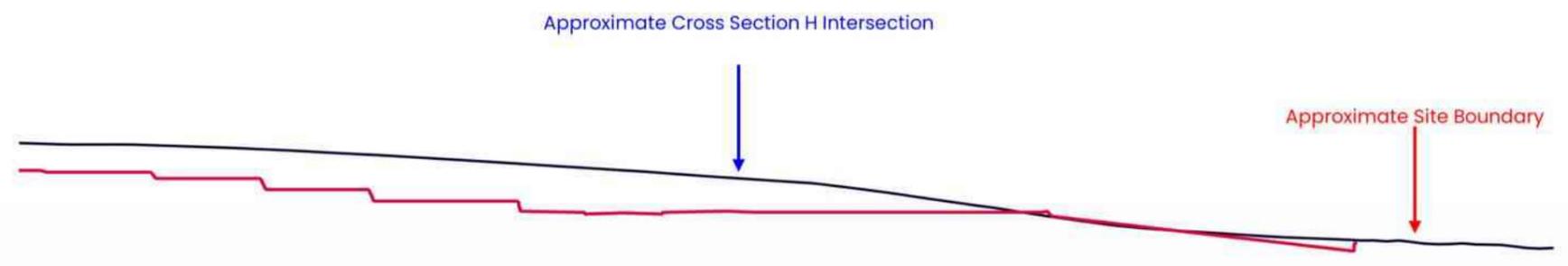


**SECTION F**  
SCALE: 1:750  
116, 142

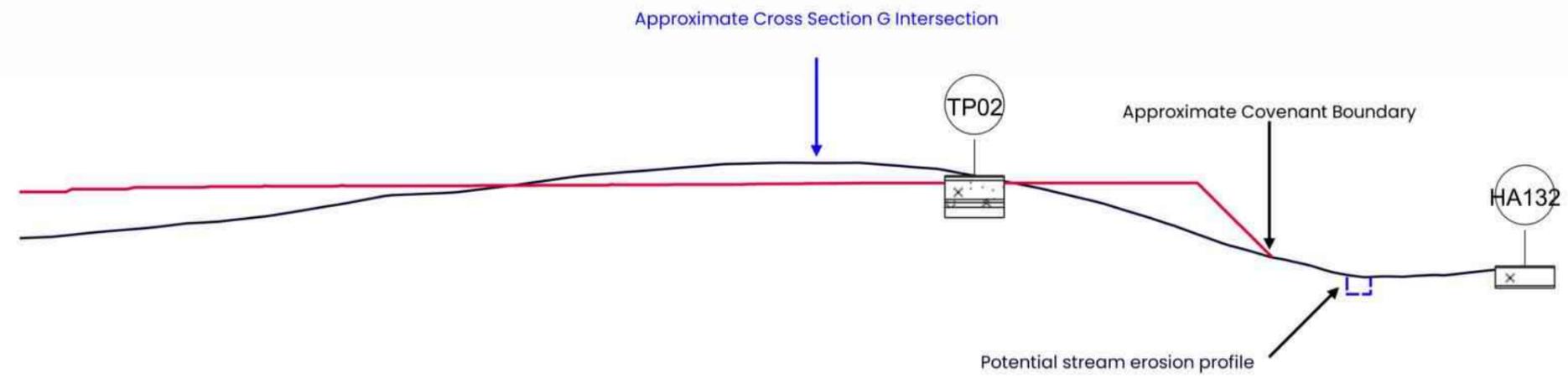
- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level

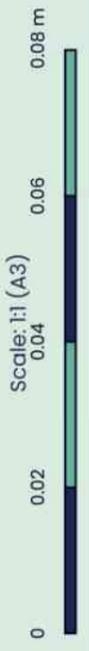


**SECTION G**  
SCALE: 1:500  
113, 141

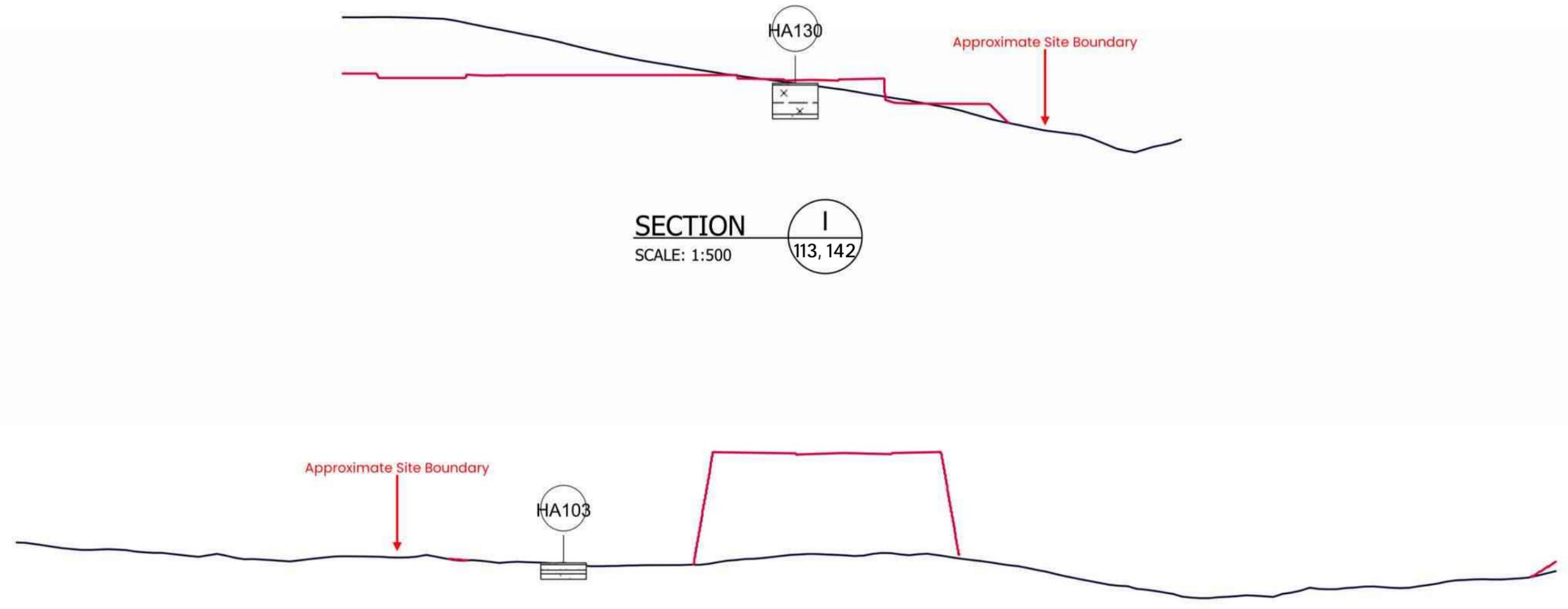
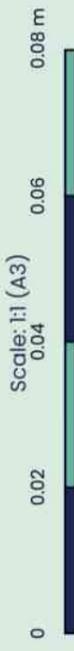


**SECTION H**  
SCALE: 1:750  
113, 141

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



**SECTION I**  
SCALE: 1:500  
113, 142

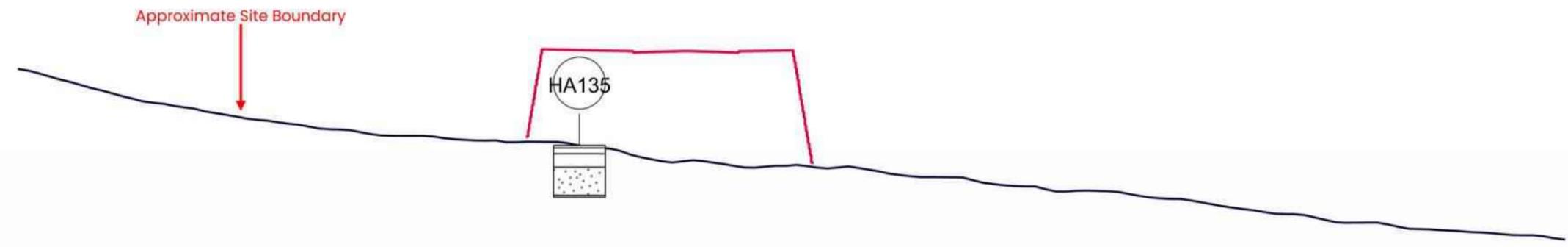
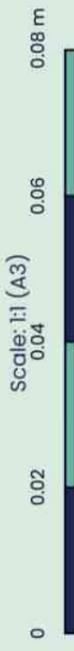
**SECTION J**  
SCALE: 1:500  
112, 141

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.

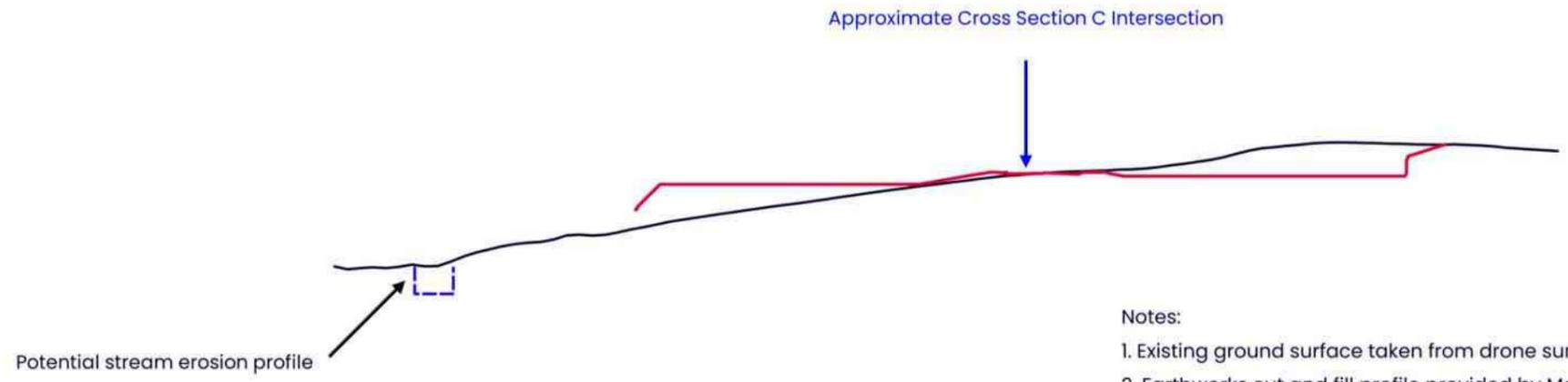


FOR INFORMATION/NOT FOR CONSTRUCTION

Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



**SECTION K**  
SCALE: 1:500  
111, 141

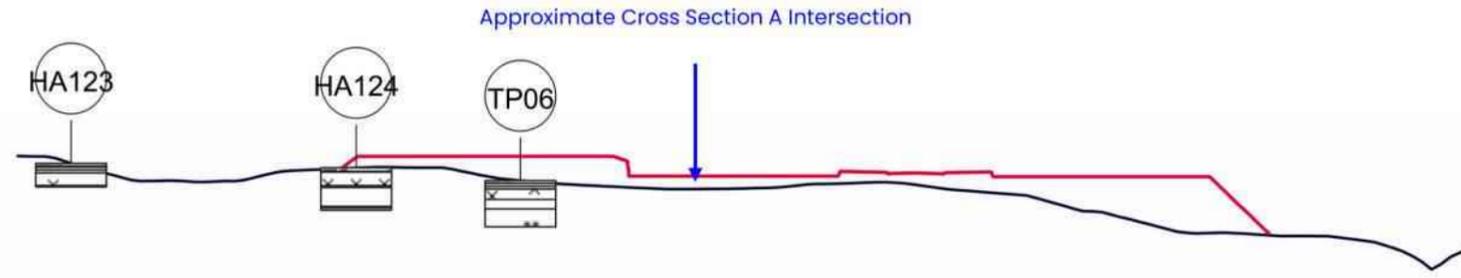


**SECTION L**  
SCALE: 1:500  
114, 142

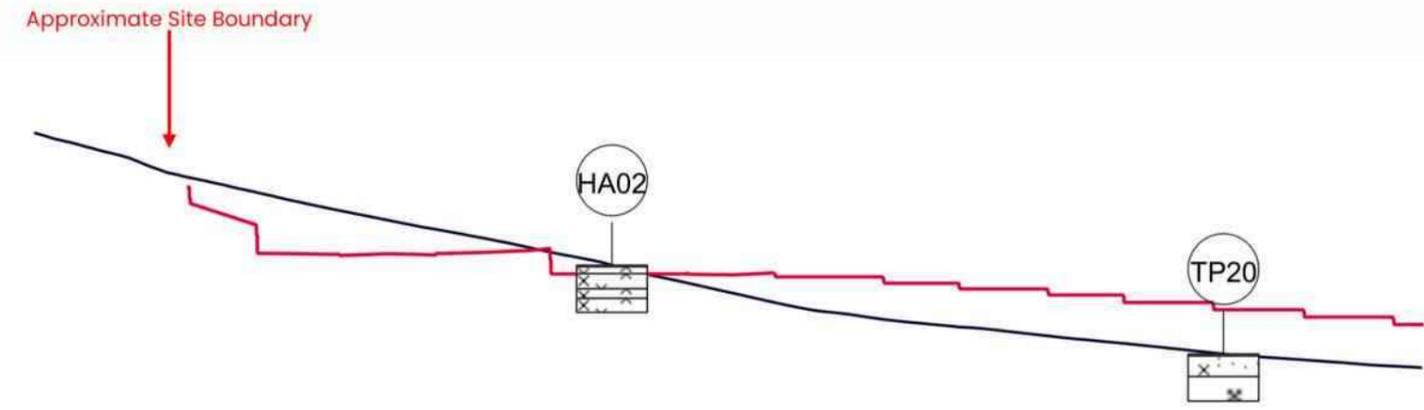
- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level

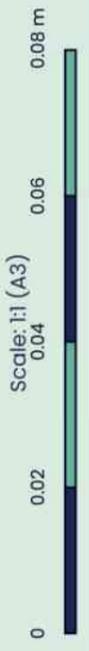


**SECTION M**  
SCALE: 1:750  
112, 141

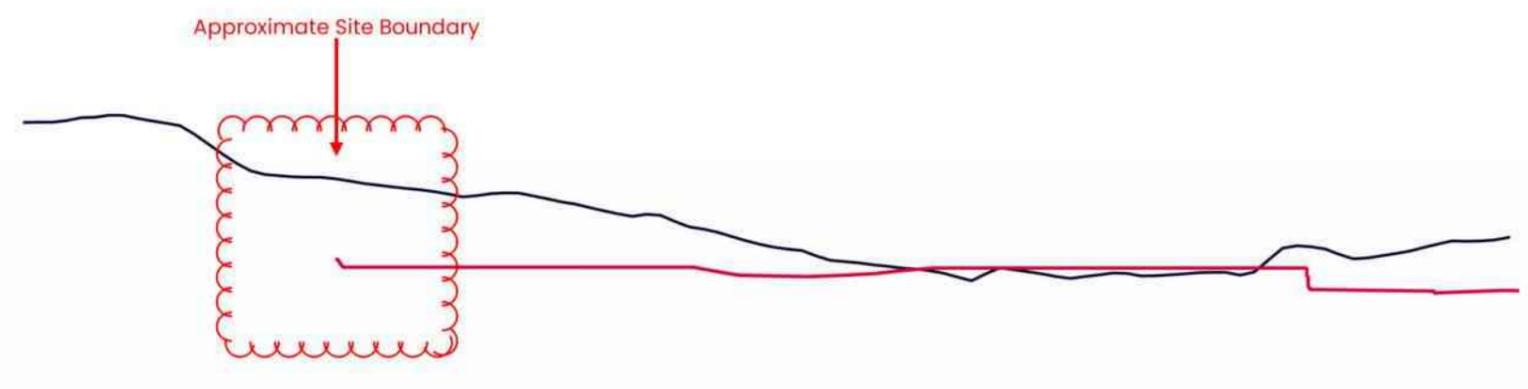
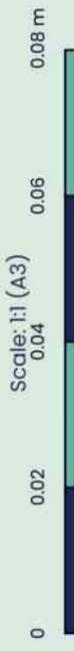


**SECTION N**  
SCALE: 1:750  
111, 141

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



**SECTION O**  
SCALE: 1:500  
112, 141

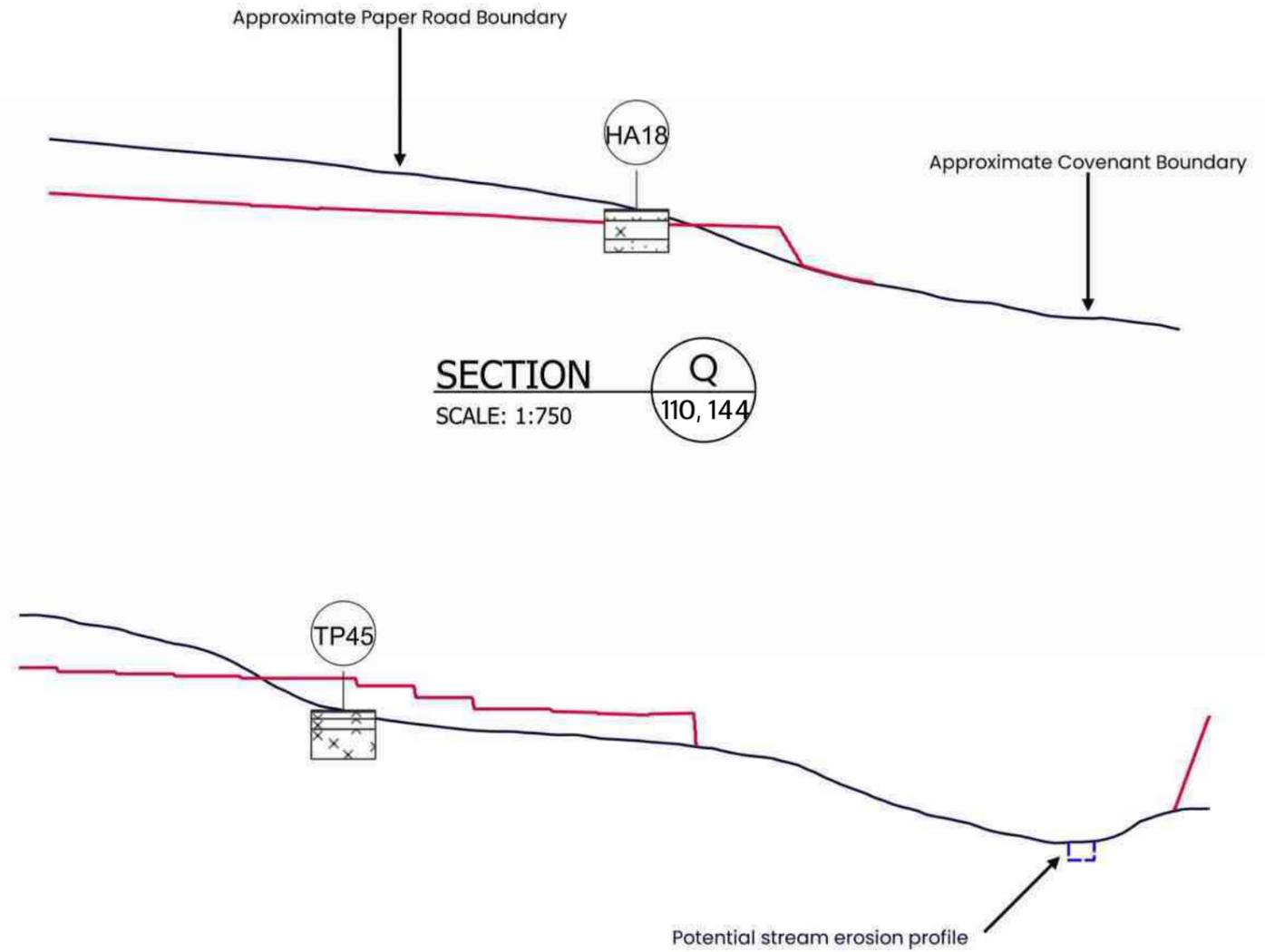
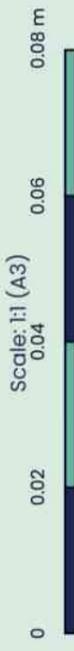


**SECTION P**  
SCALE: 1:500  
115, 142

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



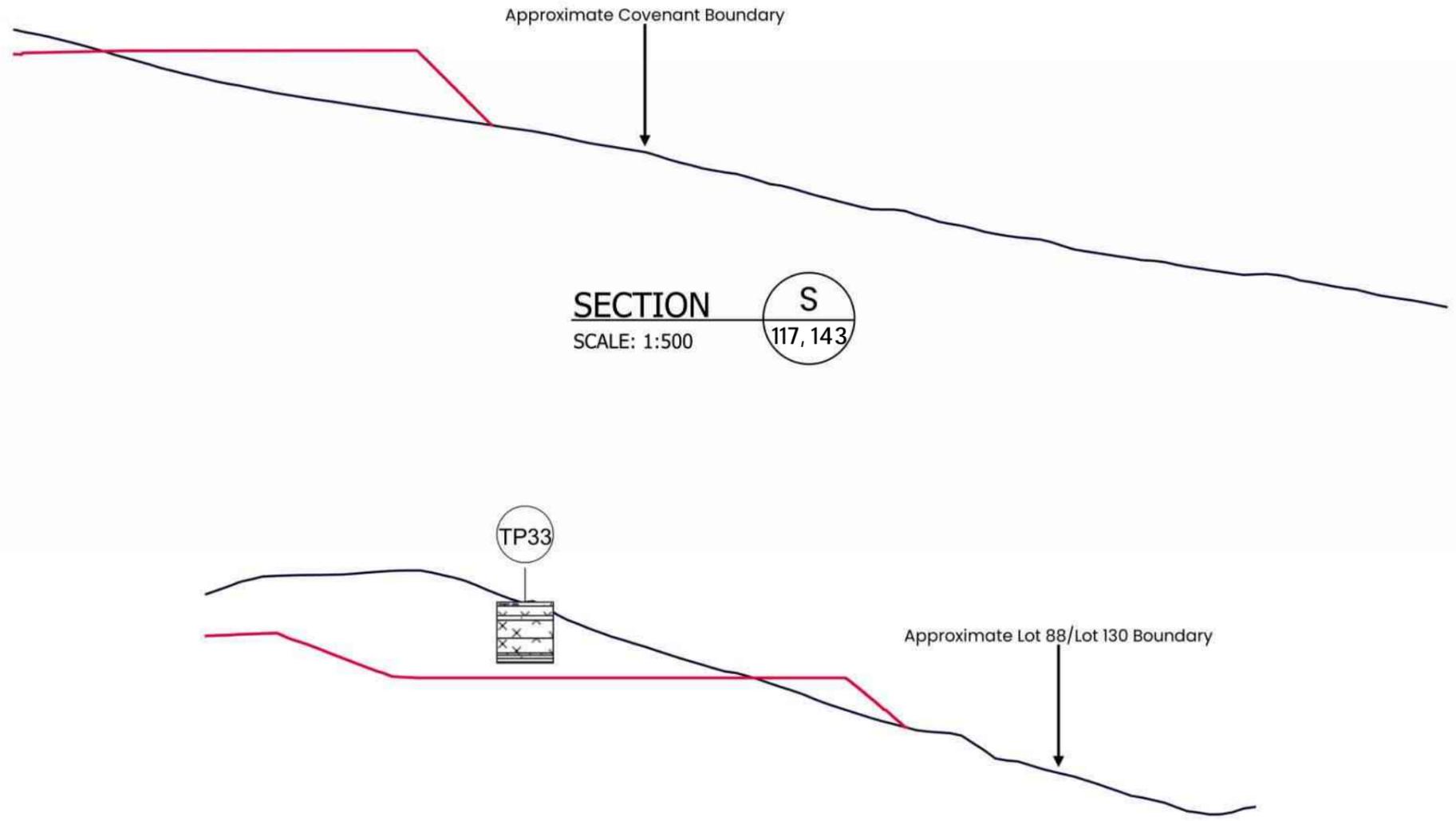
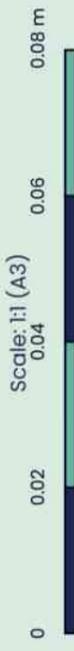
**SECTION Q**  
SCALE: 1:750  
110, 144

**SECTION R**  
SCALE: 1:750  
112, 144

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



**SECTION S**  
SCALE: 1:500  
117, 143

**SECTION T**  
SCALE: 1:500  
118, 144

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



FOR INFORMATION/NOT FOR CONSTRUCTION

Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



Approximate Paper Road Boundary

Approximate Lot 88/Lot 130 Boundary

HA16

SECTION U  
SCALE: 1:750  
119, 143

HA14

Design surface extrapolated to join existing ground.

Potential stream erosion profile

TP26

SECTION V  
SCALE: 1:1000  
120, 143

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



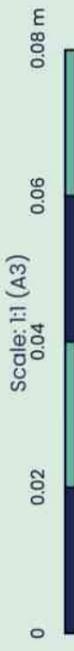
Vineway Ltd  
Russell Road, Wainui - Delmore  
Geotechnical Cross Sections - U & V

Sketch: 240065-SK170 (Rev B)  
Drawn By JAC | Checked By JLB  
Approved By BB | 19/12/2025

Project Number: 240065 | Drawn by Ituser | Date printed: 17/12/2025 | Scale: 1:1

FOR INFORMATION/NOT FOR CONSTRUCTION

Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



**SECTION W**  
SCALE: 1:750  
120, 143

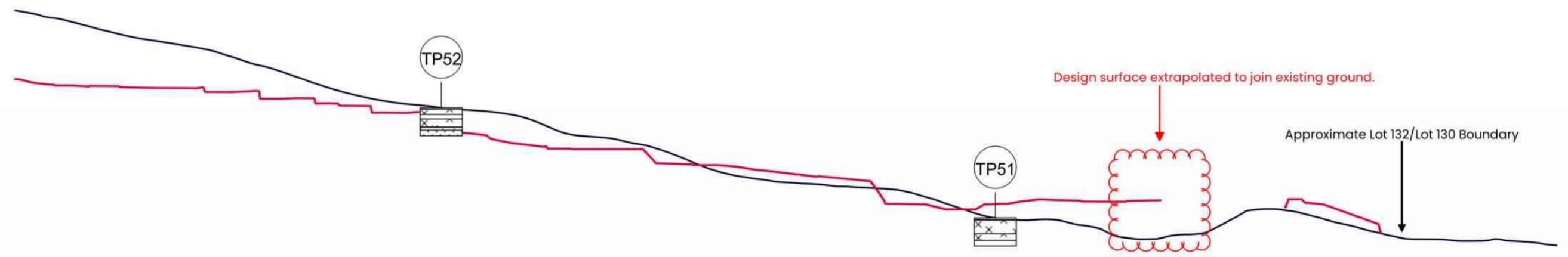
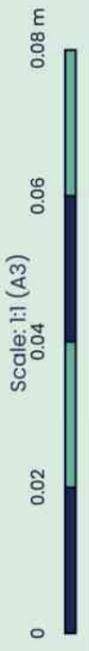
**SECTION X**  
SCALE: 1:750  
118, 143

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.

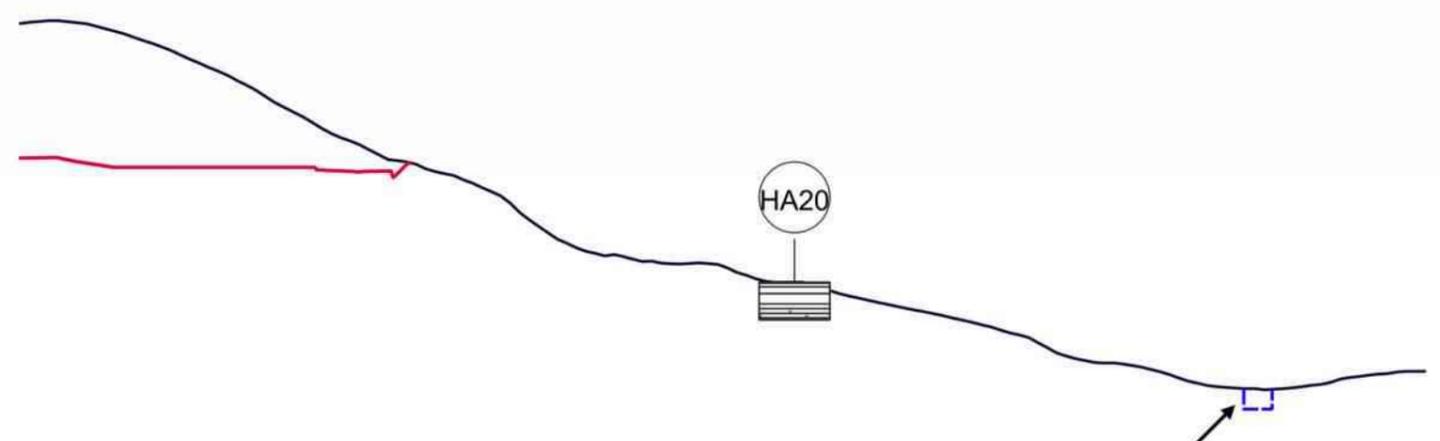


FOR INFORMATION/NOT FOR CONSTRUCTION

Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



**SECTION Y**  
SCALE: 1:750  
123, 143

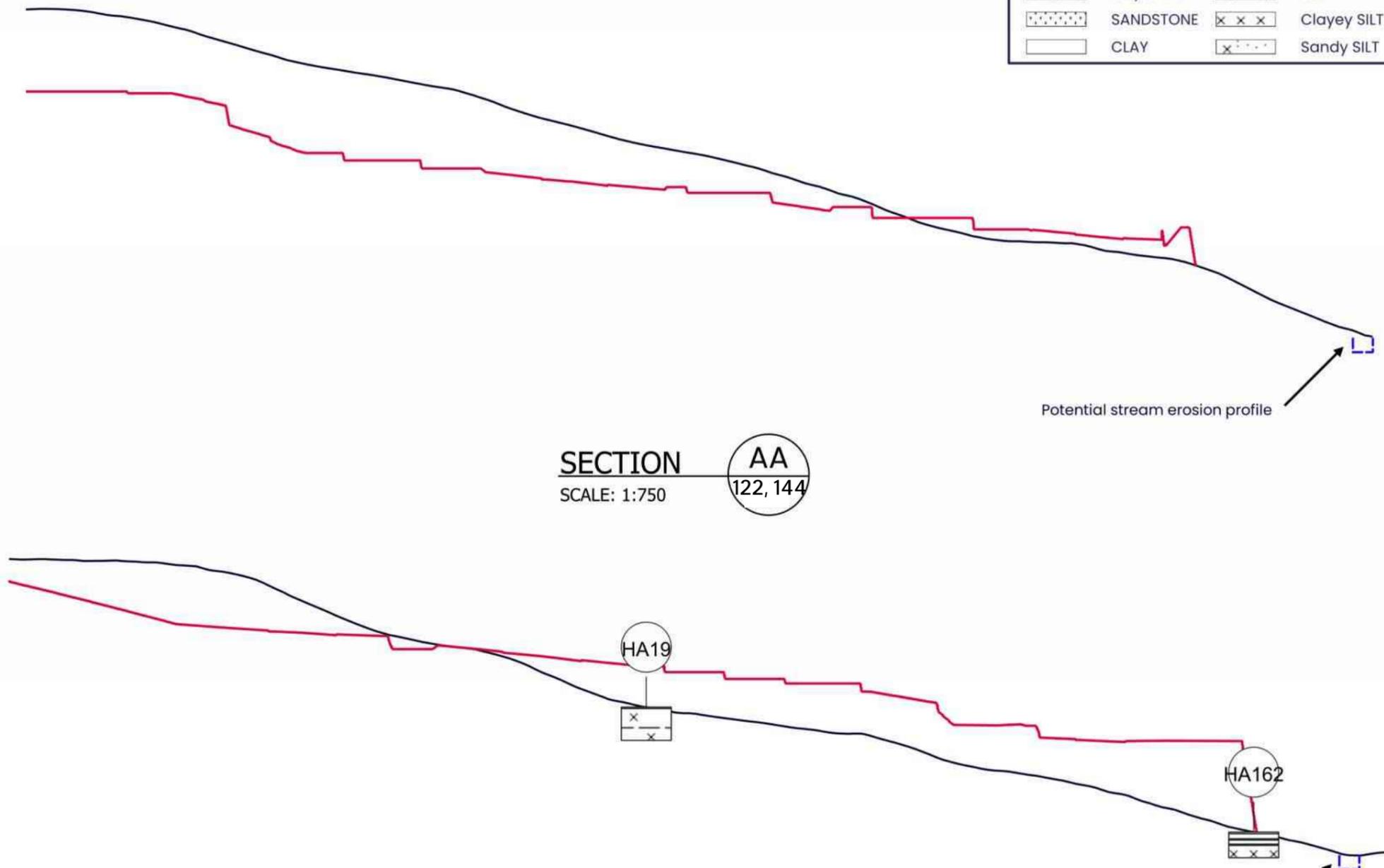
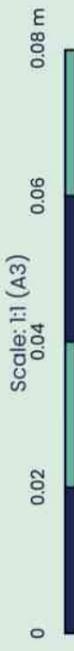


**SECTION Z**  
SCALE: 1:750  
122, 144

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



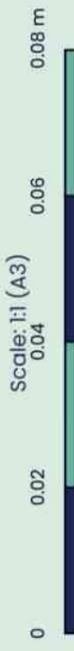
**SECTION AA**  
SCALE: 1:750  
122, 144

**SECTION AB**  
SCALE: 1:750  
121, 144

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



SECTION AC  
SCALE: 1:750  
123, 144

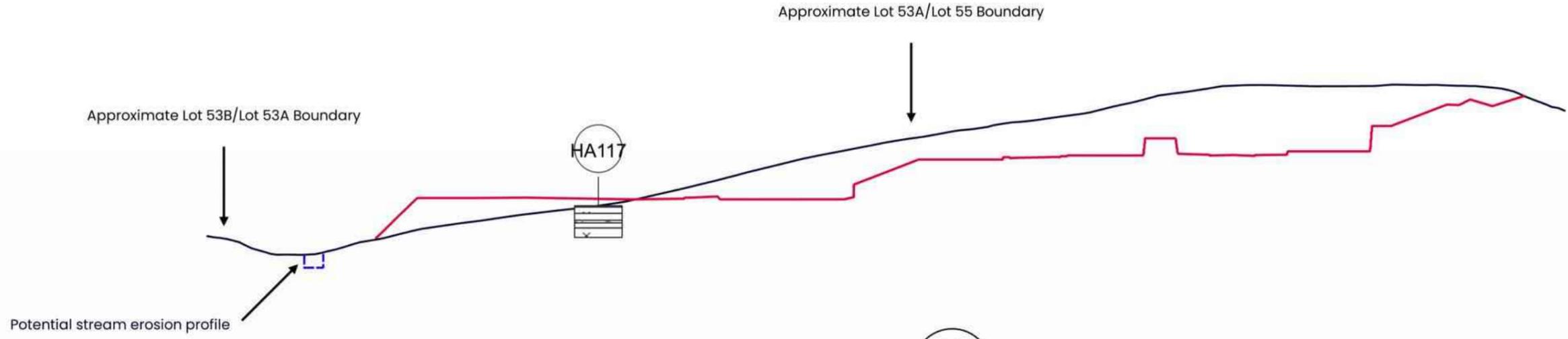
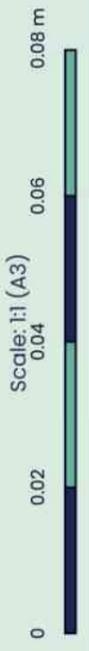
SECTION AD  
SCALE: 1:750  
123, 143

Approximate Lot 132/Lot 130 Boundary

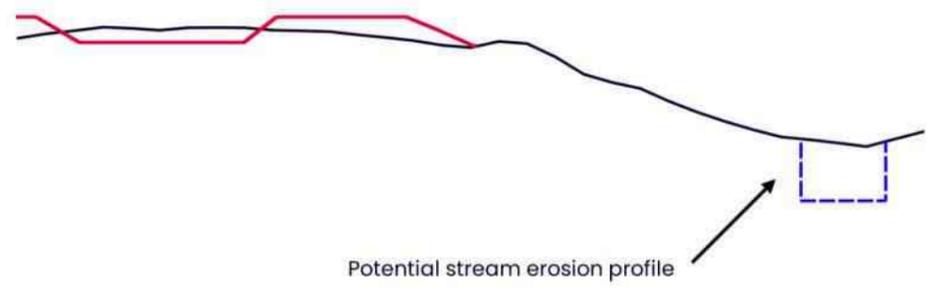
- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



**SECTION AE**  
SCALE: 1:750  
114, 142

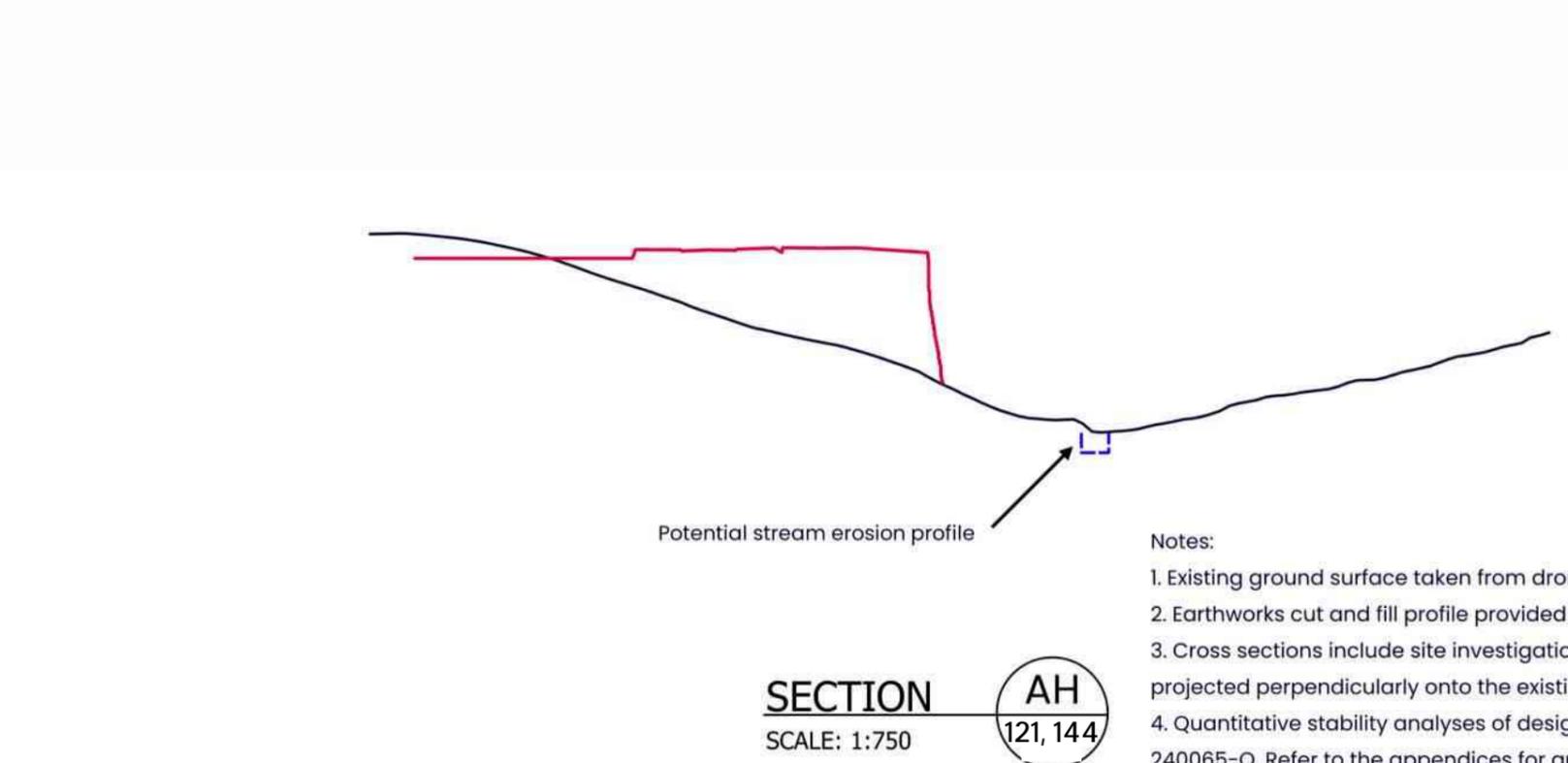
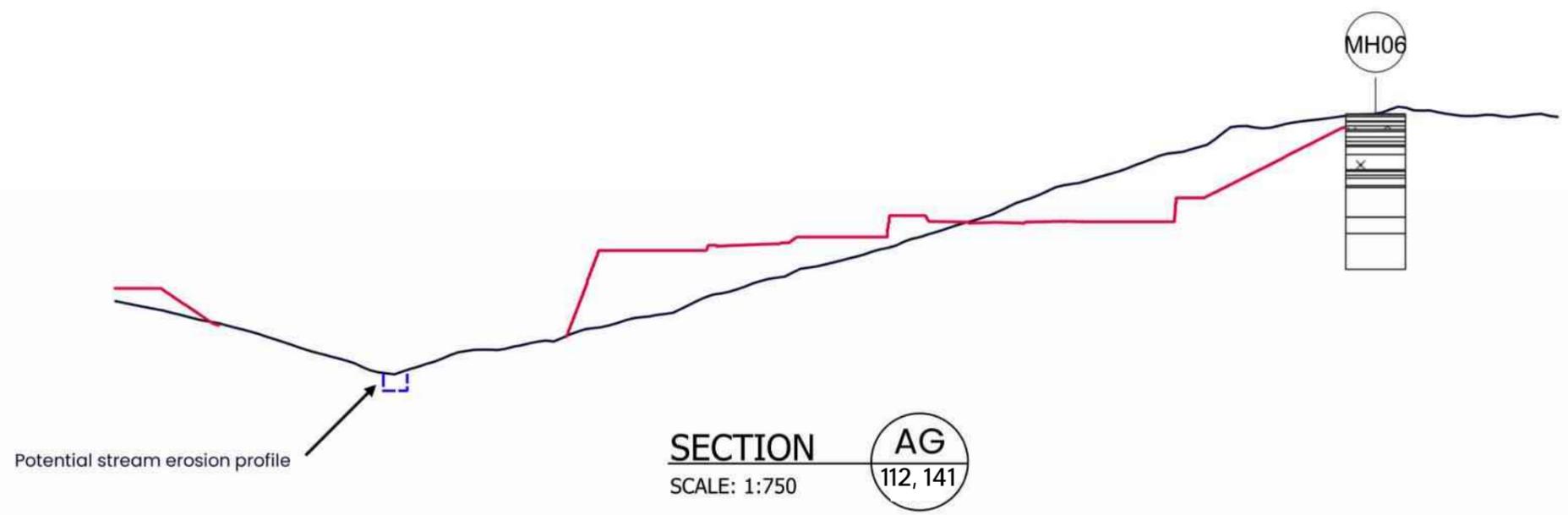
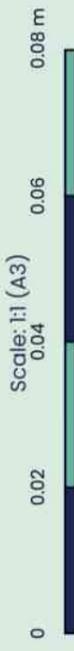


**SECTION AF**  
SCALE: 1:250  
120, 143

- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



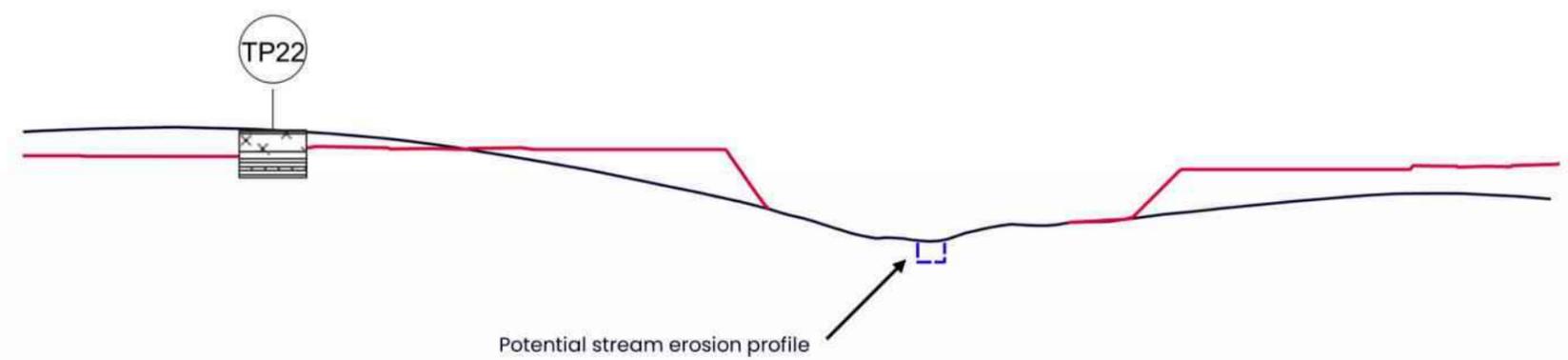
Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



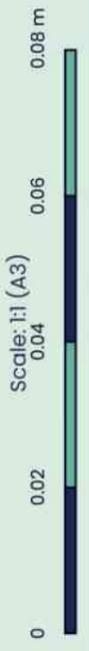
- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.



Legend					
	Topsoil		Silty CLAY		Organic SILT
	SAND		Sandy CLAY		SILTSTONE
	Silty SAND		SILT		MUDSTONE
	SANDSTONE		Clayey SILT		Existing Ground Level
	CLAY		Sandy SILT		Design Ground Level



SECTION AI  
SCALE: 1:750  
111, 141



- Notes:
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  - Earthworks cut and fill profile provided by McKenzie & Co., dated 10 December 2025.
  - Cross sections include site investigation boreholes within a 20m corridor of the section line. Boreholes are projected perpendicularly onto the existing ground level.
  - Quantitative stability analyses of design ground level cross sections are detailed in Riley report ref. 240065-Q. Refer to the appendices for ground model and slope stability outputs and a summary of the results and required remedial measures.
  - All batters steeper than 1v in 4h will require further geotechnical input during detailed design.

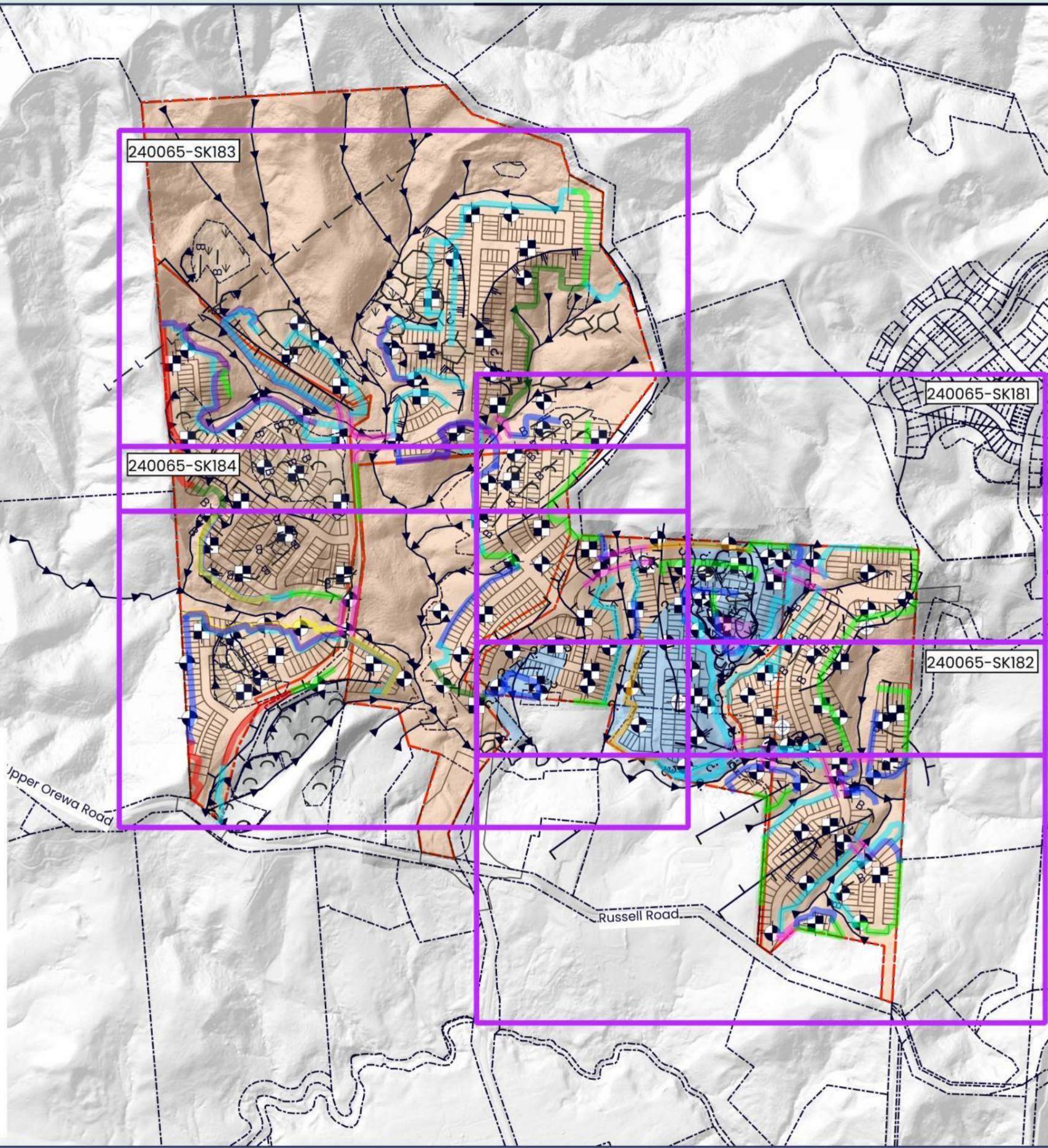


FOR INFORMATION/NOT FOR CONSTRUCTION



Notes:

- Existing ground surface taken from drone survey provided by McKenzie & Co. on 6 December 2024.
- Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
- Proposed lot development provided by Myland Partners, dated 10 December 2025.
- Property data taken from LINZ Data Service.
- Geomorphology mapped by Riley Consultants' Geologists during site walkovers on 08 April 2024 and 08 November 2024.
- Site investigation completed by Riley Consultants across November and December 2024.
- Geological contact inferred from geomorphological mapping and available intrusive site investigation.
- This sketch shows the indicative extent of the proposed stabilisation enhancement measures. Final extent and configurations is subject to detailed design and confirmation on site.



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Reeds
- Depression
- Mound
- Hummocky
- Soil Creep
- Scarp
- Scarp (Inferred)
- Scarp (Assumed)
- Top of Slope
- Bottom of Slope
- Benching
- Water Course
- Ridge Line
- Gully
- Lineation
- Geology Contact
- Allochthon
- ECBF

**Preliminary Proposed Stabilisation Enhancement Measures**

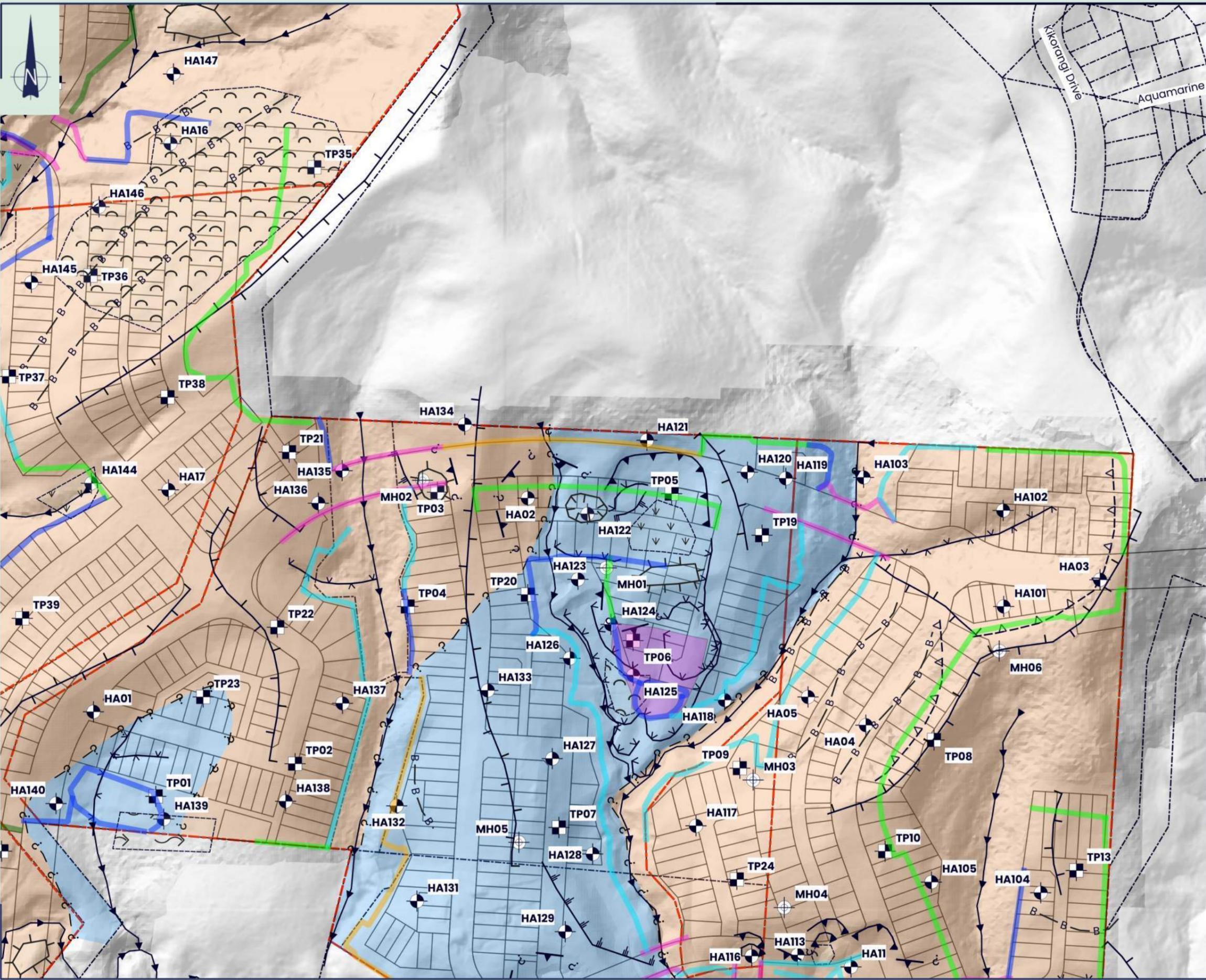
- Undercut
- Retaining wall
- Tiered retaining wall
- Palisade wall
- REB
- Back-to-back REB
- REB slope + shear pile
- Counterfort drains
- Soil nails
- Shear key

Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:7500



FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION

Scale: 1:2500 (A3)  
240 m  
180  
120  
60  
0



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Reeds
- Depression
- Mound
- Hummocky
- Soil Creep
- Scarp
- Scarp (Inferred)
- Scarp (Assumed)
- Top of Slope
- Bottom of Slope
- Benching
- Water Course
- Ridge Line
- Gully
- L - L - Lination
- Geology Contact
- Allochthon
- ECBF

Preliminary Proposed Stabilisation Enhancement Measures

- Undercut
- Retaining wall
- Tiered retaining wall
- Palisade wall
- REB
- Back-to-back REB
- REB slope + shear pile
- Counterfort drains
- Soil nails
- Shear key

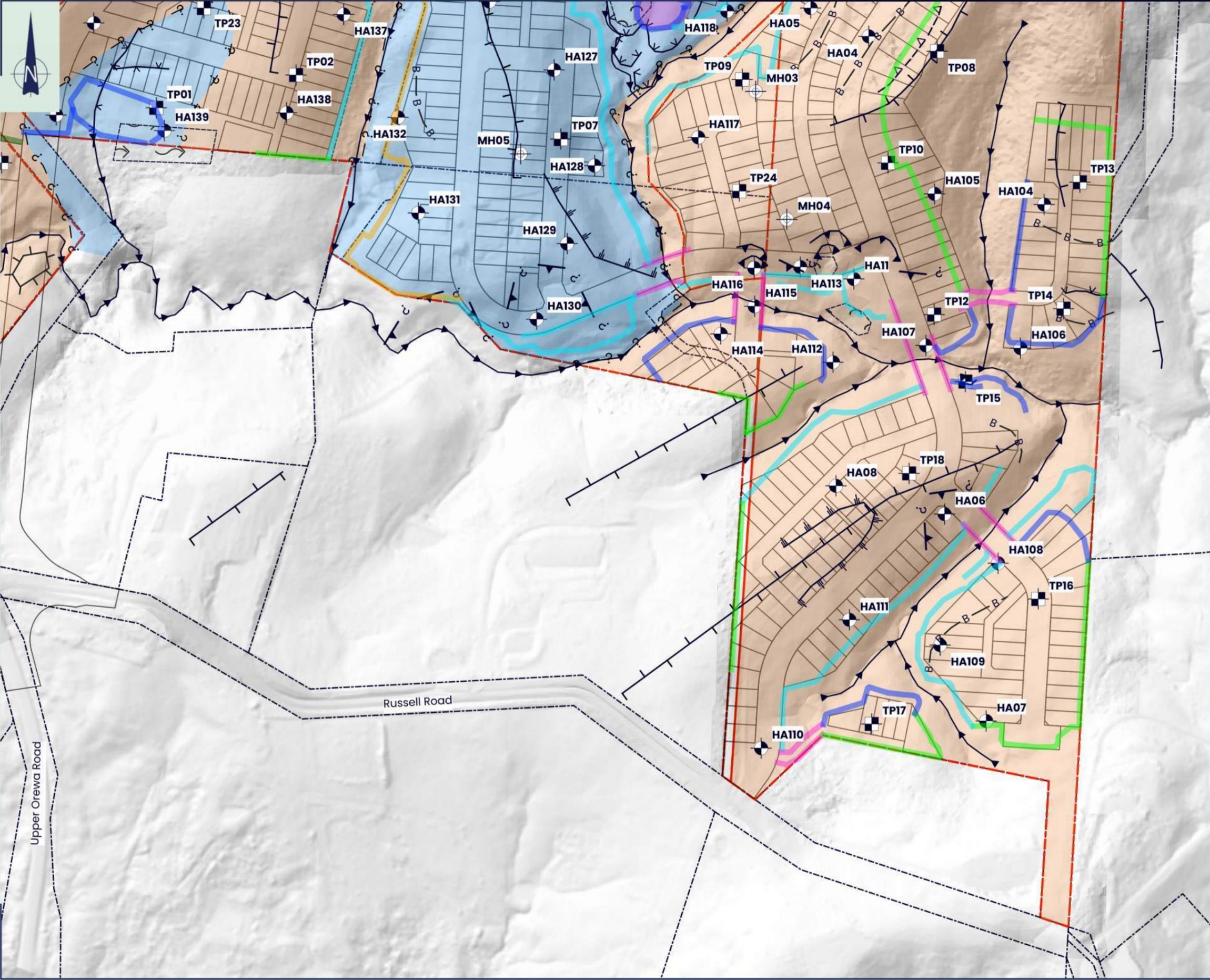
Notes:  
Refer to 240065-SK180.



Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:2500

FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION

Scale: 1:2500 (A3)  
240 m  
180  
120  
60  
0



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Reeds
- Depression
- Mound
- Hummocky
- Soil Creep
- Scarp
- Scarp (Inferred)
- Scarp (Assumed)
- Top of Slope
- Bottom of Slope
- Benching
- Water Course
- Ridge Line
- Gully
- Lineation
- Geology Contact
- Allochthon
- ECBF

Preliminary Proposed Stabilisation Enhancement Measures

- Undercut
- Retaining wall
- Tiered retaining wall
- Palisade wall
- REB
- Back-to-back REB
- REB slope + shear pile
- Counterfort drains
- Soil nails
- Shear key

Notes:  
Refer to 240065-SK180.

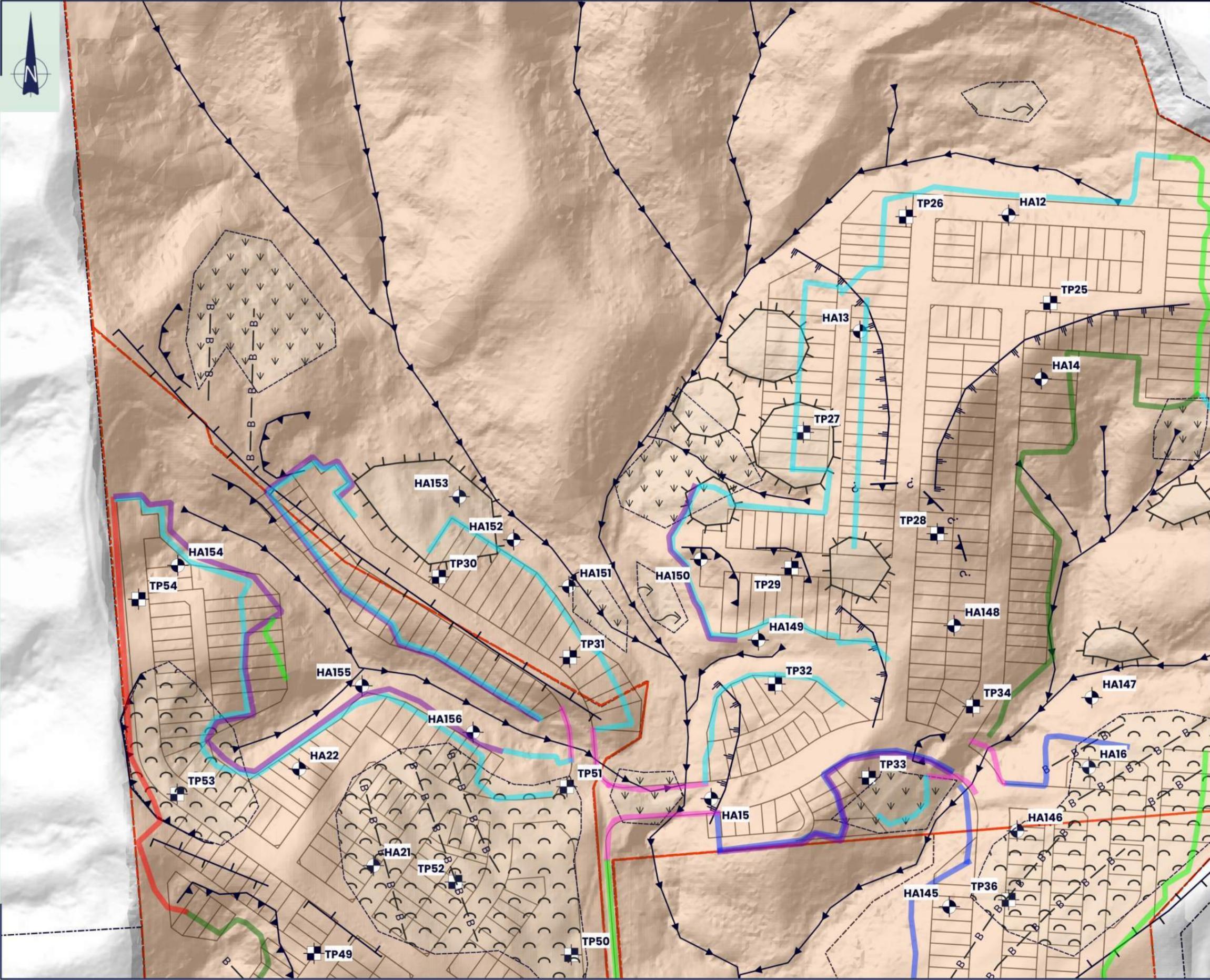


Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:2500

FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION



Scale: 1:2500 (A3)  
240 m  
180  
120  
60  
0



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Reeds
- Depression
- Mound
- Hummocky
- Soil Creep
- Scarp
- Scarp (Inferred)
- Scarp (Assumed)
- Top of Slope
- Bottom of Slope
- Benching
- Water Course
- Ridge Line
- Gully
- Liation
- Geology Contact
- Allochthon
- ECBF

**Preliminary Proposed Stabilisation Enhancement Measures**

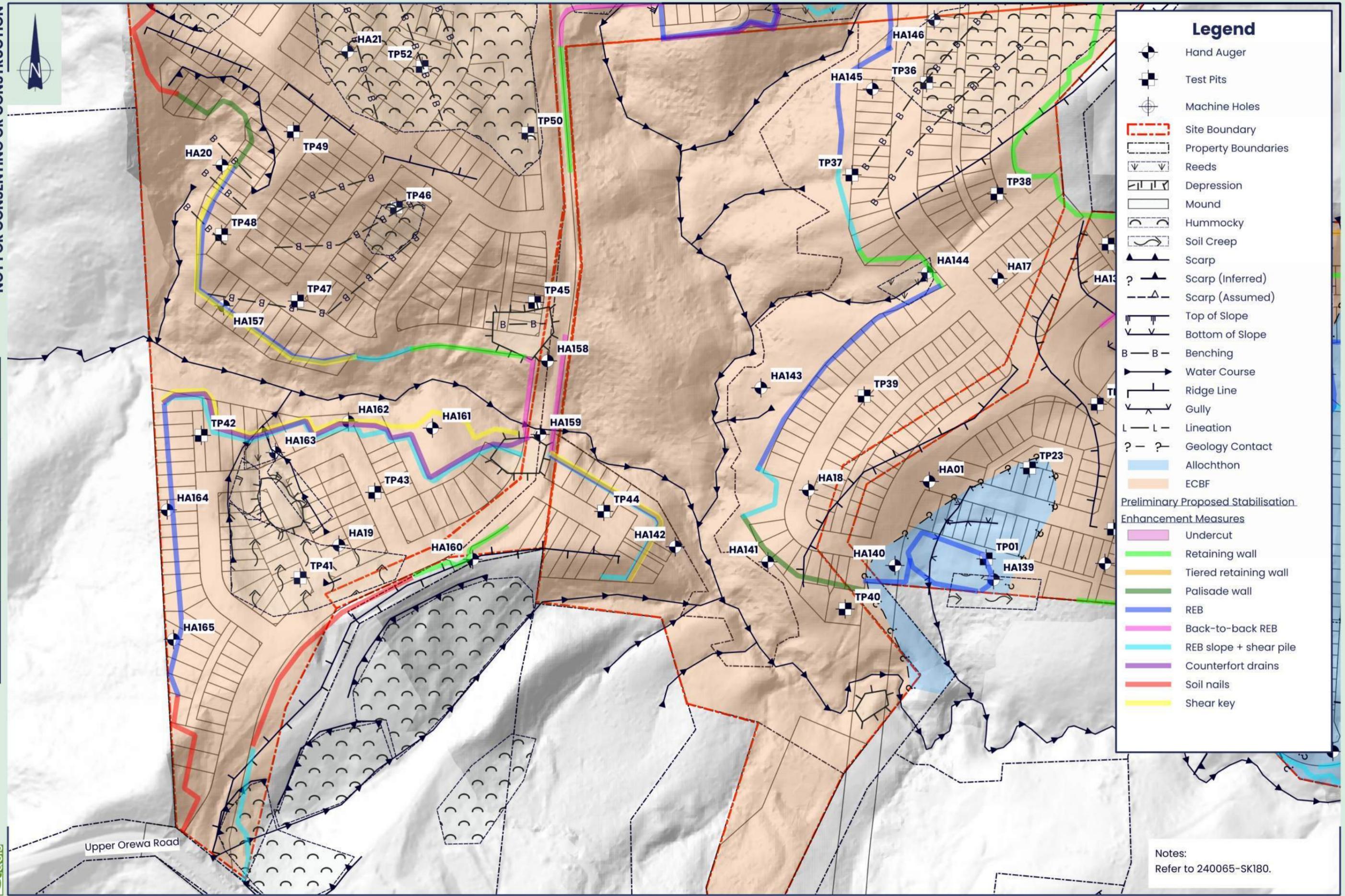
- Undercut
- Retaining wall
- Tiered retaining wall
- Palisade wall
- REB
- Back-to-back REB
- REB slope + shear pile
- Counterfort drains
- Soil nails
- Shear key

Notes:  
Refer to 240065-SK180.

FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION



Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Reeds
- Depression
- Mound
- Hummocky
- Soil Creep
- Scarp
- Scarp (Inferred)
- Scarp (Assumed)
- Top of Slope
- Bottom of Slope
- Benching
- Water Course
- Ridge Line
- Gully
- L - L - L
- Geology Contact
- Allochthon
- ECBF

**Preliminary Proposed Stabilisation Enhancement Measures**

- Undercut
- Retaining wall
- Tiered retaining wall
- Palisade wall
- REB
- Back-to-back REB
- REB slope + shear pile
- Counterfort drains
- Soil nails
- Shear key

Notes:  
Refer to 240065-SK180.

Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:2500

FOR INFORMATION/NOT FOR CONSTRUCTION



Scale: 1:7500 (A3)  
400 m  
300  
200  
100  
0

Notes:

- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
- Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
- Proposed lot development provided by Myland Partners, dated 10 December 2025.
- Property data taken from LINZ Data Service.
- Site investigation completed by Riley Consultants across November and December 2024.
- This sketch shows the indicative extent of the proposed stabilisation enhancement measures. Final extent and configurations are subject to detailed design and confirmation on site.
- Earthwork cut and fill profiles for Stages 1 and 2 are generated from design ground surface provided by McKenzie & Co., dated 10 December 2025.



240065-SK188

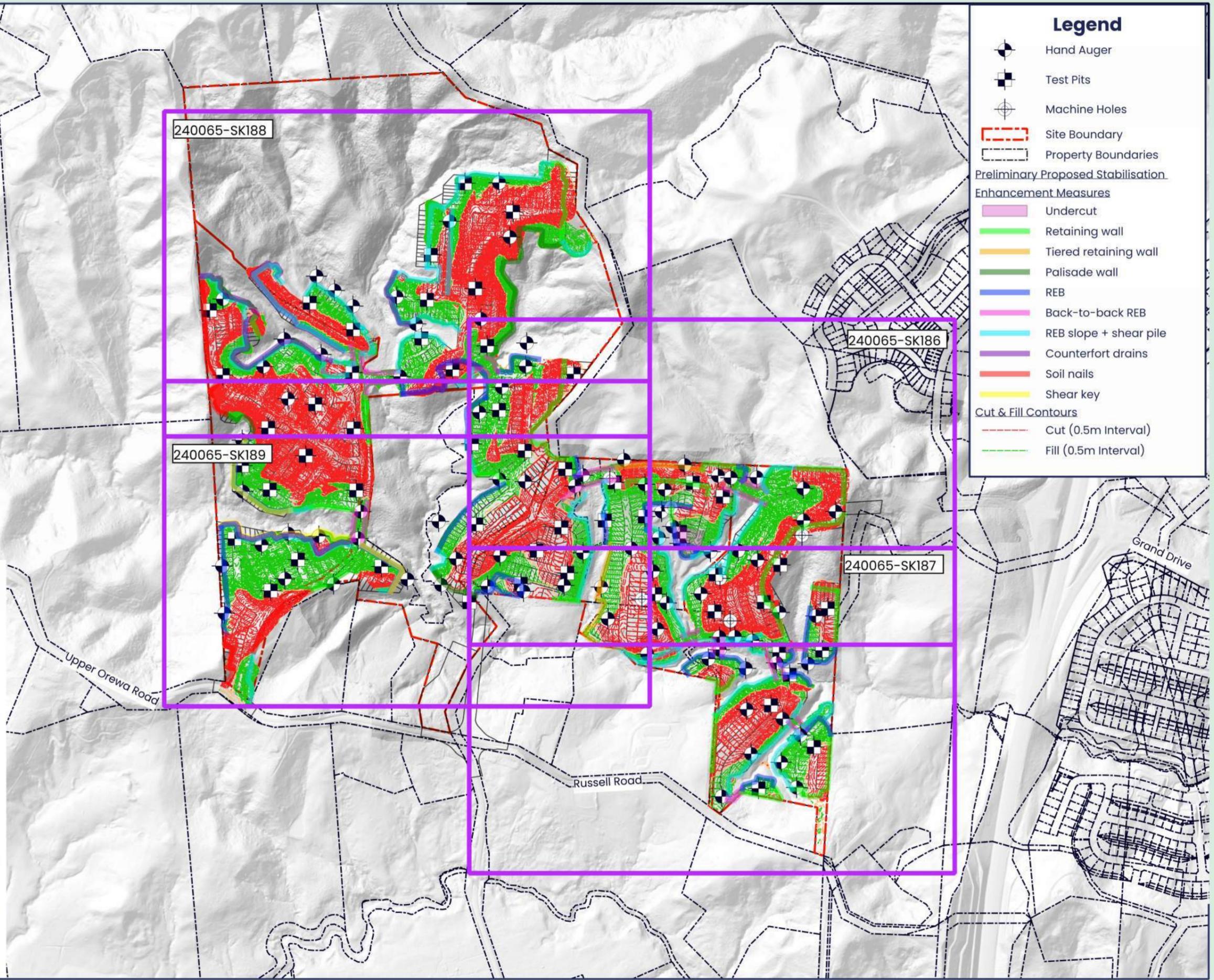
240065-SK189

240065-SK186

240065-SK187

### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Preliminary Proposed Stabilisation Enhancement Measures
  - Undercut
  - Retaining wall
  - Tiered retaining wall
  - Palisade wall
  - REB
  - Back-to-back REB
  - REB slope + shear pile
  - Counterfort drains
  - Soil nails
  - Shear key
- Cut & Fill Contours
  - Cut (0.5m Interval)
  - Fill (0.5m Interval)



Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:7500

FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION

Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Lot Boundaries

Cut/Fill contours

- Cut (0.5m Interval)
- Fill (0.5m Interval)
- 0m contour

Preliminary Proposed Stabilisation Enhancement Measures

- Retaining wall
- Tiered retaining wall
- Palisade wall
- REB
- REB slope + shear pile
- Back-to-back REB
- Soil nails
- Shear key
- Counterfort drains
- Undercut

Notes:

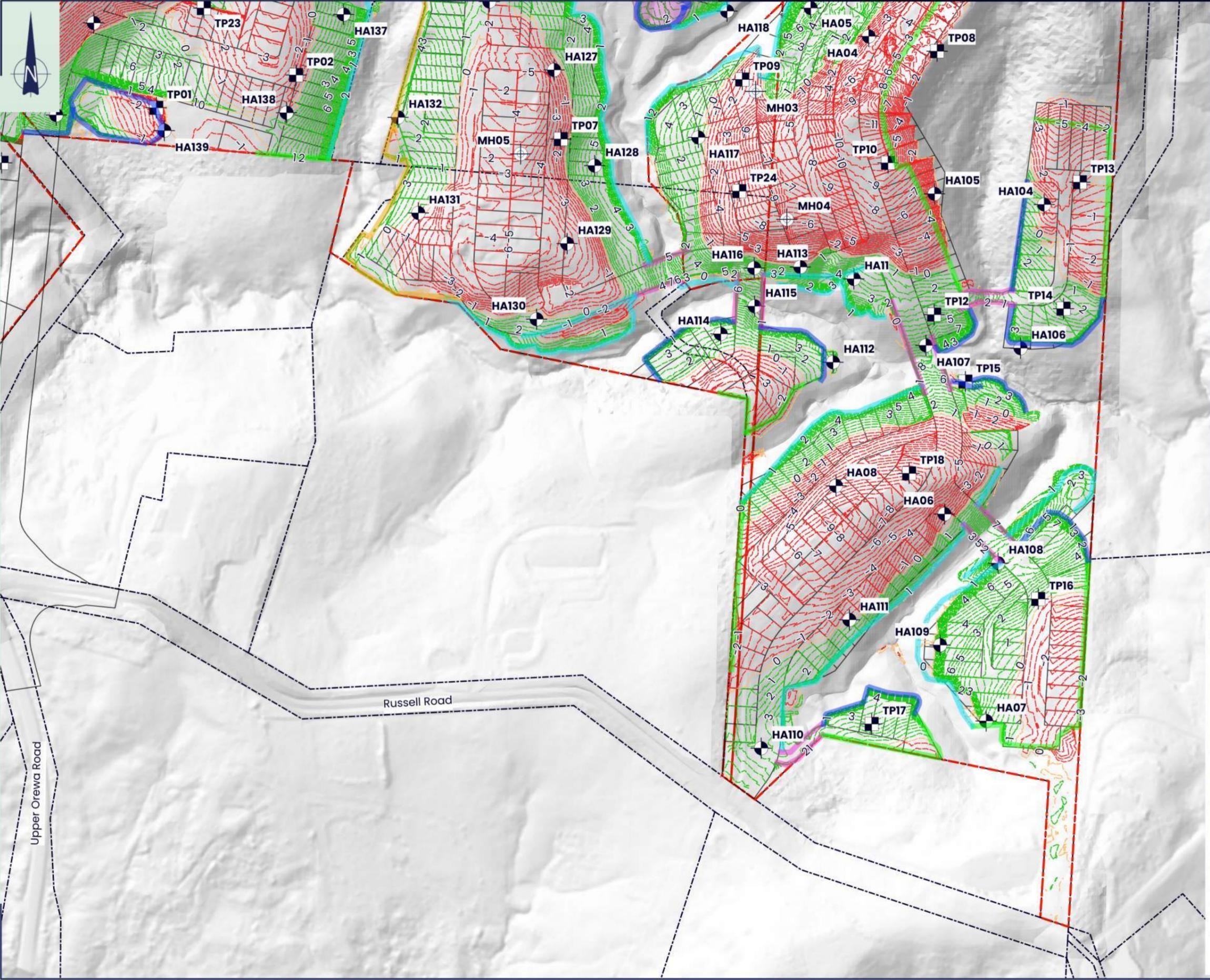
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
- Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
- Proposed lot development provided by Myland Partners, dated 10 December 2025.
- Property data taken from LINZ Data Service.
- Site investigation completed by Riley Consultants across November and December 2024.
- This sketch shows the indicative extent of the proposed stabilisation enhancement measures. Final extent and configurations is subject to detailed design and confirmation on site.
- Earthwork cut and fill profile generated from design ground surface provided by McKenzie & Co., dated 10 December 2025.



Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:2500

FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION

Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Lot Boundaries

**Cut/Fill contours**

- Cut (0.5m Interval)
- Fill (0.5m Interval)
- 0m contour

**Preliminary Proposed Stabilisation Enhancement Measures**

- Retaining wall
- Tiered retaining wall
- Palisade wall
- REB
- REB slope + shear pile
- Back-to-back REB
- Soil nails
- Shear key
- Counterfort drains
- Undercut

- Notes:
1. Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
  2. Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
  3. Proposed lot development provided by Myland Partners, dated 10 December 2025.
  4. Property data taken from LINZ Data Service.
  5. Site investigation completed by Riley Consultants across November and December 2024.
  6. This sketch shows the indicative extent of the proposed stabilisation enhancement measures. Final extent and configurations is subject to detailed design and confirmation on site.
  7. Earthwork cut and fill profile generated from design ground surface provided by McKenzie & Co., dated 10 December 2025.

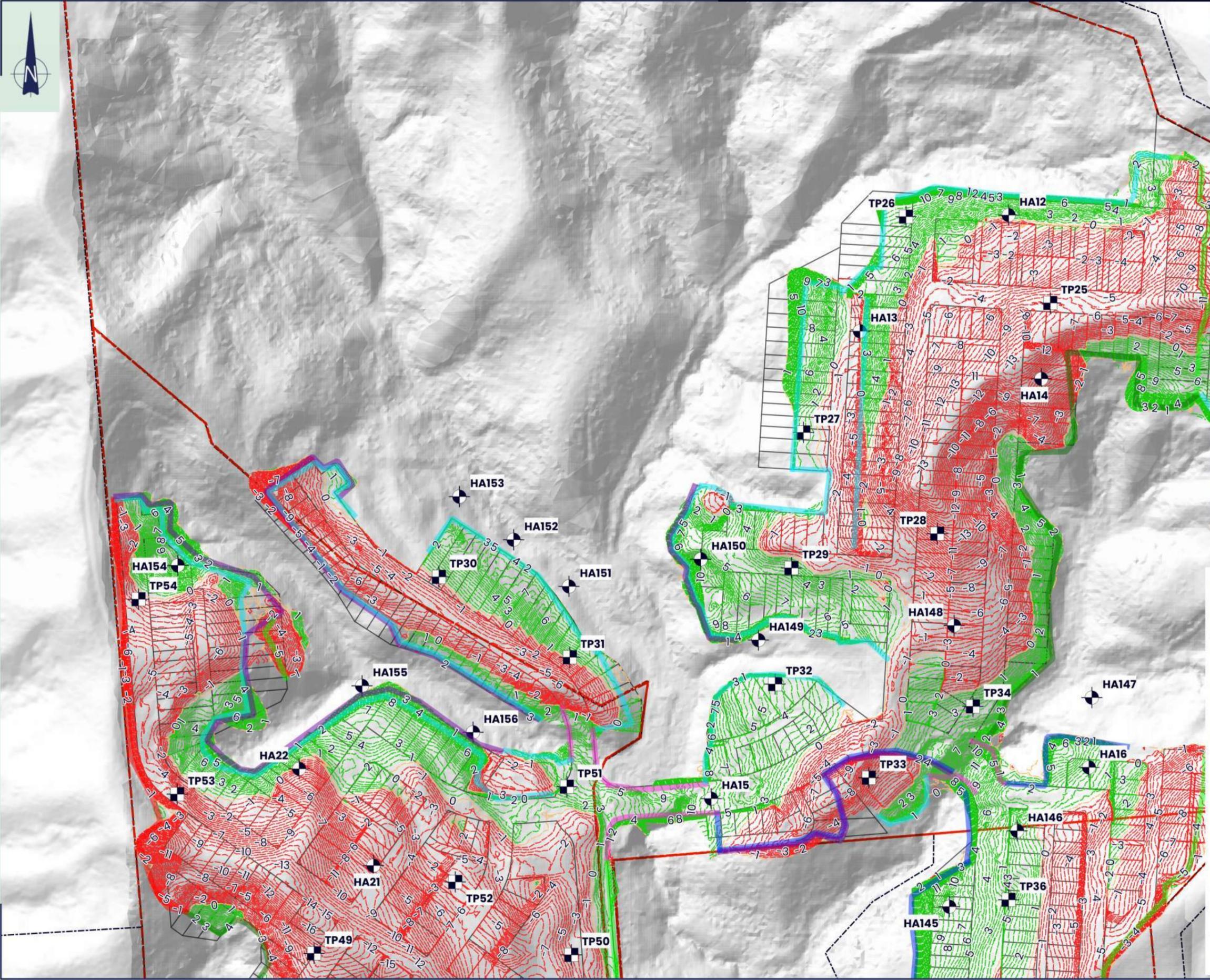


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Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Lot Boundaries

#### Cut/Fill contours

- Cut (0.5m Interval)
- Fill (0.5m Interval)
- 0m contour

#### Preliminary Proposed Stabilisation Enhancement Measures

- Retaining wall
- Tiered retaining wall
- Palisade wall
- REB
- REB slope + shear pile
- Back-to-back REB
- Soil nails
- Shear key
- Counterfort drains
- Undercut

Notes:

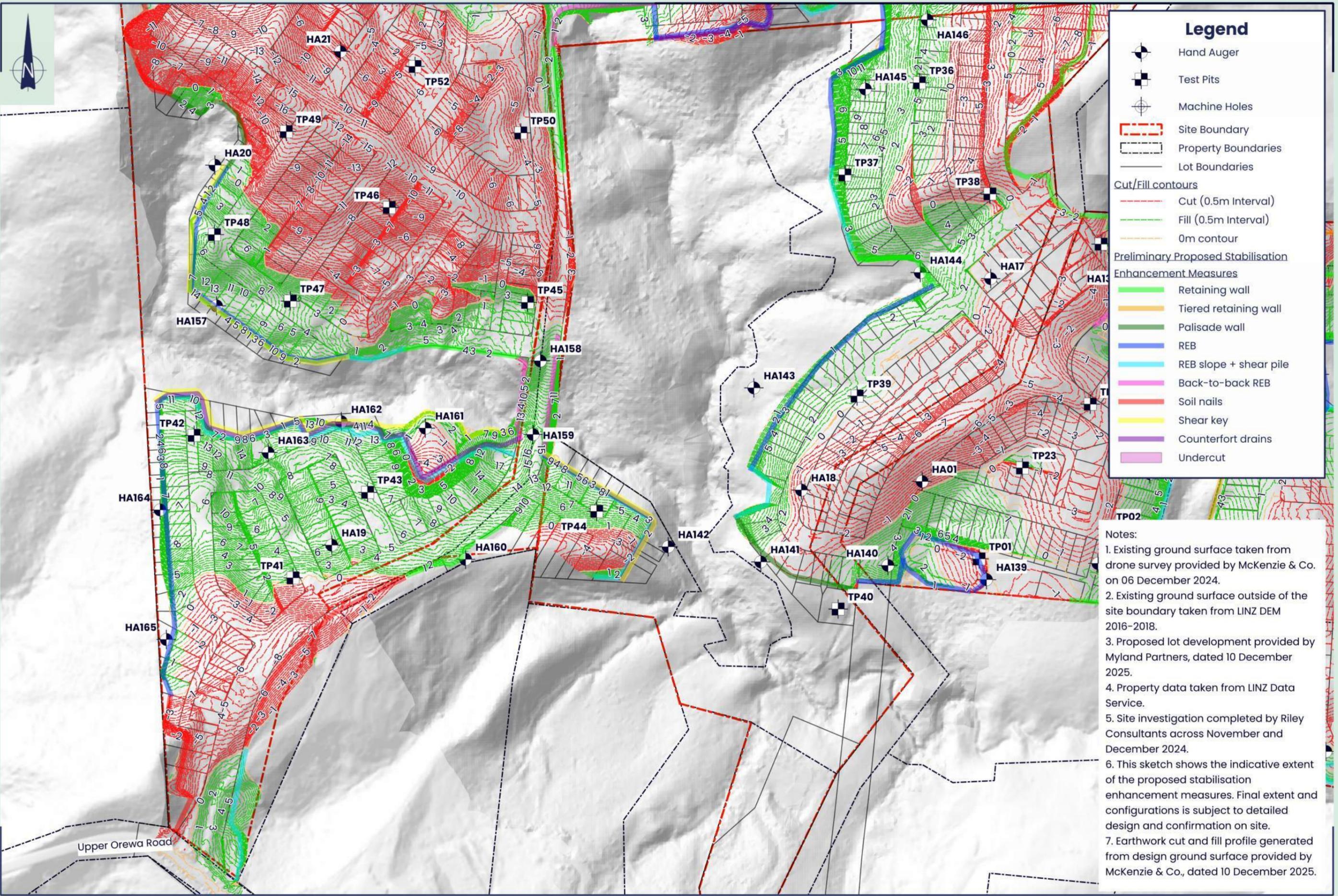
- Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
- Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
- Proposed lot development provided by Myland Partners, dated 10 December 2025.
- Property data taken from LINZ Data Service.
- Site investigation completed by Riley Consultants across November and December 2024.
- This sketch shows the indicative extent of the proposed stabilisation enhancement measures. Final extent and configurations is subject to detailed design and confirmation on site.
- Earthwork cut and fill profile generated from design ground surface provided by McKenzie & Co., dated 10 December 2025.

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NOT FOR CONSENTING OR CONSTRUCTION



Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Lot Boundaries

**Cut/Fill contours**

- Cut (0.5m Interval)
- Fill (0.5m Interval)
- 0m contour

**Preliminary Proposed Stabilisation Enhancement Measures**

- Retaining wall
- Tiered retaining wall
- Palisade wall
- REB
- REB slope + shear pile
- Back-to-back REB
- Soil nails
- Shear key
- Counterfort drains
- Undercut

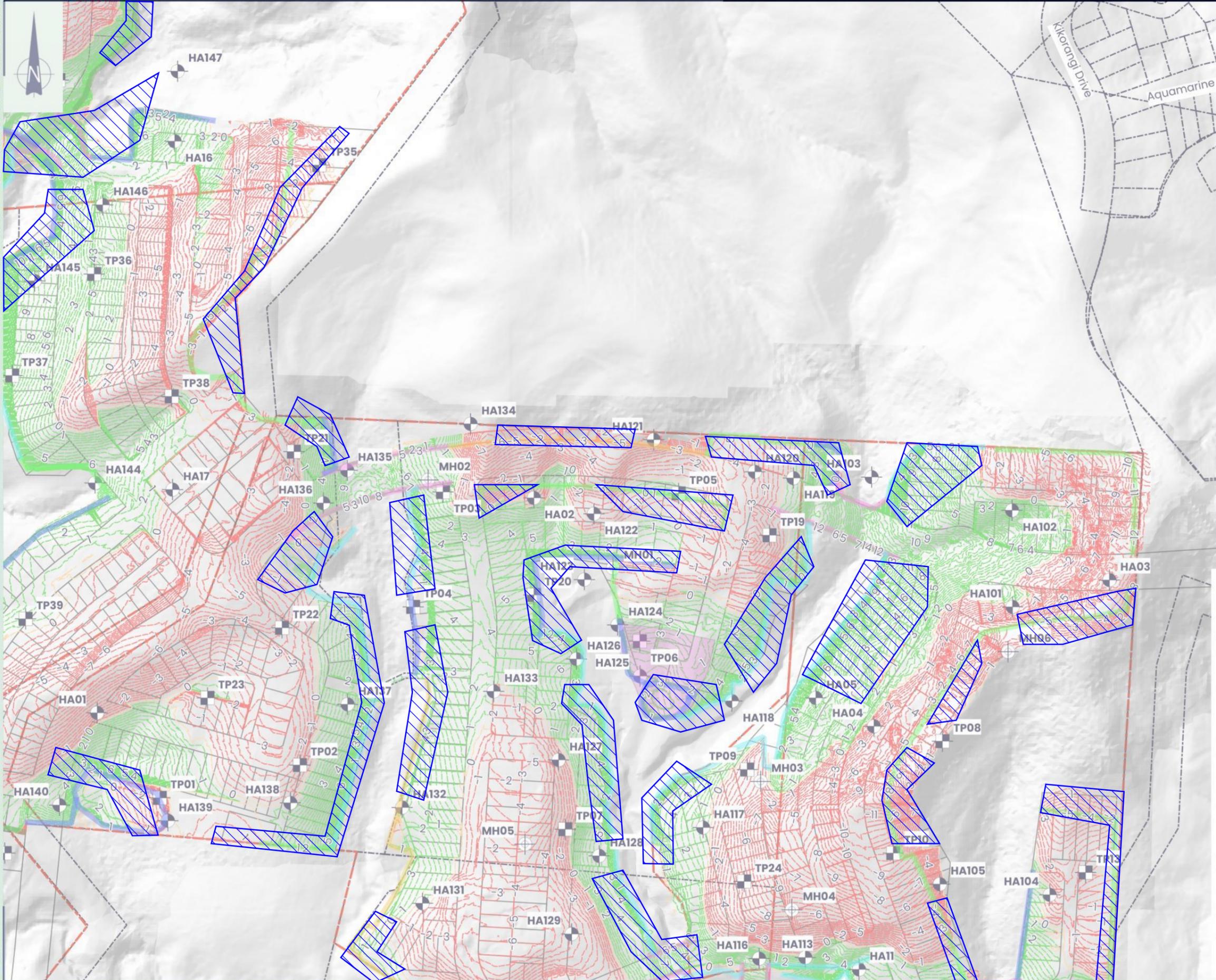
**Notes:**

1. Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
2. Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
3. Proposed lot development provided by Myland Partners, dated 10 December 2025.
4. Property data taken from LINZ Data Service.
5. Site investigation completed by Riley Consultants across November and December 2024.
6. This sketch shows the indicative extent of the proposed stabilisation enhancement measures. Final extent and configurations is subject to detailed design and confirmation on site.
7. Earthwork cut and fill profile generated from design ground surface provided by McKenzie & Co., dated 10 December 2025.

Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:2500

FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION

Scale: 1:2500 (A3)  
240 m  
180  
120  
60  
0



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Lot Boundaries

**Cut/Fill contours**

- Cut (0.5m Interval)
- Fill (0.5m Interval)
- 0m contour

**Preliminary Proposed Stabilisation Enhancement Measures**

- Retaining wall
- Tiered retaining wall
- Palisade wall
- REB
- REB slope + shear pile
- Back-to-back REB
- Soil nails
- Shear key
- Counterfort drains
- Undercut
- Future investigation areas

**Notes:**

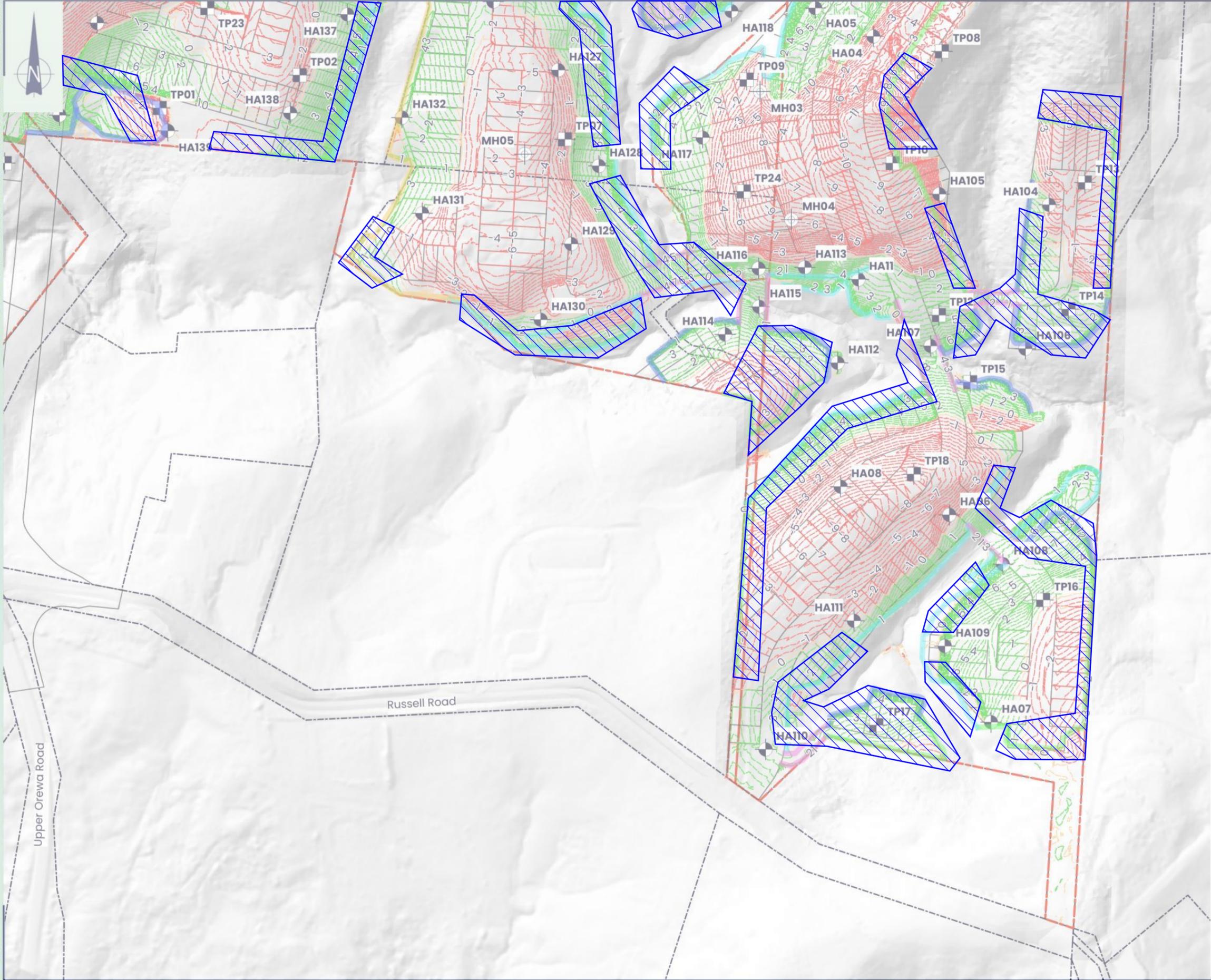
1. Existing ground surface taken from drone survey provided by McKenzie & Co. on 06 December 2024.
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4. Property data taken from LINZ Data Service.
5. Site investigation completed by Riley Consultants across November and December 2024.
6. This sketch shows the indicative extent of the proposed stabilisation enhancement measures. Final extent and configurations is subject to detailed design and confirmation on site.
7. Earthwork cut and fill profile generated from design ground surface provided by McKenzie & Co., dated 10 December 2025.



Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:2500

FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION

Scale: 1:2500 (A3)  
240 m  
180  
60  
0



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Lot Boundaries

**Cut/Fill contours**

- Cut (0.5m Interval)
- Fill (0.5m Interval)
- 0m contour

**Preliminary Proposed Stabilisation Enhancement Measures**

- Retaining wall
- Tiered retaining wall
- Palisade wall
- REB
- REB slope + shear pile
- Back-to-back REB
- Soil nails
- Shear key
- Counterfort drains
- Undercut
- Future investigation areas

**Notes:**

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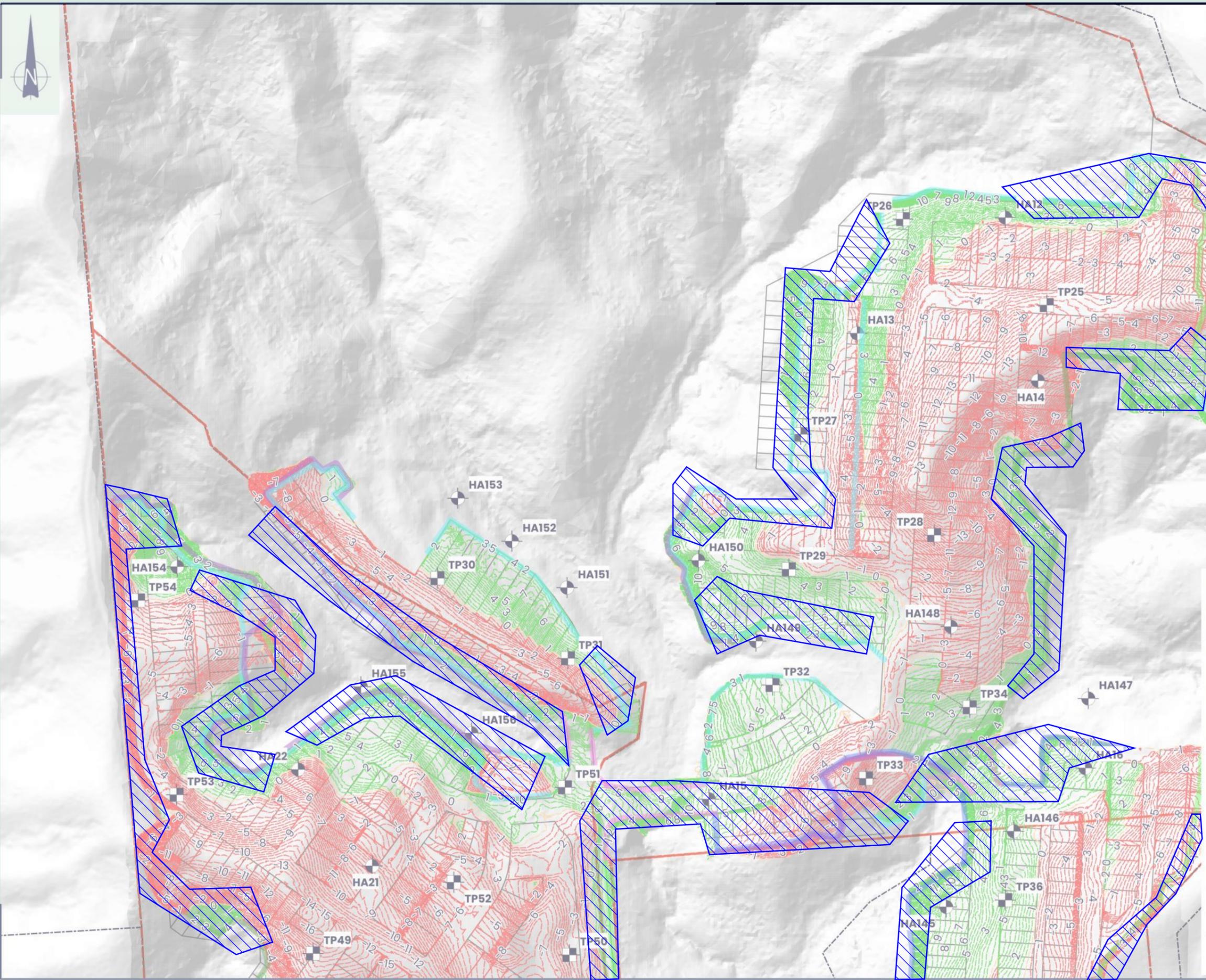


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Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Lot Boundaries
- Cut/Fill contours**
  - Cut (0.5m Interval)
  - Fill (0.5m Interval)
  - 0m contour
- Preliminary Proposed Stabilisation Enhancement Measures**
  - Retaining wall
  - Tiered retaining wall
  - Palisade wall
  - REB
  - REB slope + shear pile
  - Back-to-back REB
  - Soil nails
  - Shear key
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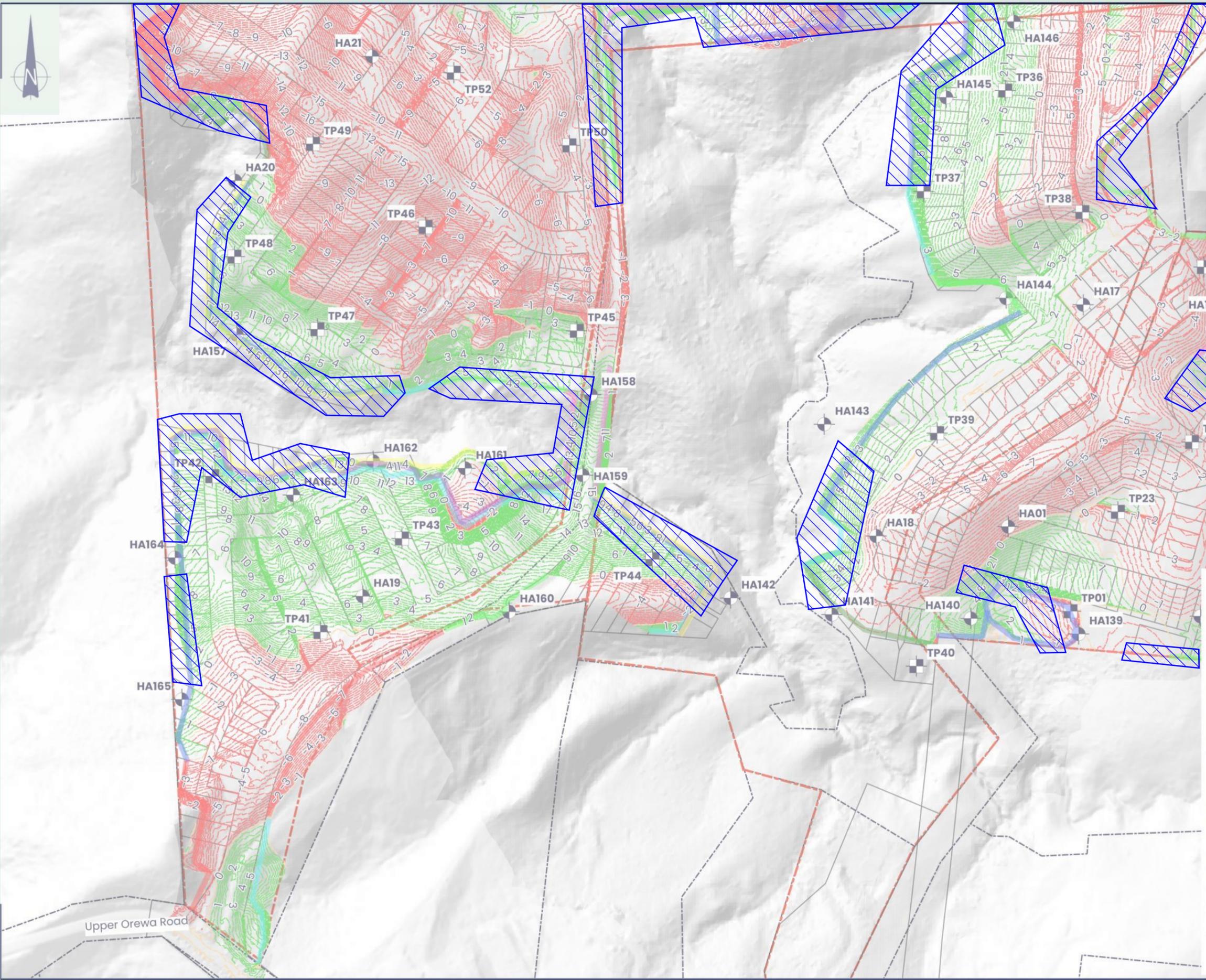
Project Number: 240065 | Drawn by aboyd | Date printed: 19/12/2025 | Scale: 1:2500



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Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

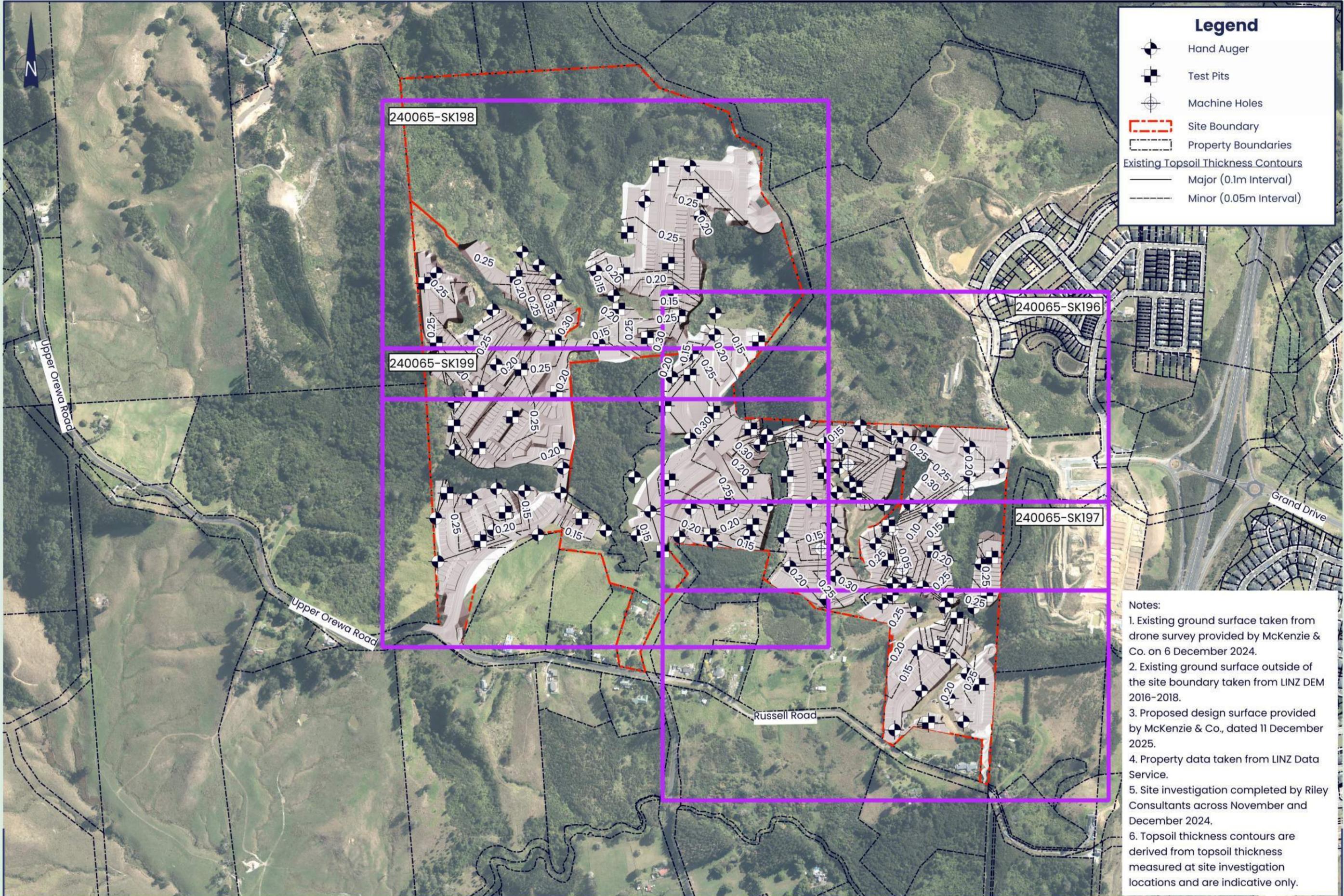
- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Lot Boundaries
- Cut/Fill contours**
  - Cut (0.5m Interval)
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**Legend**

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries

Existing Topsoil Thickness Contours

- Major (0.1m Interval)
- Minor (0.05m Interval)

Notes:

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5. Site investigation completed by Riley Consultants across November and December 2024.
6. Topsoil thickness contours are derived from topsoil thickness measured at site investigation locations and are indicative only.

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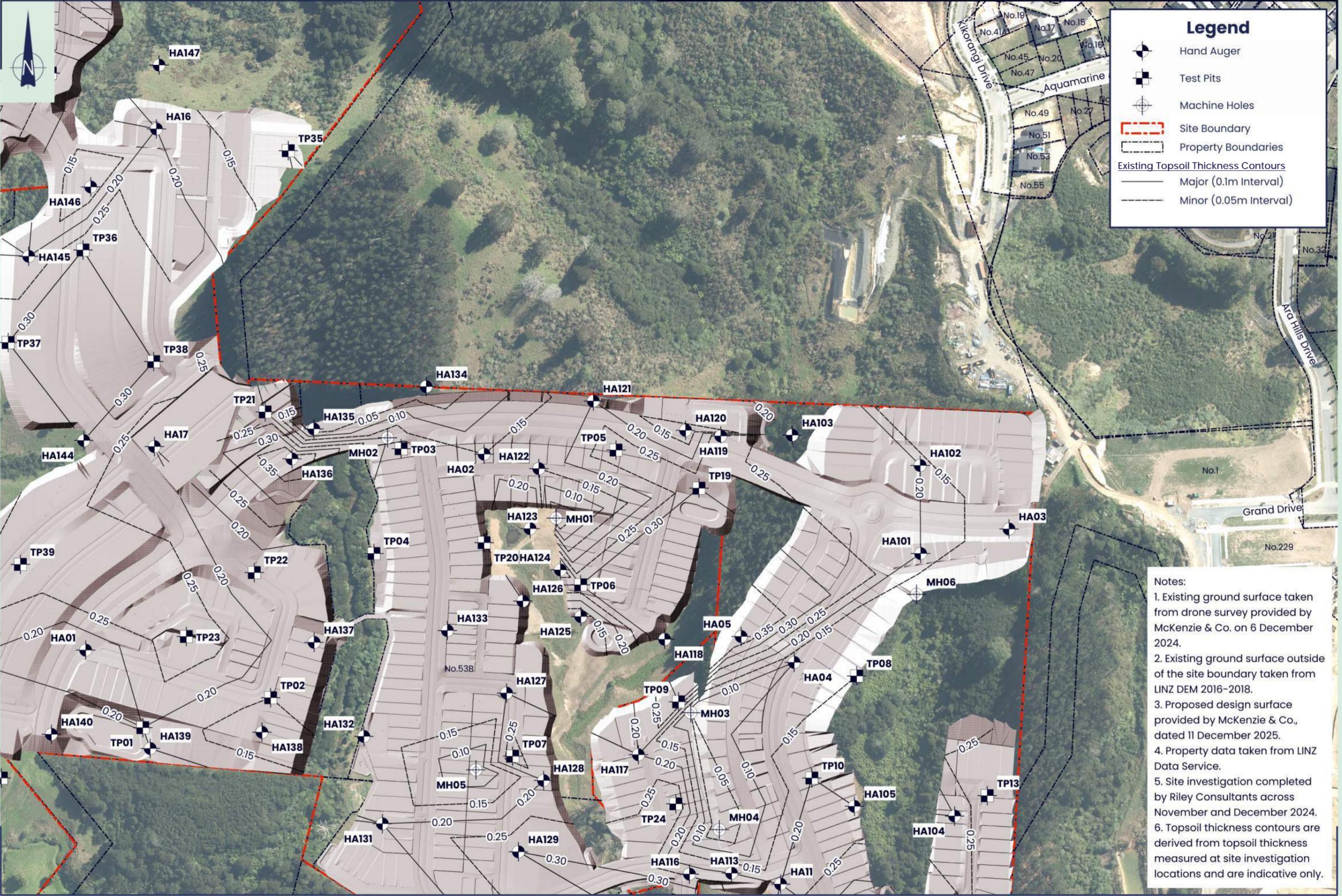


Vineway Ltd  
 Russell Road, Wainui – Delmore  
 Existing Topsoil Contours - Overview

Sketch: 240065-SK195 (Rev B)  
 Drawn By AB | Checked By JLB  
 Approved By BB | 19/12/2025

FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION

Scale: 1:2500 (A3)  
240 m  
180  
120  
60  
0



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Existing Topsoil Thickness Contours**
  - Major (0.1m Interval)
  - Minor (0.05m Interval)

Notes:

- Existing ground surface taken from drone survey provided by McKenzie & Co. on 6 December 2024.
- Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
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Vineway Ltd  
 Russell Road, Wainui - Delmore  
 Existing Topsoil Contours - Sheet 1 of 4

Sketch: 240065-SK196 (Rev B)  
 Drawn By AB | Checked By JLB  
 Approved By BB | 19/12/2025

Project Number: 240065 | Drawn by aboyd | Date printed: 12/12/2025 | Scale: 1:2500

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Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Existing Topsoil Thickness Contours**
- Major (0.1m Interval)
- Minor (0.05m Interval)

**Notes:**

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**Vinway Ltd**  
**Russell Road, Wainui - Delmore**  
 Existing Topsoil Contours - Sheet 2 of 4

**Sketch: 240065-SK197 (Rev B)**  
 Drawn By AB | Checked By JLB  
 Approved By BB | 19/12/2025

Project Number: 240065 | Drawn by aboyd | Date printed: 12/12/2025 | Scale: 1:2500

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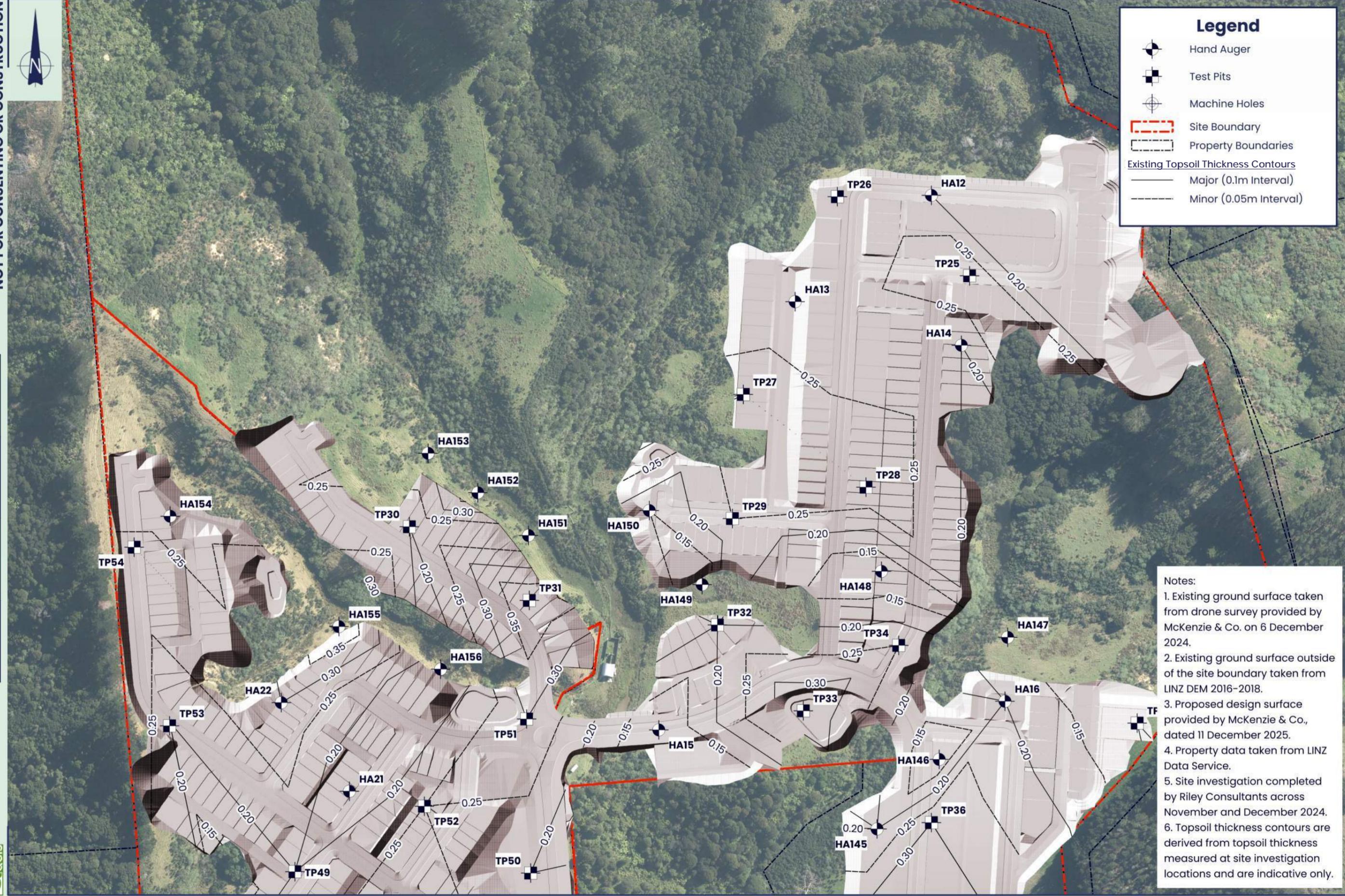


Scale: 1:2500 (A3)  
0 60 120 180 240 m



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Existing Topsoil Thickness Contours**
  - Major (0.1m Interval)
  - Minor (0.05m Interval)



**Notes:**

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Project Number: 240065 | Drawn by aboyd | Date printed: 12/12/2025 | Scale: 1:2500



**Vineway Ltd**  
 Russell Road, Wainui – Delmore  
 Existing Topsoil Contours - Sheet 3 of 4

**Sketch: 240065-SK198 (Rev B)**  
 Drawn By AB | Checked By JLB  
 Approved By BB | 19/12/2025

FOR PRELIMINARY QUANTITIES ONLY/  
NOT FOR CONSENTING OR CONSTRUCTION



### Legend

- Hand Auger
- Test Pits
- Machine Holes
- Site Boundary
- Property Boundaries
- Existing Topsoil Thickness Contours
- Major (0.1m Interval)
- Minor (0.05m Interval)

Notes:

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- Existing ground surface outside of the site boundary taken from LINZ DEM 2016-2018.
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Scale: 1:2500 (A3)  
0 60 120 180 240 m



**Vineway Ltd**  
 Russell Road, Wainui - Delmore  
 Existing Topsoil Contours - Sheet 4 of 4

**Sketch: 240065-SK199 (Rev B)**  
 Drawn By AB | Checked By JLB  
 Approved By BB | 19/12/2025

Project Number: 240065 | Drawn by aboyd | Date printed: 12/12/2025 | Scale: 1:2500

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