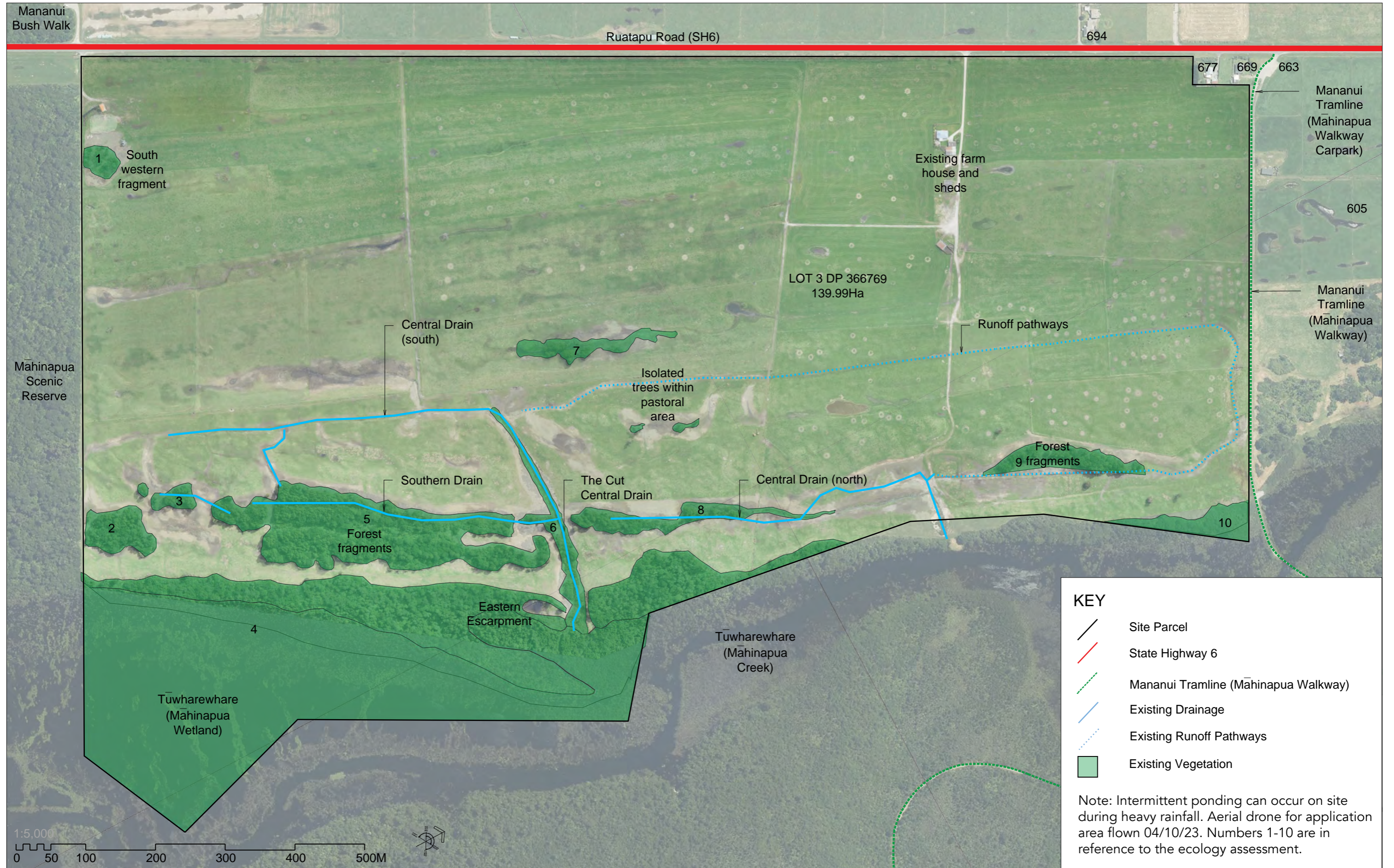




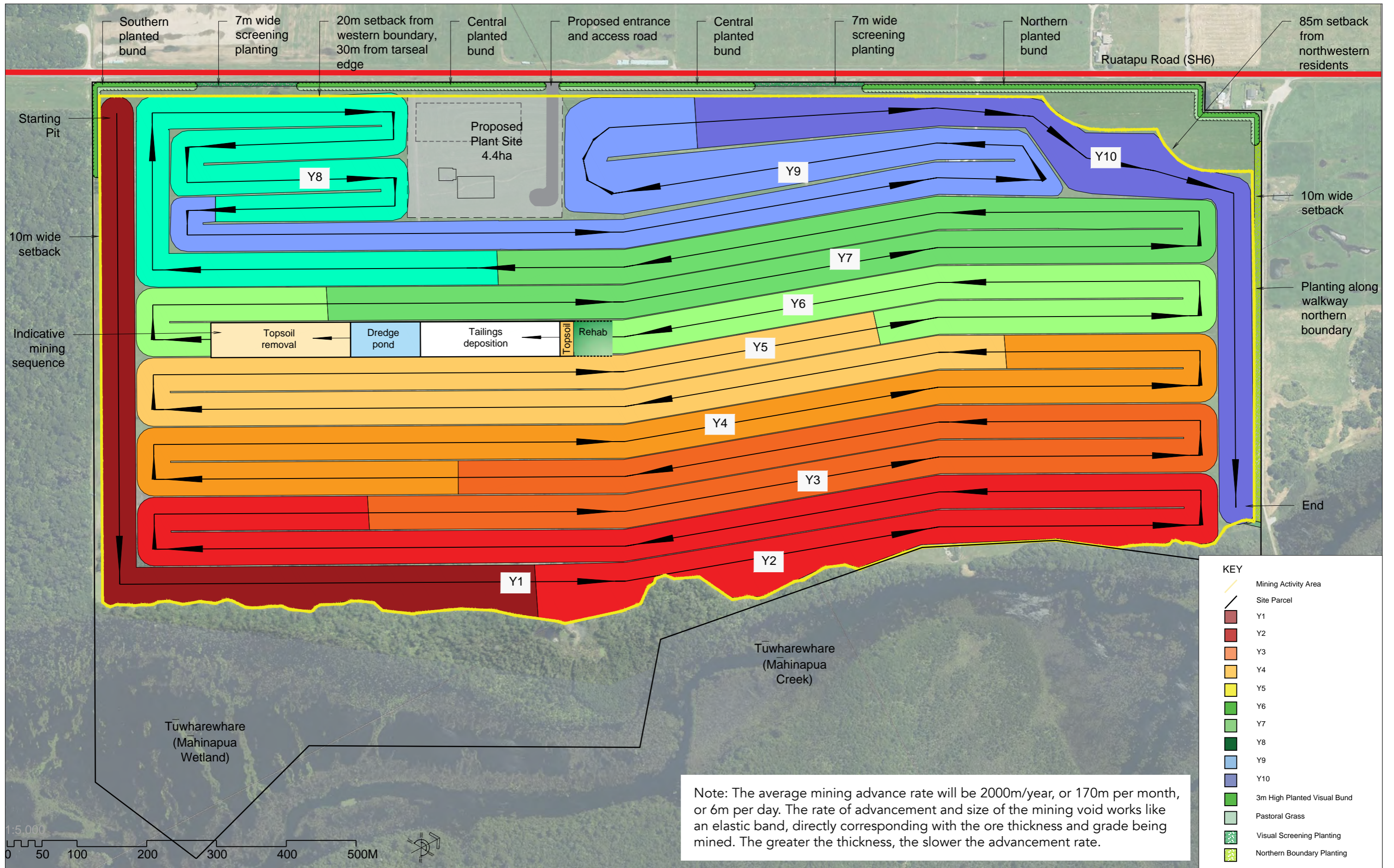
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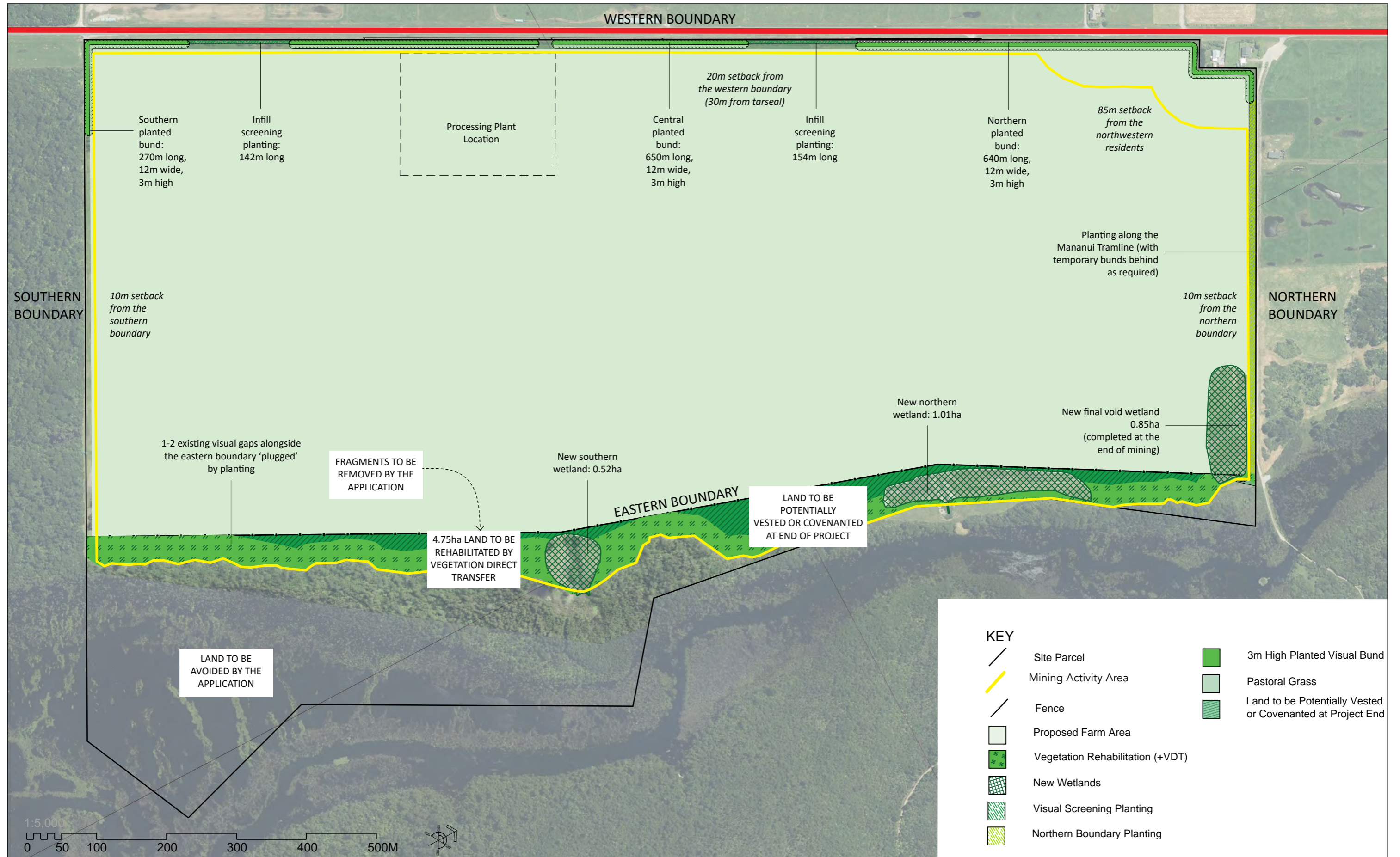
1.0 EXISTING SITE PLAN



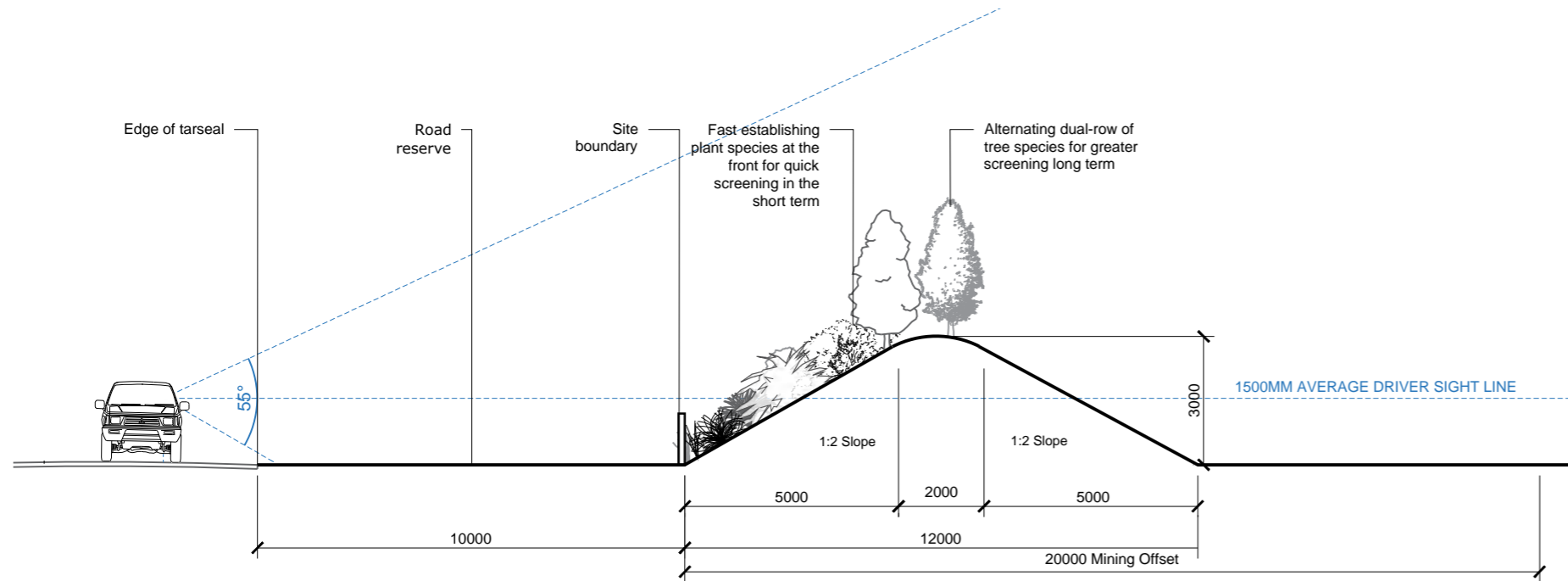
2.0 MINING APPLICATION PLAN



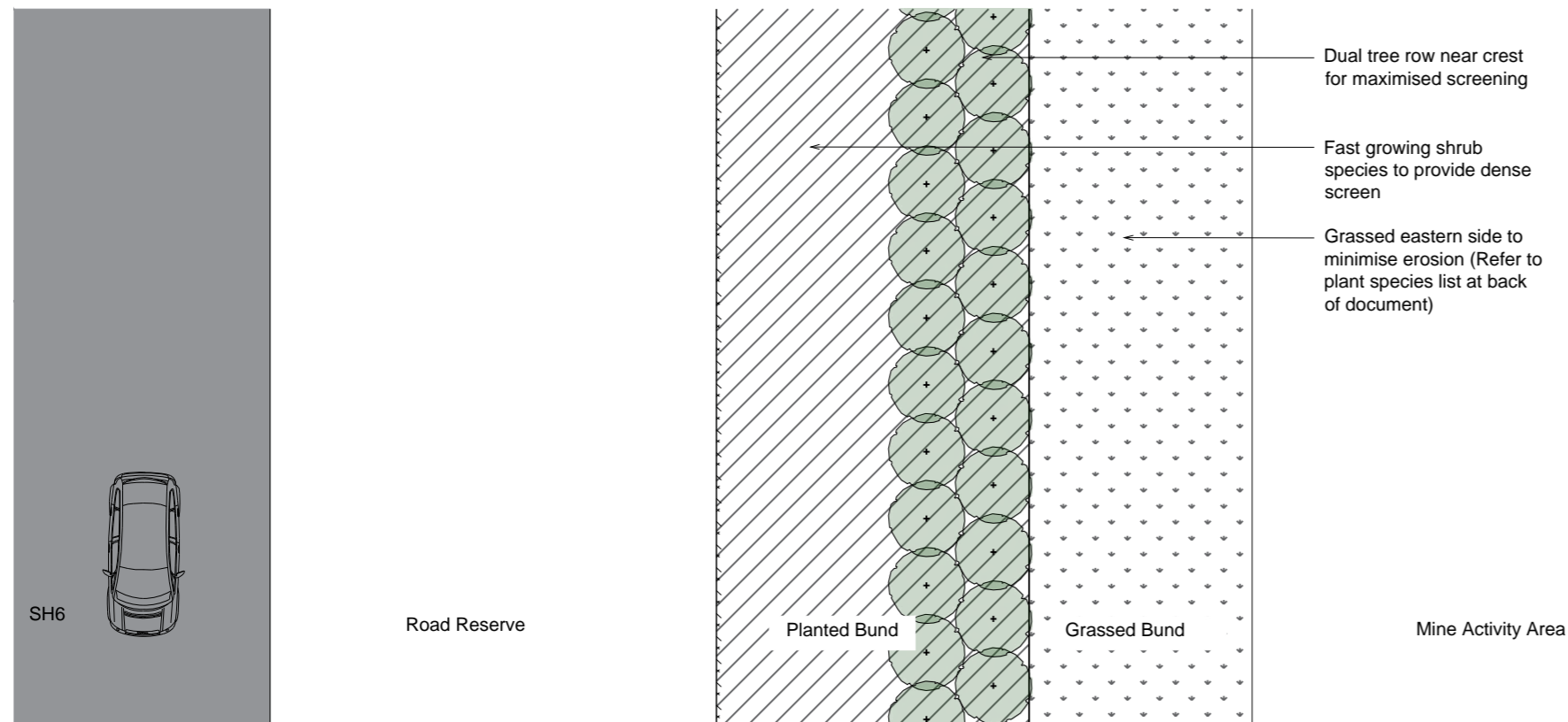
3.0 LANDSCAPE MITIGATION PLAN



4.0 WESTERN (SH6) BOUNDARY MITIGATION: PLANTED BUNDS



1 SH6 Planted Bund Indicative Section
Scale: 1:150

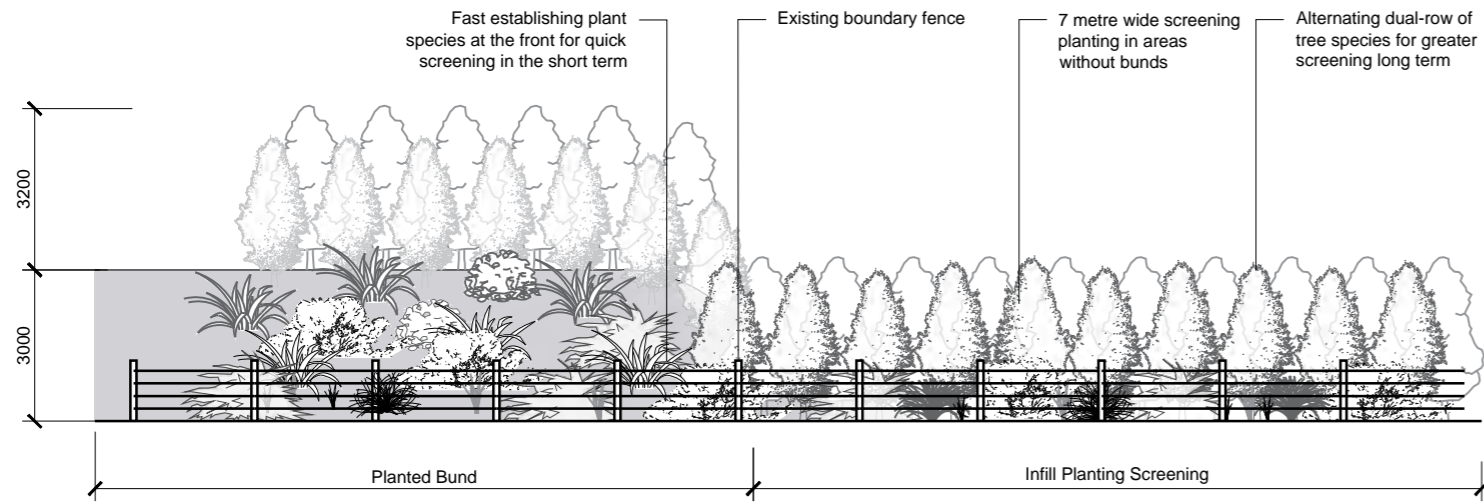


2 SH6 Planted Bund Indicative Plan
Scale: 1:150

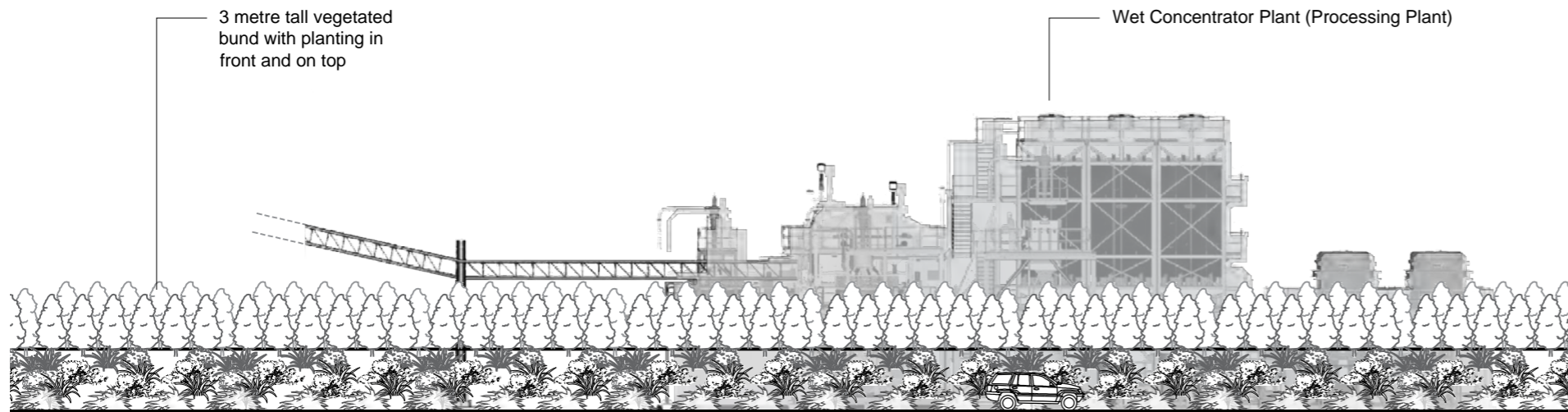
Note:

- The mitigation measures on the western boundary are located within the 20m mining activity setback from SH6 (30m from the edge of tarseal).
- Mitigation measures are designed to mitigate the adverse visual and landscape effects generated by the mining activity, traffic, the Processing Plant and ancillary structures.
- Planting will occur on the top and western faces of the bund and will consist of native shrubs and trees. The eastern 'inside' face will have pastoral grass cover.

5.0 WESTERN (SH6) BOUNDARY MITIGATION: INFILL PLANTING AND BUNDS



1 SH6 Planted Bund - Illustrating Transition Between Bund and Infill Planting
Scale: 1:150

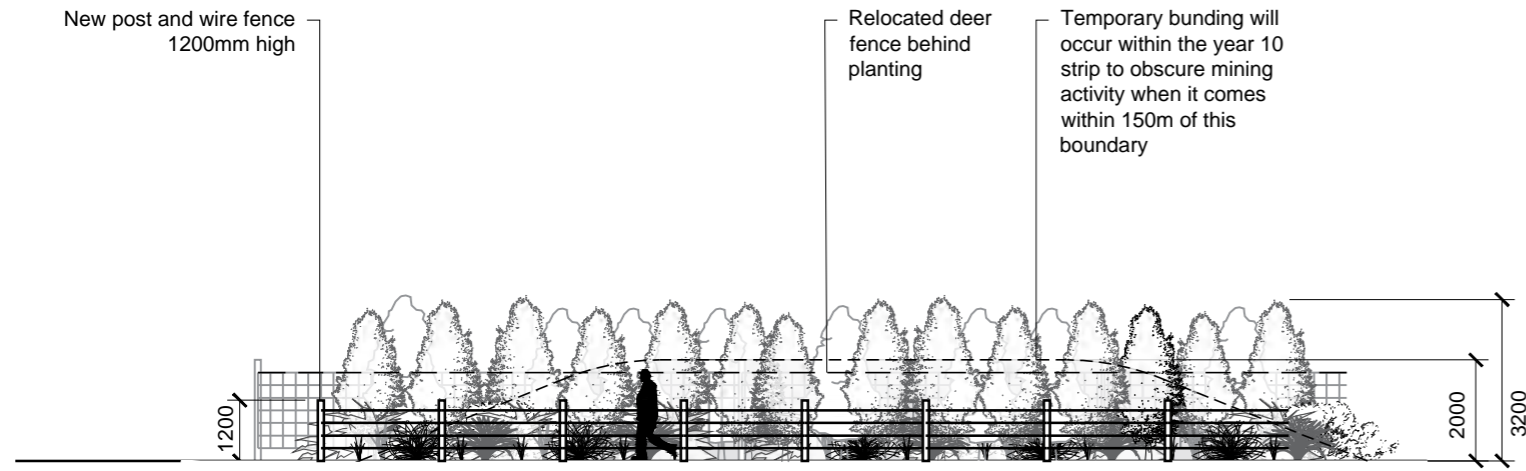


2 SH6 Planted Bund Indicative Section Elevation (facing east)
Scale: 1:300

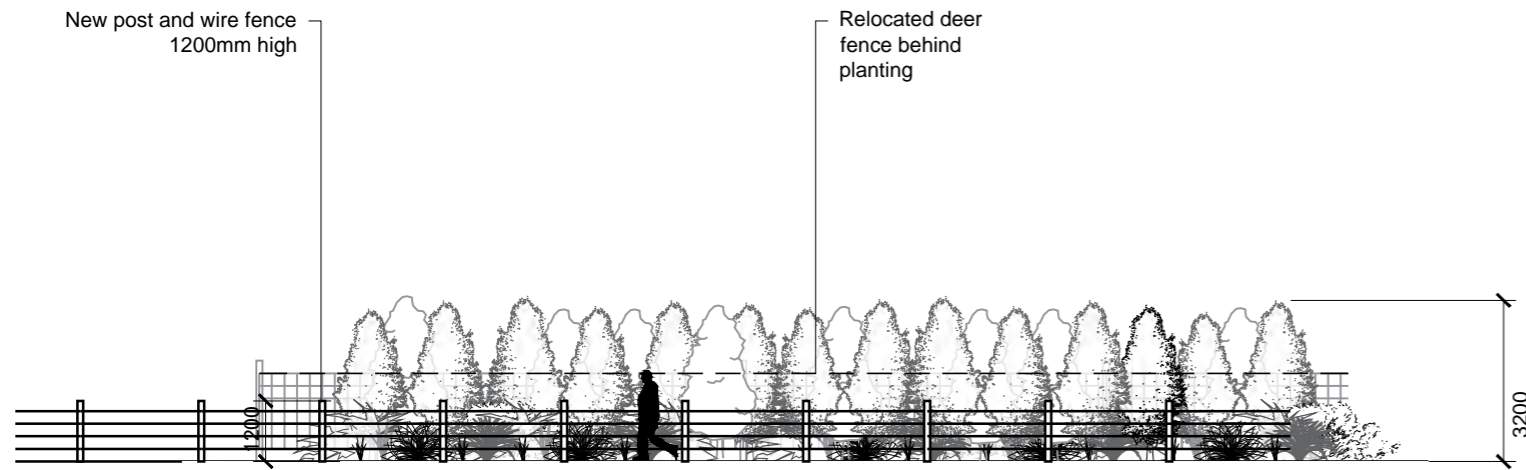
Note:

- Indicative section/elevation shows relationship between the Processing Plant and the planted bund, with the bund providing visual screening for the bottom third of the structures.

6.0 NORTHERN (WALKWAY) BOUNDARY MITIGATION: PERMANENT PLANTING AND TEMPORARY BUNDS



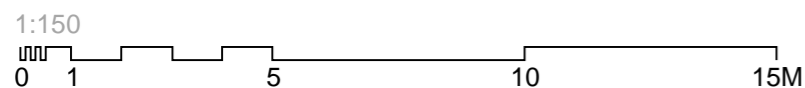
1 South-Facing View from Mananui Tramline (with temporary bund)
Scale: 1:150



2 South-Facing View from Mananui Tramline (without bund)
Scale: 1:150

Note:

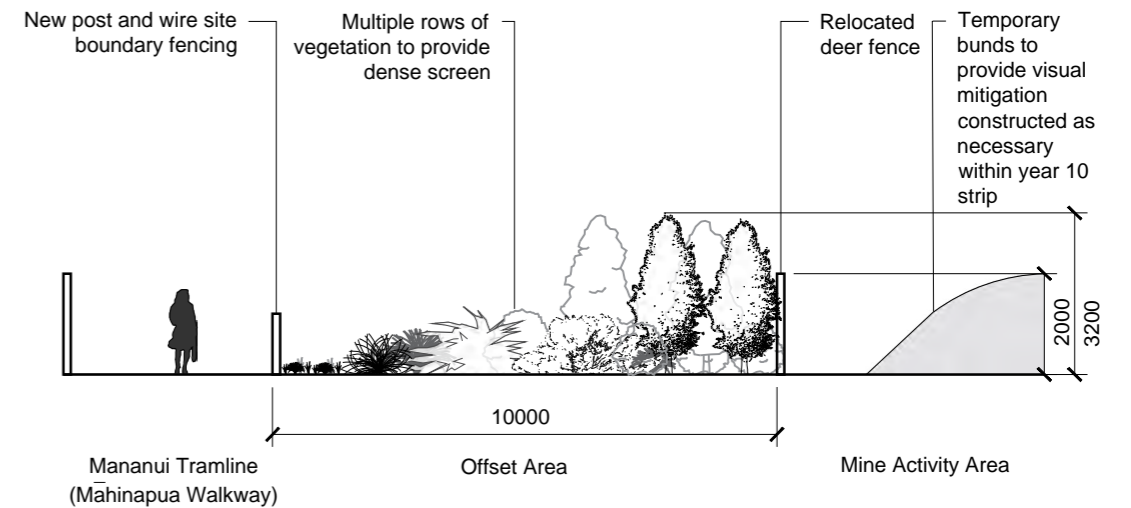
- The new planting occupies the 10m setback area alongside the walkway.
- Planting will consist of native shrubs and trees, gradually increasing in height the further from the walkway.
- Mitigation measures aim to reduce the visual effect of the mining activity as it comes closer to the northern boundary and also assist with softening the Processing Plant in the distance.
- These mitigation measures will also enhance the walkway edge, a positive effect of the Project that will remain in perpetuity.



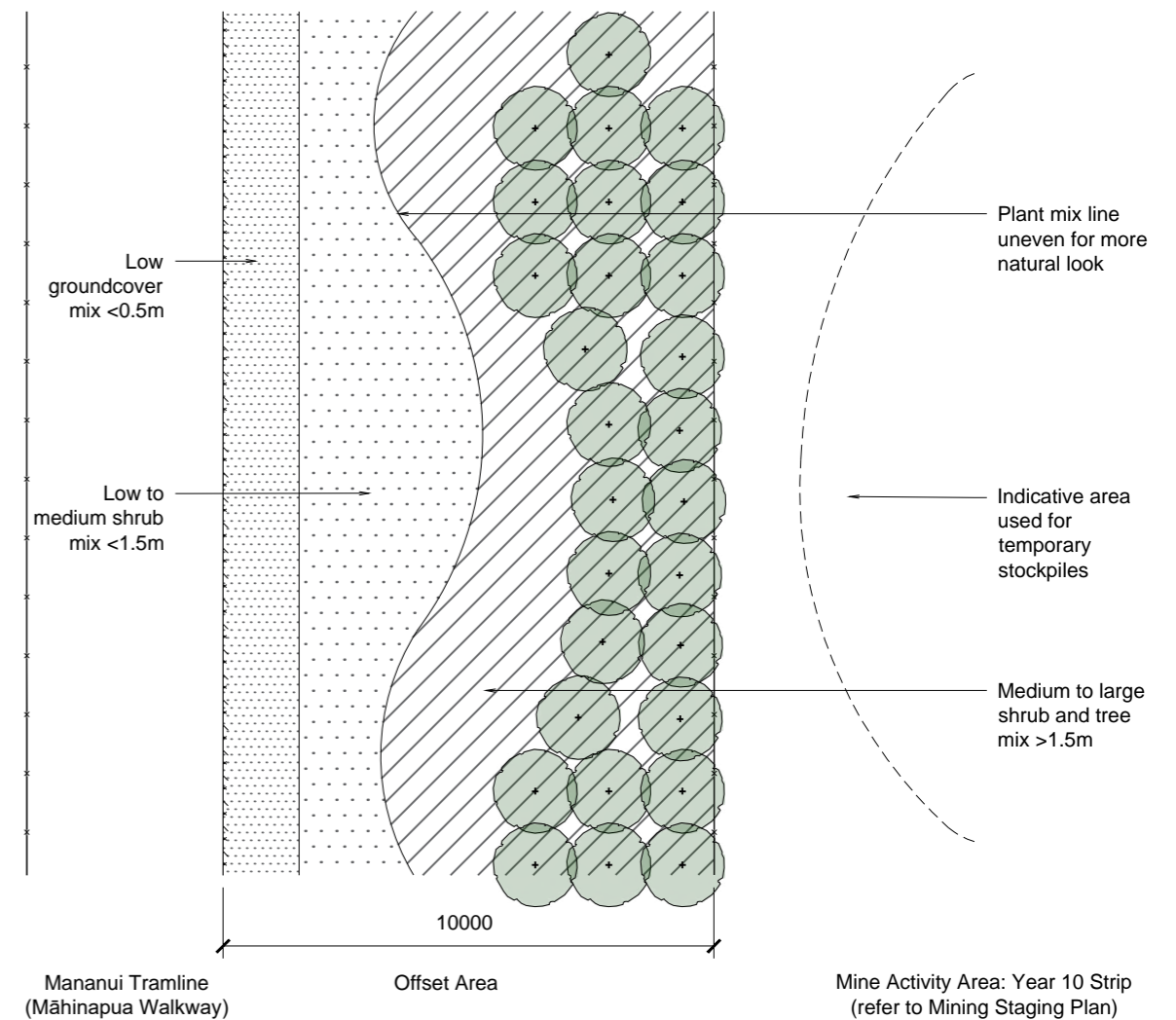
KEY

- 2.0m High Deer Fence
- 1.2m High Post-and-Wire Fence
- Tree
- Low Groundcover Mix <0.5m
- Low to Medium Shrub Mix <1.5m
- Medium to Large Shrub and Tree Mix >1.5m

Refer to plant species list at back of document

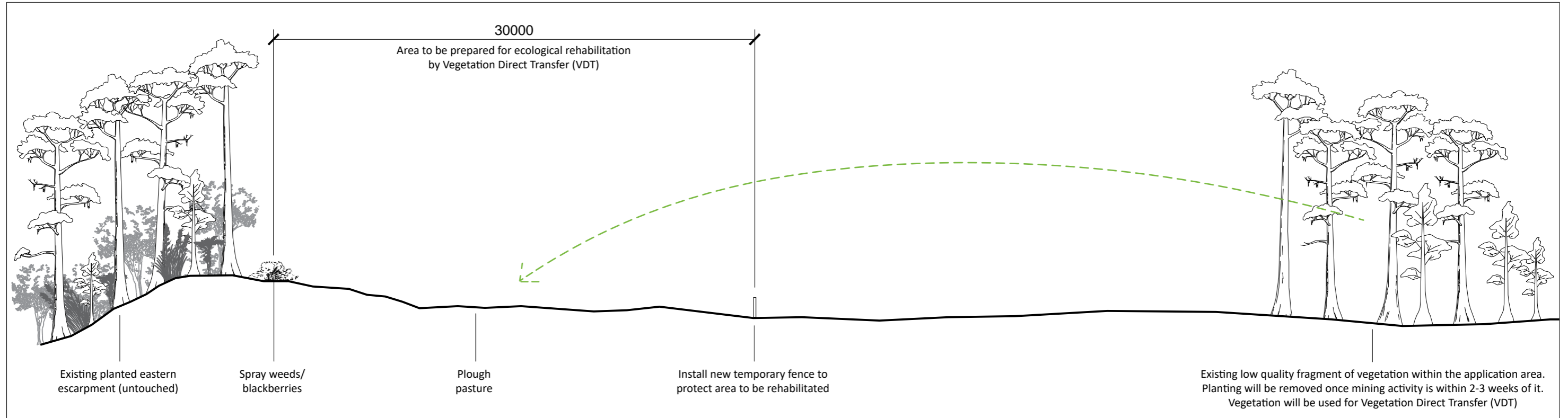


3 Side Section View from Māhinapua Walkway
Scale: 1:150

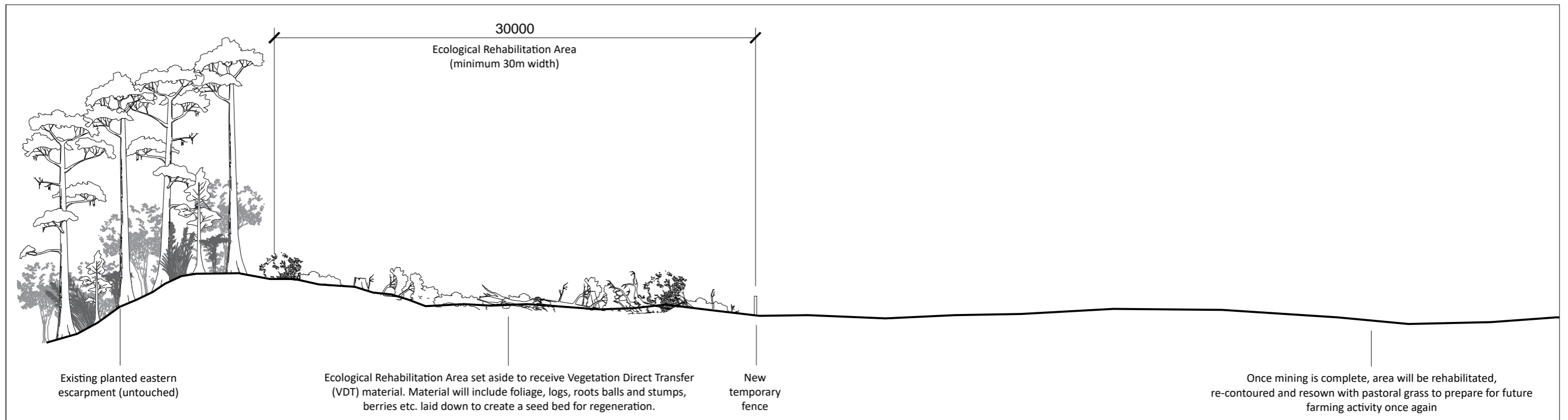


4 Typical Mananui Tramline Mitigation Plan
Scale: 1:150

7.0 EASTERN BOUNDARY ECOLOGICAL REHABILITATION AREA: PHASES 1 AND 2

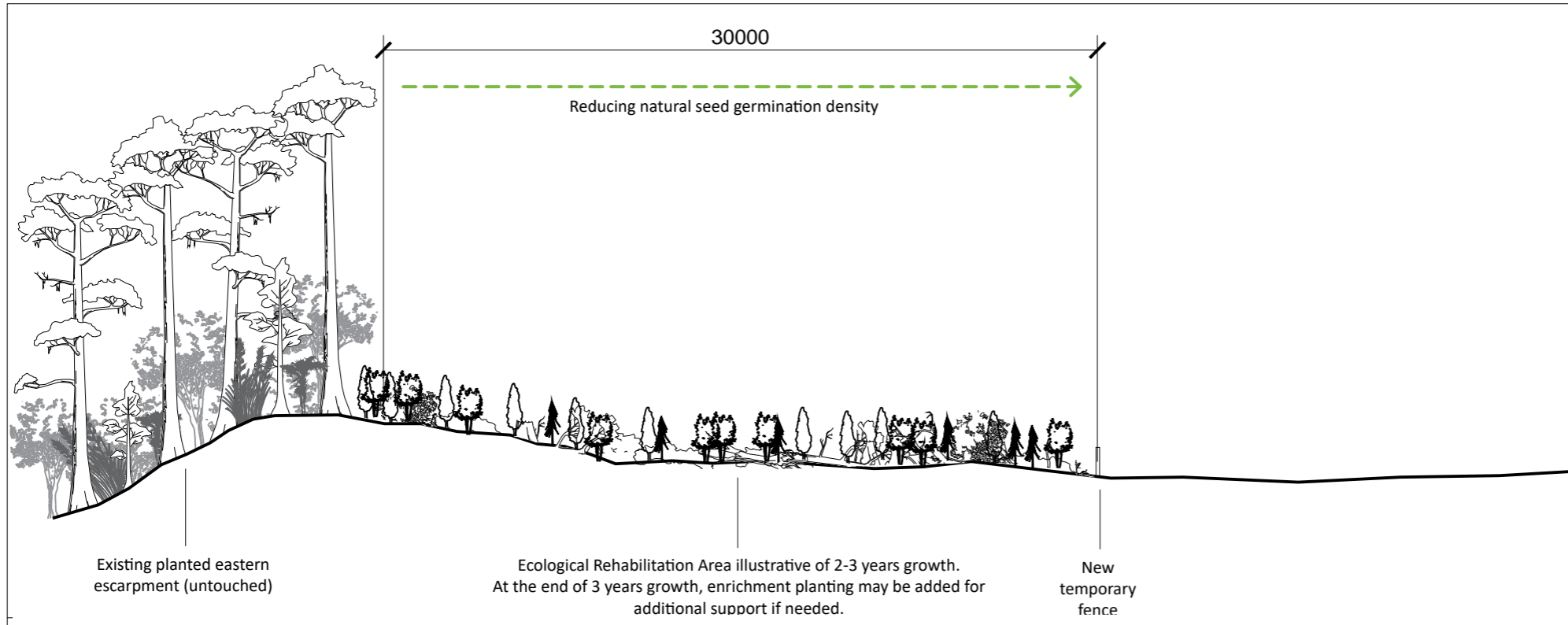


1 Phase 1: Site Preparation
Scale: 1:250

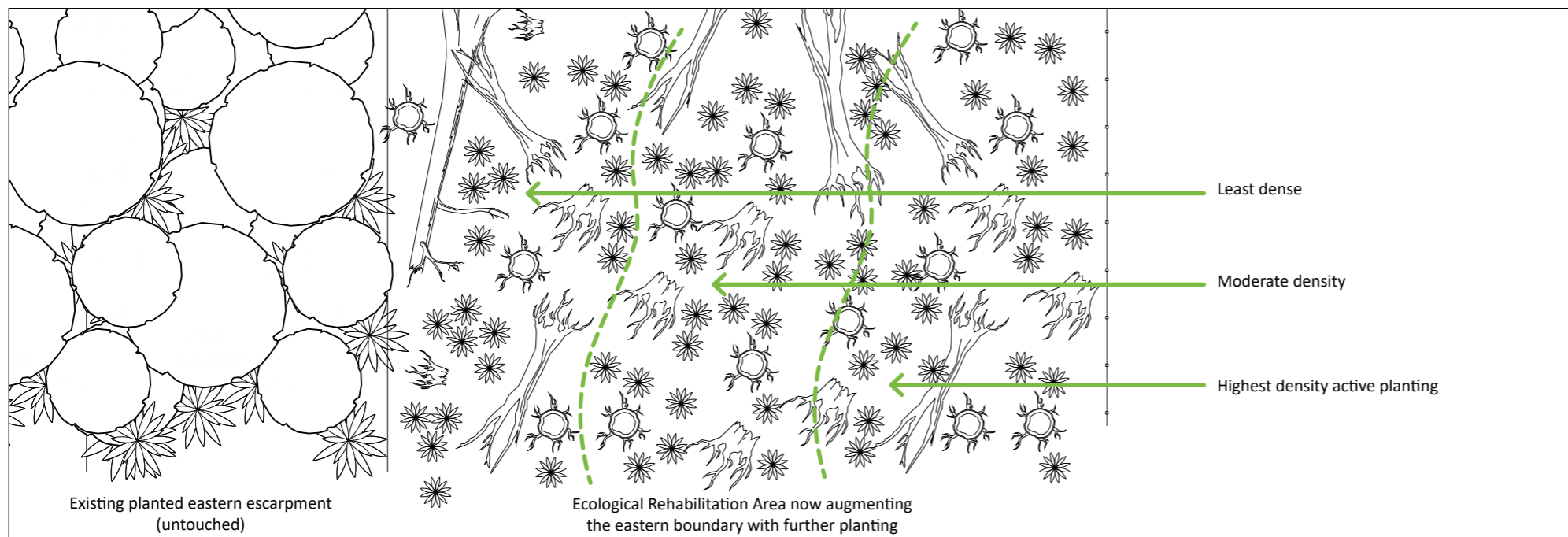


2 Phase 2: Salvage and Direct Transfer
Scale: 1:250

8.0 EASTERN BOUNDARY ECOLOGICAL REHABILITATION AREA: PHASE 3



3 Phase 3: Support Planting
Scale: 1:250



3a Phase 3 Plan
Scale: 1:250

9.0 INDICATIVE LANDSCAPE PLANT SPECIES AND GROWTH RATES

SCIENTIFIC NAME	COMMON NAME	NORTHERN BOUNDARY LOW PLANTING <0.5M	NORTHERN BOUNDARY LOW TO MEDIUM PLANTING <1.5M	NORTHERN BOUNDARY MEDIUM TO LARGE PLANTING >1.5M	WESTERN BUND PLANTING	WESTERN INFILL PLANTING	VDT ENRICHMENT PLANTING	WETLAND PLANTING
<i>Acaena inermis</i> 'Purpurea'	purple bidibidi	X						
<i>Anemanthele lessoniana</i>	wind grass		X					
<i>Apodasmia similis</i>	oioi		X					
<i>Aristotelia serrata</i>	makomako, wineberry						X	
<i>Carex geminata</i>	rautahi							X
<i>Carex secta</i>	purei							X
<i>Carex virgata</i>	pukio							X
<i>Chinochloa flavicans</i>	dwarf toe toe		X					
<i>Coprosma robusta</i>	karamu			X	X	X	X	
<i>Coprosma propinqua</i>	mikimiki				X	X		
<i>Cordyline australis</i>	tī kouka, cabbage tree			X	X	X		X
<i>Dacrycarpus dacrydioides</i>	kahikatea, white pine						X	X
<i>Dacrydium cupressinum</i>	rimu						X	X
<i>Elaeocarpus dentatus</i>	hinau						X	
<i>Griselinia littoralis</i>	broadleaf			X	X	X	X	
<i>Hebe salicifolia</i>	koromiko			X	X	X		
<i>Juncus edgariae</i>	edgar's rush							X
<i>Leptinella squalida</i>	brass buttons	X						
<i>Leptospermum scoparium</i>	mānuka			X	X	X	X	
<i>Melicytus ramiflorus</i>	māhoe, whiteywood				X	X	X	
<i>Muehlenbeckia australis</i>	muehlenbeckia			X	X	X	X	
<i>Muehlenbeckia axillaris</i>	creeping wire vine	X						
<i>Myrsine divaricata</i>	weeping matipo				X	X		
<i>Phormium cookianum</i> 'Emerald green'	dwarf mountain flax		X					
<i>Phormium tenax</i>	harakeke, korari			X	X	X	X	X
<i>Pittosporum eugeniioides</i>	tarata, lemonwood				X	X		
<i>Podocarpus totara</i>	totara						X	
<i>Pratia angulata</i>	panakenake	X						
<i>Pseudopanax crassifolius</i>	lancewood			X	X	X	X	
<i>Pittosporum tenuifolium</i>	kohuhu			X	X	X		
<i>Quintinia serrata</i>	quintinia						X	X
<i>Sophora prostrata</i>	dwarf kōwhai			X				
<i>Weinmannia racemosa</i>	kamahi						X	

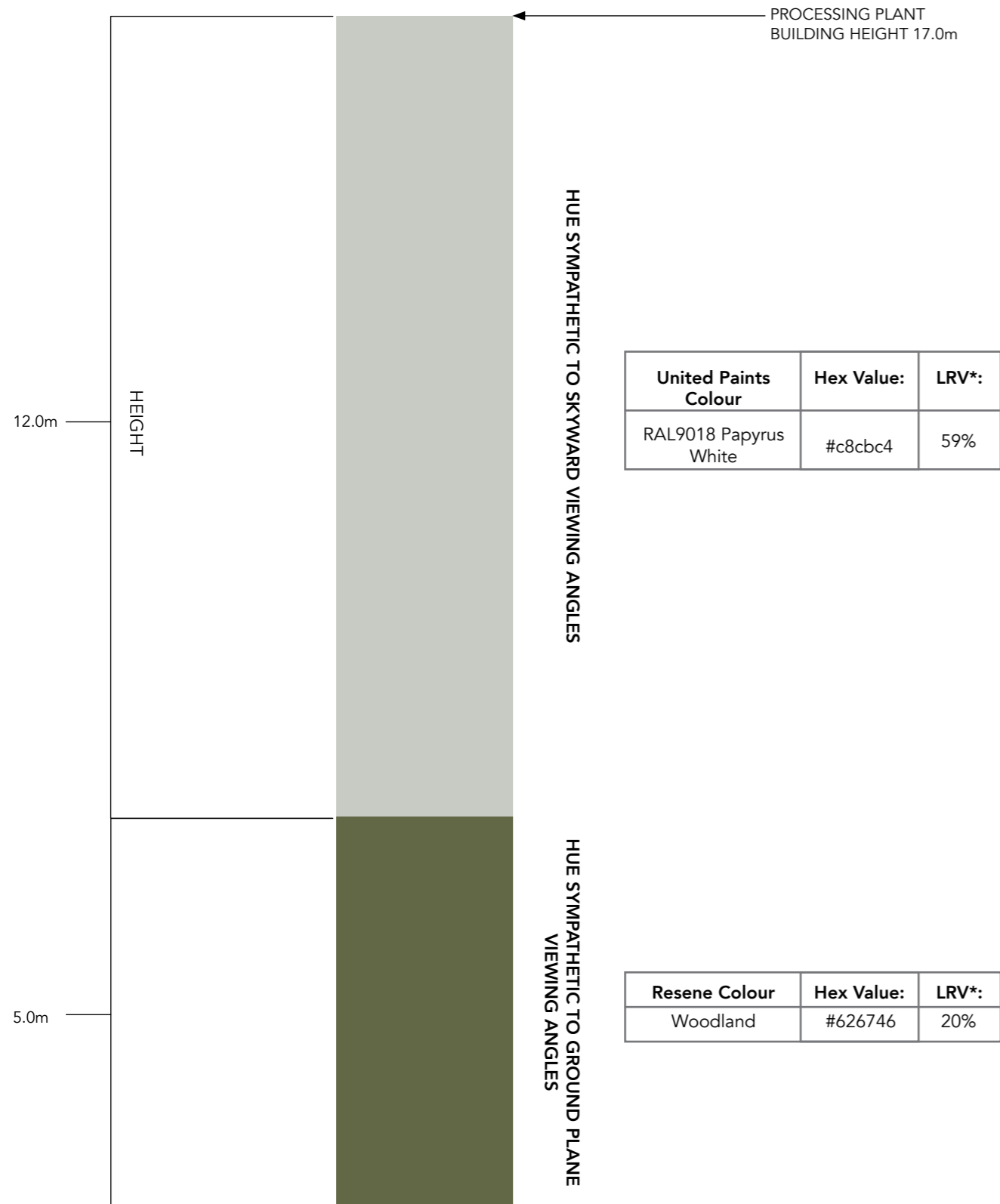
PLANT GROWTH

Year	Mine Year	Native Plant Height
1	-	Seed Collection
2	-	Propagation
3	1	0.45M
4	2	0.90M
5	3	1.35M
6	4	1.8M
7	5	2.25M
8	6	3.60M
9	7	3.15M

Notes:

- Plant species and palettes provided will be subject to further refinement through detailed planting plans, accompanying plant schedules, and consultation with the Project Landscape Architect and the Project Ecologist.
- Seedlings will establish from Vegetation Direct Transfer (VDT) Enrichment planting will only occur if seedlings in Rehabilitation Area are not sufficient.
- Plant size shown in the previous cross sections are approx. 6-8 years growth.
- An approximate growth rate of 0.45m per year has been determined in consultation with the Project Landscape Architect and Project Ecologist. The combined experience of these two individuals notes that these plants will sit at a lower growth rate for the first two years following planting, and will have an increase in growth rates in following years. It is also noted that larger individual specimens have a longer 'sitting' period than smaller ones.
- Growth rates can be influenced by seasonal fluctuations, maintenance, moisture/precipitation, exposure, ground conditions, and type of plant species.

10.0 RECOMMENDED COLOUR PALETTE FOR STRUCTURES



View from SH6 looking east towards the application area.

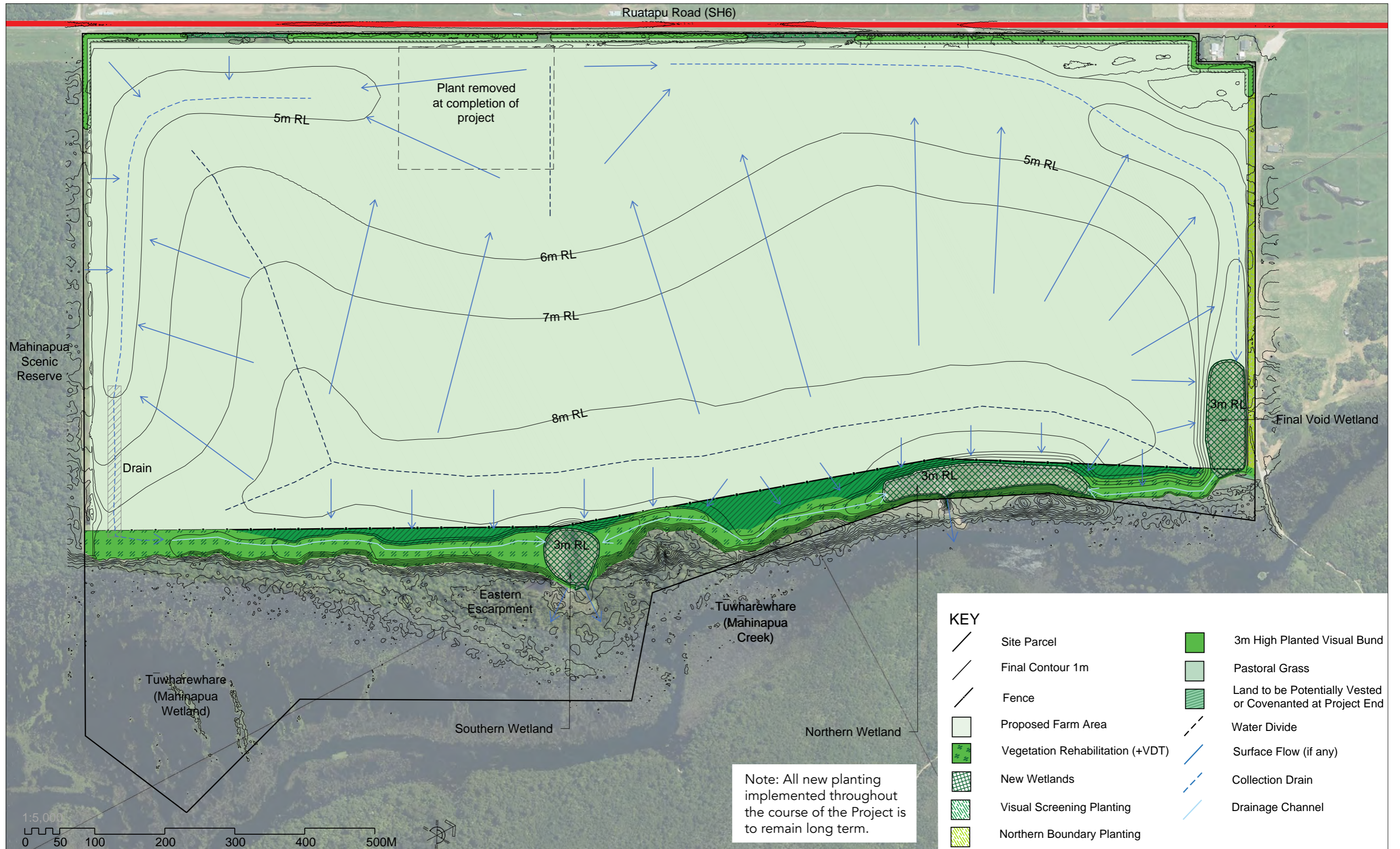


View from High Water Track looking towards the application area.

Notes:

- This colour palette is recommended to assist with mitigating the visual effects of new buildings and structures by helping them recede into the background.
- Parts of buildings or structures less than 5m in height should be coloured Resene Woodland, with any areas taller than 5m being coloured United Paints Papyrus White. Lower structures are likely to be viewed against vegetation, whilst taller structures will be viewed against the skyline.

11.0 FINAL LANDFORM AND REHABILITATION PLAN



KEY

	Site Parcel		3m High Planted Visual Bund
	Final Contour 1m		Pastoral Grass
	Fence		Land to be Potentially Vested or Covenanted at Project End
	Proposed Farm Area		Water Divide
	Vegetation Rehabilitation (+VDT)		Surface Flow (if any)
	New Wetlands		Collection Drain
	Visual Screening Planting		Drainage Channel
	Northern Boundary Planting		

Note: All new planting implemented throughout the course of the Project is to remain long term.

