

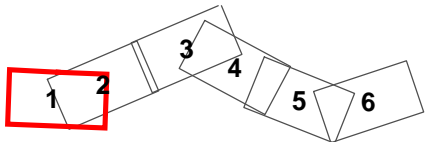
Pūhoi to Warkworth Alignment

Tunnel

Indicative realignment of forestry track

**NOTE**  
 1. All information shown is subject to final design and the details may change. Areas and measurements are subject to survey.  
 2. Assessment based on indicative alignment

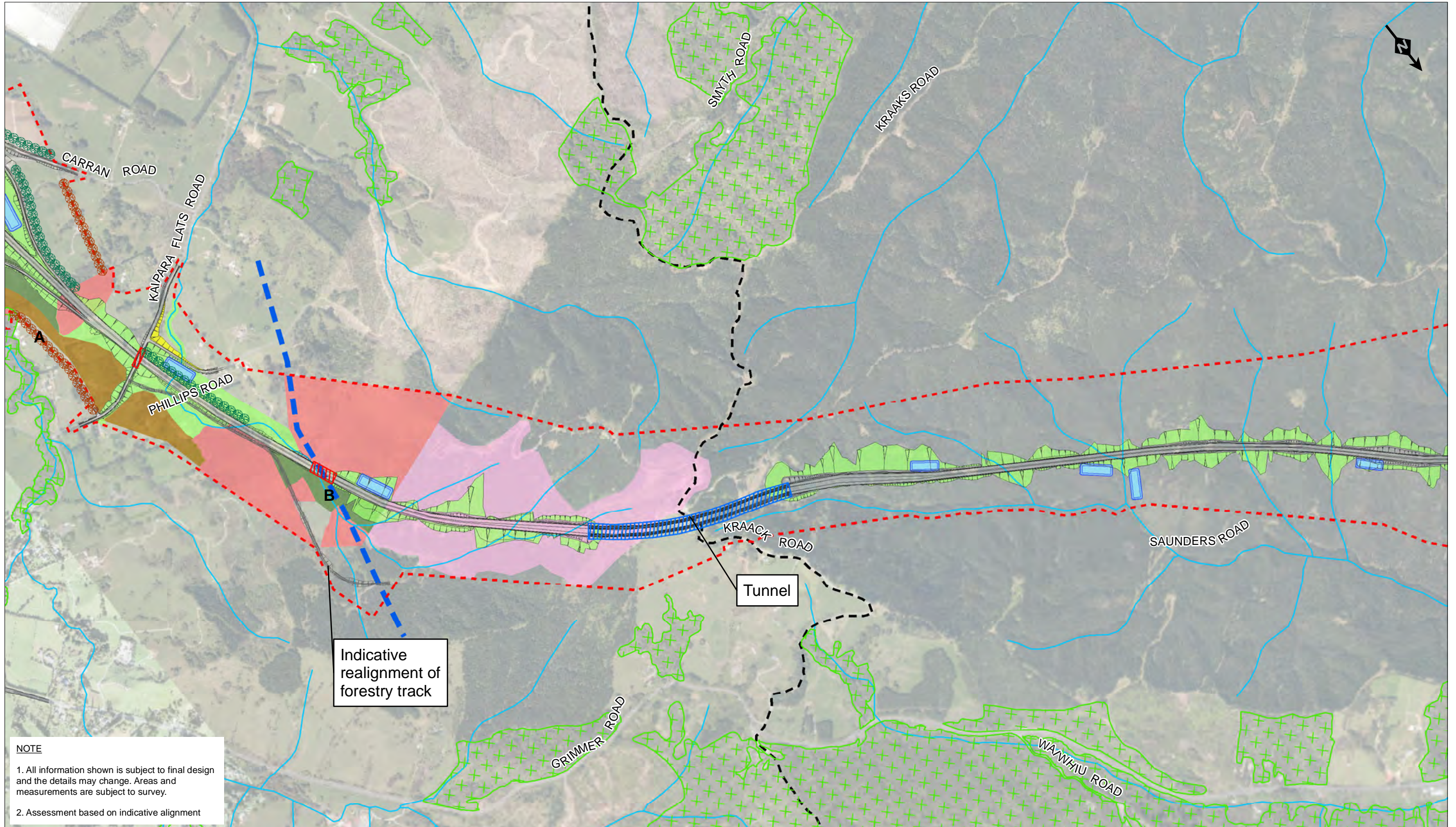
LEGEND		Significant Ecological Areas		P2W Screen Planting		Stormwater treatment wetlands - indicative locations		Indigenous vegetation to be retained beyond project footprint		Bridge	
	Terrestrial [rp/dp]		Marine 1 [rcp]		P2W Screen Planting		Stormwater treatment wetlands - indicative locations		Indigenous vegetation to be retained beyond project footprint		Bridge
	Marine 2 [rcp]		Screen Planting		Grass batter slopes		Ecology Vegetation Mitigation		Preferred fauna habitat and flyway		TeAraroa Walkway
	Marine 2 [rcp]		Existing Shelter belt		Preferred fauna habitat and flyway		Landscape Mitigation Planting		Preferred mitigation for fragmentation		Watercourse (existing)
			Proposed designation boundary				Landscape and Ecology Section Break				



										Project: <b>WARKWORTH TO WELLSFORD PROJECT</b>	
										Title: <b>LANDSCAPE AND ECOLOGICAL MITIGATION MAP</b>	
0 ISSUED FOR RMA APPROVALS		NR	JB*	BN*	07/19	FOR RMA APPROVALS		Date: JULY 2019		Contract: <b>PA4156</b>	
No	Revision	Drawn	Checked	Approved	Date	Scale	NTS	Original Size	A3	Drawing No:	EM - 010
						Sheet: <b>1 OF 6</b>		Rev: <b>0</b>			



**DO NOT SCALE**  
 Conditions of Use:  
 This document may only be used by The JV's client (and any other person who The JV has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.

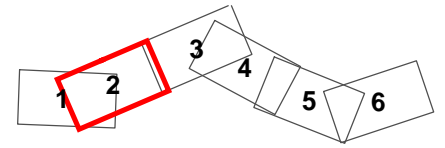


**NOTE**

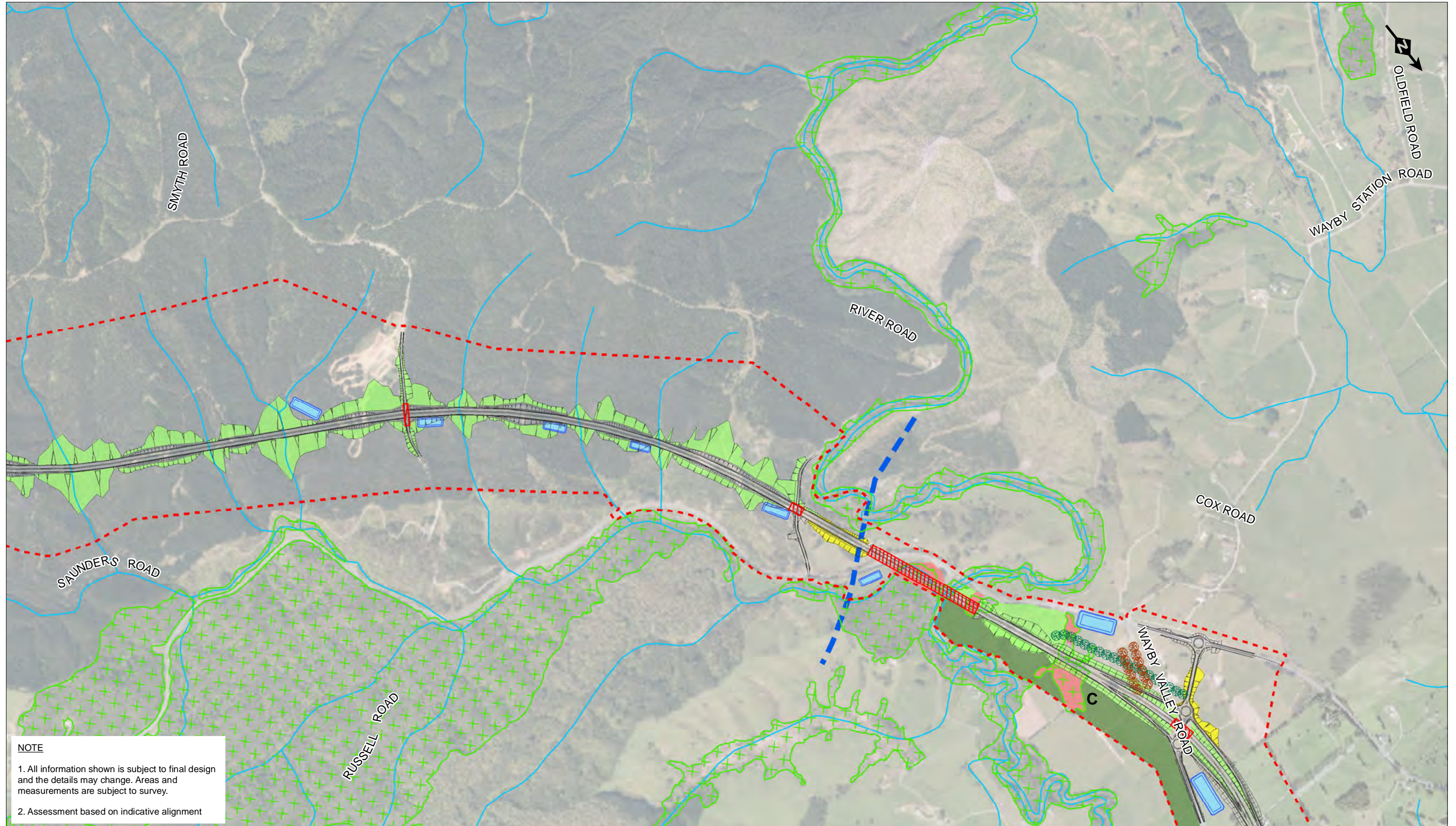
1. All information shown is subject to final design and the details may change. Areas and measurements are subject to survey.

2. Assessment based on indicative alignment

LEGEND		Significant Ecological Areas		P2W Screen Planting		Stormwater treatment wetlands - indicative locations		Indigenous vegetation to be retained beyond project footprint		Bridge	
	Terrestrial [rp/dp]		Screen Planting		Grass batter slopes		Ecology Vegetation Mitigation		TeAraroa Walkway		Watercourse (existing)
	Marine 1 [rcp]		Existing Shelter belt		Preferred fauna habitat and flyway		Landscape Mitigation Planting		Proposed designation boundary		Landscape and Ecology Section Break
	Marine 2 [rcp]		Preferred mitigation for fragmentation								



						<b>DO NOT SCALE</b> Conditions of Use: This document may only be used by the JV's client (and any other person who The JV has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.		<b>FOR RMA APPROVALS</b> Drawn NR    Drafting Check JB*    Designed IB*    Design Check JB* Approved BN*    Date JULY 2019 Scale NTS    This Drawing must not be used for Construction unless signed as Approved    Original Size A3		Project <b>WARKWORTH TO WELLSFORD PROJECT</b> Title <b>LANDSCAPE AND ECOLOGICAL MITIGATION MAP</b> Contract: <b>PA4156</b> Drawing No: <b>EM - 011</b> Sheet: <b>2 OF 6</b> Rev: <b>0</b>	
--	--	--	--	--	--	--	--	---	--	---	--

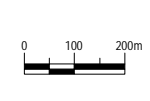


**NOTE**

1. All information shown is subject to final design and the details may change. Areas and measurements are subject to survey.

2. Assessment based on indicative alignment

**LEGEND**



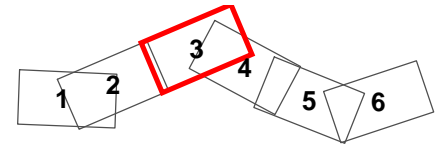
- Significant Ecological Areas**
- X Terrestrial [rp/dp]
  - X Marine 1 [rcp]
  - X Marine 2 [rcp]

- P2W Screen Planting
- Screen Planting
- Existing Shelter belt

- Stormwater treatment wetlands - indicative locations
- Grass batter slopes
- Preferred fauna habitat and flyway
- Preferred mitigation for fragmentation

- Indigenous vegetation to be retained beyond project footprint
- Ecology Vegetation Mitigation
- Landscape Mitigation Planting
- Proposed designation boundary

- Bridge
- Te Araroa Walkway
- Watercourse (existing)
- Landscape and Ecology Section Break



0	ISSUED FOR RMA APPROVALS	NR	JB*	BN*	07/19
No	Revision	Drawn	Checked	Approved	Date

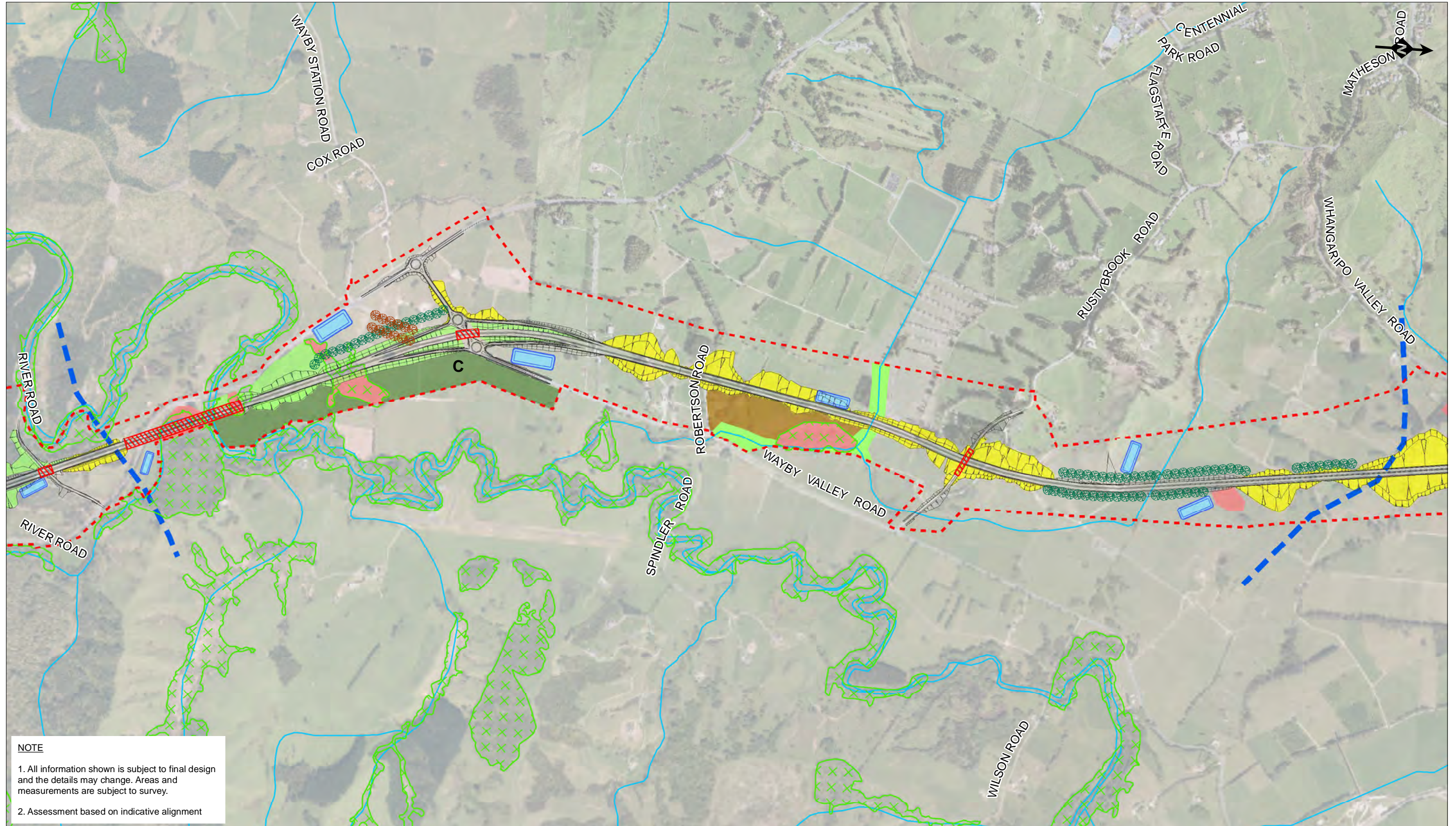


**DO NOT SCALE**

Conditions of Use:  
This document may only be used by The JV's client (and any other person who The JV has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.

FOR RMA APPROVALS					
Drawn	NR	Drafting Check	JB*	Designed	IB*
Approved	BN*			Date	JULY 2019
Scale	NTS		Original Size		A3

Project	WARKWORTH TO WELLSFORD PROJECT				
Title	LANDSCAPE AND ECOLOGICAL MITIGATION MAP				
Contract	PA4156	Drawing No:	EM - 012	Sheet	3 OF 6
Rev:	0				



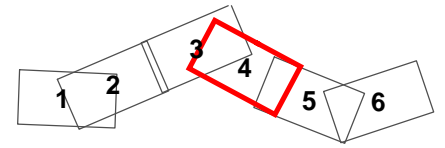
**NOTE**

1. All information shown is subject to final design and the details may change. Areas and measurements are subject to survey.

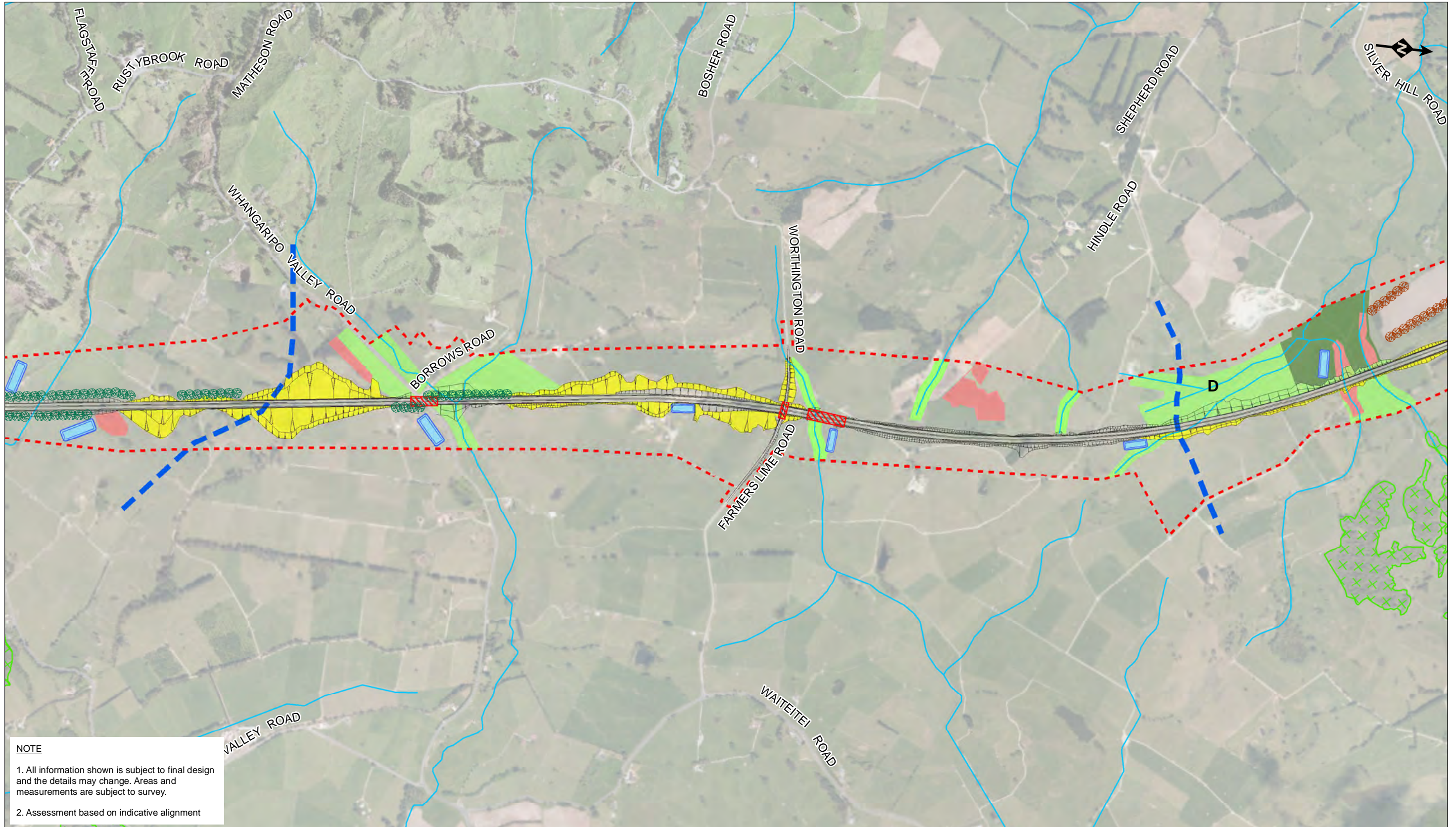
2. Assessment based on indicative alignment

**LEGEND**

Terrestrial [rp/dp]	P2W Screen Planting	Stormwater treatment wetlands - indicative locations	Indigenous vegetation to be retained beyond project footprint	Bridge
Marine 1 [rcp]	Screen Planting	Grass batter slopes	Ecology Vegetation Mitigation	TeAraroa Walkway
Marine 2 [rcp]	Existing Shelter belt	Preferred fauna habitat and flyway	Landscape Mitigation Planting	Watercourse (existing)
	Preferred mitigation for fragmentation	Proposed designation boundary	Landscape and Ecology Section Break	



						<b>DO NOT SCALE</b> <small>Conditions of Use. This document may only be used by The JV's client (and any other person who The JV has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.</small>		<b>FOR RMA APPROVALS</b>		Project: <b>WARKWORTH TO WELLSFORD PROJECT</b>									
0 ISSUED FOR RMA APPROVALS		NR	JB*	BN*	07/19	Approved BN*		Date: JULY 2019		Title: <b>LANDSCAPE AND ECOLOGICAL MITIGATION MAP</b>									
No	Revision	Drawn	Checked	Approved	Date	Scale	NTS	This Drawing must not be used for Construction unless signed as Approved		Original Size	A3	Contract:	PA4156	Drawing No:	EM - 013	Sheet:	4 OF 6	Rev:	0

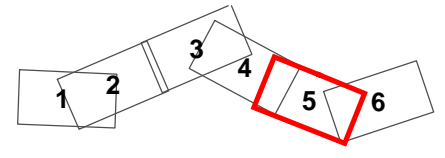


**NOTE**

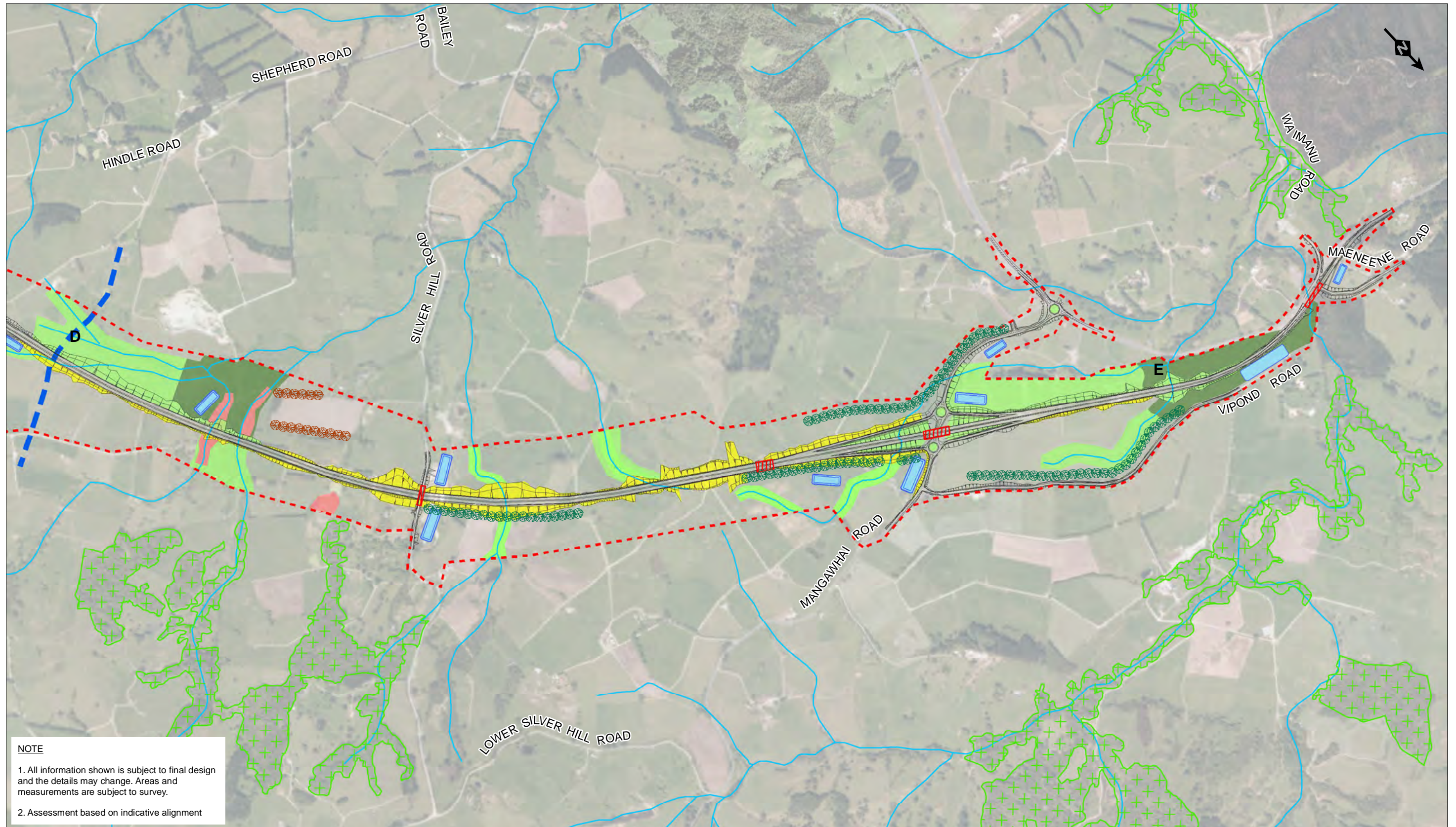
1. All information shown is subject to final design and the details may change. Areas and measurements are subject to survey.

2. Assessment based on indicative alignment

<b>LEGEND</b>		<b>Significant Ecological Areas</b>	P2W Screen Planting	Stormwater treatment wetlands - indicative locations	Indigenous vegetation to be retained beyond project footprint	Bridge
Terrestrial [rp/dp]	Screen Planting	Grass batter slopes	Ecology Vegetation Mitigation	TeAraroa Walkway	Watercourse (existing)	
Marine 1 [rcp]	Existing Shelter belt	Preferred fauna habitat and flyway	Landscape Mitigation Planting	Watercourse (proposed)	Landscape and Ecology Section Break	
Marine 2 [rcp]	Preferred mitigation for fragmentation	Proposed designation boundary				



								<b>DO NOT SCALE</b> <small>Conditions of Use. This document may only be used by The JV's client (and any other person who The JV has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.</small>		<b>FOR RMA APPROVALS</b>		Project: <b>WARKWORTH TO WELLSFORD PROJECT</b>	
0 ISSUED FOR RMA APPROVALS								NR JB* BN* 07/19		Approved BN*		Date: JULY 2019	
No Revision		Drawn Checked Approved Date		Scale: NTS		Original Size: <b>A3</b>		This Drawing must not be used for Construction unless signed as Approved		Sheet <b>5 OF 6</b>		Rev: <b>0</b>	

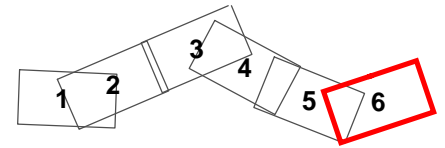


**NOTE**

1. All information shown is subject to final design and the details may change. Areas and measurements are subject to survey.

2. Assessment based on indicative alignment

LEGEND		Significant Ecological Areas		P2W Screen Planting		Stormwater treatment wetlands - indicative locations		Indigenous vegetation to be retained beyond project footprint		Bridge	
	Terrestrial [rp/dp]		Screen Planting		Stormwater treatment wetlands - indicative locations		Proposed designation boundary		Bridge		TeAraroa Walkway
	Marine 1 [rcp]		Existing Shelter belt		Grass batter slopes		Ecology Vegetation Mitigation		Stormwater treatment wetlands - indicative locations		Landscape and Ecology Section Break
	Marine 2 [rcp]		Preferred fauna habitat and flyway		Preferred fauna habitat and flyway		Landscape Mitigation Planting		Preferred mitigation for fragmentation		Watercourse (existing)



								<b>DO NOT SCALE</b> Conditions of Use: This document may only be used by The JV's client (and any other person who The JV has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.		<b>FOR RMA APPROVALS</b>				Project <b>WARKWORTH TO WELLSFORD PROJECT</b>				
0 ISSUED FOR RMA APPROVALS										NR	JB*	BN*	07/19	Drawn	Checked	Approved	Date	Drawn NR
No Revision		Drawn	Checked	Approved	Date					Approved BN*	Date JULY 2019		Scale NTS	Original Size A3	Contract: PA4156	Drawing No: EM - 015	Sheet 6 OF 6	Rev: 0