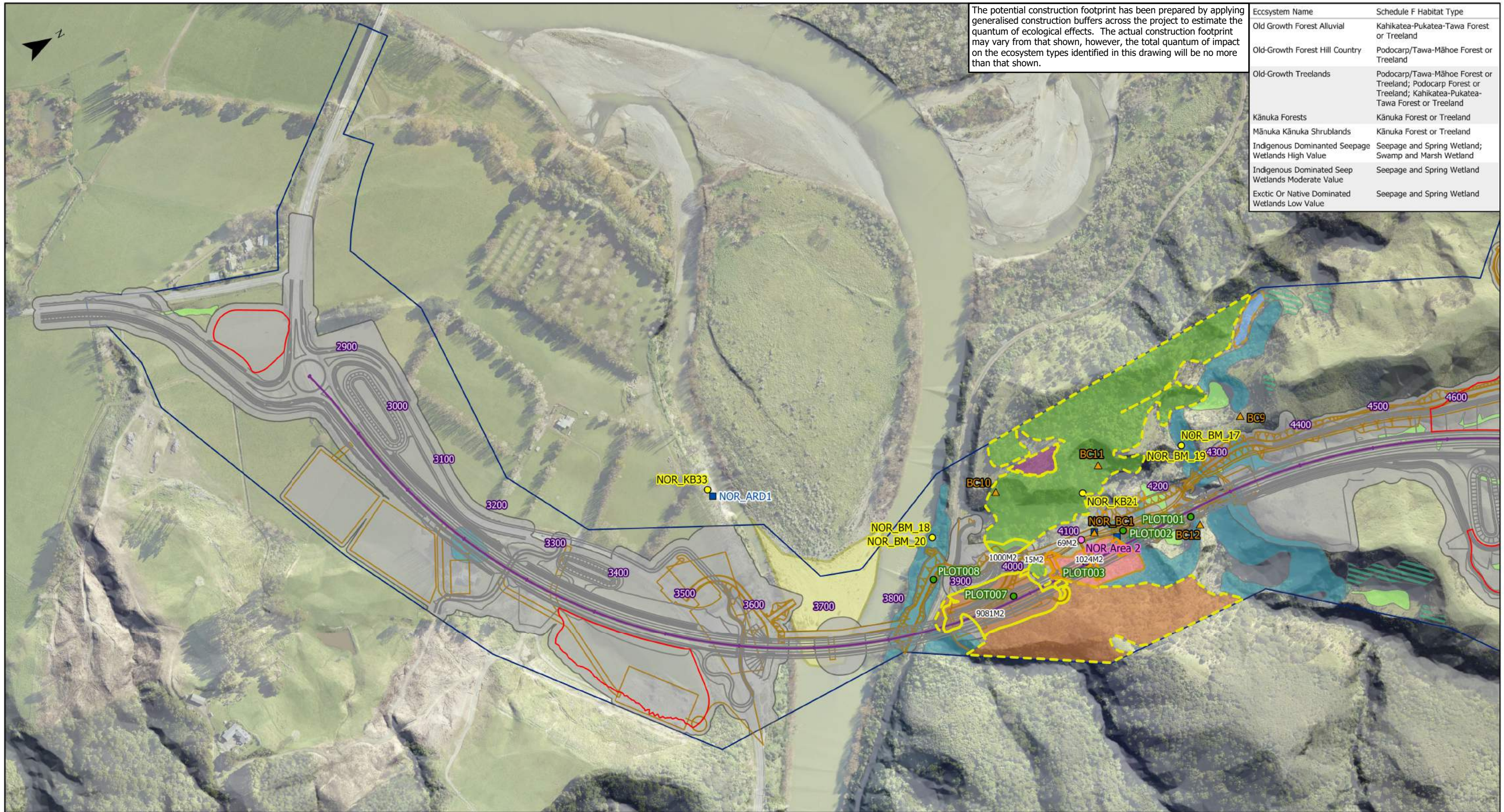


REV	DATE	REVISION DETAILS	APPROVED
A	24.02.20	ISSUED FOR REGIONAL CONSENT	D. McGAHAN

SCALE	SIZE
1:30,000	A3
DRAWN C. SMITH	
DESIGNED H. ATKINS	
REVIEWED D. McGAHAN	

CONSENT	
NOT FOR CONSTRUCTION	DATE
T. WATTERSON	24/02/2020
T. WATTERSON	

PROJECT	TE AHU A TURANGA: MANAWATU TARARUA HIGHWAY
TITLE	WATERWAYS AND CATCHMENTS OVERVIEW PLAN
DRAWING No.	PROJECT No. TAT - PHASE 3 - TYPE DG - DISC E - NUMBER 4100 - REV A

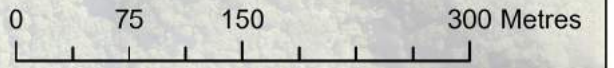


The potential construction footprint has been prepared by applying generalised construction buffers across the project to estimate the quantum of ecological effects. The actual construction footprint may vary from that shown, however, the total quantum of impact on the ecosystem types identified in this drawing will be no more than that shown.

Ecosystem Name	Schedule F Habitat Type
Old Growth Forest Alluvial	Kahikatea-Pukatea-Tawa Forest or Treeland
Old-Growth Forest Hill Country	Podocarp/Tawa-Māhoe Forest or Treeland
Old-Growth Treelands	Podocarp/Tawa-Māhoe Forest or Treeland; Podocarp Forest or Treeland; Kahikatea-Pukatea-Tawa Forest or Treeland
Kānuka Forests	Kānuka Forest or Treeland
Mānuka Kānuka Shrublands	Kānuka Forest or Treeland
Indigenous Dominated Seepage Wetlands High Value	Seepage and Spring Wetland; Swamp and Marsh Wetland
Indigenous Dominated Seep Wetlands Moderate Value	Seepage and Spring Wetland
Exotic Or Native Dominated Wetlands Low Value	Seepage and Spring Wetland

Legend

<ul style="list-style-type: none"> ▲ Bird Count Locations ■ Acoustic Wetland Bird Monitoring Locations ● Vegetation Plot ● Lizard Search Areas ● Bat ABM Locations ■ Dotterel Habitat 	<ul style="list-style-type: none"> — Temporary works including access tracks, water reservoirs, site offices and stock pile areas — Spoil Sites — Alignment — Chainage — Proposed Designation Boundary — Potential Construction Footprint 	<ul style="list-style-type: none"> ▨ Advanced Secondary Broadleaved Forest ▨ Divaricating Shrublands ▨ Secondary Broadleaved Forests and Scrublands ▨ Secondary Broadleaved Forests with Old-Growth Signatures ▨ Old-Growth Treelands - Ramarama 	<ul style="list-style-type: none"> ■ Old-Growth Forest Alluvial ■ Old-Growth Forest Hill Country ■ Old-Growth Treelands ■ Kānuka Forests ■ Mānuka Kānuka Shrublands 	<ul style="list-style-type: none"> ■ Indigenous Dominated Seepage Wetlands High Value ■ Exotic Or Native Dominated Wetlands Low Value ■ Indigenous Dominate Seepage Wetlands Moderate Value 	<p>Horizons One Plan Schedule F Habitat Classifications</p> <ul style="list-style-type: none"> ■ Threatened (6) ■ Rare (12) ■ At Risk (0) ■ Full Threatened Area ■ Full Rare Area ■ Full At Risk Area 	<p>Detailed habitat surveys areas have generally been limited to within the potential construction footprint</p>
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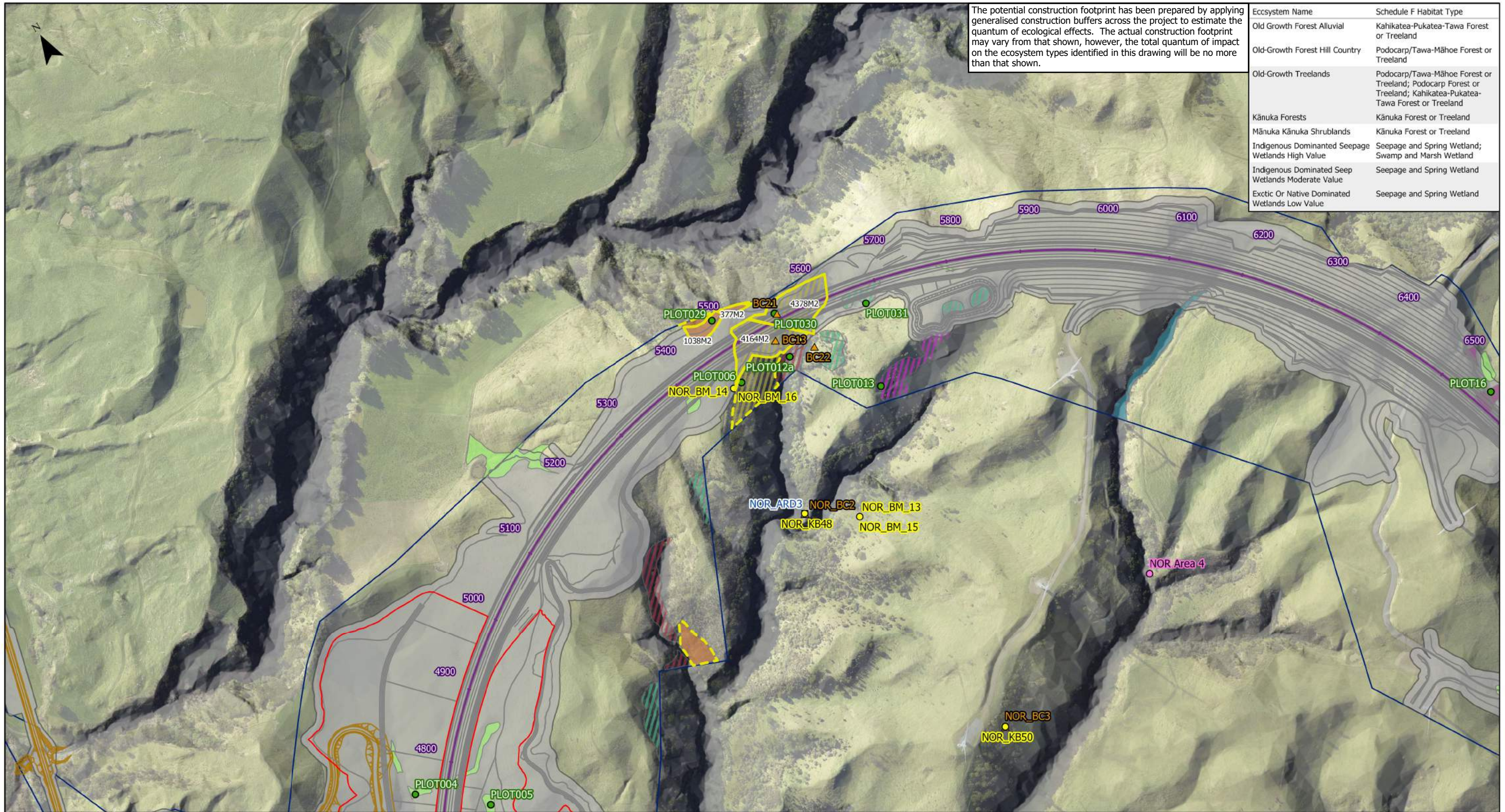
Te Ahu a Turanga
Manawatū Tararua Highway

REV	DATE	REVISION DETAILS	APPROVED
A	24.02.20	ISSUED FOR REGIONAL CONSENT	D. MCGAHAN

SCALE	SIZE
1:5,000	A3
DRAWN	C. SMITH
DESIGNED	D. LAW
REVIEWED	J. MARKHAM

CONSENT	
NOT FOR CONSTRUCTION	
T. WATTERSON	DATE 24/02/2020

PROJECT	TE AHU A TURANGA: MANAWATŪ TARARUA HIGHWAY
TITLE	TERRESTRIAL ECOSYSTEM PLAN SHEET 1
DRAWING No.	TAT - 3 - DG - E - 4131 - A



The potential construction footprint has been prepared by applying generalised construction buffers across the project to estimate the quantum of ecological effects. The actual construction footprint may vary from that shown, however, the total quantum of impact on the ecosystem types identified in this drawing will be no more than that shown.

Ecosystem Name	Schedule F Habitat Type
Old Growth Forest Alluvial	Kahikatea-Pukatea-Tawa Forest or Treeland
Old-Growth Forest Hill Country	Podocarp/Tawa-Māhoe Forest or Treeland
Old-Growth Treelands	Podocarp/Tawa-Māhoe Forest or Treeland; Podocarp Forest or Treeland; Kahikatea-Pukatea-Tawa Forest or Treeland
Kānuka Forests	Kānuka Forest or Treeland
Mānuka Kānuka Shrublands	Kānuka Forest or Treeland
Indigenous Dominated Seepage Wetlands High Value	Seepage and Spring Wetland; Swamp and Marsh Wetland
Indigenous Dominated Seep Wetlands Moderate Value	Seepage and Spring Wetland
Exotic Or Native Dominated Wetlands Low Value	Seepage and Spring Wetland

Legend

- ▲ Bird Count Locations
- Acoustic Wetland Bird Monitoring Locations
- Vegetation Plot
- Lizard Search Areas
- Bat ABM Locations
- Dotterel Habitat

- Temporary works including access tracks, water reservoirs, site offices and stock pile areas
- Spoil Sites
- Alignment
- Chainage
- Proposed Designation Boundary
- Potential Construction Footprint

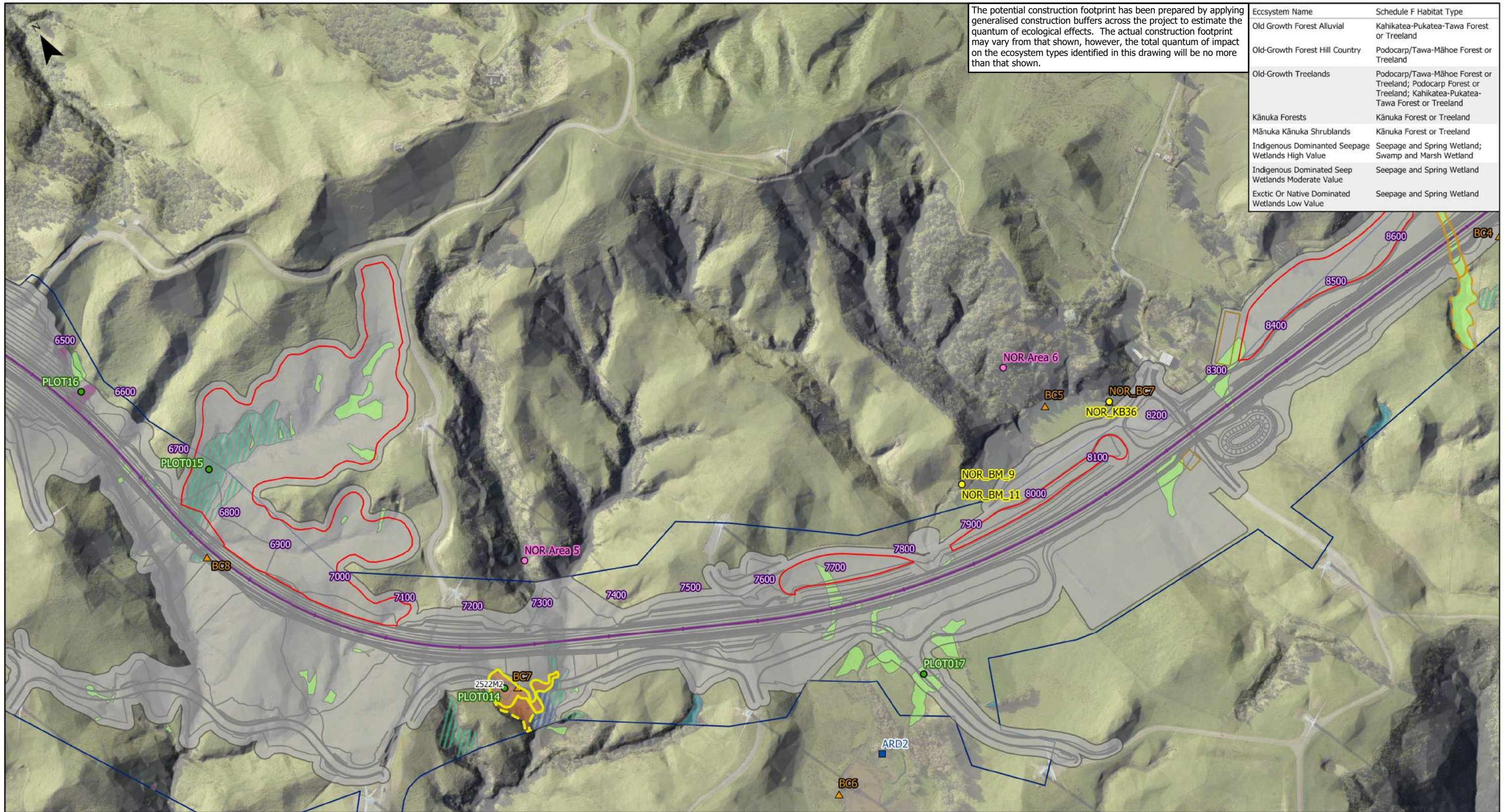
- Advanced Secondary Broadleaved Forest
- Divericating Shrublands
- Secondary Broadleaved Forests and Scrublands
- Secondary Broadleaved Forests with Old-Growth Signatures
- Old-Growth Treelands - Ramarama
- Old-Growth Forest Alluvial
- Old-Growth Forest Hill Country
- Old-Growth Treelands
- Kānuka Forests
- Mānuka Kānuka Shrublands
- Indigenous Dominated Seepage Wetlands High Value
- Exotic Or Native Dominated Wetlands Low Value
- Indigenous Dominated Seepage Wetlands Moderate Value

Horizons One Plan Schedule F Habitat Classifications

- Threatened (6)
- Rare (12)
- At Risk (0)
- Full Threatened Area
- Full Rare Area
- Full At Risk Area

Detailed habitat surveys areas have generally been limited to within the potential construction footprint

0 75 150 300 Metres



The potential construction footprint has been prepared by applying generalised construction buffers across the project to estimate the quantum of ecological effects. The actual construction footprint may vary from that shown, however, the total quantum of impact on the ecosystem types identified in this drawing will be no more than that shown.

Ecosystem Name	Schedule F Habitat Type
Old Growth Forest Alluvial	Kahikatea-Pukatea-Tawa Forest or Treeland
Old-Growth Forest Hill Country	Podocarp/Tawa-Māhoe Forest or Treeland
Old-Growth Treelands	Podocarp/Tawa-Māhoe Forest or Treeland; Podocarp Forest or Treeland; Kahikatea-Pukatea-Tawa Forest or Treeland
Kānuka Forests	Kānuka Forest or Treeland
Mānuka Kānuka Shrublands	Kānuka Forest or Treeland
Indigenous Dominated Seepage Wetlands High Value	Seepage and Spring Wetland; Swamp and Marsh Wetland
Indigenous Dominated Seep Wetlands Moderate Value	Seepage and Spring Wetland
Exotic Or Native Dominated Wetlands Low Value	Seepage and Spring Wetland

Legend

- ▲ Bird Count Locations
- Acoustic Wetland Bird Monitoring Locations
- Vegetation Plot
- Lizard Search Areas
- Bat ABM Locations
- Dotterel Habitat
- Temporary works including access tracks, water reservoirs, site offices and stock pile areas
- Spoil Sites
- Alignment
- Chainage
- Proposed Designation Boundary
- Potential Construction Footprint

- ▨ Advanced Secondary Broadleaved Forests
- ▨ Divericating Shrublands
- ▨ Secondary Broadleaved Forests and Scrublands
- ▨ Secondary Broadleaved Forests with Old-Growth Signatures
- ▨ Old-Growth Treelands - Ramarama
- ▨ Old-Growth Forest Alluvial
- ▨ Old-Growth Forest Hill Country
- ▨ Old-Growth Treelands
- ▨ Kānuka Forests
- ▨ Mānuka Kānuka Shrublands

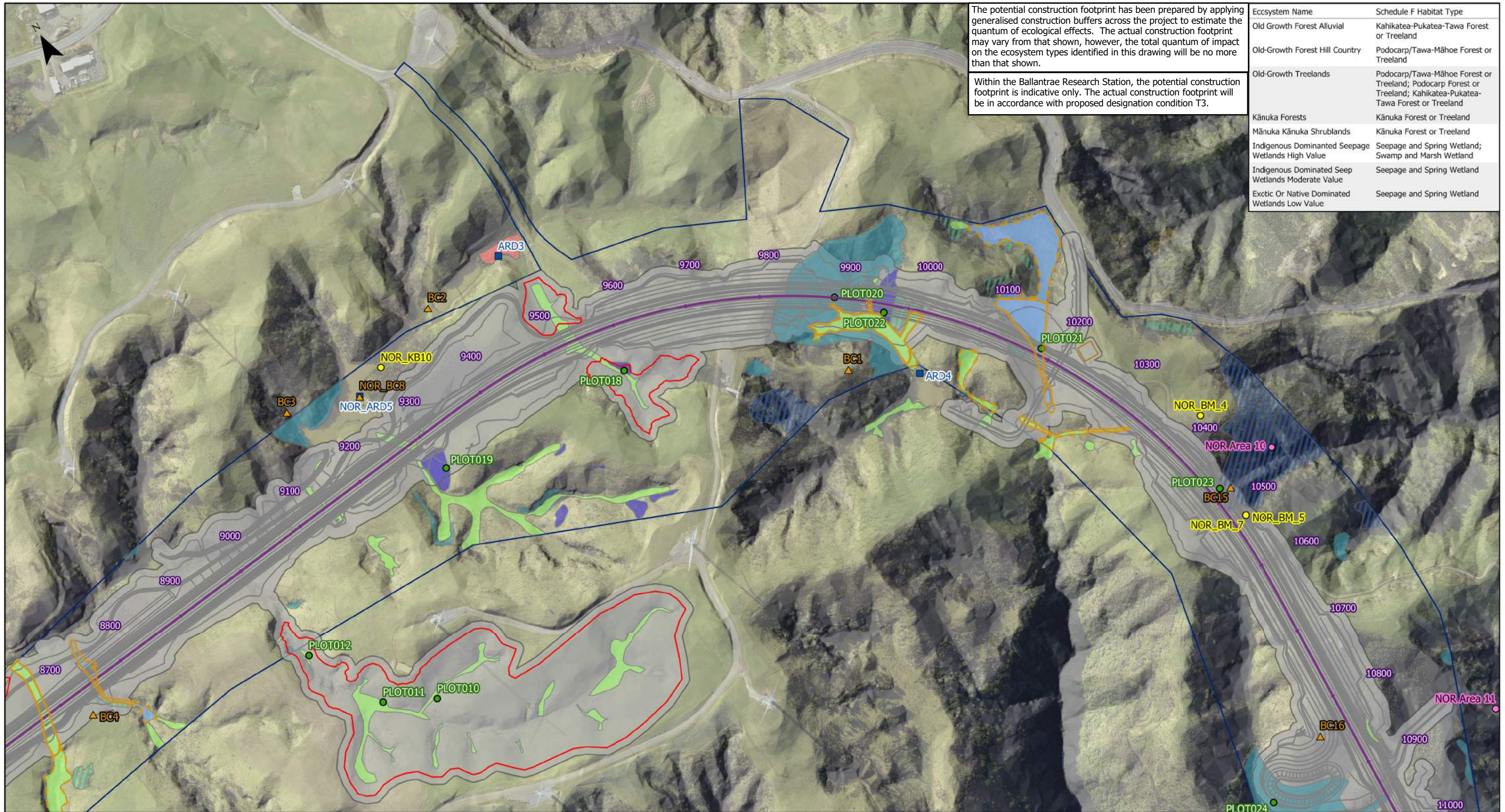
- ▨ Indigenous Dominated Seepage Wetlands High Value
- ▨ Exotic Or Native Dominated Wetlands Low Value
- ▨ Indigenous Dominated Seepage Wetlands Moderate Value

Horizons One Plan Schedule F Habitat Classifications

- ▨ Threatened (6)
- ▨ Rare (12)
- ▨ At Risk (0)
- ▨ Full Threatened Area
- ▨ Full Rare Area
- ▨ Full At Risk Area

Detailed habitat surveys areas have generally been limited to within the potential construction footprint

0 75 150 300 Metres



The potential construction footprint has been prepared by applying generalised construction buffers across the project to estimate the quantum of ecological effects. The actual construction footprint may vary from that shown, however, the total quantum of impact on the ecosystem types identified in this drawing will be no more than that shown.

Within the Ballantrae Research Station, the potential construction footprint is indicative only. The actual construction footprint will be in accordance with proposed designation condition T3.

Ecosystem Name	Schedule F Habitat Type
Old Growth Forest Alluvial	Kahikatea-Pukatea-Tawa Forest or Treeland
Old-Growth Forest Hill Country	Podocarp/Tawa-Māhoe Forest or Treeland
Old-Growth Treelands	Podocarp/Tawa-Māhoe Forest or Treeland; Podocarp Forest or Treeland; Kahikatea-Pukatea-Tawa Forest or Treeland
Kānuka Forests	Kānuka Forest or Treeland
Mānuka Kānuka Shrublands	Kānuka Forest or Treeland
Indigenous Dominated Seepage Wetlands High Value	Seepage and Spring Wetland; Swamp and Marsh Wetland
Indigenous Dominated Seep Wetlands Moderate Value	Seepage and Spring Wetland
Exotic Or Native Dominated Wetlands Low Value	Seepage and Spring Wetland

Legend

<ul style="list-style-type: none"> ▲ Bird Count Locations ■ Acoustic Wetland Bird Monitoring Locations ● Vegetation Plot ● Lizard Search Areas ● Bat ABM Locations ■ Dotterel Habitat 	<ul style="list-style-type: none"> — Temporary works including access tracks, water reservoirs, site offices and stock pile areas — Spoil Sites — Alignment — Chainage — Proposed Designation Boundary — Potential Construction Footprint 	<ul style="list-style-type: none"> Advanced Secondary Broadleaved Forest Divericating Shrublands Secondary Broadleaved Forests and Scrublands Secondary Broadleaved Forests with Old-Growth Signatures Old-Growth Treelands - Ramarama 	<ul style="list-style-type: none"> Old-Growth Forest Alluvial Old-Growth Forest Hill Country Old-Growth Treelands Kānuka Forests Mānuka Kānuka Shrublands Indigenous Dominated Seepage Wetlands High Value Exotic Or Native Dominated Wetlands Low Value Indigenous Dominated Seepage Wetlands Moderate Value 	<p>Horizons One Plan Schedule F Habitat Classifications</p> <ul style="list-style-type: none"> Threatened (6) Rare (12) At Risk (0) Full Threatened Area Full Rare Area Full At Risk Area
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Detailed habitat surveys areas have generally been limited to within the potential construction footprint

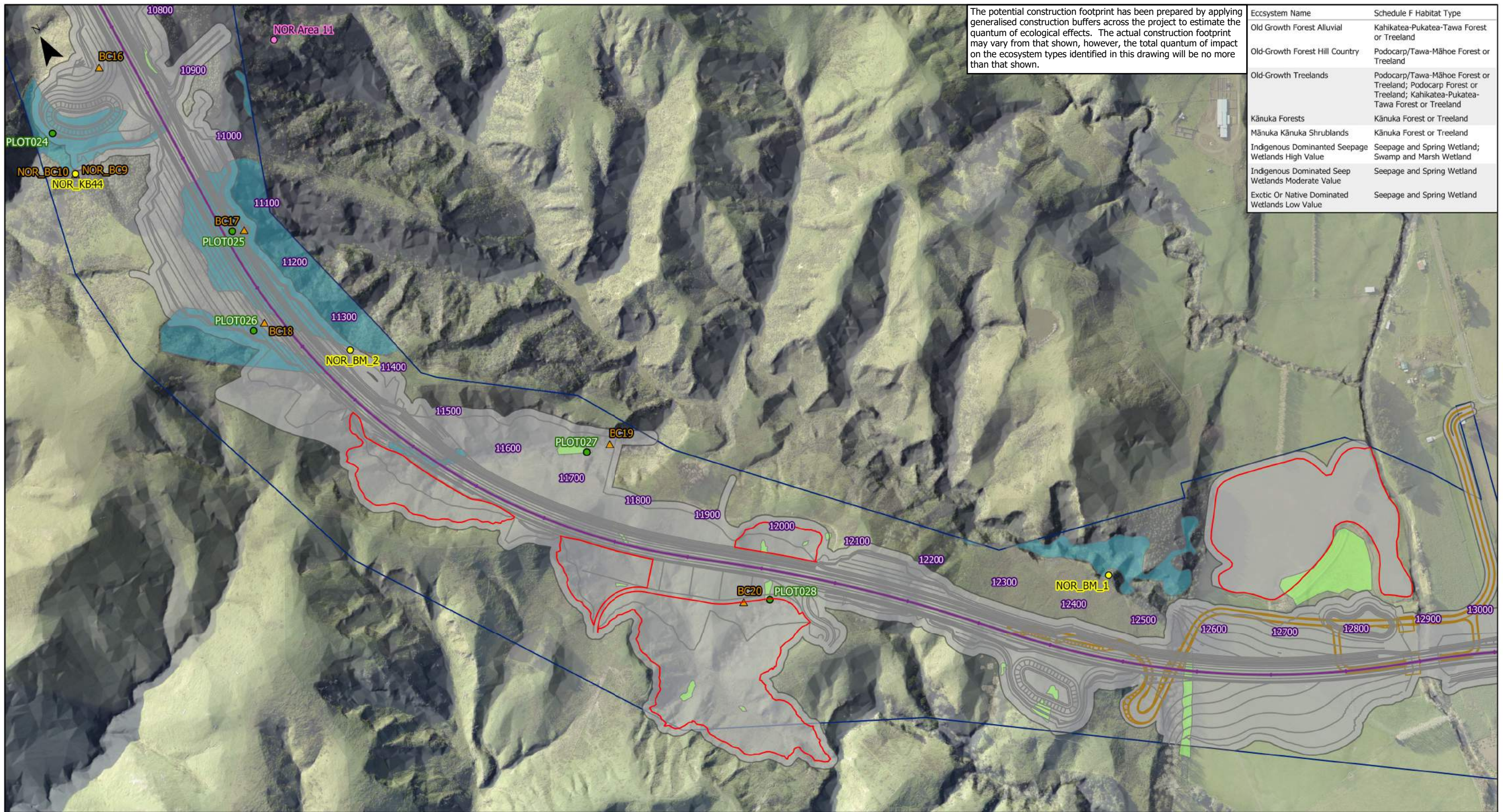
0 75 150 300 Metres

REV	DATE	REVISION DETAILS	APPROVED
A	24.02.20	ISSUED FOR REGIONAL CONSENT	D. MCGAHAN

SCALE	SIZE
1:5,000	A3
DRAWN C. SMITH	
DESIGNED D. LAW	
REVIEWED J. MARKHAM	

CONSENT	
NOT FOR CONSTRUCTION	
T. WATTERSON	DATE 24/02/2020
T. WATTERSON	

PROJECT	TE AHU A TURANGA: MANAWATŪ TARARUA HIGHWAY
TITLE	TERRESTRIAL ECOSYSTEM PLAN SHEET 4
DRAWING No.	PROJECT No. TAT - PHASE 3 - TYPE DG - DISC E - NUMBER 4134 - REV A



The potential construction footprint has been prepared by applying generalised construction buffers across the project to estimate the quantum of ecological effects. The actual construction footprint may vary from that shown, however, the total quantum of impact on the ecosystem types identified in this drawing will be no more than that shown.

Ecosystem Name	Schedule F Habitat Type
Old Growth Forest Alluvial	Kahikatea-Pukatea-Tawa Forest or Treeland
Old-Growth Forest Hill Country	Podocarp/Tawa-Māhoe Forest or Treeland
Old-Growth Treelands	Podocarp/Tawa-Māhoe Forest or Treeland; Podocarp Forest or Treeland; Kahikatea-Pukatea-Tawa Forest or Treeland
Kānuka Forests	Kānuka Forest or Treeland
Mānuka Kānuka Shrublands	Kānuka Forest or Treeland
Indigenous Dominated Seepage Wetlands High Value	Seepage and Spring Wetland; Swamp and Marsh Wetland
Indigenous Dominated Seep Wetlands Moderate Value	Seepage and Spring Wetland
Exotic Or Native Dominated Wetlands Low Value	Seepage and Spring Wetland

Legend

- ▲ Bird Count Locations
- Acoustic Wetland Bird Monitoring Locations
- Vegetation Plot
- Lizard Search Areas
- Bat ABM Locations
- Dotterel Habitat
- Temporary works including access tracks, water reservoirs, site offices and stock pile areas
- Spoil Sites
- Alignment
- Chainage
- Proposed Designation Boundary
- Potential Construction Footprint
- ▨ Advanced Secondary Broadleaved Forest
- ▨ Divericating Shrublands
- ▨ Secondary Broadleaved Forests and Scrublands
- ▨ Secondary Broadleaved Forests with Old-Growth Signatures
- ▨ Old-Growth Treelands - Ramarama
- ▨ Old-Growth Forest Alluvial
- ▨ Old-Growth Forest Hill Country
- ▨ Old-Growth Treelands
- ▨ Kānuka Forests
- ▨ Mānuka Kānuka Shrublands
- ▨ Indigenous Dominated Seepage Wetlands High Value
- ▨ Exotic Or Native Dominated Wetlands Low Value
- ▨ Indigenous Dominate Seepage Wetlands Moderate Value

- Horizons One Plan Schedule F Habitat Classifications**
- Threatened (6)
 - Rare (12)
 - At Risk (0)
 - Full Threatened Area
 - Full Rare Area
 - Full At Risk Area

Detailed habitat surveys areas have generally been limited to within the potential construction footprint

NOR_KB3

0 75 150 300 Metres



Te Ahu a Turanga
Manawatū Tararua Highway

REV	DATE	REVISION DETAILS	APPROVED
A	24.02.20	ISSUED FOR REGIONAL CONSENT	D. MCGAHAN

SCALE	SIZE
1:5,000	A3
DRAWN C. SMITH	
DESIGNED D. LAW	
REVIEWED J. MARKHAM	

CONSENT	
NOT FOR CONSTRUCTION	
DATE 24/02/2020	
T. WATTERSON	

PROJECT	TE AHU A TURANGA: MANAWATŪ TARARUA HIGHWAY
TITLE	TERRESTRIAL ECOSYSTEM PLAN SHEET 5
DRAWING No.	PROJECT No. TAT - PHASE 3 - TYPE DG - DISC E - NUMBER 4135 - REV A



The potential construction footprint has been prepared by applying generalised construction buffers across the project to estimate the quantum of ecological effects. The actual construction footprint may vary from that shown, however, the total quantum of impact on the ecosystem types identified in this drawing will be no more than that shown.

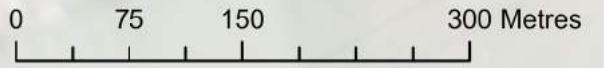
Ecosystem Name	Schedule F Habitat Type
Old Growth Forest Alluvial	Kahikatea-Pukatea-Tawa Forest or Treeland
Old-Growth Forest Hill Country	Podocarp/Tawa-Māhoe Forest or Treeland
Old-Growth Treelands	Podocarp/Tawa-Māhoe Forest or Treeland; Podocarp Forest or Treeland; Kahikatea-Pukatea-Tawa Forest or Treeland
Kānuka Forests	Kānuka Forest or Treeland
Mānuka Kānuka Shrublands	Kānuka Forest or Treeland
Indigenous Dominated Seepage Wetlands High Value	Seepage and Spring Wetland; Swamp and Marsh Wetland
Indigenous Dominated Seep Wetlands Moderate Value	Seepage and Spring Wetland
Exotic Or Native Dominated Wetlands Low Value	Seepage and Spring Wetland

Legend

- ▲ Bird Count Locations
- Acoustic Wetland Bird Monitoring Locations
- Vegetation Plot
- Lizard Search Areas
- Bat ABM Locations
- Dotterel Habitat
- Temporary works including access tracks, water reservoirs, site offices and stock pile areas
- Spoil Sites
- Alignment
- Chainage
- Proposed Designation Boundary
- Potential Construction Footprint
- ▨ Advanced Secondary Broadleaved Forest
- ▨ Divaricating Shrublands
- ▨ Secondary Broadleaved Forests and Scrublands
- ▨ Secondary Broadleaved Forests with Old-Growth Signatures
- ▨ Old-Growth Treelands - Ramarama
- ▨ Old-Growth Forest Alluvial
- ▨ Old-Growth Forest Hill Country
- ▨ Old-Growth Treelands
- ▨ Kānuka Forests
- ▨ Mānuka Kānuka Shrublands
- ▨ Indigenous Dominated Seepage Wetlands High Value
- ▨ Exotic Or Native Dominated Wetlands Low Value
- ▨ Indigenous Dominate Seepage Wetlands Moderate Value

- Horizons One Plan Schedule F Habitat Classifications**
- Threatened (6)
 - Rare (12)
 - At Risk (0)
 - Full Threatened Area
 - Full Rare Area
 - Full At Risk Area

Detailed habitat surveys areas have generally been limited to within the potential construction footprint



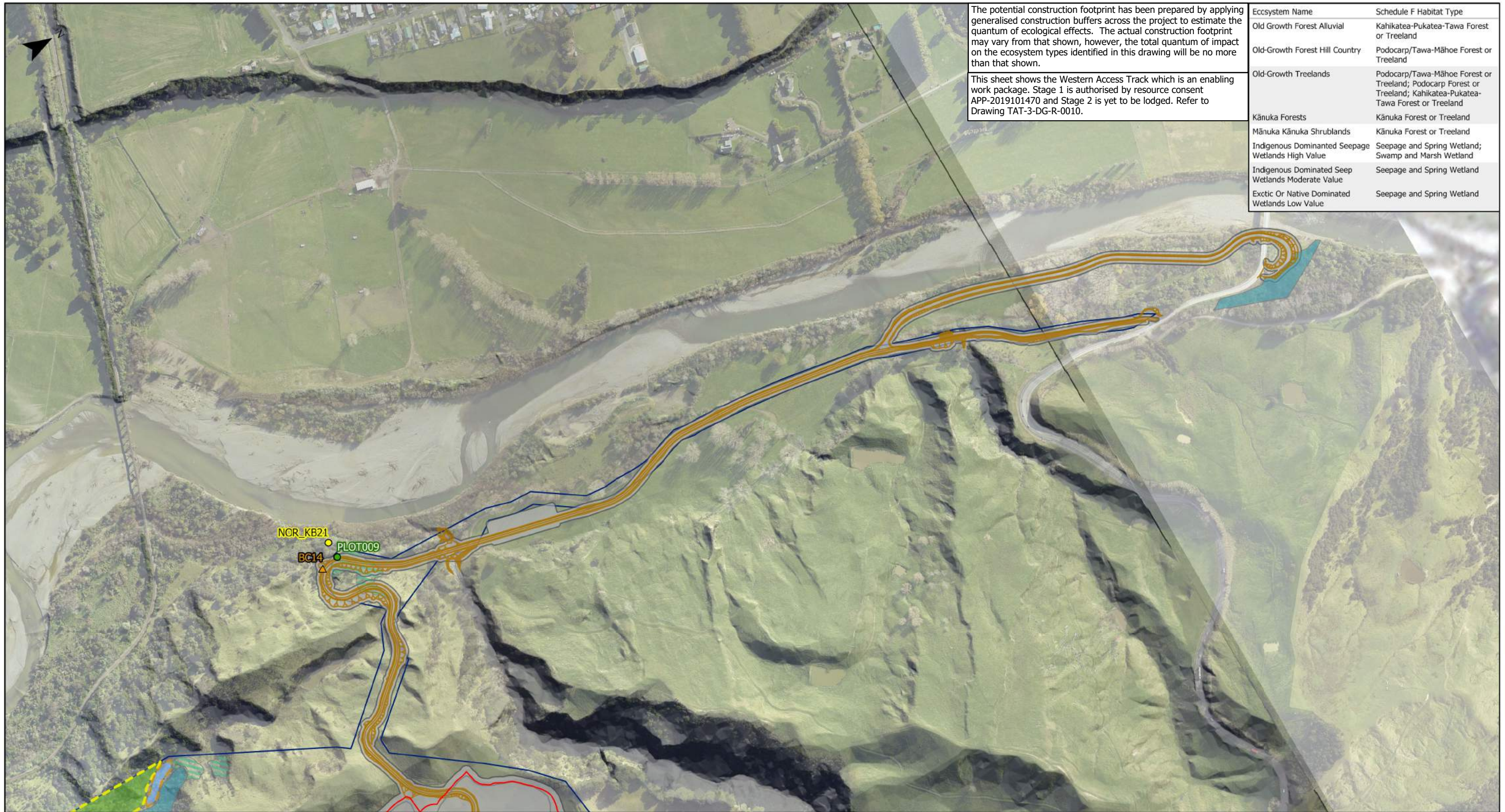
Te Ahu a Turanga
Manawatū Tararua Highway

REV	DATE	REVISION DETAILS	APPROVED
A	24.02.20	ISSUED FOR REGIONAL CONSENT	D. MCGAHAN

SCALE	SIZE
1:5,000	A3
DRAWN	C. SMITH
DESIGNED	D. LAW
REVIEWED	J. MARKHAM

CONSENT	
NOT FOR CONSTRUCTION	
T. WATTERSON	DATE 24/02/2020

PROJECT	TE AHU A TURANGA: MANAWATŪ TARARUA HIGHWAY
TITLE	TERRESTRIAL ECOSYSTEM PLAN SHEET 6
DRAWING No.	PROJECT No. TAT - PHASE 3 - TYPE DG - DISC E - NUMBER 4136 - REV A



The potential construction footprint has been prepared by applying generalised construction buffers across the project to estimate the quantum of ecological effects. The actual construction footprint may vary from that shown, however, the total quantum of impact on the ecosystem types identified in this drawing will be no more than that shown.

This sheet shows the Western Access Track which is an enabling work package. Stage 1 is authorised by resource consent APP-2019101470 and Stage 2 is yet to be lodged. Refer to Drawing TAT-3-DG-R-0010.

Ecosystem Name	Schedule F Habitat Type
Old Growth Forest Alluvial	Kahikatea-Pukatea-Tawa Forest or Treeland
Old-Growth Forest Hill Country	Podocarp/Tawa-Māhoe Forest or Treeland
Old-Growth Treelands	Podocarp/Tawa-Māhoe Forest or Treeland; Podocarp Forest or Treeland; Kahikatea-Pukatea-Tawa Forest or Treeland
Kānuka Forests	Kānuka Forest or Treeland
Mānuka Kānuka Shrublands	Kānuka Forest or Treeland
Indigenous Dominated Seepage Wetlands High Value	Seepage and Spring Wetland; Swamp and Marsh Wetland
Indigenous Dominated Seep Wetlands Moderate Value	Seepage and Spring Wetland
Exotic Or Native Dominated Wetlands Low Value	Seepage and Spring Wetland

Legend

- ▲ Bird Count Locations
- Acoustic Wetland Bird Monitoring Locations
- Vegetation Plot
- ▲ Lizard Search Areas
- Bat ABM Locations
- Dotterel Habitat

- Temporary works including access tracks, water reservoirs, site offices and stock pile areas
- ▲ BC9 Spoil Sites
- ▲ BC11 Spoil Sites
- ▲ BC14 Spoil Sites
- Alignment
- Chainage
- Proposed Designation Boundary
- Potential Construction Footprint
- Advanced Secondary Broadleaved Forest
- Divaricating Shrublands
- Secondary Broadleaved Forests and Scrublands
- Secondary Broadleaved Forests with Old-Growth Signatures
- Old-Growth Treelands - Ramarama

- Old-Growth Forest Alluvial
- Old-Growth Forest Hill Country
- Old-Growth Treelands
- Kānuka Forests
- Mānuka Kānuka Shrublands
- Indigenous Dominated Seepage Wetlands High Value
- Exotic Or Native Dominated Wetlands Low Value
- Indigenous Dominated Seepage Wetlands Moderate Value

Horizons One Plan Schedule F Habitat Classifications

- Threatened (6)
- Rare (12)
- At Risk (0)
- Full Threatened Area
- Full Rare Area
- Full At Risk Area

Detailed habitat surveys areas have generally been limited to within the potential construction footprint

Te Ahu a Turanga
Manawatū Tararua Highway

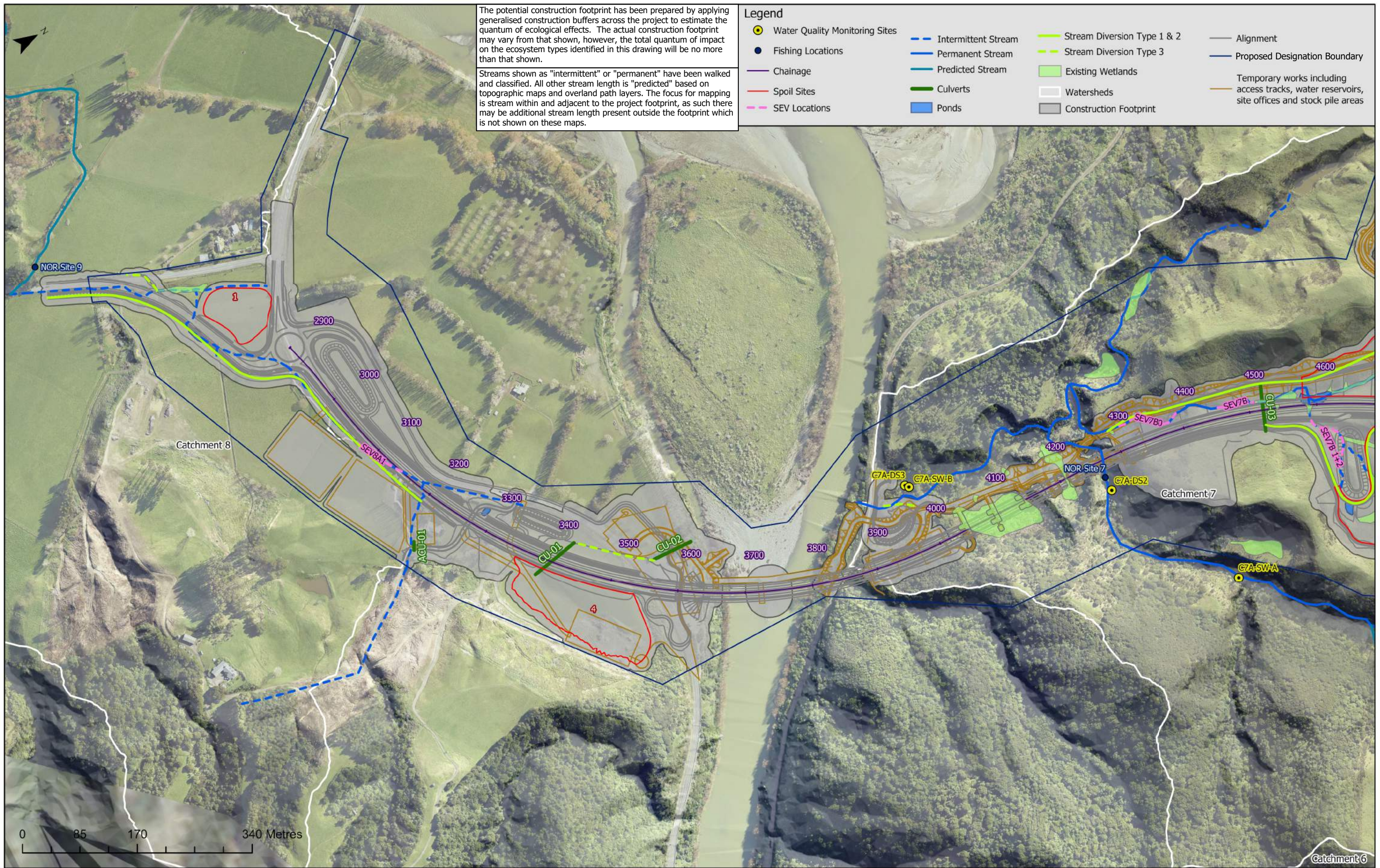
REV	DATE	REVISION DETAILS	APPROVED
A	24.02.20	ISSUED FOR REGIONAL CONSENT	D. MCGAHAN

SCALE	1:5,000	SIZE	A3
DRAWN	C. SMITH	DESIGNED	D. LAW
REVIEWED	J. MARKHAM		

CONSENT
NOT FOR CONSTRUCTION

T. WATTERSON
DATE 24/02/2020

PROJECT	TE AHU A TURANGA: MANAWATŪ TARARUA HIGHWAY					
TITLE	TERRESTRIAL ECOSYSTEM PLAN SHEET 7					
DRAWING No.	PROJECT No.	PHASE	TYPE	DISC	NUMBER	REV
TAT	-	3	-	DG	-	E - 4137 - A

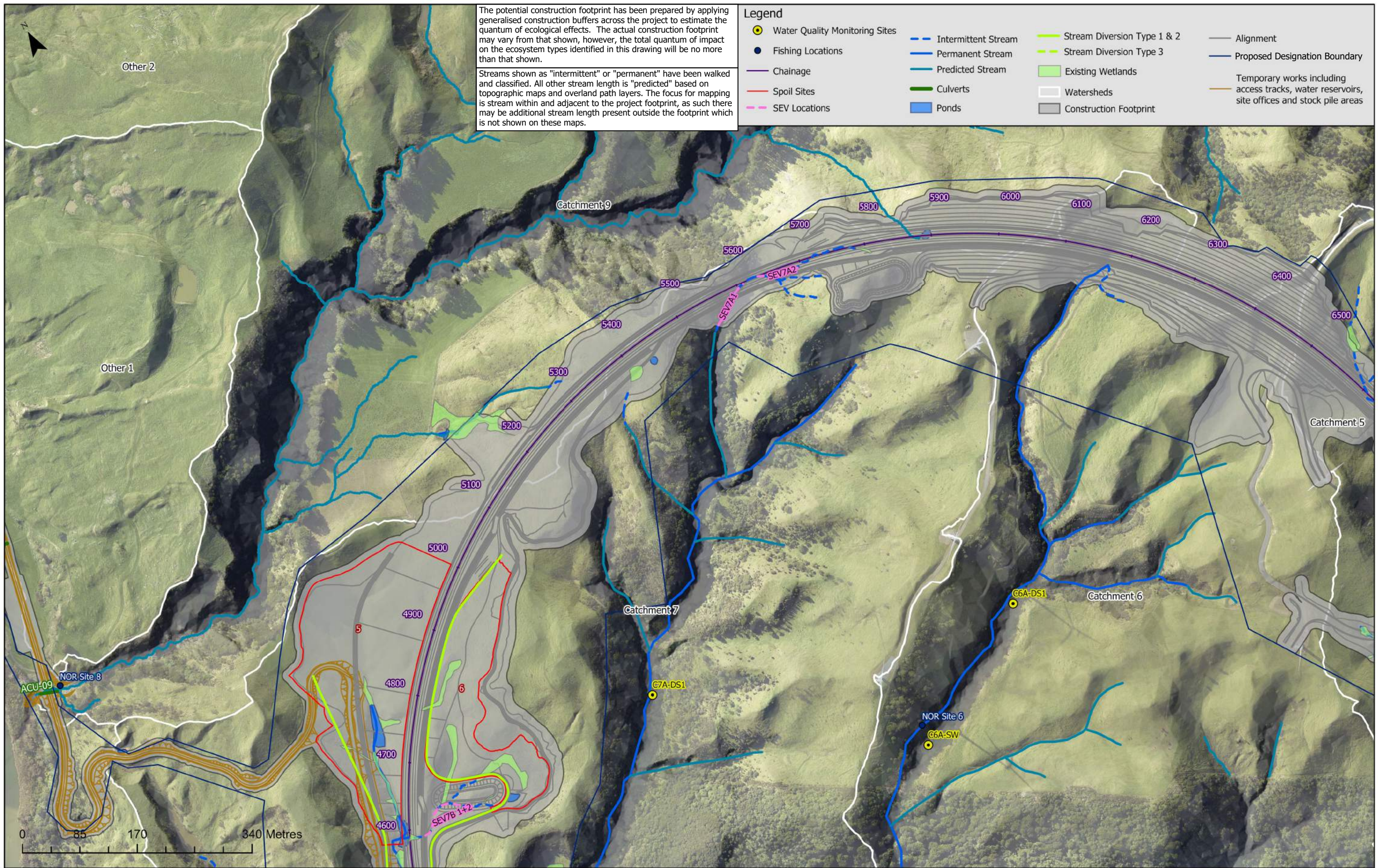


The potential construction footprint has been prepared by applying generalised construction buffers across the project to estimate the quantum of ecological effects. The actual construction footprint may vary from that shown, however, the total quantum of impact on the ecosystem types identified in this drawing will be no more than that shown.

Streams shown as "intermittent" or "permanent" have been walked and classified. All other stream length is "predicted" based on topographic maps and overland path layers. The focus for mapping is stream within and adjacent to the project footprint, as such there may be additional stream length present outside the footprint which is not shown on these maps.

- Legend**
- Water Quality Monitoring Sites
 - Fishing Locations
 - Chainage
 - Spoil Sites
 - SEV Locations
 - Intermittent Stream
 - Permanent Stream
 - Predicted Stream
 - Culverts
 - Ponds
 - Stream Diversion Type 1 & 2
 - Stream Diversion Type 3
 - Existing Wetlands
 - Watersheds
 - Construction Footprint
 - Alignment
 - Proposed Designation Boundary
 - Temporary works including access tracks, water reservoirs, site offices and stock pile areas

CLIENT 	Te Ahu a Turanga Manawātū Tararua Highway			REV A	DATE 24.02.20	REVISION DETAILS ISSUED FOR REGIONAL CONSENT	APPROVED D. McGAHAN	SCALE 1:5,000	SIZE A3	CONSENT NOT FOR CONSTRUCTION	PROJECT TE AHU A TURANGA: MANAWATU TARARUA HIGHWAY
									DRAWN C. SMITH DESIGNED D. LAW REVIEWED J. QUINN	DATE 24/02/2020 T. WATTERSON	TITLE FRESHWATER ECOSYSTEM PLAN SHEET 1
		DRAWING No. TAT	PROJECT No. -	PHASE 3	TYPE - DG	DISC - E	NUMBER - 4141	REV - A			



The potential construction footprint has been prepared by applying generalised construction buffers across the project to estimate the quantum of ecological effects. The actual construction footprint may vary from that shown, however, the total quantum of impact on the ecosystem types identified in this drawing will be no more than that shown.

Streams shown as "intermittent" or "permanent" have been walked and classified. All other stream length is "predicted" based on topographic maps and overland path layers. The focus for mapping is stream within and adjacent to the project footprint, as such there may be additional stream length present outside the footprint which is not shown on these maps.

- Legend**
- Water Quality Monitoring Sites
 - Fishing Locations
 - Chainage
 - Spoil Sites
 - SEV Locations
 - Intermittent Stream
 - Permanent Stream
 - Predicted Stream
 - Culverts
 - Ponds
 - Stream Diversion Type 1 & 2
 - Stream Diversion Type 3
 - Existing Wetlands
 - Watersheds
 - Construction Footprint
 - Alignment
 - Proposed Designation Boundary
 - Temporary works including access tracks, water reservoirs, site offices and stock pile areas

CLIENT

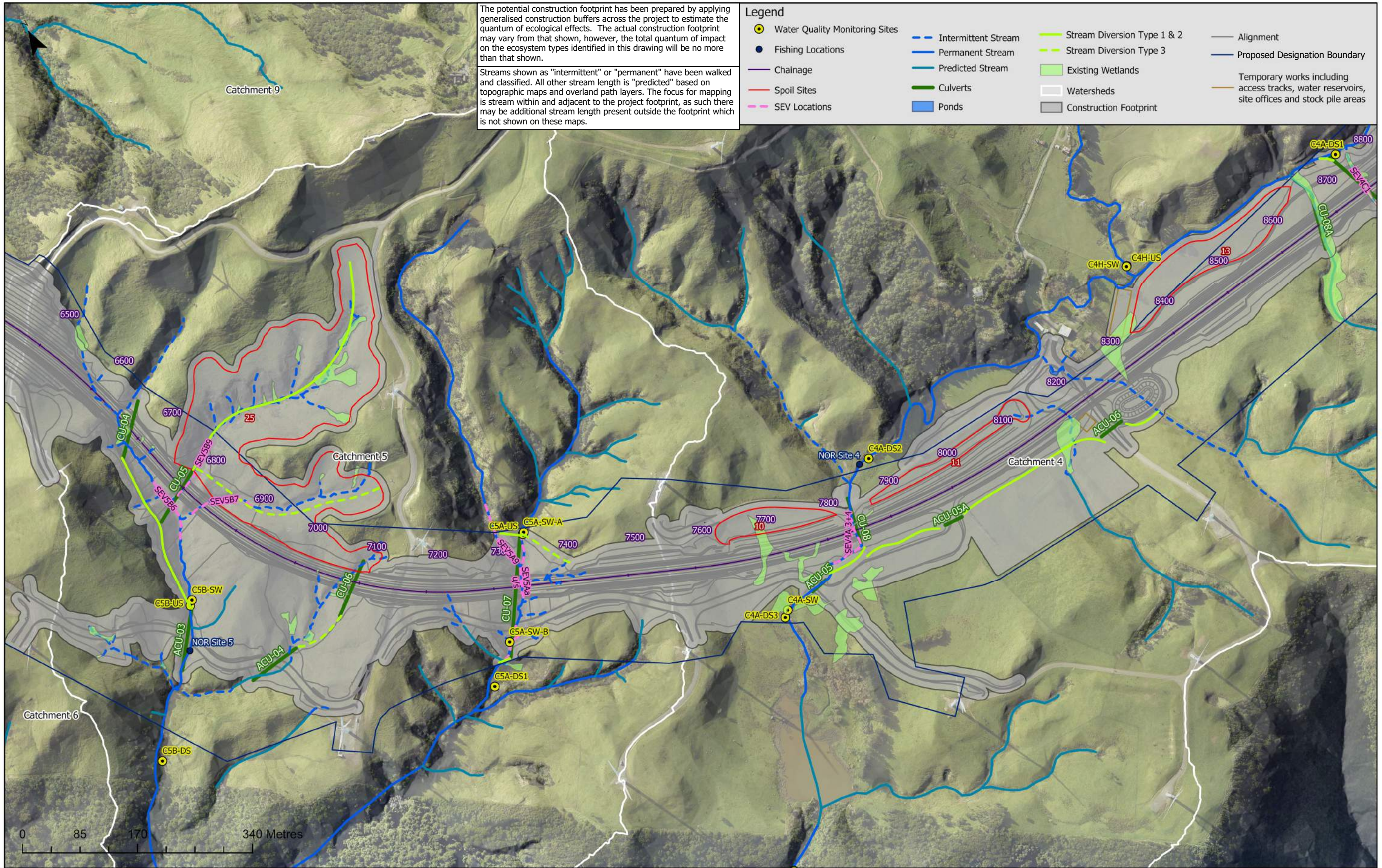
Te Ahu a Turanga
Manawatū Tararua Highway

REV	DATE	REVISION DETAILS	APPROVED
A	24.02.20	ISSUED FOR REGIONAL CONSENT	D. MCGAHAN

SCALE	SIZE
1:5,000	A3
DRAWN	
C. SMITH	
DESIGNED	
D. LAW	
REVIEWED	
J. QUINN	

CONSENT	
NOT FOR CONSTRUCTION	
DATE	
24/02/2020	
T. WATTERSON	
T. WATTERSON	

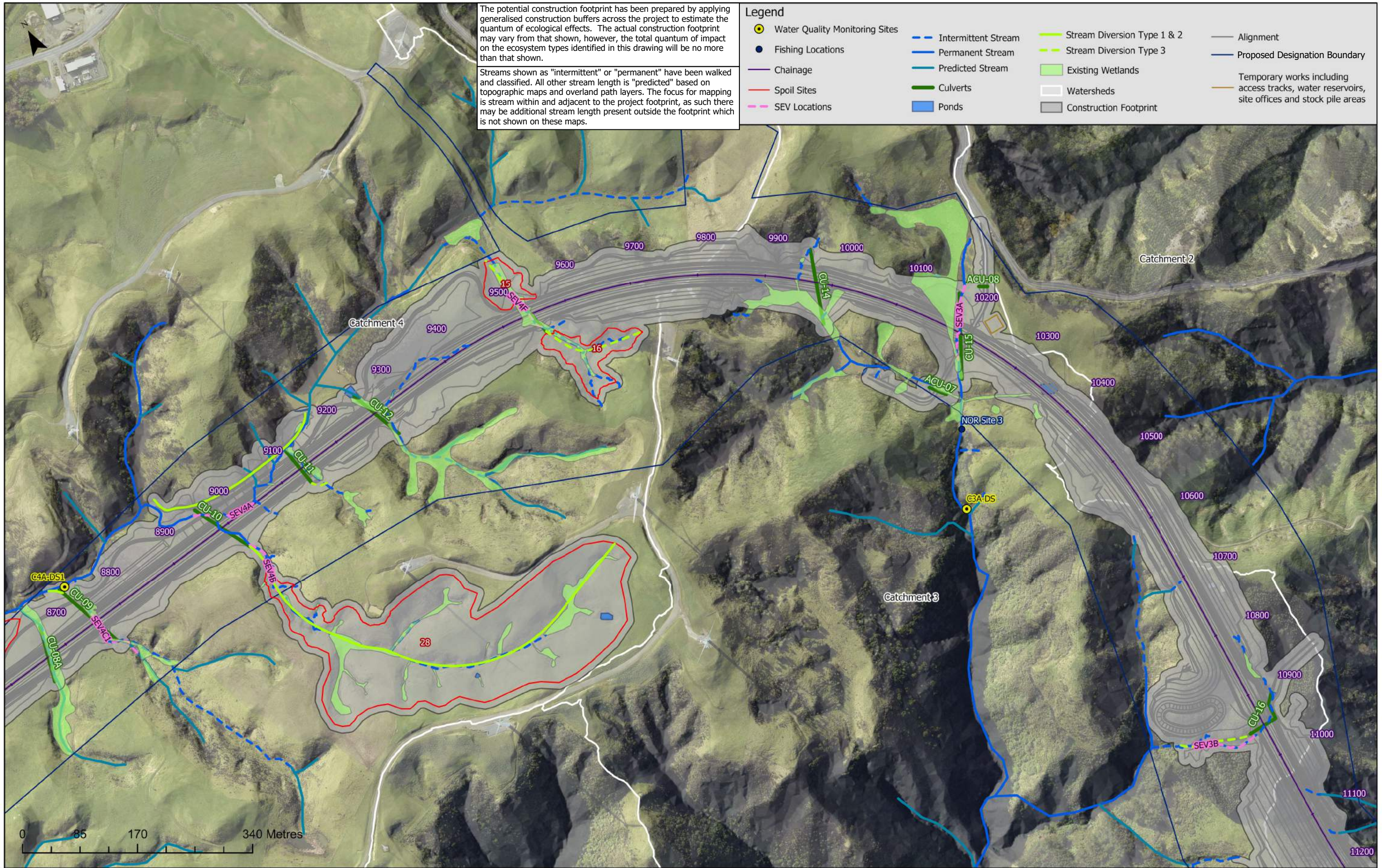
PROJECT	TE AHU A TURANGA: MANAWATU TARARUA HIGHWAY					
TITLE	FRESHWATER ECOSYSTEM PLAN SHEET 2					
DRAWING No.	PROJECT No.	PHASE	TYPE	DISC	NUMBER	REV
TAT	TAT	3	DG	E	4142	A



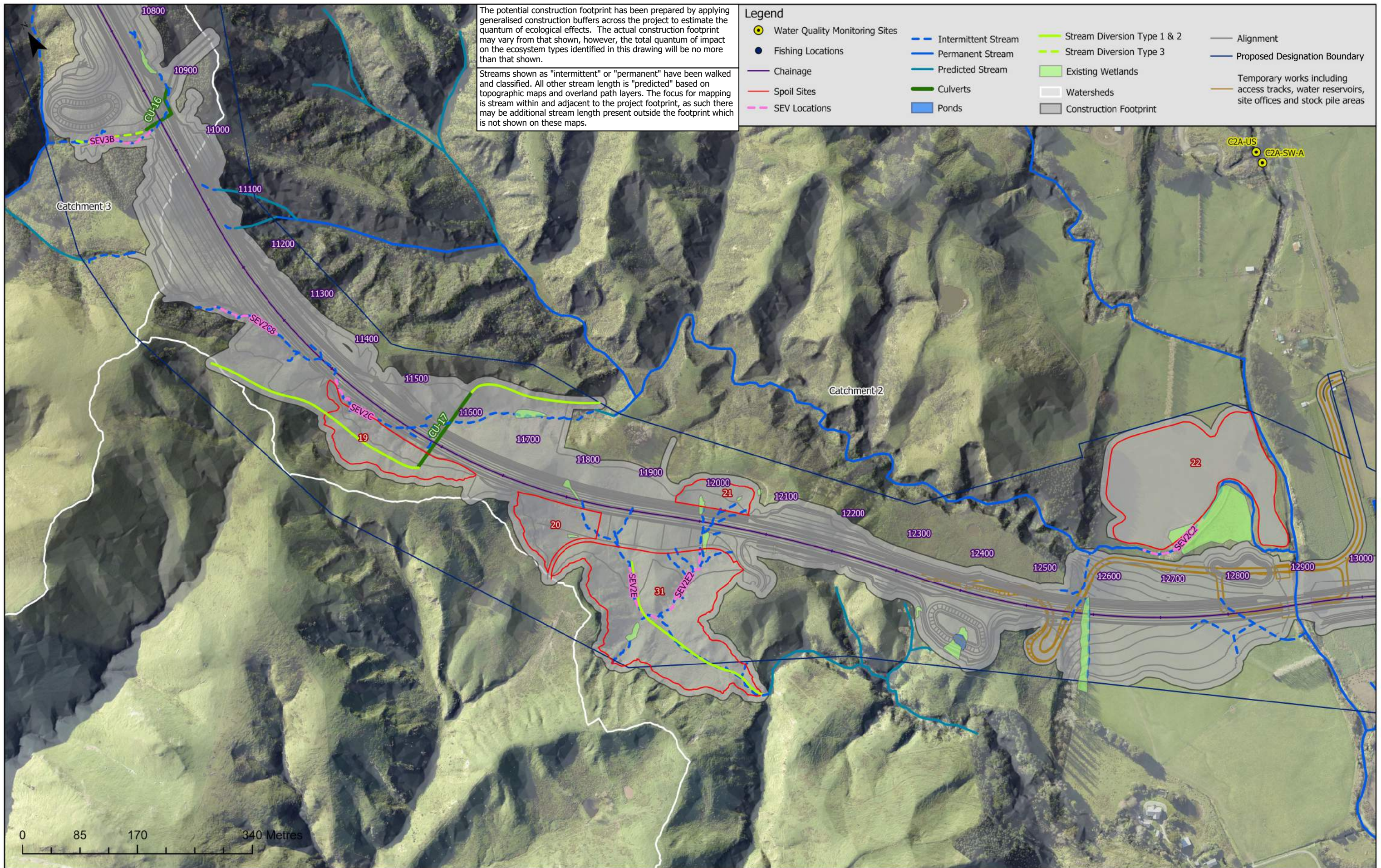
The potential construction footprint has been prepared by applying generalised construction buffers across the project to estimate the quantum of ecological effects. The actual construction footprint may vary from that shown, however, the total quantum of impact on the ecosystem types identified in this drawing will be no more than that shown.

Streams shown as "intermittent" or "permanent" have been walked and classified. All other stream length is "predicted" based on topographic maps and overland path layers. The focus for mapping is stream within and adjacent to the project footprint, as such there may be additional stream length present outside the footprint which is not shown on these maps.

- Legend**
- Water Quality Monitoring Sites
 - Fishing Locations
 - Chainage
 - Spoil Sites
 - SEV Locations
 - Intermittent Stream
 - Permanent Stream
 - Predicted Stream
 - Culverts
 - Ponds
 - Stream Diversion Type 1 & 2
 - Stream Diversion Type 3
 - Existing Wetlands
 - Watersheds
 - Construction Footprint
 - Alignment
 - Proposed Designation Boundary
 - Temporary works including access tracks, water reservoirs, site offices and stock pile areas



CLIENT 	REVISIONS <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>REVISION DETAILS</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>24.02.20</td> <td>ISSUED FOR REGIONAL CONSENT</td> </tr> </tbody> </table>			REV	DATE	REVISION DETAILS	A	24.02.20	ISSUED FOR REGIONAL CONSENT	APPROVED D. McGAHAN	SCALE 1:5,000	SIZE A3	CONSENT NOT FOR CONSTRUCTION	PROJECT TE AHU A TURANGA: MANAWATU TARARUA HIGHWAY
	REV	DATE	REVISION DETAILS											
A	24.02.20	ISSUED FOR REGIONAL CONSENT												
	APPROVED D. McGAHAN	SCALE 1:5,000	SIZE A3	CONSENT NOT FOR CONSTRUCTION	DATE 24/02/2020	TITLE FRESHWATER ECOSYSTEM PLAN SHEET 4	DRAWING No. TAT - 3 - DG - E - 4144 - A							
				DRAWN C. SMITH		T. WATTERSON	PROJECT No. TAT							
				DESIGNED D. LAW			PHASE 3							
				REVIEWED J. QUINN			TYPE DG							
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							NUMBER 4144							
							REV A							

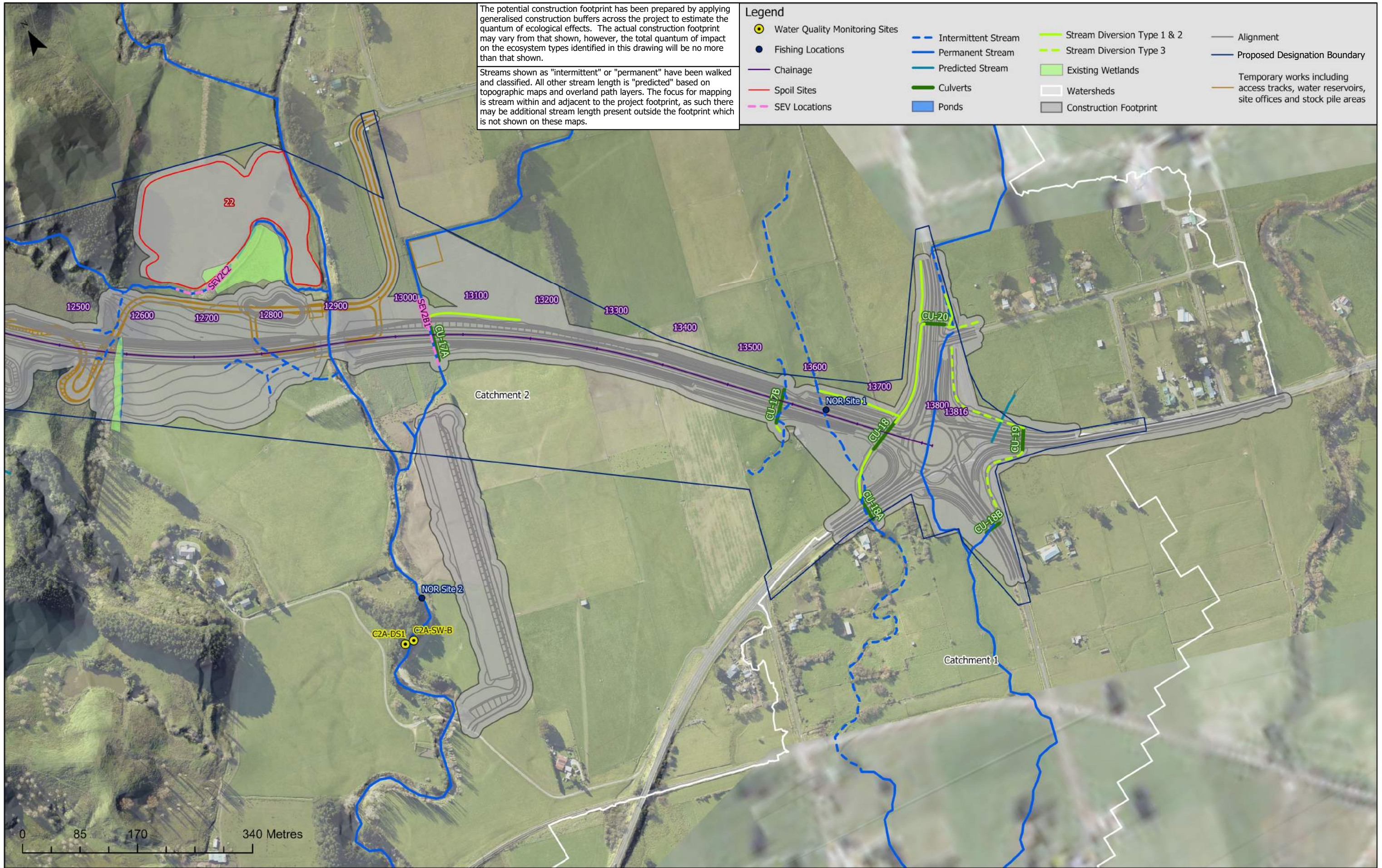


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SCALE	SIZE
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DRAWN	
C. SMITH	
DESIGNED	
D. LAW	
REVIEWED	
J. QUINN	

CONSENT	
NOT FOR CONSTRUCTION	
DATE	
24/02/2020	
T. WATTERSON	
T. WATTERSON	

PROJECT	TE AHU A TURANGA: MANAWATU TARARUA HIGHWAY					
TITLE	FRESHWATER ECOSYSTEM PLAN SHEET 5					
DRAWING No.	PROJECT No.	PHASE	TYPE	DISC	NUMBER	REV
TAT		3	DG	E	4145	A



CLIENT



Te Ahu a Turanga
Manawātū Tararua Highway

REV	DATE	REVISION DETAILS	APPROVED
A	24.02.20	ISSUED FOR REGIONAL CONSENT	D. McGAHAN

SCALE	SIZE
1:5,000	A3
DRAWN C. SMITH	
DESIGNED D. LAW	
REVIEWED J. QUINN	

CONSENT	
NOT FOR CONSTRUCTION	
T. WATTERSON	DATE 24/02/2020
T. WATTERSON	

PROJECT	TE AHU A TURANGA: MANAWATU TARARUA HIGHWAY
TITLE	FRESHWATER ECOSYSTEM PLAN SHEET 6
DRAWING No.	PROJECT No. TAT - PHASE 3 - TYPE DG - DISC E - NUMBER 4146 - REV A

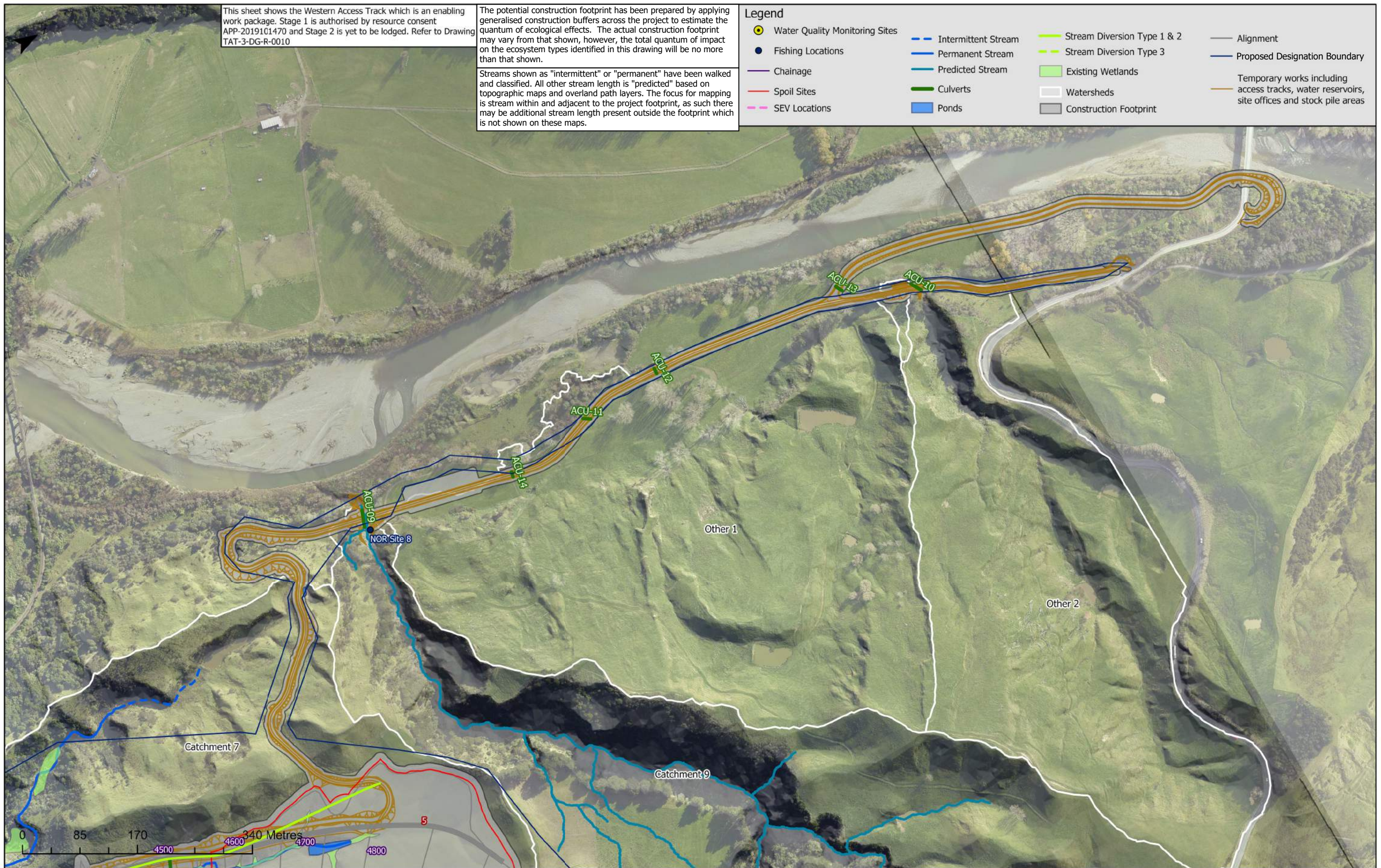
This sheet shows the Western Access Track which is an enabling work package. Stage 1 is authorised by resource consent APP-2019101470 and Stage 2 is yet to be lodged. Refer to Drawing TAT-3-DG-R-0010

The potential construction footprint has been prepared by applying generalised construction buffers across the project to estimate the quantum of ecological effects. The actual construction footprint may vary from that shown, however, the total quantum of impact on the ecosystem types identified in this drawing will be no more than that shown.

Streams shown as "intermittent" or "permanent" have been walked and classified. All other stream length is "predicted" based on topographic maps and overland path layers. The focus for mapping is stream within and adjacent to the project footprint, as such there may be additional stream length present outside the footprint which is not shown on these maps.

Legend

- Water Quality Monitoring Sites
- Fishing Locations
- Chainage
- Spoil Sites
- SEV Locations
- Intermittent Stream
- Permanent Stream
- Predicted Stream
- Culverts
- Ponds
- Stream Diversion Type 1 & 2
- Stream Diversion Type 3
- Existing Wetlands
- Watersheds
- Construction Footprint
- Alignment
- Proposed Designation Boundary
- Temporary works including access tracks, water reservoirs, site offices and stock pile areas



CLIENT



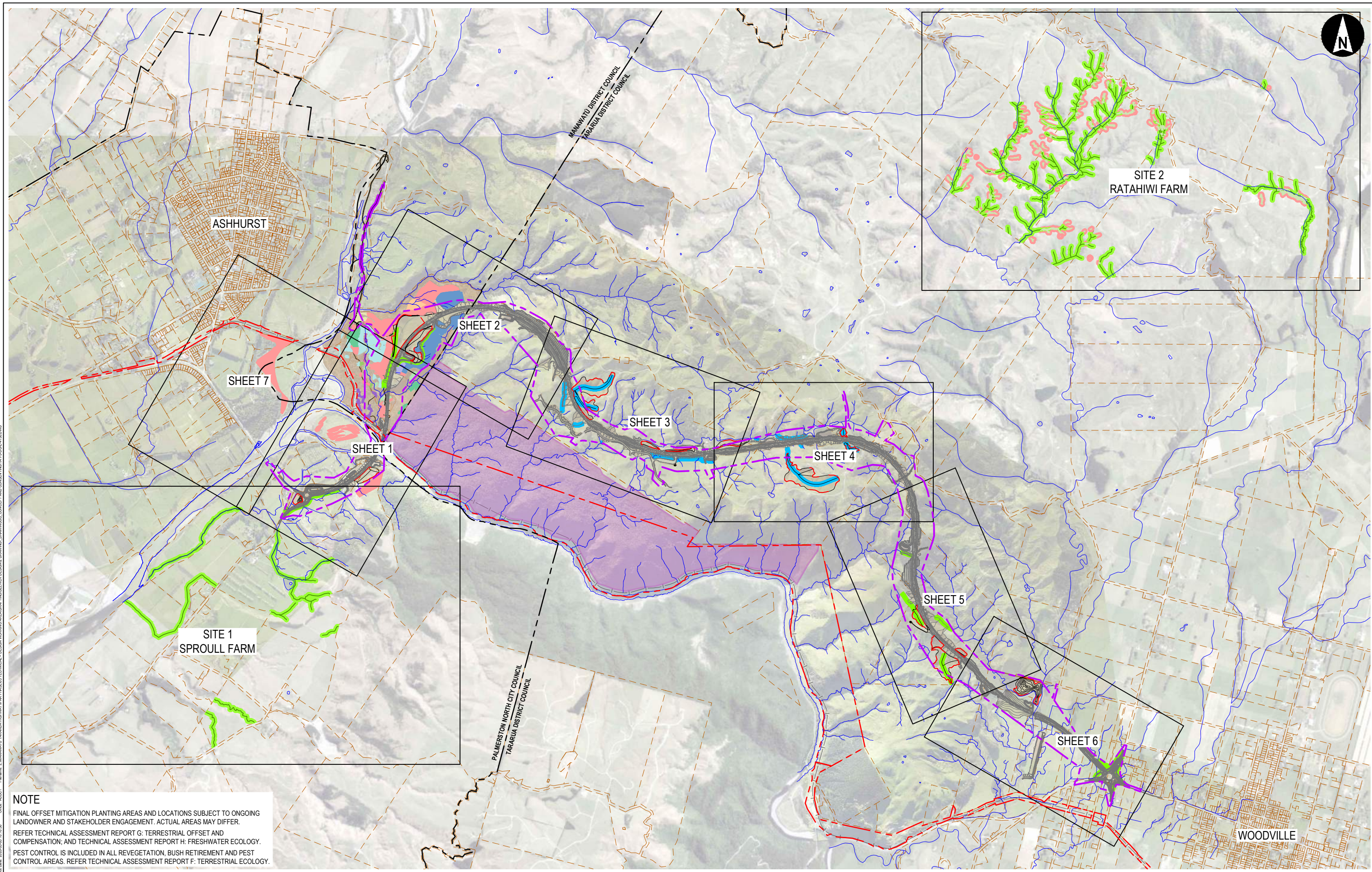
Te Ahu a Turanga
Manawatū Tararua Highway

REV	DATE	REVISION DETAILS	APPROVED
A	24.02.20	ISSUED FOR REGIONAL CONSENT	D. McGAHAN

SCALE	SIZE
1:5,000	A3
DRAWN C. SMITH	
DESIGNED D. LAW	
REVIEWED J. QUINN	

CONSENT	
NOT FOR CONSTRUCTION	
T. WATTERSON	DATE 24/02/2020
T. WATTERSON	

PROJECT	TE AHU A TURANGA: MANAWATU TARARUA HIGHWAY
TITLE	FRESHWATER ECOSYSTEM PLAN SHEET 7
DRAWING No.	PROJECT No. TAT - PHASE 3 - TYPE DG - DISC E - NUMBER 4147 - REV A



Pd Doc: 2020/02/05 10:10:36
 Client: AUCI
 Project: 2 MANAWATU TARARUA HIGHWAY/PAH PHASE 03/TECHNICAL - DESIGN WORKING REGULATORY/DESIGN DRAWING, DRAWINGS, CONCEPT AND CONSENTING/PA13/02CF-415/DWG

NOTE
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 PEST CONTROL IS INCLUDED IN ALL REVEGETATION, BUSH RETIREMENT AND PEST CONTROL AREAS. REFER TECHNICAL ASSESSMENT REPORT F: TERRESTRIAL ECOLOGY.



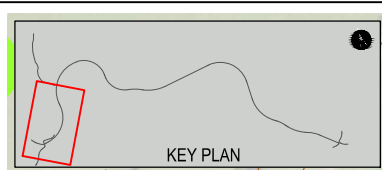
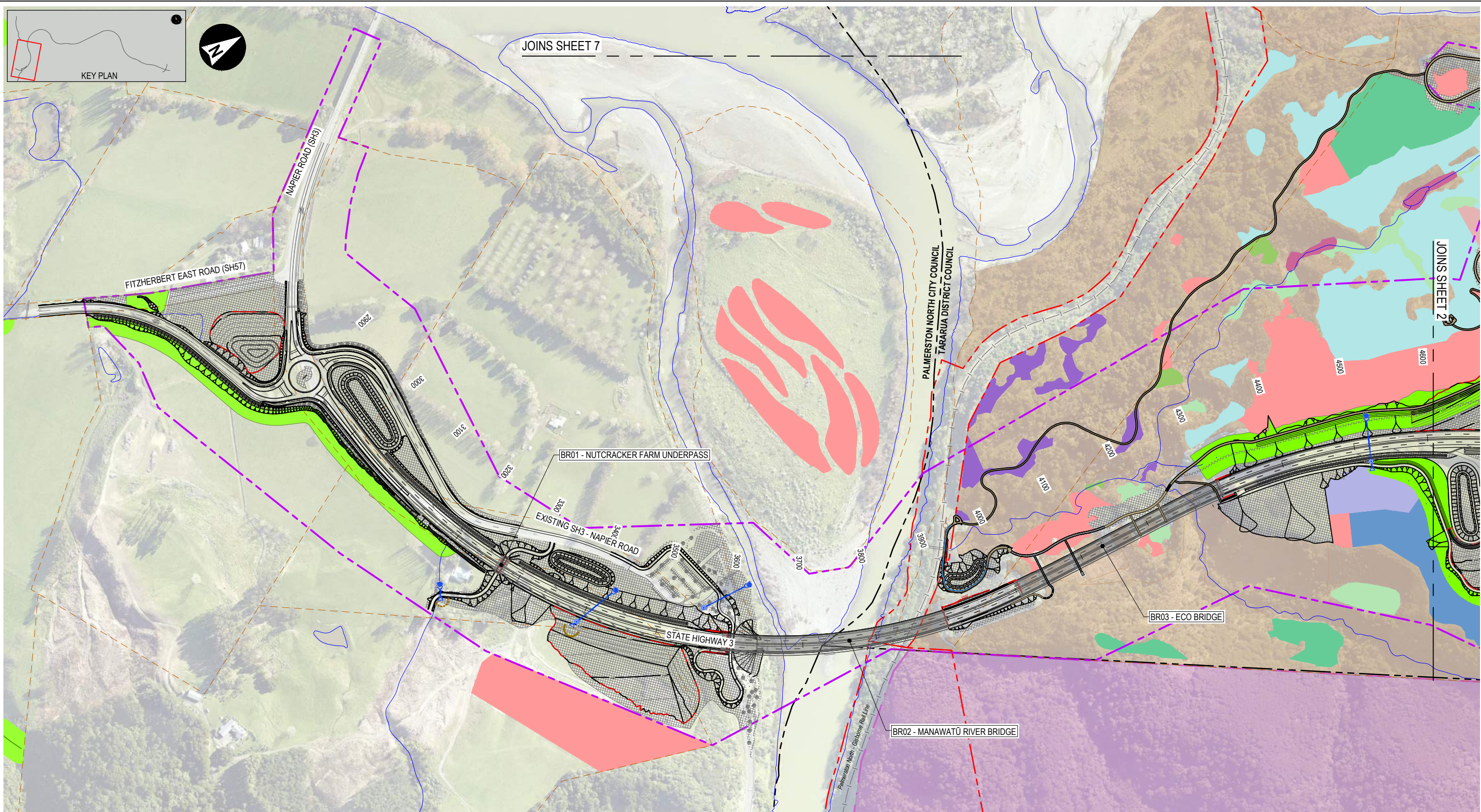
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REV	DATE	REVISION DETAILS	APPROVED
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SCALE	SIZE
NOT TO SCALE	A1
DRAWN	K. MISTRY
DESIGNED	D. LAW
REVIEWED	J. MARKHAM

CONSENT	
NOT FOR CONSTRUCTION	
APPROVED	
T. WATTERSON	DATE 24/02/2020
T. WATTERSON	

PROJECT	TE AHU A TURANGA: MANAWATŪ TARARUA HIGHWAY												
TITLE	PROPOSED ECOLOGICAL OFFSET / COMPENSATION KEY PLAN												
DRAWING No.	TAT	PROJECT No.		PHASE	3	TYPE	DG	DISC	E	NUMBER	4150	REV	A



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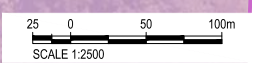
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	KIWI RAIL DESIGNATION
	EXISTING PROPERTY BOUNDARY
	EXISTING STREAMS
	SPOIL SITES
	STREAM DIVERSION
	STORMWATER CULVERT (PROPOSED)
	TAP03 WIND TURBINE
	BUSH RETIREMENT COMPENSATION
	PEST CONTROL COMPENSATION
	STREAM DIVERSION PLANTING
	STREAM DIVERSION PLANTING (TE ĀPITI WINDFARM)
	LANDSCAPE PLANTING

REVEGETATION TYPES

	ADVANCED SECONDARY BROADLEAF FOREST OFFSET
	DIVARICATING SHRUBLANDS OFFSET
	EXOTIC WETLANDS (LOW VALUE) COMPENSATION
	INDIGENOUS DOMINATED SEEPAGE WETLAND (MOD VALUE) COMPENSATION
	KĀNUKA FOREST OFFSET
	MĀNUKA AND KĀNUKA FOREST SHRUBLANDS OFFSET
	OLD GROWTH FOREST (ALLUVIAL) COMPENSATION
	OLD GROWTH FOREST (HILL COUNTRY) COMPENSATION
	OLD GROWTH TREELANDS OFFSET
	RAUPO DOMINATED SEEPAGE WETLAND (HIGH VALUE) COMPENSATION
	SECONDARY BROADLEAVED FOREST AND SCRUBLANDS OFFSET
	SECONDARY BROADLEAVED FOREST WITH OLD GROWTH SIGNATURES OFFSET

NOTE

FINAL OFFSET MITIGATION PLANTING AREAS AND LOCATIONS SUBJECT TO ONGOING LANDOWNER AND STAKEHOLDER ENGAGEMENT. ACTUAL AREAS MAY DIFFER. REFER TECHNICAL ASSESSMENT REPORT G: TERRESTRIAL OFFSET AND COMPENSATION; AND TECHNICAL ASSESSMENT REPORT H: FRESHWATER ECOLOGY. PEST CONTROL IS INCLUDED IN ALL REVEGETATION, BUSH RETIREMENT AND PEST CONTROL AREAS. REFER TECHNICAL ASSESSMENT REPORT F: TERRESTRIAL ECOLOGY.



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 Client: WAKA KOTAHĪ

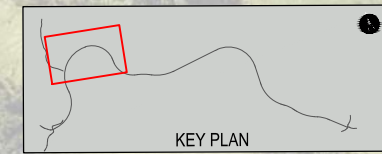
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DRAWN	K. MISTRY	DESIGNED	D. LAW	REVIEWED	J. MARKHAM	APPROVED	T. WATTERSON	DATE	24/02/2020	TITLE	PROPOSED ECOLOGICAL OFFSET/COMPENSATION PLAN SHEET 1						
DRAWING No.	TAT	PROJECT No.	3	PHASE	DG	TYPE	E	DISC	4151	NUMBER	4151	REV	A				

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 - COUNCIL BOUNDARY
 - KIWRAIL DESIGNATION
 - EXISTING PROPERTY BOUNDARY
 - EXISTING STREAMS
 - SPOIL SITES
 - STREAM DIVERSION

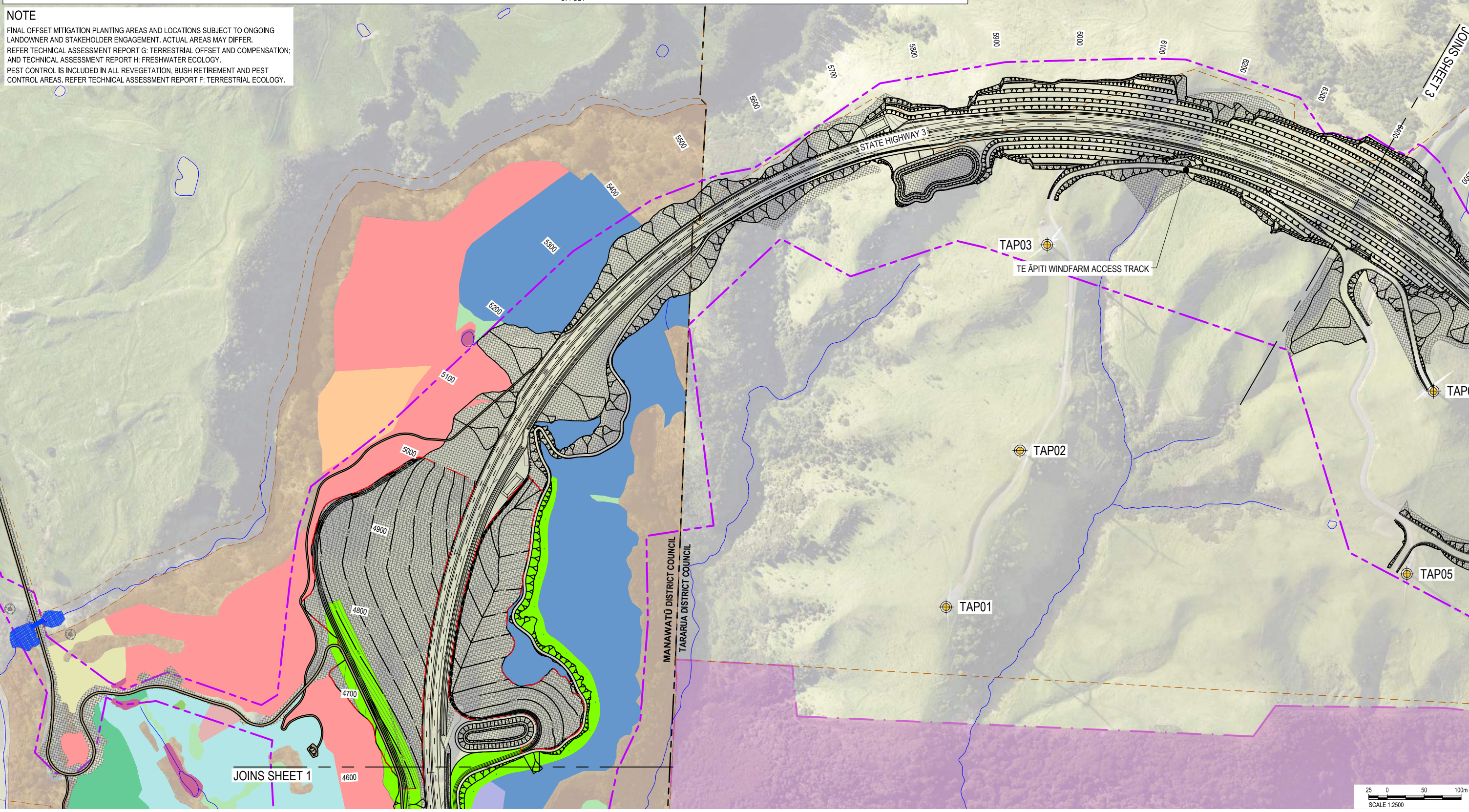
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- TAP03 WIND TURBINE
- BUSH RETIREMENT COMPENSATION
- PEST CONTROL COMPENSATION
- STREAM DIVERSION PLANTING
- STREAM DIVERSION PLANTING (TE ĀPITI WINDFARM)
- LANDSCAPE PLANTING

- REVEGETATION TYPES**
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 - EXOTIC WETLANDS (LOW VALUE) COMPENSATION
 - INDIGENOUS DOMINATED SEEPAGE WETLAND (MOD VALUE) COMPENSATION
 - KĀNUKA FOREST OFFSET
 - MĀNUKA AND KĀNUKA FOREST SHRUBLANDS OFFSET

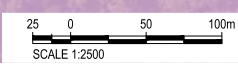
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- OLD GROWTH FOREST (HILL COUNTRY) COMPENSATION
- OLD GROWTH TREELANDS OFFSET
- RAUPO DOMINATED SEEPAGE WETLAND (HIGH VALUE) COMPENSATION
- SECONDARY BROADLEAVED FOREST AND SCRUBLANDS OFFSET
- SECONDARY BROADLEAVED FOREST WITH OLD GROWTH SIGNATURES OFFSET



NOTE
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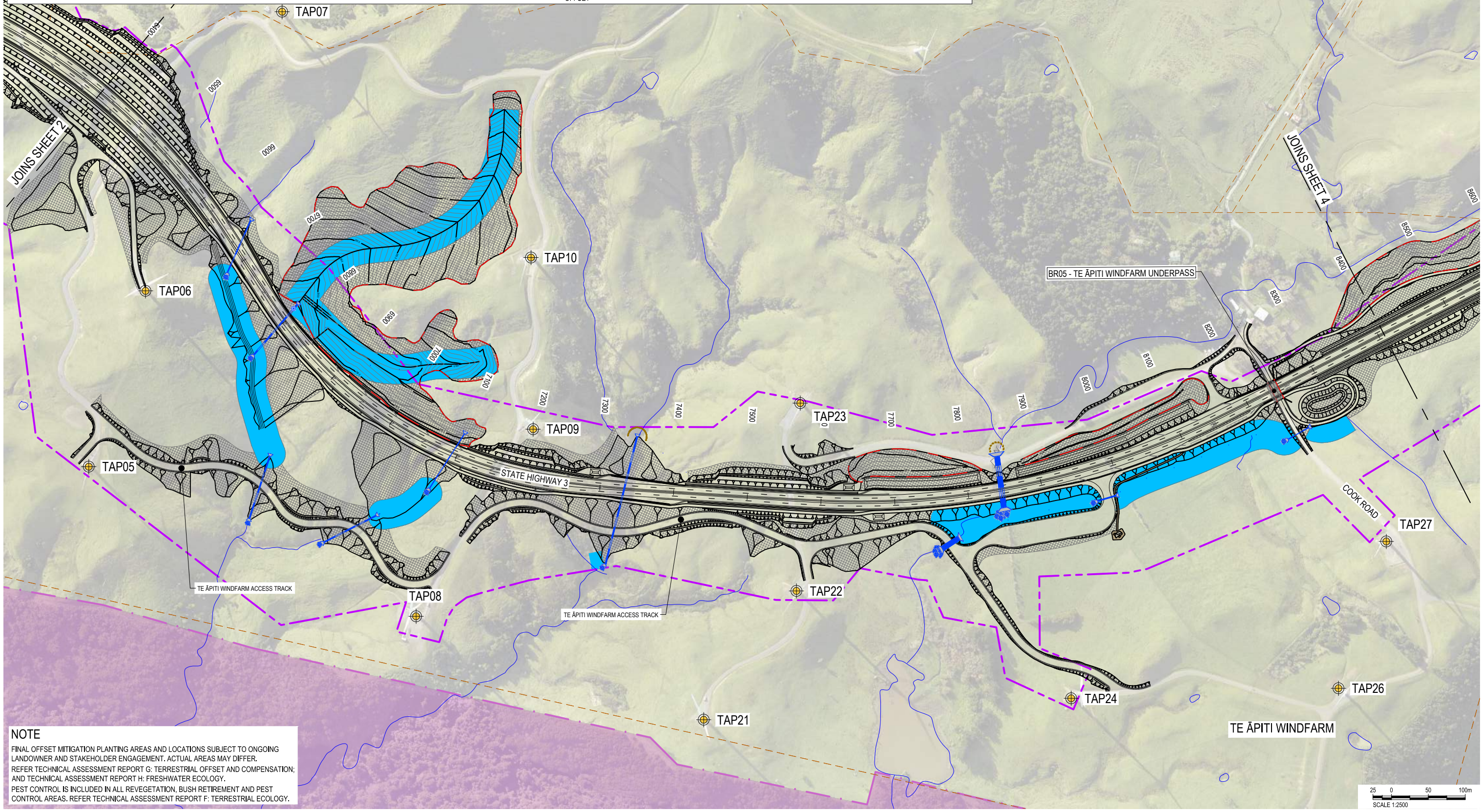
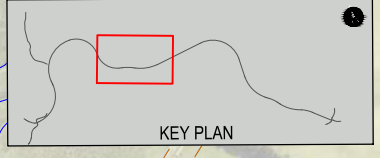
Te Ahu a Turanga
 Manawatū Tararua Highway

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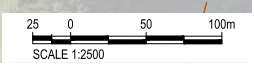
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- PROPOSED DESIGNATION BOUNDARY
- COUNCIL BOUNDARY
- KIWRAIL DESIGNATION
- EXISTING PROPERTY BOUNDARY
- EXISTING STREAMS
- SPOIL SITES
- STREAM DIVERSION
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							DATE	PROPOSED ECOLOGICAL OFFSET/COMPENSATION PLAN
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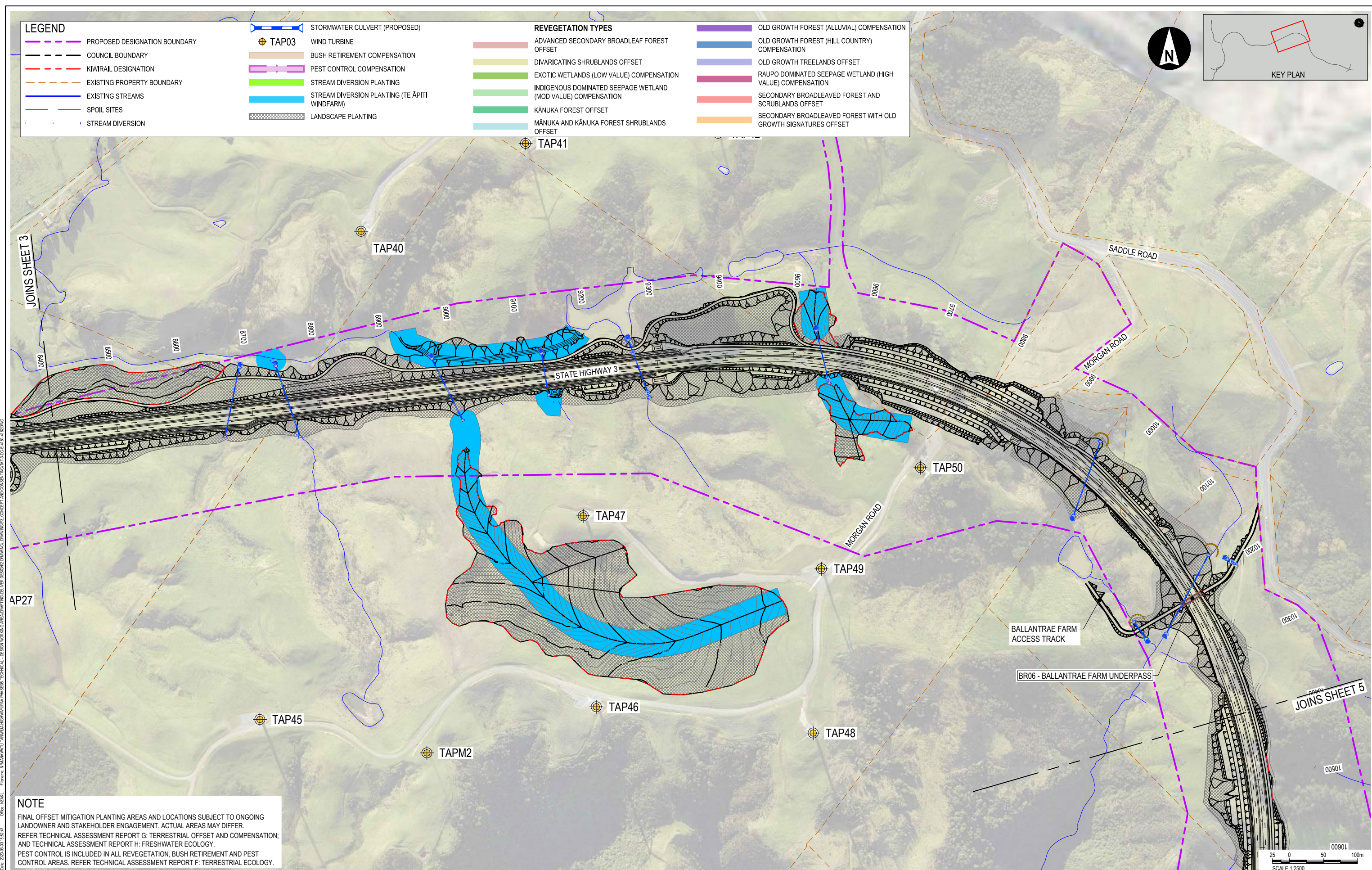
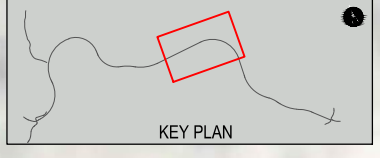
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- COUNCIL BOUNDARY
- KIWI RAIL DESIGNATION
- EXISTING PROPERTY BOUNDARY
- EXISTING STREAMS
- SPOIL SITES
- STREAM DIVERSION

- STORMWATER CULVERT (PROPOSED)
- TAP03 WIND TURBINE
- BUSH RETIREMENT COMPENSATION
- PEST CONTROL COMPENSATION
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- STREAM DIVERSION PLANTING (TE ĀPITI WINDFARM)
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- ADVANCED SECONDARY BROADLEAF FOREST OFFSET
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- SECONDARY BROADLEAVED FOREST AND SCRUBLANDS OFFSET
- SECONDARY BROADLEAVED FOREST WITH OLD GROWTH SIGNATURES OFFSET



Project No: 2020/03/15/07 Client: NZTA Engineer: N. MANAWATU TARARUA HIGHWAY TEAM DESIGN: TECHNICAL DESIGN WORKING HEADQUARTERS DESIGN DRAWING DRAWING: CONCEPT AND CONSENTING/1:1000-4154/182/DWG

NOTE
 FINAL OFFSET MITIGATION PLANTING AREAS AND LOCATIONS SUBJECT TO ONGOING LANDOWNER AND STAKEHOLDER ENGAGEMENT. ACTUAL AREAS MAY DIFFER.
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Te Ahu a Turanga
 Manawātū Tararua Highway

CLIENT

REV	DATE	REVISION DETAILS	APPROVED
A	24/02/2020	ISSUED FOR REGIONAL CONSENT	D. MCGAHAN

SCALE	1:2500
SIZE	A1
DRAWN	K. MISTRY
DESIGNED	D. LAW
REVIEWED	J. MARKHAM

CONSENT NOT FOR CONSTRUCTION	
APPROVED	DATE
T. WATTERSON	24/02/2020
T. WATTERSON	

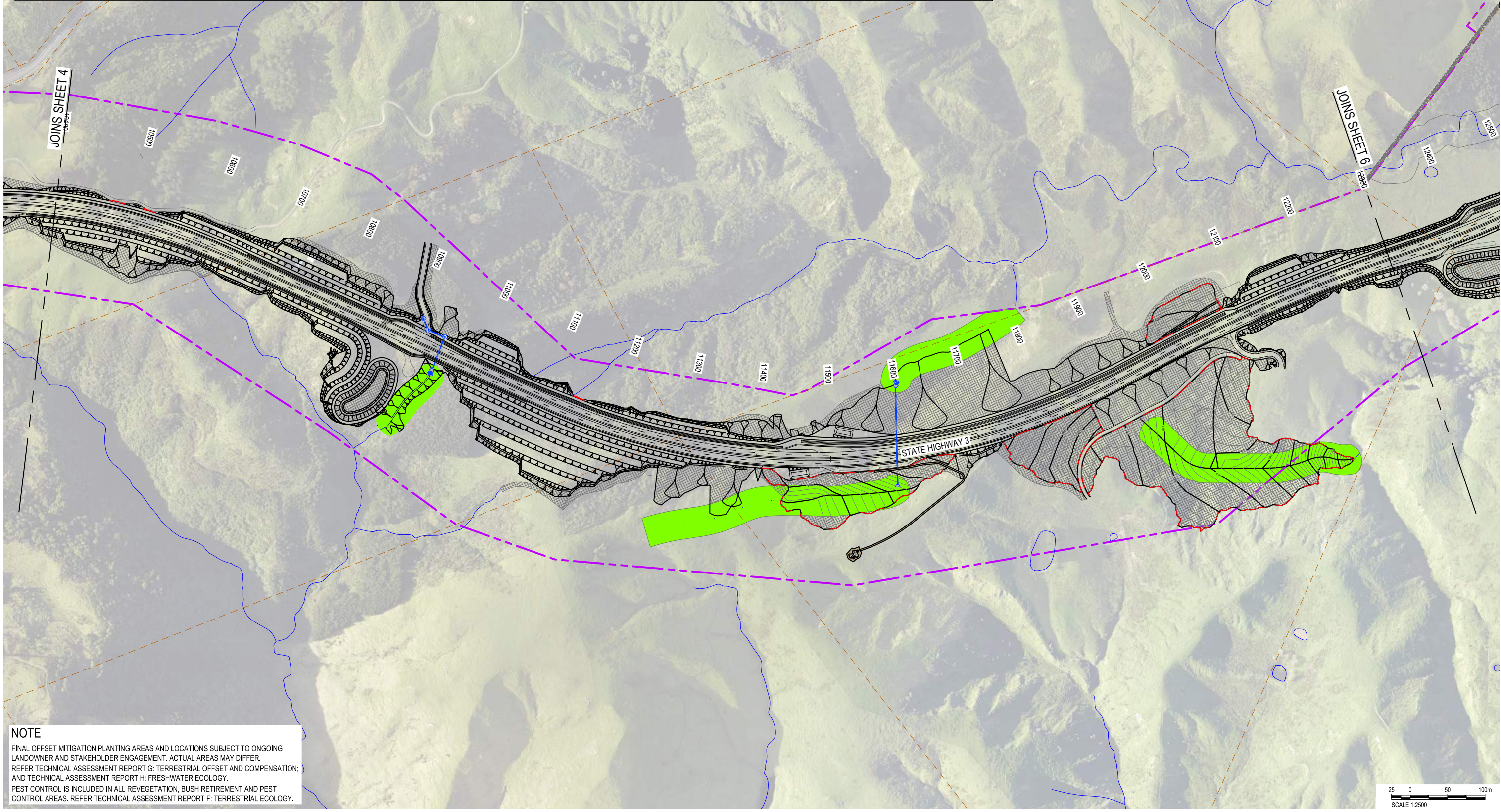
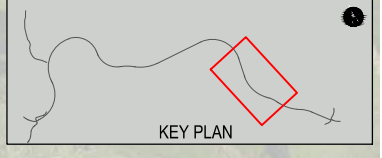
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TAT		3	DG	E	4154
					REV
					A

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 - COUNCIL BOUNDARY
 - KIWI RAIL DESIGNATION
 - EXISTING PROPERTY BOUNDARY
 - EXISTING STREAMS
 - SPOIL SITES
 - STREAM DIVERSION

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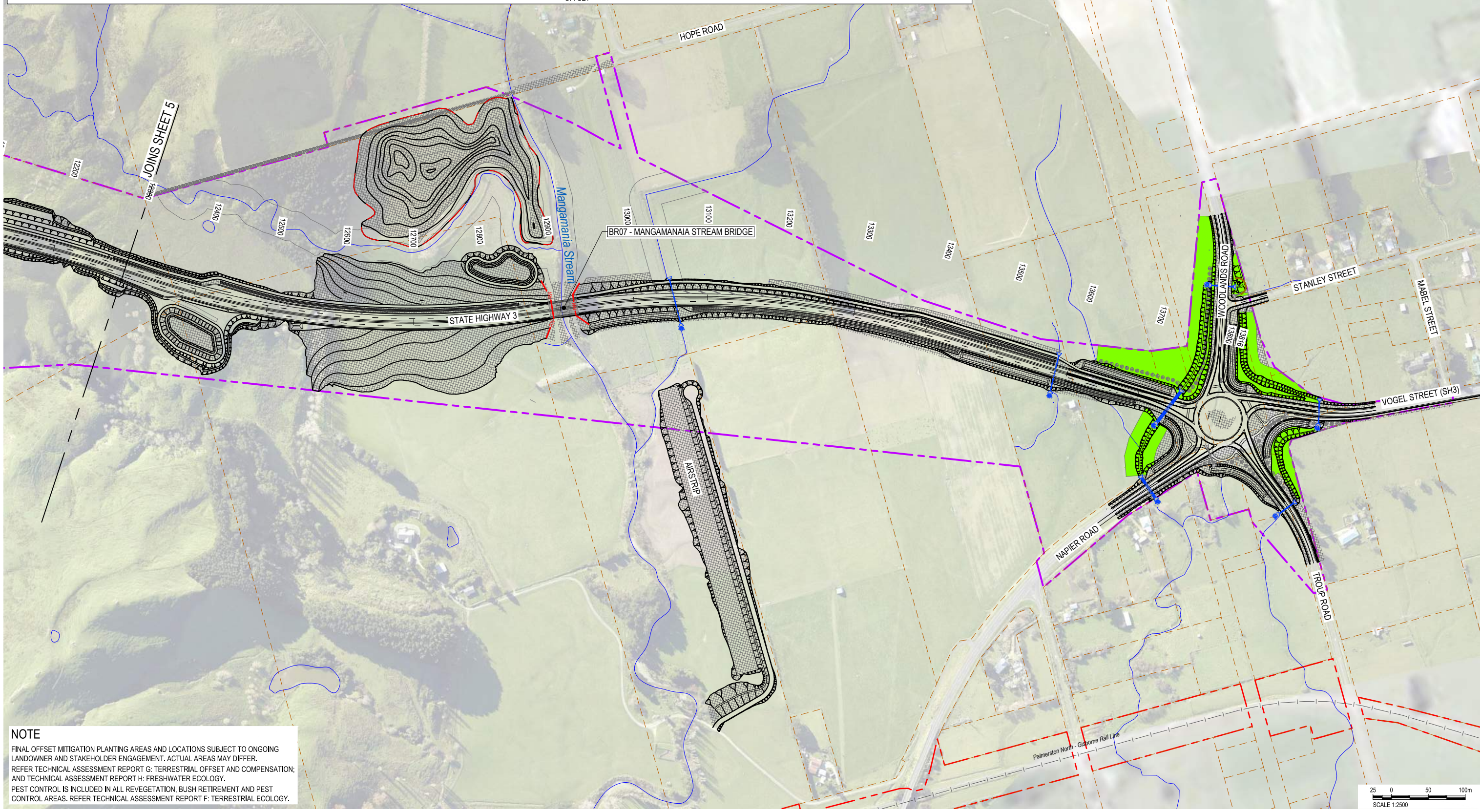
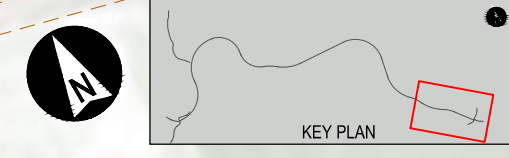
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										D. LAW				24/02/2020		SHEET 5	
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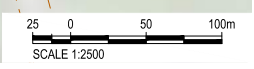


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- PROPOSED DESIGNATION BOUNDARY
- COUNCIL BOUNDARY
- KIWRIL DESIGNATION
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- EXISTING STREAMS
- SPOIL SITES
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- EXOTIC WETLANDS (LOW VALUE) COMPENSATION
- INDIGENOUS DOMINATED SEEPAGE WETLAND (MOD VALUE) COMPENSATION
- KĀNUKA FOREST OFFSET
- MĀNUKA AND KĀNUKA FOREST SHRUBLANDS OFFSET
- OLD GROWTH FOREST (ALLUVIAL) COMPENSATION
- OLD GROWTH FOREST (HILL COUNTRY) COMPENSATION
- OLD GROWTH TREELANDS OFFSET
- RAUPO DOMINATED SEEPAGE WETLAND (HIGH VALUE) COMPENSATION
- SECONDARY BROADLEAVED FOREST AND SCRUBLANDS OFFSET
- SECONDARY BROADLEAVED FOREST WITH OLD GROWTH SIGNATURES OFFSET



NOTE
 FINAL OFFSET MITIGATION PLANTING AREAS AND LOCATIONS SUBJECT TO ONGOING LANDOWNER AND STAKEHOLDER ENGAGEMENT. ACTUAL AREAS MAY DIFFER.
 REFER TECHNICAL ASSESSMENT REPORT G: TERRESTRIAL OFFSET AND COMPENSATION; AND TECHNICAL ASSESSMENT REPORT H: FRESHWATER ECOLOGY.
 PEST CONTROL IS INCLUDED IN ALL REVEGETATION, BUSH RETIREMENT AND PEST CONTROL AREAS. REFER TECHNICAL ASSESSMENT REPORT F: TERRESTRIAL ECOLOGY.



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										K. MISTRY				DATE		PROPOSED ECOLOGICAL OFFSET/COMPENSATION PLAN	
										D. LAW				24/02/2020		SHEET 6	
										REVIEWED				T. WATTERSON		DRAWING No.	
										J. MARKHAM				T. WATTERSON		PROJECT No.	
														3		PHASE	
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Te Ahu a Turanga
 Manawātū Tararua Highway

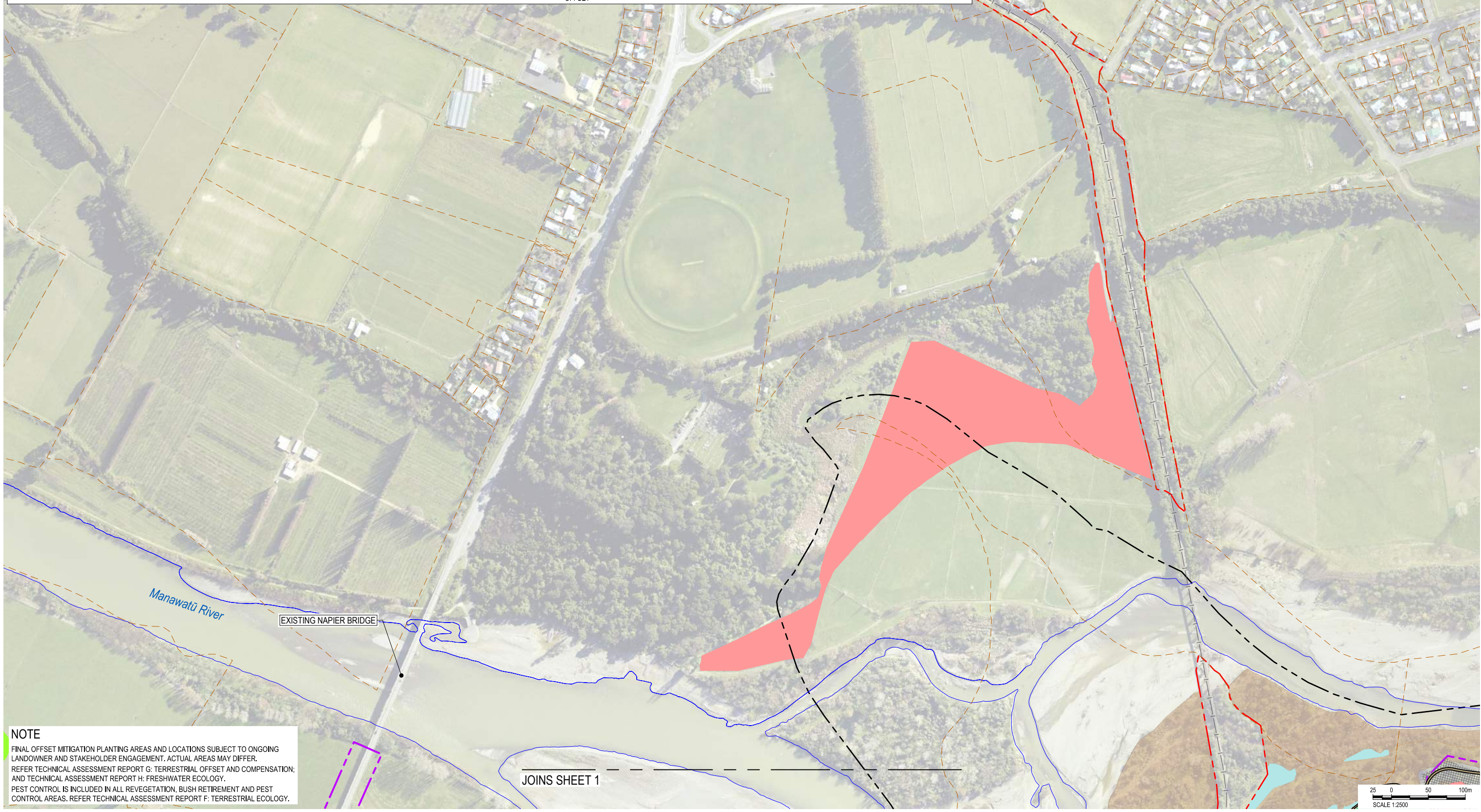
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- PROPOSED DESIGNATION BOUNDARY
- COUNCIL BOUNDARY
- KIWRAIL DESIGNATION
- EXISTING PROPERTY BOUNDARY
- EXISTING STREAMS
- SPOIL SITES
- STREAM DIVERSION

- STORMWATER CULVERT (PROPOSED)
- TAP03 WIND TURBINE
- BUSH RETIREMENT COMPENSATION
- PEST CONTROL COMPENSATION
- STREAM DIVERSION PLANTING
- STREAM DIVERSION PLANTING (TE ĀPITI WINDFARM)
- LANDSCAPE PLANTING

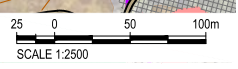
- REVEGETATION TYPES**
- ADVANCED SECONDARY BROADLEAF FOREST OFFSET
 - DIVARICATING SHRUBLANDS OFFSET
 - EXOTIC WETLANDS (LOW VALUE) COMPENSATION
 - INDIGENOUS DOMINATED SEEPAGE WETLAND (MOD VALUE) COMPENSATION
 - KĀNUKA FOREST OFFSET
 - MĀNUKA AND KĀNUKA FOREST SHRUBLANDS OFFSET

- OLD GROWTH FOREST (ALLUVIAL) COMPENSATION
- OLD GROWTH FOREST (HILL COUNTRY) COMPENSATION
- OLD GROWTH TREELANDS OFFSET
- RAUPO DOMINATED SEEPAGE WETLAND (HIGH VALUE) COMPENSATION
- SECONDARY BROADLEAVED FOREST AND SCRUBLANDS OFFSET
- SECONDARY BROADLEAVED FOREST WITH OLD GROWTH SIGNATURES OFFSET



NOTE
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JOINS SHEET 1



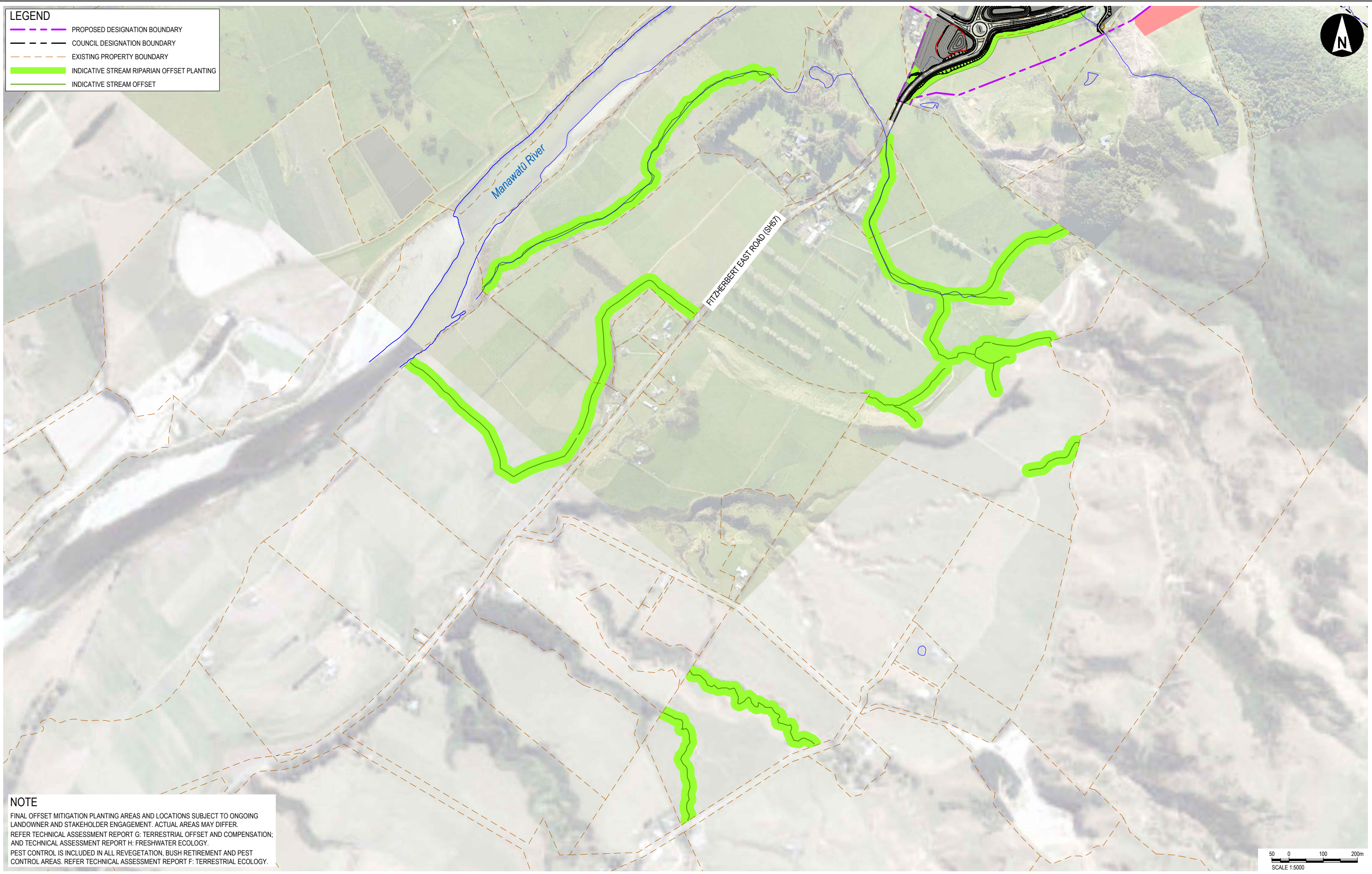
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							APPROVED	TITLE PROPOSED ECOLOGICAL OFFSET/COMPENSATION PLAN SHEET 7
							DATE 24/02/2020	
							T. WATTERSON	
							T. WATTERSON	
								DRAWING No. PROJECT No. PHASE TYPE DISC NUMBER REV
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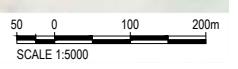


LEGEND

- PROPOSED DESIGNATION BOUNDARY
- COUNCIL DESIGNATION BOUNDARY
- EXISTING PROPERTY BOUNDARY
- INDICATIVE STREAM RIPARIAN OFFSET PLANTING
- INDICATIVE STREAM OFFSET



NOTE
 FINAL OFFSET MITIGATION PLANTING AREAS AND LOCATIONS SUBJECT TO ONGOING LANDOWNER AND STAKEHOLDER ENGAGEMENT. ACTUAL AREAS MAY DIFFER.
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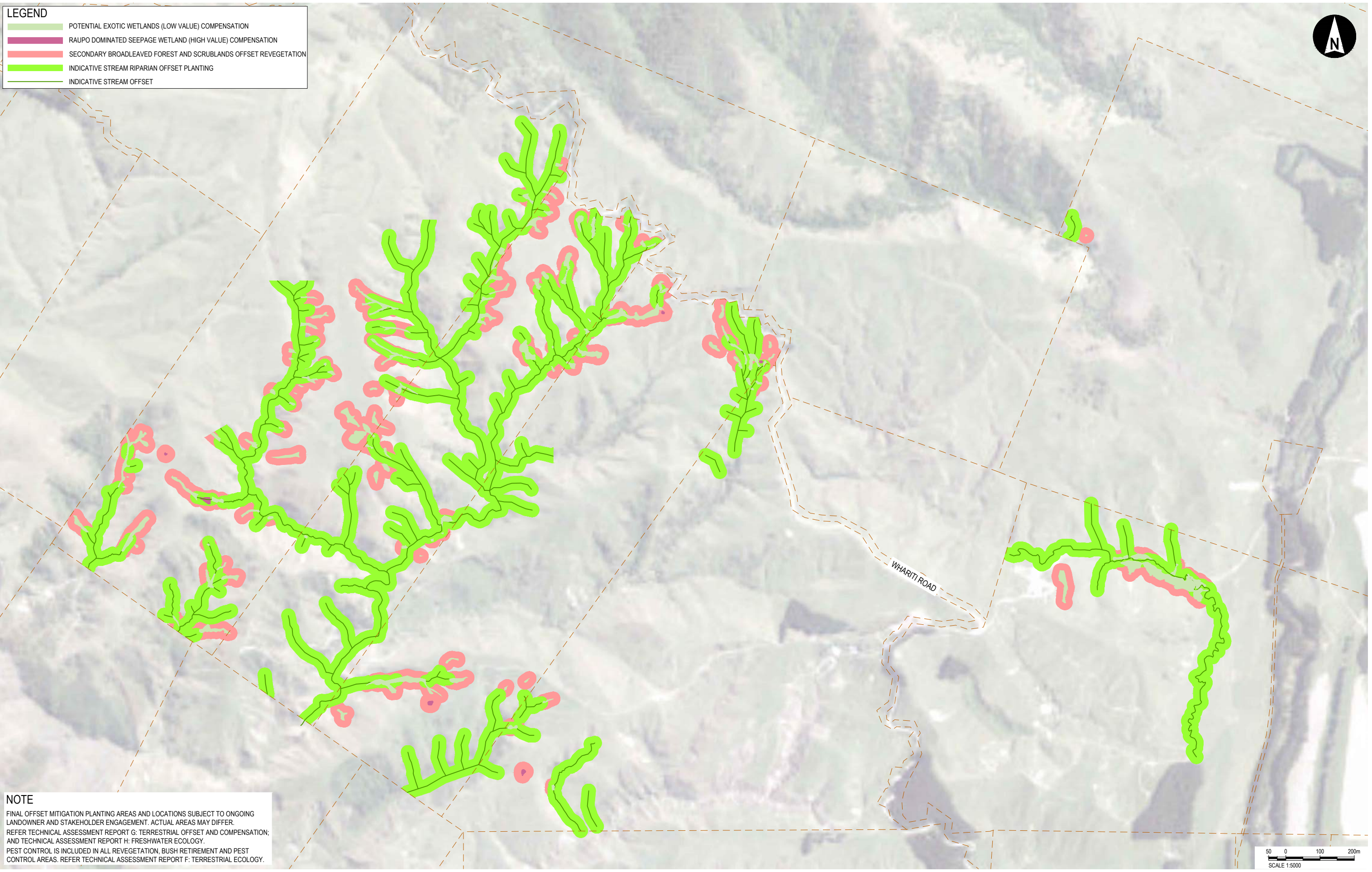


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						DRAWN		APPROVED	TITLE
Te Ahu a Turanga Manawatu Tararua Highway						K. MISTRY		T. WATTERSON	PROPOSED ECOLOGICAL OFFSET/COMPENSATION PLAN SITE 1: SPROULL FARM
						DESIGNED		DATE	
						D. LAW		24/02/2020	
						REVIEWED		T. WATTERSON	
						J. MARKHAM			
DRAWING No.	PROJECT No.	PHASE	TYPE	DISC	NUMBER	REV			
TAT		3	DG	E	4161	A			

LEGEND

- POTENTIAL EXOTIC WETLANDS (LOW VALUE) COMPENSATION
- RAUPO DOMINATED SEEPAGE WETLAND (HIGH VALUE) COMPENSATION
- SECONDARY BROADLEAVED FOREST AND SCRUBLANDS OFFSET REVEGETATION
- INDICATIVE STREAM RIPARIAN OFFSET PLANTING
- INDICATIVE STREAM OFFSET



NOTE
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					K. MISTRY		DATE	PROPOSED ECOLOGICAL OFFSET/COMPENSATION PLAN
					D. LAW		24/02/2020	SITE 2: RATAHIWI FARM
					REVIEWED		T. WATTERSON	DRAWING No.
					J. MARKHAM		T. WATTERSON	PROJECT No.
								PHASE
								3
								TYPE
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								E
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								4162
								REV
								A



Te Ahu a Turanga
 Manawatu Tararua Highway