



HERITAGE NEW ZEALAND  
POUHERE TAONGA

## Form A

### Application for a general archaeological authority *Including for an archaeological site where the effect will be no more than minor*

This form is for an application for a general authority, including for those cases where the effect on the archaeological site will be no more than minor. Complete this form if you wish to undertake an activity that may:

- modify or destroy an archaeological site. This applies to all archaeological sites, including those not yet identified **OR**
- have an effect on an archaeological site that's no more than minor and where the site is recorded in the national inventory of archaeological sites (see accompanying Guide A for further information).

#### Stage 1: Pre-application

We recommend that you talk with us prior to submitting this form to ensure a smooth process (see Guide A for contact details). We also suggest that during consultation with tangata whenua or Moriori (Chatham Islands) if required, tikanga maori protocols are established.

#### Stage 2: Filling out the form

Guide A has been created to help with the filling out of this form. A checklist can also be found at the back of this form, detailing all information to be provided.

- Download the form and save it to your computer before filling it out to avoid losing information from the form.
- Referring to other documents in place of providing an answer may cause delays in (or may even prevent) the processing of your application.
- As this is a legal document please make sure all sections have been signed. This will sometimes involve the applicant signing more than once.
- Electronic applications must be legible, and maps and plans provided in colour at a minimum of 400 dpi as appropriate. We prefer that applications are completed as searchable pdfs with digital signatures.

#### Stage 3: Submitting the form

We can receive your application either in electronic (preferred) or hard copy format. For hard copies, post your application to the relevant office. For electronic copies, if they're less than 10MB email them to the relevant office, and for files over 10MB a large file transfer server can be found on our website at [www.archaeology.nz](http://www.archaeology.nz). Contact details for all offices can be found in Guide A.

#### Stage 4: What happens next?

We'll let you know whether your application has been accepted within five working days from receipt at the relevant office.

#### Additional information

- Please direct any enquiries to the relevant office.
- There's **no fee** to process your authority application.
- Once a decision is made, a 15 working day appeal period begins (plus three working days to allow receipt by all parties if sent by post), during which work cannot start. We're legally unable to waive the appeal period.
- Note that if you're applying for an authority where the effect on the recorded archaeological site will be no more than minor, you don't need to fill in sections 3 and 4.
- This application is a legal document and is subject to the Official Information Act 1992.

## Form A

### Application for a general archaeological authority

*Including for an archaeological site where the effect will be no more than minor*

#### SECTION 1: APPLICATION DETAILS

##### 1.1. Applicant's contact details

The authority will be issued in this name:

Applicant:	<input type="text" value="Tauranga City Council"/>	
Attn	<input type="text" value="s 7(2)(f)(ii)"/>	
Address	<input type="text" value="Tauranga City Council&lt;br/&gt;Private Bag 12022&lt;br/&gt;Tauranga"/>	Daytime phone <input type="text" value="s 7(2)(f)(ii)"/>
		Mobile <input type="text" value="s 7(2)(f)(ii)"/>
		Postcode <input type="text" value="3143"/>
Email	<input type="text" value="s 7(2)(f)(ii)"/>	

Note: decisions will be emailed.

##### 1.2. Other contact details

First point of contact for communication during the application process:

Applicant:	<input type="radio"/>	Other (provide details below):	<input checked="" type="radio"/>
Name	<input type="text" value="Boffa Miskell"/>		
Address	<input type="text" value="PO Box 13373&lt;br/&gt;Tauranga"/>	Daytime phone	<input type="text" value="s 7(2)(a) - Privacy"/>
		Mobile	<input type="text" value="s 7(2)(a) - Privacy"/>
		Postcode	<input type="text" value="3141"/>
Email	<input type="text" value="s 7(2)(a) - Privacy"/>		

Note: decisions will be emailed.

##### 1.3. Location details

Address/location of the site to be affected	<input type="text" value="Southern end of Mauao&lt;br/&gt;1 Adams Avenue, Mount Maunganui"/>
Legal description (e.g. Lot, DP numbers). List here or provide as a separate document	<input type="text" value="Part of Lot 1 DP 429354 Mauao - Historic Purpose Reserve (refer to aerial photograph, Attachment 1)"/>
Local authority for land affected (e.g. Dunedin City Council)	<input type="text" value="Tauranga City Council"/>

#### 1.4. Details of archaeological site to be affected

Are there identified archaeological sites to be affected by the proposed activity?  Yes  No

*A New Zealand Archaeological Association site record form must be included where identified sites are involved.*

Provide details below

NZAA archaeological site number

Archaeological site name (if known)

Archaeological site type

U14/3654 (refer to Attachment 4)

Pit/Terrace

#### 1.5. Does the land lie within a

Statutory acknowledgement area?  Yes  No

Customary marine title?  Yes  No

If yes, please attach details.

#### 1.6. Have any authorities been granted for this location in the past?

Yes  No

If yes, please list authority numbers (feel free to contact the relevant office for help with this)

2004/166  
2001/266  
2005/161  
2006/69  
2006/269  
2009/224  
2012/486  
2017/944  
2017/945

#### 1.7. Description of proposed activity

Please provide a full description of the proposed activity, including a statement of what you are trying to achieve for your project. Attach final plans, drawings, engineering specifications and/or photographs that relate. Note that plans need to show the activity in relation to the location and extent (if known) of the archaeological site to be affected.

The proposal involves the construction, establishment and use of a new 360m long section of the Mauao base track, located downslope of the existing base track. The new track includes three distinct portions:

- A 60m long section of formed track located on a previously filled, terraced area.
- A 190m long rock revetment located on the beach adjacent to the toe of the slope, around Te Kawa Point. A section of the revetment will require placement of rock over a known archaeological terrace feature.
- A 110m long boardwalk traversing the slope, located partially along the alignment of the existing beach access track that forks off the base track. It is the boardwalk section that passes over known archaeological features.

The new section of track will reinstate universal access to the entirety of the base track, and will provide long-term resilience by minimising the impact of any future slope failure on Te Kawa Point.

The area within works will occur is shown on the plans in Attachment 2. A corridor approach is being taken to the track approval process, to provide flexibility in terms of allowing adjustments to the final layout of the track and revetment at the time of construction to respond to variations in the natural environment. The flexibility provided by the corridor is sought to avoid impacts on archaeology as far as possible (as well as avoid fauna habitat) during

**1.8. Heritage New Zealand encourages avoiding or protecting the archaeological site as a first option.**

State the ways in which you have explored options for avoiding or protecting the archaeological site. If avoidance is not possible, explain why this is the case and how the impacts will be offset. Include the archaeological site numbers of any sites to be avoided or protected.

A boardwalk structure has been proposed, as opposed to a formed track using earthworks, to avoid impacts on known archaeology as far as possible. A boardwalk requires only pile holes to be drilled at intervals of up to 8m, which means they will be able to be placed in locations that avoid archaeology within feature U14/3654 as far as possible.

In two sections excavations are needed to form a bench for the construction of the boardwalk (which will affect terrace features), and a section of the revetment will need to be located over top of a terrace feature, and construction will cut through the archaeological material. These excavations cannot be avoided due to TCC track building requirements to keep the boardwalk at a reasonably gentle grade to allow access for wheelchairs and buggys. The overall project objective regarding archaeology has been to avoid disturbance of archaeology as far as possible, whilst also balancing effects on cultural values, landscape, ecology and trees.

The site will be secured from public access to prevent unwarranted public access during the works period. The applicant will put a communications plan in place to ensure the public is aware of the works being undertaken, and

**1.9. Do any of the following relate to this area? If yes, provide details below**

- NZ Heritage List/Rarangi Korero entry (previously the NZ Historic Places Trust Register)
- Covenant or Heritage Order
- Scheduled on district plan
- Reserve status
- Other (*please state below*)

Mauao is a wahi tapu (item no. 9423) on the NZ Heritage List and is classified as a Historic Reserve.

**1.10. If you have engaged a person to undertake the archaeological work, fill in Form E included later in this form.**

**SECTION 2: CONSULTATION**

**2.1. Have you consulted with the following parties?**

- Tangata whenua or Moriori (Chatham Islands)  Yes  No
- Land owner  Yes  No
- Any other person likely to be affected  Yes  No  N/A

If you have selected no to any of these, provide an explanation below

**2.2. Consultation with tangata whenua or Moriori (Chatham Islands).**

Provide details of the consultation undertaken and views expressed for archaeological sites that are of interest to Maori or Moriori (Chatham Islands).

**Contact details**

Iwi/Hapu	The Mauao Trust, who represent Ngati Ranginui, Ngai Te Rangi, and Ngati Pukenga, and are the o		
Contact name	s 7(2)(f)(ii)		
Address		Daytime phone	
	s 7(2)(f)(ii)	Mobile	s 7(2)(f)(ii)
		Postcode	
Email			

Provide details of the consultation with tangata whenua or Moriori (Chatham Islands) and the views expressed. This information can be provided below, or attached as separate documents to this application.

The Mauao Trust have been involved/engaged with throughout the project inception and design phases, and as the landowner, are also the applicant for this authority.

Ngā Poutiriao o Mauao have been involved throughout the project, with a presentation given on the project to Ngā Poutiriao o Mauao in February, and have been updated in subsequent meetings. s 7(2)(f)(ii) (Ngā Poutiriao o Mauao representatives) subsequently acted as the project liaison personnel. Following the initial presentation in February a site visit was held, with all Ngā Poutiriao o Mauao representatives invited. Subsequent ongoing liaison has occurred between s 7(2)(f)(ii) Ngā Poutiriao o Mauao representatives) and s 7(2)(f)(ii) around the track design and management of impacts on cultural and ecological values.

The project team have engaged directly with the three Tauranga Moana Iwi of Te Rūnanga o Ngāti Ranginui, Te Rūnanga Ngāi Te Rangi and Ngāti Pūkenga ki Tauranga Trust as well as Te Kapu o Waitaha as the Iwi recognised in the Mauao Historic Reserve Vesting Act 2008. The engagement has taken the form of project updates, Iwi presentations, with the opportunity offered to meet and discuss the proposed base track realignment with the respective Iwi authorities individually. Te Rōpū Kaitiaki o Te Rūnanga o Ngāi Te Rangi hosted an individual meeting. Formal feedback from Ngāti Pūkenga ki Tauranga Trust, Te Kapu o Waitaha and Te Rūnanga o Ngāti

### 2.3. Consultation with land owner (if not the applicant)

#### Contact details

Contact name	(as per Section 2.2 above - Mauao Trust)		
Address	<input type="text"/>	Daytime phone	<input type="text"/>
		Mobile	<input type="text"/>
Email	<input type="text"/>	Postcode	<input type="text"/>

Provide details of the consultation undertaken and the views expressed. Also indicate the extent to which the protection of the archaeological site prevents or restricts the reasonable future use of the land affected. This information can be provided below, or attached as separate documents to this application.

### 2.4. Consultation with any other person likely to be affected (where relevant)

#### Contact details

Contact name	Department of Conservation - s 7(2)(f)(i)		
Address	Department of Conservation Tauranga Office 253 Chadwick Road East Tauranga	Daytime phone	s 7(2)(f)(ii)
		Mob	s 7(2)(f)(ii)
Email	s 7(2)(f)(ii)	Postcode	3142

Provide details of the consultation undertaken and the views expressed. This information can be provided below or attached as separate documents to this application.

Heritage New Zealand (HNZ) has met on-site with the project team and have been engaged with throughout the design process. An earlier design for the section of track above the boulder field, which involved formation of a track by way of a cut and fill operation, was abandoned in favour of the boardwalk following advice from HNZ. They were concerned about the extent of impact of the earthworks on archaeology present on the hillside, therefore the boardwalk option was progressed owing to the much-reduced subsurface disturbance. HNZ have also indicated that they would prefer to not have conditions imposed on the resource consent in relation to archaeology; instead all impacts on archaeology will be managed through the archaeological authority required from HNZ.

The Department of Conservation (DoC) were provided with an earlier draft of the track design plan, and were hosted at a meeting at TCC to discuss ecological effects management. DoC have given advice and input to the project ecologists regarding primarily fauna management, which has been included as part of the recommendations in the Ecological Assessment.

**IF THIS IS AN APPLICATION FOR AN ACTIVITY WHICH WILL HAVE NO MORE THAN A MINOR EFFECT ON A RECORDED ARCHAEOLOGICAL SITE, SKIP THE NEXT TWO SECTIONS AND COMPLETE THE REST OF THE FORM FROM SECTION 5.**

### SECTION 3: ACCOMPANYING INFORMATION

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**3.1. Are there any historic heritage values (other than archaeological) affected by the proposed activity? (See Guide A for examples of other values to consider.)**

Yes  No

If yes, your archaeological assessment report must include a discussion of the effect on these values (see B.8)

- 3.2. An archaeological assessment report must accompany this application. This assessment should be appropriate to the scale and significance of the proposed activity and the proposed modification or destruction of the archaeological site affected and can include information prepared for an associated resource consent.**
- 3.3. A research strategy must accompany this application if the archaeological assessment report recommends an investigation (s52(2) of the Heritage New Zealand Pouhere Taonga Act 2014).**
- 3.4. A site instruction or management plan may need to accompany this application if the proposed activity is complex and/or involves several different parties to carry out the work and/or covers a large area and/or is for the demolition of a pre-1900 building.**

### SECTION 4: MAORI OR MORIORI (CHATHAM ISLANDS) VALUES

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If archaeological sites of relevance to Maori or Moriori (Chatham Islands) are to be affected by the proposed activity, an assessment of the Maori or Moriori (Chatham Islands) values of the archaeological site and the effect of the proposed activity on those values must be provided. This may take the form of a Maori or Moriori (Chatham Islands) values statement or assessment provided by Maori or Moriori (Chatham Islands). This assessment should be appropriate to the scale and significance of the proposed activity and the proposed modification or destruction of the archaeological site affected and can include information prepared for an associated resource consent if it addresses Maori or Moriori (Chatham Islands) cultural values.

This information can be provided below, or attached as separate documents to the application form.

Refer to Cultural Values Report - Attachment 5.

**SECTION 5: CONSENT OF LAND OWNER**

Obtaining consent of all land owners is a legal requirement. All consents must be obtained prior to the commencement of any activity covered by this application.

I (please print name) s 7(2)(a) - Privacy acknowledge:

- 1) that I have read and understood the description of proposed activity included in this application and I acknowledge and accept any implications the activity may have on me and my land
- 2) that I have been consulted regarding the proposed activity and give my consent to the activity being carried out
- 3) that I have read and understood the information on legal responsibilities concerning archaeological material provided in Guide A.

Signature of land owner  
(or authorised agent)

s 7(2)(a) - Privacy

Date 14 September 2018

**SECTION 6: APPLICANT'S DECLARATION**

I (please print name) s 7(2)(f)(ii) *for Tawanga City Council* acknowledge:

- 1) that all the information provided with this application is true and correct to the best of my knowledge
- 2) that I have read and understood the description of proposed activity included in this application and I will inform Heritage New Zealand Pouhere Taonga about any changes to the proposed activity while the application is being considered
- 3) I accept responsibility for compliance with all the conditions of the authority resulting from this application and any monetary cost this will entail, including the cost of any analysis of the archaeological material recovered and the preparation of the report.

Please tick this box if the archaeological work associated with the proposed activity is likely to exceed \$100,000.

Signature  
of applicant:

s 7(2)(f)(ii)

Date: 14/09/18

# Form E

## Application for approval (or change) of a person to undertake an activity under the authority

### SECTION 1: DETAILS OF NOMINATED PERSON

Name

Email  Daytime phone

Mobile

Authority number (if authority granted)

Note: decisions will be emailed.

### SECTION 2: DECLARATION OF NOMINATED PERSON

I (please print name)  acknowledge:

- 1) that I agree to conform to accepted archaeological practice in undertaking the archaeological work required by the conditions of any authority granted as a result of this application
- 2) that I meet the criteria required to be an approved person to undertake an activity under the authority under section 45(2)(a) of the Heritage New Zealand Pouhere Taonga Act 2014
- 3) and, for a site of interest to Maori or Moriori (Chatham Islands):
  - a. that I can provide evidence of my skill and competency in relation to recognising and respecting Maori or Moriori (Chatham Islands) values; and
  - b. that I can provide evidence of cultural support from Maori or Moriori (Chatham Islands) for the work that will be undertaken for this authority.

Signature of  nominated person

Date

### SECTION 3: APPLICANT'S DECLARATION

I (please print name)  Porirua City Council acknowledge:

- 1) that all the information provided with this application is true to the best of my knowledge
- 2) that I have ensured all information relevant to the proposed activity has been made available to the nominated person.

Signature of  applicant

Date

## CHECKLIST

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Your application cannot be considered until each section is completed and the application is signed and dated.

Your authority application should include:

- all information requested for each section
- application details: location plan (**Section 1.3**), NZAA site record form if required (**Section 1.4**), details of statutory acknowledgement area or customary marine title (**Section 1.5**) and final plans, drawings etc. (**Section 1.7**)
- names and contact information, and details of consultation undertaken for: tangata whenua or Moriori (Chatham Islands) if required (**Section 2.2**), land owner (**section 2.3**), and any other person likely to be affected if relevant (**section 2.4**)
- Form E completed and signed
- signatures provided for Sections 5, 6 and if required, Form E.

If you have completed sections 3 and 4 you also need to include:

- archaeological assessment report (**Section 3.2**)
- if required, a research strategy (**Section 3.3**)
- if required, a site instruction or management plan (**Section 3.4**)
- if required, an assessment of Maori (or Moriori) values (**Section 4**).

## **Attachment 1 – Aerial Photograph**

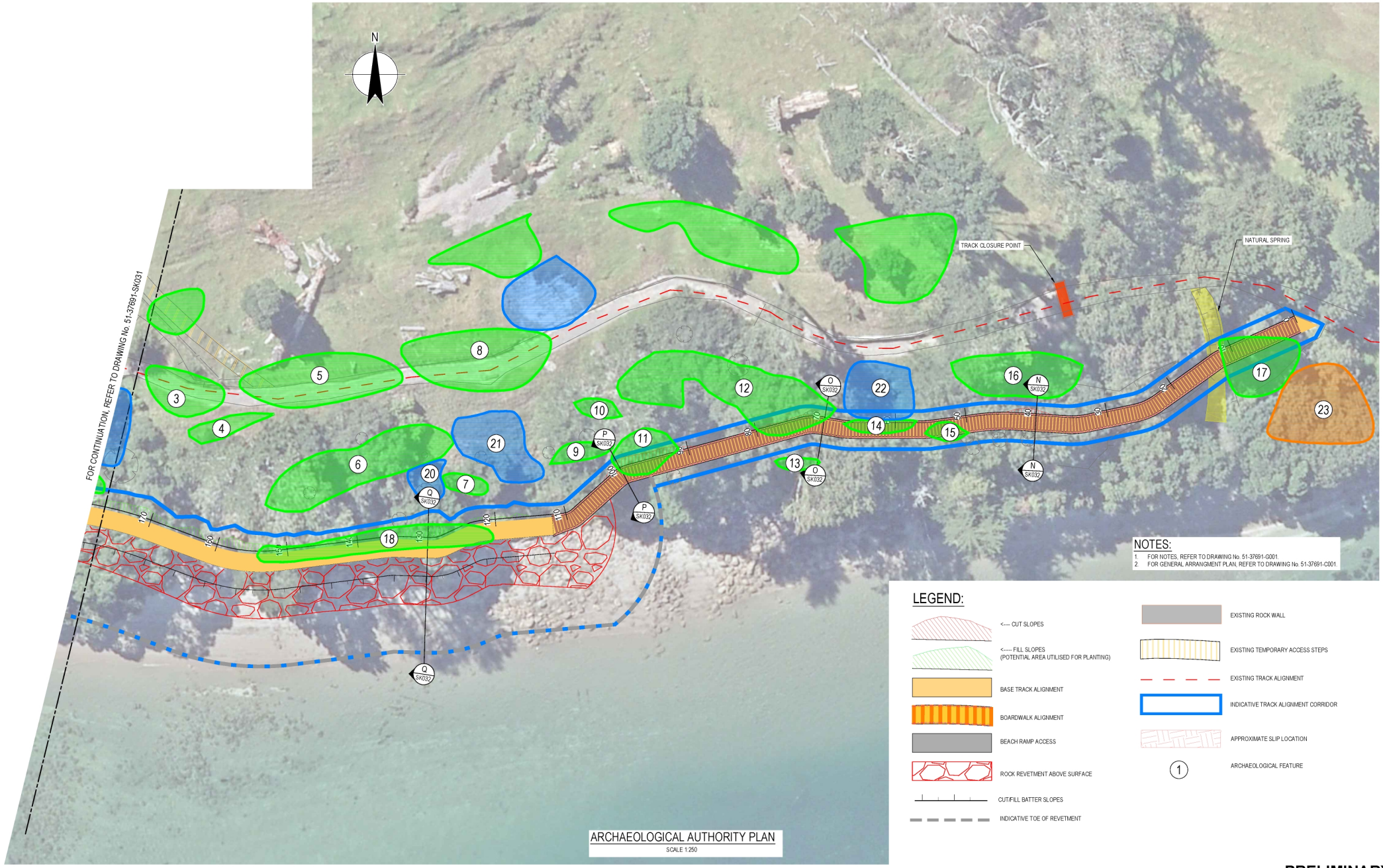


**Aerial photograph of Mauao property boundaries, showing general area of proposed works subject to the authority application. Base track indicated in green and summit tracks indicated in orange (source: TCC Mapi GIS). N.B. detailed extent of area subject to authority application shown in plans included as Attachment 2.**

## **Attachment 2 – Plans of Works Area**



FOR CONTINUATION, REFER TO DRAWING No. 51-37691-SK031



**NOTES:**  
 1. FOR NOTES, REFER TO DRAWING No. 51-37691-C001  
 2. FOR GENERAL ARRANGEMENT PLAN, REFER TO DRAWING No. 51-37691-C001

**LEGEND:**

	<--- CUT SLOPES		EXISTING ROCK WALL
	<--- FILL SLOPES (POTENTIAL AREA UTILISED FOR PLANTING)		EXISTING TEMPORARY ACCESS STEPS
	BASE TRACK ALIGNMENT		EXISTING TRACK ALIGNMENT
	BOARDWALK ALIGNMENT		INDICATIVE TRACK ALIGNMENT CORRIDOR
	BEACH RAMP ACCESS		APPROXIMATE SLIP LOCATION
	ROCK REVETMENT ABOVE SURFACE		ARCHAEOLOGICAL FEATURE
	CUT/FILL BATTER SLOPES		
	INDICATIVE TOE OF REVETMENT		

ARCHAEOLOGICAL AUTHORITY PLAN  
 SCALE 1:250

**PRELIMINARY**

No.	Revision	Note	Drawn	Job Manager	Project Director	Date
A		ISSUED FOR INFORMATION				10/10/18



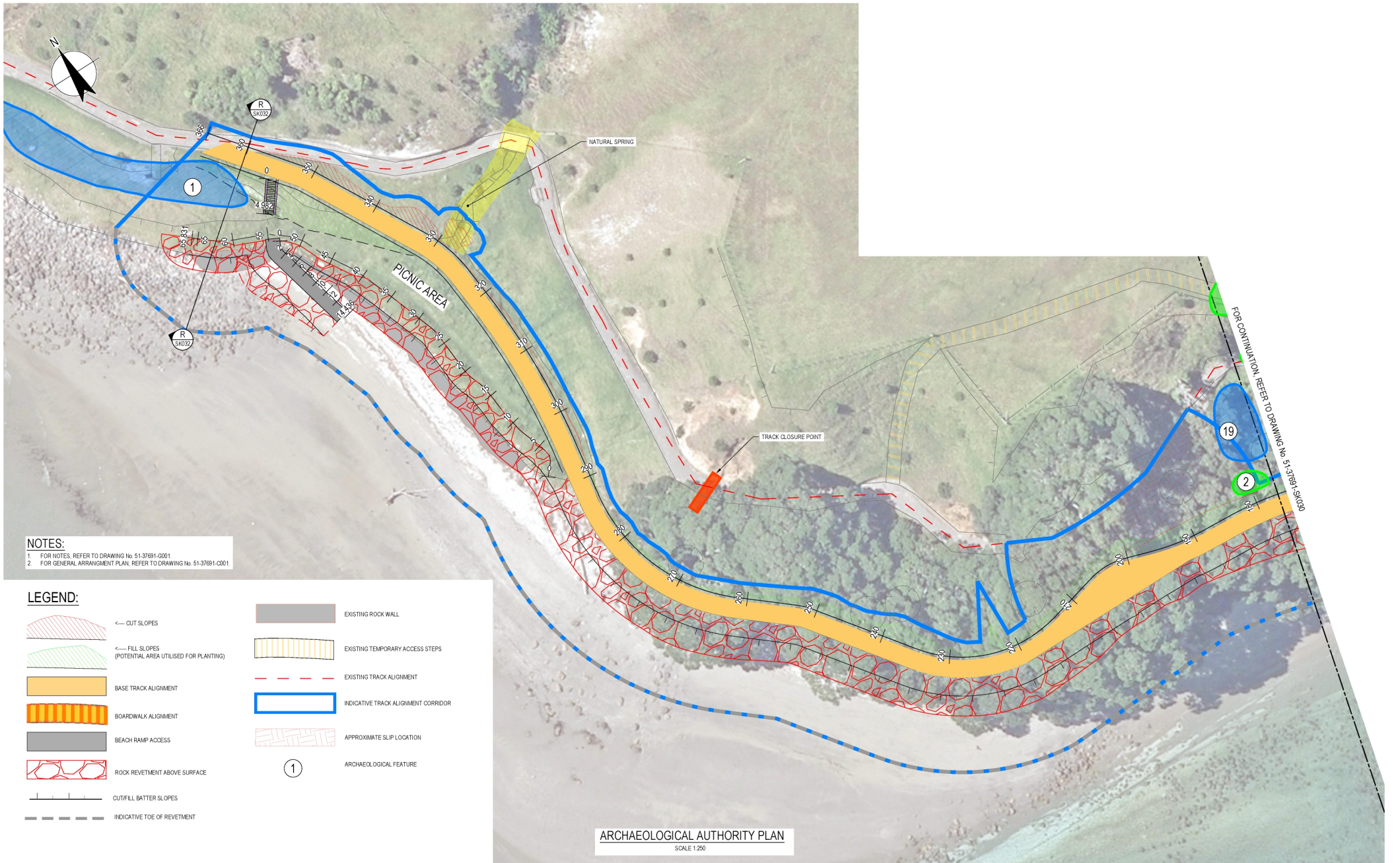
**GHD**  
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 E a.kimball@ghd.com W www.ghd.com

**DRAFT**  
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Drawn	s 7(2)(f)(ii)	Designer	s 7(2)(f)(ii)
Drafting Check		Design Check	
Approved (Project Director)		Date	10.10.18
Scale	1:250	This Drawing must not be used for Construction unless signed as Approved	

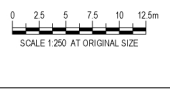
Client Project Title	<b>TAURANGA CITY COUNCIL MAUAO BASE TRACK ARCHAEOLOGICAL AUTHORITY PLAN SHEET 1 OF 2</b>
Original Size	<b>A1</b>
Drawing No:	<b>51-37691-SK030</b>
Rev:	<b>A</b>



ARCHAEOLOGICAL AUTHORITY PLAN  
SCALE 1:250

PRELIMINARY

ISSUED FOR INFORMATION		s 7(2)(a) - Privacy		10/10/18	
No	Revision	Note	* indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager
				Project Director	Date



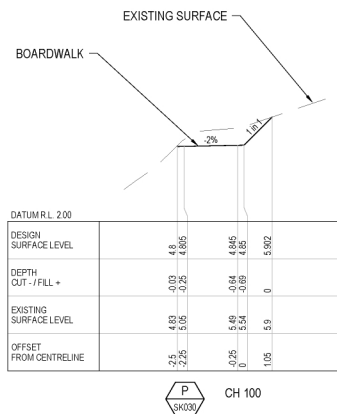
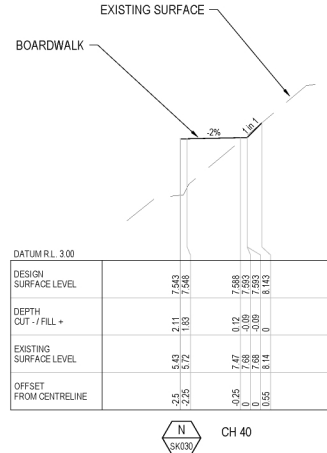
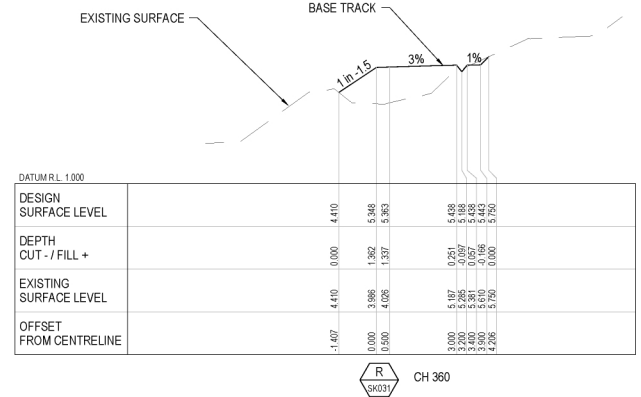
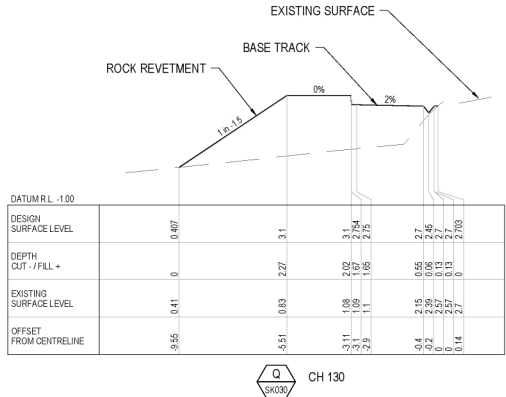
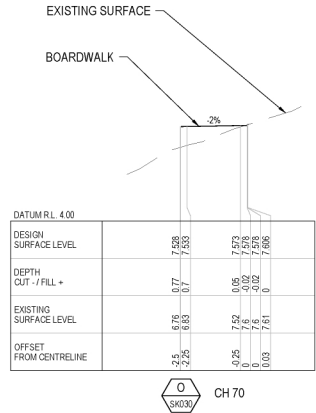
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11/10/2018

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Drawn	s 7(2)(f)(iii)	Designer	s 7(2)(f)(iii)
Drafting Check		Design Check	
Approved (Project Director)	s 7(2)(f)(iii)	Date	10.10.18
Scale	1:250	This Drawing must not be used for Construction unless signed as Approved	

Client	TAURANGA CITY COUNCIL
Project	MAUAO BASE TRACK
Title	ARCHAEOLOGICAL AUTHORITY PLAN
	SHEET 2 OF 2
Original Size	A1
Drawing No:	51-37691-SK031
Rev:	A



**PRELIMINARY**

No	Revision	Note	Date
A	ISSUED FOR INFORMATION		10/10/18



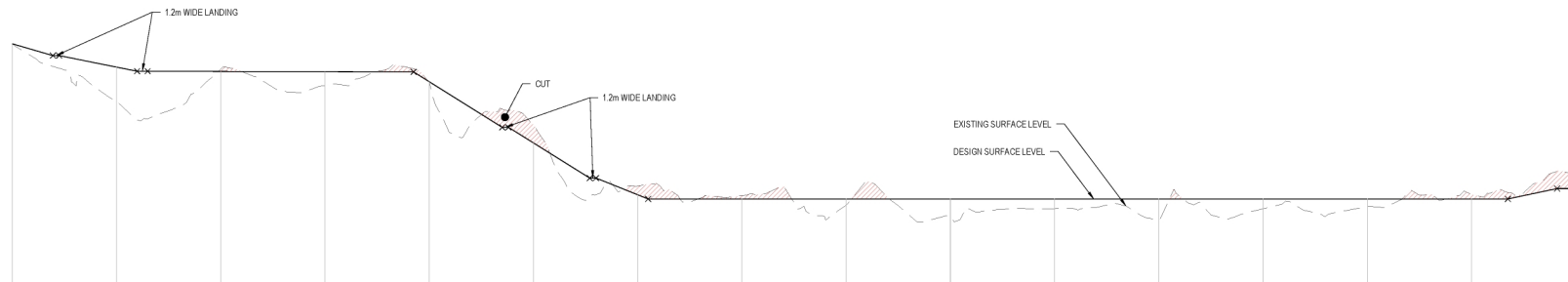
**DRAFT FOR DISCUSSION**  
05/10/2018



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Drafting Check		Design Check	
Approved	R. ORR (Project Director)	Date	10.10.18
Scale	1:100	This Drawing must not be used for Construction unless signed as Approved	

Client	Tauranga City Council
Project	MAUAO BASE TRACK
Title	ARCHAEOLOGICAL AUTHORITY CROSS SECTIONS
Original Size	A1
Drawing No:	51-37691-SK032
Rev:	A



DATUM RL -1.50																															
VERTICAL ALIGNMENT	L=7.8m G=-5.82%	L=14.97m G=-4.01%	L=2.0m G=0%	L=51.01m G=0.06%				L=17m G=12.5%	L=4m G=0%	L=15.6m G=12.5%	L=2m G=0%	L=10m G=8%	L=164.94m G=0%								L=6.46m G=4.23%	L=19.47m G=0%									
HORIZONTAL ALIGNMENT	L=11.64m R=7m	L=10.03m R=7.4m	L=8.54m R=10m	L=5.99m R=30m	L=6.6m R=15m	L=10.08m R=12m	L=6.7m R=7m	L=25.33m	L=2.24m R=5m	L=7.85m R=4m	L=11.18m R=2m	L=3.4m R=10m	L=4.6m R=3m	L=15.24m	L=9.58m R=20m	L=8.56m	L=14.90m R=50m	L=4.36m R=30m	L=7.41m R=10m	L=1.18m R=10m	L=6.55m R=10m	L=7.66m	L=21.21m R=16m	L=15.75m R=10m	L=2.3m R=10m	L=8.51m R=100m	L=25.7m R=25m	L=8.19m R=100m	L=24.56m R=100m		
LEVEL DIFFERENCE CUT - / FILL +	0.00	1.30	-0.09	0.03		0.03		0.03	-0.09	-0.33	-0.12	0.24	-0.07	0.97	0.97	0.81	0.97	0.97	0.29	-0.17	0.54										
DESIGN SURFACE LEVEL	8.654	7.759	7.560	7.583		7.2		4.86	2.86	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.1	
EXISTING SURFACE LEVEL	8.65	6.45	7.68	7.08		7.17		5.54	3.19	2.82	2.46	2.03	2.33	1.68	2.33	2.41	2.67	3.64													
CHAINAGE	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300															

LONGITUDINAL SECTION - TRACK  
 HORZ 1:500 VERT 1:100



PRELIMINARY

No	Revision	Note	Drawn	Job Manager	Project Director	Date
A	ISSUED FOR INFORMATION					11/10/18



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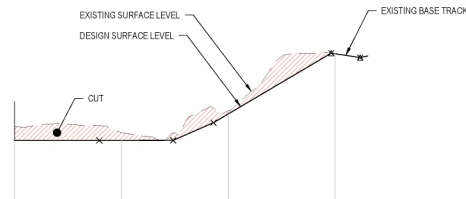
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 Designer: s 7(2)(f)(a)  
 Drafting Check  
 Design Check  
 Approved (Project Director)  
 Date: 11.10.18  
 Scale: AS SHOWN

Client: **TAURANGA CITY COUNCIL**  
 Project: **MAUAO BASE TRACK**  
 Title: **ARCHAEOLOGICAL AUTHORITY LONGITUDINAL SECTION SHEET 1 OF 2**

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Original Size: **A1**  
 Drawing No: **51-37691-SK033**  
 Rev: **A**



DATUM RL 0.00					
VERTICAL ALIGNMENT	L=19.47m G=0%	L=13.83m G=0.02%	L=7.52m G=8.81%	L=22.07m G=11.75%	L=5.41m G=-3.0%
HORIZONTAL ALIGNMENT	L=24.56m R=100m	L=4.08m R=20m	L=8.07m R=20m	L=18.26m R=18m	L=14.06m
LEVEL DIFFERENCE CUT - / FILL +	-0.54	-0.30	-0.12		0.00
DESIGN SURFACE LEVEL	3.1	3.101	4.692		6.346
EXISTING SURFACE LEVEL	3.64	3.40	4.21		6.35
CHAINAGE	300	320	340		360

LONGITUDINAL SECTION - TRACK

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PRELIMINARY

No	Revision	Note	Drawn	Job Manager	Project Director	Date
A	ISSUED FOR INFORMATION					11/10/18



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Drafting Check		Design Check	
Approved (Project Director)	s 7(2)(f)(ii)		
Date	11.10.18		
Scale	AS SHOWN		

Client	TAURANGA CITY COUNCIL
Project	MAUAO BASE TRACK
Title	ARCHAEOLOGICAL AUTHORITY LONGITUDINAL SECTION SHEET 2 OF 2
Original Size	A1
Drawing No:	51-37691-SK034
Rev:	A

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**Attachment 3 – Archaeological Assessment, Management  
Plan and Research Strategy**



**InSitu** Heritage Ltd

**Archaeological Assessment of the  
Mauao Base Track Alignment Corridor,  
Mauao Historic Reserve, Tauranga**

**October 2018**

Prepared for: Tauranga City Council  
Private Bag 12022  
TAURANGA

Prepared by: InSitu Heritage Ltd.  
PO Box 710  
WHAKATANE 3158

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## 1. Introduction

Tauranga City Council are proposing to re-align a section of the Mauao Base Track, within the Mauao Historic Reserve, as a large landslide has destroyed a section of the existing track alignment. The track cannot be re-established on the existing alignment due to on-going land stability issues. In keeping with objective 5.3.3(i) of the Mauao Historic Reserve Management Plan, the base track must provide universal access for reserve users<sup>1</sup>. Mauao Historic Reserve has a long and rich history of human occupation and use, and the proposed work will affect archaeological values.

Mauao is a historic reserve gazetted under the Reserves Act 1977 and is also identified as a wahi tapu on the Heritage New Zealand List (item no. 9423), under the Heritage New Zealand Pouhere Taonga Act 2014.

There are four known pa complexes within the reserve represented by approximately 800-1,000 visible surface archaeological features including pits, terraces, platforms, house floors, shell middens and shell mounds. The archaeological sites are recorded in the NZ Archaeological Association Site Recording Scheme (NZAA SRS) (Figure 1)<sup>2</sup>. Visible archaeological features will be affected by the proposed project works, and these features have recently been recorded as NZAA Archaeological Site record no. U14/3654. In addition, there is a high probability that buried archaeological features will be exposed during any ground disturbance required for construction of the new track alignment and remediation of the sections of the existing track that will be closed following construction of the new alignment.

An archaeological survey of Mauao Historic Reserve was completed by Ken Phillips in 2003<sup>3</sup>. This current archaeological assessment should be considered in conjunction with the earlier archaeological survey report. The 2003 survey report contains detailed information relating to the historic and archaeological landscape context of

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<sup>1</sup> Mauao Historic Reserve Management Plan. 2017, Tauranga City Council and the Mauao Trust.

<sup>2</sup> The NZAA Site Recording Scheme is the national inventory of archaeological sites in New Zealand, which currently contains over 69,000 records. The online version is known as ArchSite ([www.archsite.org.nz](http://www.archsite.org.nz)). The Site Recording Scheme was established in 1958 to encourage the recording of information about archaeological sites and is endorsed by the Heritage New Zealand Pouhere Taonga and the Department of Conservation as the official national inventory for archaeological sites.

<sup>3</sup> Phillips K J S 2003. Preliminary Archaeological Survey and Identification of Threats to Archaeological Resources Mauao Historic Reserve. Unpublished report prepared for Tauranga District Council.

the reserve, and that information is not repeated within this current archaeological assessment.

This report provides an archaeological assessment and considers the probable effects of the proposed project works on archaeological values. This report is concerned with physical evidence of past human activity and is not an assessment of cultural values. Advice from tangata whenua is being sought separately about Maori cultural values.

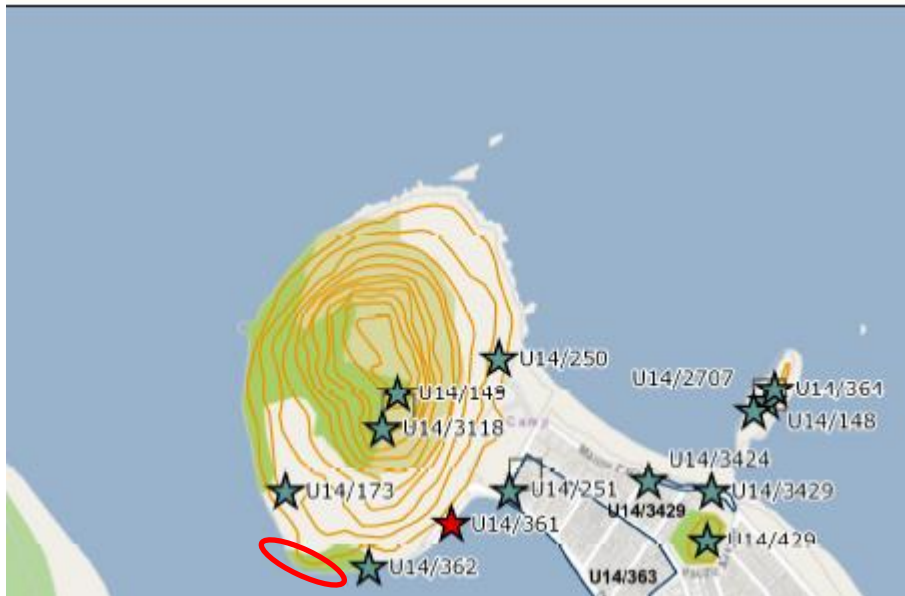


Figure 1: Location of Mauao Historic Reserve indicating project location (circled red) and recorded archaeological sites (stars). The project area includes recently recorded archaeological site U14/3654. (Source: ArchSite [www.archsite.org.nz](http://www.archsite.org.nz)).

## 2. Statutory requirements

Heritage New Zealand administers the *Heritage New Zealand Pouhere Taonga Act 2014*. The Act makes it unlawful for any person to modify or destroy, or cause to be modified or destroyed, the whole or any part of an archaeological site without the prior authority of Heritage New Zealand. Any work that may affect an archaeological site requires an authority from Heritage New Zealand before commencement.

This process applies regardless of whether the land on which the site is located is designated, or the activity is permitted under the District or Regional Plan or a resource or building consent has been granted. The Act provides for substantial penalties for unauthorised destruction or modification.

An archaeological site is defined in the *Heritage New Zealand Pouhere Taonga Act 2014* as any place in New Zealand (including buildings, structures or shipwrecks) that was associated with pre-1900 human activity, where there is evidence relating to the history of New Zealand that can be investigated using archaeological methods.

The archaeological authority process applies to all sites that fit the legal definition, regardless of whether:

- The site is recorded in the NZ Archaeological Association Site Recording Scheme or recorded on the New Zealand Heritage List
- The site is not recorded and only becomes obvious because of ground disturbance
- The activity is permitted under a district or regional plan, or a resource or building consent has been granted.

### 3. Project Proposal<sup>4</sup>

The proposal involves the construction, establishment and use of a new 360m long section of base track, located downslope of the existing base track. Approximately 280 metres of the existing base track will be closed and the area remediated following the opening of the new section of track.

#### New track section construction

The new track includes three distinct portions:

- A 60m long section of formed track located on the beach terrace;
- A 190m long rock revetment located on the beach adjacent to the toe of the slope, around Te Kawa Point;
- A 110m long boardwalk traversing the slope above the boulder field, located partially along the alignment of the existing beach access track that forks off the base track.

At its northern end, the new track will tie into the existing base track. The track will be approximately 60m long and 2.5m wide, following the curve of the slope on the eastern edge of the beach terrace area. This beach terrace was constructed in 2004 from land slip debris.

The track surface will be a bound aggregate, similar to that of the existing base track. A stabilising agent, such as cement, may be used to aid in binding the surface.

To achieve the required minimum level of 2.1m above MHWS, and to ensure a gentle grade down from the existing base track, the track will be built up above the existing ground level of the terrace. A maximum 2m of fill depth is required near the northern end of the track, due to the steep nature of the slope down from the existing base track. The fill depth reduces to approximately 0.2m at the southern end of the terrace, as the track level grades down.

The existing rock revetment in front of the beach terrace is to be upgraded with additional rock armouring to provide additional protection of the terrace area. Its height will be increased to match the level of the proposed revetment, and the eroded segments of the terrace in behind the revetment will be repaired. A geotextile matting (or similar) will provide erosion protection of the grassed area in behind the revetment.

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<sup>4</sup> Unless otherwise stated, information in this section is derived from the 'Mauao Project Description' provided to InSitu Heritage Ltd by Boffa Miskell Ltd on 27<sup>th</sup> June 2018.

To provide universal access down onto the beach area in front of the terrace, a concrete ramp sloping down from the new section of track is proposed. The ramp will protrude through the existing revetment.

At its western end, the new 190m long revetment will abut the existing revetment in front of the beach terrace and will tie the formed track on the terrace in with that on top of the new revetment. The track will be approximately 2.5m wide, following the curve of the slope to around Te Kawa Point. The track surface will be a bound aggregate, similar to that of the existing base track. A stabilising agent, such as cement, may be used to aid in binding the surface.

At its eastern extent, the revetment will be located over a portion of the western end of the boulder field, before it ties in with the boardwalk. Where appropriate, boulders from this affected section of the boulder field will be used as the outer armouring on the revetment. Before commencing any excavation for the revetment foundation topsoil on the edge of the shoreline will be stripped and stockpiled for reuse on-site. Any existing boulders under the revetment footprint will be moved to a suitable location.

A 110m long boardwalk is proposed to link the existing base track at the eastern end, through to the rock revetment at the western end. The boardwalk will be approximately 2m wide and will follow the topography of the slope as it meanders down from the existing base track to link with the revetment. The first 30m of the boardwalk, at the eastern end, will follow the existing narrow beach access track that forks off from the base track.

The material used to construct the boardwalk will either be composite fibre or timber. A determination is yet to be made on the material, although the preference is to use a composite fibre for several reasons including:

- Composite fibre has a longer design life than timber;
- Archaeological and environmental impacts are reduced long-term, as maintenance and rebuild requirements are reduced;
- Composite fibre does not result in any leaching of treatment chemicals unlike treated timber.

The implementation of a boardwalk section means that earthworks are minimised, and no retaining structures are necessary. This is intended to minimise impacts on the archaeological features present on the subject slope, as well as reducing impacts on the existing vegetation on the slope. Two mature exotic trees will need to be removed to provide for the boardwalk alignment – one English Oak and one *Macrocarpa*.

The height of the boardwalk above existing ground level varies due to the variability of the underlying slope topography. At its highest point, the outer edge of the boardwalk will be approximately 2.9m above ground level.

Two discrete sections of the boardwalk will require excavation work to allow for its installation, and to achieve the necessary track grade. The maximum cut depth is approximately 0.9m, undertaken along a length of approximately 15m.

The boardwalk will be built upon screw pile foundations of approximately 400mm diameter. The indicative maximum spans that can be achieved between piles are 8m for composite fibre and 4.8m for timber. This allows flexibility to install the piles in locations where archaeological features can potentially be avoided.

Some slope stabilisation work is required to be carried out on existing slope failure surfaces. This work will be required to be completed prior to any other work being carried out below the slope failure areas to ensure the safety of any operatives working in the areas below. Stabilisation work is likely to consist of soil nailing and the installation of netting/geotextiles or similar. The work will be carried out using rope access from above the slope by trained operatives.

### **Construction machinery access**

Approximately 190m of rock revetment with an aggregate pathway is to be constructed along the edge of the existing shoreline. Access to site for the delivery of all plant and materials to the revetment site will typically be via marine barge to the existing beach area.

Construction materials will be stockpiled as close to the work front as possible by a barge mounted digger or other suitable plant. Construction plant can be landed on the beach by barge. Three separate material stockpiles will be required on site for backfill, under layer rock and rock armour.

It is anticipated that the revetment will be constructed in approximately 10-20m sections each shift with armour being placed over the length of each section to minimise any potential erosion or undermining of the new revetment structure.

Rock armour will be placed on to the revetment by a 20T long reach digger, which may be land-based or barge-mounted.

An elevated boardwalk of approximately 110m in length will be constructed to link the existing base track and the new revetment. The boardwalk section traverses the existing slope which contains archaeological features. Therefore, the disturbance to the existing site is to be minimised.

The boardwalk will be built on screw pile foundations which will be installed by light tracked piling plant. Some protection works such as the installation of swamp mats etc to establish access for the piling plant may be required in advance of piling work.

Access for piling may be from either end of the boardwalk section with plant being delivered to site by barge or tracked in to site from the existing 4-wheel drive access track.

Construction of the boardwalk structure will typically be by hand with as much fabrication work carried out off site as much as possible.

### **Existing track section remediation**

An approximate 280m length of the existing base track is to be closed following the establishment of the new track section. This includes the removal of the temporary diversion around the top of the slip area.

At the eastern end of the new track, the existing base track will be closed in close proximity to the new junction point with the existing base track.

At the western end, the base track will be closed upslope of the beach terrace area. This will result in an approximate 100m length of the existing base track remaining in place, which will provide a series of vantage points above the new track section from which elevated views over the harbour entrance and towards Matakana Island will be available.

At the two closure points earth bunds will be installed to discourage access. The surface of the existing base track will be scraped and top-soiled, with native replanting implemented. The temporary diversion will be returned to grassland, as it was prior to installation.

#### 4. Archaeological site descriptions and condition assessment

Archaeological field inspections and mapping of the areas of proposed project work were carried out during the period March – June 2018.

Archaeology B.O.P undertook archaeological mapping on the lower southern and western slopes of Mauao below the current base track alignment, extending from the iron jetty west past the recent large slip and then north to the sandy bay where the proposed new alignment corridor will join the existing track. The purpose of the mapping was to identify all visible surface archaeological features in the area in relation to the new base track alignment corridor to facilitate development of a corridor that minimises impact on archaeological values.

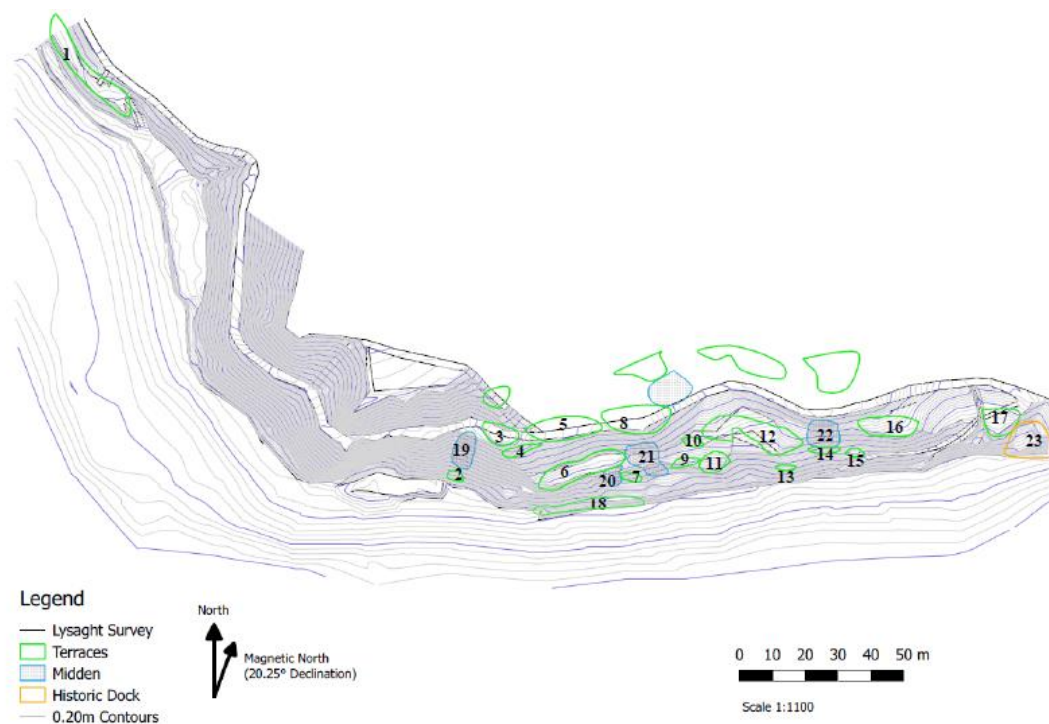


Figure 2: Visible archaeological features recorded within the vicinity of the proposed base track alignment project area. These features comprise archaeological site U14/3654.

This area of archaeological features has previously been largely unrecognized due to its dislocation by the base track, and due to being obscured by vegetation. It does, however, have a direct relationship with the visible features above the base track and is contiguous with those features. These features have been recorded as archaeological site no U14/3654.

Terraces are the predominant visible surface archaeological feature within the surveyed area. The eighteen (18) identified terraces range from large occupation terraces (features 6, 12, 16 and 17 on figure 2) to small terraces of unknown function. Figure 2 illustrates the extent of the tread of the terraces and it should be noted that the risers (or scarps) above and below the treads are also component parts of each terrace feature.

Midden deposits are also extensive within the surveyed area; however, only discrete concentrations have been identified by polygons shown on Figure 2. The highly stratified middens within features 21 and 22 are characteristic of large shell mounds that previously occurred on the Pilot Bay dunes and are still found on the southern slopes of Mauao. The large midden mound directly above terrace 8 and just outside the surveyed area was probably quarried in the 19<sup>th</sup> century for use as road aggregate.

The location, history and significance of the iron jetty and surviving stone breast work (feature 23) has previously been described in detail elsewhere and recorded as archaeological site U14/362 in the NZ Archaeological Association Site Recording Scheme<sup>5</sup>. It is thought to have been constructed in the 1880s and is recognized as a significant historic archaeological feature associated with pre-1900 maritime activity in Tauranga Harbour. The iron jetty is near the alignment corridor but will not be directly affected.

The construction of the existing base track involved a degree of cut and fill earthwork, however this appears to have been negligible along the southern section of the track where it traverses the slump formation of the Waipatukakahu Spring. In this location the track passes over archaeological terraces. More significant cuts are evident within the currently closed off section of the track.

The existing base track has been constructed over two terraces (features 5 and 8 on Figure 2) near the eastern end of the current diversion section, and the diversion section 'floats' over a significant archaeological terrace.

The narrow path extending from the base track down to the boulder field on the foreshore has caused some damage to one terrace (feature 15) and probable midden deposits. The path also contains an old water pipe that probably ran from the iron

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<sup>5</sup> Phillips K J S 2003. Preliminary Archaeological Survey and Identification of Threats to Archaeological Resources Mauao Historic Reserve. Unpublished report prepared for Tauranga District Council.

jetty reservoir down the path and west along the coastal bench, and beach. Remnants of the pipe are now visible in the intertidal zone. The track may have originally been constructed specifically to accommodate the pipe. Remnant sections of this pipeline are within the new track alignment corridor.

There is evidence of erosion within the surveyed area, however the degree to which that has caused loss of archaeological values, due to disruption, displacement or removal of deposits; cannot be assessed without subsurface investigation. In general, however it appears that the majority of features are largely intact and the integrity of the archaeological information is likely to be high.

The coastal bench (recorded as feature 18) situated approximately 1 metre above high water mark is suffering on-going coastal erosion and may have originally covered some of the exposed boulders. This is supported by examination of historic aerial photography which shows the area as subject to sand accretion and erosion, with a relatively large sand beach extending 20 metres or more out from the low coastal bench (feature 18) in 1959 (NZAM 3005/28 flown 16-01-1959). This coastal bench has extensive shell midden evident within intermixed soil overlying the rear of the boulder field, and midden is being actively eroding at the coastal edge.

One pit/terrace feature (feature 7) within the surveyed area may have been caused by a tree throw, however subsurface investigation would be required in order to establish this. Disruption of archaeological deposits due to rabbit burrowing activity is limited within the surveyed area.



Figure 3: Junction of the existing base track and track to boulder field and beach, which is constructed across terrace feature 17 (Photo credit, InSitu Heritage Ltd, March 2018).



Figure 4: Track to boulder field and beach, which is constructed across terrace feature 17 (Photo credit, InSitu Heritage Ltd, March 2018).

## 5. Archaeological values and assessment of effects

Mauao is a historic reserve gazetted under the Reserves Act 1977. It is also identified as a wahi tapu on the Heritage New Zealand List (item no. 9423), under the Heritage New Zealand Pouhere Taonga Act 2014.

The archaeological mapping of the base track project area identified a total of twenty (20) archaeological features in the area below the existing base track and three (3) further features partially within the existing alignment (Figure 2). The existing base track has been constructed on at least three archaeological terraces, parts of which extent into the surveyed area. The archaeological features within the base track construction corridor have been illustrated on Figure 2 as discrete polygons, however the intervening spaces form part of the archaeological landscape and are highly likely to contain buried archaeological features.

The archaeological features relating to archaeological site U14/3654, that have been identified within the project area are an important component of the extensive archaeological and cultural landscape on the southern and eastern slopes of Mauao. Mauao is an archaeological landscape that has regional and national significance, which has been described and assessed previously.<sup>6</sup> Individual features, and clusters of features, within that landscape have been subject to modification in the past, and many continue to be subject to on-going degradation and loss. The features within the project area are relatively intact, although subject to coastal erosion processes. Archaeological investigation of such features would contribute information about the history of occupation and resource use.

Much of the past loss of archaeological features at Mauao has resulted from reserve management actions. The proposed alignment corridor of the base track, and construction methodology, has been designed to avoid or minimise impact on identified archaeological features. However, the construction activity will still have localised impact on individual archaeological features.

The board walk portion of the alignment corridor will cross over visible terrace features 17, 14 and 15 as well as midden mound 22; and associated buried

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<sup>6</sup> Phillips K J S 2003. Preliminary Archaeological Survey and Identification of Threats to Archaeological Resources Mauao Historic Reserve. Unpublished report prepared for Tauranga District Council.

archaeological features, with minimal impact due to the proposed construction technique.

Cuts will be avoided wherever possible; however, these will impact on visible archaeological features at two points (in the vicinity of chainage 70 and 100). The maximum cut depth is approximately 0.9m, undertaken along a length of approximately 15m. These cuts will remove the edge of terrace feature 12 and will remove the majority of terrace feature 11.

The base track alignment corridor chainage 120 to 160 will significantly impact on terrace feature 18, resulting in its removal; as the base track revetment cannot be built over the top of the terrace.

Closure and remediation of the existing base track will potentially affect terrace features 5 and 8 (Figure 2), and archaeological features underlying the current diversion section (installed in 2017 under the provisions of archaeological authority no. 2017/945EM2). These sections should remain in grass or shallow rooting vegetation to avoid loss of archaeological features, which has been confirmed in the Landscape Concept Plan for the remediation of the subject area.

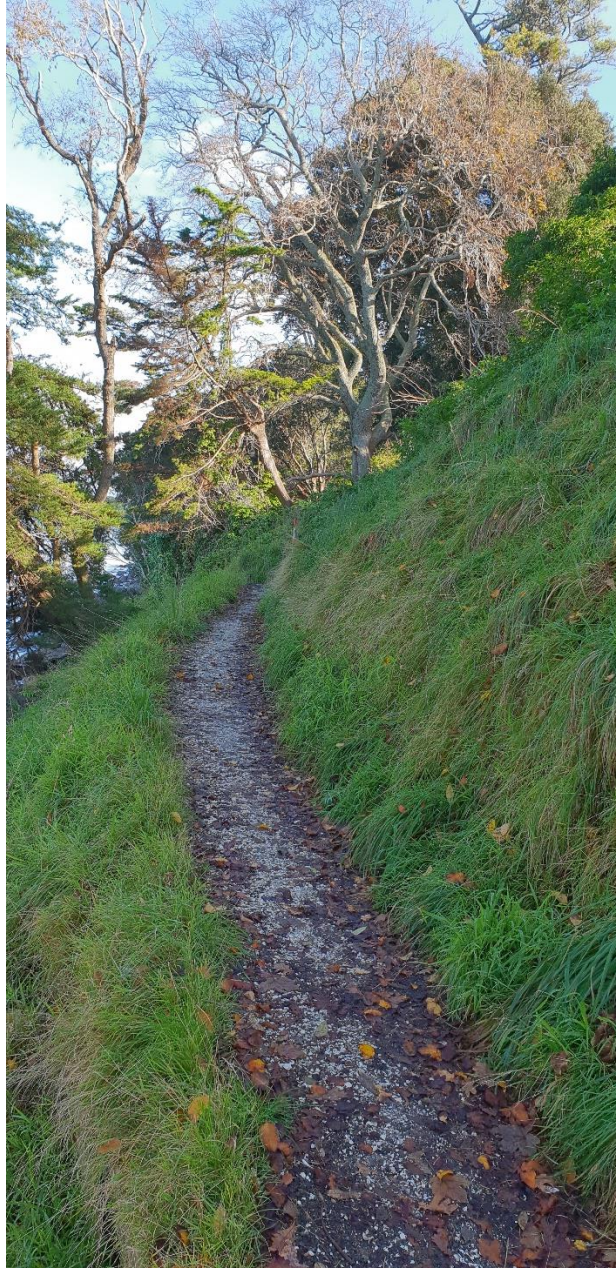


Figure 5: Existing track to boulder field and beach, view toward terrace features 14 and 15, within the construction footprint of the proposed board walk (photo credit, InSitu Heritage Ltd, March 2018).



Figure 6: Area of terrace features 11 and 12, within the construction footprint of the proposed board walk (photo credit, InSitu Heritage Ltd, March 2018).



Figure 7: Midden on terrace 18, within the construction footprint of the revetment and new base track section (photo credit, InSitu Heritage Ltd, March 2018).



Figure 8: General view of the area of terrace 18 (at right of photo), within the construction footprint of the revetment and new base track section (photo credit, InSitu Heritage Ltd, March 2018).

## 6. Conclusion and recommendations

The proposed base track alignment corridor has been designed to minimise adverse impacts on archaeological values. However, an element of ground disturbance is required; and the construction activity will result in the modification and/or loss of archaeological features at several locations within the alignment. In addition, it is impossible to determine the exact nature and extent of associated buried archaeological deposits without subsurface testing. It is highly likely that there will be some impact on archaeological deposits that have no surface features.

The archaeological features of site U14/3654, that will be affected, are currently largely intact and have not been subject to significant previous disturbance. They contain information that, through archaeological investigation, would contribute to the understanding of the history of human occupation and resource use at Mauao.

The following recommendations are made in order to mitigate the impacts on archaeological values:

- An application should be made under the provisions of the *Heritage New Zealand Pouhere Taonga Act 2014* for a general authority to modify or damage archaeological sites for the purposes of the construction, establishment and use of a new 360m long section of base track, located downslope of the existing base track; and the closure and remediation of approximately 280 metres of the existing base track following the opening of the new section of track. Reference to recorded archaeological site U14/3654 should be included within the application.
- All effort should be made to minimise further alteration, modification or damage to intact archaeological features. This could be facilitated by ensuring, wherever possible, that the supporting piles for the boardwalk portion of the track are not placed within the tread of the terraces.
- Remediation work on the existing base track sections that will be closed should avoid ground disturbance in areas identified as containing intact archaeological features. The existing track surface and bed can be removed or broken up and replaced with topsoil, but these areas should then be sown in grass or shallow rooting vegetation to avoid loss of the underlying intact archaeological features.
- Removal of the track materials within the current diversion section (installed in 2017 under the provisions of archaeological authority no. 2017/945EM2)

must be completed without ground disturbance and the area should then be re-sown in grass and managed back to grazed pasture cover.

- Prior archaeological excavation of the areas identified for placement of cuts, and the entire affected area of terrace feature 18, should be carried out ahead of any construction work commencing, in order to ensure there is sufficient time to fully investigate and record all affected archaeological features.
- Archaeological monitoring, as required and considered appropriate by the section 45 archaeologist, of all other earthworks is recommended in order to ensure that any buried deposits that are encountered can be assessed and appropriately recorded.
- Procedures for compliance with any conditions contained in any archaeological authority granted by Heritage New Zealand will need to be developed and addressed prior to any project earthworks.

## 7. References

Mauao Historic Reserve Management Plan. 2017, Tauranga City Council and the Mauao Trust

Phillips K J S 2003. Preliminary Archaeological Survey and Identification of Threats to Archaeological Resources Mauao Historic Reserve. Unpublished report prepared for Tauranga District Council



**InSitu** Heritage Ltd

**Archaeological Site Management Plan  
for Archaeological Site U14/3654,  
Base Track Realignment,  
Mauao Historic Reserve**

**October 2018**

Prepared for: Tauranga City Council  
Private Bag 12022  
TAURANGA 3143

Prepared by: InSitu Heritage Ltd.  
P O Box 710  
WHAKATANE 3158

# 1. Purpose

This document provides an archaeological site management plan to guide Tauranga City Council staff and contractors during planned base track upgrade work within the Mauao Historic Reserve. This work will be carried out under the conditions of an archaeological authority and will affect portions of a recorded archaeological site, U14/3654, located within the track alignment.

Detail about the archaeological features are contained within an archaeological assessment report prepared by InSitu Heritage Ltd for Tauranga City Council in October 2018.

**All ground disturbance where there is the potential to encounter archaeological features will be subject to prior investigation or monitored at the discretion of the approved archaeologist under the conditions of an archaeological authority granted by Heritage New Zealand. Provision for archaeological investigation prior to commencement of track construction work will be made by arrangement with Tauranga City Council. The nature and extent of that investigation will be determined by the conditions of the archaeological authority (not yet granted at the date of preparation of this management plan).**

## 2. Responsibilities of Tauranga City Council and its contractors

1. On receipt of the archaeological authority Tauranga City Council staff shall ensure that all conditions of the authority are understood and complied with, and a copy of the authority is supplied to the contractor appointed to carry out the track upgrade work.
2. The contractor should also be supplied with a large-scale plan of the work area showing the extent of the known archaeological sites in relation to the track alignment and all planned ground disturbance.
3. Heritage New Zealand and the approved archaeologist should be advised of the planned programme of works, and the timetable, **with adequate notice** to ensure site attendance as may be required.
4. An on-site briefing shall be carried out by the approved archaeologist prior to the commencement of project works. This briefing must be attended by all staff/contractors to be engaged in ground disturbing activities.
5. Tauranga City Council or their contractor must ensure that any new personnel who join the work programme are also made aware of the requirements in relation to archaeological site management.
6. Arrangements for appropriate cultural monitoring of works and tikanga requirements are to be made directly between the Tauranga City Council and tangata whenua.
7. Tauranga City Council will supply sufficient site security (to prevent unlawful excavation or removal of archaeological material), and logistical support or

mechanical equipment, to ensure that any archaeological work that is required can be carried out.

8. Tauranga City Council will provide a safe and cooperative work environment for the archaeologist to carry out any site investigation or monitoring required.

### **3. Responsibilities of the approved archaeologist**

1. The archaeologist will attend and conduct an on-site briefing for Tauranga City Council staff and contractors. That briefing is to include explanation of the requirements of the Heritage New Zealand authority conditions; and sufficient description of 'archaeological material' to ensure that council staff and contractors can make appropriate decisions about seeking site attendance by the archaeologist.
2. The archaeologist will monitor ground disturbance and investigate archaeological sites in accordance with the conditions of the Heritage New Zealand authority.
3. The archaeologist will respond to requests for site attendance and/or advice within 24 hours, provided that adequate prior notice of the timetable of works has been supplied.
4. The archaeologist will investigate any identified archaeological features as quickly as possible so that project works are not unduly delayed.
5. The archaeologist will ensure that all archaeological work, and required reporting, is carried out to the appropriate archaeological standard and to the satisfaction of Heritage New Zealand consenting requirements.
6. Archaeological monitoring and/or investigation may include, as appropriate: mapping, recording of features in section and in plan, photography, hand excavation, collection of samples – including for faunal analysis and radiocarbon dating purposes.
7. Reporting to Heritage New Zealand will be via short email communication following each field visit; and final written reporting the scale of which will be determined by the nature of the archaeological features encountered and/or investigated.

#### **4. Procedure to be followed in the event that taonga (artefacts) or bone are exposed during earthworks not directly supervised by the approved archaeologist**

1. If bone material or artefacts are exposed during ground disturbance all work within the immediate vicinity of the find will cease.
2. Project works may continue in other areas of the work site following such a find, provided that further similar finds are not also being exposed in those areas.
3. The area of the find should be marked by high visibility tape and secured by any other appropriate means (such as re-covering with soil, polythene or other marking layer) to ensure no further immediate disturbance occurs.
4. The approved archaeologist shall be notified of the find and arrangements made for site attendance.
5. Following the site inspection, further action in relation to the find will be determined by the approved archaeologist in consultation with Heritage New Zealand, Tauranga City Council and tangata whenua representatives, depending on the nature of the find and the requirements of the archaeological authority from Heritage New Zealand.

#### **In the event that the bone material is obviously human (or is identified as human by the archaeologist) the following procedure will apply:**

1. All ground disturbances are to cease, and the find is to be immediately secured to ensure that no further disturbance occurs. No material is to be removed from the location of the find.
2. The site supervisor will immediately contact the New Zealand Police, Heritage New Zealand, the approved archaeologist and tangata whenua. Any instructions issued by the New Zealand Police must be complied with.
3. The requirements of tangata whenua are carried out following agreed protocols, provided that the requirements of legislation are met.
4. Any requirements for archaeological analysis of human remains are to be determined by tangata whenua in consultation with the approved archaeologist.
5. Ground disturbance in the affected area can proceed following the removal of the human remains and on the completion of any archaeological investigation of associated archaeological features.

# Mauao Historic Reserve Base Track Realignment Project: Research Strategy for site number U14/3654

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## 1. Background

Mauao Historic Reserve is a rich and highly significant cultural landscape, and is also a wahi tapu. The reserve contains four known pa complexes represented by approximately 800-1,000 visible surface archaeological features including pits, terraces, platforms, house floors, shell middens and shell mounds.

The archaeological mapping of the project area identified a total of twenty (20) archaeological features in the area below the existing base track and three (3) further features partially within the existing alignment. These features are important components of the cultural landscape on the southern and eastern slopes of Mauao, which has been subject to modification in the past, and may continue to be influenced by degradation and loss. The features within the project area are relatively intact, although subject to coastal erosion processes, and therefore have the potential to yield a considerable amount of information regarding the history of occupation on Mauao, the use of the archaeological features and Maori resource use. The features have been recorded within the NZAA Site Recording Scheme as archaeological site no. U14/3654.

## 2. Research Objectives

In accordance with the Mauao Historic Reserve Management Plan management statement 5.1.2 j; the base track realignment project will be utilised to 'Enable archaeological research...to better understand the former settlement pattern and lifestyle of the ancestors who resided at Mauao...'

The research objectives for the investigation are three-fold.

1) To obtain information about the nature of visible and any subsurface archaeological features in order to inform an understanding of the specific use of these terraces (e.g. housing, storage etc.), in the context of broader historical narratives.

2) To collect material suitable for radiocarbon dating to provide a greater understanding of when these features were occupied and used by Maori.

3) To obtain and analyse, as appropriate, a representative sample of any faunal material that may be present within midden to provide information about the history of resource use.

In addition, the investigation provides an opportunity to obtain information about the character of such sites which will assist the future management and interpretation of the archaeological resource contained within the reserve. The outcomes of the investigation may

also be appropriate for inclusion within the development of cultural interpretation resources.

### 3. Methods

The proposed alignment corridor of the base track, and construction methodology have been designed to minimize impact on archaeological features. However, construction activity will have localized impact on several features, which will be the focus of archaeological investigation. These areas are:

- **In the vicinity of chainage 70 and 100** – A cut will remove the edge of a terrace feature 12 and will remove the majority of terrace feature 11.
- **In the vicinity of chainage 120 to 160** - Construction will significantly impact on terrace feature 18, resulting in its removal; as the base track revetment cannot be built over the top of the terrace.
- It is important to note that, while archaeological features within the project area have been mapped and represented as discrete polygons, the intervening spaces are highly likely to contain buried features. Such areas may be subject to investigation if considered appropriate by the supervising (section 45 approved) archaeologist.

Archaeological investigation will proceed by removing the upper topsoil layer from the terraces and other affected areas, assisted by a small hydraulic excavator (if considered appropriate by the supervising archaeologist), to expose the intact archaeological features. Thereafter investigation will proceed by hand excavation. All features will be defined, excavated, and recorded using standard techniques.

If appropriate material is encountered, samples will be taken for faunal analysis and radio-carbon dating.

The archaeological team will comprise s 7(2)(f)(ii) (section 45 archaeologist) with additional archaeological assistance as required provided by Archaeology BOP.

Any requirements for Tikanga Maori advised by Nga Poutiriao o Mauao will be followed, including karakia at commencement, and the presence of cultural monitors.

In the event that koiwi tangata are encountered, all works will cease on site, Heritage New Zealand, cultural advisors and the NZ Police will be advised and their response received prior to work recommencing.

### 4. Curation of Archaeological Material

Any artefacts will be held at Tauranga City Council Heritage Collection Storage Facility, Mt Maunganui, and notified to the Ministry for Culture and Heritage, as required by the Protected Objects Act 1975.

## 5. Reporting

Reports will be submitted to Heritage New Zealand in accordance with the conditions of the authority.

Prepared by:

s 7(2)(f)(ii)

InSitu Heritage Ltd.

PO Box 710

WHAKATANE

2 October 2018

## **Attachment 4 – Archaeological Site Record U14/3654**



# Site Record Form

**NZAA SITE NUMBER:** U14/3654

**SITE TYPE:** Pit/Terrace

**SITE NAME(s):**

**DATE RECORDED:**

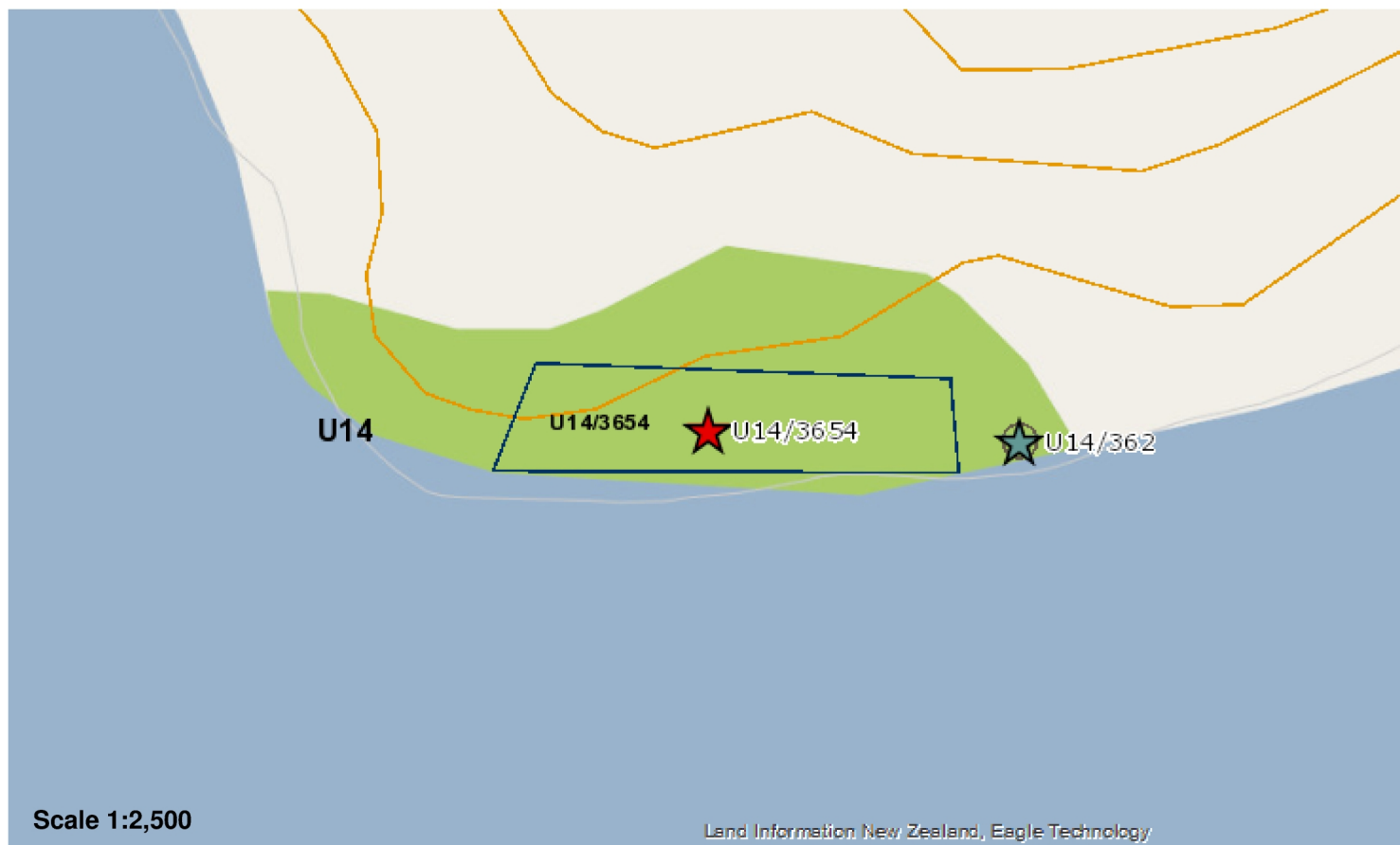
**SITE COORDINATES (NZTM) Easting:** 1879716

**Northing:** 5829869

**Source:** On Screen

**IMPERIAL SITE NUMBER:**

**METRIC SITE NUMBER:** U14/3654



**Finding aids to the location of the site**

Mauao Historic Reserve, Mt Maunganui, Tauranga. Adjacent to existing base track on southern coastal side of the reserve.

**Brief description**

**Recorded features**

Midden, Mound, Terrace

**Other sites associated with this site**

**SITE RECORD HISTORY****NZAA SITE NUMBER:** U14/3654**Site description**

Updated 25/09/2018 (Field visit), submitted by s 7(2)(f)(ii) visited 27/03/2018 by s 7(2)(f)(ii)  
Grid reference (E1879716 / N5829869)

Twenty additional features recorded within Mauao reserve in March 2018 consisting of terraces, middens and shell mounds.

**Condition of the site**

Updated 25/09/2018 (Field visit), submitted by s 7(2)(f)(ii) visited 27/03/2018 by s 7(2)(f)(ii)

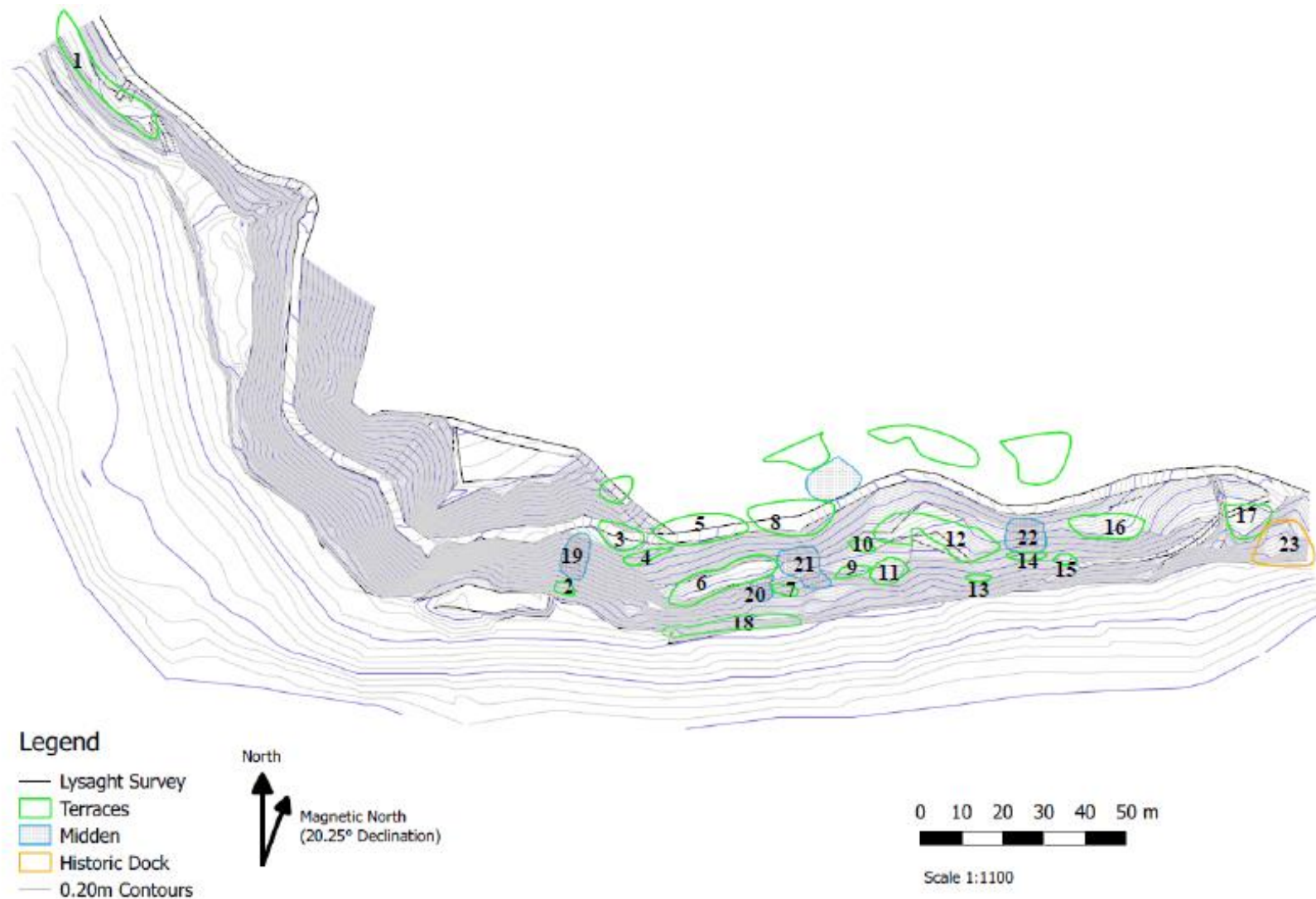
Some of the features have been affected by the existing base track and coastal erosion but are generally in good condition. Area will be affected by the construction of the proposed new alignment of the base track. Archaeological authority is being sought.

**Statement of condition****Current land use:****Threats:**

**SITE RECORD INVENTORY**

**NZAA SITE NUMBER:** U14/3654

Supporting documentation held in ArchSite



Archaeological features recorded March 2018, Mauao Historic Reserve overlaid on contour survey data provided by Tauranga City Council

## **Attachment 5 – Cultural Values Report**

## Draft Mauao Base Track Remediation Project Cultural Values Review

An overview of the Mauao base track remediation proposal is summarised in Section 7.1 of the resource consent application as follows.

*“The proposal involves the construction, establishment and use of a new 360m long section of base track, located downslope of the existing base track. The new track includes three distinct portions, which are located within the three areas described in Section 6.0 above:*

- *A 60m long section of formed track located on the beach terrace*
- *A 190m long rock revetment located on the beach adjacent to the toe of the slope, around Te Kawa Point*
- *A 110m long boardwalk traversing the slope above the boulder field, located partially along the alignment of the existing beach access track that forks off the base track.*

*The new section of track will reinstate universal access to the entirety of the base track, and will provide long-term resilience in terms of minimising the impact of any future slope failure on Te Kawa Point.*

*The track alignment plan (with a constraints plan) and cross-sections are provided as Appendix 8. As illustrated by the alignment plan, a ‘corridor’ around the track alignment and rock revetments have also been shown, to indicate that a degree of flexibility is necessary to adjust the final layout of the track and revetment at the time of construction to respond to variations in the natural environment. The flexibility provided by the corridor is sought to avoid items such as archaeology or fauna habitat that may be uncovered during the construction phase. Consent is therefore sought for the track and revetment to be established within the corridor.”*

A copy of the latest presentation sent dated 3 July 2018 to the Mauao Trustees, Ngā Poutiriao o Mauao Iwi representatives and Tangata whenua entities is attached in Appendix 1 as the following document: [T17136-Iwi-Update-Mauao Base Track Presentation 05.pdf](#)

### Project Structure

In recognition of the ownership of the ancestral maunga Mauao by the Mauao Trust, the Boffa Miskell, GHD and Tauranga City Council project team sought to work closely with the Mauao Trustees (with s 7(2)(a) - Privacy from Boffa Miskell taking the lead on Iwi engagement). The opportunity to work directly with the Iwi representatives of Ngā Poutiriao o Mauao was endorsed by the Joint Committee on 13 February 2018. The meeting confirmed the appointment of s 7(2)(a) - Privacy as the Ngā Poutiriao o Mauao representatives to work with the project team, to identify the cultural issues as the base track alignment design and construction evolve. The other key project components requiring input include local and regional planning provisions, archaeology survey evidence, ecology overlays, outstanding natural features and landscape, access, etc. The following meetings were held with Ngā Poutiriao o Mauao and the Iwi representatives:

1. s 7(2)(a) - Privacy on 8 Feb 2018 at Tauriko.
2. Ngā Poutiriao o Mauao meeting on 13 Feb 2018 at TCC.
3. Ngā Poutiriao o Mauao site visit on 9 March 2018.
4. s 7(2)(a) - Privacy 24 Jan and 28 Mar 2018 at Bayfair.
5. Ngā Poutiriao o Mauao reps and Heritage NZ hui at TCC, 3 April 2018.

6. s 7(2)(a) - Privacy on 11 June at the Matariki Exhibition base at Mauao Camp grounds.
7. s 7(2)(a) - Privacy on 21 June at Boffa Miskell Ltd office.
8. Ongoing updates and information is sent to Ngā Poutiriao o Mauao representatives.

The project team has also maintained an open communications approach with s 7(2)(a) - Privacy of Ngā Poutiriao o Mauao, and have extended the offer to meet with the administrator of the Mauao Trust and Trustees at any time outside of their scheduled Board meetings.

## Consultation with Tauranga Moana Iwi

The project team have also engaged directly with the three Tauranga Moana Iwi of Te Rūnanga o Ngāti Ranginui, Te Rūnanga Ngāi Te Rangi and Ngāti Pūkenga ki Tauranga Trust as well as Te Kapu o Waitaha as the Iwi recognised in the Mauao Historic Reserve Vesting Act 2008.

The engagement has taken the form of project updates, Iwi presentations with the opportunity to meet and discuss the proposed base track realignment with the respective Iwi authorities individually. We met with Te Rōpū Kaitiaki o Te Rūnanga o Ngāi Te Rangi on 27 March 2018. We are yet to receive any formal feedback from Ngāti Pūkenga ki Tauranga Trust, Te Kapu o Waitaha or Te Rūnanga o Ngāti Ranginui. Hui with Ngāti Pūkenga and Waitaha were organised but were postponed due to tangihanga and availability issues in April and May.

s 7(2)(a) - Privacy were able to present to the Tauranga City Council Tangata Whenua Collective representatives on 29 March.

s 7(2)(a) - Privacy of Ngā Poutiriao raised several matters with the project team on 12 May following the circulation of the revised base track concept plan drawing #51-37691-SK001 with the boardwalk alignment and the proposed track closure points for the current base track and temporary stairs.

The project team have met with s 7(2)(a) - Privacy on three occasions in June to discuss the effects of the proposed track alignment on the cultural values and relationships of tangata whenua with Mauao.

## Mauao Cultural Values

Mauao (Mount Maunganui) is recognised and celebrated by Tauranga Moana Iwi and local residents as a significant ancestral mountain within the western BOP coastal landscape. Mauao is continually celebrated and acknowledged at traditional and contemporary events, in waiata (songs), haka (provocative male performance) and whaikōrero (formal speeches) every year at local, regional and national kapa haka and speech competitions.

Ngā Poutiriao o Mauao commissioned a Cultural Values Assessment Report by s 7(2)(a) - Privacy in December 2014 as the basis for the establishment of the Mauao Historic Reserve Management Plan. The report provides an in-depth account of the Iwi and waka traditions, cultural values, sites of significance including pā, wāhi tapu, waipuna, land blocks, mahinga mātaimai, living areas, archaeological features, flora areas that all connect together to shape and symbolise the eternal Tauranga Moana legend of Mauao.

In reviewing the Mauao Cultural Values Assessment Report and the Mauao Historic Reserve Management Plan, the final alignment and construction of the Mauao base track remediation project will avoid and mitigate any effects on the Waipatukakahu and the Te Kawa Waipuna. There are no kainga, pa sites, wāhi tapu or urupā located within the project route / area.

## Issues Raised by Tangata Whenua Consulted

The following is a summary of the spectrum of project issues raised Iwi and hapū representatives are keen to be involved and updated on the progress of the base track alignment and final construction details. The meeting was positive in clarifying what has developed to date for the track alignment and also raised the following matters:

### 1) Significant Cultural Issues:

- (a) Mauao is an impressive natural phenomenon and a significant cultural landscape feature within the western Bay of Plenty coastline. This must be maintained.
- (b) The protection of the Pōhutukawa trees along the proposed track alignment is significant cultural interest to Iwi. However, the Mauao Track Rehabilitation Tree Protection Plan Report (June 2018) has identified two pōhutukawa trees, one English Oak and a Macrocarpa tree for removal along with all major dead wood to reduce the risk to construction workers and the general public. The two Pōhutukawa trees are on either side to the Te Kawa slip site and will enable the safe use of the base track along the revetment.
- (c) The proposed alignment of the base track along the coastline of Mauao is supported as it continues the traditional practice of access pathways along the Hukitawatawa escarpment area. The higher Hukitawatawa plateau was known and recognised as a high activity and living / occupations area for residents that was also adjacent to the Ruarapapari Pa site.
- (d) The archaeological assessment report confirms that Mauao is a huge and extensive archaeological site and identified 18 terraces, extensive midden with two large examples identified within the project area indicating the extensive levels of occupation on the plateau above. The remnants of the 1880's iron jetty located east of the start of the new proposed track are also noted in the report.
- (e) The task for the project team is to try and balance all of the competing significant values that makes Mauao such an iconic destination. It is clear from all of the archaeological, cultural and environmental reports written on Mauao, no matter what level of work is undertaken, you will inevitably affect some cultural, archaeology and or environmental features and or values on Mauao.
- (f) The design and location of the boardwalk and revetment structures should not affect, obstruct or stop the flow of the waipuna that are within the project area including Waipatukakahu and the Te Kawa Waipuna.
- (g) The significance of the boulder field on the southern shoreline of Mauao as a natural feature caused from erosion of the coastline rather than a cultural feature needs further investigation.

### 2) Ecological and marine effects in the project area were strongly raised:

- (a) What are the ecological effects of Myrtle Rust on the Pōhutukawa Trees in the project?
- (b) What are the long term ecological effects on the marine life, fish, shell fish and flora during and post construction phase?
- (c) Does the design of revetment and boardwalk allow for the nesting of the blue penguins in the project and construction area as well as the bush area above the track?
- (d) What are the likely impacts on the other native birds that live and feed in the area and roost on the trees?
- (e) Would the revetments have any effect on the scouring of the Mauao coastline to the east of the project area and Pilot Bay?

### 3) Project design matters:

- (a) Beach access provision for wheel chair or prams via a ramp were discussed and supported in general with the final details yet to be finalised with no impact on the either of the Waipuna at the western end of the base track realignment.
- (b) Some representatives were interested in understanding how option 5 from the Tonkin and Taylor Report was selected as the preferred option by TCC and Ngā Poutiriao.
- (c) The use of the composite fibre materials for the construction of the boardwalk are more resilient, durable and likely to be less intrusive than the use of tanned timber products on the environment and the archaeological features along the proposed track alignment. The use of handrails along the boardwalk will be required and determined by the design team.
- (d) The final rock revetment structure will provide some form of protection from the sea to the south western shoreline and Te Kawa escarpments on Mauao from future erosion is supported.
- (e) The opportunity to incorporate a viewing area that allows other users to continue to walk by because of the depth provided in this area below the Te Kawa slip site is seen as a welcomed rest and reflection area for groups to take in the coastal harbour sights.
- (f) The actual slip area will be covered by a matting / mesh to ensure public safety from falling debris fall and allow some planting to occur as soon as possible.
- (g) The project team are considering the how to reinstate sections of the base track that will be closed once the new base track is opened. There is likely to be substantive planting cover over the closed sections of track. At the closure points earth bunds may also be erected to deter people from accessing the closed areas. The team are also discussing the installation of interpretation signage at the closure points to highlight significant areas and features.
- (h) The project team are also considering the closure from western end of the existing track below the temporary stairs and above the Te Kawa Waipuna and beach area to provide an elevated look-out point above the base track that people can look over the beach, the harbour entrance and west along the Matakana Island coastline to Bowentown and also watch ships entering the harbour.

In reviewing the Mauao Cultural Values Assessment Report, maps and the 2018 Mauao Historic Reserve Management Plan it is clear that the final alignment and the proposed construction design of the Mauao base track will avoid and mitigate any effects on the Waipatukakahu and the Te Kawa Waipuna. There are no kainga, pa sites, wāhi tapu or urupā located within the project route / area.

### 4) Iwi Presentations:

- T17136-Ngāi Te Rangi Mauao Update – 27 March 2018.
- T17136-TCC TW Collective Mauao Base Track Presentation – 29 March 2018.
- T17136-Ngati Pūkenga Mauao Base Track Presentation 01 – 19 April & 8 May 2018.
- T17136-Ngāti Ranginui Mauao Base Track Presentation 01 – 11 April & 8 May 2018.
- T17136-Waitaha Mauao Base Track Presentation-02 8 May 2018.
- T17136-Iwi-Update-Mauao Base Track Presentation 04 – 14 May 2018.
- T17136-Iwi-Update-Mauao Base Track Presentation 05 – 3 July 2018.

## Matters of National Importance

### 1) Section 6 (e): the relationship of Māori

The Mauao base track project will meet the requirements of the Section 6 “Matters of National Importance” in relation to managing the use, development, and protection of natural and physical

resources. It shall recognise and provide for in particular sub-section 6 (e): the relationship of Māori and their culture and traditions with their ancestral lands, water, sites, waahi tapu, and other taonga. This is achieved for Mauao through the engagement of the three categories of Māori authorities and affected parties:

- (a) Mauao Trustees (property owners) and Iwi representatives on Ngā Poutiriao o Mauao (property administrators and managers) of the Mauao Historical Reserve;
- (b) Three Tauranga Moana Iwi authorities / tangata whenua entities for Ngāti Ranginui, Ngāi Te Rangi, Ngāti Pūkenga and Waitaha a Hei from Te Arawa;
- (c) TCC Tangata Whenua Collective workshop enables a wider Māori, hapū and Iwi membership to revive this information then required under the Mauao legislation.

Access to Mauao via the base track has been maintained since the establishment of the temporary stairs over and around the Te Kawa slip site and throughout the whole site investigation and design phase of the project to all tangata whenua entities, their beneficiaries, Māori, manuhiri and non-Māori in Tauranga Moana.

The Project Team has always recognised the significance and sensitivity of all the identified waahi tapu sites and taonga surrounding the project area and supports the direction and intent of section 5.1.5 (a) with respect to the following wāhi tapu sites including Waipatukakahu, Te Kawa and Ruarapari Waipuna and the Ruarapari Pa site.

## 2) Other Matters

Section 7, “Other Matters” that shall have particular regard to include sub-section 7(a) kaitiakitanga, and 7(aa) the ethic of stewardship. This section is addressed through the engagement of the same tangata whenua groups above to identify and discuss the technical cultural issues with the design team to develop long term sustainable solutions for the Mauao base track.

- (a) That the project meets the cultural significance provisions in section 5.1.3 of the Mauao Historic Reserve Management Plan 2018.
- (b) This includes having the appropriate discovery and monitoring protocols as required in 5.1.5 (b) of Mauao Historic Reserve Management Plan 2018;
- (c) That a pool of cultural monitors and kaumātua are in place prior to the commencement of works on Mauao.
- (d) Ensuring the rock and gravel materials are sourced from an appropriate quarry that is compatible with Mauao from a cultural spiritual safety perspective.

## 3) Section 8 – Treaty of Waitangi

The third component of Part 2 of the Act, Section 8 requires that in relation to managing the use, development, and protection of natural and physical resources, those shall take into account the principles of the Treaty of Waitangi (Te Tiriti o Waitangi). There are several principles that include a combination of the duty:

- (a) The Mauao Trust exert their rangatiratanga rights and position as equal partners with the TCC at the governance level and Ngā Poutiriao at the operational level.
- (b) The project team have engaged with the Mauao Trustee, Ngā Poutiriao o Mauao and Tauranga Moana Iwi in a mutual relationship of respect to act reasonably, honourably and in good faith;
- (c) The project team have promoted the protection of all the significant cultural heritage sites and natural resources within this project corridor as significant to all tangata whenua.
- (d) The project team have taken on board the issues raised by tangata whenua to actively protect their interests and make informed project decisions. These principles are achieved through an

effective project consultation process of engagement with tangata whenua at the governance, operational and Tauranga Moana iwi levels.

This is demonstrated in the project team's invitation and approach to appoint a representative from Ngā Poutiriao o Mauao as a member of the project team to:

- (a) Assist and contribute to the cultural integrity of the proposed design and construction processes for the new track;
- (b) Report to the Mauao Trustees on specific project matters that require Trust sign off;
- (c) Confirm the cultural values and principles associated with Mauao for the Te Kawa Point project area including those values identified in the Mauao Historic Reserve Management Plan Section 3.2 Rangatiratanga, Mana, Kaitiaki and Mauri are enhanced within the project design;
- (d) Discuss impacts on cultural taonga along Option 5 base track route:
  - (i) The Pōhutukawa trees around the Te Kawa slip site and the foreshore area are noted as important natural cultural features that should be maintained and enhanced by the project;
  - (ii) The natural boulder fields along the shoreline at the start of the proposed new track alignment;
  - (iii) The lower section of the Te Kawa Waipuna are notable natural cultural features and cultural sites located within the proposed base track route.
- (e) Review and comment on the "Cultural Monitoring of Earthworks Protocol" of TCC;
- (f) Support the appointment of appropriate cultural monitors with the skills and knowledge during the construction of the new track;
- (g) Identification appropriate source of quarry rock and gavel for the revetment structure.

## Conclusion

The proposed approach to review the cultural effects of the proposal on the values of Mauao was discussed and agreed to with the Iwi representatives on Ngā Poutiriao o Mauao. This review provides the overarching framework for assessing the cultural values associated with the track proposal, and coupled with the extensive engagement with Tauranga Moana Iwi, there is a high degree of confidence that cultural considerations have been appropriately addressed and implemented in the track design.

The application process, with formal referrals to tangata whenua through the public notification process that is to be requested by the applicant, will provide another opportunity for Iwi to cross-check that the proposed project design and construction methodology has addressed the effects on the cultural values and associations with Mauao; and that the cultural engagement undertaken to date has addressed the cultural issues identified in an appropriate manner.

Ngā mihi o te wā o Matariki hei tohu ki a tātou katoa.

s 7(2)(a) - Privacy

Boffa Miskell

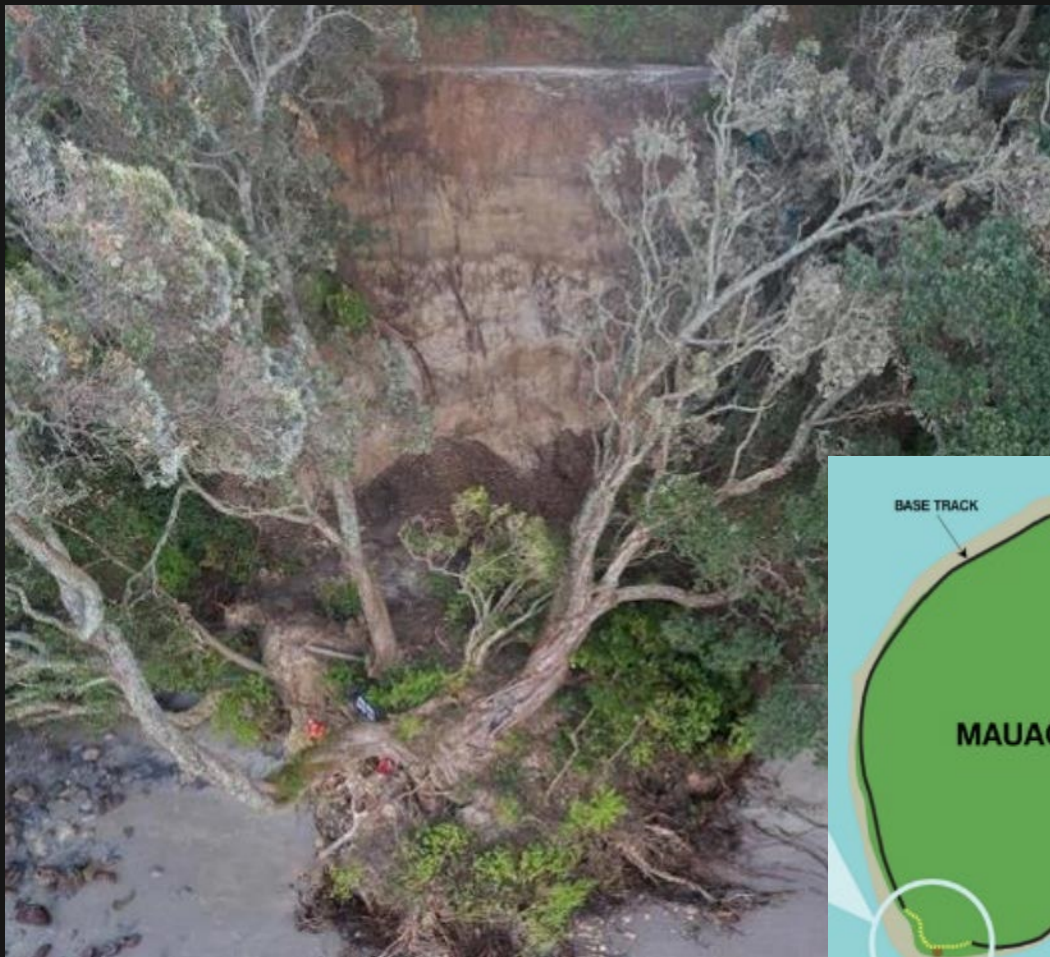
Appendix 1 - [T17136-Iwi-Update-Mauao Base Track Presentation 05.pdf](#)

Presentation slides to be inserted

# Mauao Base Track Remediation Project



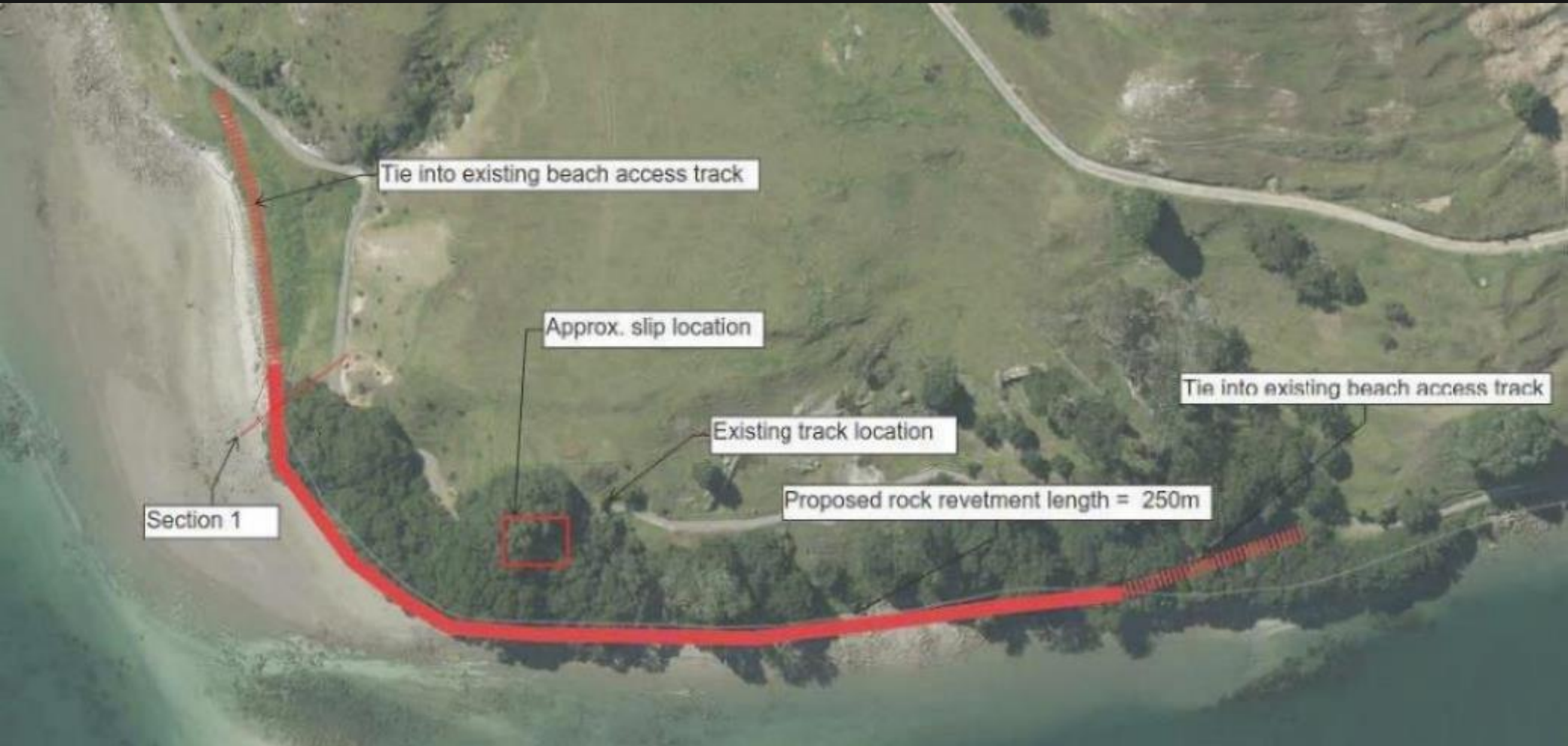
# Cyclone Debbie caused a significant slip at Te Kawa Point, Mauao - April 2017.



# Temporary access steps an interim measure



## Tonkin & Taylor Option 5 was chosen for further investigation



**Note:** Tonkin & Taylor were commissioned by TCC to undertake an assessment of the slip site and provided 6 engineered options for reinstatement of the base track in **June 2017**.

# Option 5 preliminary concept design



# Revetment and access ramps details added - February 2018



# Access to the shoreline and boulder field below Waipatukakahu



# Distinct natural shoreline boulder field



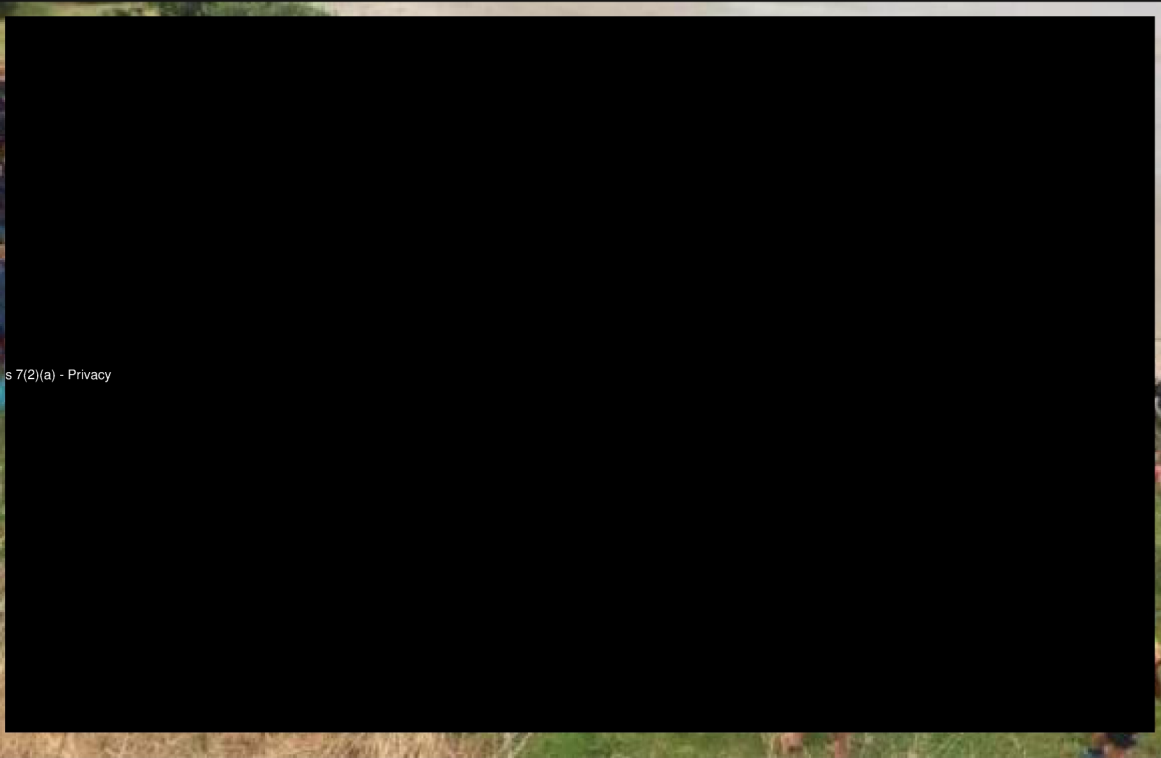
# Te Kawa Point slip and Boulder-field



# Te Kawa Point slip to the beach access



# Pillians Point School visit to Mauao & Te Kawa Beach



# Archaeological Review of the Proposed Mauao Historical Reserve Base Track Alignment – Preliminary Advice (26 March 2018)

Findings from Ken Phillips (Archaeology BOP) and s 7(2)(a) - Privacy

- 18 terraces identified 4 large and 14 small with unknown function
- Extensive midden deposits in the survey area, large midden sites 21 & 22
- Links to the Iron Jetty (U14/362 – 1880's) i.e. old rusted pipes on the shoreline
- Previous track works have uncovered archaeological terraces
- These archaeological features are important components of the extensive archaeological and cultural landscape on the southern and eastern slopes of Mauao. This is regional and national significance and has been described and assessed previously (Phillips 2003, Mauao Historic Reserve Conservation Plan 2004).
- The archaeological survey identified a total of 28 archaeological features in the area below the existing base track and three (3) further features partially within the existing alignment (Figure 1). It is highly likely that additional subsurface archaeological features are present in the survey area and may be discovered during further investigation.
- The Report recommended that the proposed realignment of the base track be designed to avoid impact on identified archaeological features.



Figure 1, Preliminary Archaeological Advice Report

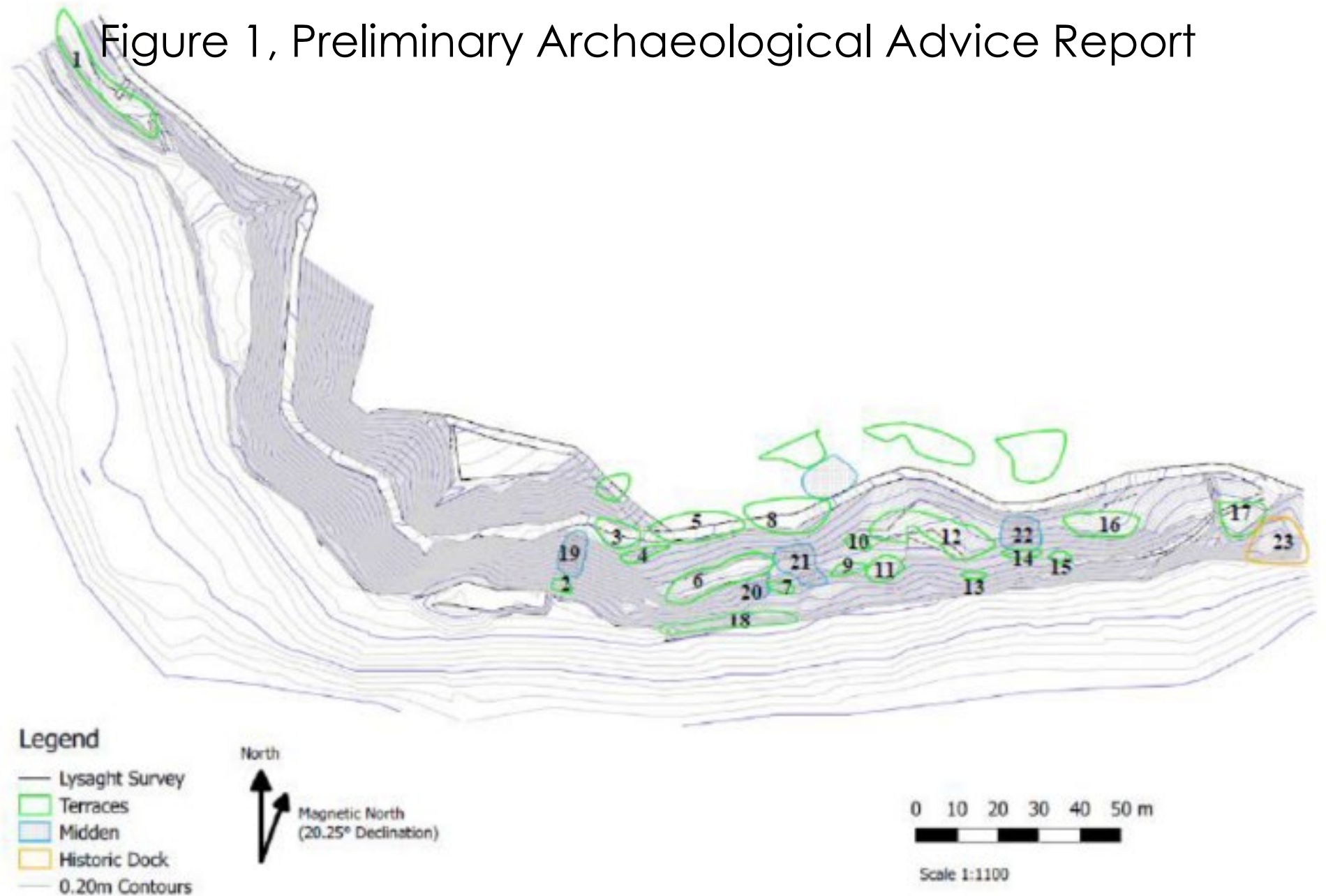
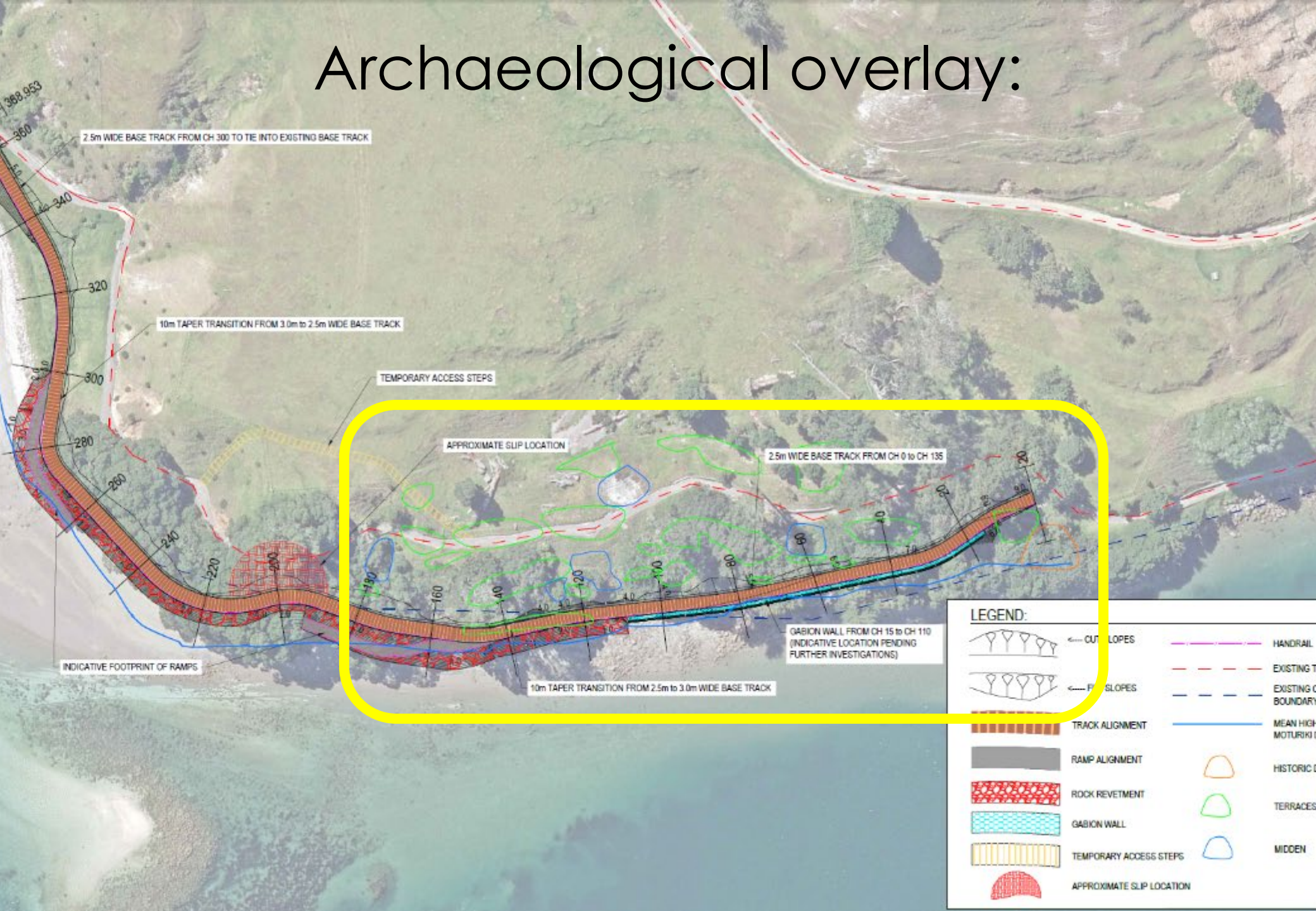
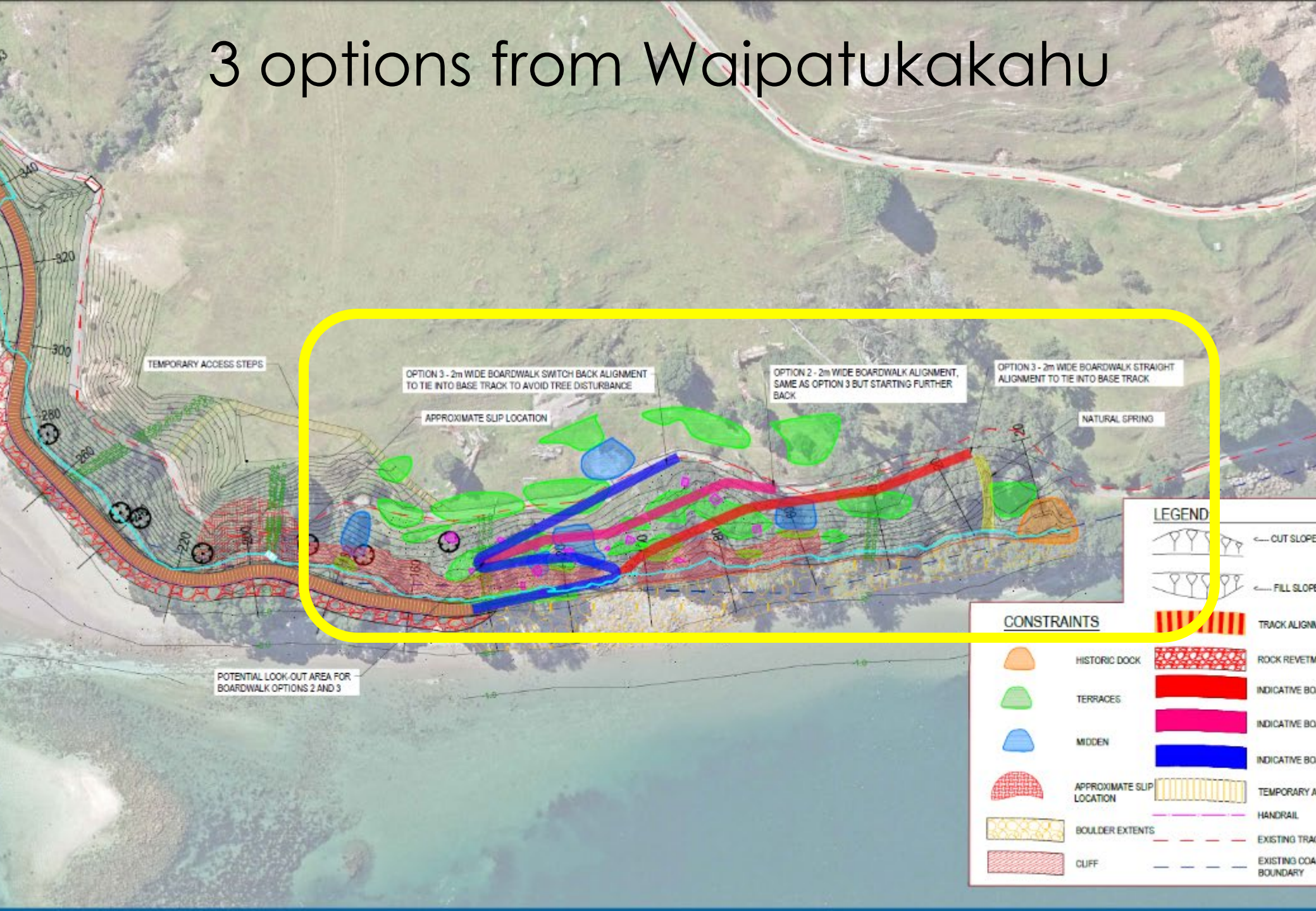


Figure 1: Archaeological features, Mauao Historic Reserve overlaid on recent survey data provided by Tauranga City Council

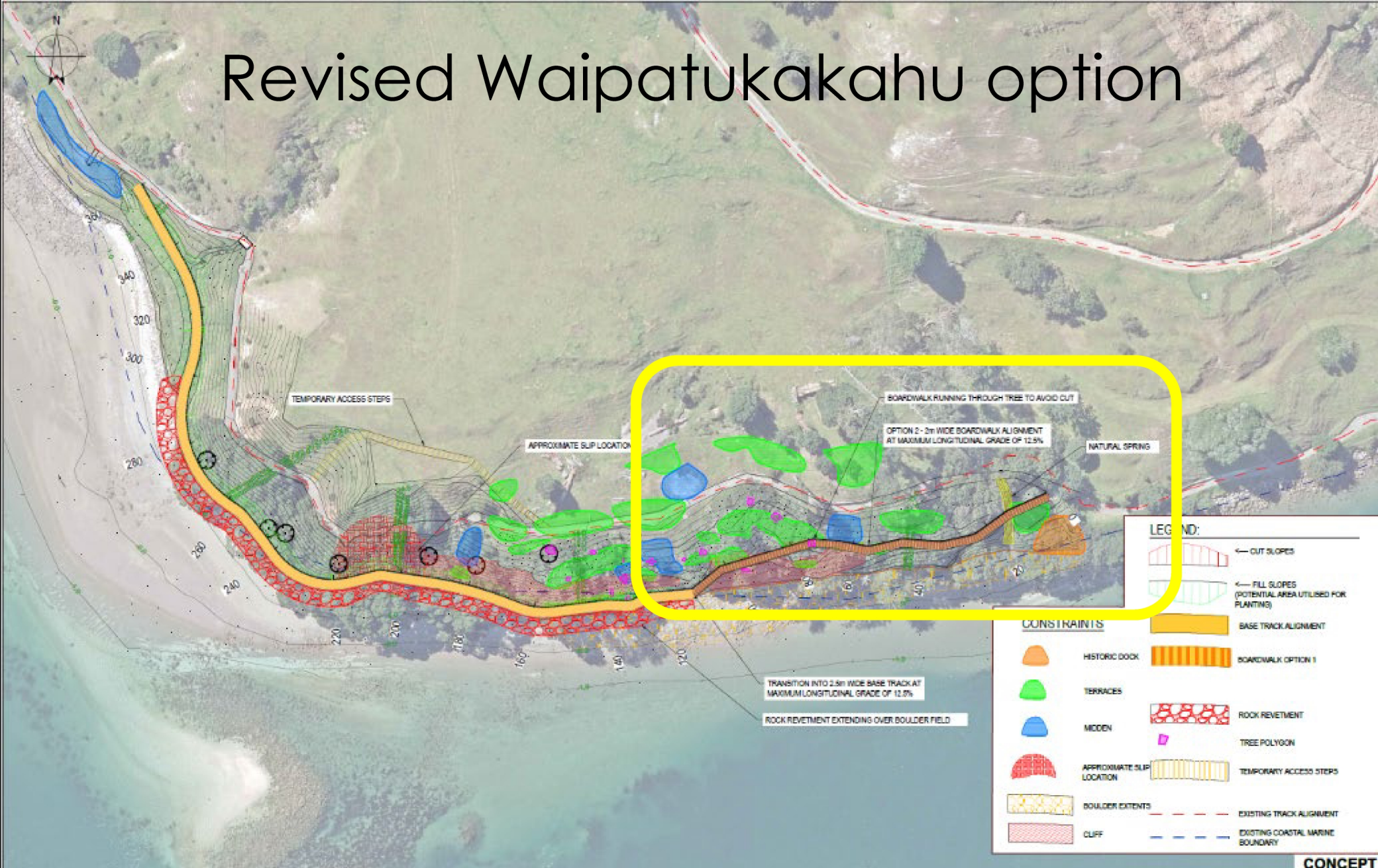
# Archaeological overlay:



# 3 options from Waipatukakahu



# Revised Waipatukakahu option



**LEGEND:**

- CUT SLOPES
- FILL SLOPES (POTENTIAL AREA UTILISED FOR PLANTING)
- BASE TRACK ALIGNMENT
- BOARDWALK OPTION 1
- BOARDWALK OPTION 2
- ROCK REVETMENT
- TREE POLYGON
- TEMPORARY ACCESS STEPS
- EXISTING TRACK ALIGNMENT
- EXISTING COASTAL MARINE BOUNDARY

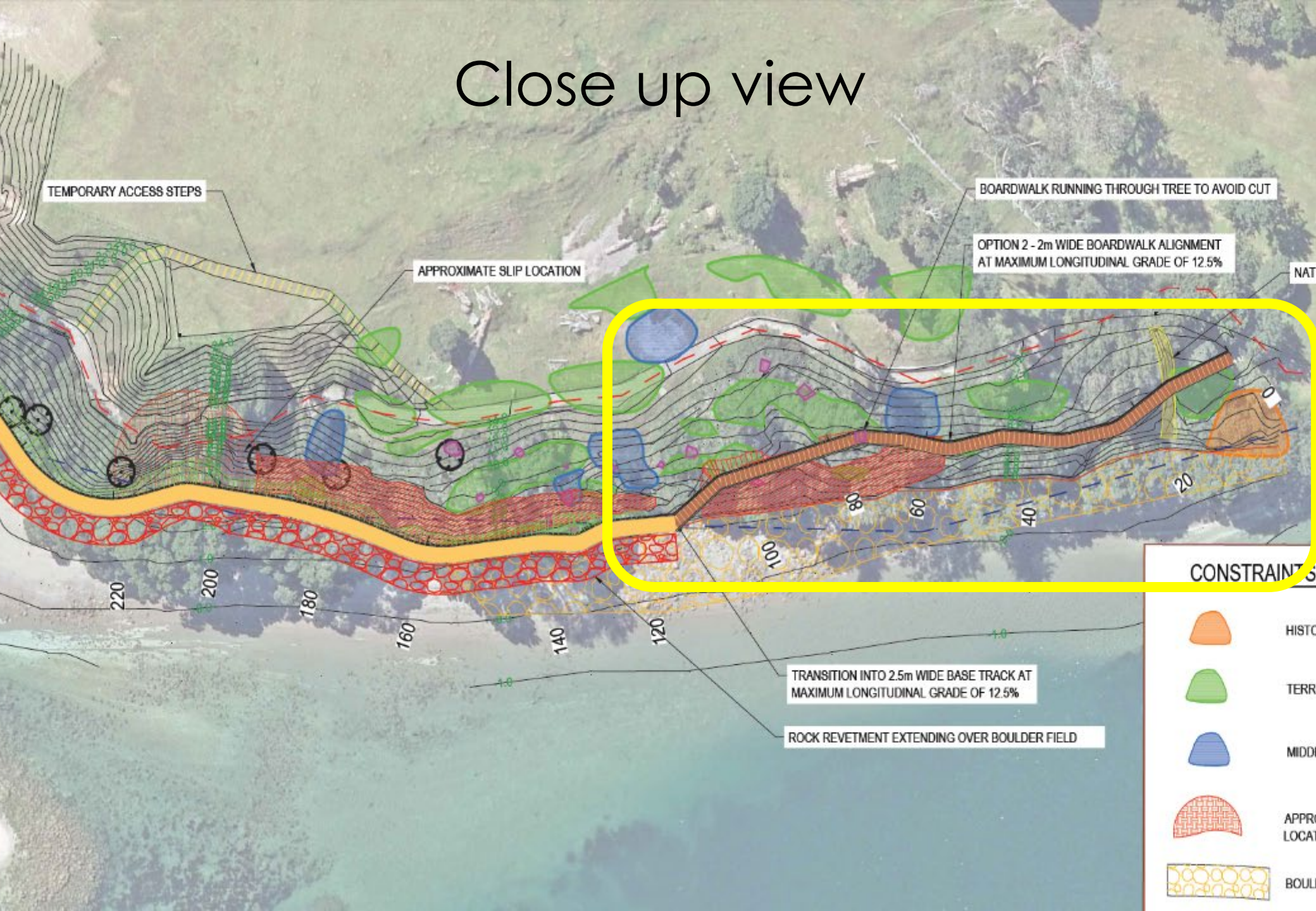
**CONSTRAINTS**

- HISTORIC DOCK
- TERRACES
- MIDDEN
- APPROXIMATE SLIP LOCATION
- BOULDER EXTENTS
- CLIFF

**CONCEPT**

<p><b>DRAFT FOR DISCUSSION</b></p> <p>08/05/2018</p>	<p>s 7(2)(a) - Privacy</p>	<p>25/05/18</p>	<p>12/04/18</p>	<p>Client: <b>TAURANGA CITY COUNCIL</b> Project: <b>MAUAO BASE TRACK</b> Title: <b>PRELIMINARY ALIGNMENT OPTION 2</b></p>	<p>Drawn: s 7(2)(a) - Privacy Checked: [ ] Engineered: [ ] Date: [ ] Scale: 1:500</p>	<p>This drawing must not be used for construction without approval.</p>	<p>Rev: B</p>

# Close up view



# Revised track alignment

The design represents the best balance between all competing values in the attached design. We have kept these concessions as small as we can and are summarised to include but are likely not limited to:

- **Mauao Trust, Ngā Poutiriao o Mauao and TCC**, the loss in long term resilience through the inclusion of boardwalk section, sections of the alignment are at the maximum grade for accessibility, potentially increases the whole of life (maintenance) cost.
- **Archaeology** – piling and minor earthworks within the boardwalk section, the potential for small amounts of fill required on upslope of the path at CH 120-160 that may cover the identified terrace in part.
- **Landscape** – Revetment through the boulder field CH110-160, the removal of at least two low hanging mature Pōhutukawa trees, and the visual effects of the boardwalk with handrails.
- **Ecology** – draft report on the potential short and long term adverse effects on penguins, shore skinks, geckos and seals.
- **National Coastal Policy** – construction of a structure within the coastal marine area.
- The **beach access** details at CH 300-360 will be provided to show the extent of the repair to the existing rock wall that protects the green open space above Te Kawa beach area for future use.



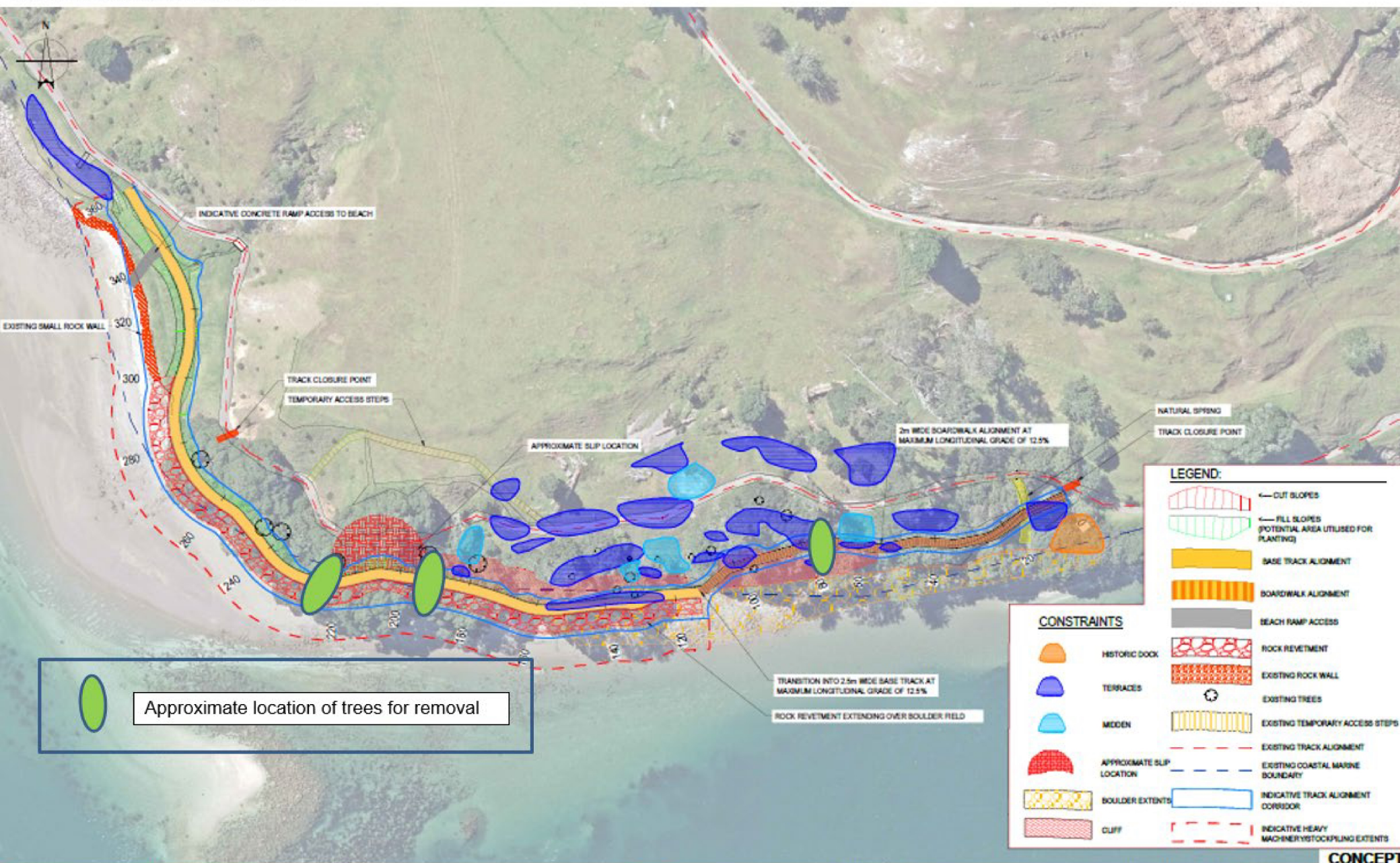
# Boardwalk



# Rock Revetment Options



Site Map 2 Proposed track location



<p><b>DRAFT FOR DISCUSSION</b></p> <p>ISSUED FOR DISCUSSION 13/09/2018</p>	<p>7(2)(a) - Privacy</p>	<p>20/09/18</p> <p>28/09/18</p> <p>05/10/18</p>	<p>Client</p> <p>Manager</p> <p>Designer</p> <p>Date</p>	<p>Scale 1:500 AT ORIGINAL SIZE</p>	<p><b>GHV</b></p> <p>Level 3, GHV Centre 27 Napier Street, Petone, Bay of Plenty, PO Box 5011, New Zealand T: 61 9 275 4000, F: 61 9 275 4001 E: hannah@ghv.com, W: www.ghv.com</p>	<p><b>DO NOT SCALE</b></p> <p>Client: [Redacted] Designer: [Redacted] Checked: [Redacted] Approved: [Redacted] Date: [Redacted] Scale: [Redacted]</p>	<p>Client: <b>TAURANGA CITY COUNCIL</b> Project: <b>MAUJO BASE TRACK</b> Title: <b>PRELIMINARY ALIGNMENT CORRIDOR AND CONSTRAINTS</b></p>	<p>Sheet No: <b>A1</b> Drawing No: <b>51-37691-SK001</b></p>	<p>Rev: [Redacted]</p>
	<p><b>CONCEPT</b></p>								

# Indicative project timeframes

1. Start up Phase; 4 Dec 2017: 15 Jan 2018
2. Preliminary concept design and development phase: 22 Jan through to mid April 2018.
3. Pre lodgement consultation with Iwi and key stakeholders from March to May 2018.
4. Resource consent application lodged with BOPRC with design details and refinements in May 2018.
5. Tender works for construction June / July 2018.
6. Construction completed by Dec 2018.



# Other Issues

- Construction materials (i.e. rock) and machinery to be barged into the site and placed on the foreshore.
- Preliminary archaeological assessment undertaken.
- Archaeological authority will be sought from HNZ.
- Note that the track alignment is subject to discussion with Mauao Trust, TCC and HNZ based on the new and evolving archaeological information.
- Cultural monitors will be on site during construction phase.
- Discovery protocols to be confirmed.
- Source of rock to be confirmed.
- Ecological assessment i.e. effects on kaimoana in the area and the penguin breeding nests.
- Pōhutukawa trees are important to Mauao base track.

