



NZ TRANSPORT AGENCY  
WAKA KOTAHI

## Roads of national significance



Completing the

# Western Ring Route

# Waterview Connection Application

**Owairaka Public Presentation**  
**Saturday 18<sup>th</sup> September 2010**

# Welcome

## Waterview Connection Application

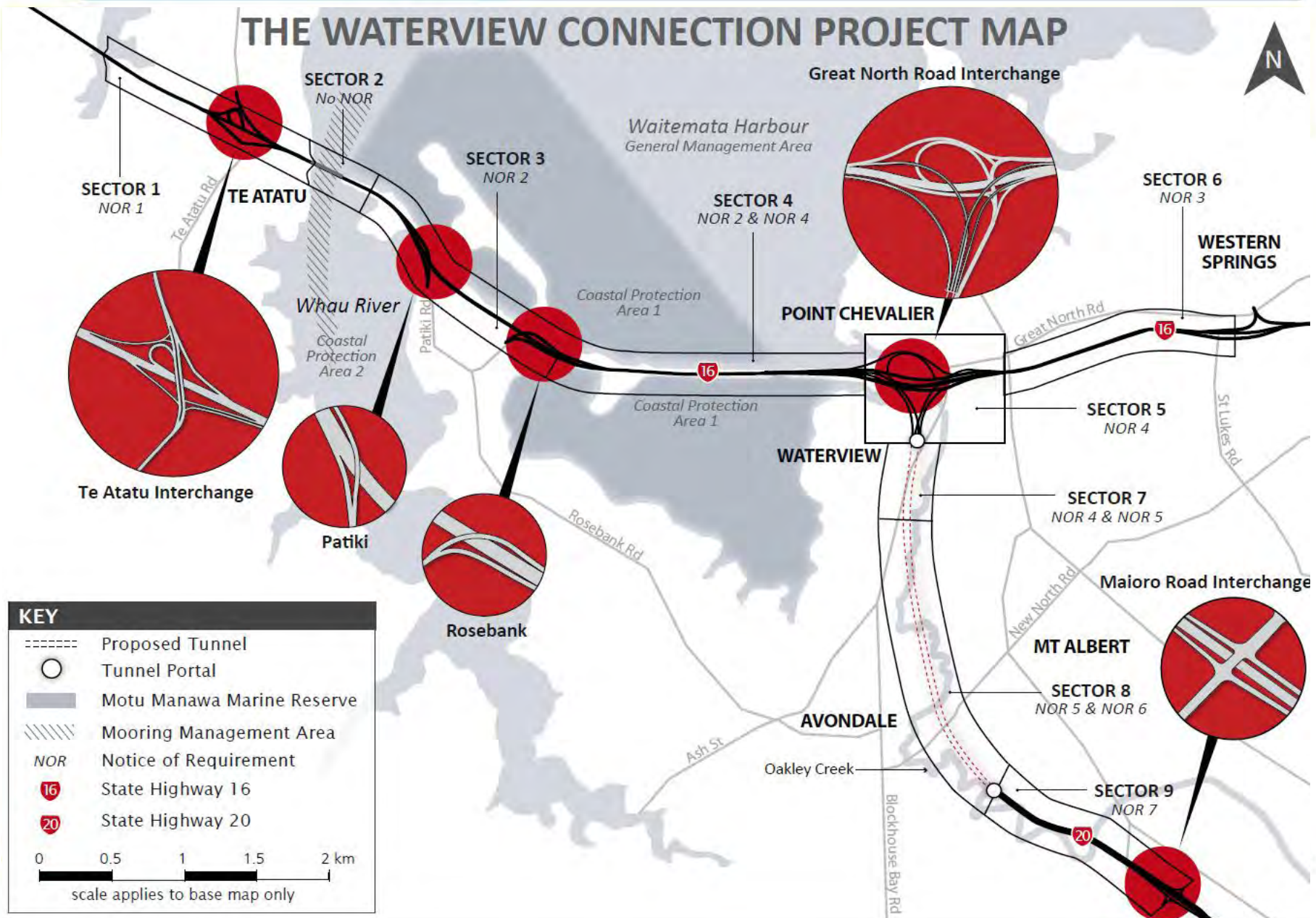
- Lodged with the EPA 20<sup>th</sup> August 2010
- Recommendation for BOI by Ministers 3<sup>rd</sup> September
- EPA publicly notified today 18<sup>th</sup> September
- Submission Period through to 15<sup>th</sup> October
- More information: [www.epa.govt.nz](http://www.epa.govt.nz)

View all of the Application on the NZTA website:

[www.waterviewconnection.co.nz](http://www.waterviewconnection.co.nz)



# THE WATERVIEW CONNECTION PROJECT MAP



**KEY**

- Proposed Tunnel
- Tunnel Portal
- Motu Manawa Marine Reserve
- ▨ Mooring Management Area
- NOR Notice of Requirement
- 16 State Highway 16
- 20 State Highway 20

0 0.5 1 1.5 2 km  
scale applies to base map only

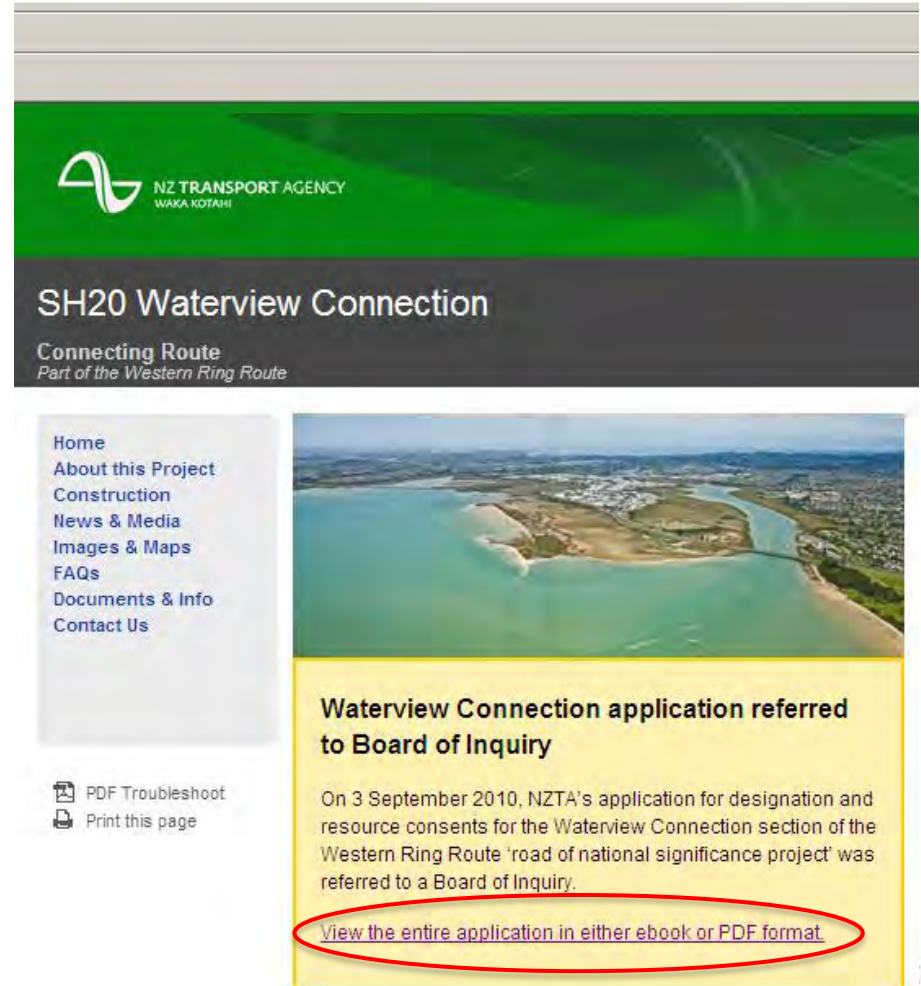
# Application Overview

7 Notices of Requirement  
(the land needed for project)

54 Resource Consents

Paper Copies of  
Information Available

[www.waterviewconnection.co.nz](http://www.waterviewconnection.co.nz)



The screenshot shows the website for the SH20 Waterview Connection project. At the top, there is a green header with the NZ Transport Agency logo and the text "NZ TRANSPORT AGENCY WAKA KOTAHI". Below this is a dark grey section with the title "SH20 Waterview Connection" and the subtitle "Connecting Route Part of the Western Ring Route". A navigation menu on the left includes links for Home, About this Project, Construction, News & Media, Images & Maps, FAQs, Documents & Info, and Contact Us. Below the menu are links for "PDF Troubleshoot" and "Print this page". The main content area features an aerial photograph of the project site and a yellow box with the text: "Waterview Connection application referred to Board of Inquiry". Below this, it states: "On 3 September 2010, NZTA's application for designation and resource consents for the Waterview Connection section of the Western Ring Route 'road of national significance project' was referred to a Board of Inquiry." At the bottom of the yellow box, a red oval highlights the text: "View the entire application in either ebook or PDF format."



## Waterview Connection

### EPA Lodgement Documents and Supporting Information

Wednesday, September 08, 2010



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#### Welcome

The NZTA has applied for designation and resource consents for the Waterview Connection section of the Western Ring Route Road of national Significance project.

This application is under the new national consenting process through the Environmental Protection Authority(EPA). It is the first roading project to use this new one step process for projects of national significance.

The NZTA application seeks approval to construct 5km of new state highway connecting SH20 with SH16. Of this 2km will be constructed as 2 x 3-lane tunnels. In addition, capacity improvement works to SH16 will be carried out, including widening and raising the causeway, adding an additional lane and bus shoulder between Henderson Creek and St Lukes interchange and additional pedestrian and cycle ways. The Waterview Connection is the 'missing link' that completes the Western Ring Route'.

On 3 September 2010, NZTA's application was referred to a Board of Inquiry. The timetable for this process will be published by the EPA.

This is the largest and most complex roading project to be processed under the Resource Management Act. The NZTA is committed to continuing to work with the public and affected parties as the project develops. This site contains all of the documents that make up the application in both ebook and pdf format.

Once completed, the Western Ring Route will provide a strategic 48km route through Auckland that reduces dependency on SH1 and the Auckland Harbour Bridge. It improves connectivity between the west of Auckland and the south and between the north and the southern isthmus. It also provides a motorway link from the airport to the Auckland City centre. A completed Western Ring Route will stimulate economic growth within the region.

For questions on how to make a submission or anything related to the EPA process please visit [www.epa.govt.nz](http://www.epa.govt.nz)

#### Summary

Provides a summary of the application and a description of the project and conclusions of the Assessment of Environmental Effects. This is a good place to start for an overview of the project.

[Click to view Summary](#)

#### Assessment of Effects

Here you can find out more about the potential effects of the project on the environment and community. This includes a description about the project, and assessment of the actual and potential effects, the alternatives considered, an assessment of the planning documents and the measures identified to avoid, remedy or mitigate the effects.

[Click to view Assessment of Effects](#)

#### Plans and Drawings



# Waterview Connection

## EPA Lodgement Documents and Supporting Information

Thursday, September 09, 2010

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Summary

Login

### Overview

Ebooks are great for fast and easy use and the quality is great for review purposes. To view the document in an ebook simply click on the ebook link. If you require the document in high quality for printing or for viewing, click on the PDF link for a higher resolution.

1. Overview

**ebook** PDF

Overview - Windows Internet Explorer provided by New Zealand Transport Agency

http://waterviewapplication.nzta.govt.nz/eBooks/Overview/

File Edit View Favorites Tools Help

Overview

Search

Search Results

alan wood

Pages found: 72

p.7 ...ath great north road through to the alan wood reserve (sector 8): from the alan...

p.18 ...signation = sector 9 - sh20 through alan wood this is a surface designation req...

p.20 ...anting, open space restoration (for alan wood reserve area), pedestrian / cycle ...

p.31 ...in a southerly direction through to alan wood reserve, passing beneath avondale ...

p.99 ...t north road in the north to within alan wood reserve in the south (nor 5). this ...

p.100 ...road through to and emerging in the alan wood reserve area. the works are the su...

p.130 ...1999 (district plan) for works from alan wood reserve, adjacent to stewart road ...

p.134 ...oad, the project alignment follows alan wood reserve to the southern tunnel por...

p.118 ...wood, marina ann thorpe 49 hendon ave 697 177 115 177 25 y y 17.13 4926756 lot 3 dp

p.144 ...wood, marina ann thorpe 49 hendon ave 697 177 115 177 25 y y 17.13 4926756 lot 3 dp

p.4 ...project undertaken to date in new zealand covering some 13.2km of existing and ...

p.9 ...s the nz transport agency the new zealand transport agency's objective is define...

Overview pages: 6-7 / 320

alan wood

Overview, Notices of Requirements and Consent Applications  
Waterview Connection

- Works on approximately 8.2km of SH16 to improve the capacity and resilience of this corridor (providing an additional traffic lane in each direction between Henderson Creek and St Lukes Interchange);
- Approximately 1.5km of new pedestrian / cycle way along the SH20 corridor (providing a continuous off-line pedestrian / cycle way along those sections of SH20 where the carriageway is at surface);
- Approximately 1km additional pedestrian / cycle way and upgrades to the existing Northwestern Cycleway (providing a continuous off-line pedestrian / cycle way between Henderson Creek and Great North Road Interchange);
- Approximately 4.2km of additional Quality Transport Network (QTN) on SH16 (bus shoulder) (providing a total 9km of QTN between Henderson Creek and St Lukes Interchange).

The Project has been described and assessed in geographic Sectors 1 - 9, which are depicted in Figure 2. In summary, the Project proposes the following (within the Sectors identified):

Between Te Atatu and St Lukes Interchanges the following key elements of work will be undertaken on SH16:

- Significant improvements and reconfiguration of the Te Atatu Interchange to accommodate additional lanes and to provide a shoulder for bus priority and other High Occupancy Vehicles (HOVs) (Sector 1);
- A shared use cycle and pedestrian way running parallel to the motorway from Te Atatu (Henderson Creek) to the Great North Road Interchange (Sectors 1 through 5);
- Enlargement of the existing Whau River Bridge to accommodate additional lanes and a separate dedicated cycle/pedestrian bridge (Sector 2);
- Reconfiguration of the existing Rosebank on and off ramps to improve traffic merging on and off these ramps (Sectors 3 and 4);
- One additional lane (in each direction) between the Te Atatu and Rosebank Interchanges to provide four lanes east and westbound and a bus shoulder in each direction (Sectors 1 to 4);
- Two additional westbound lanes between Great North Road Interchange and Rosebank Road Interchange to create a total of five westbound lanes plus a dedicated bus shoulder (Sectors 3 and 4);
- One additional eastbound lane between Rosebank Road Interchange and Great North Road Interchange, to create a total of four eastbound lanes plus a dedicated bus shoulder (Sectors 3 and 4);
- Replacement of the grade-separated cycle/pedestrian bridge in the Patiki Interchange (Sector 3);
- Widening of the existing Causeway and Causeway Bridge to accommodate additional lanes and a separate cycle/pedestrian bridge (Sector 4);
- The existing causeway between Rosebank Peninsula and the Great North Road Interchange will be enlarged by additional reclamation (Sector 4);
- In conjunction with the reclamation, the causeway height will be increased to protect the State highway against inundation and to "future proof" it against predicted sea level rise in the future (Sector 4); and
- Additional lanes, a cycleway and a bus priority lane will be provided between the Great North Road Interchange and the St Lukes Interchange (Sector 6).

Status Final Assessment of Environmental Effects August 2010  
Document Reference No. 20.1.11-3-R-N-1024 Page 0.5

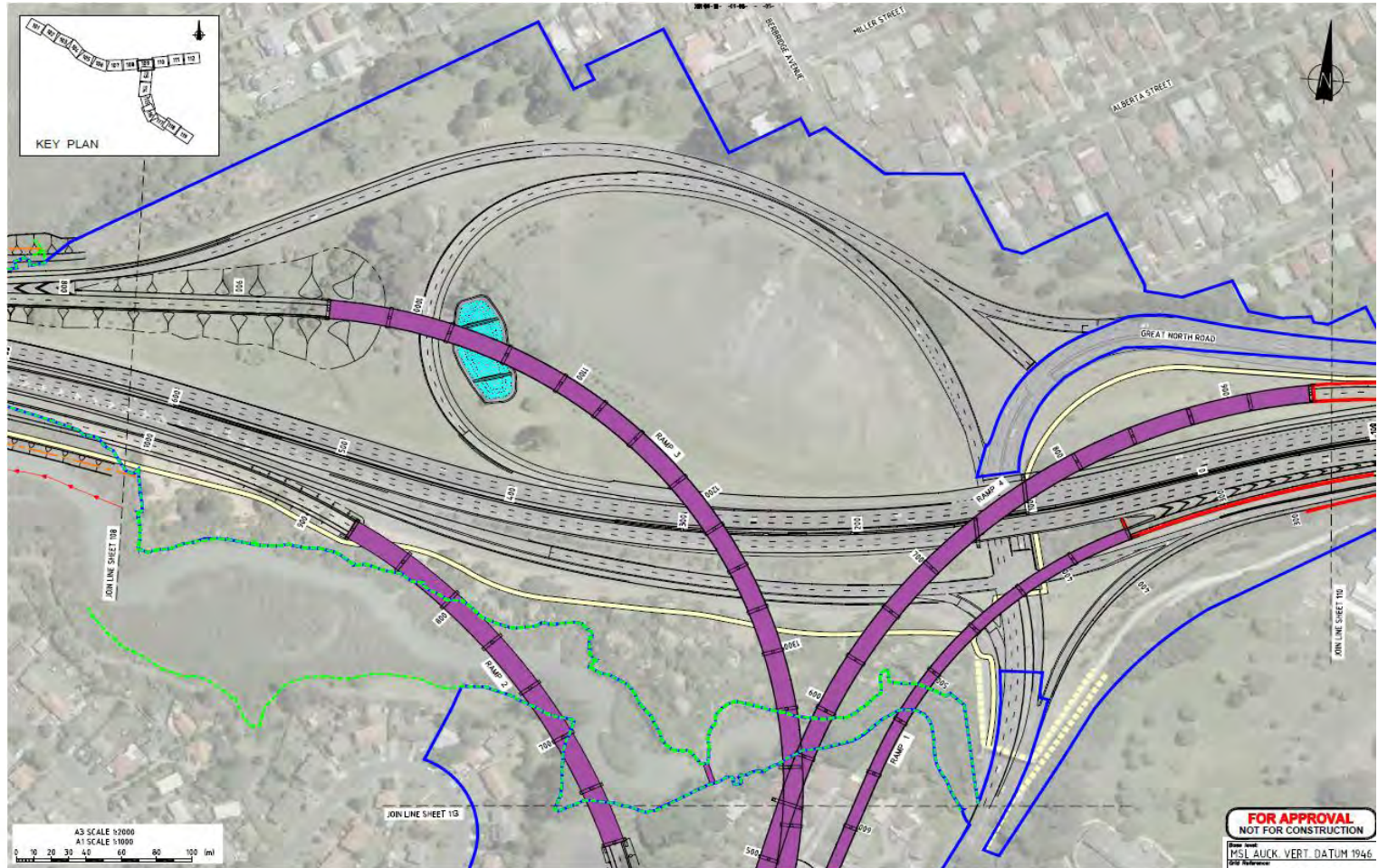
Overview, Notices of Requirements and Consent Applications  
Waterview Connection

For SH20, between Great North Road Interchange (with SH16) and Maoro Street Interchange, a new State highway alignment will be provided over a length of approximately 5km and capacity for up to three traffic lanes in each direction. The following key elements of work will be undertaken:

- A new interchange will be built at the 'Great North Road Interchange' to provide motorway-to-motorway connections between SH16 and SH20 (both west and east bound movements) (Sector 5);
- At the Great North Road Interchange, the existing connections between Great North Road and SH16 will be maintained (Sector 5);
- Realignment but retention of the Northwestern Cycleway through the Great North Road Interchange (Sector 5);
- The Project provides capacity for up to three traffic lanes in each direction on SH20, separated by either central median barrier or separate tunnel construction;
- A cycleway extension to the existing 'SH20 Cycleway' (that terminates at the Maoro Street Interchange) will be provided adjoining the carriageway where the motorway is at-grade (Sector 9);
- From the Great North Road Interchange, the alignment will comprise two cut-cover tunnels beneath Great North Road transitioning to the two open-face excavation tunnels ('deep tunnels') (Sector 7);
- The construction of the two deep tunnels (one in each direction) from the cut-cover tunnel beneath Great North Road through to the Alan Wood Reserve (Sector 8);
- From the Alan Wood Reserve and the deep tunnels, the Project is 'at-surface' over a length of around 1km to Richardson Road, to connect to SH20 at the Maoro Street Interchange (Sector 9) (total length 1.8km). Through this Sector the carriageway traverses alongside and across the existing Avondale to Southdown Rail Line Designation;
- Richardson Road will be bridged 'at grade', with the State highway cut beneath and new north facing ramps will be built at the Maoro Street Interchange to provide local traffic access to SH20 (Sector 9); and
- The design of the State highway has not precluded the future Avondale to Southdown Rail Line and has maintained a land corridor of sufficient width (e.g. for double track with electrification), from the Maoro Street Interchange to the southern tunnel portal in Alan Wood Reserve (Sector 9).

Status Final Assessment of Environmental Effects August 2010  
Document Reference No. 20.1.11-3-R-N-1024 Page 0.6

# Project Overview - Great North Road Interchange





# Northwestern Cycleway / Great North Road

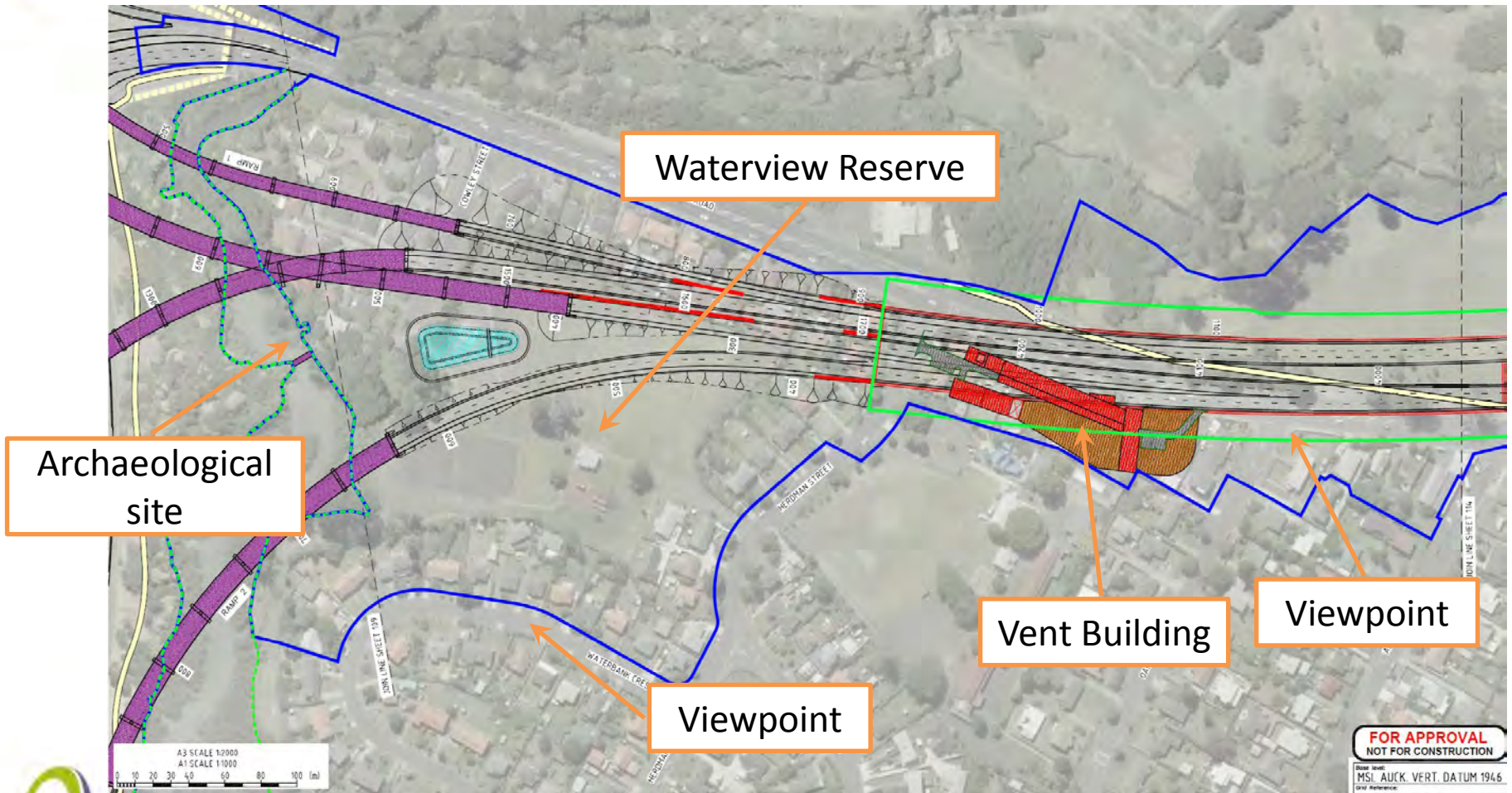


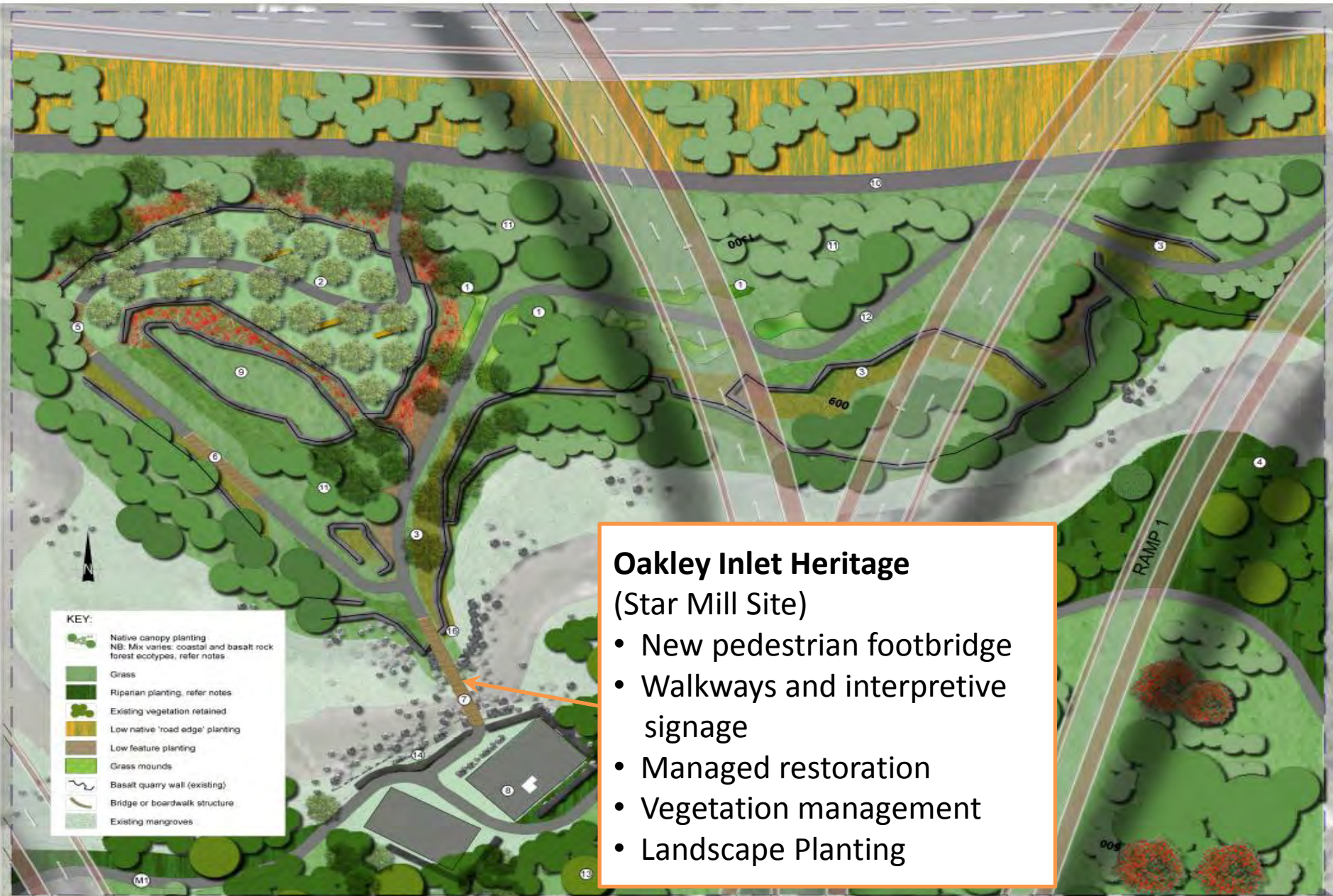


Existing View



# Project Overview – Tunnel Portal





**KEY:**

	Native canopy planting NB: Mix varies: coastal and basalt rock forest ecotypes, refer notes
	Grass
	Riparian planting, refer notes
	Existing vegetation retained
	Low native 'road edge' planting
	Low feature planting
	Grass mounds
	Basalt quarry wall (existing)
	Bridge or boardwalk structure
	Existing mangroves

**Oakley Inlet Heritage  
(Star Mill Site)**

- New pedestrian footbridge
- Walkways and interpretive signage
- Managed restoration
- Vegetation management
- Landscape Planting

# 10 Waterbank Crescent





Existing View

















## Principles for Open Space Mitigation

- Like for Like' Replacement of Land
- Management Plans to work with Auckland Council
- Replacement of Recreation Facilities
- Temporary replacement during construction



### KEY:

-  Native canopy planting  
NB: Mix varies: coastal and basalt rock forest ecotypes, refer notes
-  Grass
-  Native 'highlight' planting
-  Native amenity planting
-  Existing vegetation retained
-  Riparian planting, refer notes
-  Retaining wall
-  Existing mangroves
-  Construction footprint
-  Adjacent property boundary
-  Transition from ramp abutment to piers
-  Basalt quarry wall (existing)
-  Bridge or boardwalk structure
-  Street trees



## 2 Oakley Avenue, Waterview



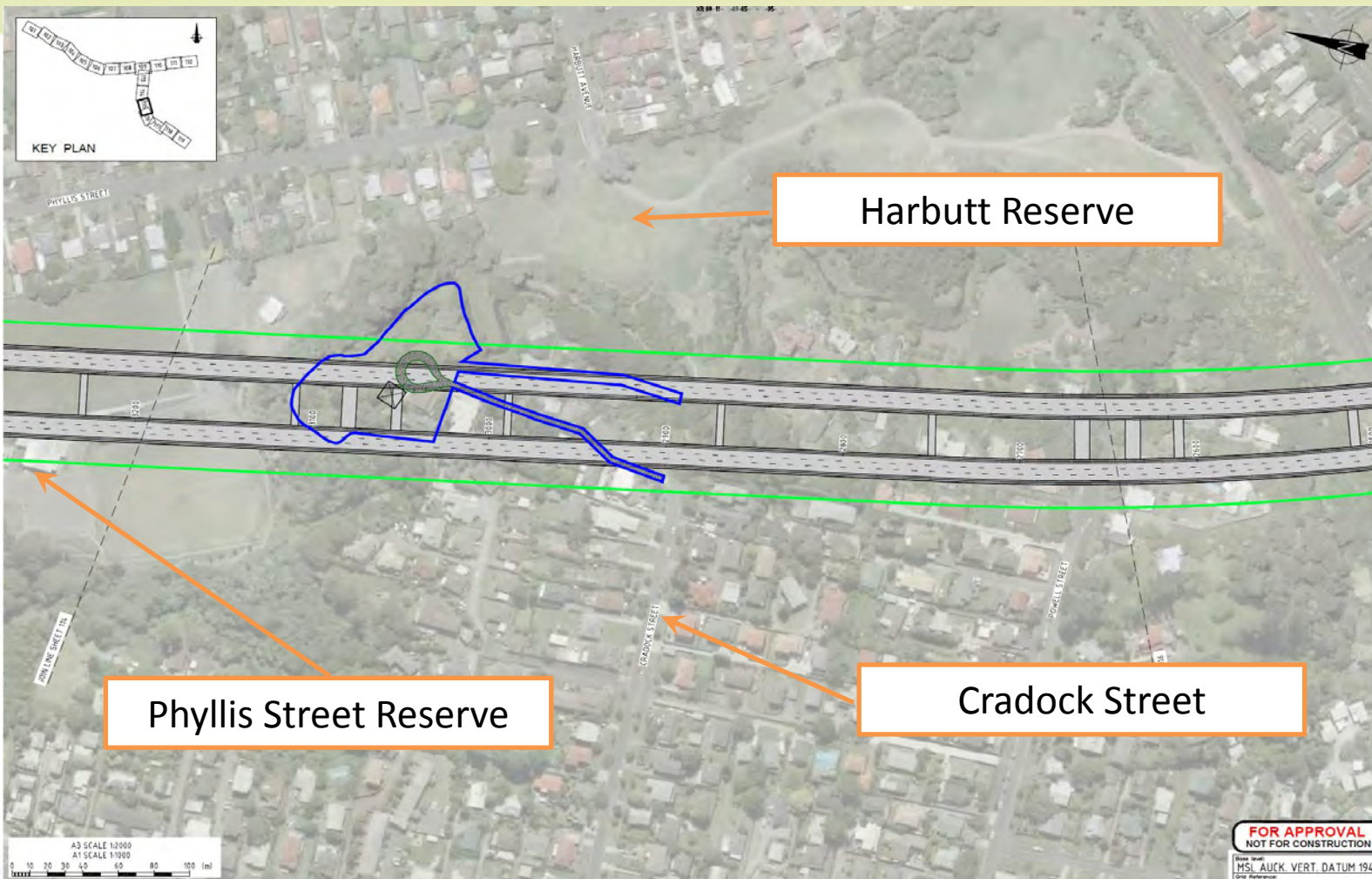


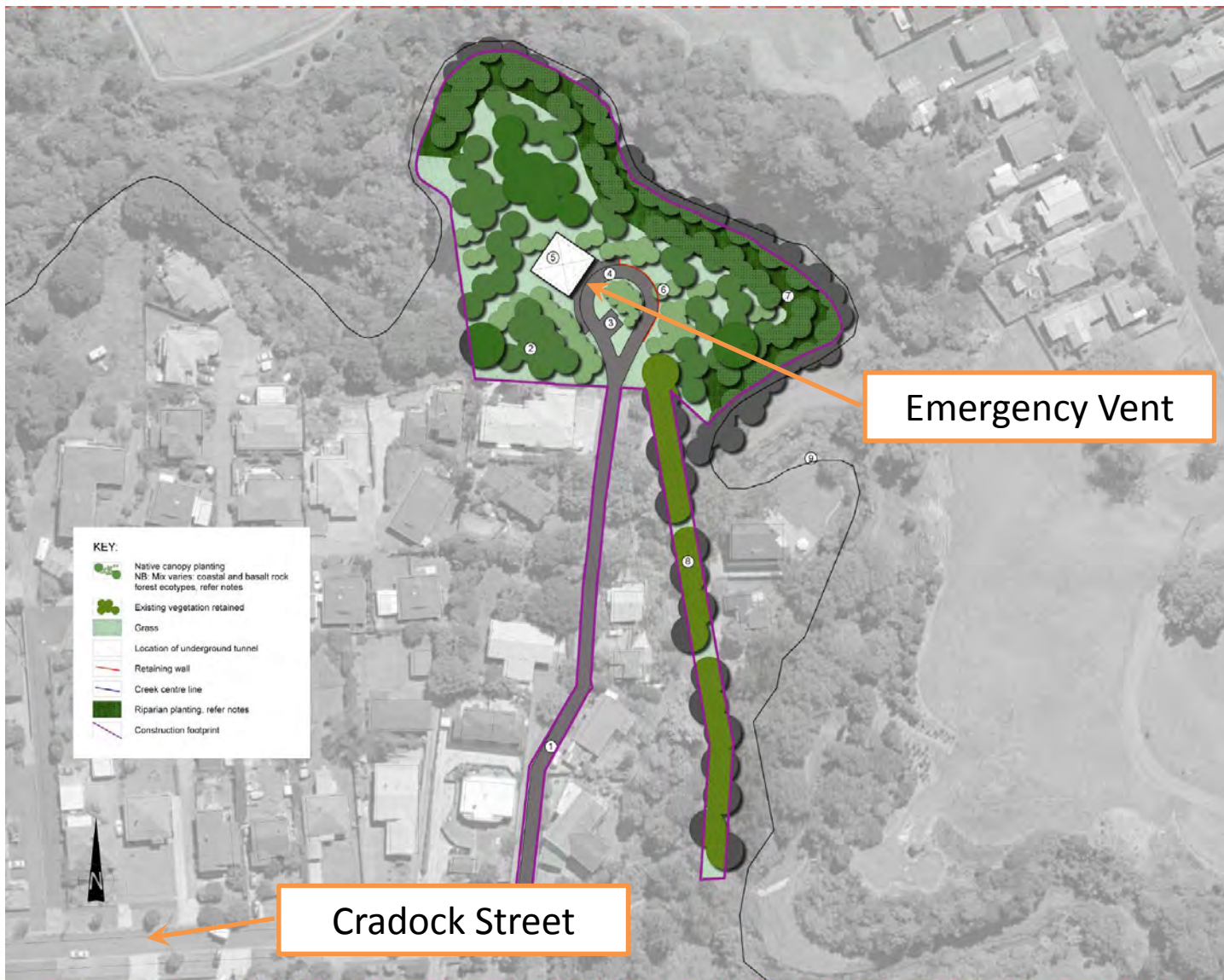
Existing View

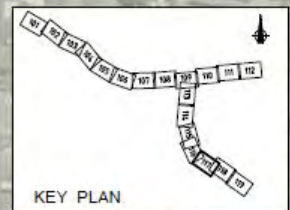




# Emergency Vent







Substrata Designation Defined

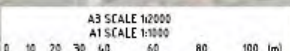
Proposed Designation Defined

Trench to tunnel

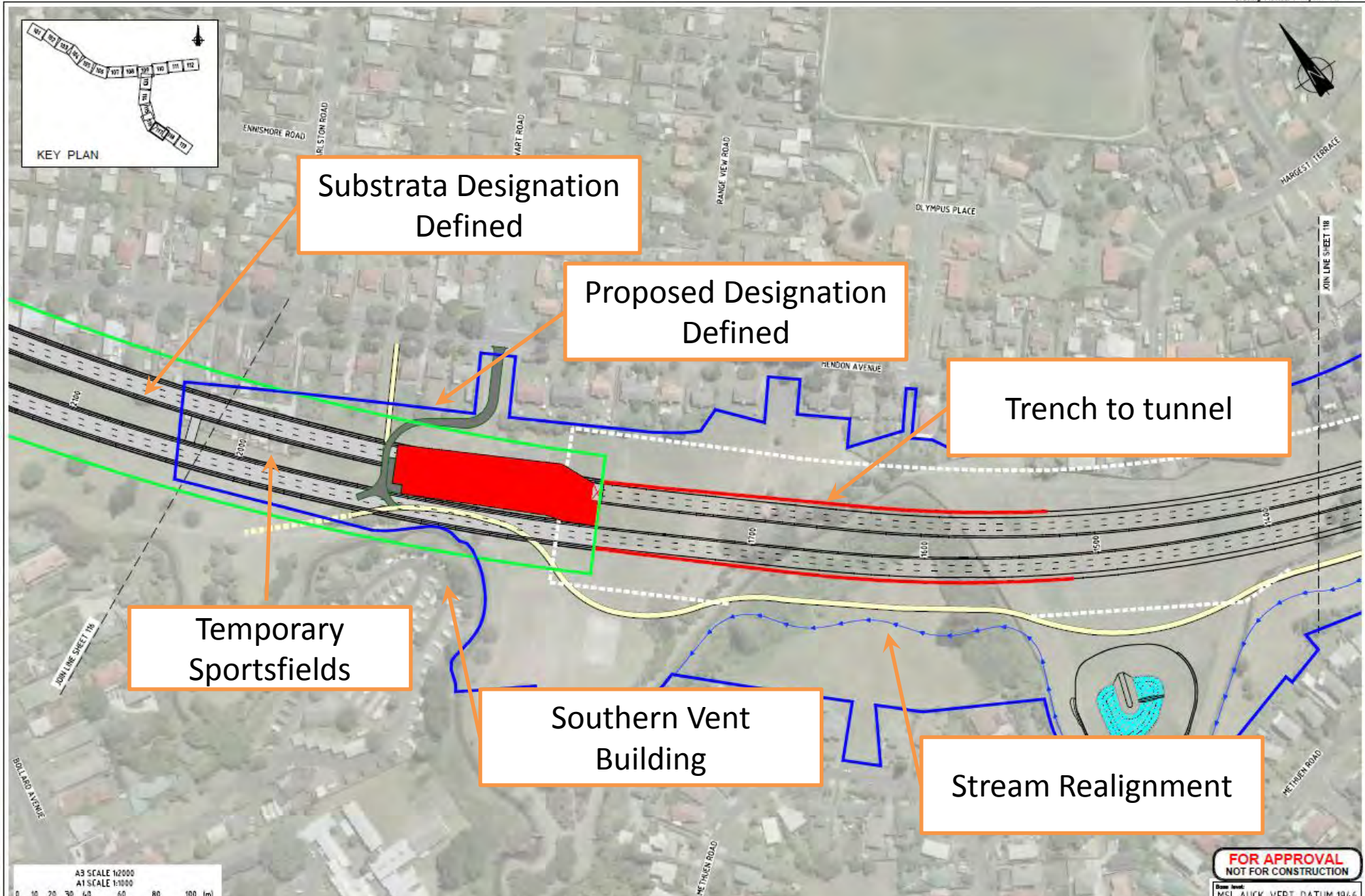
Temporary Sportsfields

Southern Vent Building

Stream Realignment



**FOR APPROVAL**  
NOT FOR CONSTRUCTION



Temporary Sports fields in designation

Southern Ventilation Building



**KEY:**

	Native canopy planting NB: Mix varies: coastal and basalt rock forest ecotypes, refer notes
	Riparian planting, refer notes
	Grass
	Specimen planting
	Ball netting
	Existing vegetation retained
	Proposed future rail corridor
	Creek centre line
	SH20 portal safety rail
	Safety fencing
	Construction footprint
	Adjacent property boundary
	Central median paving (tbc)
	Open space severed by project, refer notes



Stuart Road / Alan Wood Reserve Parking

Avondale Motor Camp





Existing View



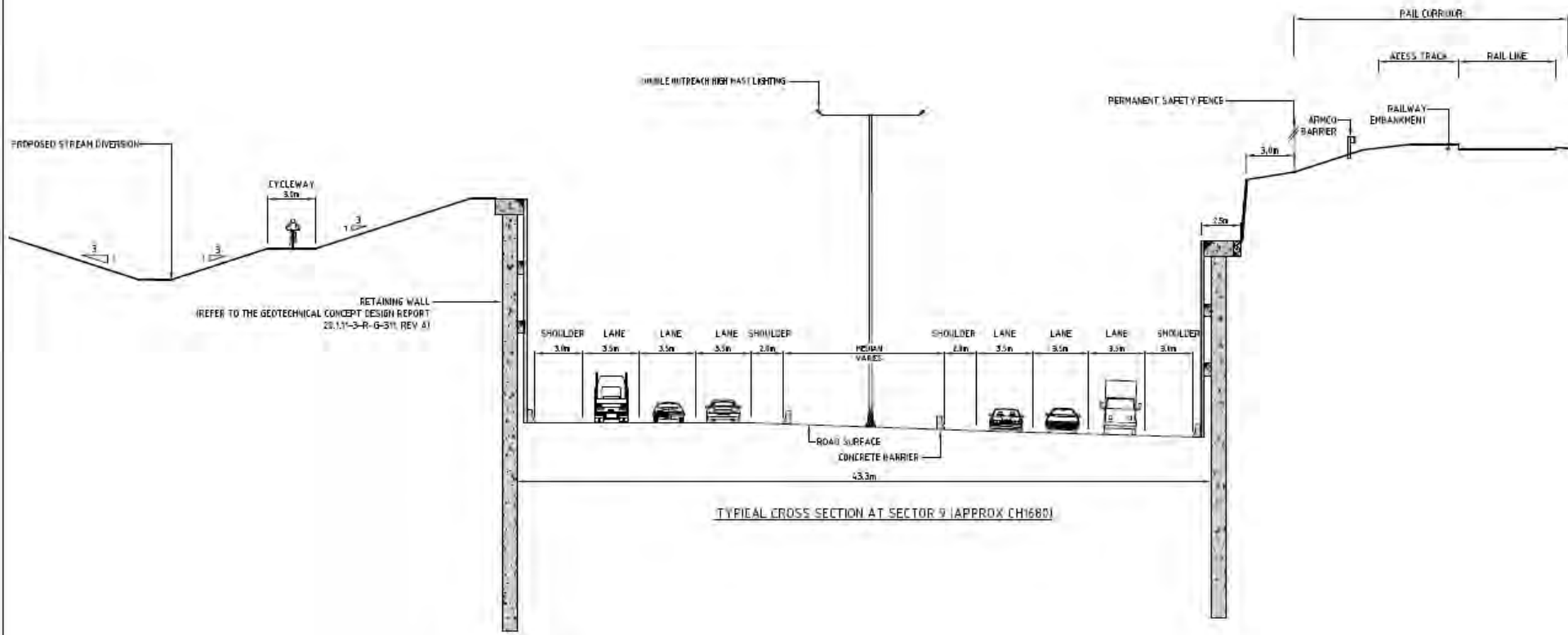
NZ TRANSPORT AGENCY  
WAKA KOTAHI

New Zealand Government

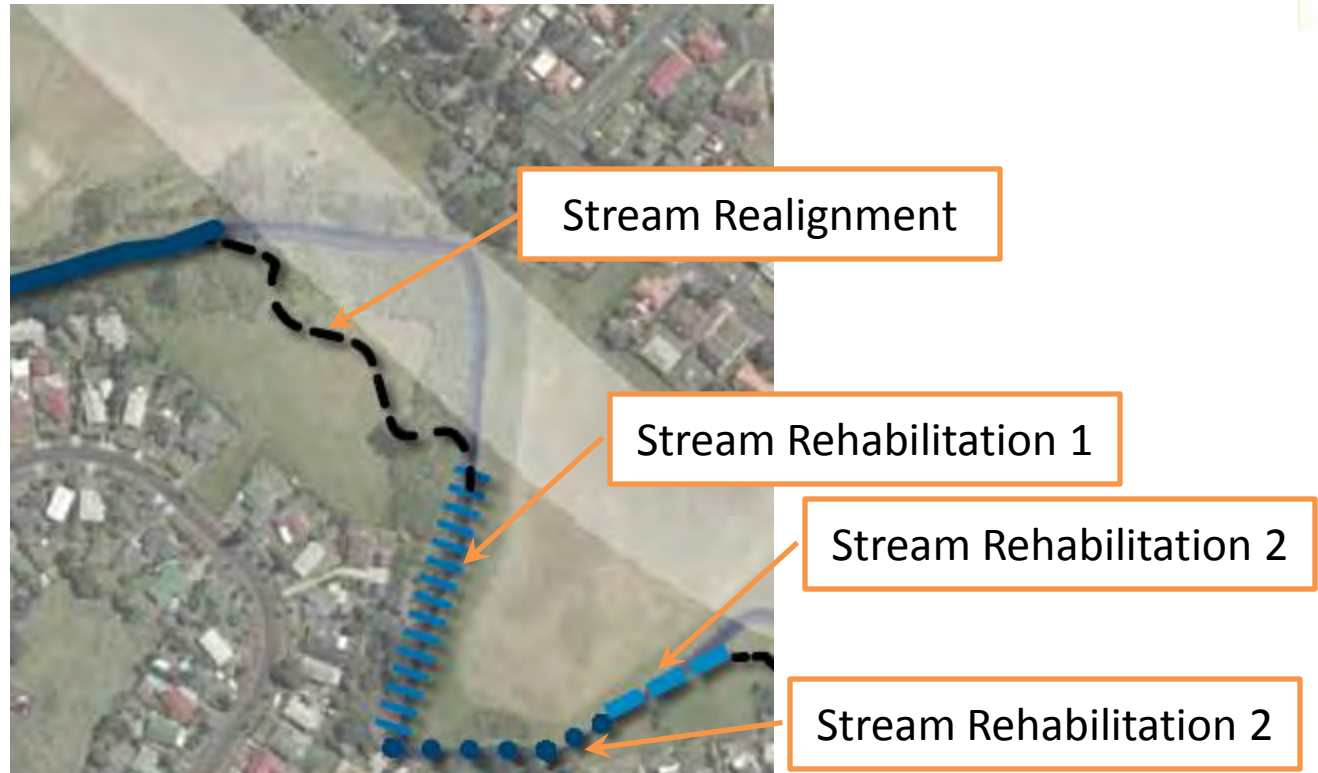
LEGEND

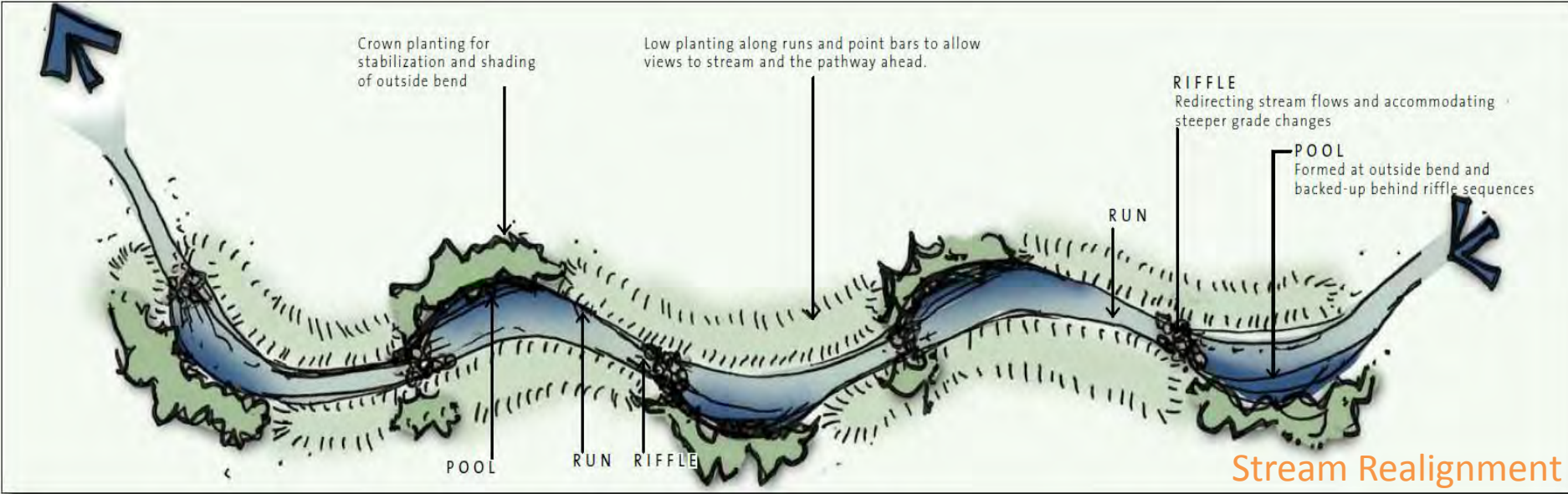
----- EXISTING LEVEL

----- DESIGN LEVEL

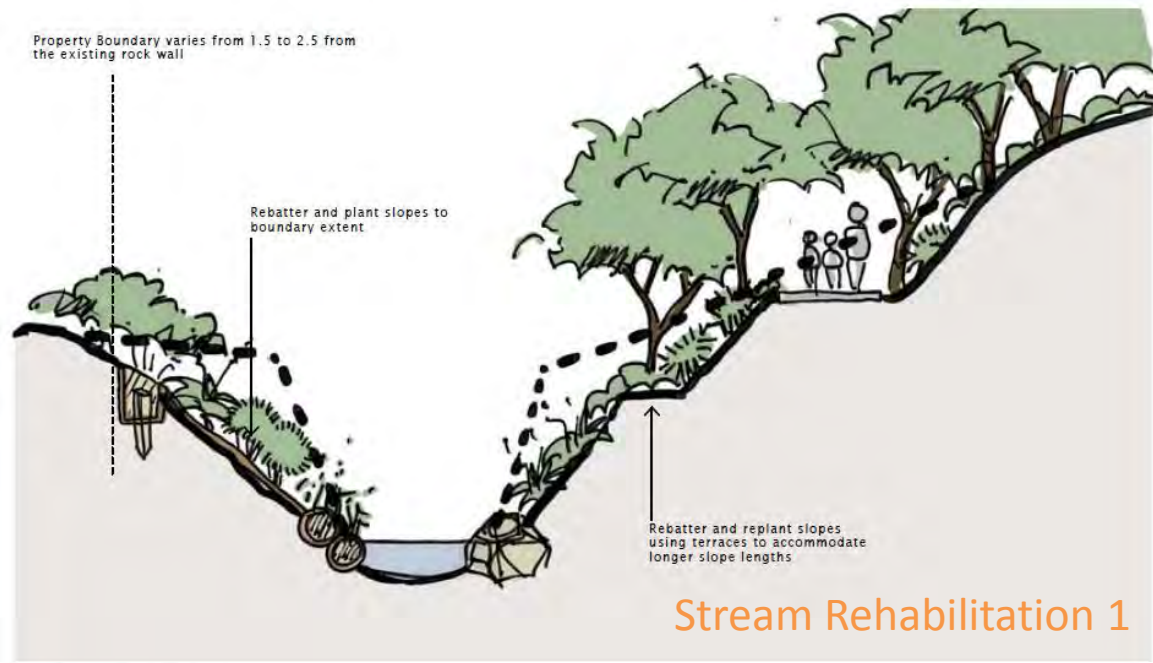


TYPICAL CROSS SECTION AT SECTOR 9 (APPROX CH1680)





Stream Realignment



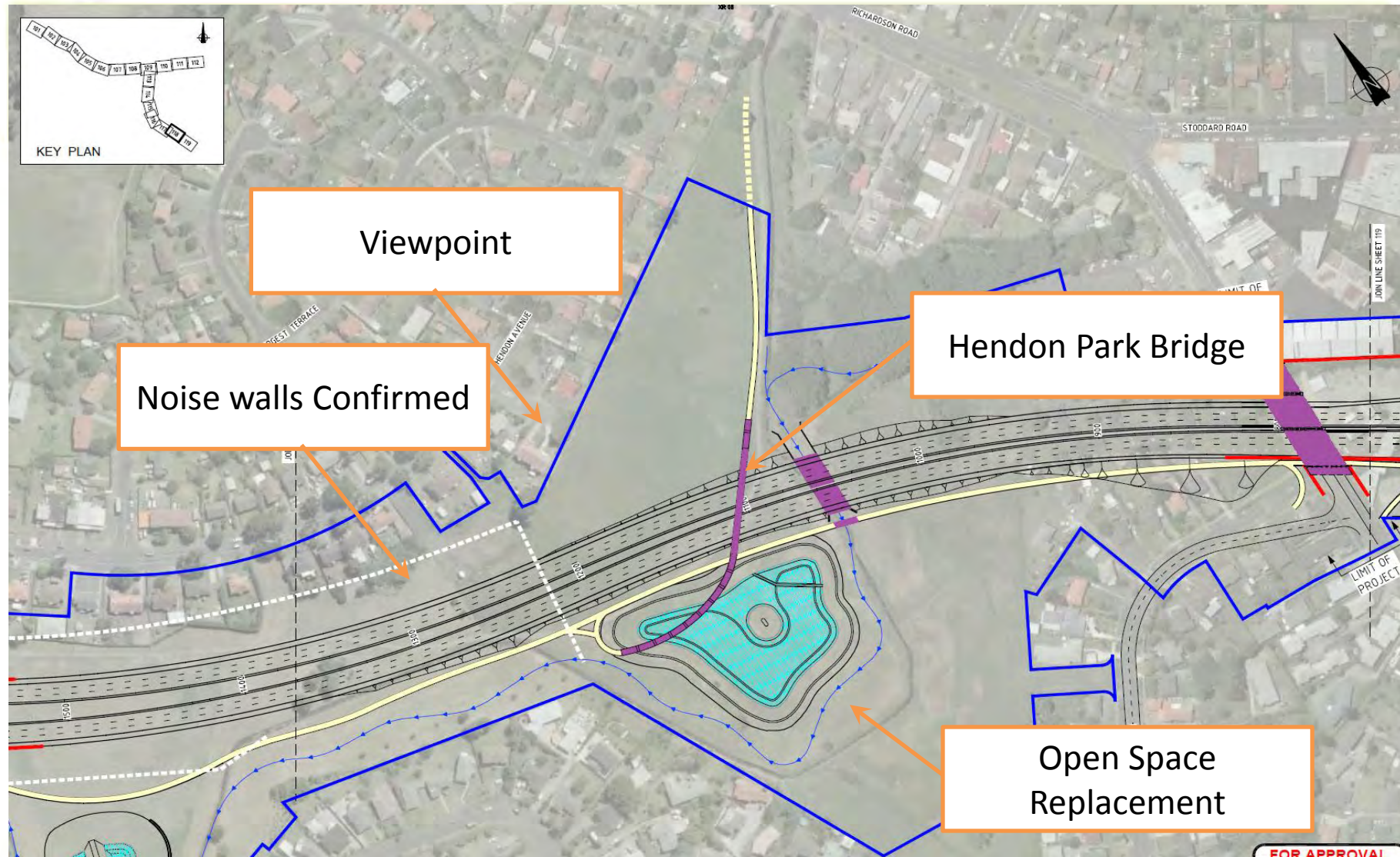
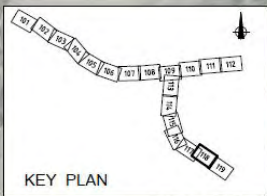
Stream Rehabilitation 1

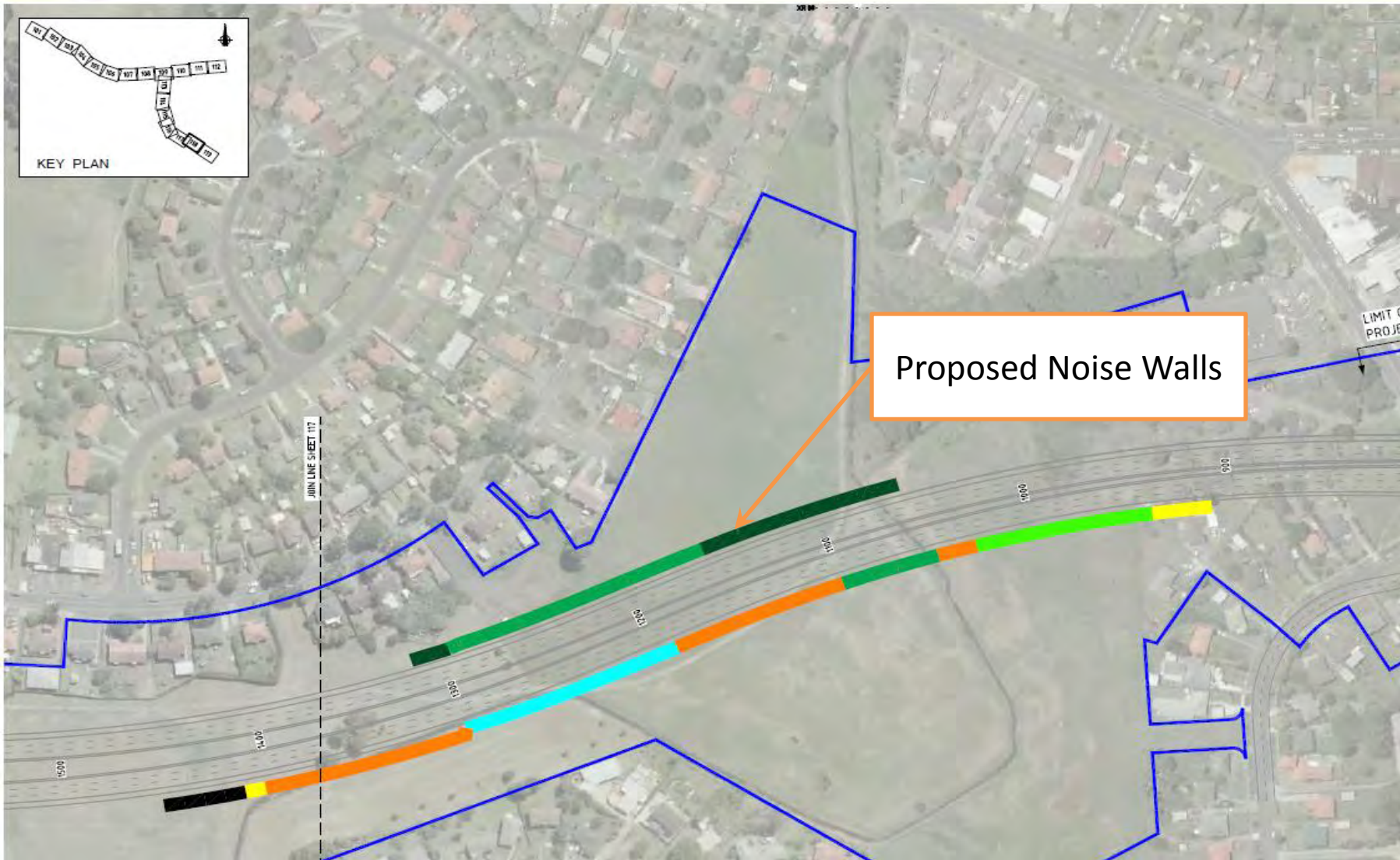
Stream Rehabilitation 2



Stream Rehabilitation 3







Barrymore Road

Methuen Road





Roads of national significance

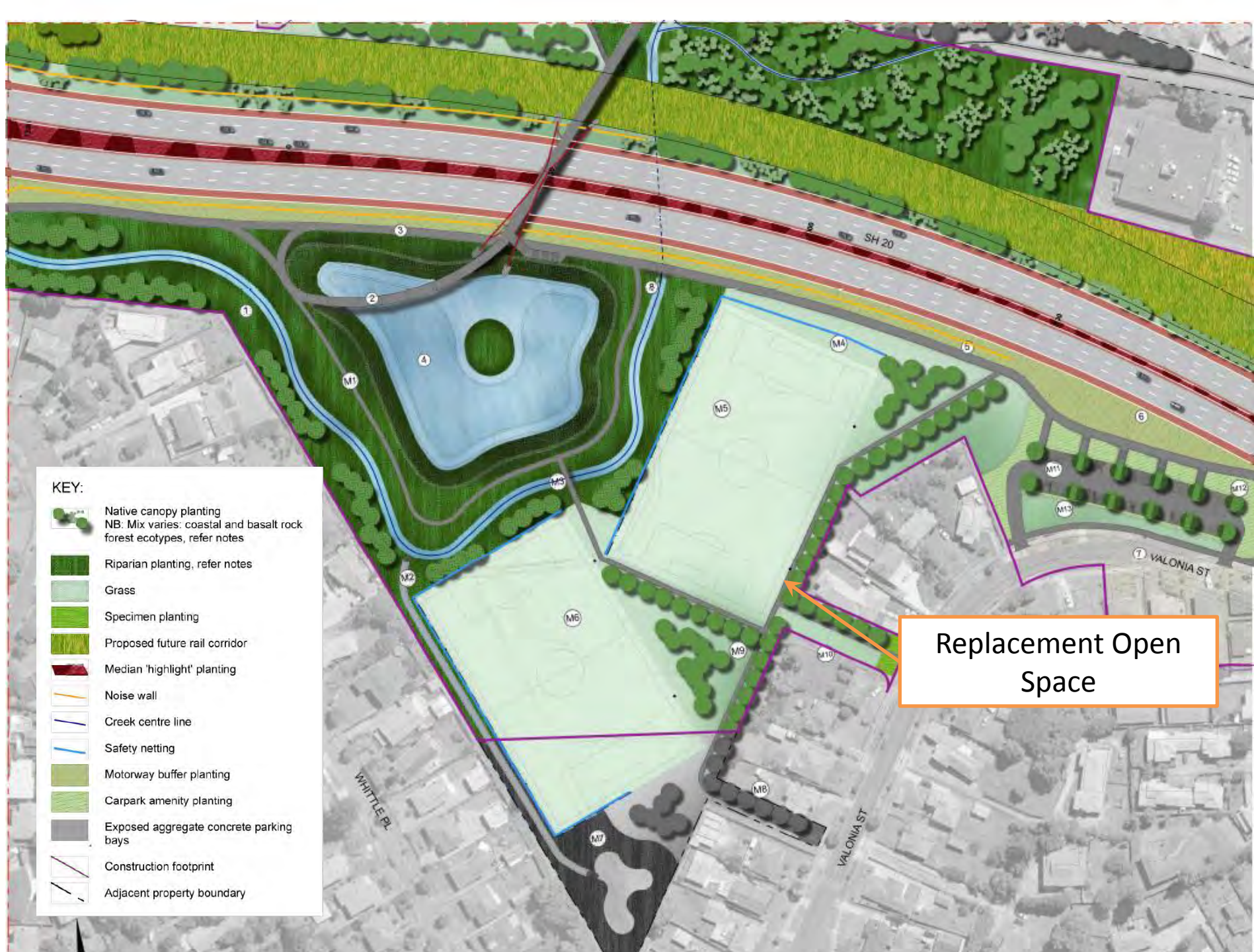


Completing the Western Ring Route










Existing View

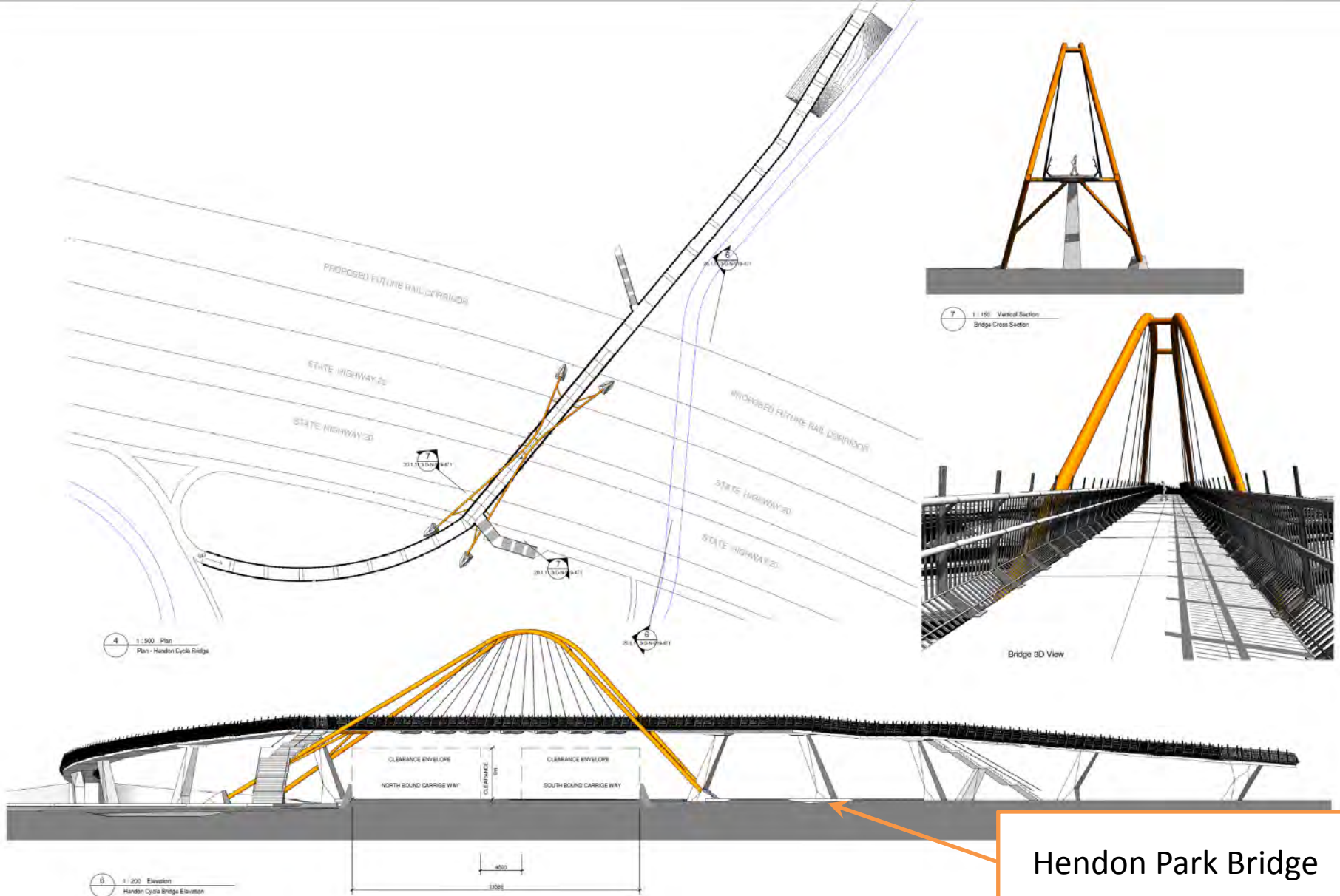




**KEY:**

-  Native canopy planting  
NB: Mix varies: coastal and basalt rock forest ecotypes, refer notes
-  Riparian planting, refer notes
-  Grass
-  Specimen planting
-  Proposed future rail corridor
-  Median 'highlight' planting
-  Noise wall
-  Creek centre line
-  Safety netting
-  Motorway buffer planting
-  Carpark amenity planting
-  Exposed aggregate concrete parking bays
-  Construction footprint
-  Adjacent property boundary

Replacement Open Space



Hendon Park Bridge

## Process from Here

NZTA public presentations

**Tuesday 21 September** – Waterview Methodist Church 7pm – 9pm.

EPA National Consenting Process

Public Meeting 23 September 2010 (Owairaka School)

‘Friend of the Submitter’

Submissions can be made online

Copies of forms available

See [www.epa.govt.nz](http://www.epa.govt.nz)



## EPA Dates

EPA Presentation - 23 Sept. 7-9pm Owairaka School  
'Friend of the Submitter' Meetings

Date	Location	Time
29 September	Owairaka School	5 – 9 pm
02 October	Avondale Library	10am – 2pm
04 October	Waterview School	5 – 9 pm
07 October	Owairaka School	5 – 9 pm
09 October	Te Atatu Library	10am – 2pm
11 October	Pt Chevalier Library	10am – 2pm
12 October	Central Library	10am – 2pm
13 October	Waterview School	5 – 9 pm
14 October	Owairaka School	5 – 9 pm
15 October	Avondale Library	10am – 2pm



# Questions





NZ TRANSPORT AGENCY  
WAKA KOTAHI

## Roads of national significance



Completing the

# Western Ring Route

# Thank You



Existing View



## View from Waterview Primary School