

# design proposal

## placemaking opportunities

The park incorporates three unique and distinctive place-making features, which are suggested as the primary focus for future co-design processes. These are to be further supported by a suite of cultural markers, wayfinding and interpretation elements.

### ○ Bridge

A unique feature bridge spans the stream, with opportunities for distinctive form, incorporated seating, and provision of access to the water.



### ○ Play Fort/Tower

A sculptural and distinctive element that is playful and sculptural sitting prominently on the ridgeline as a destination for children and their families.



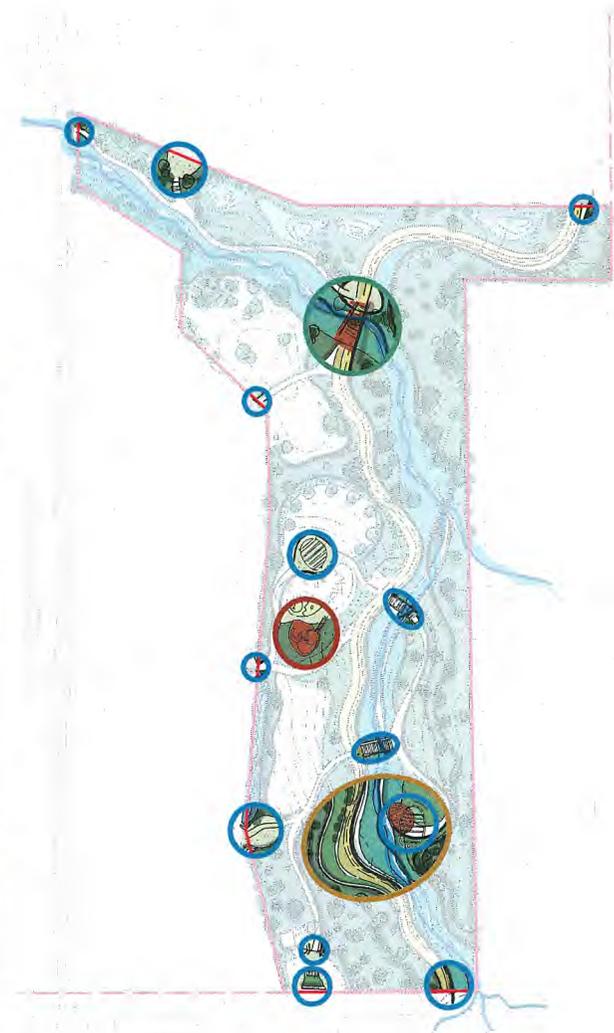
### ○ Sculpture/Platform

Located to the south, a sculpture or platform offers a space for quieter contemplation. Landscape terraces on the opposite bank provide an elevated viewpoint and space for refuge.



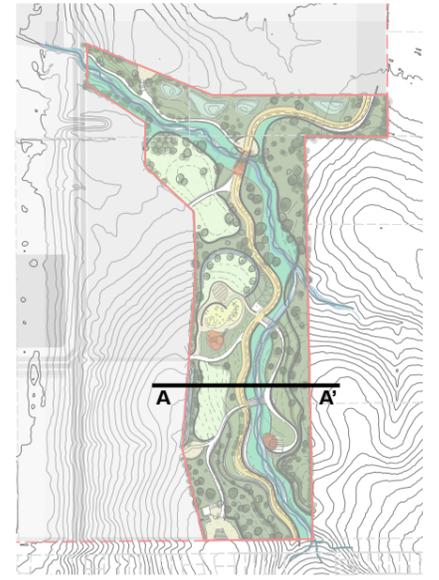
### ○ Po / Waharoa / Cultural Markers / Wayfinding

There are many further opportunities for the integration of additional cultural markers, installations, interpretation panels and wayfinding features throughout the park, including at gateways, thresholds, bridges and shelter points.

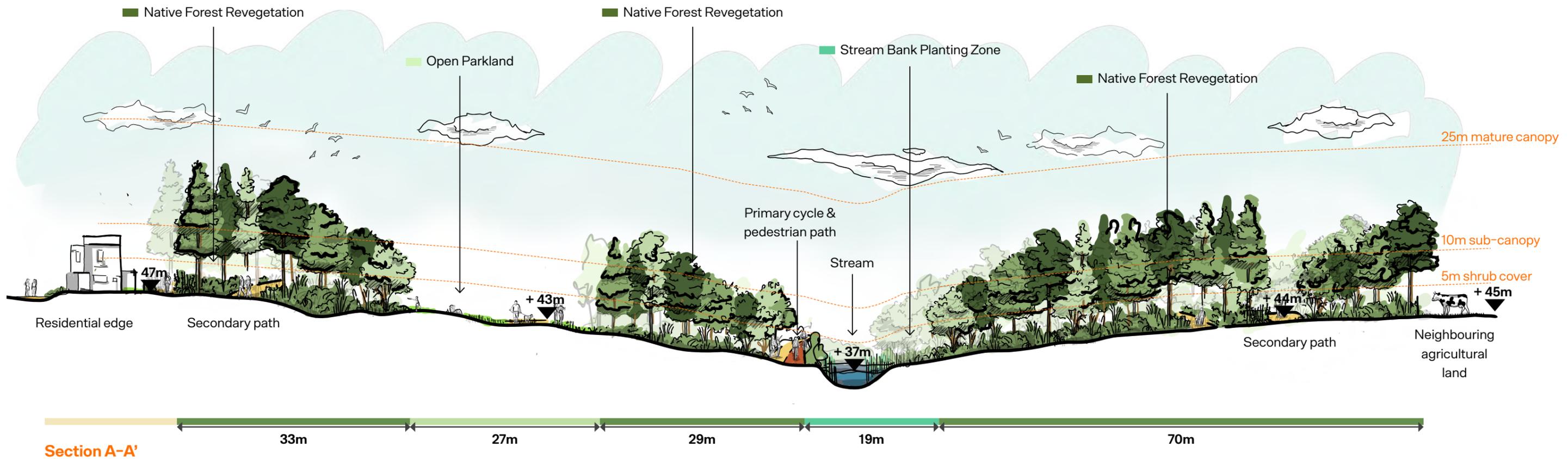


# design proposal

## typical section

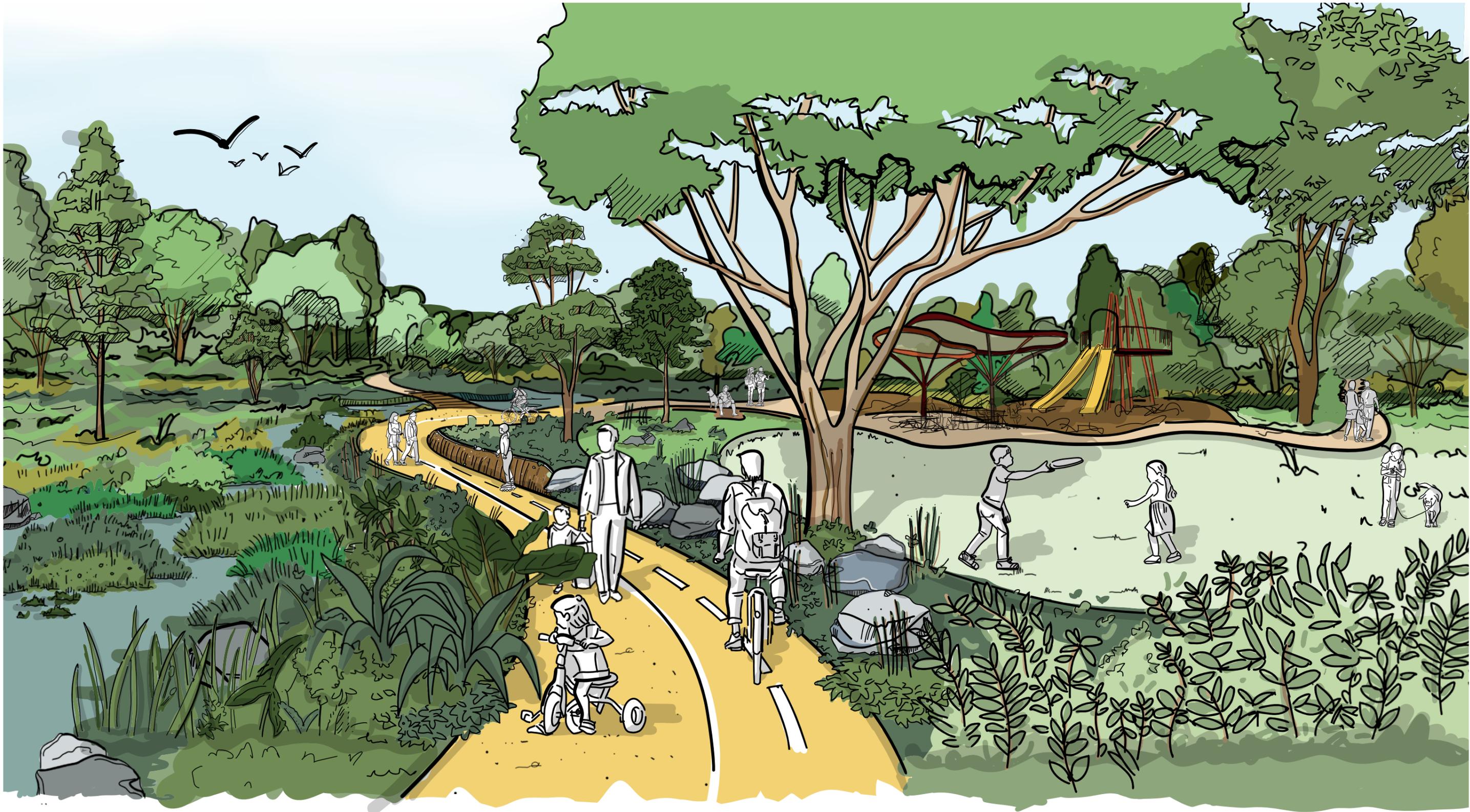


Location Plan



# design proposal

## sketch view



# design proposal

## indicative planting palette

### Planting shall meet the following requirements:

- Species are to originate from the appropriate ecological district (Manakau District)
- All plants are to be eco-sourced
- Species are to be selected to provide habitat for native birds and other wildlife.
- Detailed planting design should ensure species are positioned in optimal locations with suitable site conditions including slope faces (aspect), soil type and drainage.
- Native forest revegetation is to be staged, with initial (hardy trees and shrubs (pioneer/nurse species)), followed by enrichment planting (several years after the initial plantings have established some shelter).
- Planting to take place between the months of April and July.
- All planting areas to include 100mm of aged arbor mulch. Processed wood chips are not acceptable.
- All planting areas shall include a minimum of 300mm topsoil or local peat soil.

### Planting Typologies

#### Riparian Margin

Planting within and immediately adjacent to the stream corridor. To include species appropriate to the permanent water channel, steeper areas (stream banks) with species suitable for erosion control, and the low flats which are likely to be more damp and wet during the winter months.

#### Upper Slopes / Attenuation Areas

Planting suitable for moderately moisture levels in attenuation areas and on the upper slopes of the stream corridor, suitable to steep areas, and primarily lower-growing to allow natural light to pass through to the stream.

#### Mixed Native Amenity Planting

Lower growing, mixed native amenity planting to clearings, and along pathways, ensuring lines of sight are kept clear. To include a mix of grasses, flaxes, shrubs and ground covers with specimen trees.

#### Native Forest Revegetation

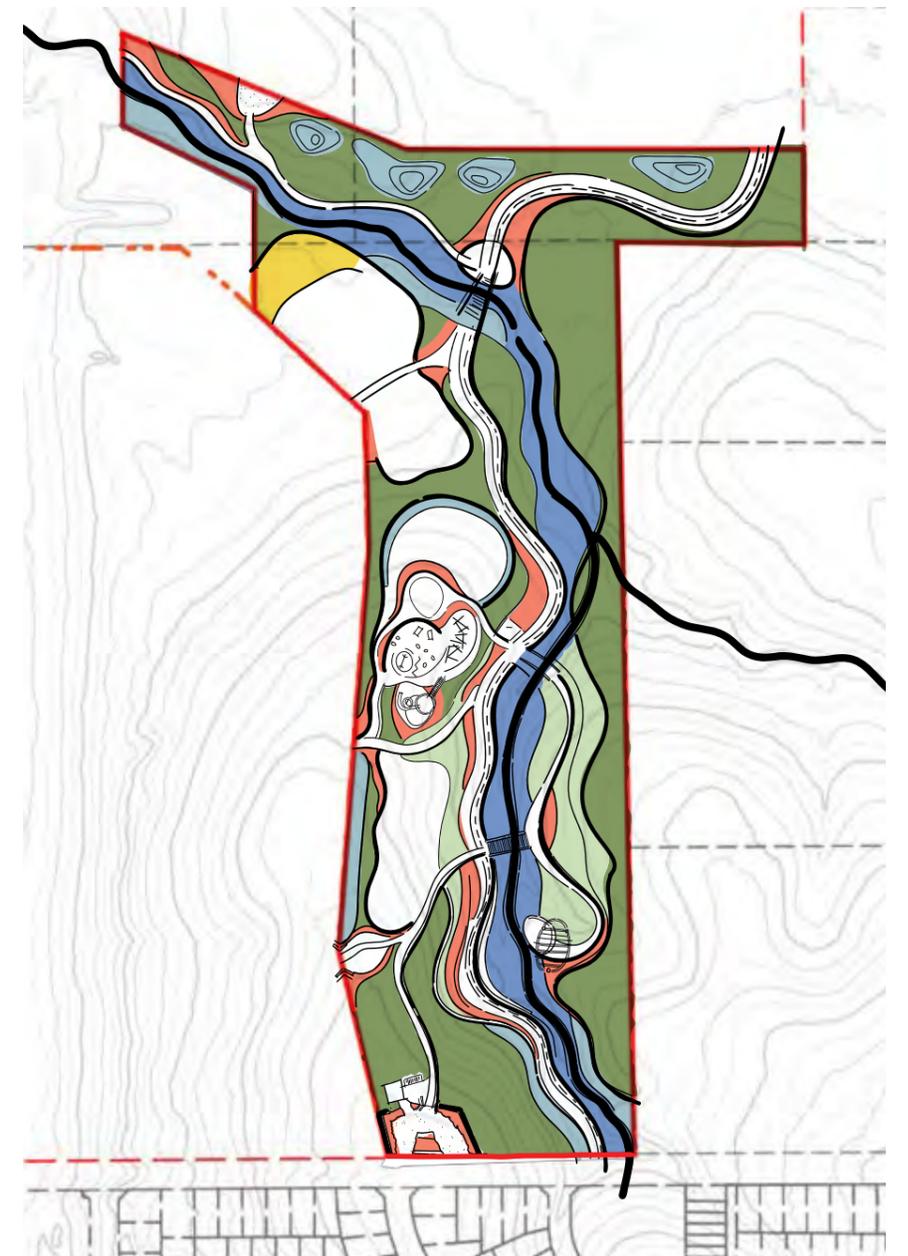
Mixed native forest areas targeting full canopy coverage to majority of the park, including all areas beyond the riparian margin and outside of amenity and recreation areas.

#### Special Areas for Rongoa + Raranga Plants

Feature planting areas to gateways, transitions and along arterial routes featuring culturally significant species, with interpretation panels and labelling to encourage education.

#### Community Orchard

An area of fruit trees adjoining the residential area suitable to be managed and maintained by the community.



# design proposal

## indicative planting palette

### Riparian Margin

#### Permanent Water Channel



*Machaerina articulata*  
baumea



*Machaerina teretifolia*  
baumea



*Schoenoplectus tabernaemontani*  
lake clubrush

#### Stream Banks



*Sporadanthus ferrugineus*  
bamboo rush



*Machaerina juncea*  
baumea



*Machaerina rubiginosa*  
baumea



*Machaerina tenax*  
baumea



*Carex secta*  
pūrei



*Austroderia fulvida*  
toetoe

#### Low Flats



*Machaerina rubiginosa*  
baumea



*Machaerina teretifolia*  
baumea



*Coprosma tenuicaulis*  
swamp coprosma



*Carex dissita*  
flat leaved sedge



*Carex geminata*  
rautahi



*Blechnum novae-zelandiae*  
kiokio

### Upper Slopes / Attenuation Areas



*Gahnia setifolia*  
cutty grass



*Carex virgata*  
pukoi



*Dianella nigra*  
turutu



*Cordyline australis*  
ti kouka



*Pomaderris kumeraho*  
kumarahou



*Leptospermum scoparium*  
manuka



*Austroderia fulvida*  
toetoe



*Coprosma robusta*  
karamu



*Carex geminata*  
rautahi

### Mixed Native Amenity Planting

#### Grasses and sedges



*Gahnia lacera*  
cutty grass



*Carex virgata*  
pukoi



*Phormium cookerianum*  
spp. *hookeri* wharariki / mountain flax



*Liberia grandiflora*  
tukauki



*Gahnia setifolia*  
cutty grass



*Machaerina sinclarii*  
tuhara

#### Shrubs



*Pomaderris kumeraho*  
kumarahou



*Corokia cotoneaster*  
korokio



*Dianella nigra*  
turutu



*Geniostoma ligustrifolium*  
var. *ligustrifolium*  
hangehange



*Macropiper excelsum*  
kawakawa

#### Ground covers



*Lobelia angulata*  
pānakenake



*Coprosma acerosa* 'Hawera'

# design proposal

## indicative planting palette

### Native Forest Revegetation

#### Initial Planting



*Melicytus ramiflorus*  
māhoe



*Beilschmedia tarari*  
taraire



*Myrsine australis*  
māpou



*Hoheria populnea*  
lacebark, houhere



*Cordyline australis*  
cabbage tree, ti kōuka



*Kunzea ericoides*  
kānuka



*Pseudopanax arboreus*  
whauwhaupaku, fivefinger



*Leptospermum scoparium*  
mānuka



*Dacrydium dacrydioides*  
kahikatea



*Sophora microphylla*  
kōwhai

#### Enrichment Planting



*Coprosma grandifolia*  
kanono



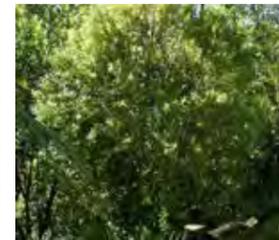
*Dysoxylum spectabile*  
kohekohe



*Elaeocarpus dentatus*  
hinau



*Podocarpus totara* or *P. hallii*  
totara



*Hedycarya arborea*  
pigeonwood



*Alectryon excelsus*  
titoki



*Metrosideros robusta*  
northern rata



*Laurelia novae-zelandiae*  
pukatea



*Prumnopitys ferruginea*  
miro



*Rhopalostylis sapida*  
nikau

### Special Areas for Rongoa + Raranga Plants



*Carex virgata*



*Macropiper excelsum*  
kawakawa



*Coprosma robusta*  
karamu



*Cordyline australis*  
ti kouka



*Cyathea medullaris*  
mamaku



*Cyathea dealbata*  
ponga



*Phormium tenax*  
harakeke

# Appendix

# appendix

## open space context

### Proposed open space context

The proposed Wai Mauri Stream Park will stitch in with and compliment the proposed open space network within the wider masterplan. Its large scale and proposed character as a highly natural, re-vegetated and wooded areas are what characterises it in this context and sets it apart from other open spaces. The extent of Wai Mauri Stream Park allows for meaningful and significant re-vegetation to take place, as well as measures to foster improved water quality. Expanses of open, explorative, recreational landscape are allowed for, including informal activities such as bush walking, dog walking an exercise, as well as formal recreation provisions such as play spaces, community areas and education.



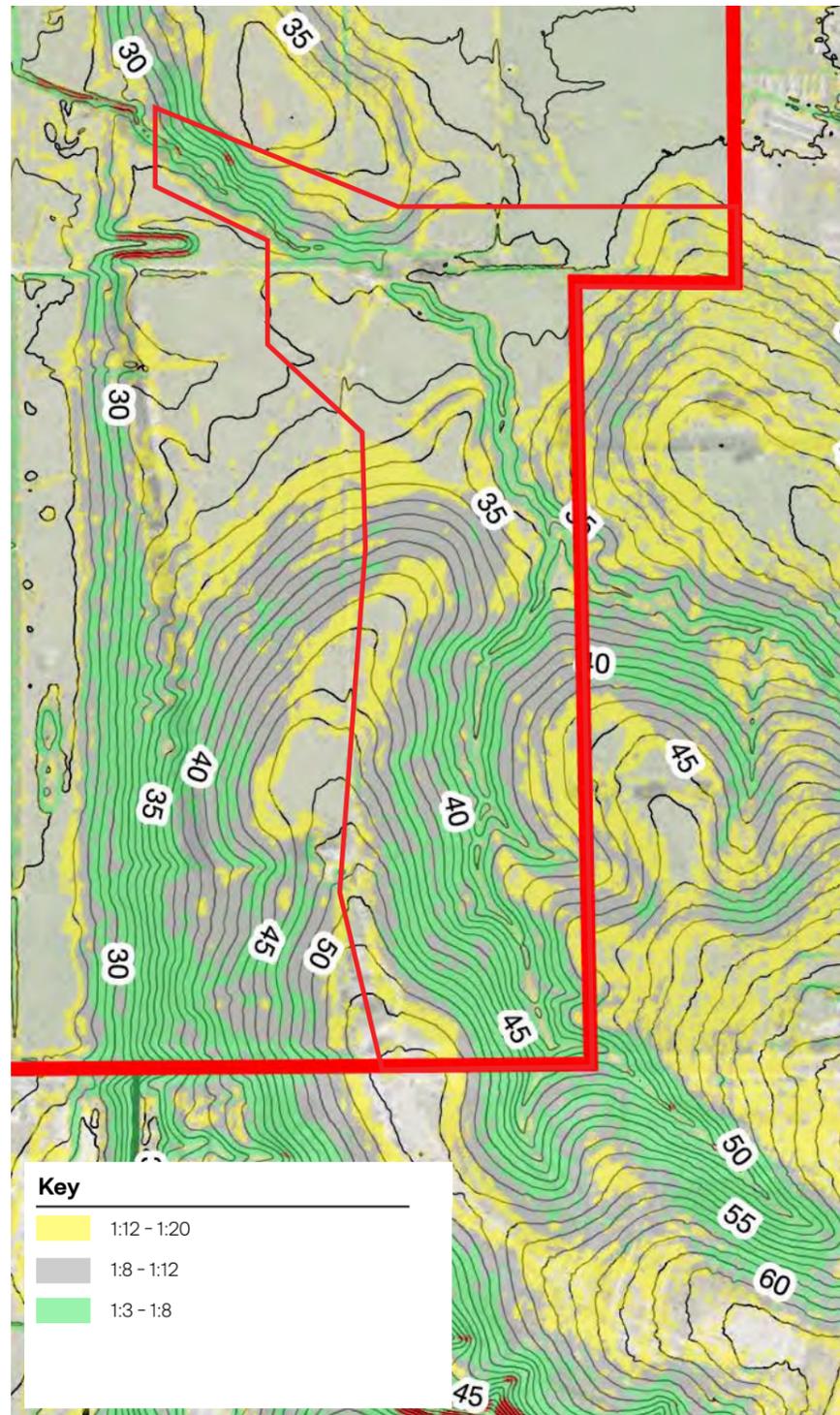
#### Key

- |   |  |
|---|--|
|  Sunfield specified development project boundary |  Wetland park                                     |
|  A series of greenways                           |  Sunfield park                                    |
|  A central stormwater system                     |  Local neighbourhood parks (indicative locations) |
|  A revitalised stream park                       |  |
- Note. A range of neighbourhood parks will be required and will be designed as part of the comprehensive neighbourhoods at a more detailed stage

# appendix

## topography and land uses

### Slope Analysis



The site topography is reflective of the stream corridor which generally runs from the north-west to south-east corner. The highest point of the site is in the south-west corner at Old Wairoa Road, with a ridgeline running south-north between the edge of the park and the proposed residential areas.

There are some steeper sloped areas between 1:8 and 1:3, largely on the lower banks of the stream corridor.

### Land Use Analysis

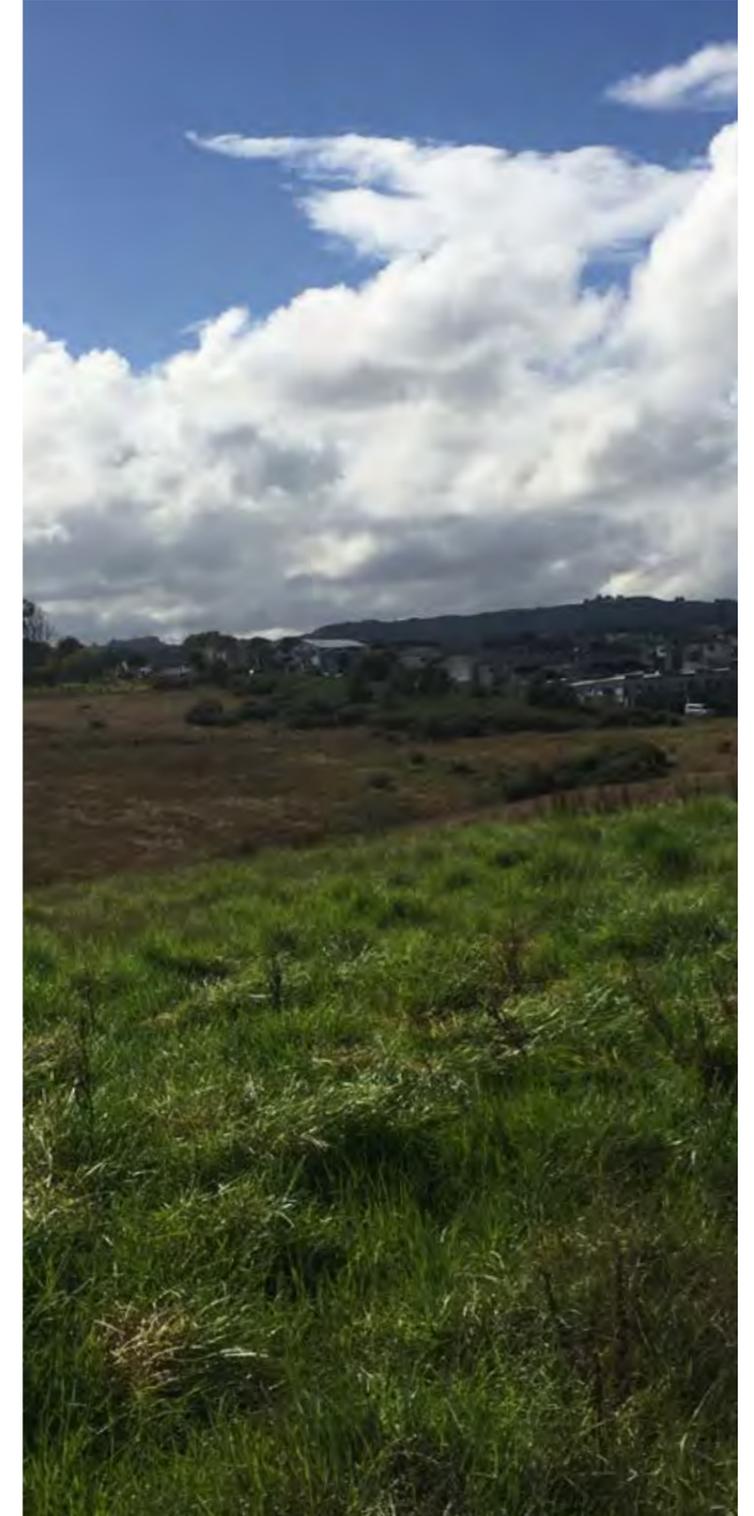


The existing uses neighbouring the site include the residential area to the south of Old Wairoa Road and the existing mixed agricultural area along the eastern boundary. This includes grazed land and shelter belts, a horticultural nursery and an organic farm.

The proposed uses neighbouring the park are residential (including later living) to the west and commercial to the north.

# appendix

## site photos



# appendix

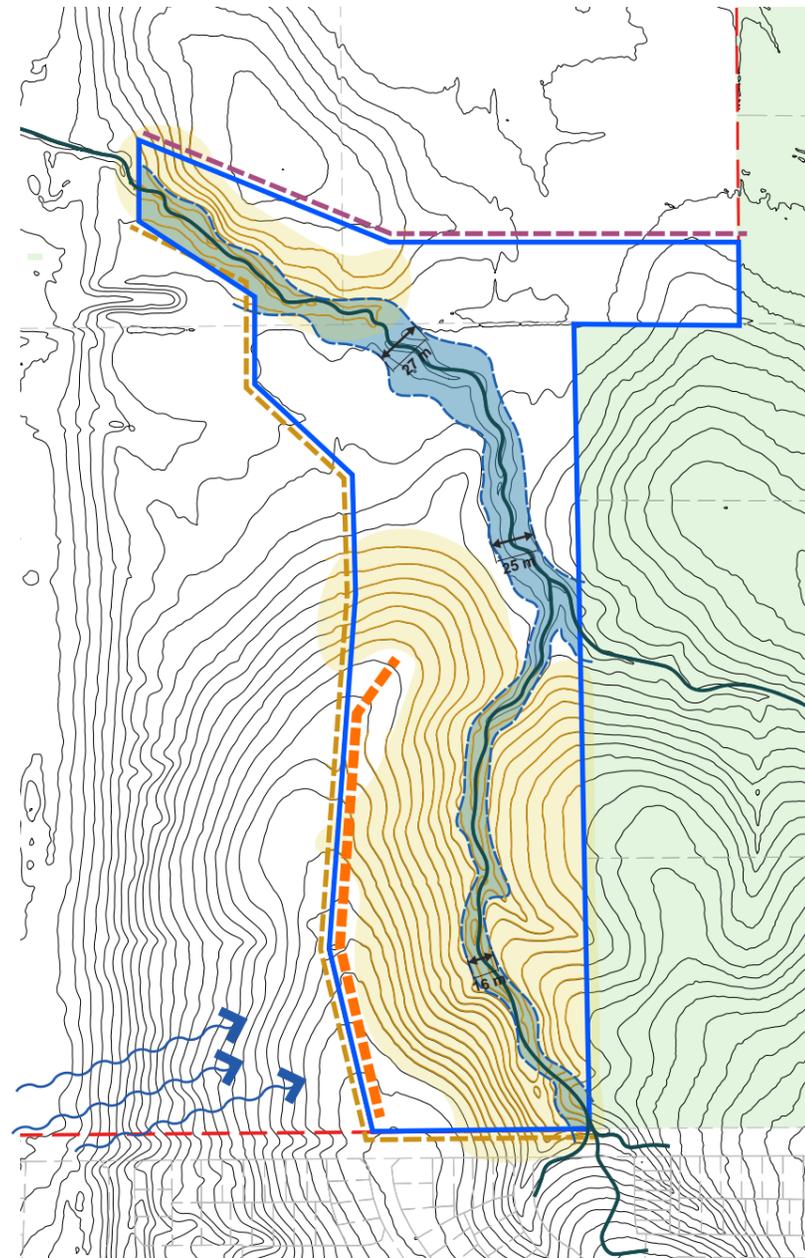
## aerial photos



# appendix

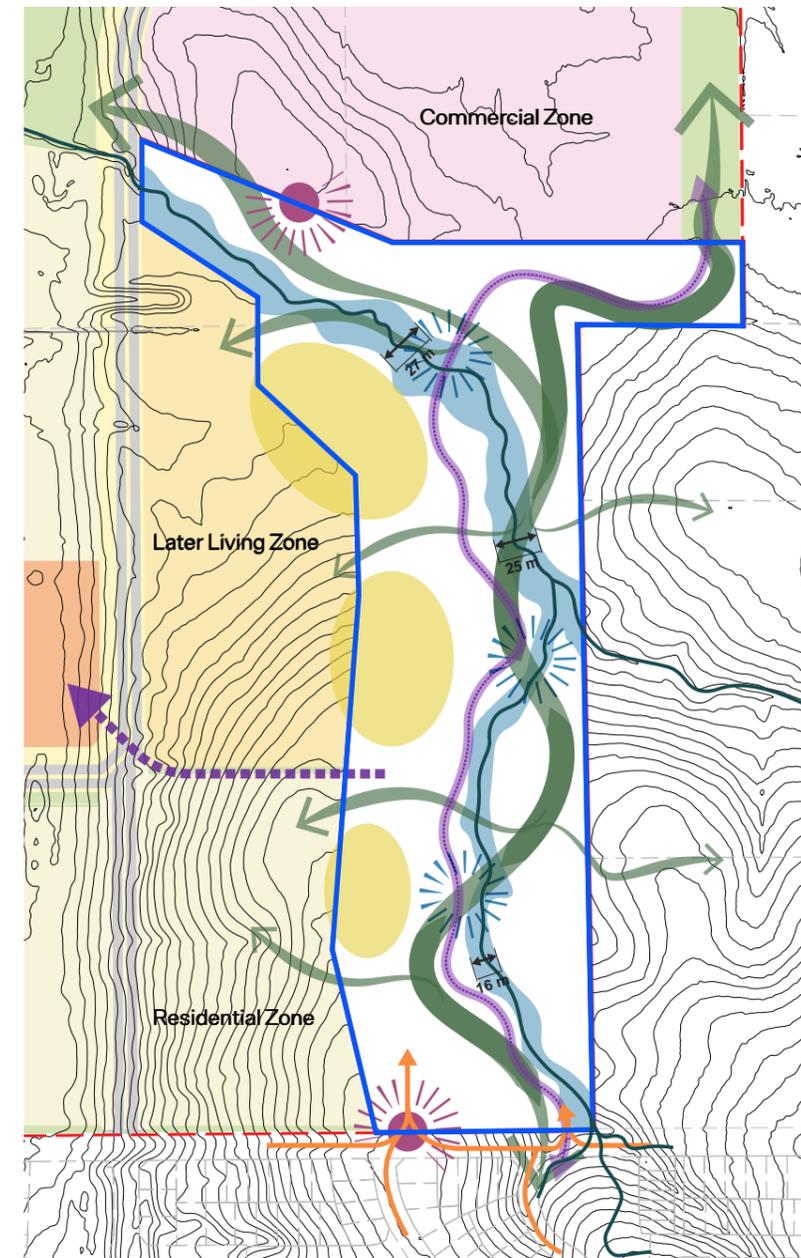
## site constraints and opportunities

### Constraints



- Park extent
- Stream alignment
- Riparian margin
- Neighbouring agricultural land
- Residential edge
- Commercial edge
- Steep topography
- Ridgeline
- Prevailing wind

### Opportunities



- Park extent
- Green infrastructure connections
- Connection to hub + Sunfield loop
- Recreational uses adjacent to living zones
- Primary shared cycle/pedestrian route
- High points / vantage points
- Engagement with water
- Access to park by existing residents south of masterplan

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