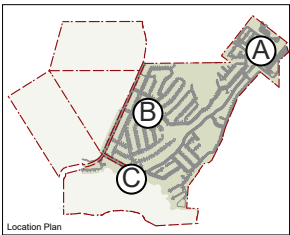


Reserves

Landscape Cross Sections

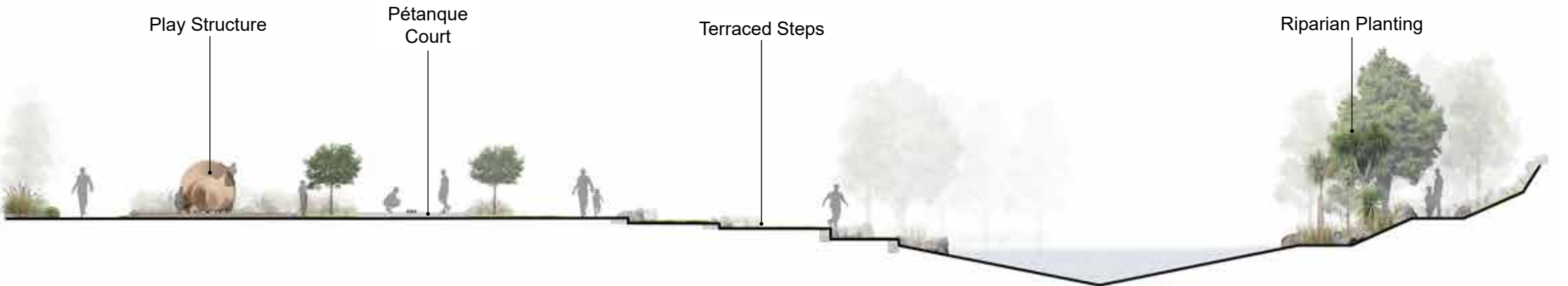
The Ridgeburn reserves have a variety of different uses and topography.



A - Entrance Reserve:

Development edge 30m Morven Ferry road landscape buffer cross section.

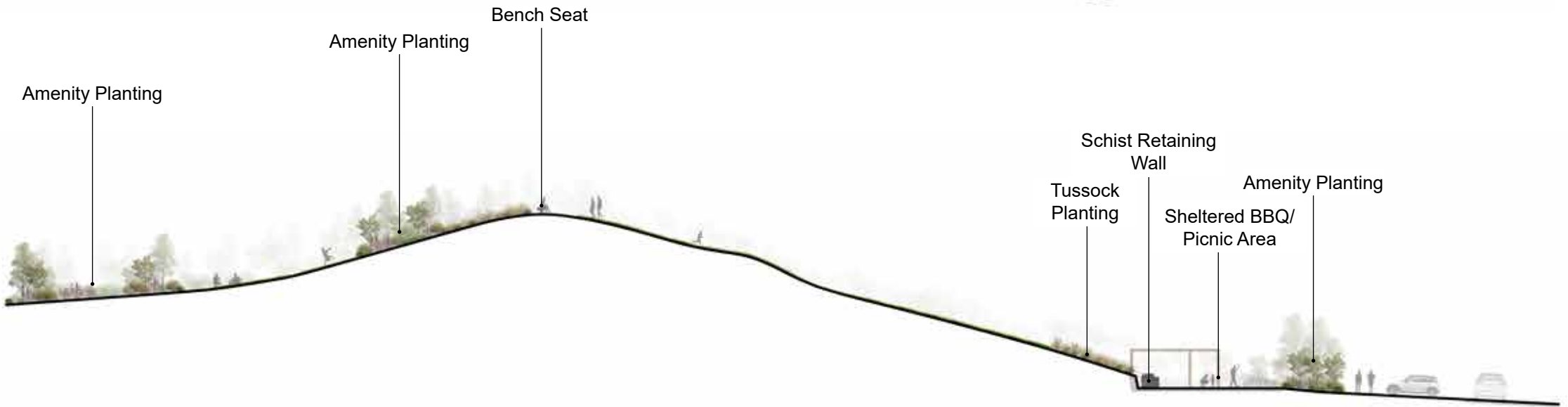
Scale 1: 200 @A3



B - Central Resreve:

Landscape cross section through stormwater, play area and hillside.

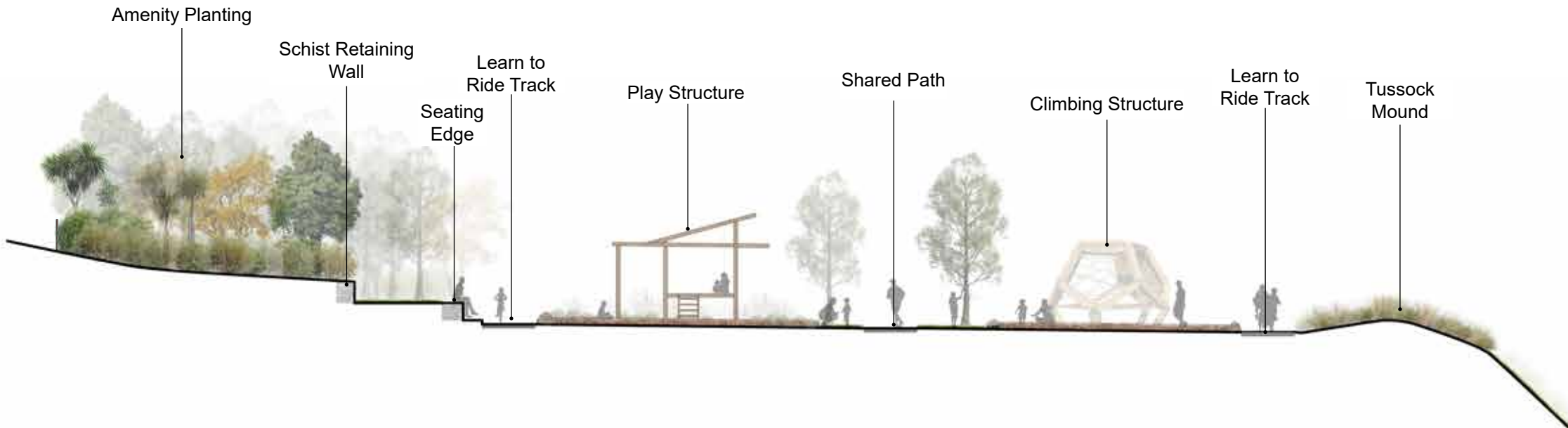
Scale 1: 400 @A3



C - Escarpment Reserve:

Development edge 30m escarpment landscape buffer and reserve cross section.

Scale 1: 200 @A3



Reserves

Community Park Indicative Render by One to One Hundred



Reserves

Quarry Spur Reserve Indicative Render by One to One Hundred



Reserves Materiality

Design Intent

The materials used within the reserves will reflect the natural materials of the Wakatipu basin environment and the rural nature of the area. Materials will include schist, timber, corten steel, and gravel.



Ridgeburn Wayfinding

Design Intent

The signage within Ridgeburn's reserves and streets will reflect the materials found in the Wakatipu basin environment and the rural nature of the area. Materials will include, timber and corten steel.



Reserve Amenity Tree Planting

The amenity tree species will be established throughout the reserves in the open areas of grass. The species have been selected for their seasonal colours and their hardy characteristics to ensure plant success.

TREES



Acer campestre
Field Maple



Acer plantanoides
Norway Maple



Acer rubrum 'Brandywine'
Red Maple



Amelanchier canadensis
NZ Whitebait Tree



Carpinus betulus 'Fastigiata'
European Hornbeam



Cornus 'Eddie's White Wonder'
Flowering Dogwood



Fraxinus excelsior 'Green Glow'
European Ash



Fraxinus sylvatica
European Beech



Liquidambar 'Lane Roberts'
Sweet Gum



Liriodendron tulipifera 'Arnold'
Tulip Tree



Parrotia persica
Persian Ironwood



Platanus x acerifolia 'Pyramidalis'
London Plane



Prunus 'Amanogawa'
Flowering Cherry



Prunus serrulata 'Kanzan'
Japanese Cherry



Pyrus calleryana 'Candelabra'
Callery Pear



Quercus robur
Upright English Oak



Ulmus parvifolia 'Frontier'
Frontier Elm



Ulmus lobel
Elm

Reserve Amenity Planting

The amenity plant species will be established throughout the reserves in areas alongside community nodes. The species have been selected for their hardy characteristics to ensure plant success.

SHRUBS



Pittosporum tenuifolium
Kohuhu



Coprosma acerosa 'Hawera'
Groundcover Coprosma



Coprosma propinqua
Mingimingi



Corokia cotoneaster
Korokio



Phormium tenax 'Purpurea'
Purple Swamp Flax



Hebe hectorii
Hebe



Hebe odora
Boxwood Hebe



Hebe salicifolia
Koromiko



Melicytus alpinus
Porcupine Bush



Olearia lineata
Twiggy Tree Daisy



Carpinus betulus 'Fastigiata'
European Hornbeam



Cornus alba 'Sibirica'
Siberian Dogwood



Corokia 'Bronze King'
Bronze Corokia



Griselinia littoralis
Broadleaf



Prunus lusitanica
Portuguese Laurel

Native Shrubland Reserve Slope Planting

Native shrubland plant species will be established on the slopes of Morven Hill, as well as throughout the reserves on steeper slopes within the site. The species have been selected for their presence in the surrounding Wakatipu Basin and their hardy characteristics to ensure plant success. The chosen species will also provide ecological habitat.

SHRUBS



Coprosma linarifolia
Mikimiki



Coprosma propinqua
Mingimingi



Coprosma rugosa
Mountain Coprosma



Corokia cotoneaster
Korokio



Hebe subalpina
Subalpine Hebe



Olearia hectorii
Hectors Tree Daisy



Olearia odorata
Scented Tree Daisy



Olearia fragrantissima
Small-Leaved Tree Daisy



Olearia paniculata
Golden Ake Ake



Veronica salicifolia
Koromiko

TREES



Cordyline australis
Cabbage Tree



Nothofagus cliffortioides
Mountain Beech



Griselinia littoralis
Broadleaf



Nothofagus solandri
Black Beech



Olearia avicenniifolia
Mountain Ake Ake



Pittosporum tenuifolium
Kōhūhū



Plagianthus regius
Ribbonwood



Podocarpus laetus
Hall's Tōtara



Pseudopanax crassifolius
Lancewood



Sophora microphylla
South Island Kōwhai

Tussock Planting

Tussock plant species will be established on the slopes of Morven Hill, as well as throughout the reserves on steeper slopes within the site. The species have been selected for their presence in the surrounding Wakatipu Basin and their hardy characteristics to ensure plant success. The chosen species will also provide ecological habitat.

SHRUBS



Chionochloa conspicua
Snow Grass



Chionochloa rigida
Snow Tussock



Chionochloa rubra
Red Tussock



Festuca novae-zelandiae
Hard Tussock



Poa cita
Silver Tussock



Anthosachne aprica
Blue Wheat Grass



Poa colensoi
Blue Tussock

Riparian Margin - Upper Bank

Native riparian plant species will be established on the upper banks of existing waterways and wetlands, as well as throughout the reserves on the upper banks of stormwater infrastructure, including swales and retention basins. The species have been selected for their presence in the surrounding Wakatipu Basin and their hardy characteristics to ensure plant success. The chosen species will also provide ecological habitat.

** Indicates species only to be used in wetland A downstream / eastern edge of wetland D*

SHRUBS



Austroderia richardii
Toetoe



Coprosma crassifolia
Mingimingi



Coprosma lucida
Shining Karamū



Coprosma propinqua
Mingimingi



Corokia cotoneaster
Korokio



Discaria toumatou
Matagouri



Hebe cupressoides
Cypress Hebe



Muehlenbeckia astonii
Shrubby Tororaro



Hebe salicifolia
Koromiko



Phormium tenax
Harakeke | NZ Flax

TREES



Dacrycarpus dacrydioides
Kahikatea *



Cordyline australis
Cabbage Tree



Elaeocarpus hookerianus
Pokaka *



Leptospermum scoparium
Mānuka



Melicytus ramiflorus
Māhoe



Nothofagus cliffortioides
Mountain Beech



Nothofagus fusca
Red Beech *



Olearia odorata
Scented Tree Daisy



Pennantia corymbosa
Kaikomako



Plagianthus regius
Ribbonwood

Riparian Margin - Mid Bank

Native riparian plant species will be established on the mid banks of existing waterways and wetlands, as well as throughout the reserves on the mid banks of stormwater infrastructure, including swales and retention basins in areas of temporal inundation. The species have been selected for their presence in the surrounding Wakatipu Basin and their hardy characteristics to ensure plant success. The chosen species will also provide ecological habitat.

** Indicates species only to be used in wetland A and downstream / eastern edge of wetland D*

SHRUBS



Astelia fragrans
Kakaha | Bush Flax



Astelia nervosa
Mountain Astelia



Chionochloa conspicua
Snow Grass



Chionochloa rubra
Red Tussock



Coprosma linariifolia
Mikimiki



Discaria toumatou
Matagouri



Elaeocarpus hookerianus
Pokaka



Griselinia littoralis
Broadleaf



Hebe salicifolia
Koromiko



Juncus edgariae
Wiwi | Edgars Rush

TREES



Aristotelia serrata
Wineberry



Carpodetus serrtaus
Marble Leaf



Cordyline australis
Cabbage Tree



Dacrycarpus dacrydioides
Kahikatea *



Nothofagus solandri
Black Beech *



Olearia lineata
Twiggy Tree Daisy



Syzgium maire
Swamp Maire



Melicytus lanceolatus
Māhoe



Plagianthus regius
Ribbonwood



Prumnopitys taxifolia
Matai | Black Pine *



Sophora microphylla
South Island Kōwhai

Riparian Margin - Stream Edge

Native riparian plant species will be located within 0-2m of the water’s edge of existing waterways and wetlands, as well as throughout the reserves on the edges of stormwater infrastructure, including swales and retention basins in areas of temporal inundation. The species have been selected for their presence in the surrounding Wakatipu Basin and their hardy characteristics to ensure plant success. The chosen species will also provide ecological habitat.



Juncus edgariae
Wiwī | Edgars Rush



Carex virgata
Pukio | Swamp Sedge



Carex secta
Pūrei | Sedge



Carex lessoniana
Rautahi | Cutty Grass



Schoenus pauciflorus
Bog Rush



Phormium tenax
Harakeke | NZ Flax
*Not to be planted in wetland C - refer ecological report



Austroderia richardii
Toetoe

Stormwater/Wastewater Basin Planting

Native plant species will be established within the stormwater infrastructure and wastewater dispersal fields, and in areas of inundation. The species have been selected for their presence in the surrounding Wakatipu Basin and their hardy characteristics to ensure plant success. The chosen species will also provide ecological habitat.



Carex geminata
Rautahi | Cutty Grass



Carex virgata
Pukio | Swamp Sedge



Carex secta
Pūrei | Sedge



Typha orientalis
Raupō | Bullrush



Astelia fragrans
Kakaha | Bush Flax



Carex geminata
Rautahi | Cutty Grass



Juncus pallidus
Wīwī | Giant Rush



Juncus edgariae
Wīwī | Edgars Rush



Machaerina articulata
Jointed Twig Rush



Phormium tenax
Harakeke | NZ Flax

Wetland Revegetation Planting

Wetland revegetation plant species will be established throughout areas of wetlands. The species have been selected for their presence in the surrounding Wakatipu Basin and their hardy characteristics to ensure plant success. The chosen species will also provide ecological habitat.



Carex secta
Pūrei | Sedge



Carex geminata
Rautahi | Cutty Grass



Schoenus pauciflorus
Bog Rush



Olearia bullata
Olearia



Austroderia richardii
Toetoe



Juncus digestus
Two-Tiered Rush



Schoenus maschalinus
Rotokakahi | dwarf bog-rush

Reserves

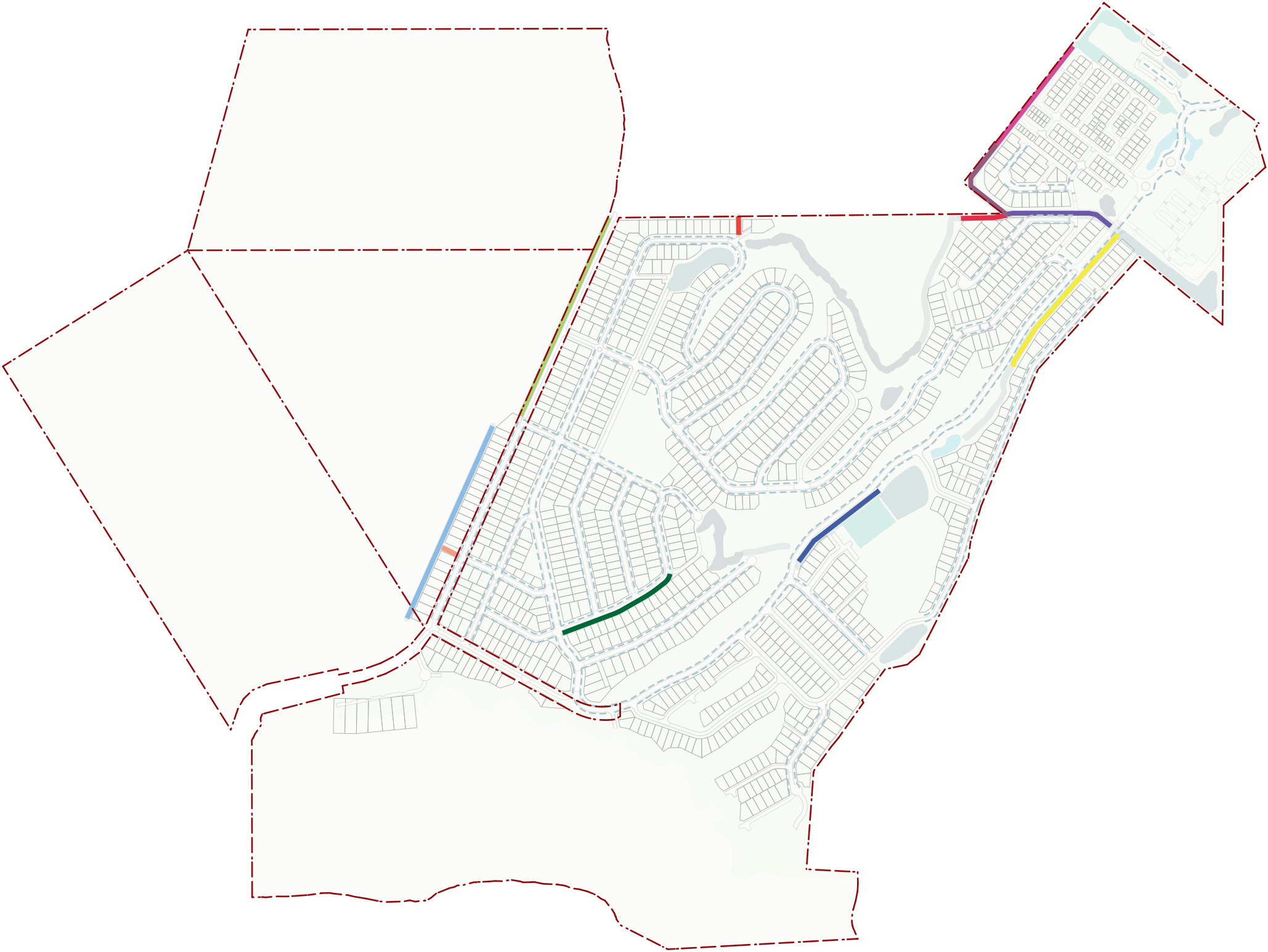
Stormwater Channels and Swales

A series of stormwater channels and swales will be located throughout the development. These channels and swales have been designed to manage high volumes of water in large storm events.

A carefully selected palette of edge planting will provide habitat and shade for when the channels have flowing water, and visually soften these features, seamlessly integrating them into the wider reserve network of the site. A variety of rock sizes will be used to line the channels, providing a more natural appearance and better erosion protection.

Legend	
	Channel 1
	Channel 2
	Channel 3
	Channel 4
	Channel 5 Upstream
	Channel 5 Downstream
	Channel 6
	Channel 7
	Channel 8
	Channel 9
	Channel 10
	Roadside Swales

 Scale 1:7,000 @A3



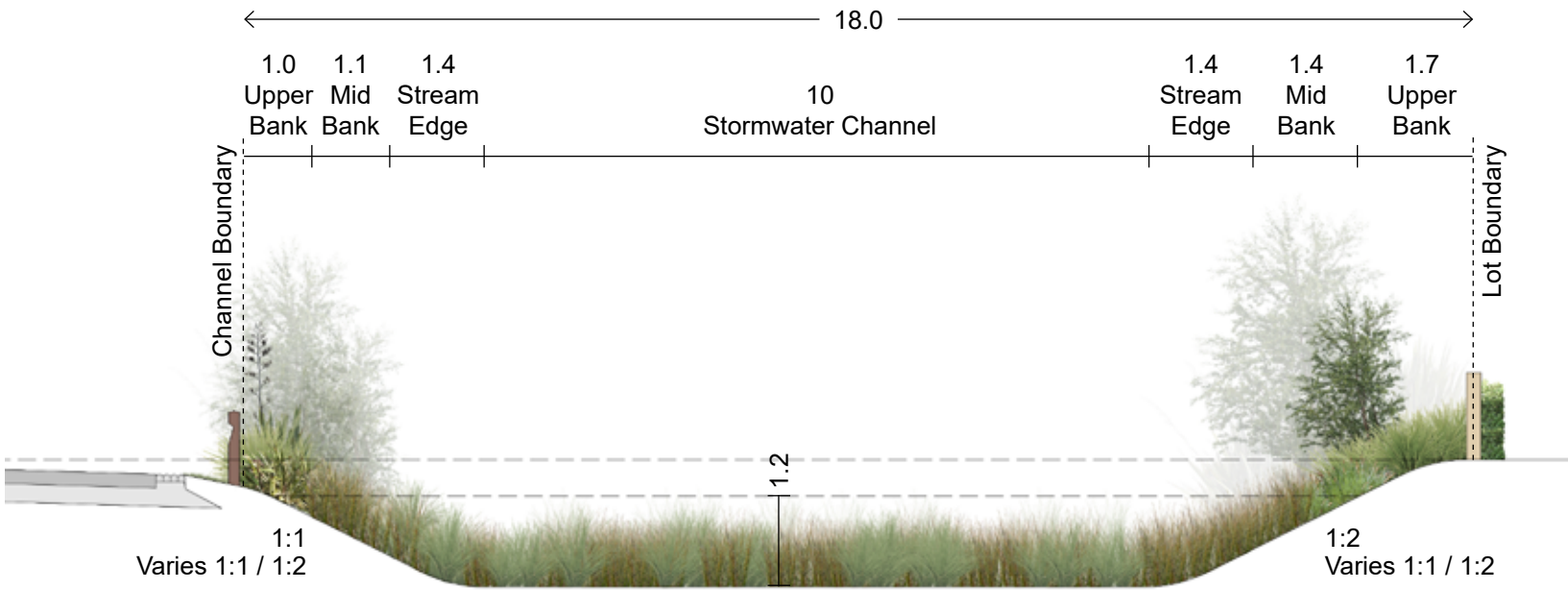
Stormwater Channels

Cross Sections

Typical Cross Section

Channel 1

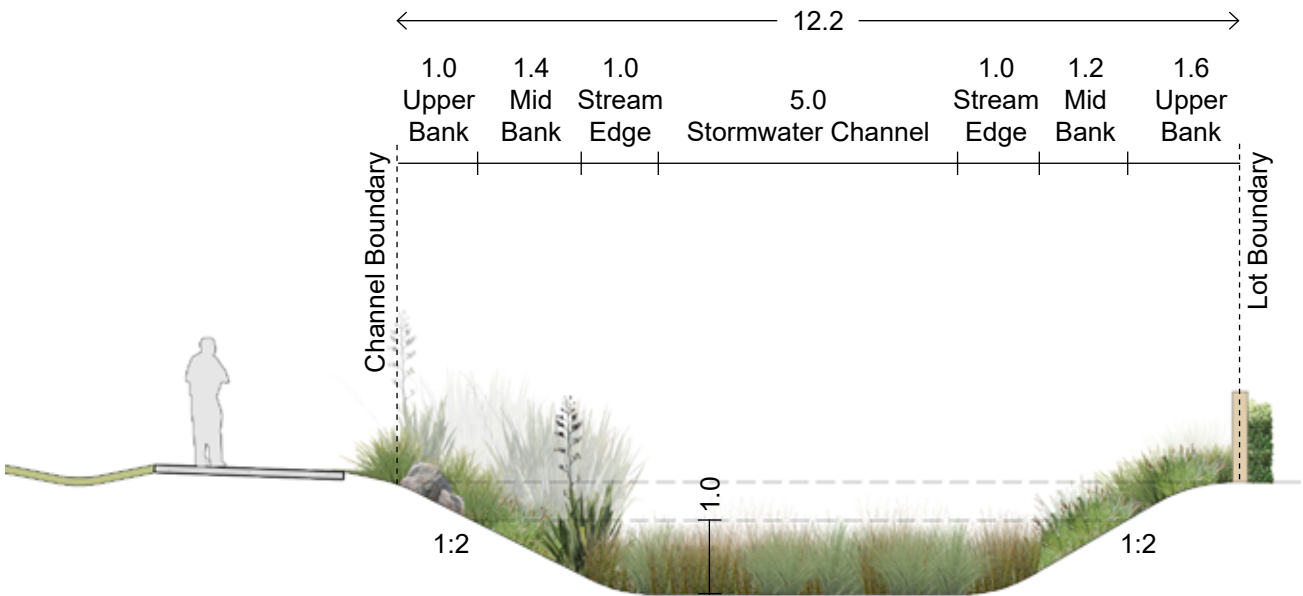
Scale 1:100 @A3



Typical Cross Section

Channel 2

Scale 1:100 @A3



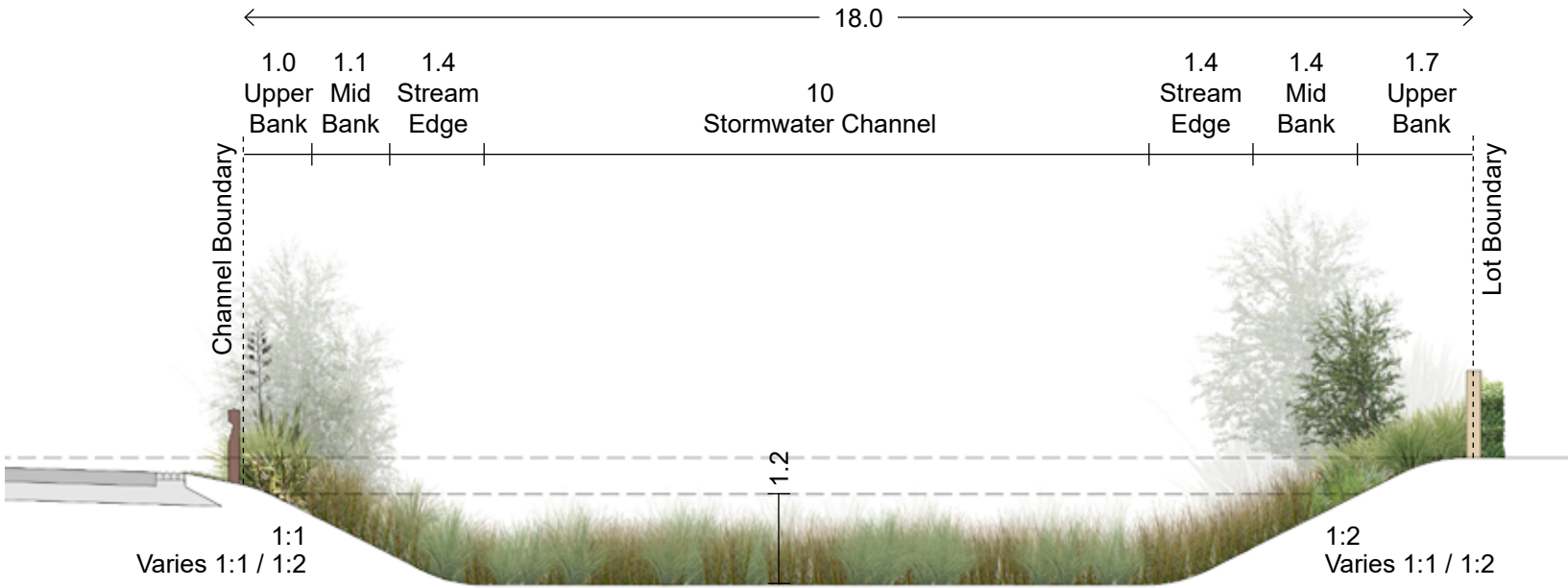
Stormwater Channels

Cross Sections

Typical Cross Section

Channel 1

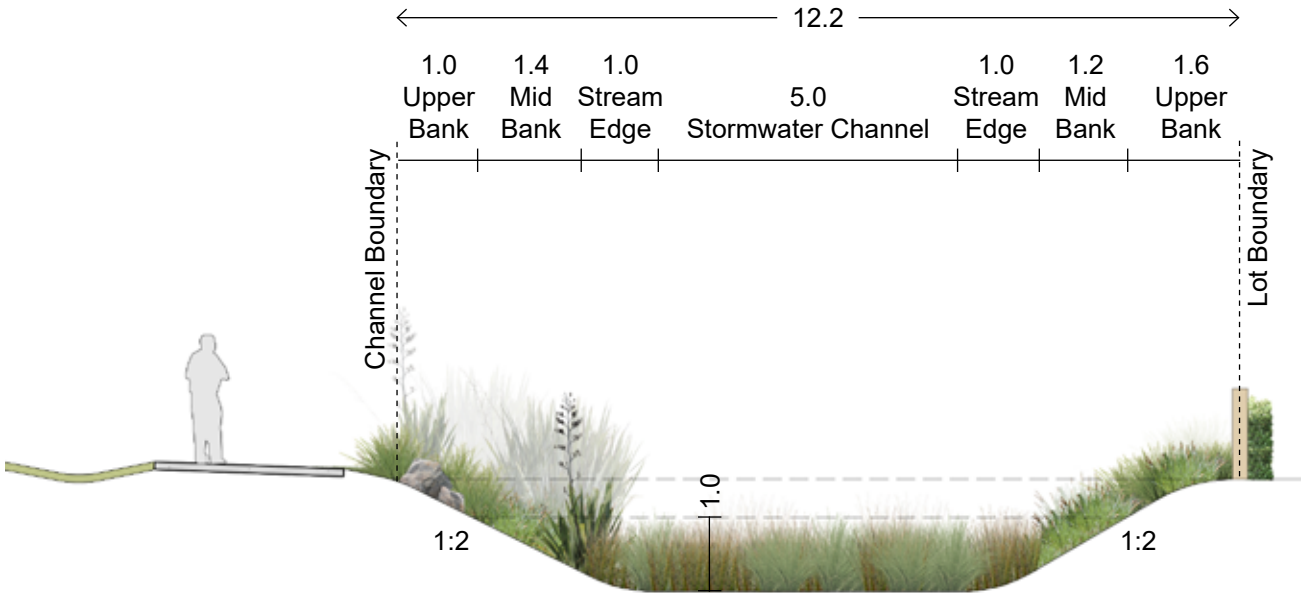
Scale 1:100 @A3



Typical Cross Section

Channel 2

Scale 1:100 @A3



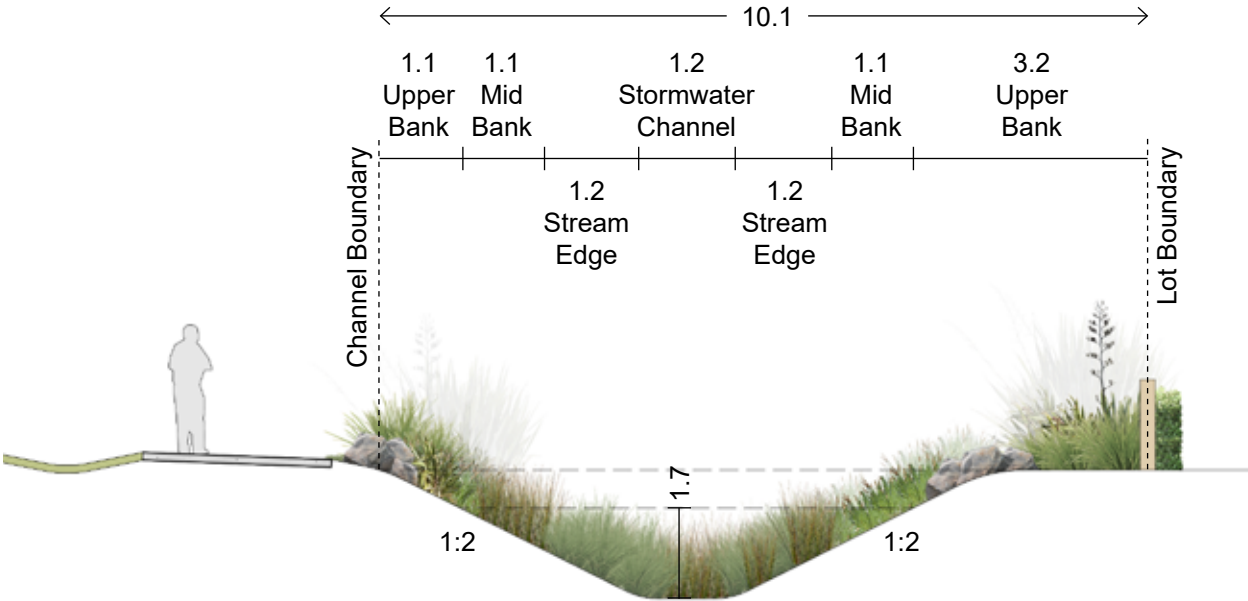
Stormwater Channels

Cross Sections

Typical Cross Section

Channel 3

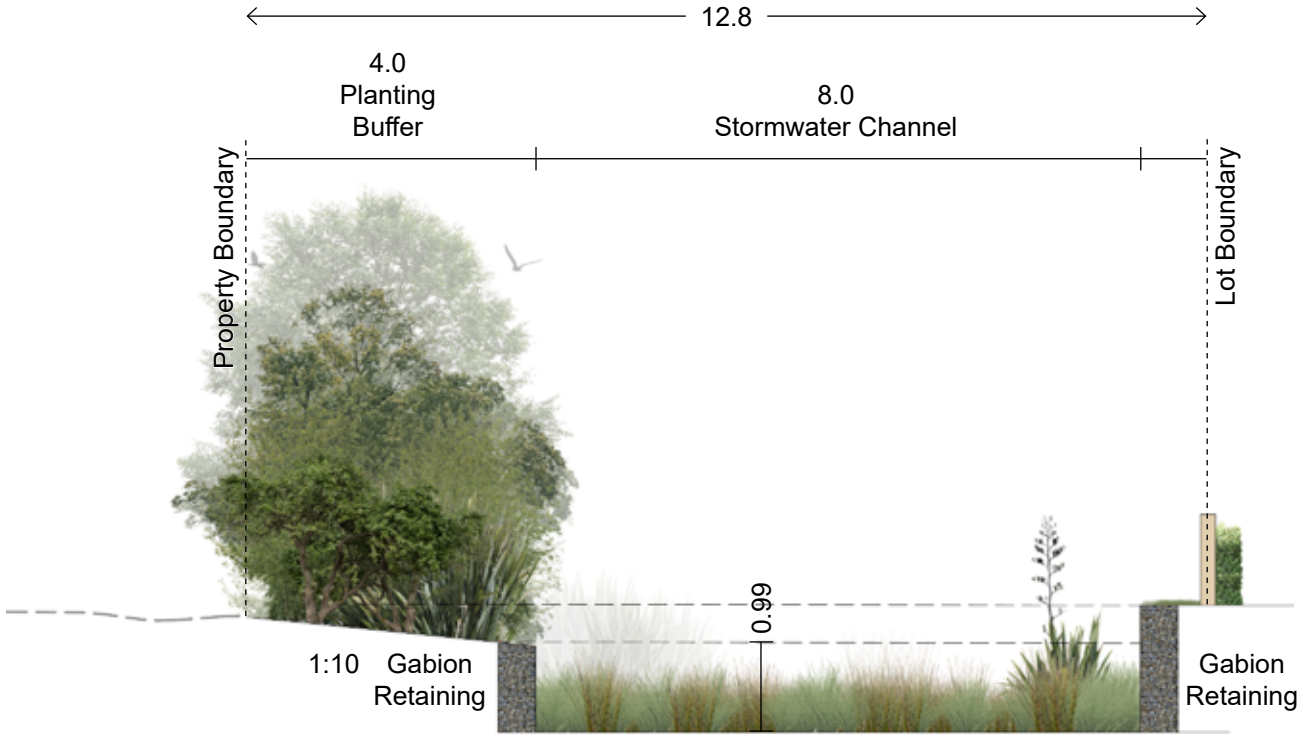
Scale 1:100 @A3



Typical Cross Section

Channel 4

Scale 1:100 @A3

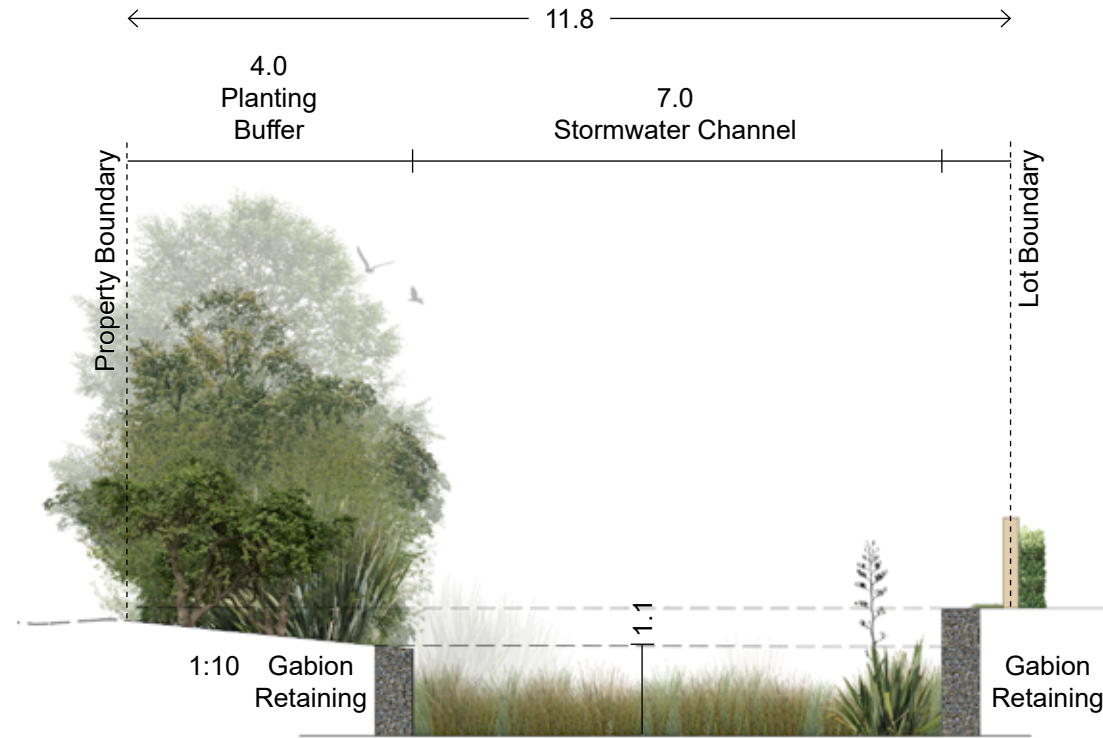


Stormwater Channels

Cross Sections

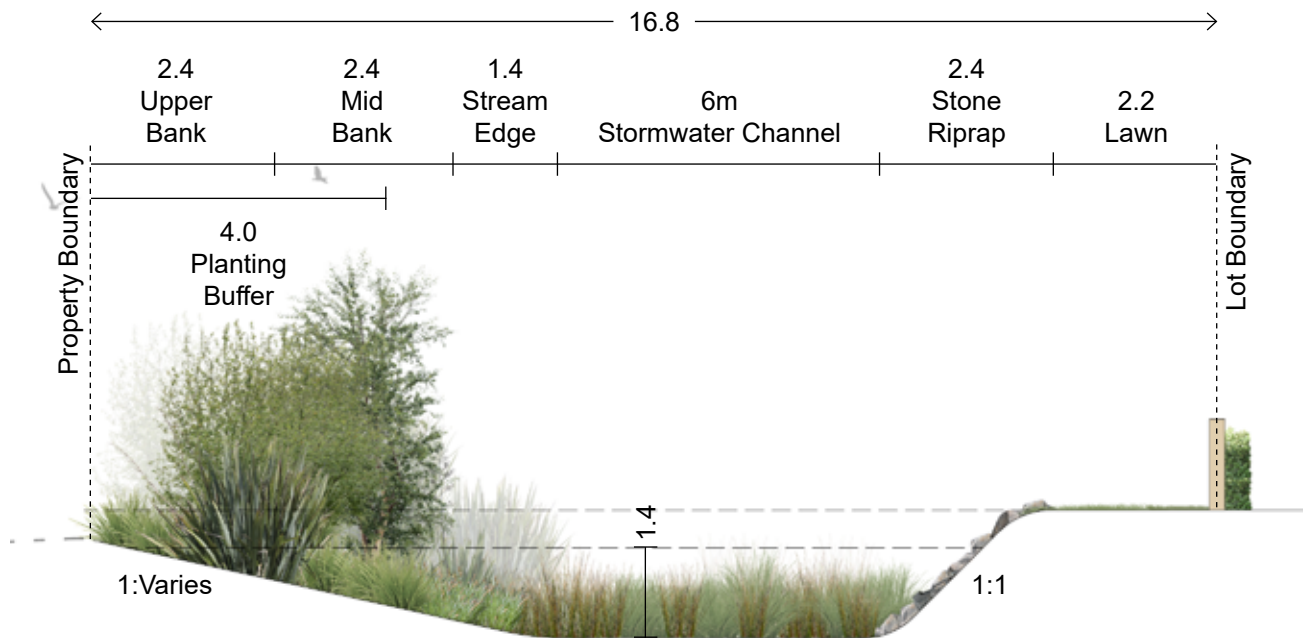
Typical Cross Section
Channel 5 Upstream

Scale 1:100 @A3



Typical Cross Section
Channel 5 Downstream

Scale 1:100 @A3



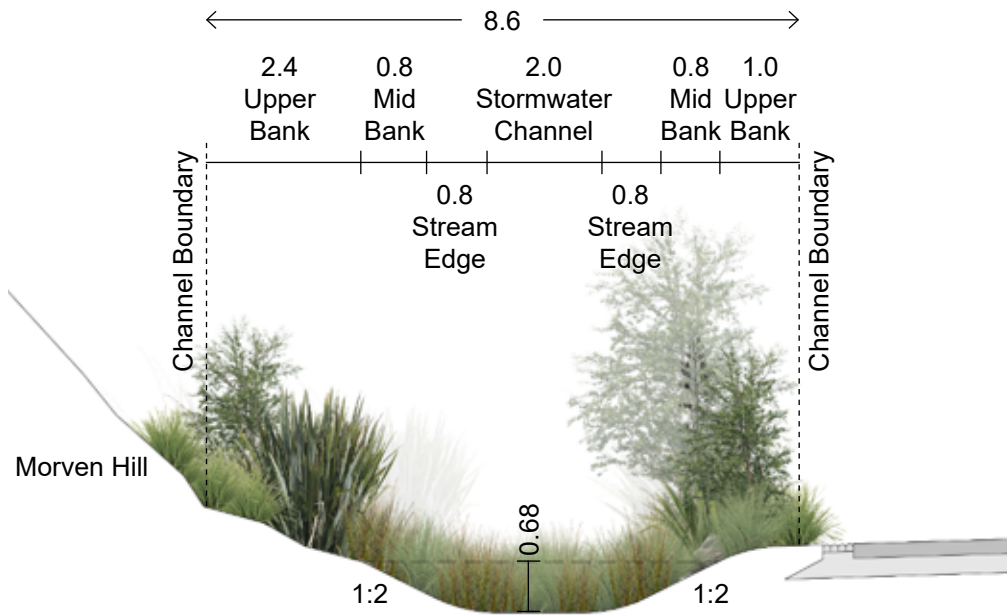
Stormwater Channels

Cross Sections

Typical Cross Section

Channel 6

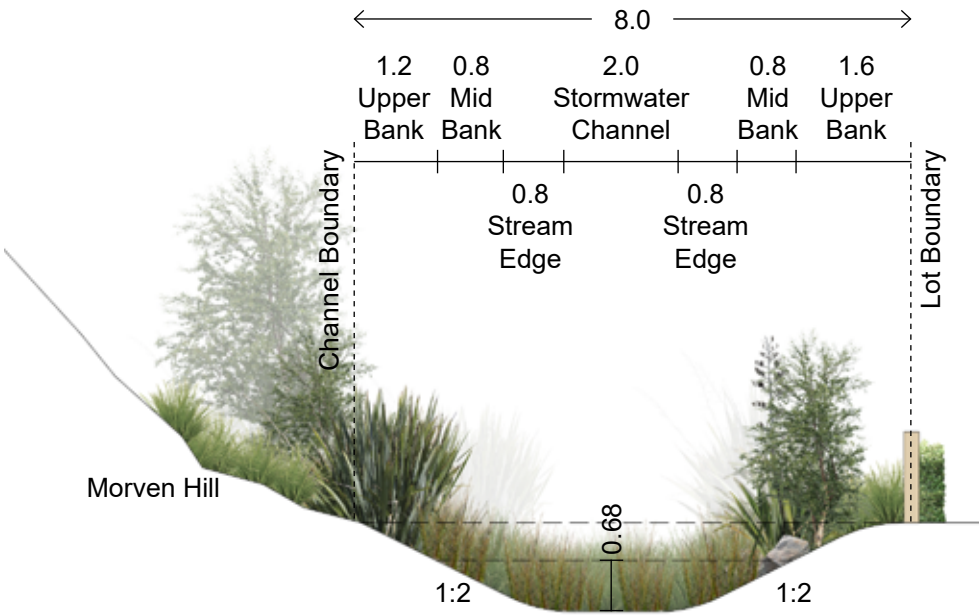
Scale 1:100 @A3



Typical Cross Section

Channel 7

Scale 1:100 @A3



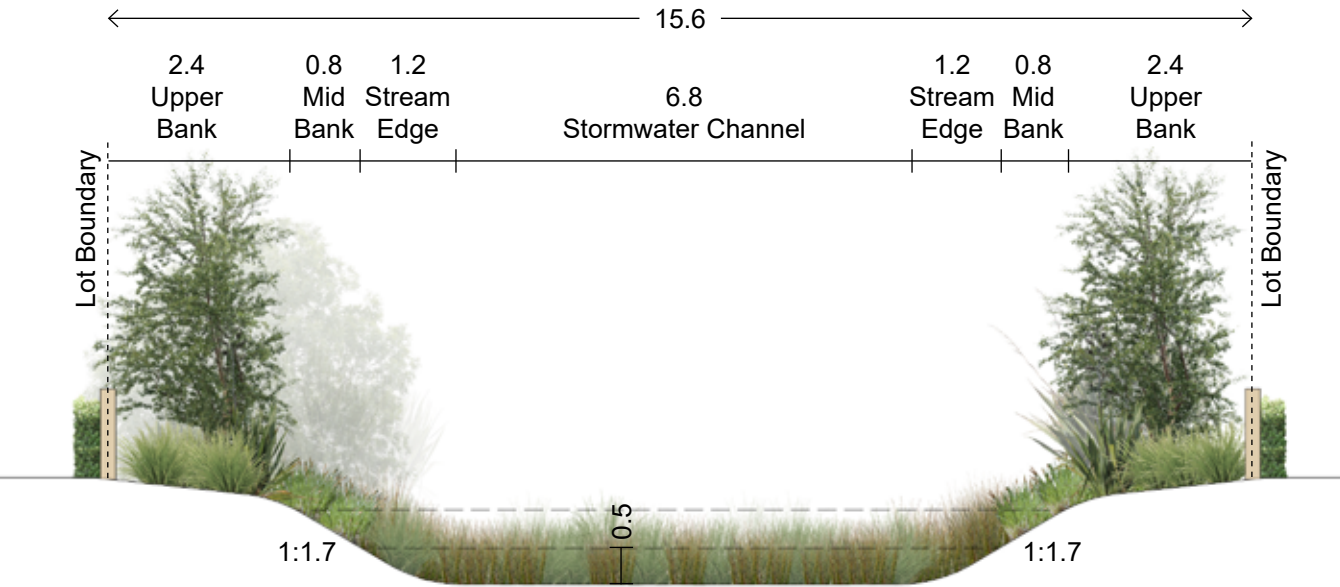
Stormwater Channels

Cross Sections

Typical Cross Section

Channel 8

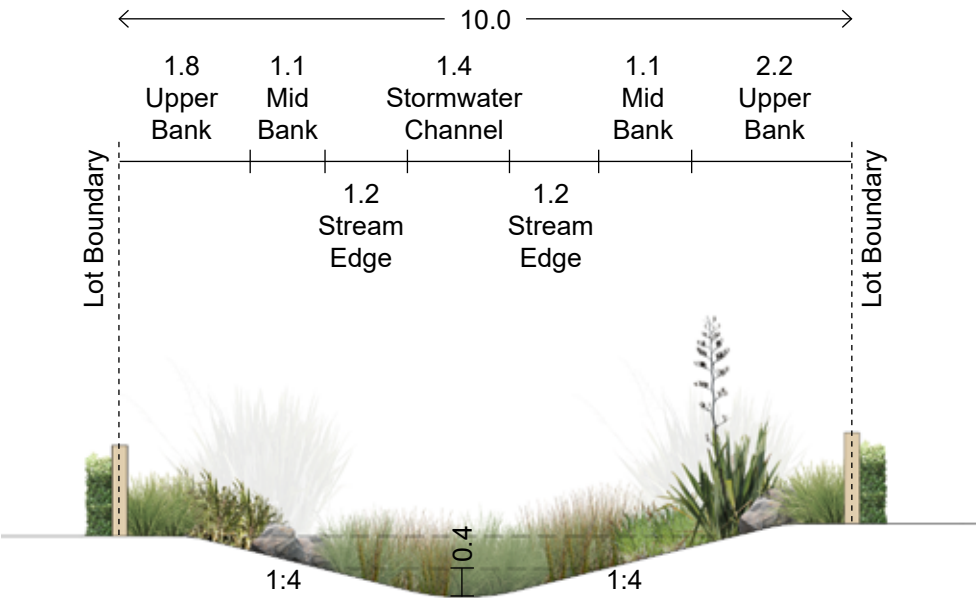
Scale 1:100 @A3



Typical Cross Section

Channel 9

Scale 1:100 @A3



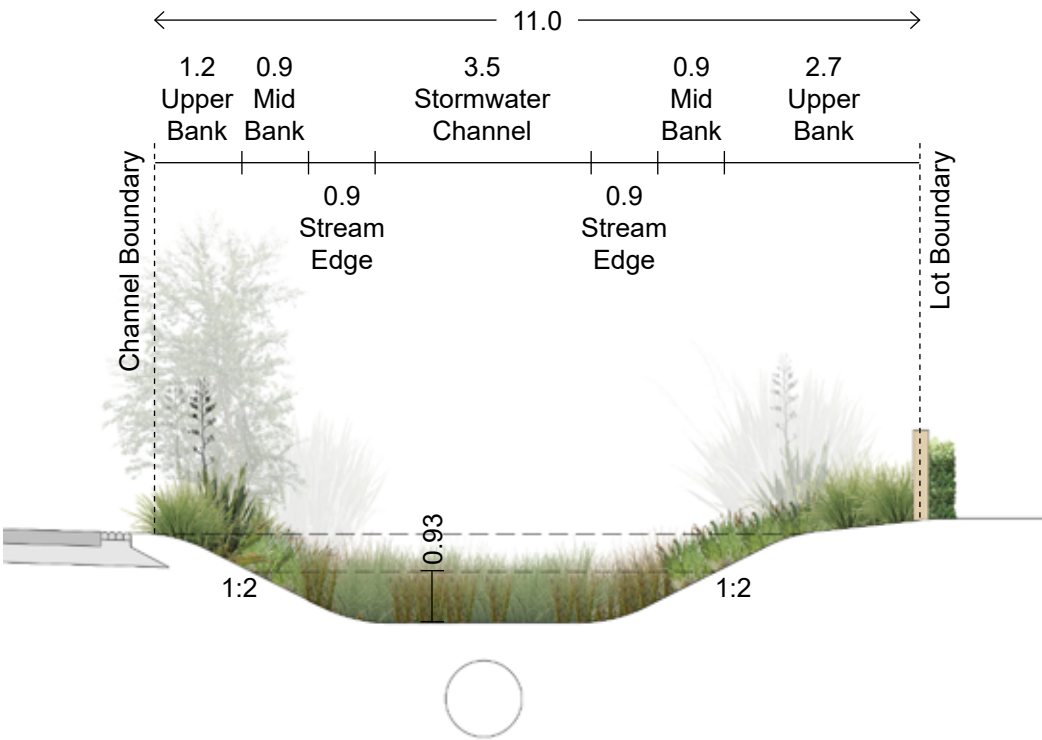
Stormwater Channels

Cross Sections

Typical Cross Section

Channel 10

Scale 1:100 @A3

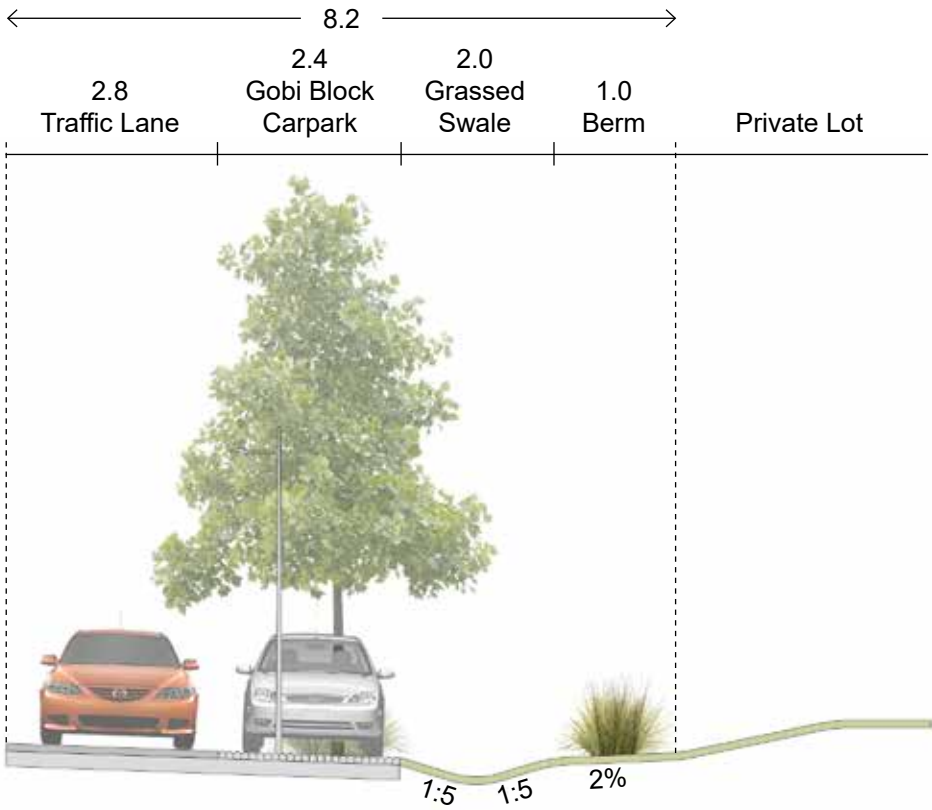


Stormwater Channels

Cross Sections

Typical Cross Section

Scale 1:100 @A3





BOUNDARY INTERFACES

Boundary Interfaces

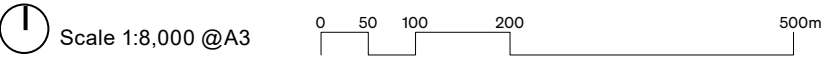
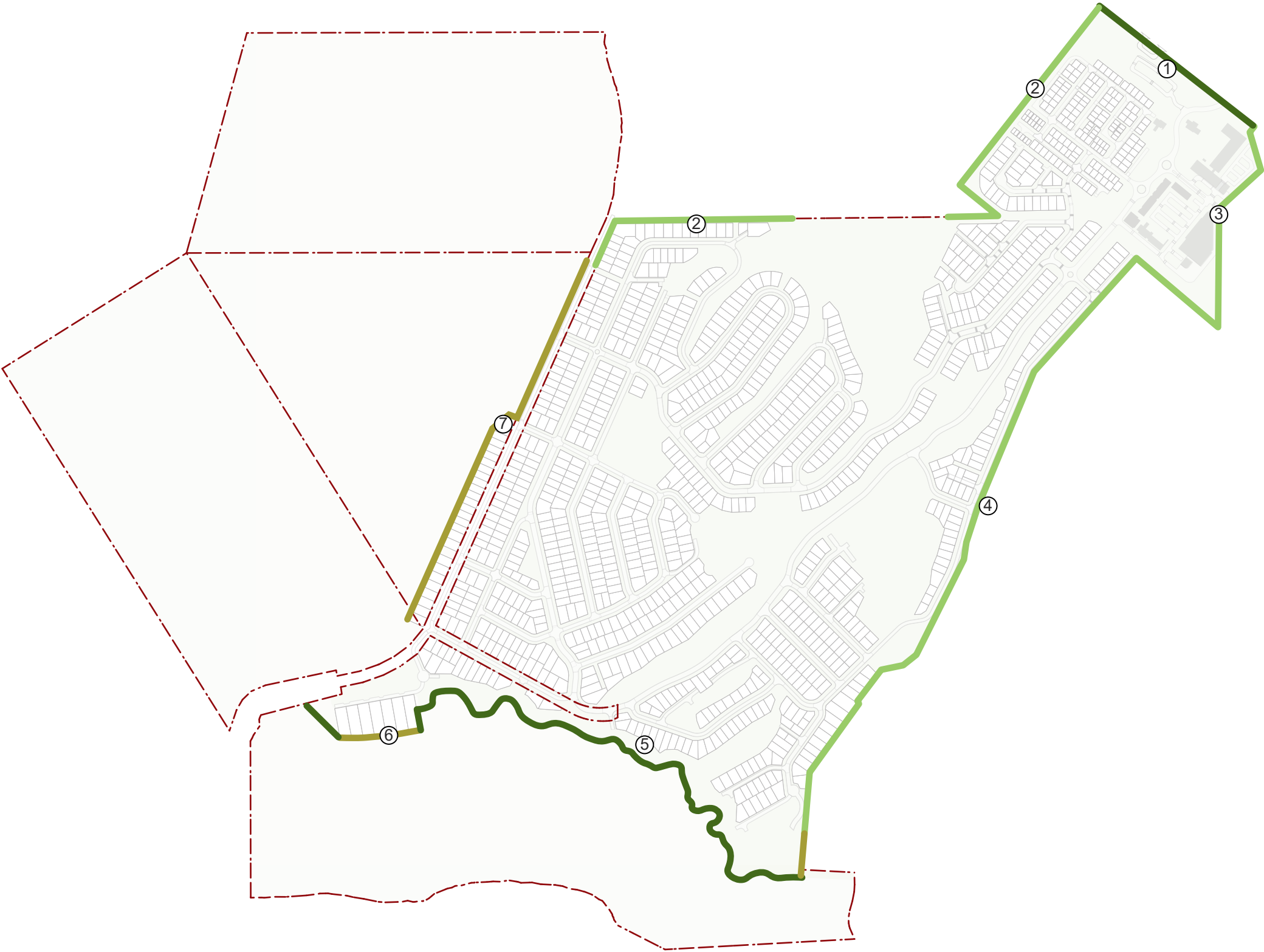
Overview Plan

Given Ridgeburn's location, the development will interface with the surrounding rural environment. It is at these boundaries that sensitivities arise. Therefore, the following approach will be adopted to manage this, ensuring Ridgeburn sits comfortably within the surrounding environment.

Along the Morven Ferry Road interface a landscape buffer including a planting strip will separate the proposed built form and the existing road. The minimum built form setback along this edge will be 23m with the maximum setback being approximately 75m. Interfaces with adjoining rural properties will comprise a minimum six metre wide planting strip. Built form will be setback 30m from the edge of the Kawarau River ONF escarpment.

Legend

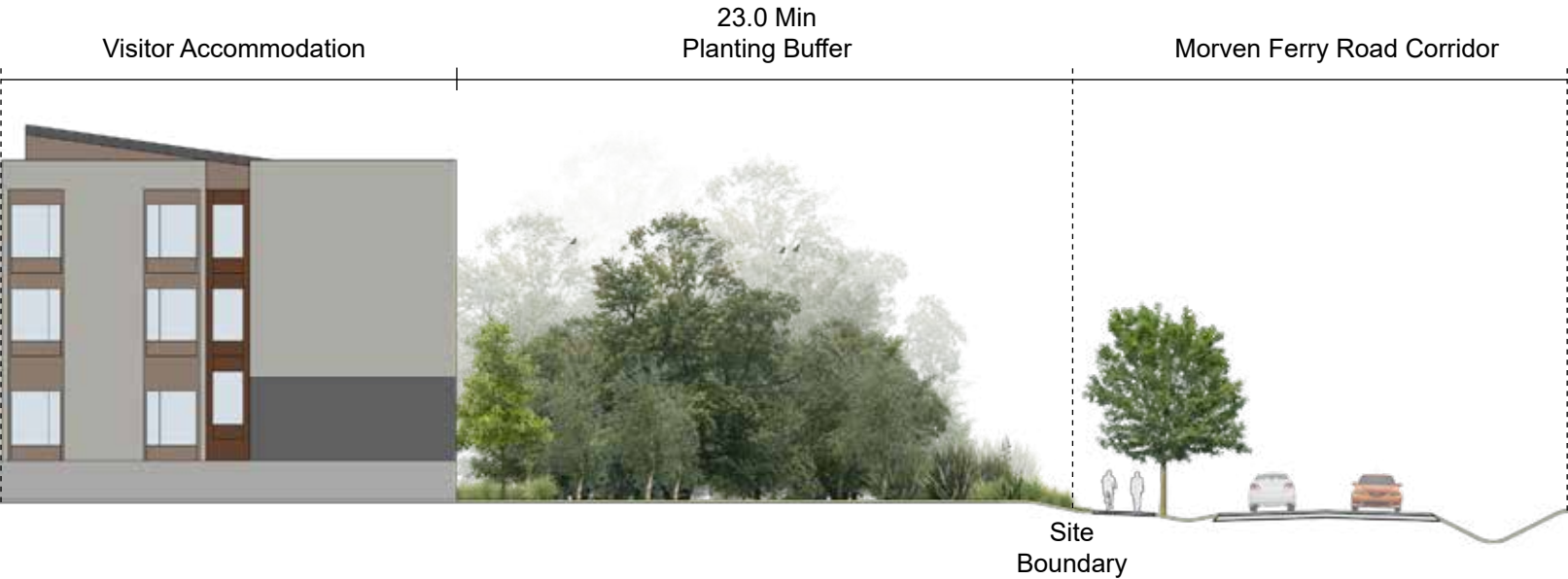
- ① Ridgeburn entrance reserve with landscaped interface to Morven Ferry Road
- ② Ridgeburn residential lots and swale with 6m planted interface to adjacent rural land
- ③ Ridgeburn commercial area road with a 6m planted interface to the adjacent rural land
- ④ Ridgeburn road typology B1-C with 6m planted interface to adjacent rural land
- ⑤ Ridgeburn escarpment reserve with 30m landscaped interface to Kawarau River escarpment edge
- ⑥ Ridgeburn residential lots with 30m planted interface to the Kawarau River escarpment edge
- ⑦ Ridgeburn residential lots with planted interface to Ridgeburn Morven Hill reserve



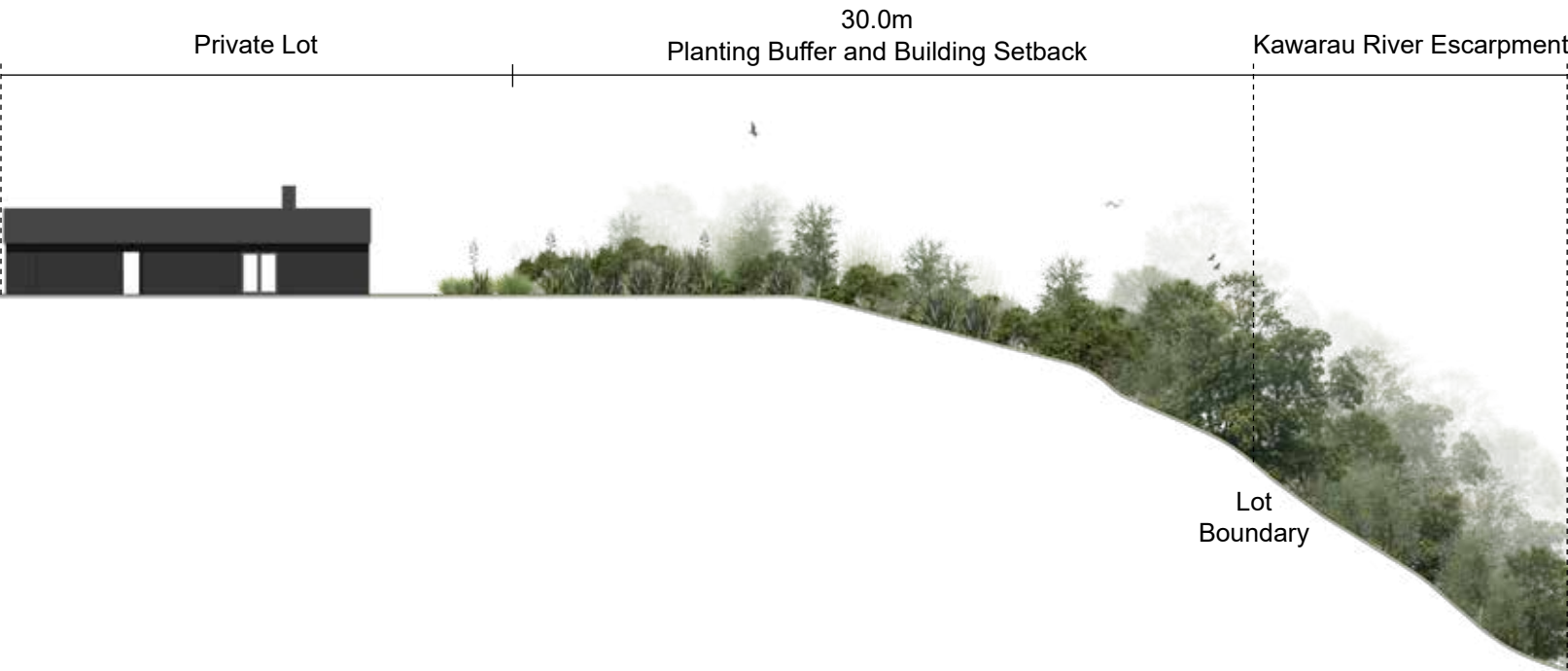
Boundary Interfaces

Cross Sections

Morven Ferry Road Interface:
Development edge 23m minimum Morven Ferry road landscape buffer cross section.
Scale 1:300 @A3



Escarpment Interface:
Development edge 30m escarpment planting buffer and setback cross section.
Scale 1:300 @A3

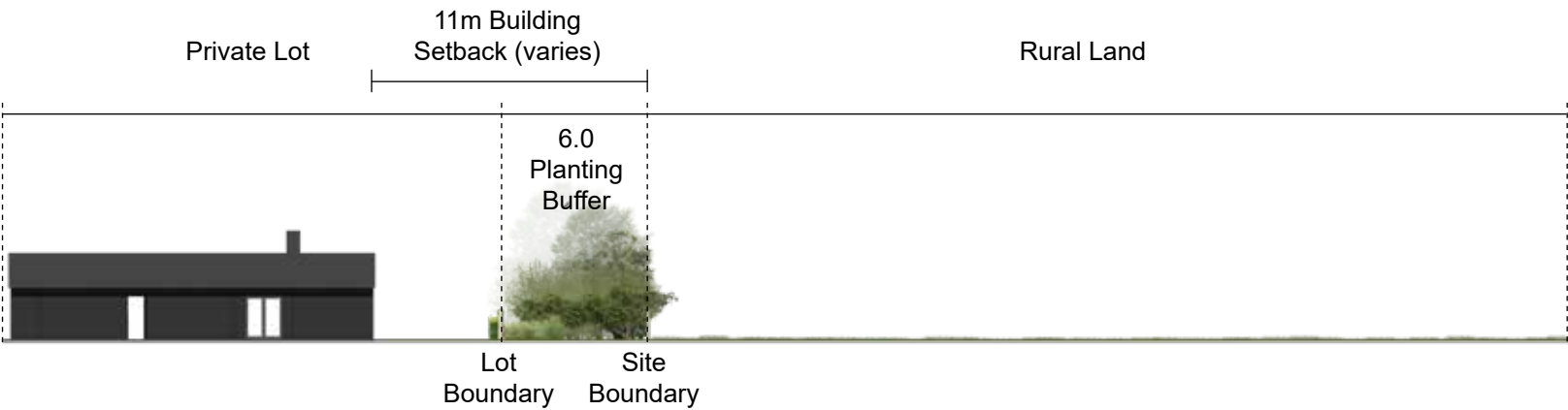


Boundary Interfaces

Cross Sections

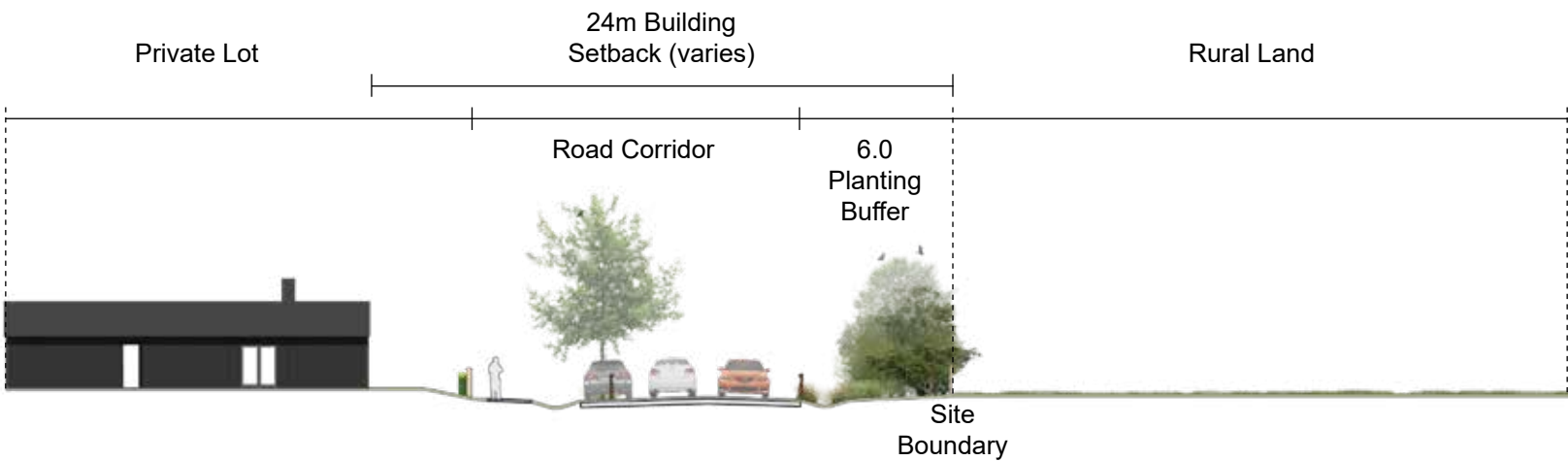
Rural Interface:
Development edge and 6m
planting buffer cross section.

Scale 1:300 @A3



Rural Interface:
Road typology B1-C and 6m
planting buffer cross section.

Scale 1:300 @A3



Boundary Interface Planting

The boundary interface will consist of a 6m wide planting strip of native species. The species have been selected for their presence in the surrounding Wakatipu Basin and their hardy characteristics to ensure plant success. The chosen species will also provide ecological habitat.

SHRUBS



Carpodetus serrtaus
Marble Leaf



Coprosma crassifolia
Mingimingi



Coprosma dumosa
Coprosma



Coprosma linarifolia
Mikimiki



Coprosma propinqua
Mingimingi



Corokia cotoneaster
Korokio



Olearia avicenniifolia
Mountain Ake Ake



Olearia lineata
Twiggy Tree Daisy



Olearia odorata
Scented Tree Daisy



Veronica salicifolia
koromiko

TREES



Cordyline australis
Cabbage Tree



Elaeocarpus hookerianus
Pokaka



Nothofagus cliffortioides
Mountain beech



Myrsine divaricata
Weeping Matipo



Olearia avicenniifolia
Mountain Ake Ake



Pittosporum tenuifolium
kōhūhū



Plagianthus regius
ribbonwood



Podocarpus laetus
Hall's Tōtara



Pseudopanax crassifolius
Lancewood



Sophora microphylla
South Island Kowhai



NEIGHBOURHOODS

Neighbourhoods

Street Trees

A mix of suitable tree species have been selected to create a hardy street tree palette for the development. The trees selected not only resonate with the exotic trees currently growing in the Wakatipu Basin, but also provide seasonal change and shade.

The selection of tree species indicated will be planted, with two species per street. The street trees will be planted on streets appropriate to their size as dictated by the street width; the narrower the street, the smaller the tree. The trees will be planted at an average spacing of 7-15m in coordination with below-ground services, sightlines, and street lighting and in conjunction with root barriers in compliance with QLDC street tree guidelines.

- PRIMARY ROAD TYPOLOGY A1**

STREET TREE SPECIES:

Zelkova serrata - Japanese Elm

Tilia cordata - Small-leaved Linden
- SECONDARY ROAD TYPOLOGIES B1 AND B1-C**

STREET TREE SPECIES:

Quercus robur 'Fastigiata' - Upright English Oak

Platanus x acerifolia 'Pyramidalis' - London Plane

Ulmus 'Frontier' - Frontier Elm
- TERTIARY ROAD TYPOLOGIES B2, B3, C1, AND C4**

STREET TREE SPECIES:

Liriodendron 'Arnold' - Tulip Tree

Liquidambar 'Lane Roberts' - Sweet Gum

Acer platanoides - Norway Maple

Carpinus betulus 'Fastigiata' - European Hornbeam

Acer Rubrum 'Brandywine' - Red Maple

Ulmus Lobel - Upright Elm

Acer campestre - Field Maple

Pyrus Candelabra - Ornamental Pear

Fraxinus 'Green Glow' - European Ash

Quercus robur 'Fastigiata' - Upright English Oak
- COMMUNITY LANES TYPOLOGIES C2 AND C3**

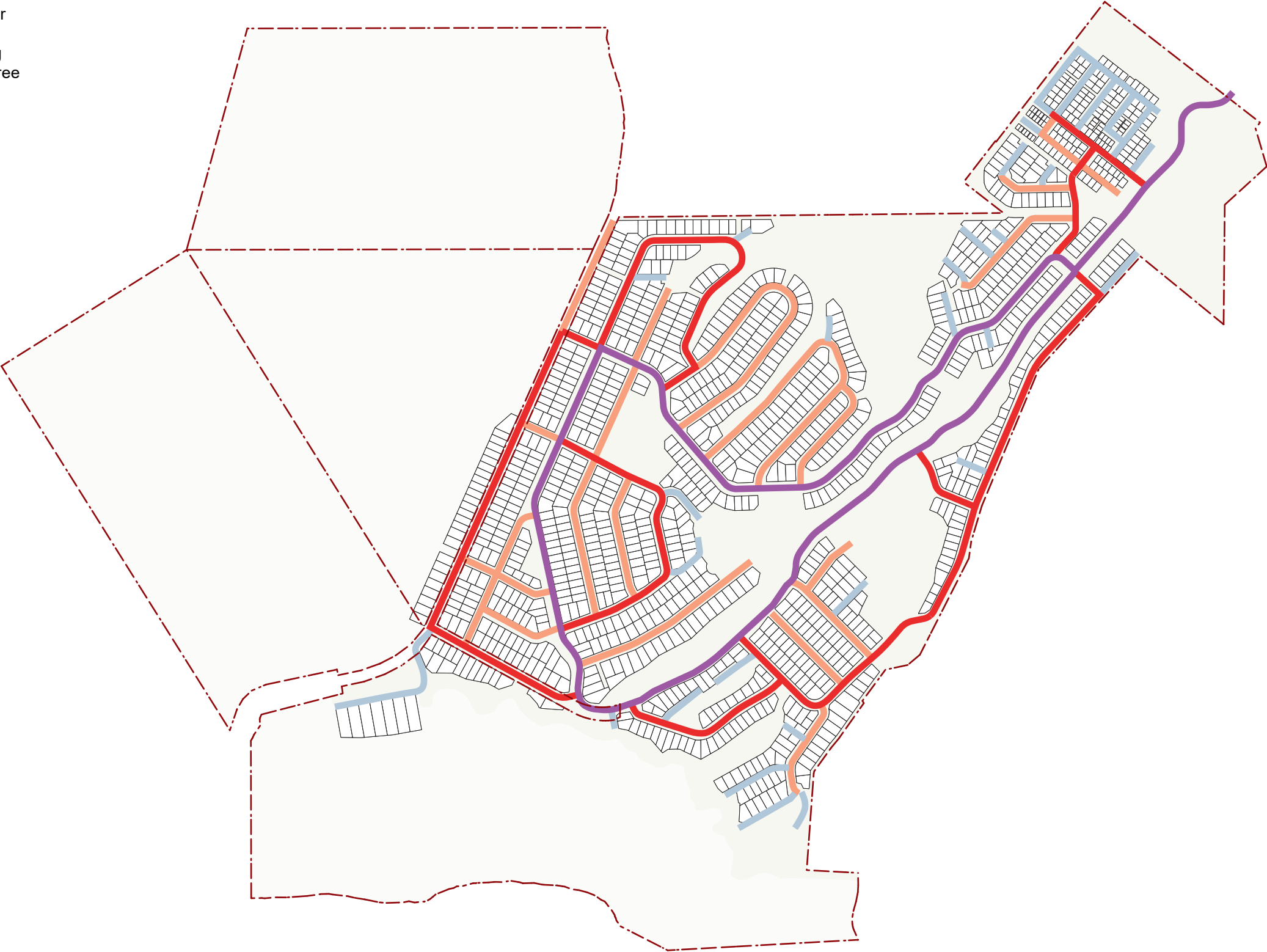
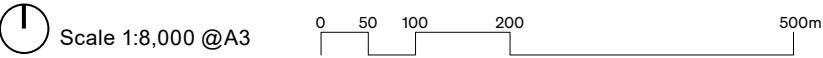
STREET TREE SPECIES:

Prunus serrulata 'Kanzan' - Kanzan Cherry

Prunus 'Amanogawa' - Fastigiate Cherry

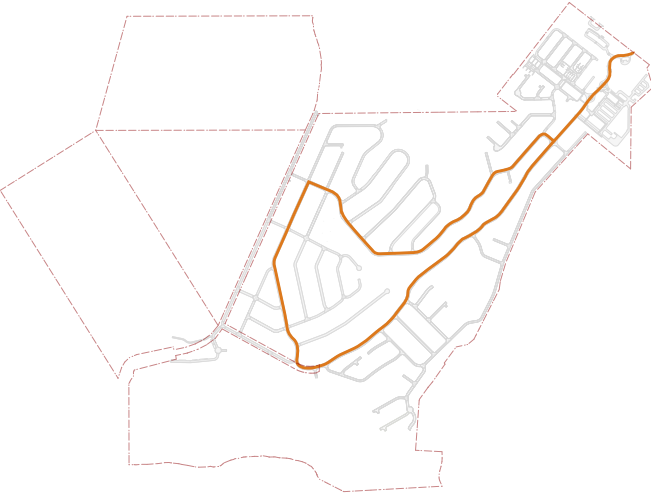
Amelanchier canadensis - Shad Bush

Cornus 'Eddie's White Wonder' - Flowering Dogwood



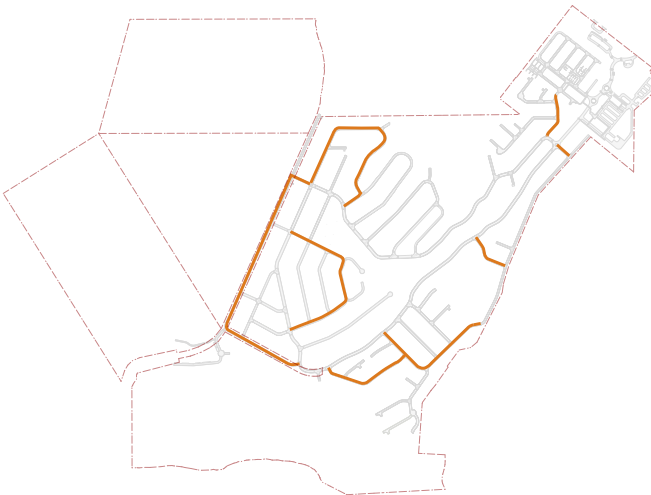
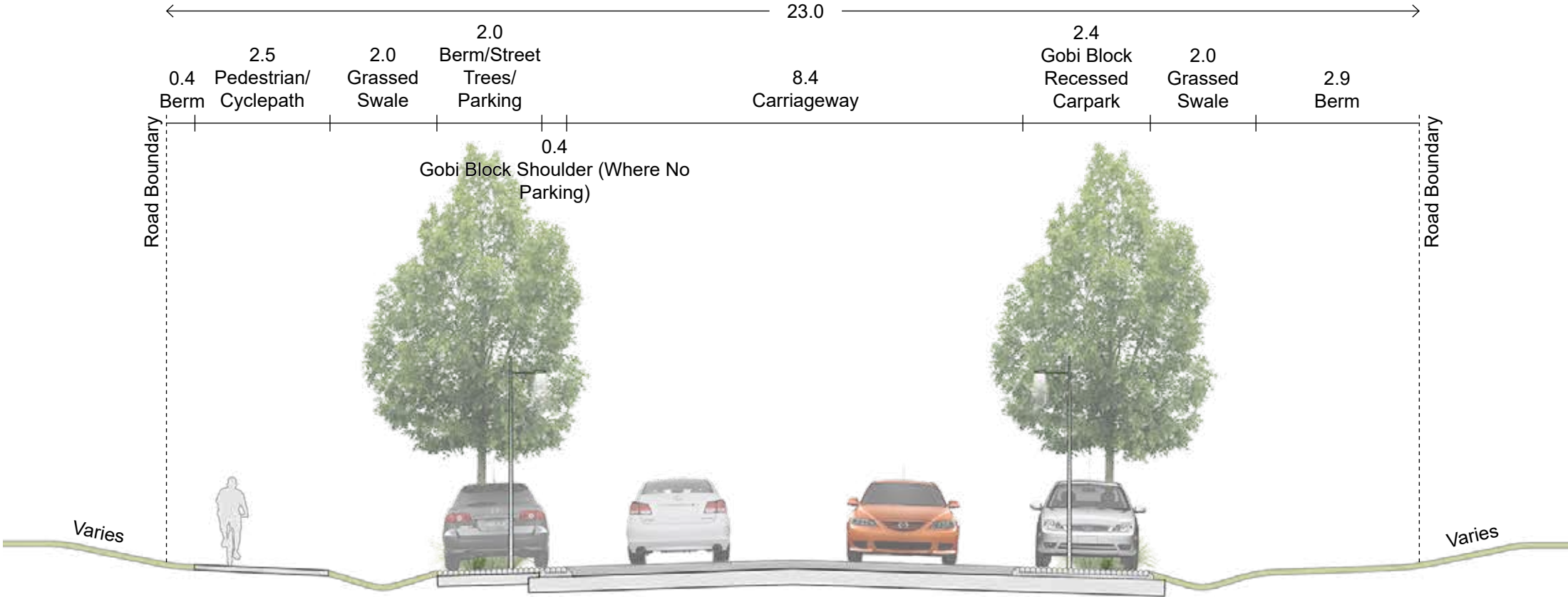
Neighbourhoods

Street Cross Sections



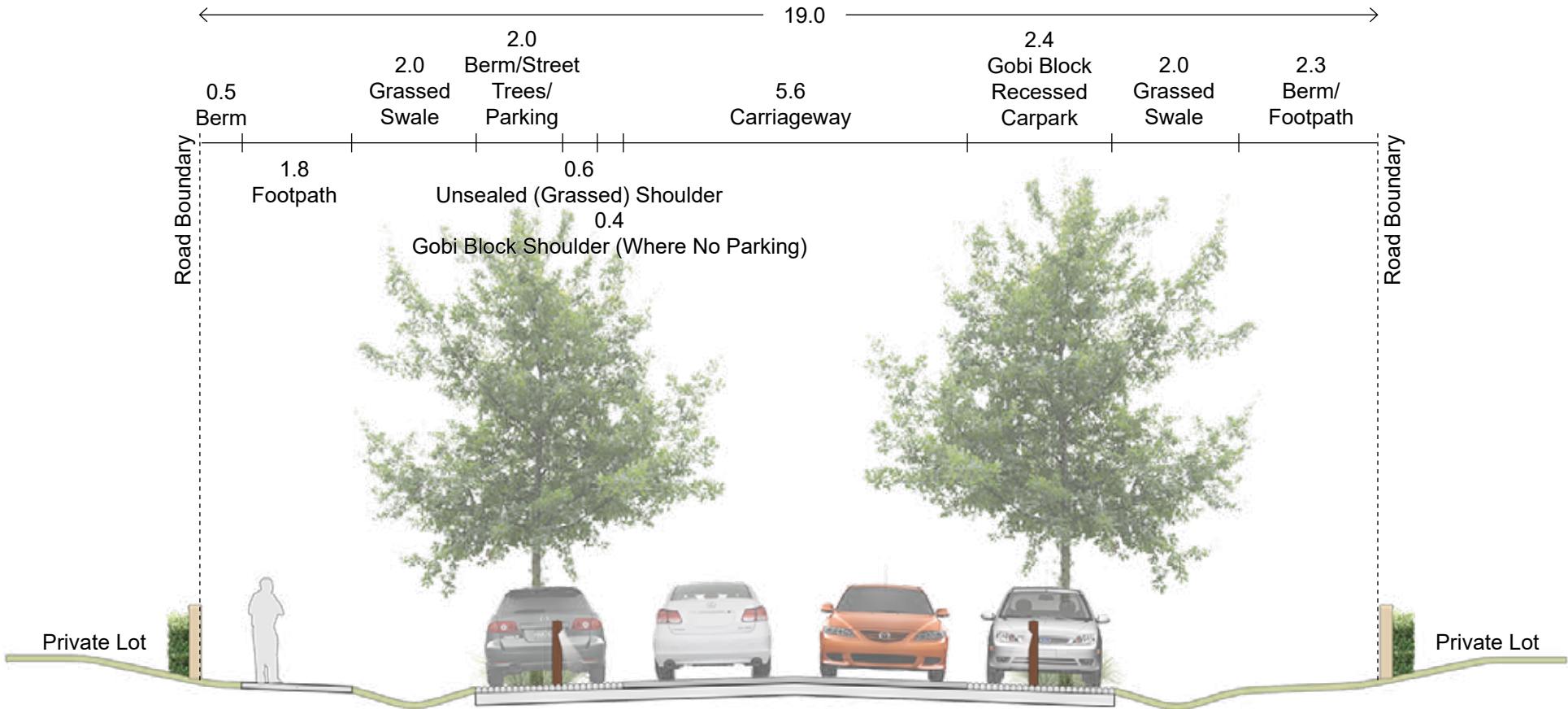
Primary Road (A1)
Typical Cross Section

Scale 1:100 @A3



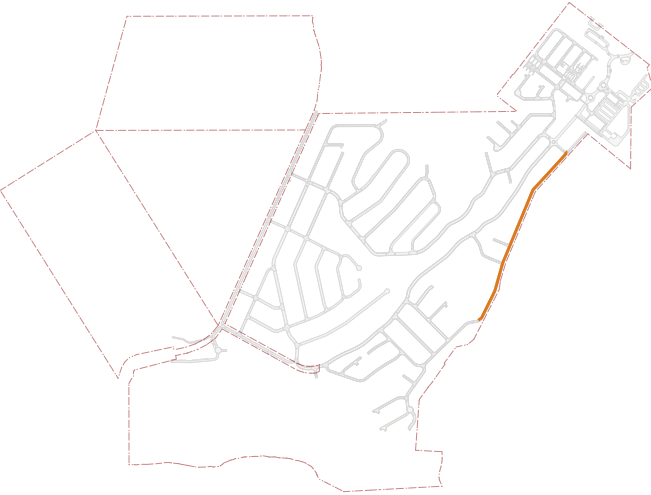
Secondary Road (B1)
Typical Cross Section

Scale 1:100 @A3



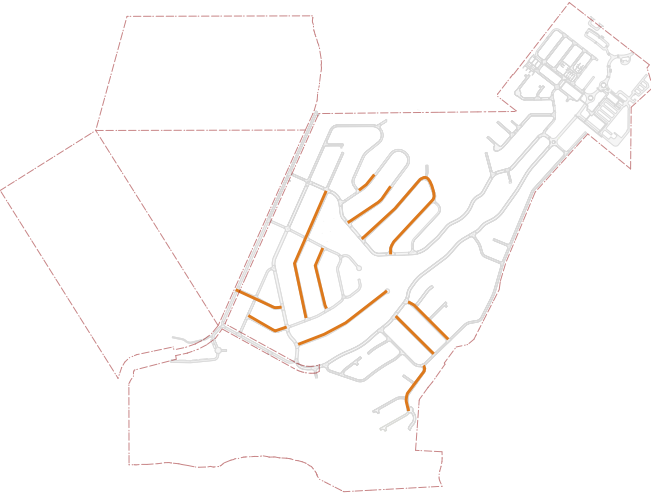
Neighbourhoods

Street Cross Sections



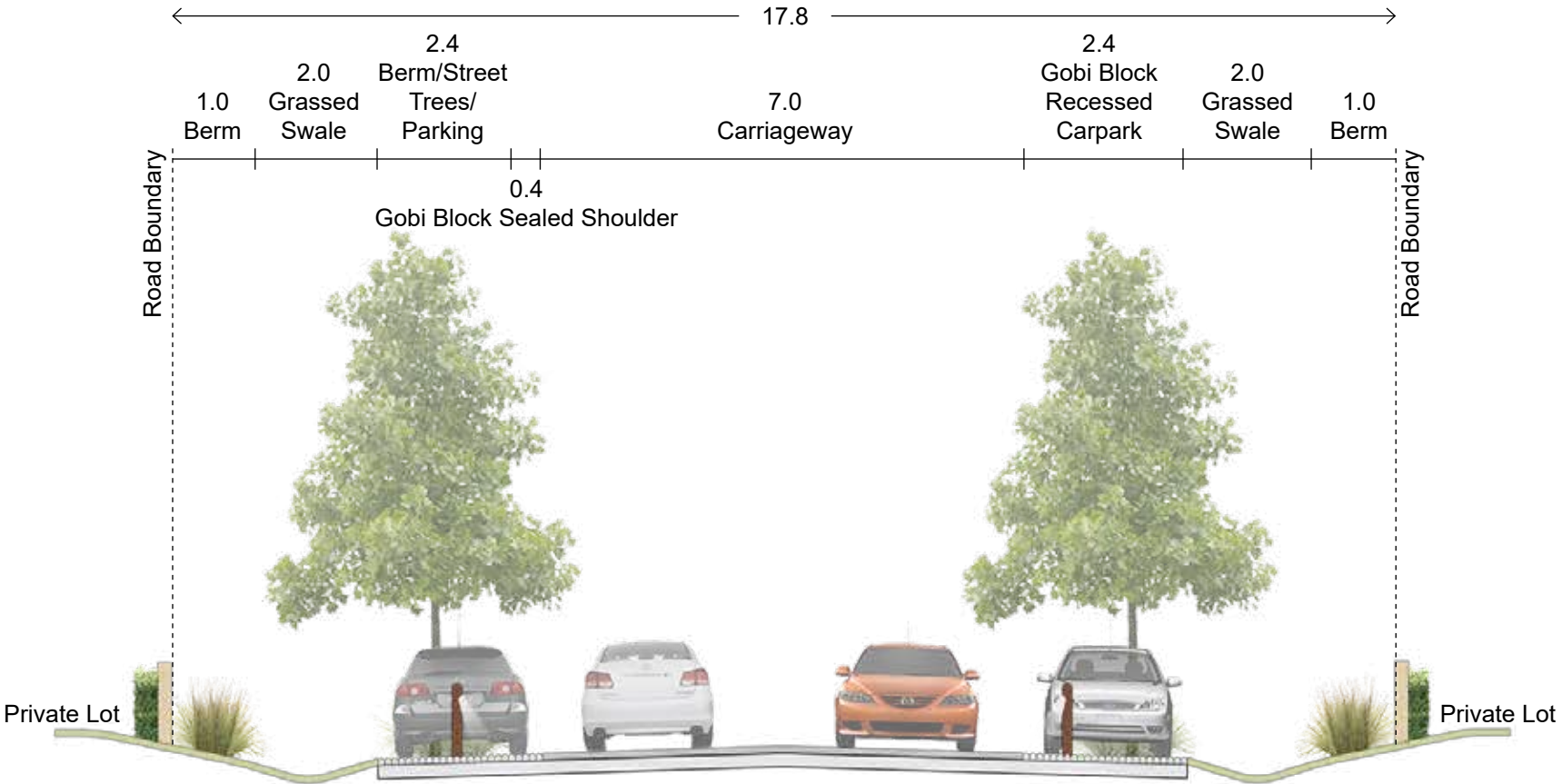
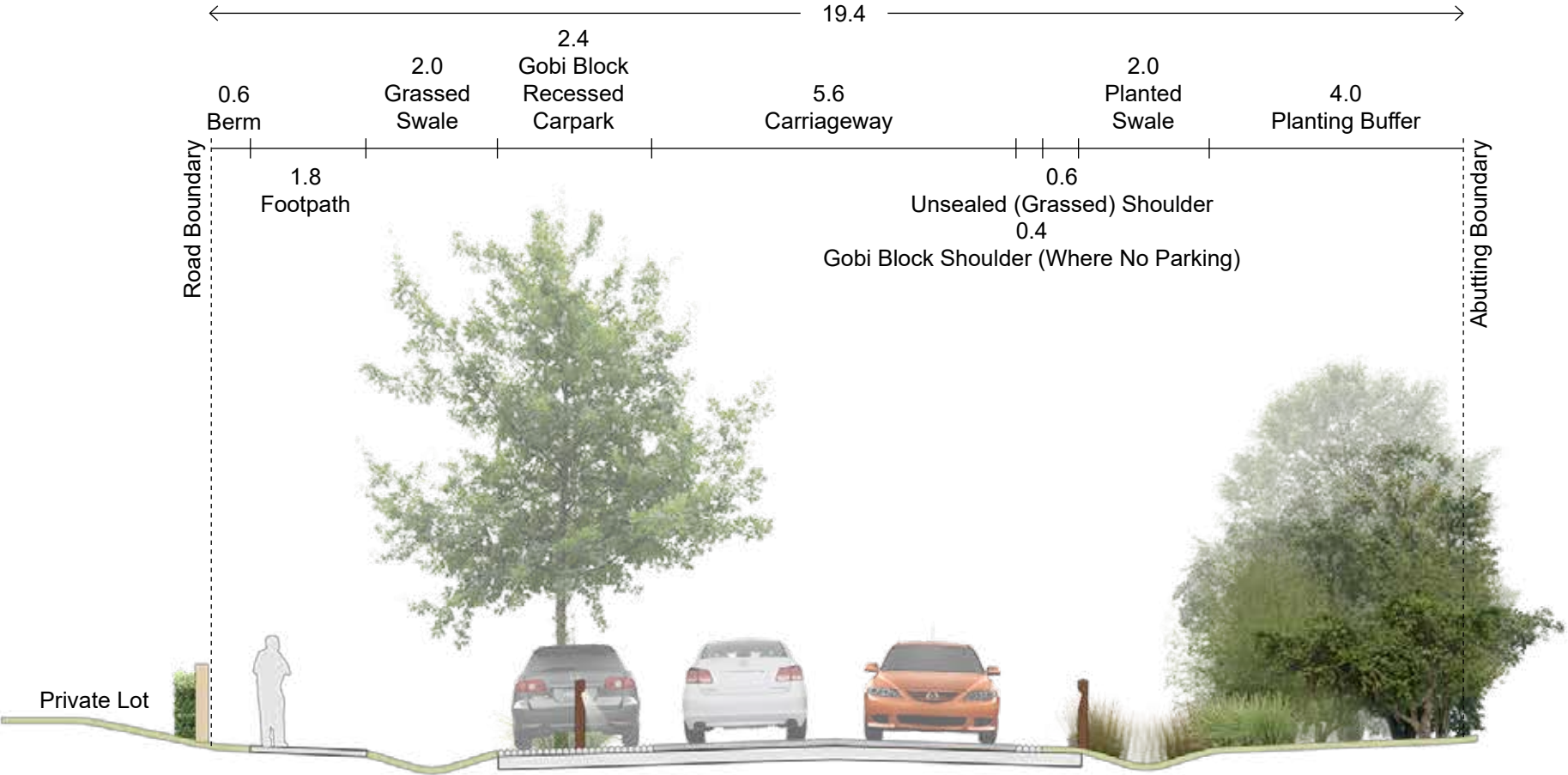
Secondary Road (B1-C)
Typical Cross Section

Scale 1:100 @A3



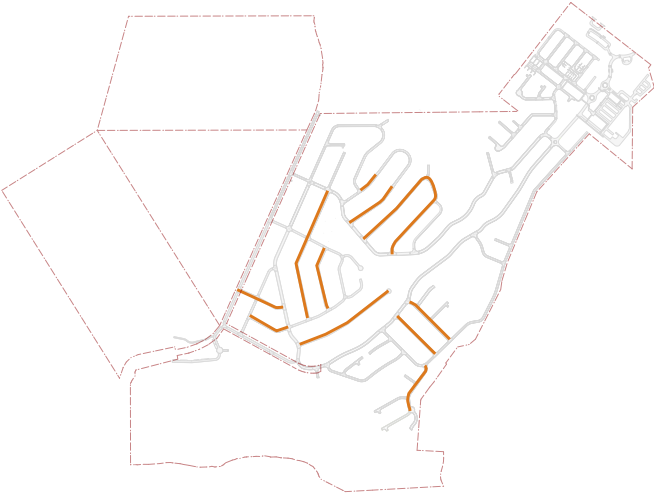
Tertiary Road (B2)
Typical Cross Section

Scale 1:100 @A3



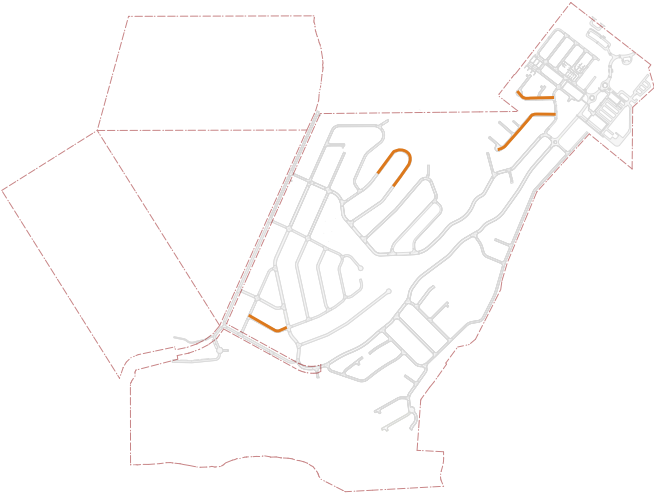
Neighbourhoods

Street Cross Sections



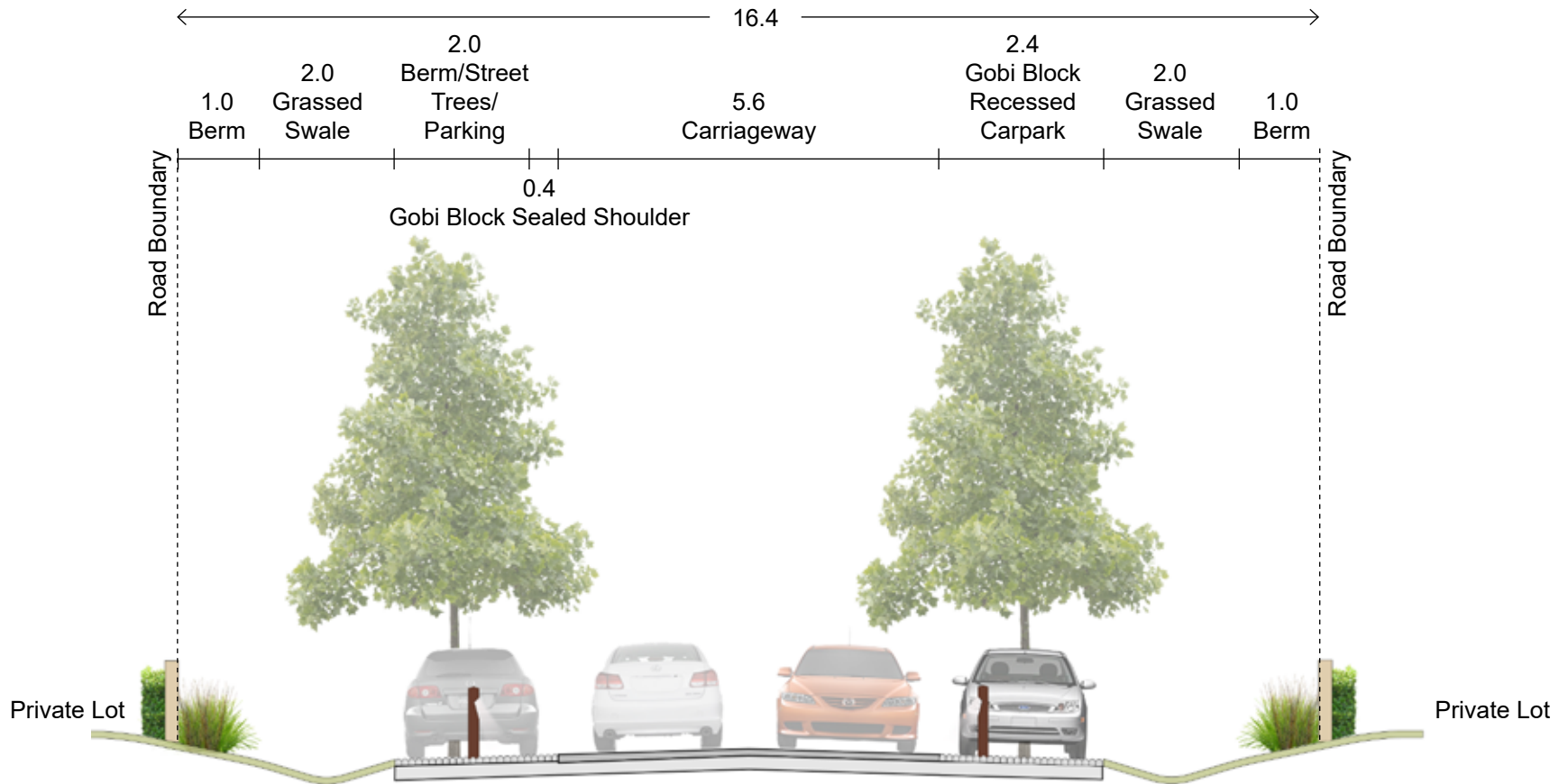
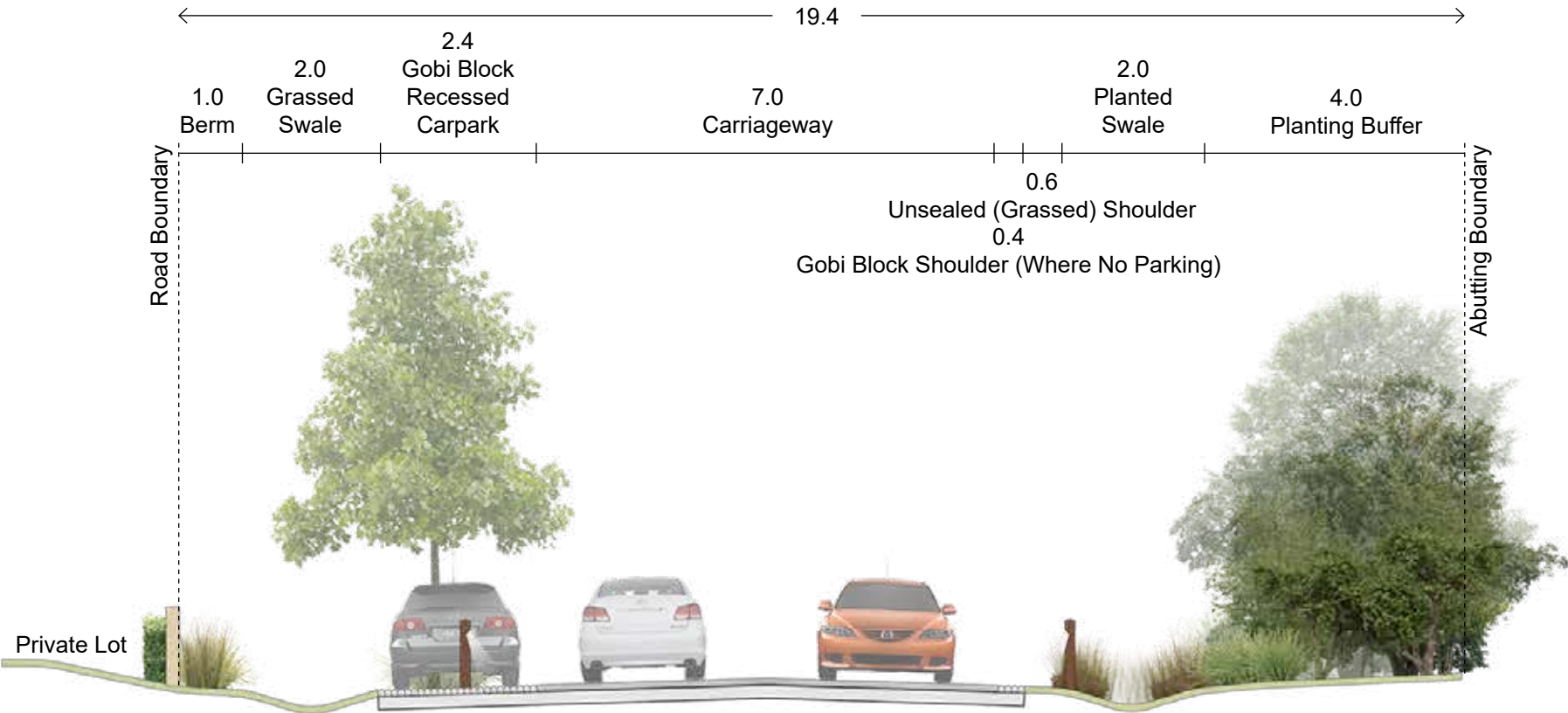
Tertiary Road (B2-C)
Typical Cross Section

Scale 1:100 @A3



Tertiary Road (B2-D)
Typical Cross Section

Scale 1:100 @A3



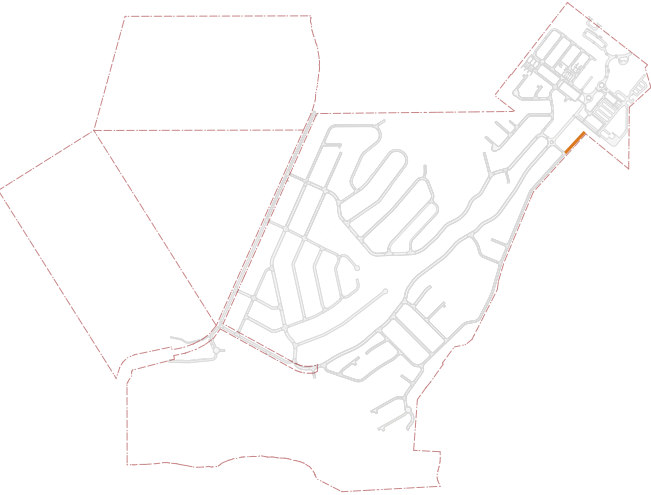
Neighbourhoods

Street Cross Sections



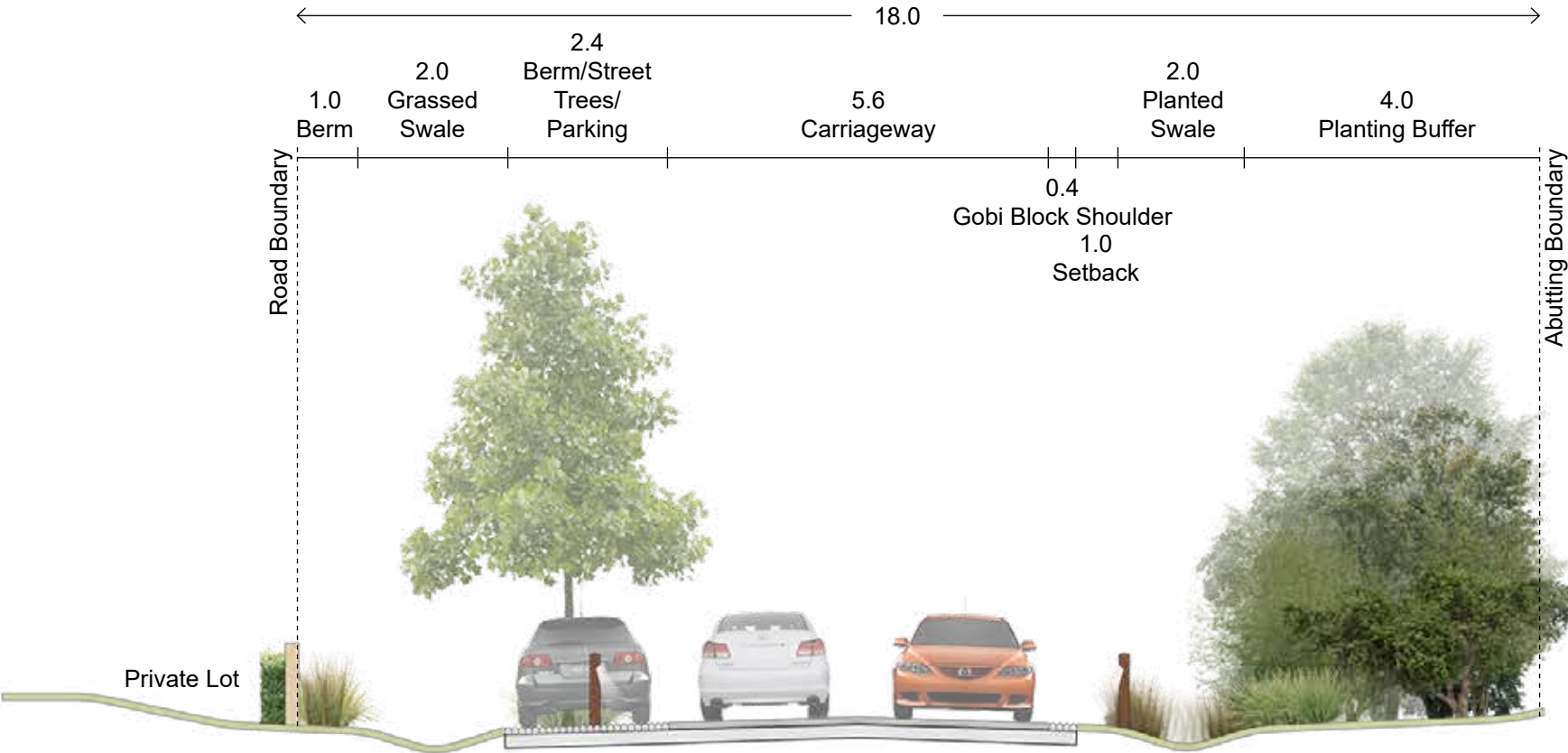
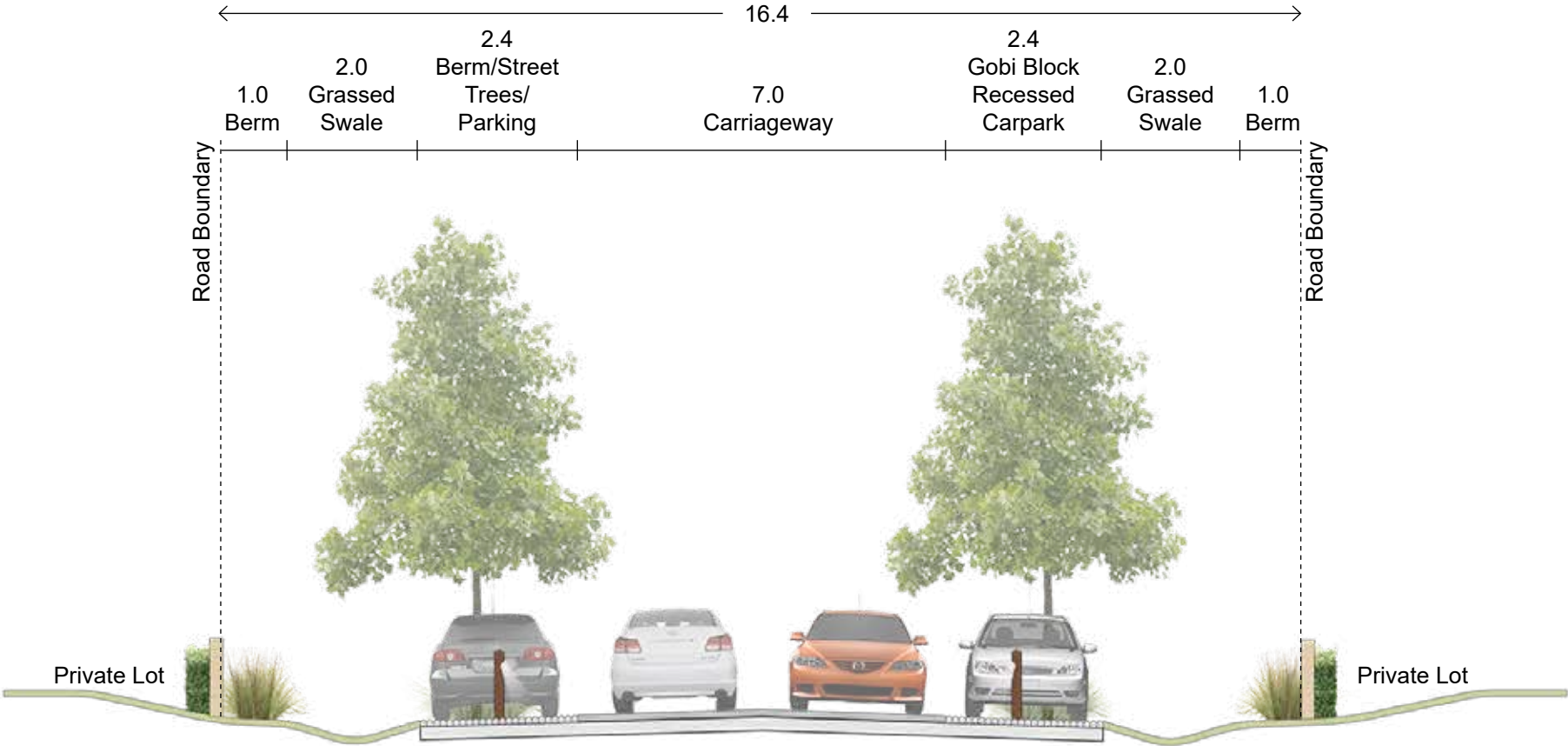
Tertiary Road (B3-A)
Typical Cross Section

Scale 1:100 @A3



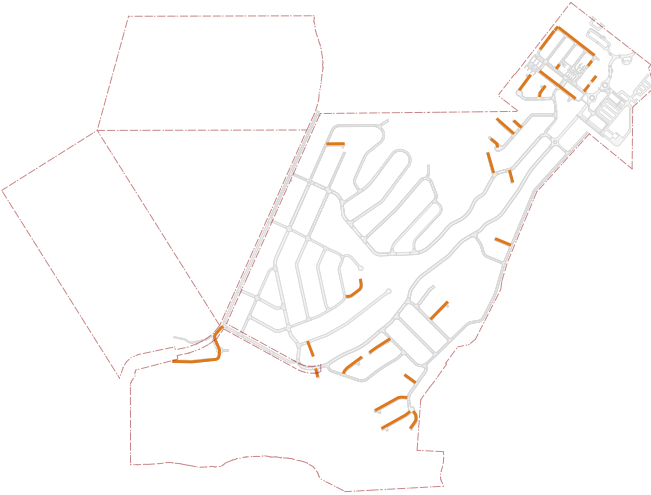
Tertiary Road (B3-C)
Typical Cross Section

Scale 1:100 @A3



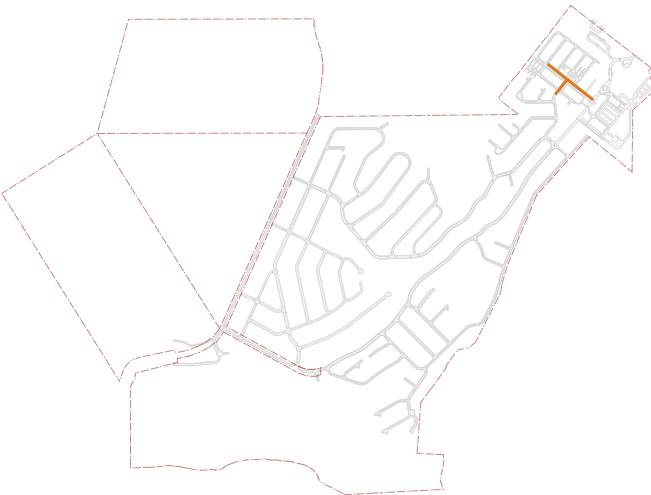
Neighbourhoods

Street Cross Sections



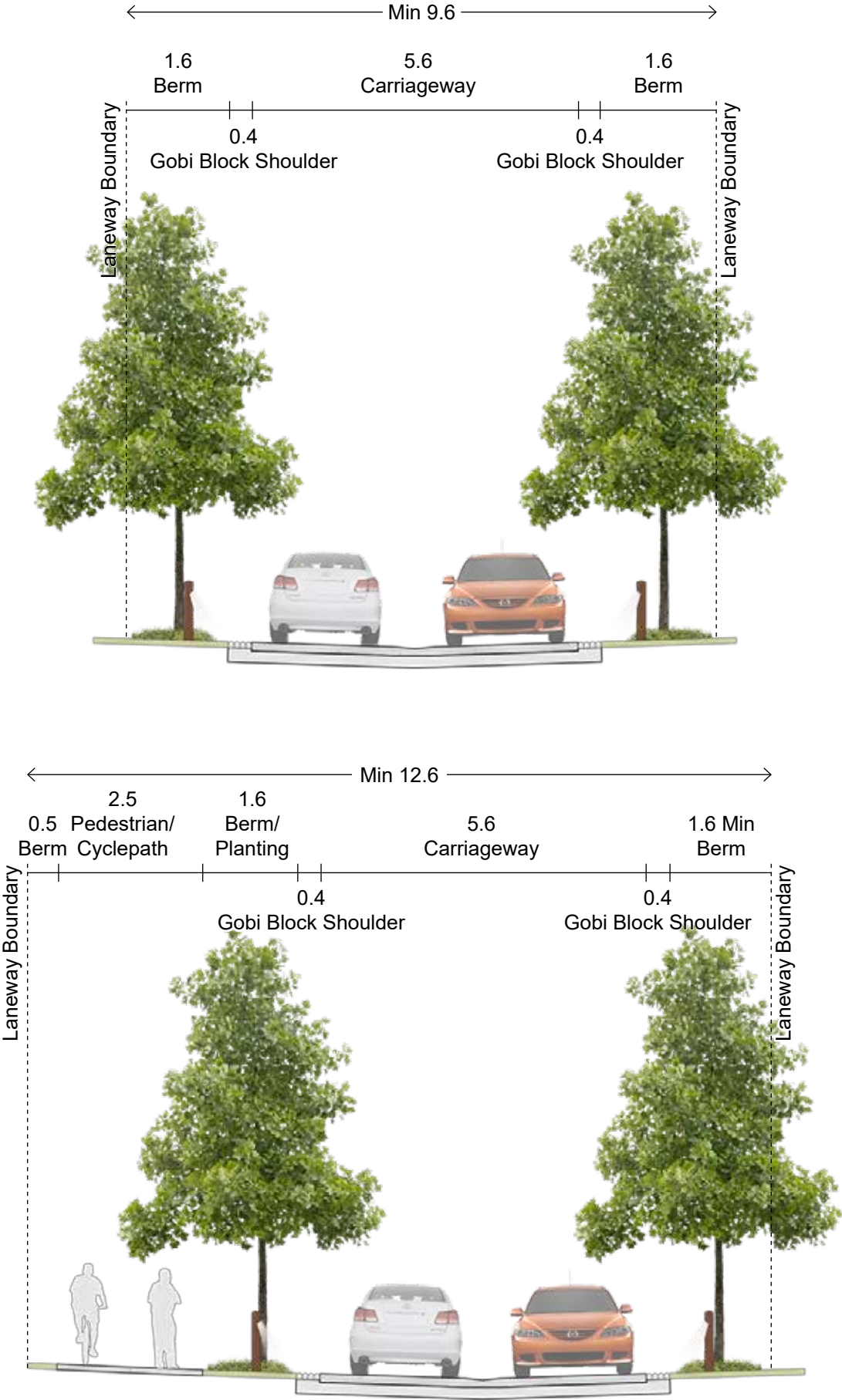
Tertiary Road (C1)
Typical Cross Section

Scale 1:100 @A3



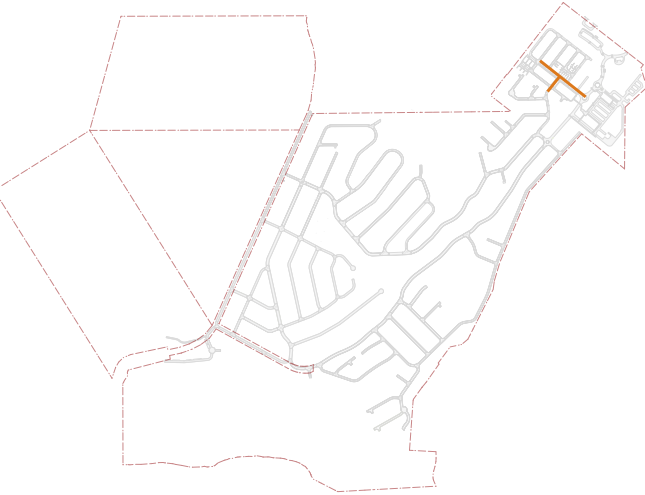
Tertiary Road (C4)
Typical Cross Section

Scale 1:100 @A3



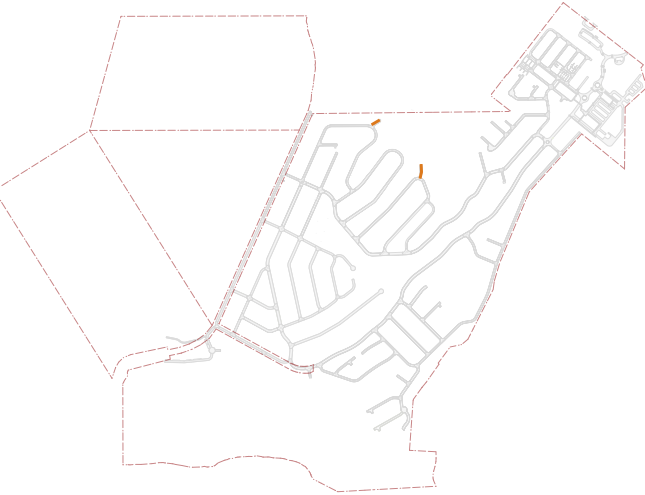
Neighbourhoods

Street Cross Sections



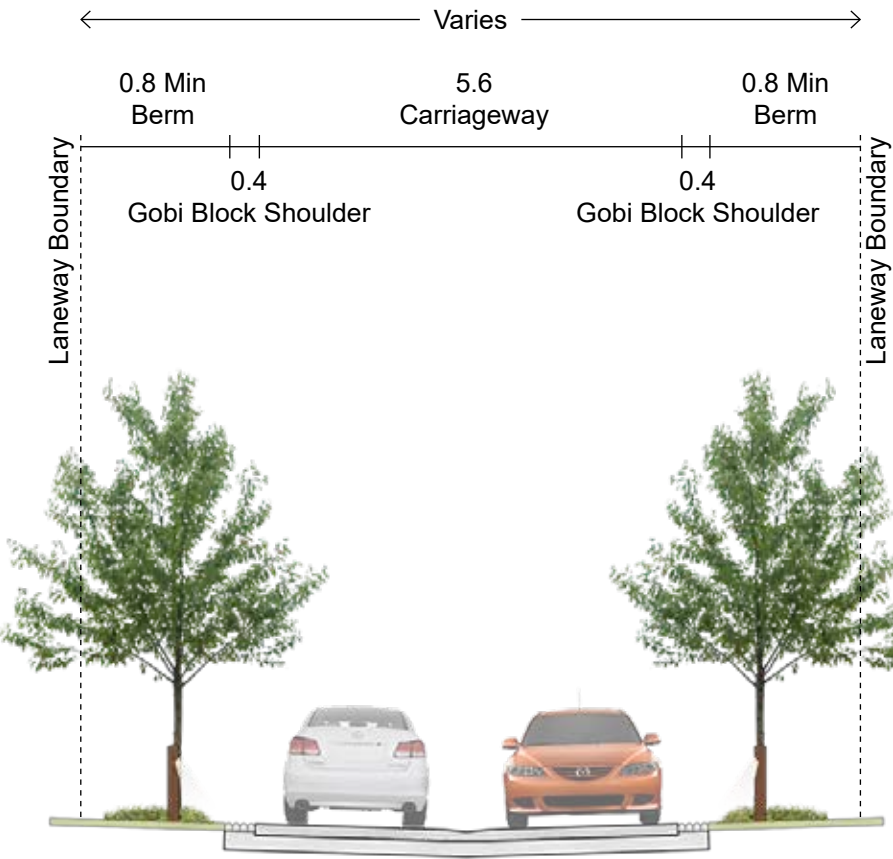
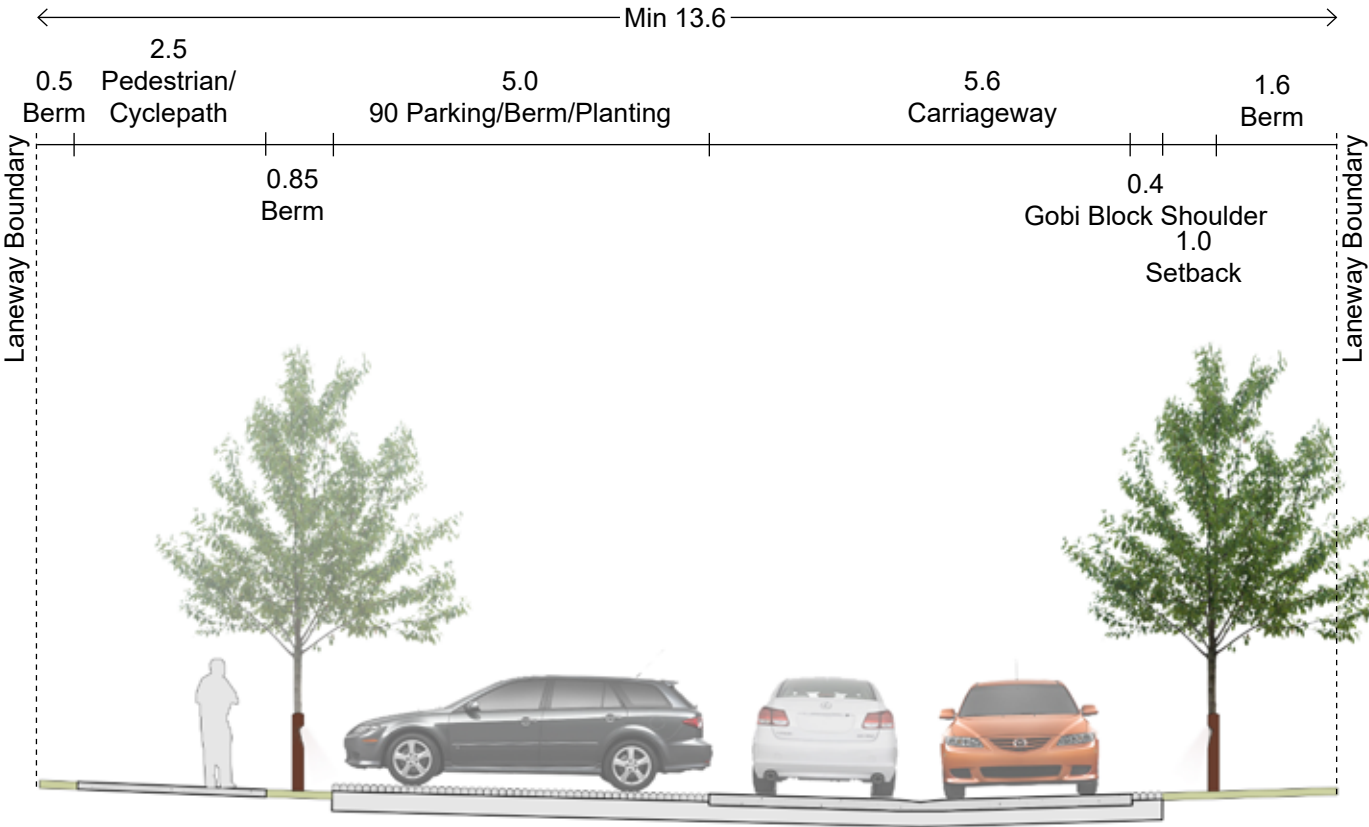
Tertiary Road (C4-A)
Typical Cross Section

Scale 1:100 @A3



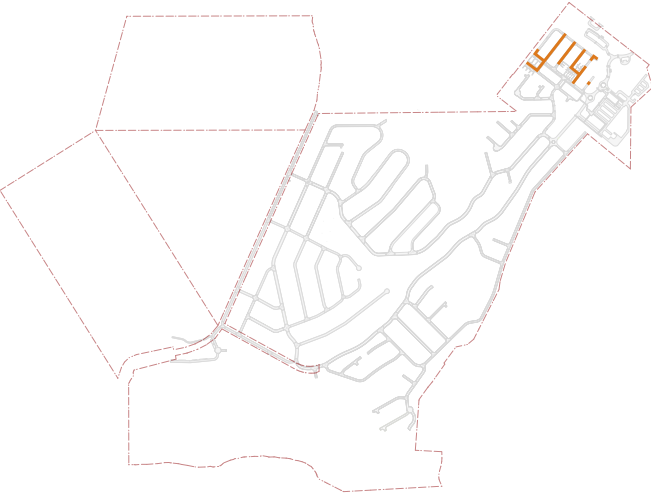
Community Lanes (C2)
Typical Cross Section

Scale 1:100 @A3



Neighbourhoods

Street Cross Sections



Community Lanes (C3)
Typical Cross Section

Scale 1:100 @A3

