

PROJECT NAME

JEFFREYS RESERVE

ADDRESS

18 Jeffreys Road, Fendalton, Christchurch

CLIENT

Christchurch City Council

COMMUNITY PARK TREE PLANTING STUDY

Issued date

28/02/2023



SHEET NO.	SHEET TITLE	SHEET SUBTITLE
P 00	JEFFREYS RESERVE	Community Park Tree Planting Study
P 01	JEFFREYS RESERVE	Existing Planting
P 02	JEFFREYS RESERVE	Tree Planting Zones
P 03	JEFFREYS RESERVE	Lot Boundary Cross Sections
P 04	JEFFREYS RESERVE	Shade Study - Winter Solstice - 8 am
P 05	JEFFREYS RESERVE	Shade Study - Winter Solstice - 10 am
P 06	JEFFREYS RESERVE	Shade Study - Winter Solstice - 12 noon
P 07	JEFFREYS RESERVE	Shade Study - Winter Solstice - 2 pm
P 08	JEFFREYS RESERVE	Shade Study - Winter Solstice - 4 pm
P 09	JEFFREYS RESERVE	Shade Study - Winter Solstice - 6 pm
P 10	JEFFREYS RESERVE	Tree Planting Plan
P 11	JEFFREYS RESERVE	Tree Planting Guidelines



PREPARED BY



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5323



JEFFREYS RESERVE

Community Park Tree Planting

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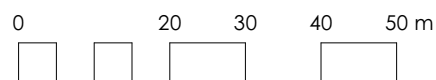
JEFFREYS RESERVE
Existing Planting

LEGEND

- Existing Tree/
Vegetation
- Sports field/ Court

Existing Services

- Stormwater
- Water supply
- Light



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JEFFREYS RESERVE
Tree Planting Zones

LEGEND

- Existing Tree/
Vegetation
- Sports field/ Court

- Existing Services
- Stormwater
 - Water supply
 - Light

- Potential Tree Planting Areas
- 5m - 10m
Trees Height Zone
 - 10m - 20m
Trees Height Zone
 - 20m+
Trees Height Zone

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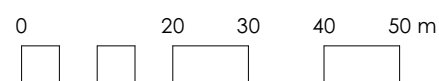


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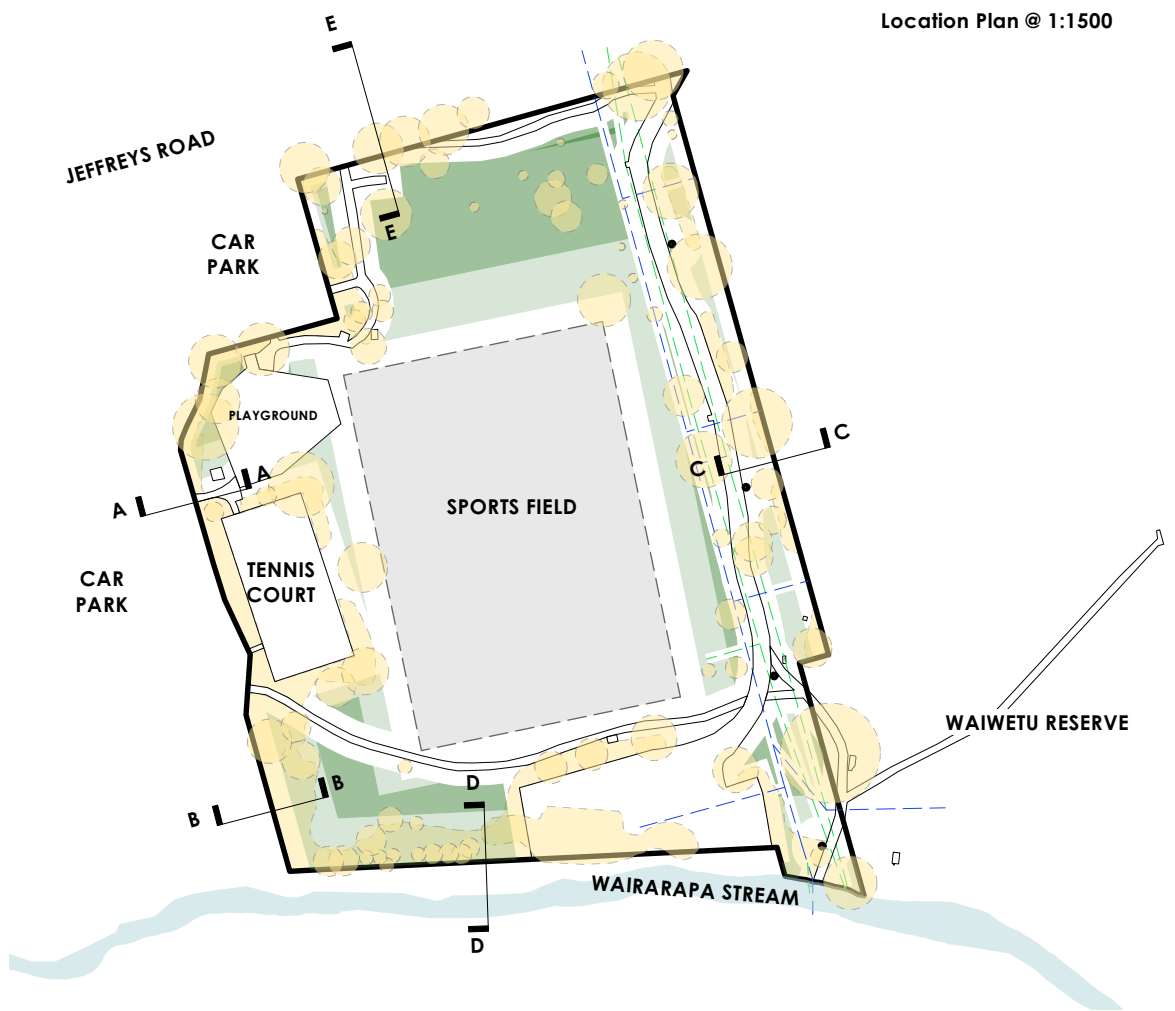
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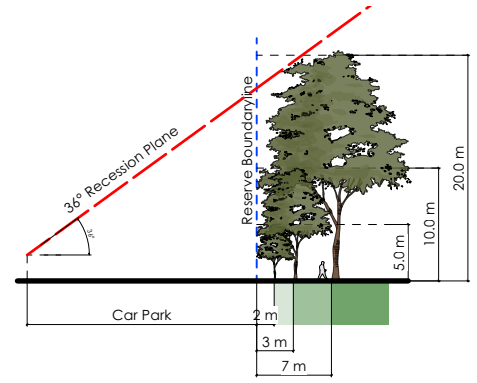


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 Community Park Tree Planting
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JEFFREYS RESERVE
 Tree Planting Zones
 Lot Boundary Cross Sections

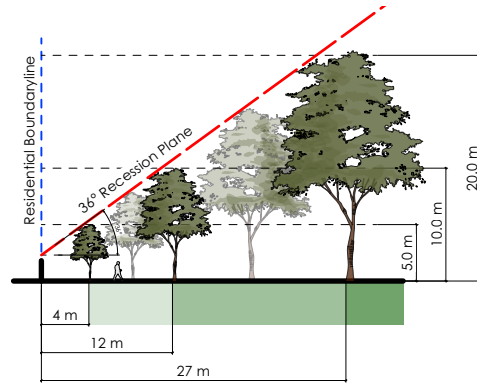


- LEGEND**
- Existing Tree/ Vegetation
 - Sports field/ Court
 - Existing Services
 - Stormwater
 - Water supply
 - Light
 - Potential Tree Planting Areas
 - 5m - 10m Trees Height Zone
 - 10m - 20m Trees Height Zone
 - 20m+ Trees Height Zone

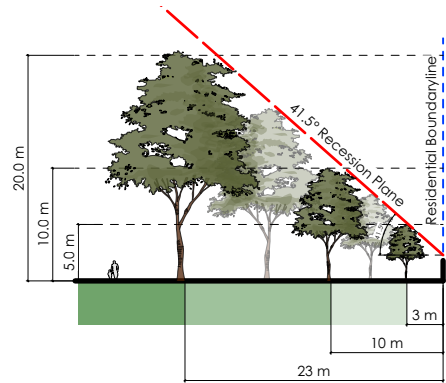
INDICATIVE CROSS SECTION THROUGH THE BOUNDARIES



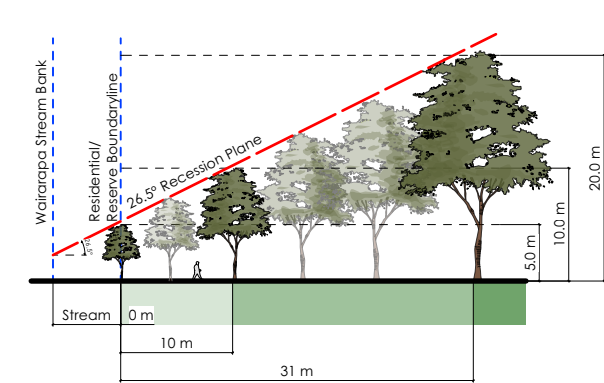
Cross Section A-A



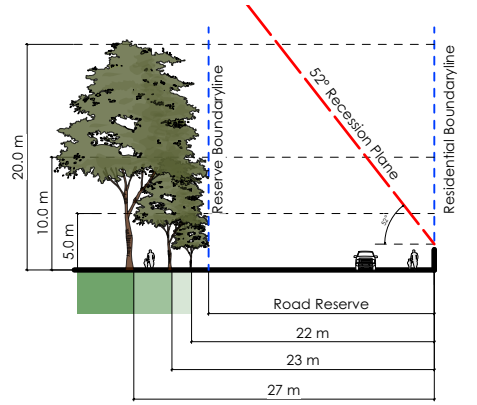
Cross Section B-B



Cross Section C-C



Cross Section D-D



Cross Section E-E

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Winter Solstice

Date: 22nd June



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Shade Study - Winter Solstice

8AM

8AM



Note:
Trees in the model are shown
at 5m, 10m, 20m height

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Winter Solstice

Date: 22nd June

10AM



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Shade Study - Winter Solstice

10AM

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Winter Solstice

Date: 22nd June



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Shade Study - Winter Solstice

12NOON

12NOON



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Winter Solstice

Date: 22nd June



2PM



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Shade Study - Winter Solstice

2PM

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Winter Solstice

Date: 22nd June



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Shade Study - Winter Solstice

4PM

4PM



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Winter Solstice

Date: 22nd June



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JEFFREYS RESERVE

Shade Study - Winter Solstice

6PM

6PM



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JEFFREYS RESERVE

Community Park Tree Planting

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JEFFREYS RESERVE
Tree Planting Plan

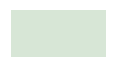



LEGEND

-  Existing Tree/
Vegetation
-  Sports field/ Court

Existing Services

-  Stormwater
-  Water supply
-  Light

Potential Tree Planting Areas

-  5m - 10m
Trees Height Zone
-  10m - 20m
Trees Height Zone
-  20m+
Trees Height Zone
-  Proposed trees

Note:
Contractor to confirm service and irrigation locations using on site service locators prior to commencing work.

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D	21.02.23	JG	PLANTING PLAN
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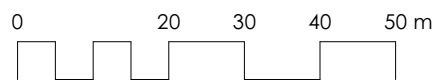
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PLANT SCHEDULE - JEFFREYS RESERVE			
ID	Qty	Botanical Name	Common Name
TREE HEIGHT 5-10M			
Ac.b.	2	Acer buergerianum	Trident Maple
Ar. s.	3	Aristotelia serrata	Wineberry/Makamako
Co. f.	4	Cornus florida	Dogwood
Co.ro.	6	Coprosma robusta	Karamu
Ho.l.	3	Hoheria lyallii	Mountain Lacebark
Li.s.	3	Ligustrum sinense	Chinese privet
My.a.	3	Myrsine australis	Red Matipo
My.l.	3	Myoporum laetum	Ngaio
Pi.t.	9	Pittosporum tenuifolium	Kohuhu
Pr.se.	5	Prunus serrulata	Flowering Cherry
Py.c.A.	2	Pyrus calleryana 'Aristocrat'	Ornamental Pear
So.mi.	4	Sorbus microphylla	Small Leaf Rowan
TREE HEIGHT 11-15M			
Ca.be.	2	Carpinus betulus	European Hornbeam
Ma.k.	4	Magnolia kobus	Kobus Magnolia
Pl.r.	5	Plagianthus regius	Ribbonwood / Manatu
So.f.	1	Sophora tetraptera	North Island Kowhai
Ti.c.	1	Tilia cordata	Small-leaved/Linden Lime
TREE HEIGHT 16-20M			
Al.e.	1	Alectryon excelsus	NZ oak/titoki
Co.a.	2	Cordyline australis	Cabbage tree / Ti Kouka
Ho.a.	3	Hoheria angustifolia	Narrow leaved lacebark / Houhere
Li.f.	1	Liquidambar formosana	Formosan Gum
Pi.eu.	1	Pittosporum eugenoides	Lemonwood / Tarata
So.m.	1	Sophora microphylla	Kowhai
TREE HEIGHT 20M+			
Po.t.	1	Podocarpus totara	Totara

JEFFREYS RESERVE		
Park Canopy Cover Summary		
Existing number of trees		83
Existing canopy cover	approx.	29%
Proposed number of new trees		70
Proposed net canopy cover (existing vegetation and proposed)	approx.	48%





LEGEND

- Existing Tree/Vegetation
- Sports field/ Court
- Existing Services
 - Stormwater
 - Water supply
 - Light
- Potential Tree Planting Areas
 - 5m - 10m Trees Height Zone
 - 10m - 20m Trees Height Zone
 - 20m+ Trees Height Zone

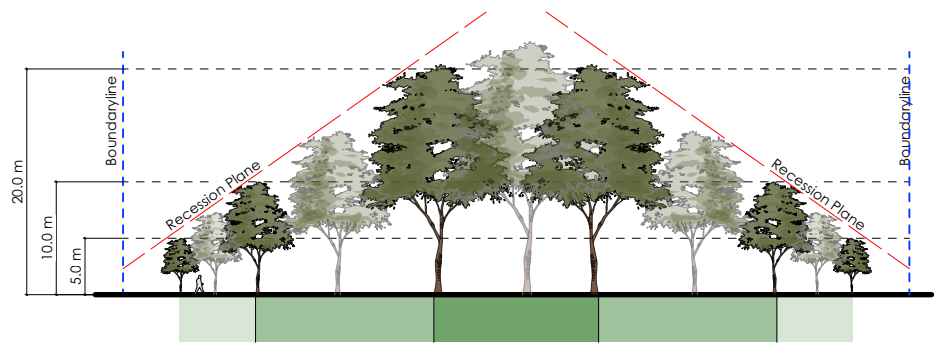
Guideline Summary

- Tree planting to Special Character Parks will continue the established theme.
- Trees will be positioned appropriately to allow for debris management.
- Tree species shall be well suited to the local conditions.
- Planting along waterways will be predominantly native species.
- CCC will aim for 40-60% of new tree plantings as natives.

Tree Setbacks & Spacings

- No tree shall intrude through the recession plane.
- No tree shall be planted closer than 3.0m from a pathway.
- No tree shall be planted closer than 5.0m from a sports field and no tree canopy drip line shall extend above a sports field.
- Tree spacings shall be a minimum of 5.0m apart to allow for easy lawn mowing.
- Min. 2m offset for low voltage power
- Min. 3m offset for 11kv power
- Min. 5m offset for 33-66kv
- Min. 1m offset for all other services and hard paving not mentioned above.

Typical tree planting pattern



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