

PROJECT NAME

AKAROA RECREATION GROUND

ADDRESS

28 Rue Lavaud, Akaroa, Christchurch

CLIENT

Christchurch City Council

Community Park Tree Planting Study

Issued date

28/02/2023



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



PREPARED BY



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REFERENCE NO.

5323



AKAROA RECREATION GROUND

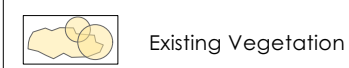
Community Park Tree Planting

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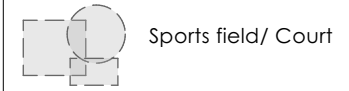
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AKAROA RECREATION GROUND
Existing Planting

LEGEND



Existing Vegetation



Sports field/ Court

Existing Services



Stormwater



Water supply



Wastewater



Light



SEA

JUBILEE PARK

GREHAN STREAM

CAR PARK

CAR PARK

CROQUET CLUB

TENNIS COURT

TENNIS COURT

MINI GOLF

GREHAN STREAM

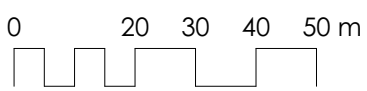
RUE JOLIE

CAR PARK

SPORTS FIELD

RUE LAVAUD

RUE BRITTAN



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REF. NO. 5323 PAGE P 01
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AKAROA RECREATION GROUND

Community Park Tree Planting

ADDRESS
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AKAROA RECREATION GROUND Tree Planting Zones

LEGEND

Existing vegetation

Sports field/ Court

Existing Services

Stormwater

Water supply

Wastewater

Light

Potential Tree Planting Areas

5m - 10m
Trees Height Zone

10m - 20m
Trees Height Zone

20m+
Trees Height Zone

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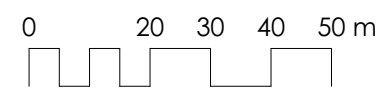


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PAGE REVISION P 02
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SEA

JUBILEE PARK

GREHAN STREAM

CAR PARK

CAR PARK

CROQUET CLUB

TENNIS COURT

TENNIS COURT

MINI GOLF

GREHAN STREAM

RUE JOLIE

CAR PARK

SPORTS FIELD

RUE LAVAUD

RUE BRITTAN



AKAROA RECREATION GROUND

Community Park Tree Planting

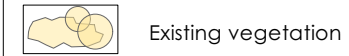
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AKAROA RECREATION GROUND
Tree Planting Zones

Lot Boundary Cross Sections

LEGEND



Existing vegetation

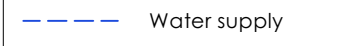


Sports field/ Court

Existing Services



Stormwater



Water supply

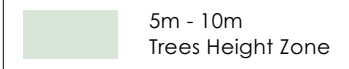


Wastewater

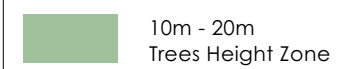


Light

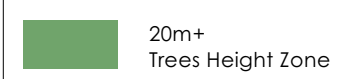
Potential Tree Planting Areas



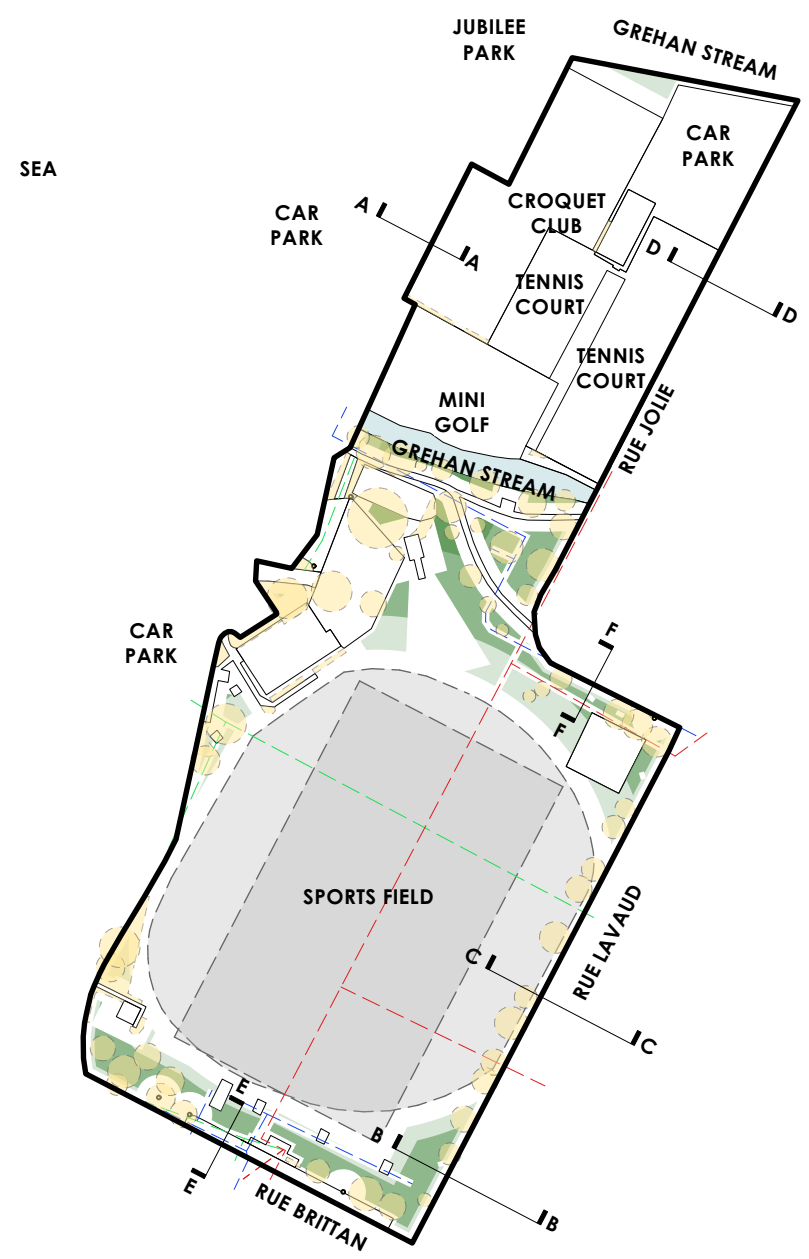
5m - 10m
Trees Height Zone



10m - 20m
Trees Height Zone

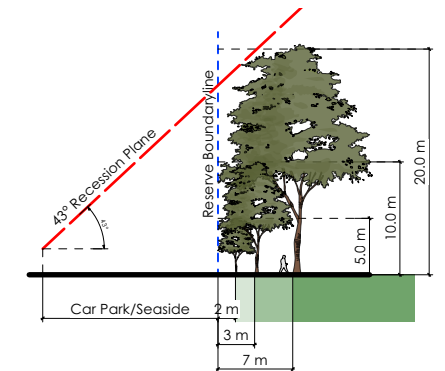


20m+
Trees Height Zone

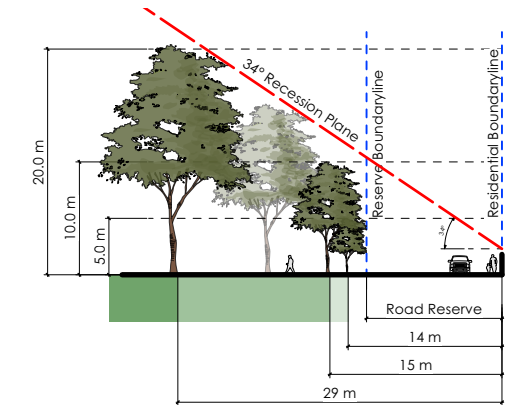


Location Plan @ 1:2000

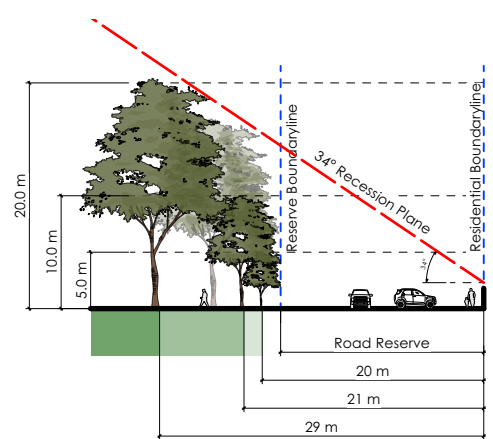
INDICATIVE CROSS SECTION THROUGH THE BOUNDARIES



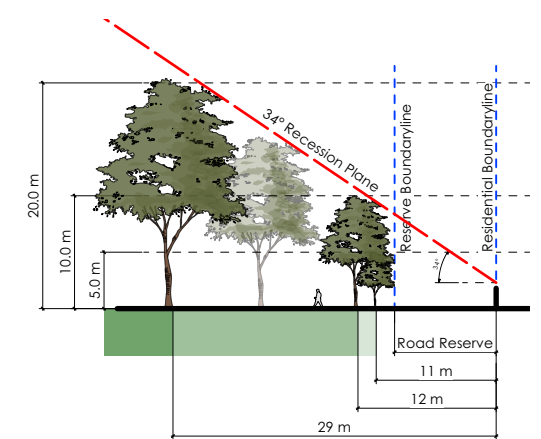
Cross Section A-A



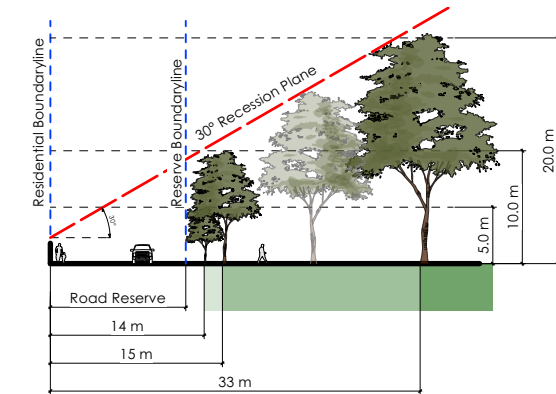
Cross Section B-B
(12m Road)



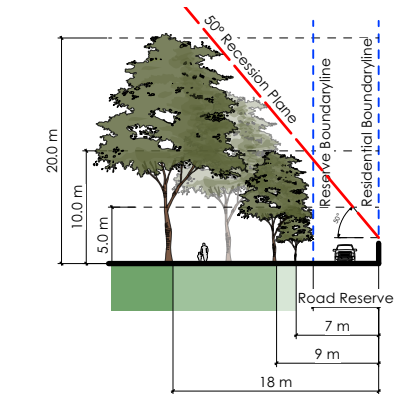
Cross Section C-C
(18m Road)



Cross Section D-D
(9m Road)



Cross Section E-E



Cross Section F-F

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REF. NO. 5323 PAGE P 03
REVISION D

Winter Solstice

Date: 22nd June



8AM



AKAROA RECREATION GROUND

Community Park Tree Planting

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AKAROA RECREATION GROUND

Shade Study - Winter Solstice

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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AKAROA RECREATION GROUND
Shade Study - Winter Solstice

10AM

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Winter Solstice

Date: 22nd June

12 NOON



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AKAROA RECREATION GROUND
Shade Study - Winter Solstice

12NOON

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Winter Solstice

Date: 22nd June



2PM



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AKAROA RECREATION GROUND

Shade Study - Winter Solstice

2PM

Note:
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Winter Solstice

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4PM



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AKAROA RECREATION GROUND
Shade Study - Winter Solstice

4PM

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Winter Solstice

Date: 22nd June



6PM



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AKAROA RECREATION GROUND
Shade Study - Winter Solstice

6PM

Note:
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AKAROA RECREATION GROUND

Community Park Tree Planting
 ADDRESS
 28 Rue Lavaud, Akaroa, Christchurch





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AKAROA RECREATION GROUND Tree Planting Plan




LEGEND

-  Existing vegetation
-  Sports field/ Court

Existing Services

-  Stormwater
-  Water supply
-  Wastewater
-  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.

REV	DATE	BY	ISSUE
D	28.02.23	JG	PRELIMINARY
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PLANT SCHEDULE - AKAROA RECREATION GROUND

ID	Qty	Botanical Name	Common Name
TREE HEIGHT 5-10M			
Co.g.	3	Cotoneaster glaucophyllus	Bright Bead Cotoneaster
Fr.s.	4	Fraxinus sieboldiana	Siebold Ash
Gr.lu.	7	Griselinia lucida	Puka/Broadleaf
La.i.	2	Lagerstroemia indica	Crape Myrtle
My.a.	3	Myrsine australis	Red Matipo
My.l.	6	Myoporum laetum	Ngaio
Ol.p.	2	Olearia paniculata	Akiraho
Pi.t.	7	Pittosporum tenuifolium	Kohuhu
Pr.se.	9	Prunus serrulata	Flowering Cherry
Sc.m.	6	Schinus molle	Pepper tree
TREE HEIGHT 11-15M			
Co.la.	5	Corynocarpus laevigatus	karaka
Ma.de.	4	Magnolia denudata	Yulan magnolia
Pl.r.	2	Plagianthus regius	Ribbonwood / Manatu
Ul.p.	4	Ulmus parvifolia	Chinese Elm
TREE HEIGHT 16-20M			
So.m.	4	Sophora microphylla	Kowhai
TREE HEIGHT 20M+			
Po.t.	2	Podocarpus totara	Totara

AKAROA RECREATION GROUND

Park Canopy Cover Summary		
Existing number of trees		44
Existing canopy cover	approx.	8%
Proposed number of new trees		70
Proposed net canopy cover(existing vegetation and proposed)	approx.	17%





AKAROA RECREATION GROUND

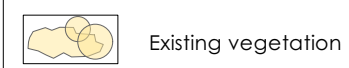
Community Park Tree Planting

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AKAROA RECREATION GROUND Tree Planting Guidelines

LEGEND



Existing vegetation



Sports field/ Court

Existing Services



Stormwater



Water supply

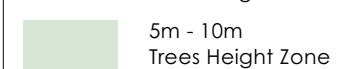


Wastewater

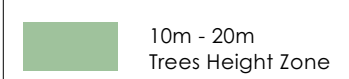


Light

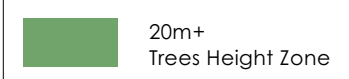
Potential Tree Planting Areas



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Trees Height Zone



10m - 20m
Trees Height Zone



20m+
Trees Height Zone



SEA

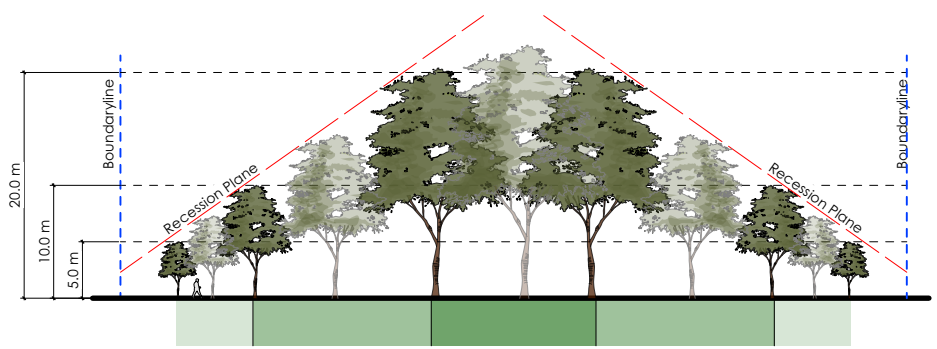
Guideline Summary

- 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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5323	REVISION	D