

PROJECT NAME

AVONHEAD PARK

ADDRESS

146 Hawthornden Road, Avonhead, Christchurch 8042

CLIENT

Christchurch City Council

COMMUNITY PARK TREE PLANTING STUDY

Issued date

22/04/2025



SHEET NO.	SHEET TITLE	SHEET SUBTITLE
P 00	AVONHEAD PARK	Community Park Tree Planting Study
P 01	AVONHEAD PARK	Existing Planting
P 02	AVONHEAD PARK	Tree Planting Zones
P 03	AVONHEAD PARK	Tree Planting Zones - Lot Boundary Cross Sections
P 04	AVONHEAD PARK	Shade Study - Winter Solstice - 8 am
P 05	AVONHEAD PARK	Shade Study - Winter Solstice - 10 am
P 06	AVONHEAD PARK	Shade Study - Winter Solstice - 12 noon
P 07	AVONHEAD PARK	Shade Study - Winter Solstice - 2 pm
P 08	AVONHEAD PARK	Shade Study - Winter Solstice - 4 pm
P 09	AVONHEAD PARK	Shade Study - Winter Solstice - 6 pm
P 10	AVONHEAD PARK	Shade Study - Summer Solstice - 8 am
P 11	AVONHEAD PARK	Shade Study - Summer Solstice - 10 am
P 12	AVONHEAD PARK	Shade Study - Summer Solstice - 12 noon
P 13	AVONHEAD PARK	Shade Study - Summer Solstice - 2 pm
P 14	AVONHEAD PARK	Shade Study - Summer Solstice - 4 pm
P 15	AVONHEAD PARK	Shade Study - Summer Solstice - 6 pm
P 16	AVONHEAD PARK	Tree Planting Plan
P 17	AVONHEAD PARK	Tree Planting Guidelines



PREPARED BY



Te Uruti Building, 48 Hereford St, PO Box 2833, Christchurch 8140
Mountaineer Building, 32 Rees St, Queenstown 9300

T. 03 366 8181 E. admin@kamomارش.co.nz W. kamomارش.co.nz

REFERENCE NO.

5373



AVONHEAD PARK

Community Park Tree Planting

ADDRESS
146 Hawthornden Road,
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AVONHEAD PARK
Existing Planting

LEGEND

Existing Tree/
Vegetation

Existing
Mound/Contour

Existing Services

Light
 Stormwater
 Wastewater
 Power (LV)
 Power (11kV)

Existing Overhead Powerline

Power tower and
overhead powerline
 Blowout Area
Max. tree height: 4m
 Blowout Area
Max. tree height: 3m
 Blowout Area
Max. Vegetation
height: 2m

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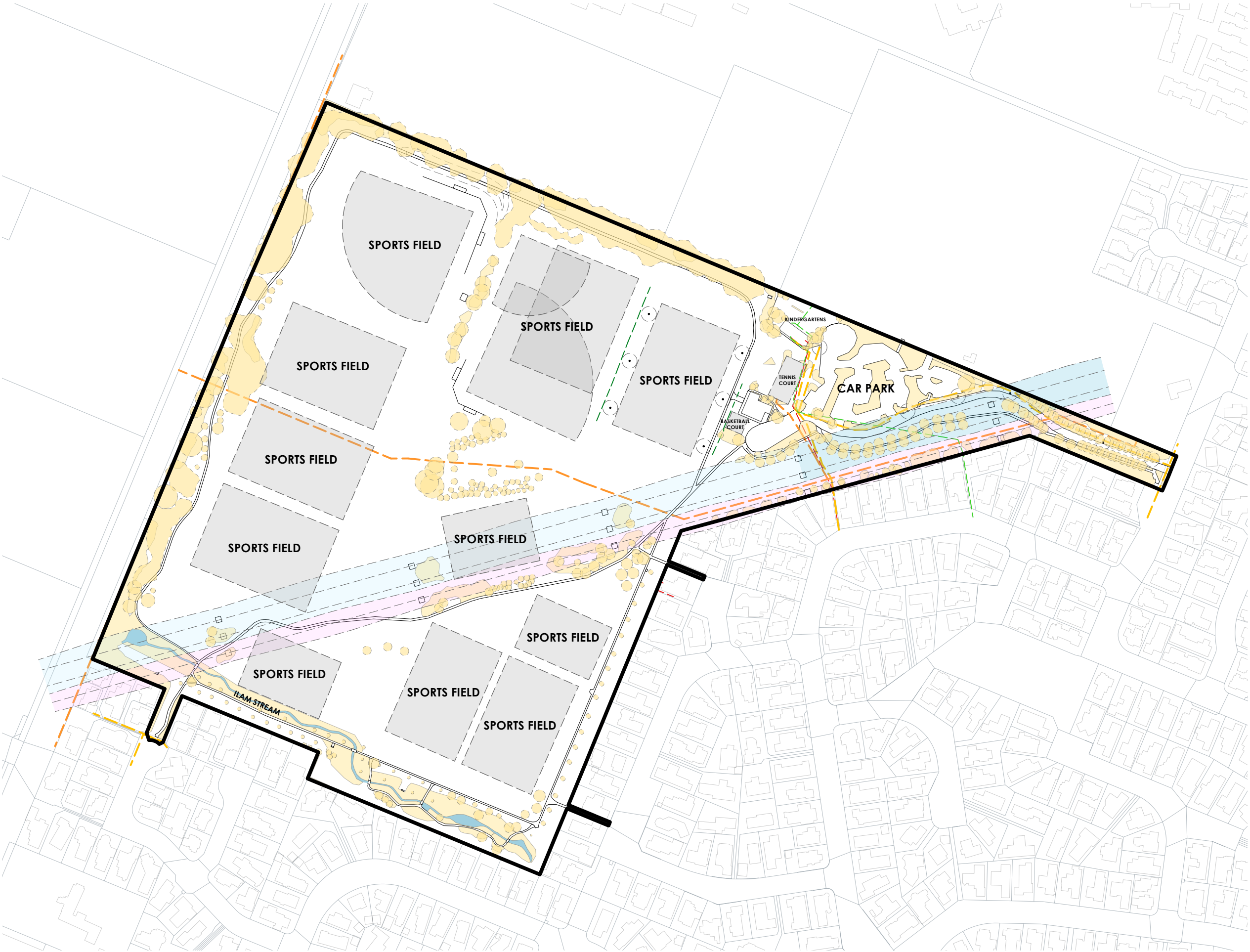


Te Uruti Building, 48 Hereford St, PO Box 2833, Christchurch 8140
Mountaineer Building, 32 Rees St, Queenstown 9300

T. 03 3668 181
E. admin@kamommarsh.co.nz
W. kamommarsh.co.nz

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AVONHEAD PARK

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AVONHEAD PARK
Tree Planting Zones

LEGEND

 Existing Tree/
Vegetation

 Existing
Mound/Contour

Existing Services

 Light
 Stormwater
 Wastewater
 Power (LV)
 Power (11kV)

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 Blowout Area
Max. tree height: 4m
 Blowout Area
Max. tree height: 3m
 Blowout Area
Max. Vegetation
height: 2m

Potential Tree Planting Areas

 5m - 10m
Trees Height Zone
 10m - 15m
Trees Height Zone
 15m - 20m
Trees Height Zone
 20m+
Trees Height Zone

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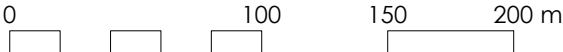
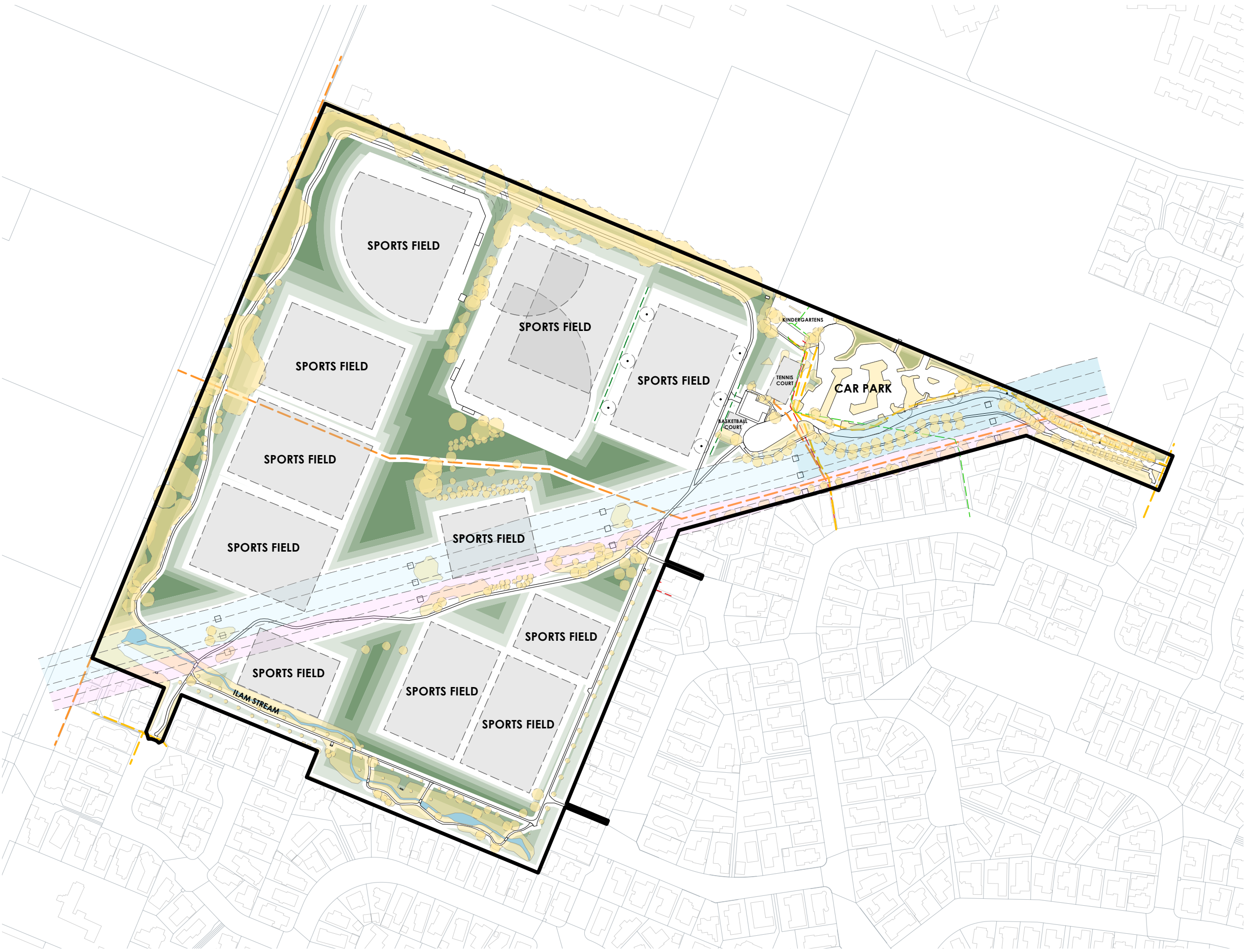
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AVONHEAD PARK
Tree Planting Zones

Lot Boundary Cross Sections

LEGEND

Existing Tree/
Vegetation

Existing
Mound/Contour

Existing Services

Light
 Stormwater
 Wastewater
 Power (LV)
 Power (11kV)

Existing Overhead Powerline

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 20m+
Trees Height Zone

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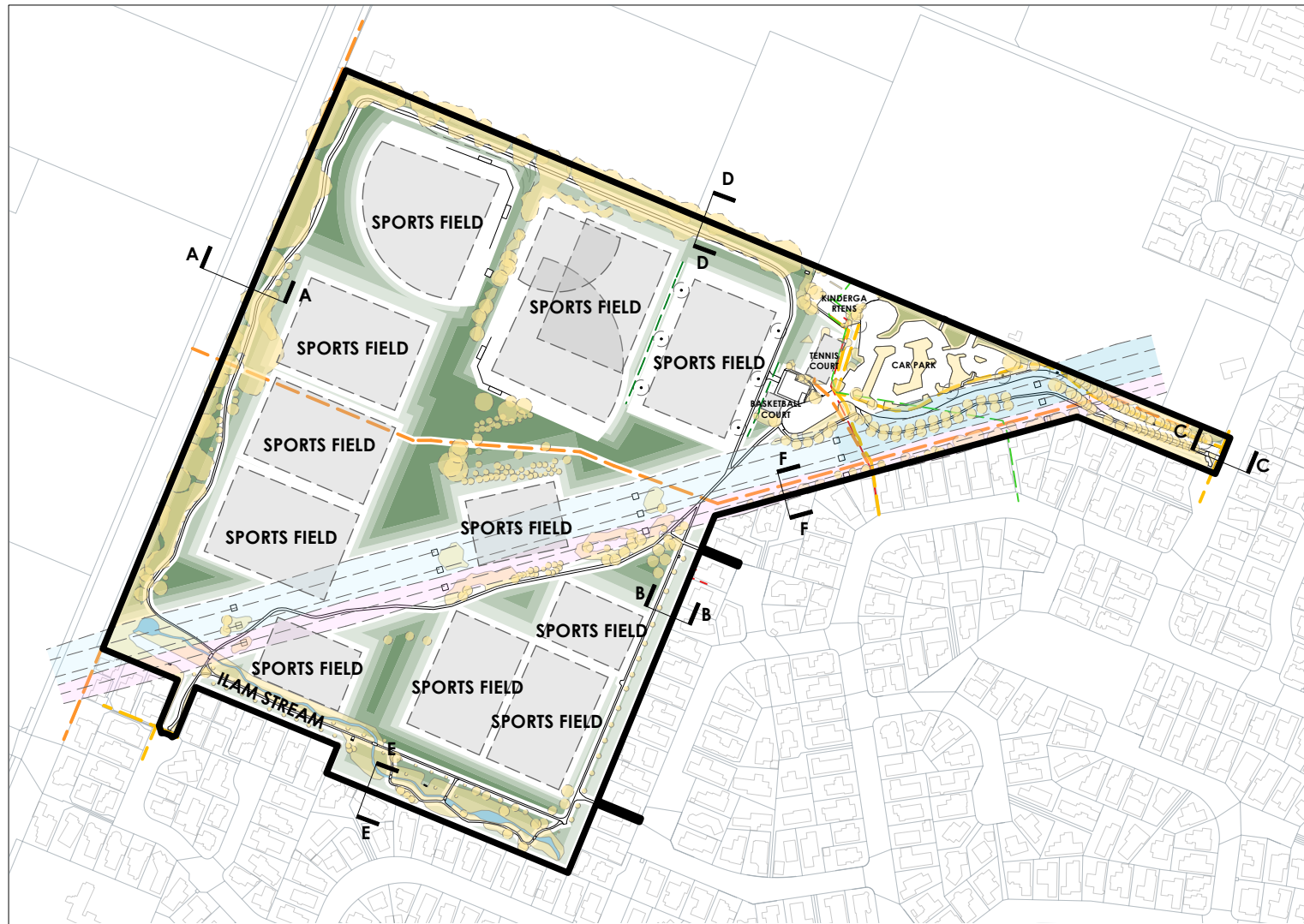


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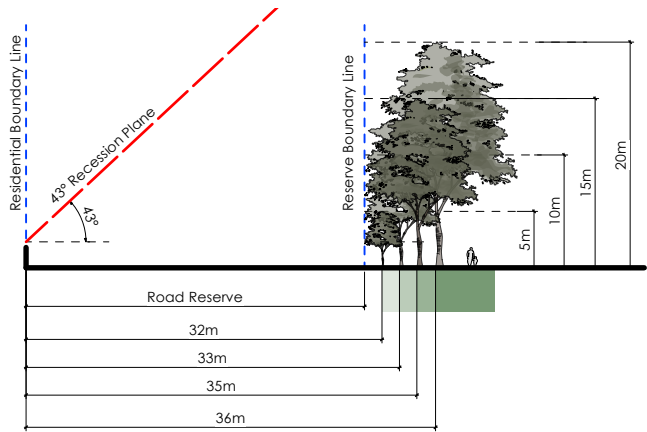
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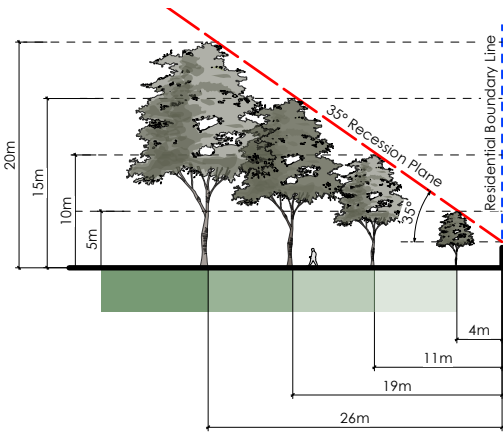
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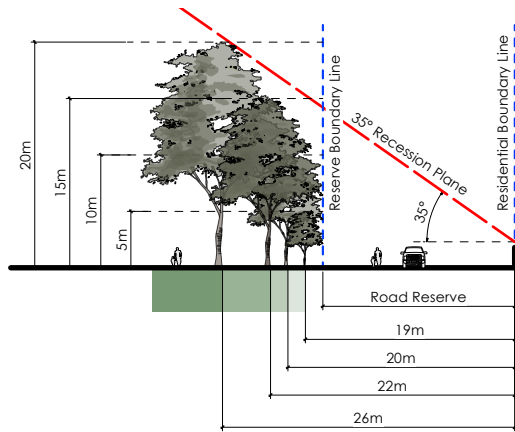
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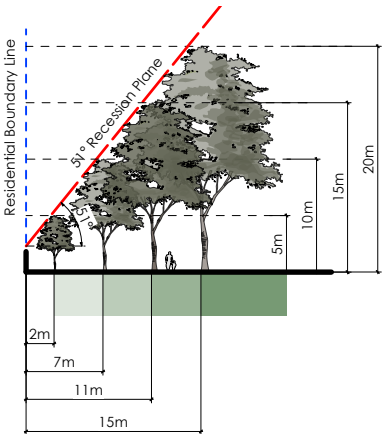
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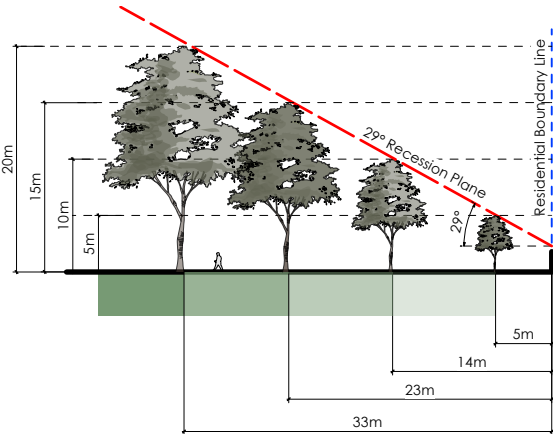
Cross Section B-B



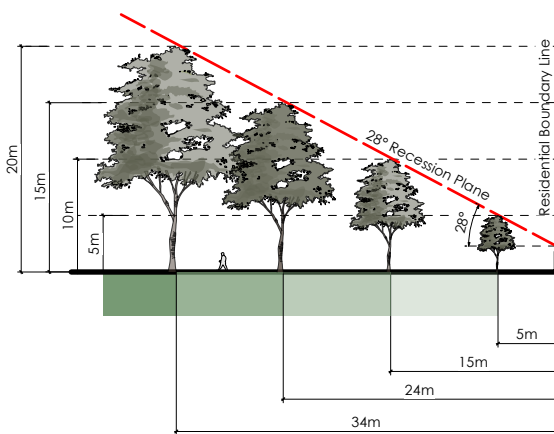
Cross Section C-C



Cross Section D-D



Cross Section E-E



Cross Section F-F

Winter Solstice
Date: 22nd June

8 am



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AVONHEAD PARK
Shade Study - Winter Solstice

8 am

Note:
Trees in the model are shown
at 3m, 4m, 10m, 15m, 20m, 25m
height

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Mountaineer Building, 32 Rees St. Queenstown 9300

T. 03 3668 181
E. admin@kamomارش.co.nz
W. kamomارش.co.nz

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T. 03 3668 181
E. admin@kamommarsh.co.nz
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Winter Solstice
Date: 22nd June

2 pm



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AVONHEAD PARK
Shade Study - Winter Solstice

2 pm

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W. kamommarsh.co.nz

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E. admin@kamommarsh.co.nz
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AVONHEAD PARK

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AVONHEAD PARK
Shade Study - Winter Solstice

6 pm

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T. 03 3668 181
E. admin@kamomارش.co.nz
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8 am



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AVONHEAD PARK
Shade Study - Summer Solstice

8 am

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10 am



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Shade Study - Summer Solstice

10 am

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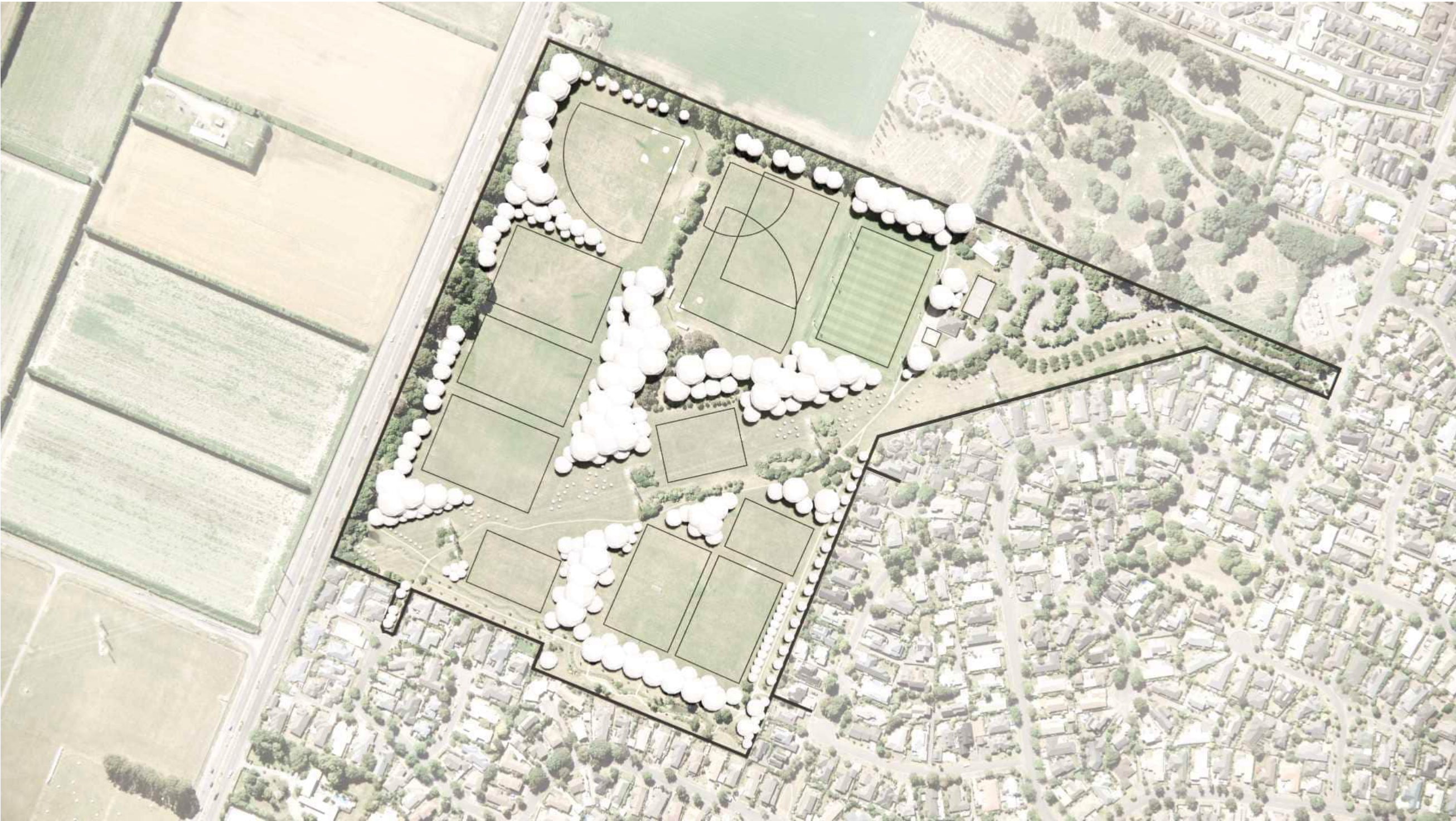
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12 noon



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AVONHEAD PARK

Shade Study - Summer Solstice

12 noon

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2 pm



Note:
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height

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T. 03 3668 181
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4 pm



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Shade Study - Summer Solstice

4 pm

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6 pm



AVONHEAD PARK

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Shade Study - Summer Solstice

6 pm

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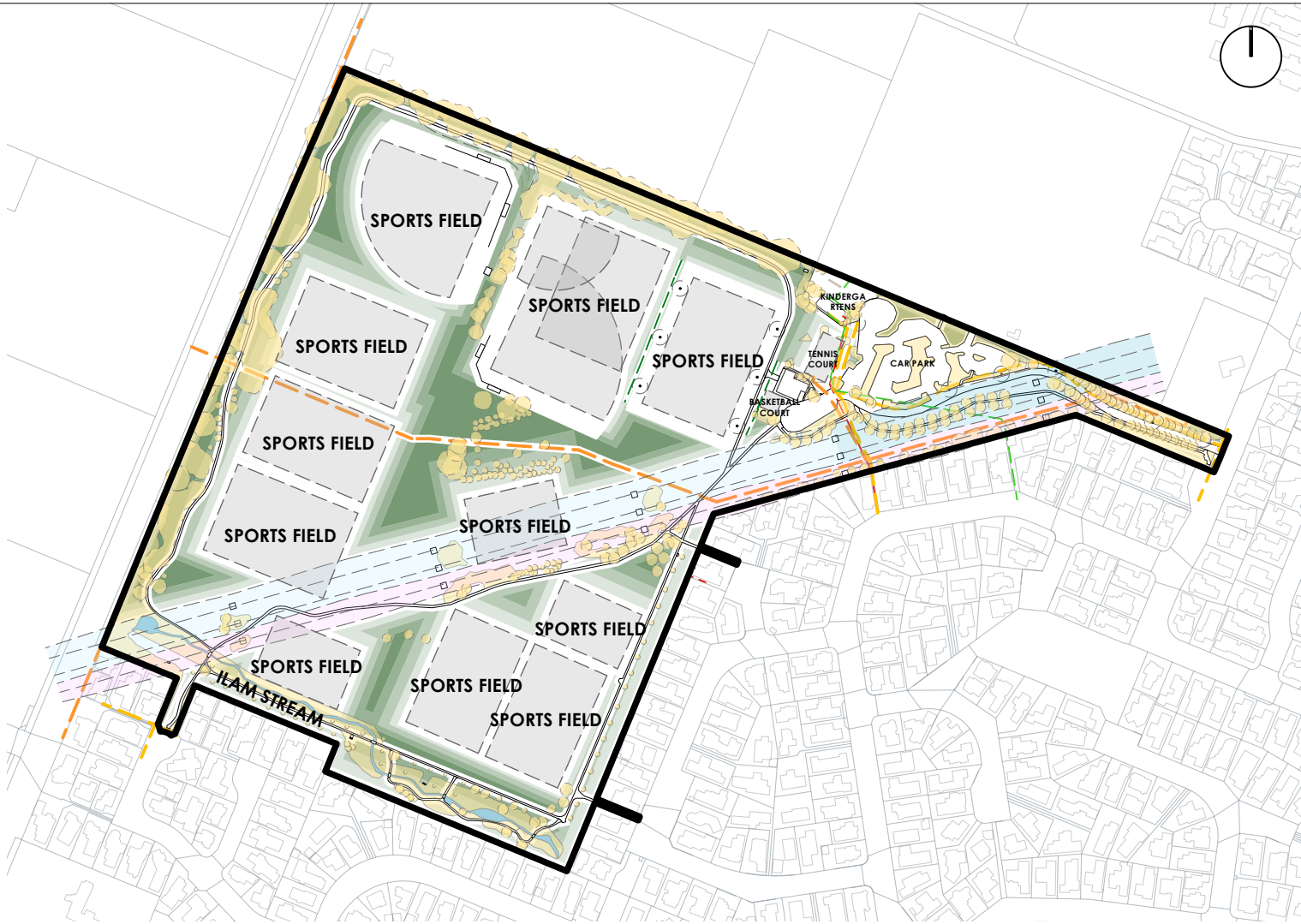
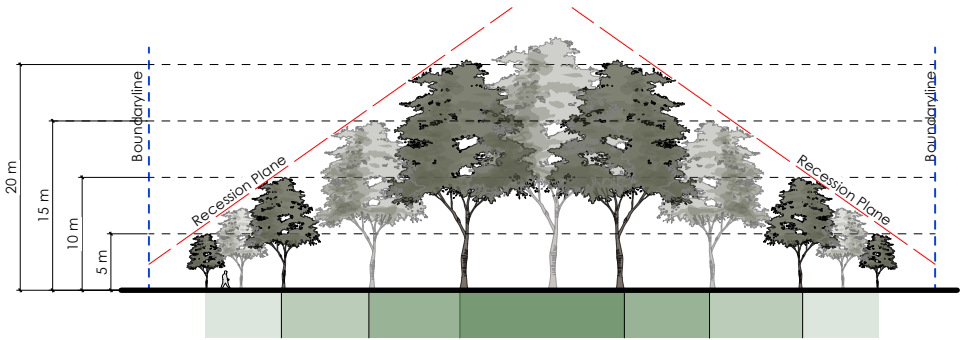
Guideline Summary

- 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. 2.0m offset for all other services not mentioned above.
- Min. 1.5m offset for all hard paving not mentioned above.

Typical tree planting pattern



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AVONHEAD PARK

Tree Planting Guidelines

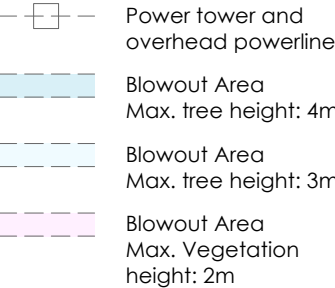
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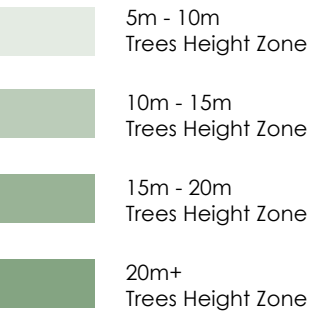
Existing Services



Existing Overhead Powerline



Potential Tree Planting Areas



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