

PROJECT NAME

# REDWOOD PARK

ADDRESS

44 Sturrocks Road, Redwood, Christchurch

CLIENT

Christchurch City Council

## COMMUNITY PARK TREE PLANTING STUDY

Issued date

24/02/2023



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



PREPARED BY



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5323







**REDWOOD PARK**  
Community Park Tree Planting

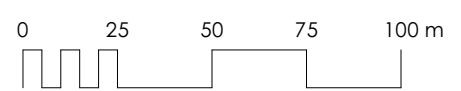
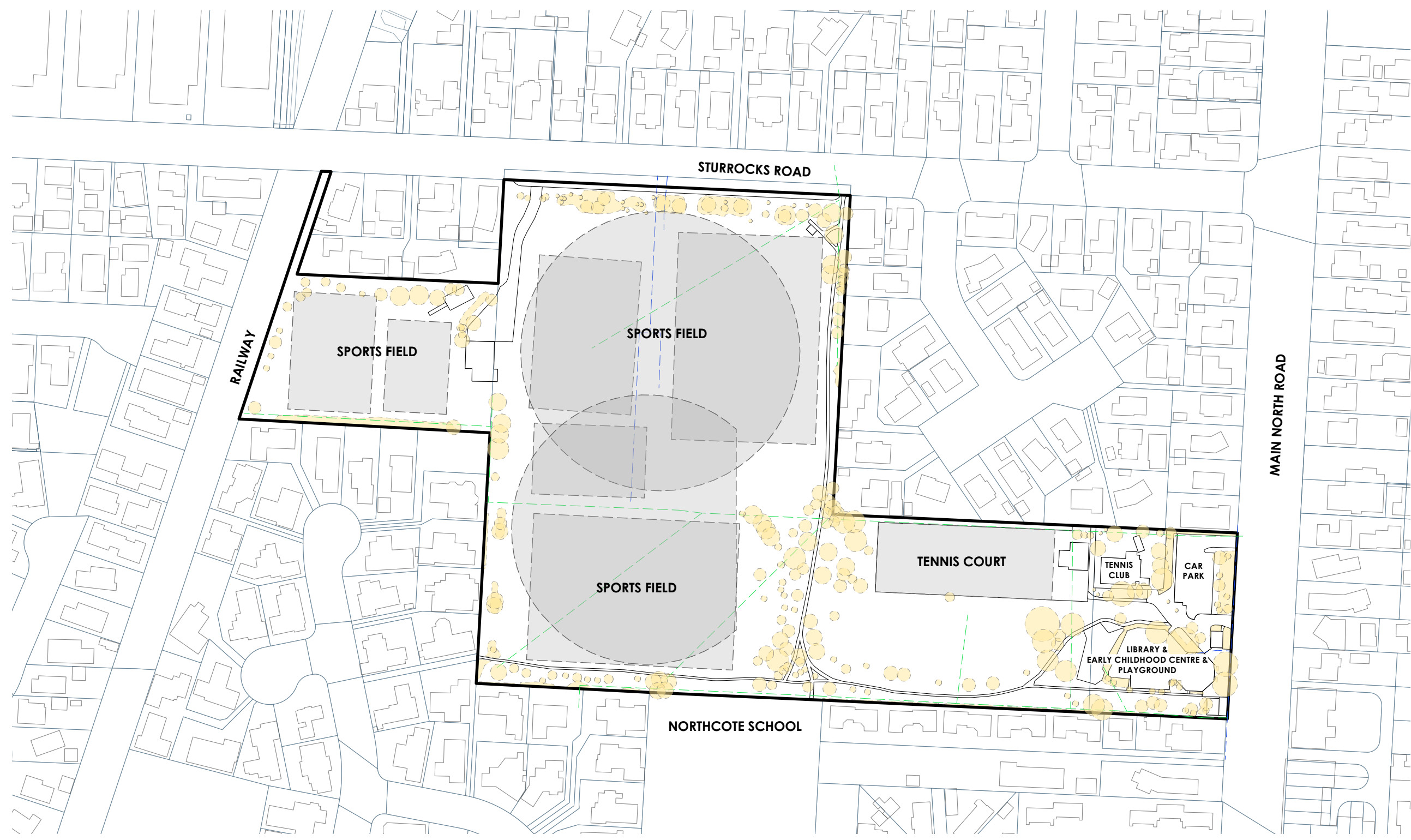
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**REDWOOD PARK**  
Existing Planting

**LEGEND**

-  Existing Tree/  
Vegetation
-  Sports field/ Court
- Existing Services
-  Stormwater
-  Water supply



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# REDWOOD PARK

Community Park Tree Planting

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**REDWOOD PARK**  
Tree Planting Zones

## LEGEND

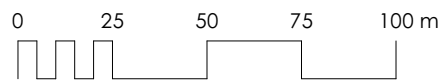
- Existing Tree/  
Vegetation
- Sports field/ Court

### Existing Services

- Stormwater
- Water supply

### Potential Tree Planting Areas

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



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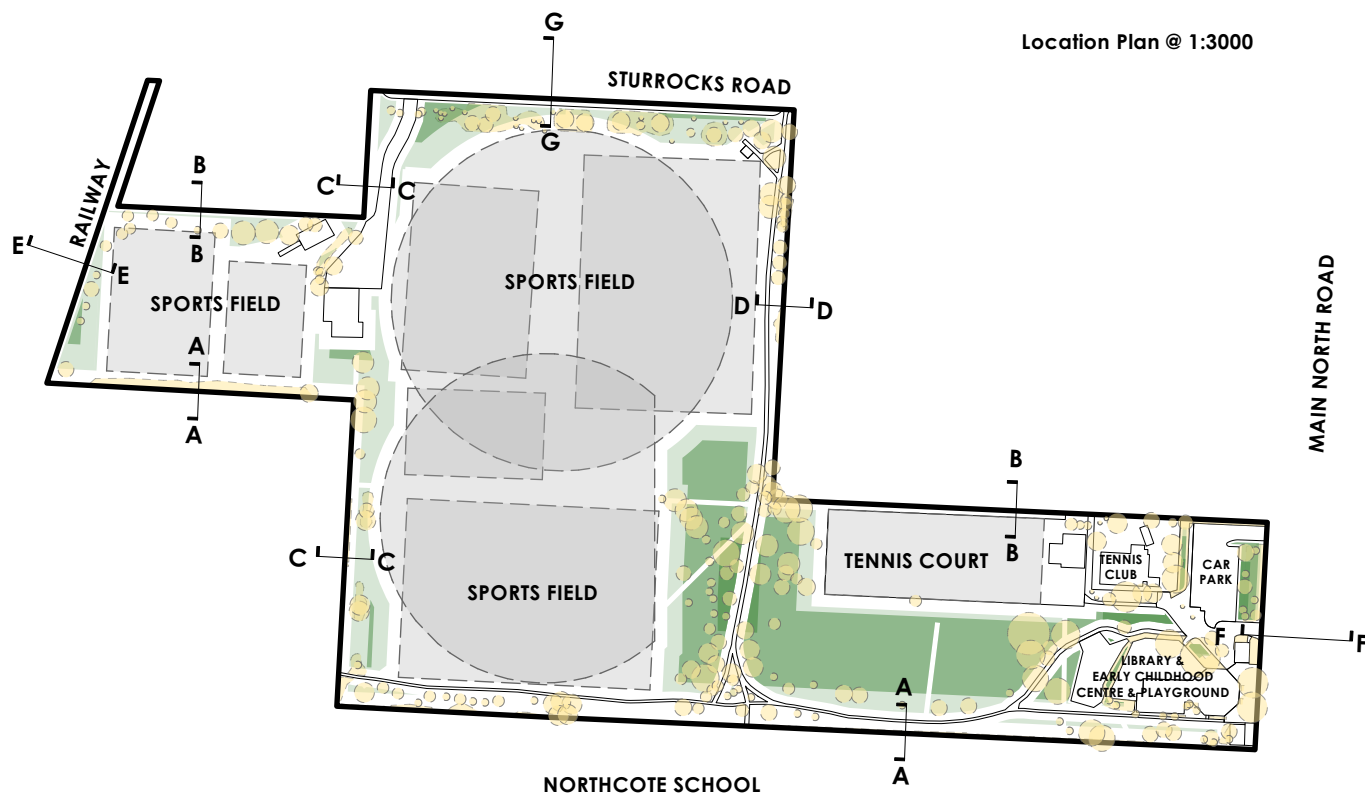
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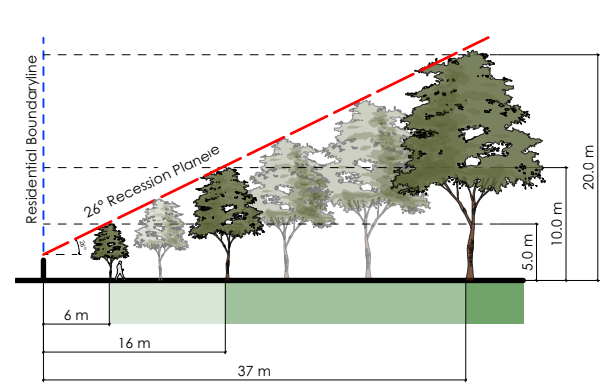
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**REDWOOD PARK**  
Tree Planting Zones

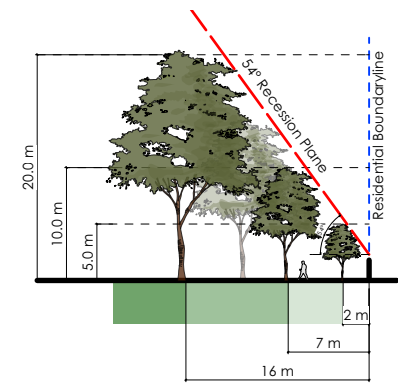
Lot Boundary Cross Sections

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

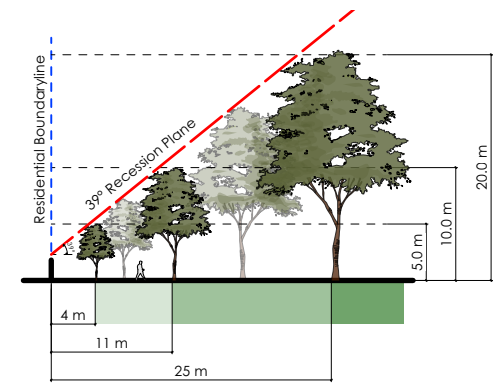
**INDICATIVE CROSS SECTION THROUGH THE BOUNDARIES**



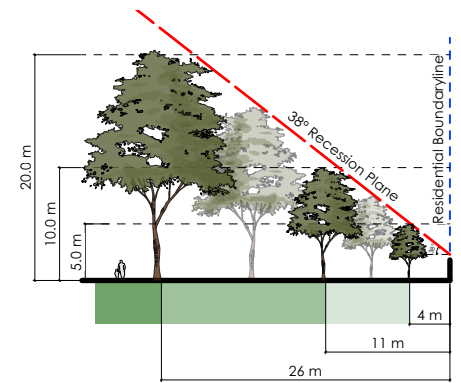
**Cross Section A-A**



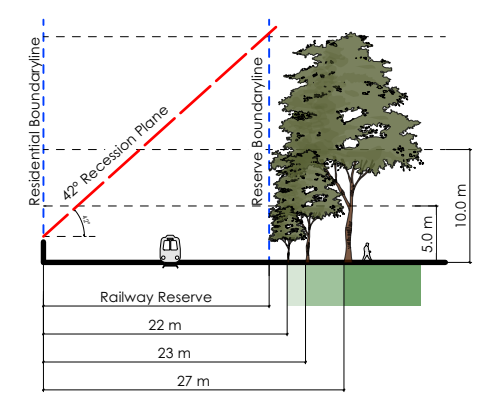
**Cross Section B-B**



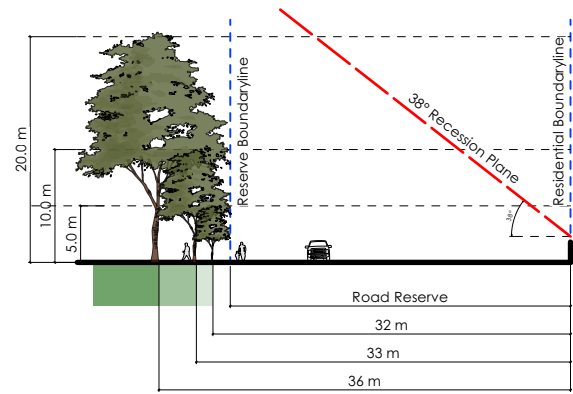
**Cross Section C-C**



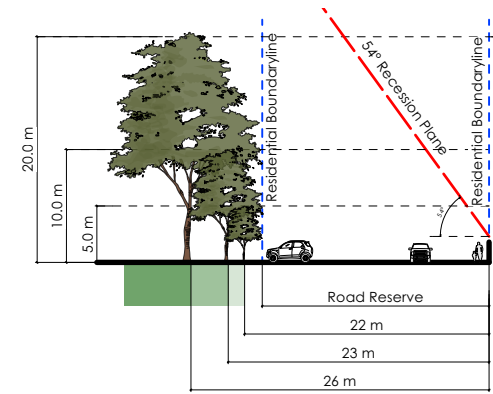
**Cross Section D-D**



**Cross Section E-E**



**Cross Section F-F**



**Cross Section G-G**

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# REDWOOD PARK

Community Park Tree Planting

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## REDWOOD PARK



Tree Planting Zones

Sports Field Cross Sections

### LEGEND

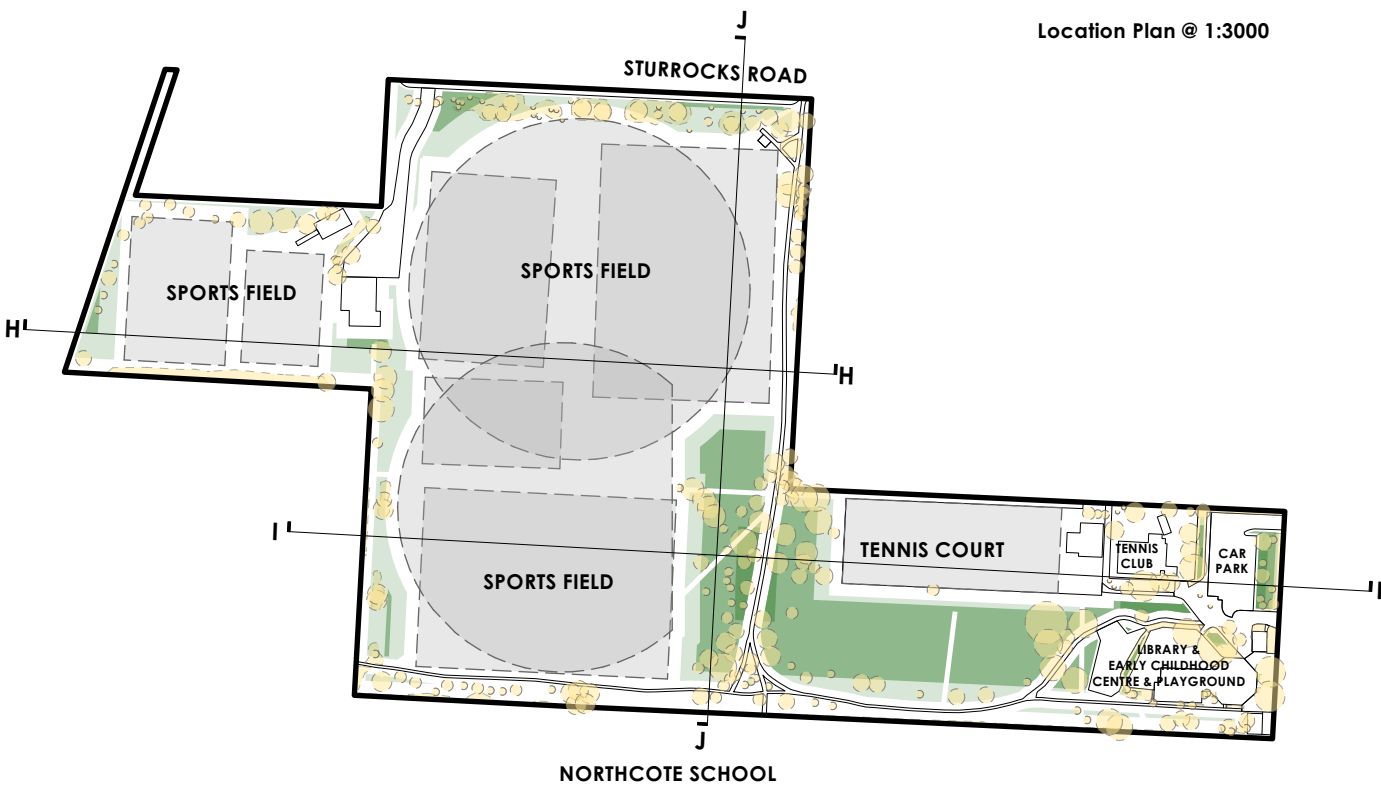
-  Existing Tree/ Vegetation
-  Sports field/ Court

### Existing Services

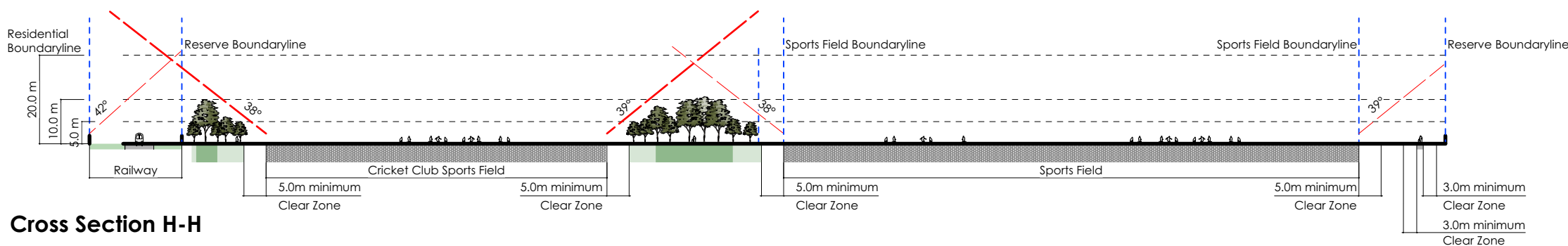
-  Stormwater
-  Water supply

### Potential Tree Planting Areas

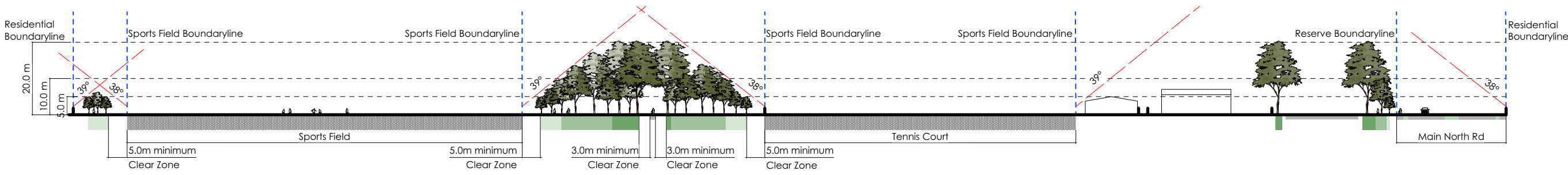
-  5m - 10m Trees Height Zone
-  10m - 20m Trees Height Zone
-  20m+ Trees Height Zone



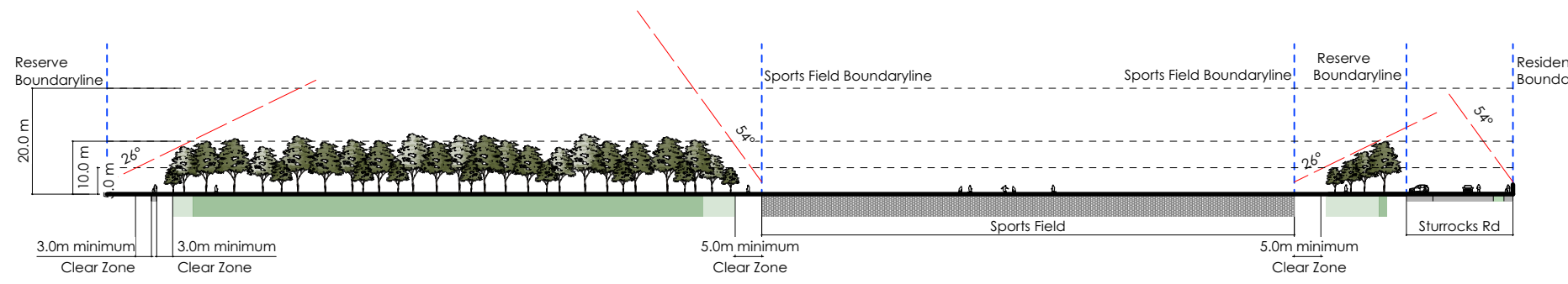
## INDICATIVE CROSS SECTION THROUGH THE SPORTS FIELD



Cross Section H-H



Cross Section I-I



Cross Section J-J

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# Winter Solstice

Date: 22<sup>nd</sup> June



## REDWOOD PARK

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## REDWOOD PARK

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: 22<sup>nd</sup> June

10AM



## REDWOOD PARK

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## REDWOOD PARK

Shade Study - Winter Solstice

10AM

Note:  
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# Winter Solstice

Date: 22<sup>nd</sup> June



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**REDWOOD PARK**  
Shade Study - Winter Solstice

12NOON

12 NOON



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# Winter Solstice

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## REDWOOD PARK

Shade Study - Winter Solstice

2PM

2PM



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**REDWOOD PARK**  
Shade Study - Winter Solstice

4PM

4PM



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**REDWOOD PARK**  
Shade Study - Winter Solstice

6PM

6PM



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# REDWOOD PARK

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**REDWOOD PARK**  
Tree Planting Plan





## LEGEND

-  Existing Tree/ Vegetation
-  Sports field/ Court

## Existing Services

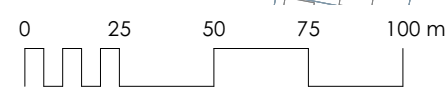
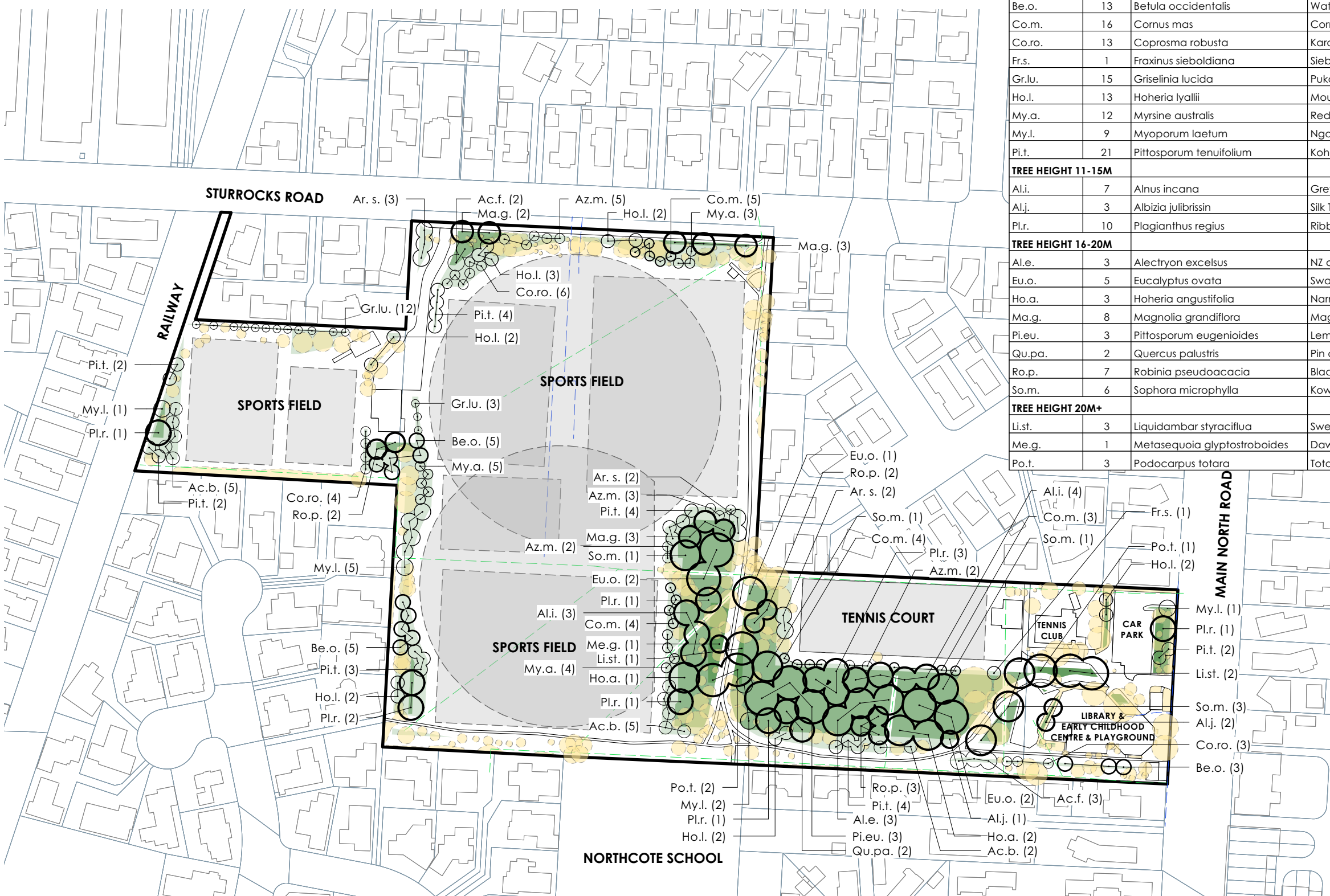
-  Stormwater
-  Water supply

## Potential Tree Planting Areas

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

## PLANT SCHEDULE - REDWOOD PARK

ID	Qty	Botanical Name	Common Name
<b>TREE HEIGHT 5-10M</b>			
Ac.b.	12	Acer buergerianum	Trident Maple
Ac.f.	5	Acer x freemanii	Freeman's Maple
Ar. s.	7	Aristotelia serrata	Wineberry/Makamako
Az.m.	12	Azara microphylla	Boxleaf Azara
Be.o.	13	Betula occidentalis	Water Birch
Co.m.	16	Cornus mas	Cornelian Cherry
Co.ro.	13	Coprosma robusta	Karamu
Fr.s.	1	Fraxinus sieboldiana	Siebold Ash
Gr.lu.	15	Griselinia lucida	Puka/Broadleaf
Ho.l.	13	Hoheria lyallii	Mountain Lacebark
My.a.	12	Myrsine australis	Red Matipo
My.l.	9	Myoporum laetum	Ngaio
Pi.t.	21	Pittosporum tenuifolium	Kohuhu
<b>TREE HEIGHT 11-15M</b>			
Al.i.	7	Alnus incana	Grey Alder
Al.j.	3	Albizia julibrissin	Silk Tree
Pl.r.	10	Plagianthus regius	Ribbonwood / Manatu
<b>TREE HEIGHT 16-20M</b>			
Al.e.	3	Alectryon excelsus	NZ oak/titoki
Eu.o.	5	Eucalyptus ovata	Swamp Gum
Ho.a.	3	Hoheria angustifolia	Narrow leaved lacebark / Houhere
Ma.g.	8	Magnolia grandiflora	Magnolia grandiflora
Pi.eu.	3	Pittosporum eugenioides	Lemonwood / Tarata
Qu.pa.	2	Quercus palustris	Pin oak
Ro.p.	7	Robinia pseudoacacia	Black Locust
So.m.	6	Sophora microphylla	Kowhai
<b>TREE HEIGHT 20M+</b>			
Li.st.	3	Liquidambar styraciflua	Sweet Gum
Me.g.	1	Metasequoia glyptostroboides	Dawn Redwood
Po.t.	3	Podocarpus totara	Totara



REDWOOD PARK			
Park Canopy Cover Summary			
Existing number of trees			191
Existing canopy cover	approx.		12%
Proposed number of new trees			213
Proposed net canopy cover (existing vegetation and proposed)	approx.		26%

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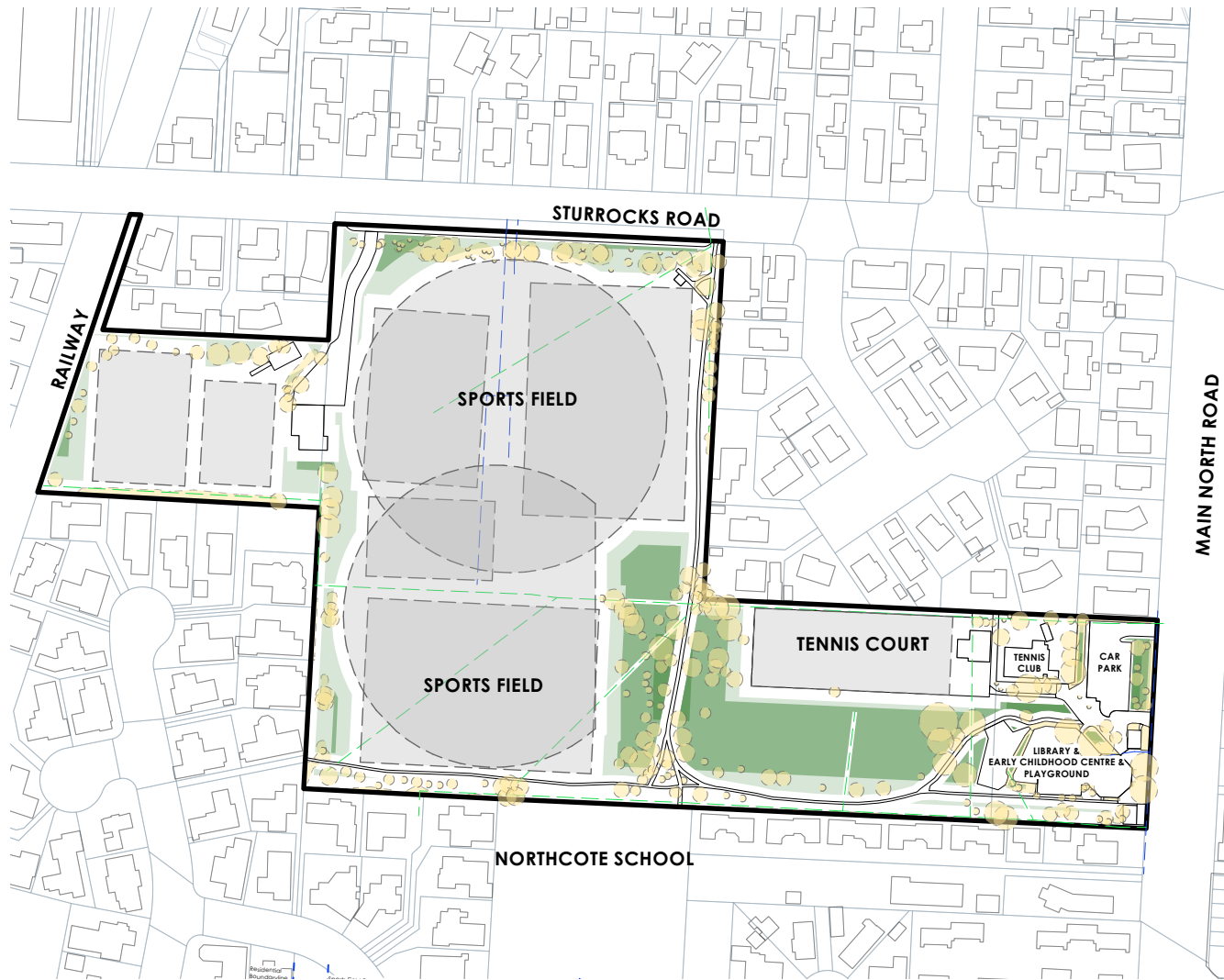


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- LEGEND**
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  - Sports field/ Court
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- Stormwater
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- Potential Tree Planting Areas
- 5m - 10m Trees Height Zone
  - 10m - 20m Trees Height Zone
  - 20m+ Trees Height Zone

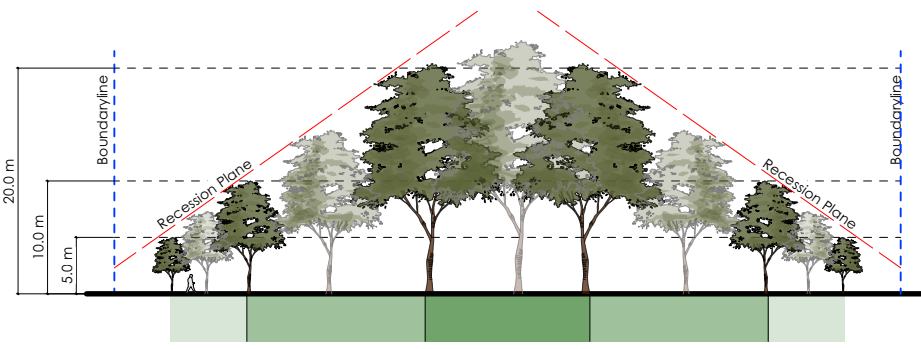
**Guideline Summary**

- 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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