

PROJECT NAME

RADLEY PLAYGROUND

ADDRESS

84 Radley Street, Woolston, Christchurch 8023

CLIENT

Christchurch City Council

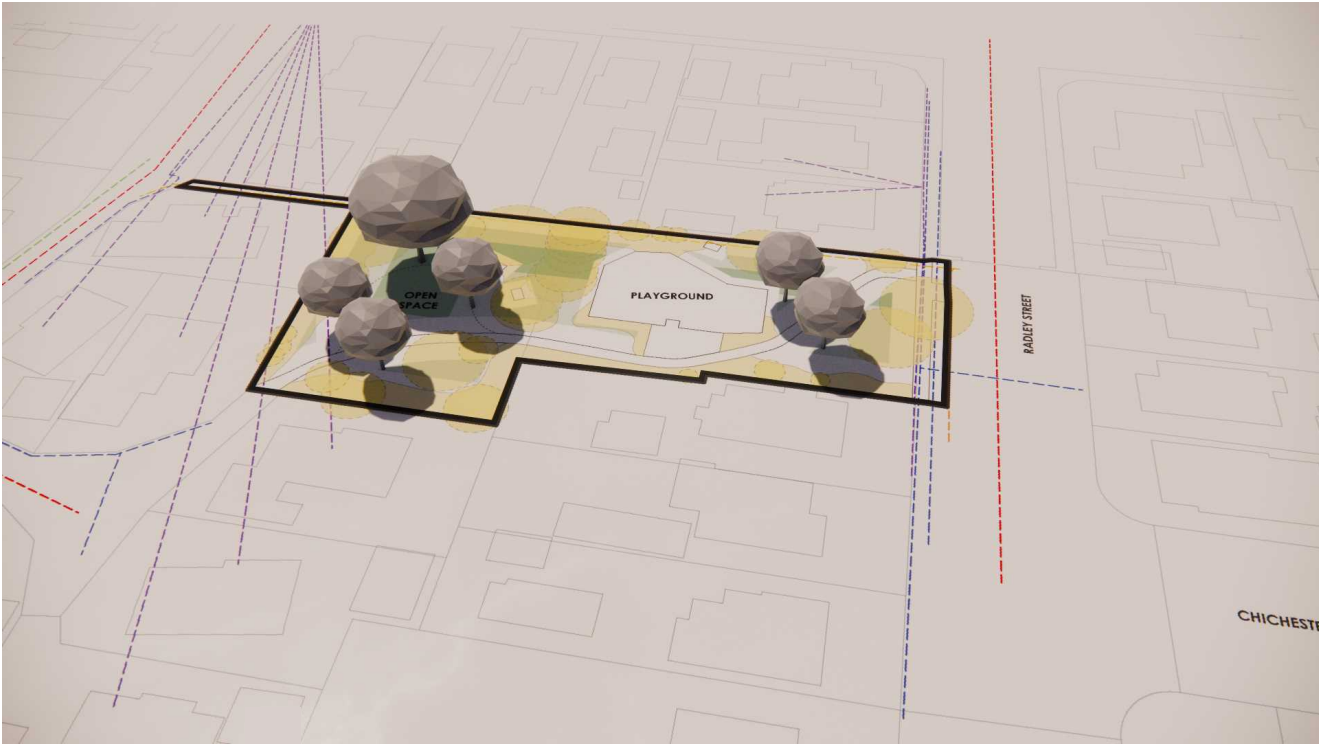
COMMUNITY PARK TREE PLANTING STUDY

Issued date

5/03/2024



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



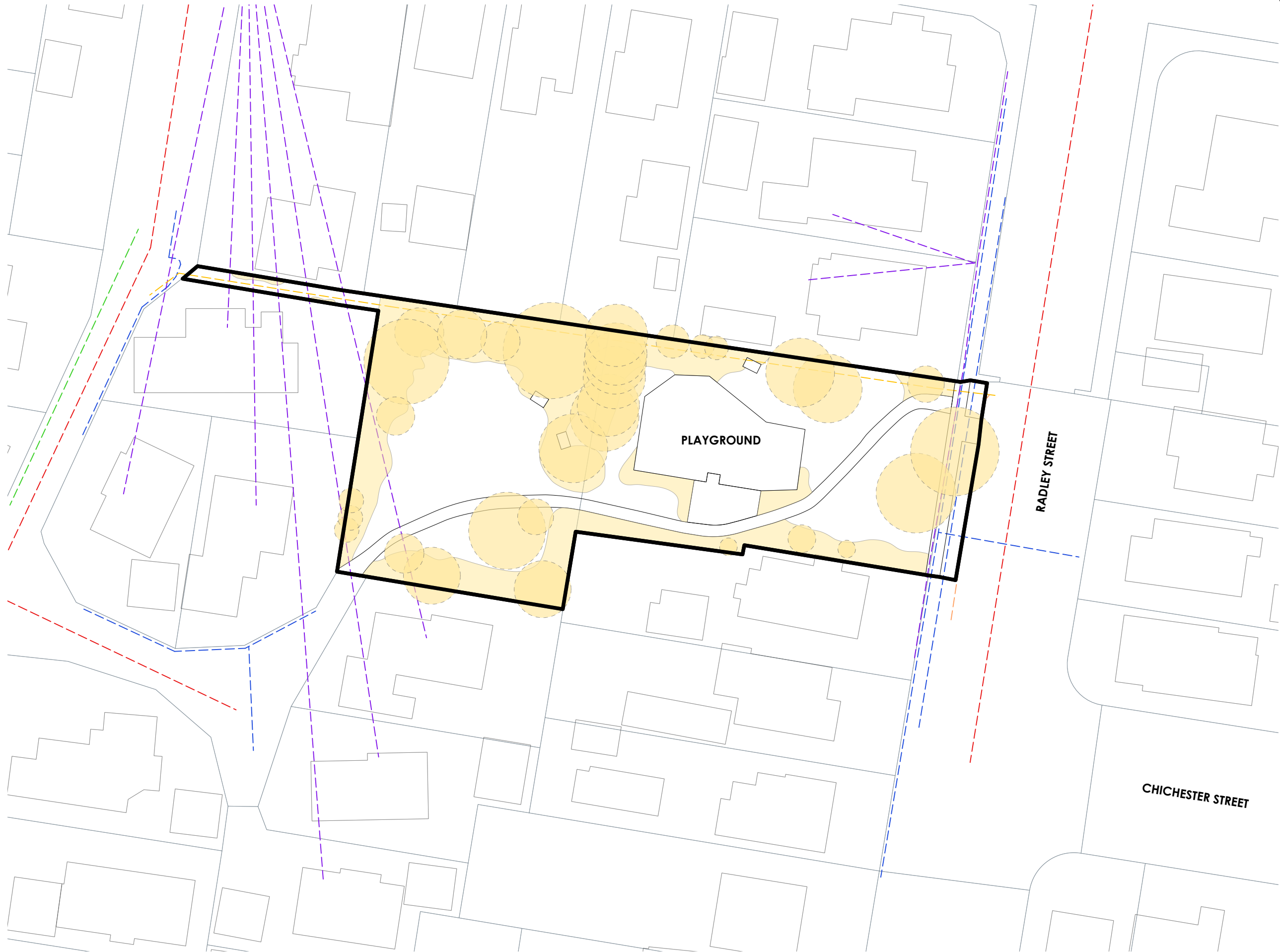
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REFERENCE NO.

5442



RADLEY PLAYGROUND

Community Park Tree Planting

ADDRESS
84 Radley Street, Woolston,
Christchurch 8023

CLIENT
Christchurch City Council

RADLEY PLAYGROUND
Existing Planting

LEGEND

 Existing Tree/
Vegetation

Existing Services

-  Stormwater
-  Water supply
-  Wastewater
-  Power (LV)
-  Enable fibre

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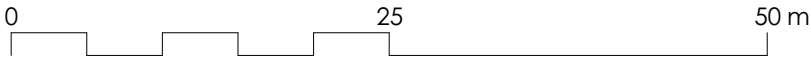
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Community Park Tree Planting

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RADLEY PLAYGROUND
Tree Planting Zones

LEGEND

Existing Tree/
Vegetation

Existing Services

Stormwater
Water supply
Wastewater
Power (LV)
Enable fibre

Potential Tree Planting Areas

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

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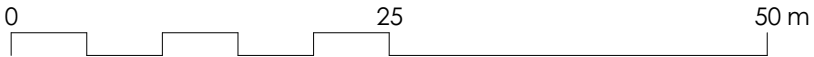


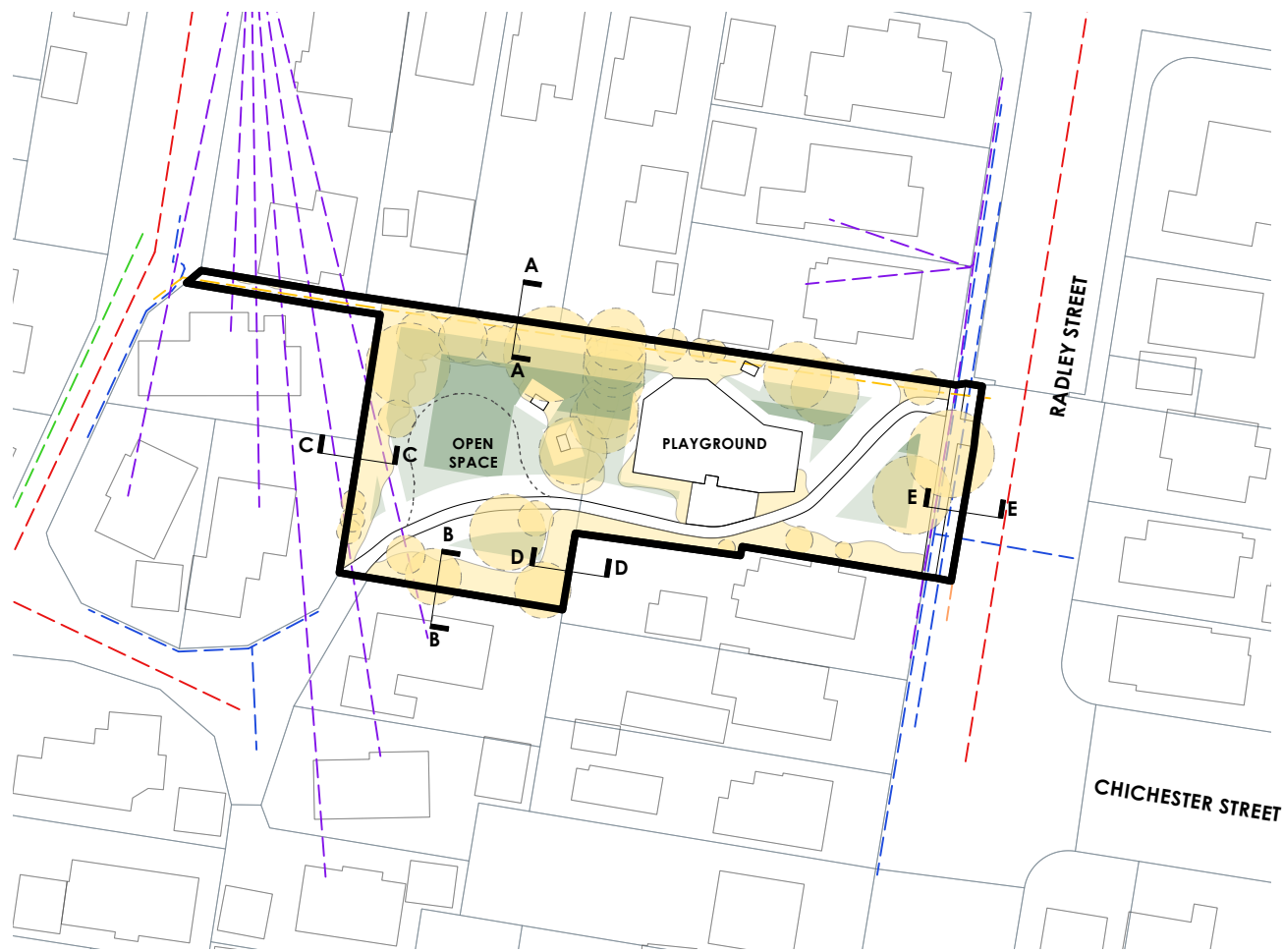
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Location Plan @ 1:1000



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RADLEY PLAYGROUND
Tree Planting Zones

Lot Boundary Cross Sections

LEGEND

Existing Tree/
Vegetation

Existing Services

Stormwater

Water supply

Wastewater

Power (LV)

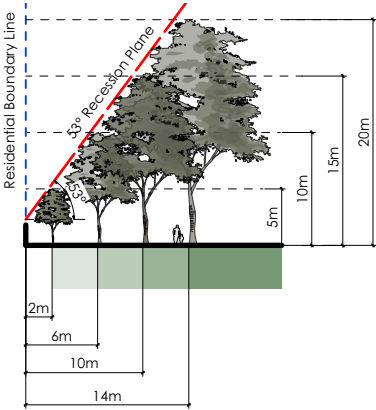
Enable fibre

Potential Tree Planting Areas

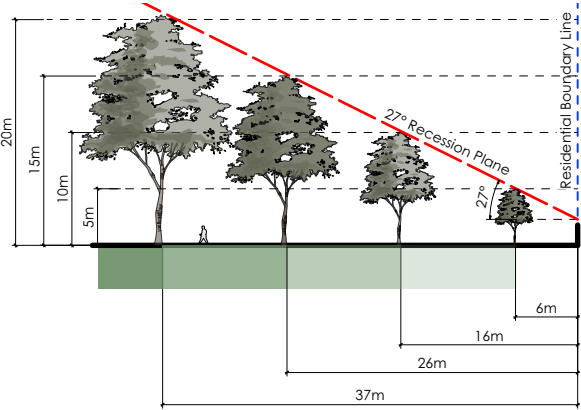
5m - 10m
Trees Height Zone

10m - 15m
Trees Height Zone

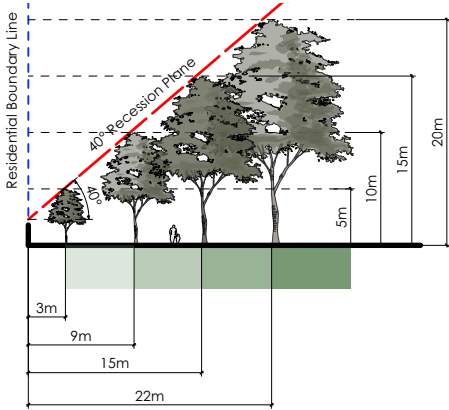
INDICATIVE CROSS SECTION THROUGH THE BOUNDARIES



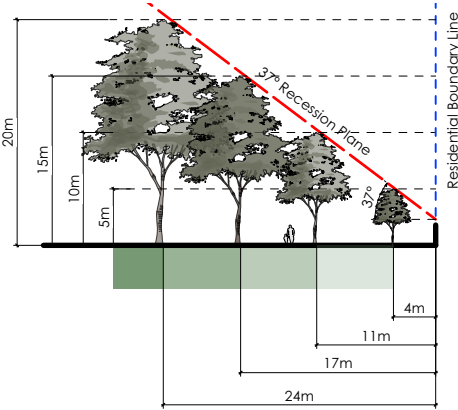
Cross Section A-A



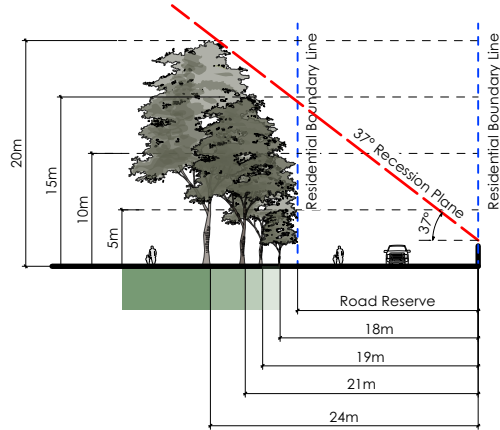
Cross Section B-B



Cross Section C-C



Cross Section D-D



Cross Section E-E

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8 am



RADLEY PLAYGROUND

Community Park Tree Planting

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RADLEY PLAYGROUND
Shade Study - Winter Solstice

8 am

Note:
Trees in the model are shown
at 10m, 15m height

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10 am



RADLEY PLAYGROUND

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Shade Study - Winter Solstice

10 am

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12 noon



RADLEY PLAYGROUND

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RADLEY PLAYGROUND
Shade Study - Winter Solstice

12 noon

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2 pm



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RADLEY PLAYGROUND
Shade Study - Winter Solstice

2 pm

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Winter Solstice
Date: 22nd June



4 pm



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RADLEY PLAYGROUND
Shade Study - Winter Solstice

4 pm

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RADLEY PLAYGROUND

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RADLEY PLAYGROUND
Shade Study - Winter Solstice

6 pm

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8 am



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RADLEY PLAYGROUND
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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12 noon



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RADLEY PLAYGROUND
Shade Study - Summer Solstice

12 noon

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2 pm



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RADLEY PLAYGROUND
Shade Study - Summer Solstice

2 pm

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4 pm



RADLEY PLAYGROUND

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RADLEY PLAYGROUND
Shade Study - Summer Solstice

4 pm

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6 pm



RADLEY PLAYGROUND

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RADLEY PLAYGROUND
Shade Study - Summer Solstice

6 pm

Note:
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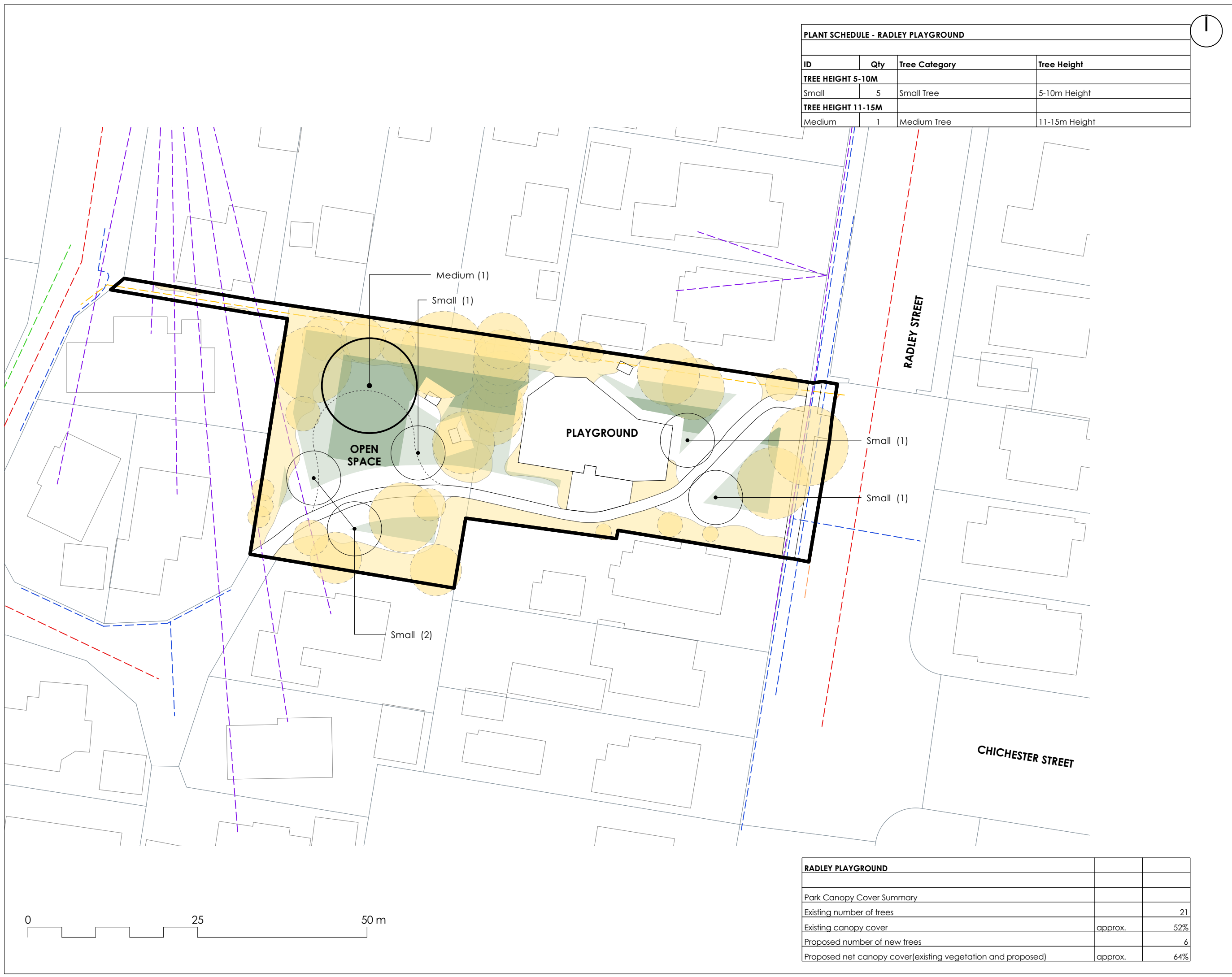
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PLANT SCHEDULE - RADLEY PLAYGROUND			
ID	Qty	Tree Category	Tree Height
TREE HEIGHT 5-10M			
Small	5	Small Tree	5-10m Height
TREE HEIGHT 11-15M			
Medium	1	Medium Tree	11-15m Height

RADLEY PLAYGROUND

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RADLEY PLAYGROUND
Tree Planting Plan

LEGEND

Existing Tree/
Vegetation

Existing Services

- Stormwater
- Water supply
- Wastewater
- Power (LV)
- Enable fibre

Potential Tree Planting Areas

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

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

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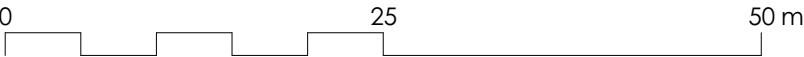
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RADLEY PLAYGROUND		
Park Canopy Cover Summary		
Existing number of trees		21
Existing canopy cover	approx.	52%
Proposed number of new trees		6
Proposed net canopy cover(existing vegetation and proposed)	approx.	64%



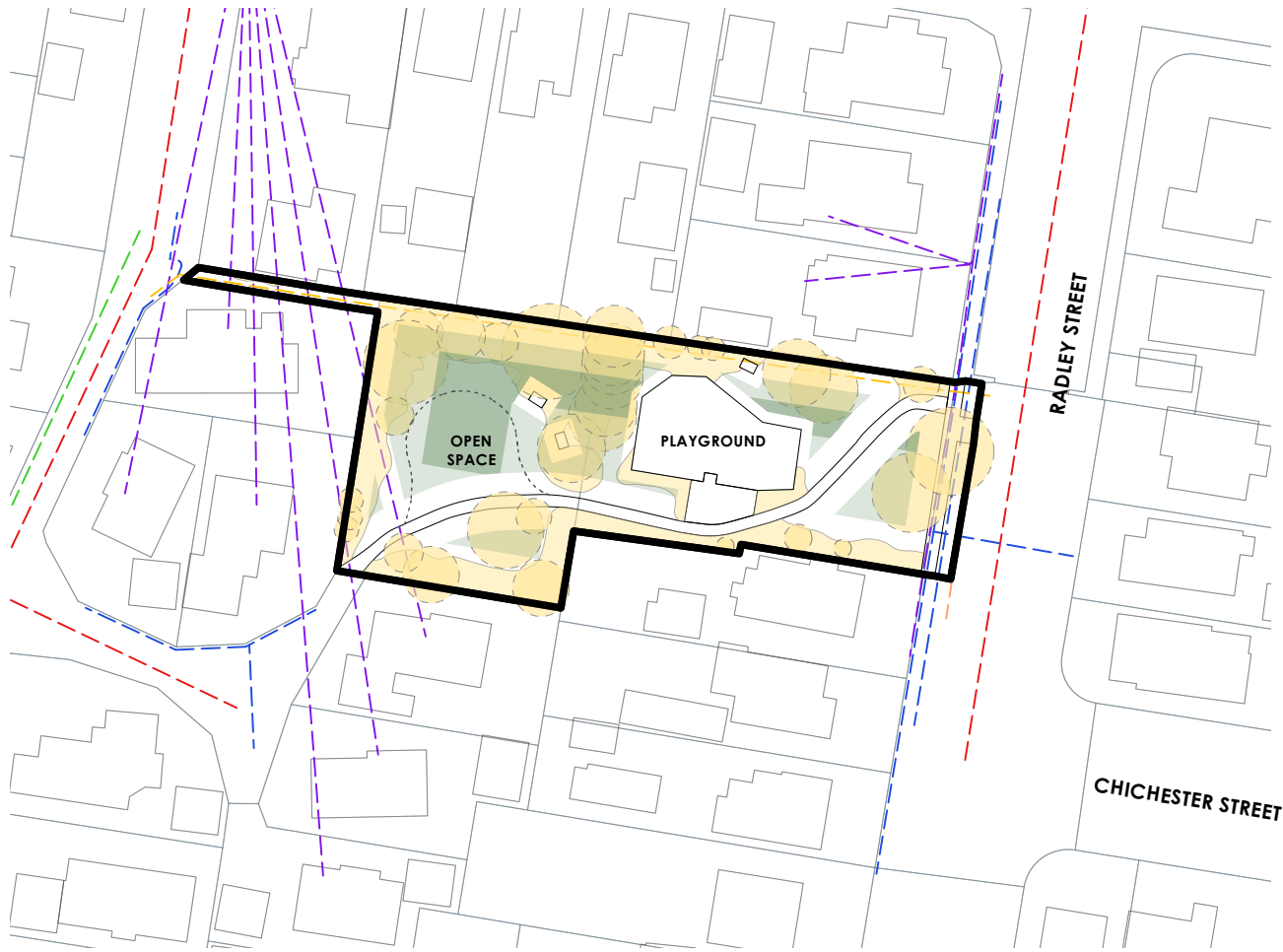
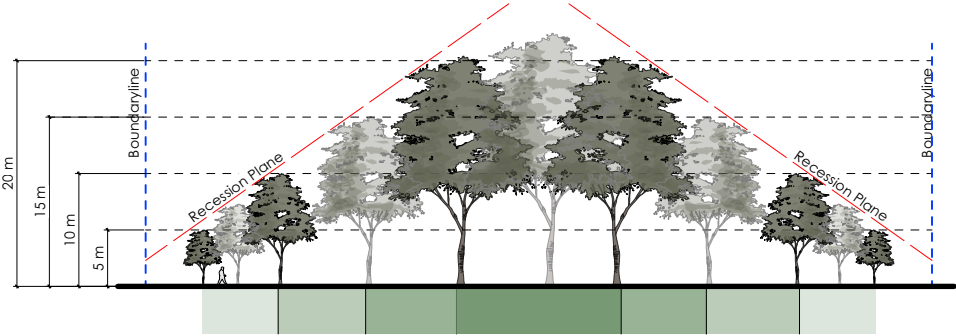
Guideline Summary

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

Typical tree planting pattern



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Water supply
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5m - 10m
Trees Height Zone
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Trees Height Zone

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