

PROJECT NAME

# MARAMA PARK

ADDRESS

175R Kittyhawk Avenue, Wigram, Christchurch

CLIENT

Christchurch City Council

## COMMUNITY PARK TREE PLANTING STUDY

Issued date

30/05/2023



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



PREPARED BY



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5323



# MARAMA PARK

Community Park Tree Planting

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**MARAMA PARK**  
Existing Planting

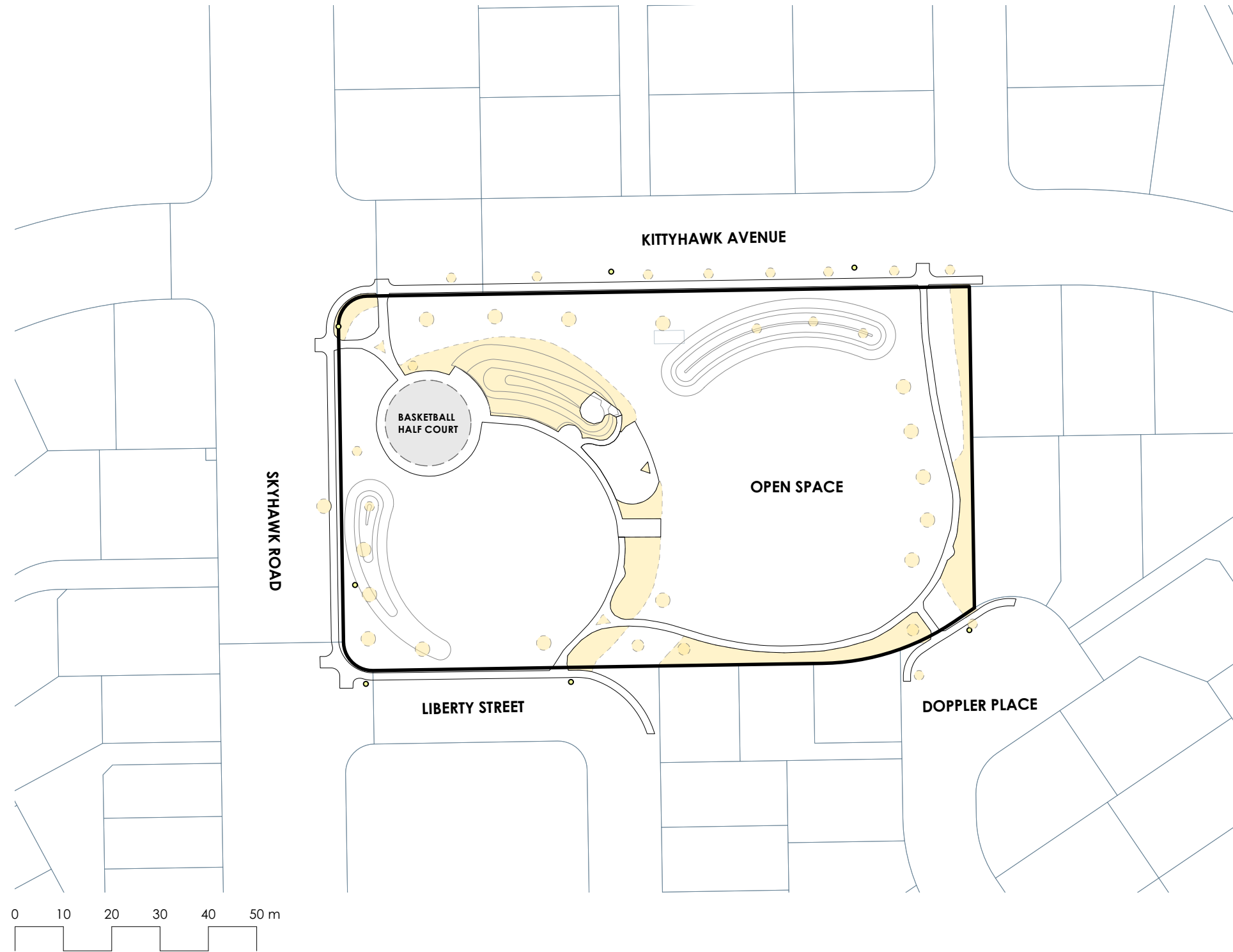
## LEGEND

Existing Tree/  
Vegetation

Open Space

Existing Services

Light



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# MARAMA PARK

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**MARAMA PARK**  
Tree Planting Zones

## LEGEND

Existing Tree/  
Vegetation

Open Space

### Existing Services

Light

### Potential Tree Planting Areas

5m - 10m  
Trees Height Zone

10m - 20m  
Trees Height Zone

20m+  
Trees Height Zone



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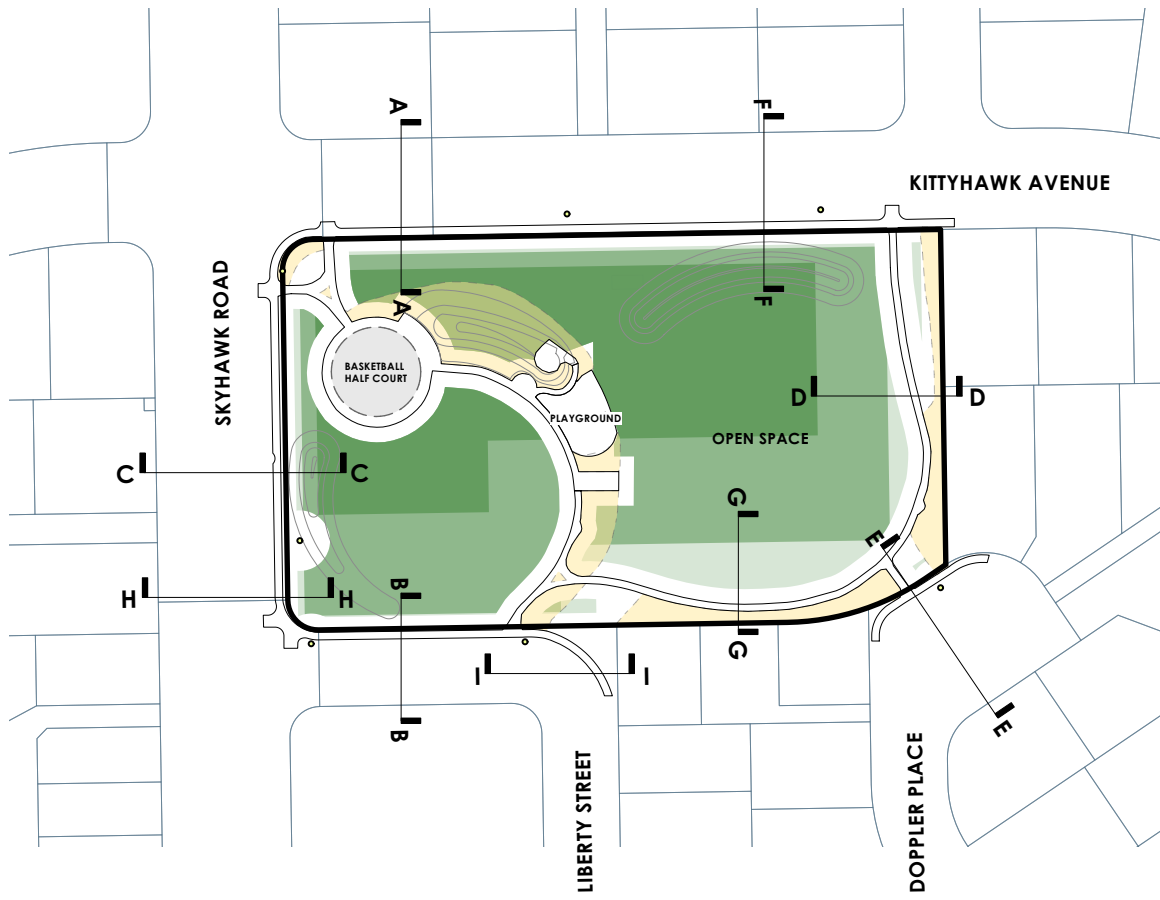
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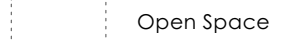
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Location Plan @ 1:1500



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**MARAMA PARK**  
Tree Planting Zones  
Lot Boundary Cross Sections

**LEGEND**



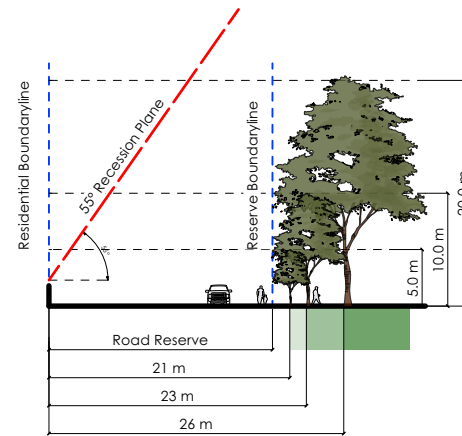
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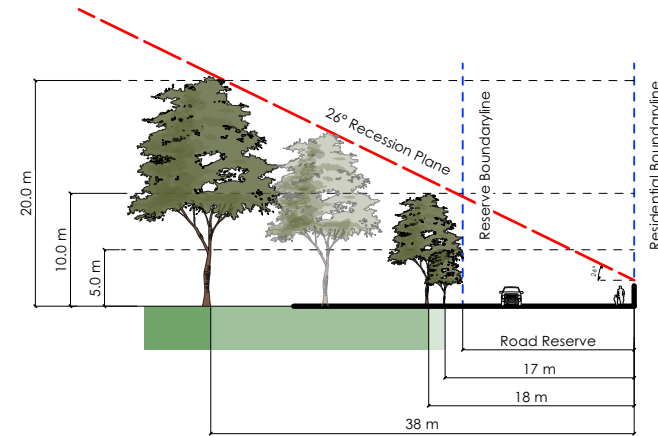
Potential Tree Planting Areas

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

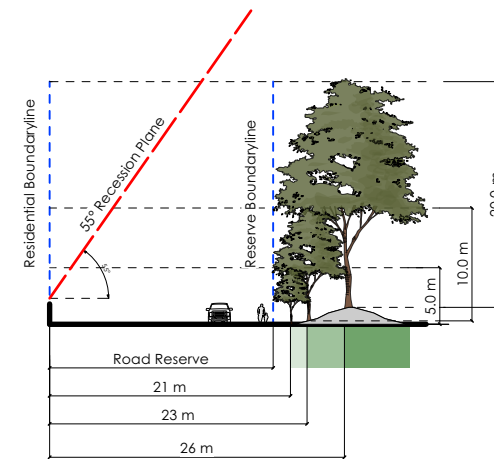
**INDICATIVE CROSS SECTION THROUGH THE BOUNDARIES**



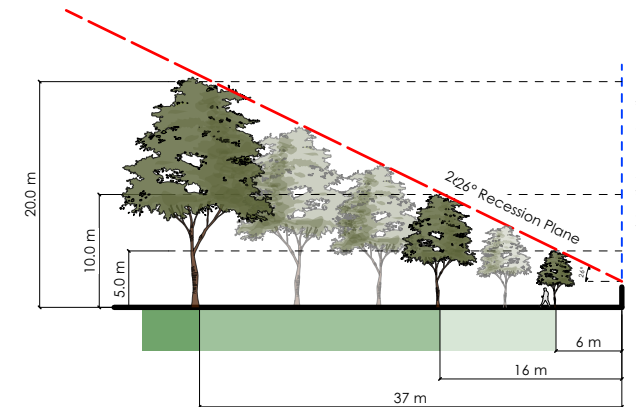
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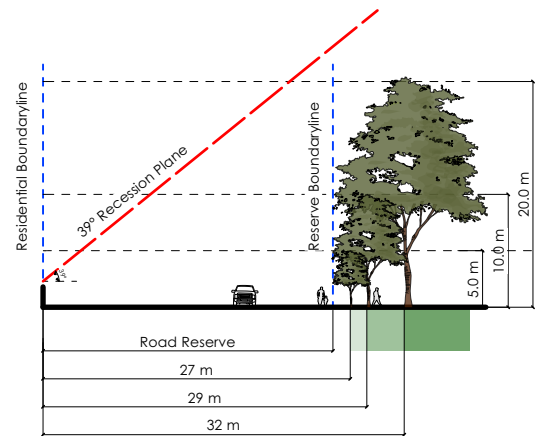
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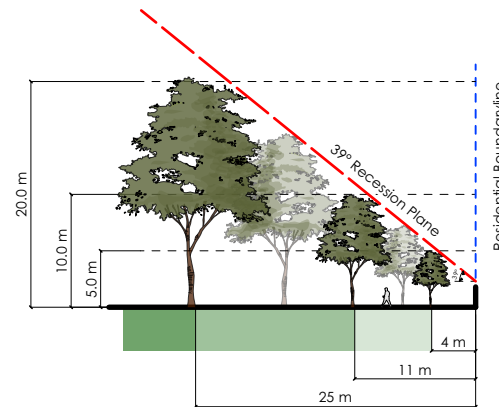
**Cross Section F-F**



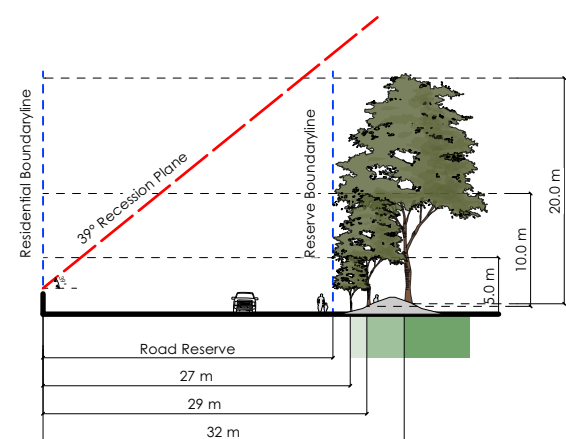
**Cross Section G-G**



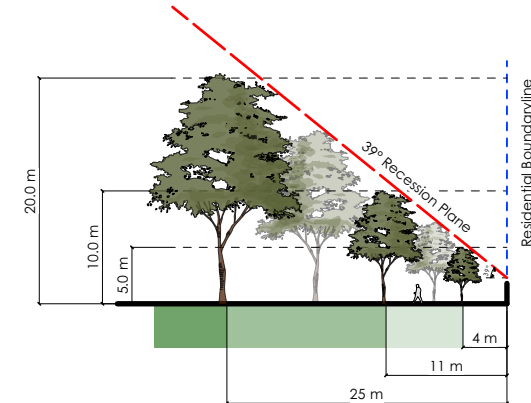
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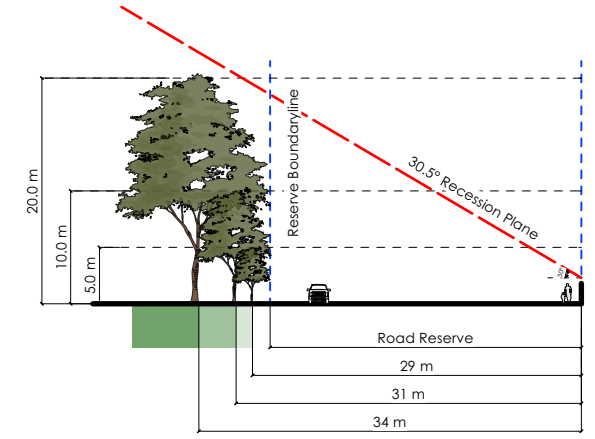
**Cross Section D-D**



**Cross Section H-H**



**Cross Section I-I**



**Cross Section E-E**

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# Winter Solstice

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



## MARAMA PARK

Community Park Tree Planting

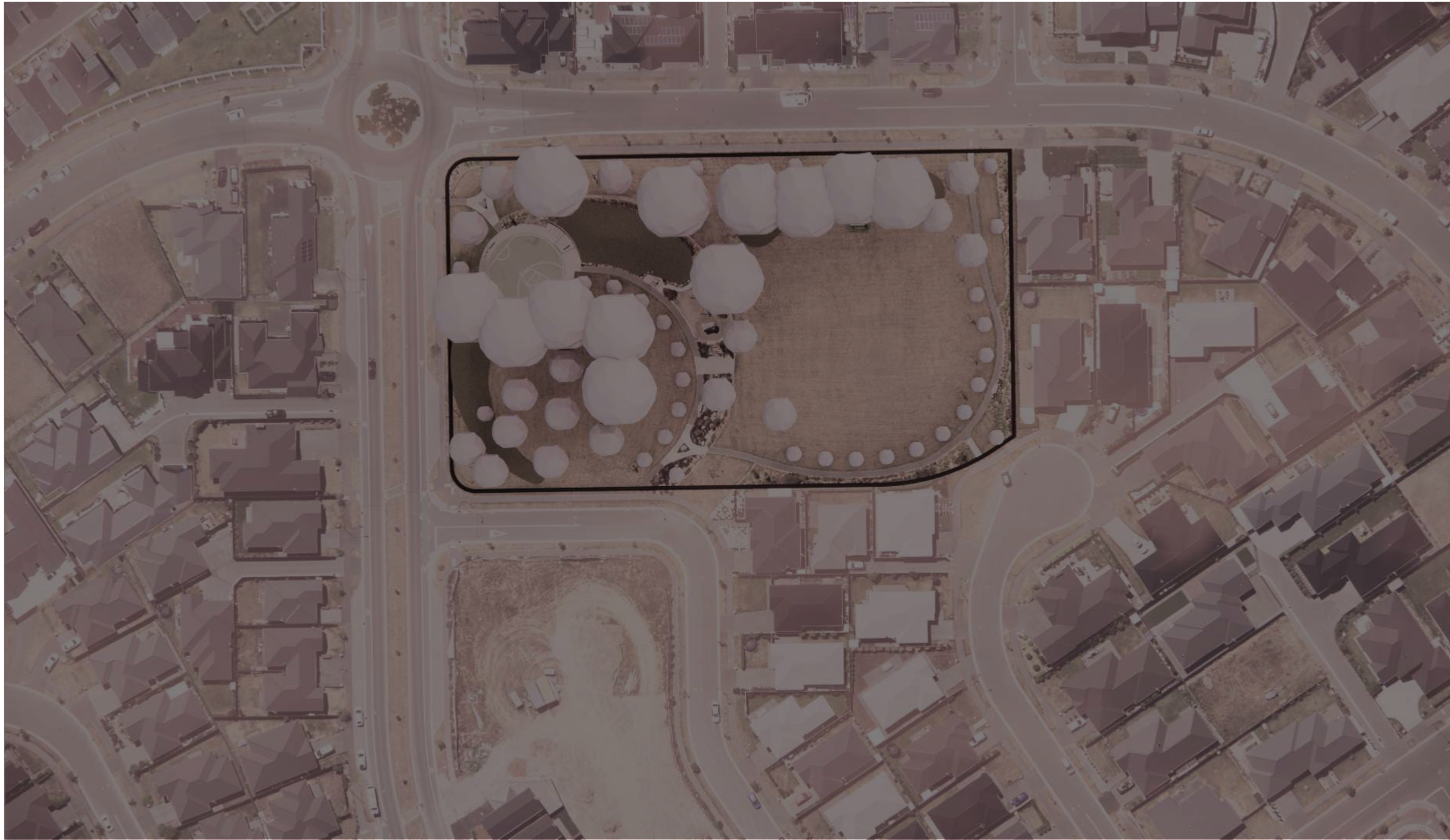
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**MARAMA PARK**  
Shade Study - Winter Solstice

8 am

8 am



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

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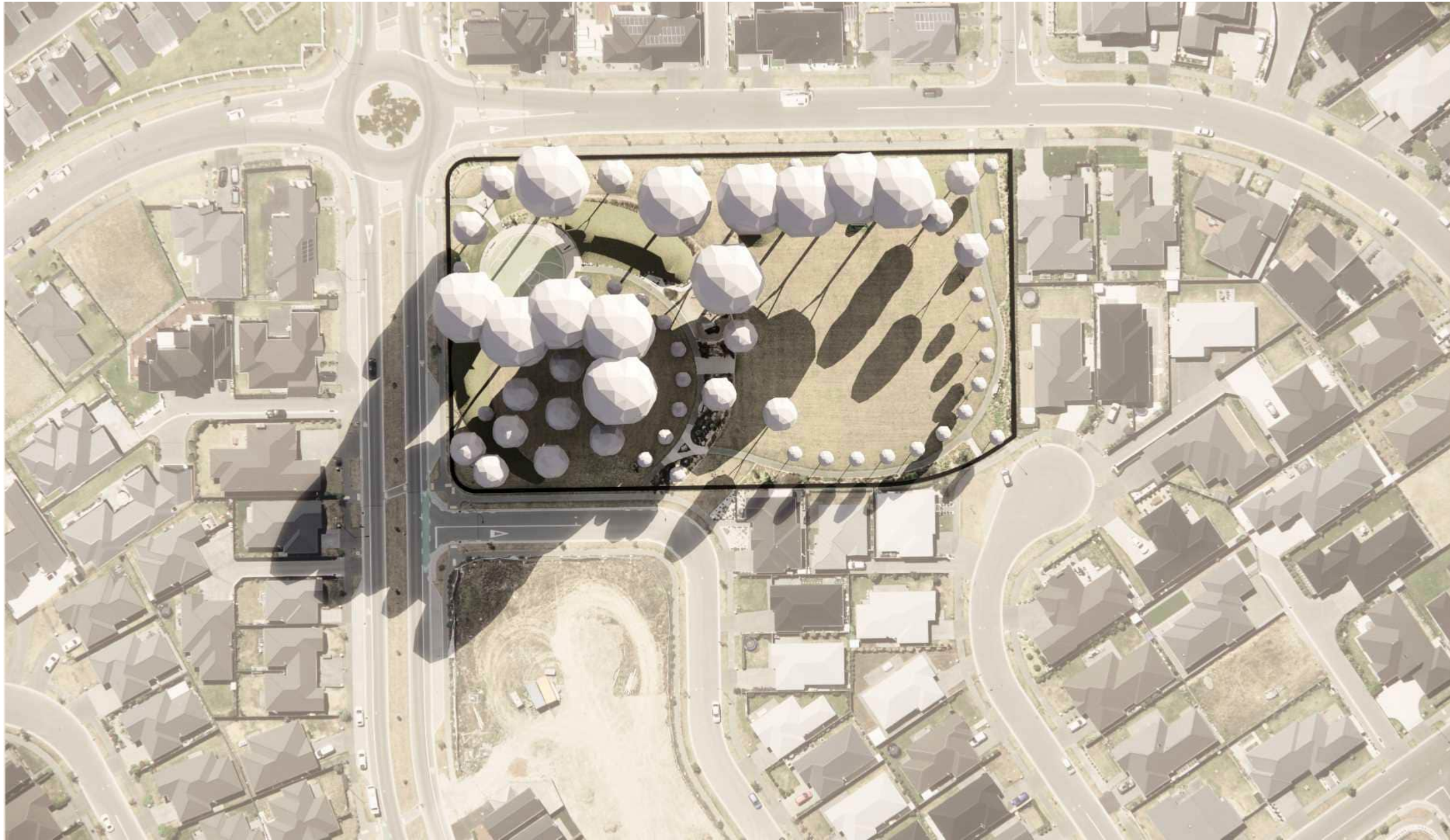
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# Winter Solstice

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

10 am



## MARAMA PARK

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**MARAMA PARK**  
Shade Study - Winter Solstice

10 am

Note:  
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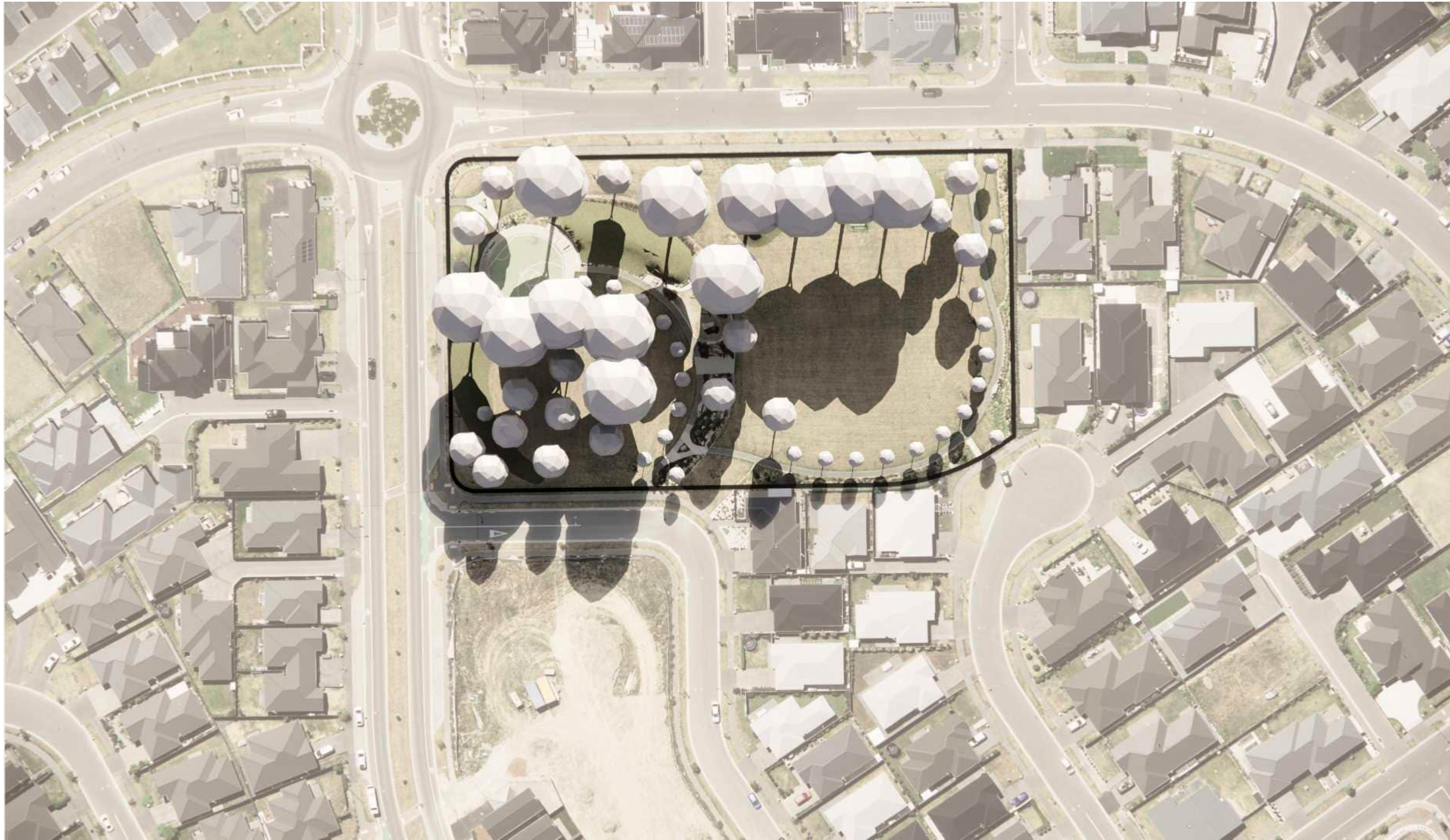
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# Winter Solstice

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

12 noon



## MARAMA PARK

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**MARAMA PARK**  
Shade Study - Winter Solstice

12 noon

Note:  
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# Winter Solstice

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

2 pm



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## MARAMA PARK

Shade Study - Winter Solstice

2 pm

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

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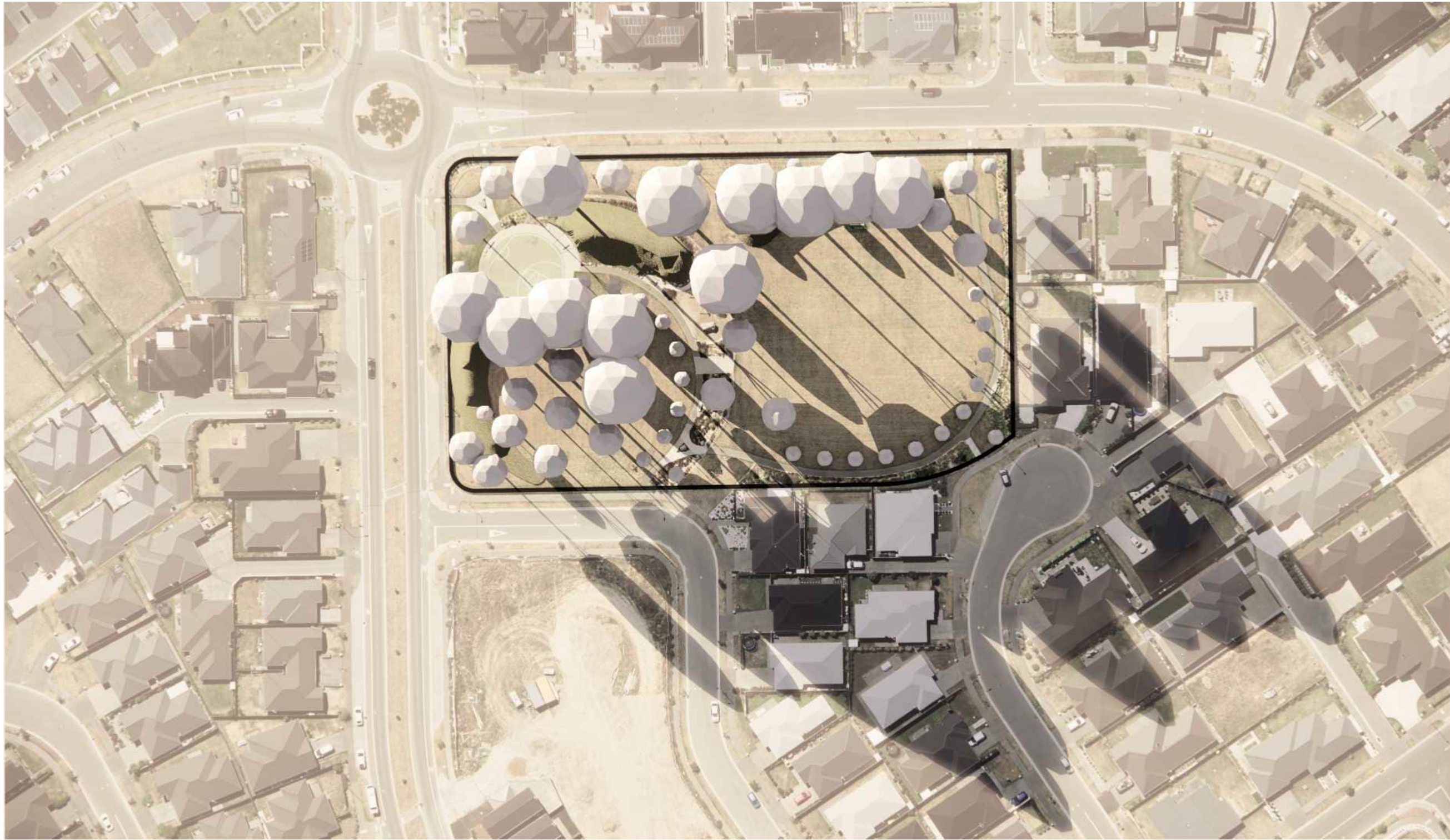
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# Winter Solstice

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

4 pm



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**MARAMA PARK**  
Shade Study - Winter Solstice

4 pm

Note:  
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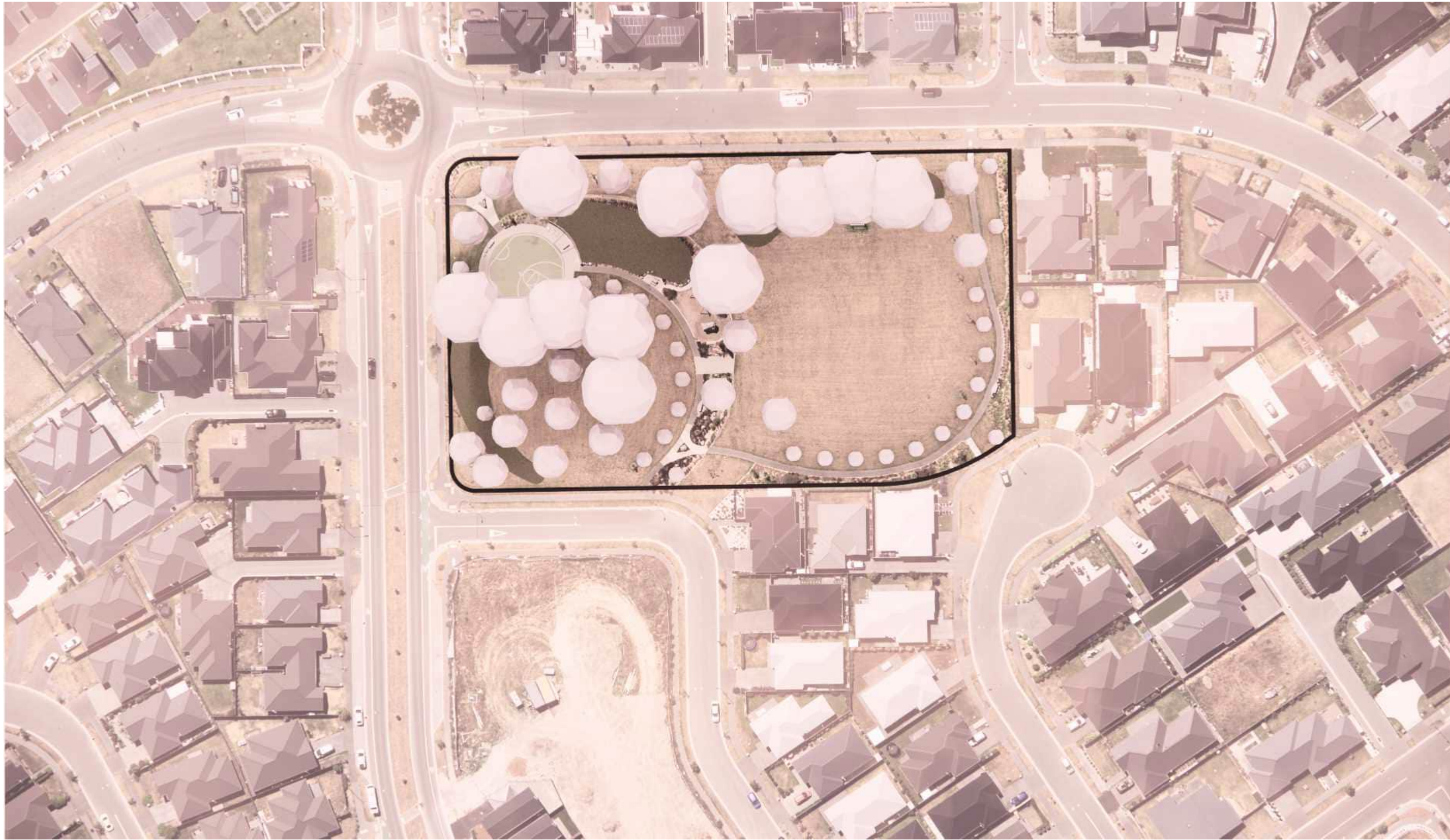
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# Winter Solstice

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

6 pm



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## MARAMA PARK

Shade Study - Winter Solstice

6 pm

Note:  
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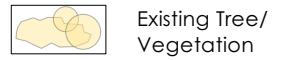
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**MARAMA PARK**  
Tree Planting Plan

## LEGEND



Existing Tree/  
Vegetation



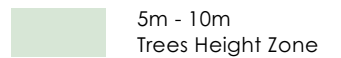
Open Space

Existing Services

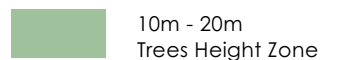


Light

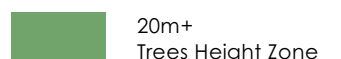
Potential Tree Planting Areas



5m - 10m  
Trees Height Zone



10m - 20m  
Trees Height Zone



20m+  
Trees Height Zone

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

# DRAFT

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## PLANT SCHEDULE - MARAMA PARK

ID	Qty	Botanical Name	Common Name
<b>TREE HEIGHT 5-10M</b>			
Ac.AB.	15	Acer 'Autumn Blaze'	syn. Acer 'Jeffer's Red'
Ar. s.	6	Aristotelia serrata	Wineberry/Makamako
Ol.p.	2	Olearia paniculata	Golden Akeake
Pr.y	8	Prunus yedoensis	Flowering Cherry
<b>TREE HEIGHT 11-15M</b>			
Pl.r.	3	Plagianthus regius	Ribbonwood / Manatu
<b>TREE HEIGHT 16-20M</b>			
Al.c	3	Alnus cordata	Italian Alder
Li.s	3	Liquidambar styraciflua	Sweet Gum
Pi.eu.	6	Pittosporum eugenoides	Lemonwood / Tarata
So.m.	3	Sophora microphylla	Kowhai
<b>TREE HEIGHT 20M+</b>			
Pl.o	3	Platanus orientalis	London Plane
Po.t.	8	Podocarpus totara	Totara
Qu.c	1	Quercus cerris	Turkey Oak



MARAMA PARK		
Park Canopy Cover Summary		
Existing number of trees		35
Existing canopy cover	approx.	13%
Proposed number of new trees		61
Proposed net canopy cover (existing vegetation and proposed)	approx.	70%



# MARAMA PARK

Community Park Tree Planting

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**MARAMA PARK**  
Tree Planting Guidelines

### LEGEND



Existing Tree/  
Vegetation



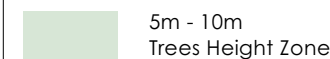
Open Space

Existing Services

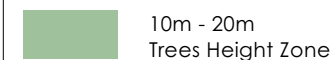


Light

Potential Tree Planting Areas



5m - 10m  
Trees Height Zone



10m - 20m  
Trees Height Zone



20m+  
Trees Height Zone



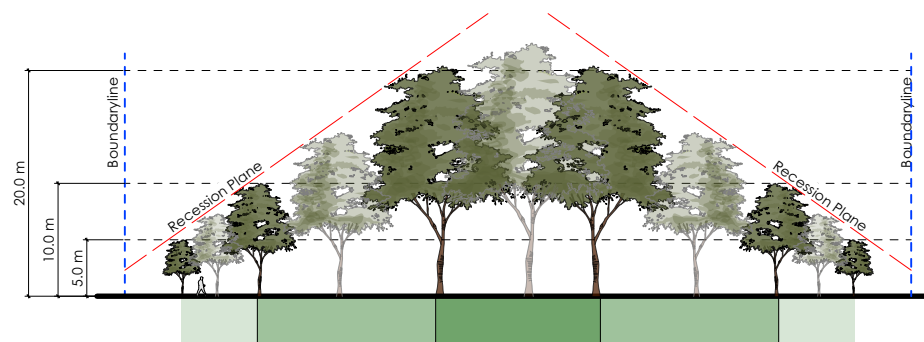
### Guideline Summary

- 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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