

PROJECT NAME

RUNNYMEDE RESERVE

ADDRESS

2 Westfield Avenue, Templeton, Christchurch 8042

CLIENT

Christchurch City Council

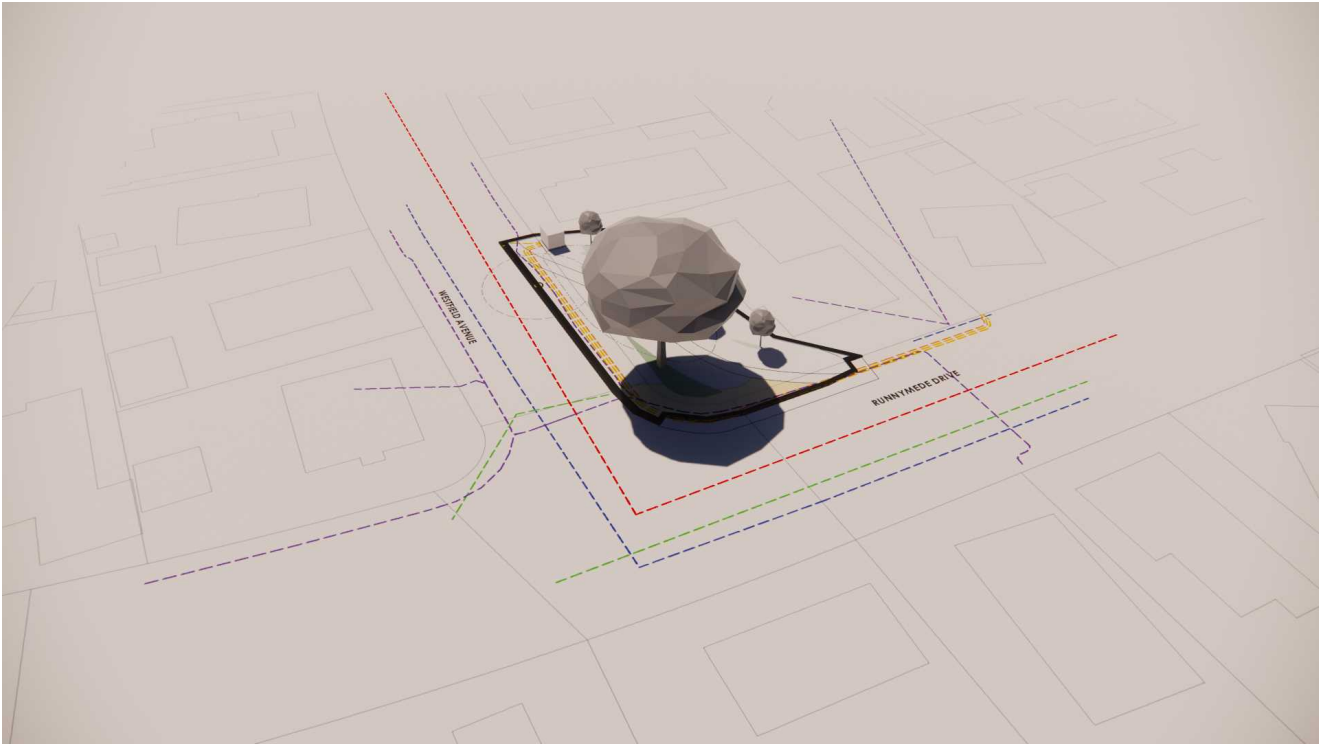
COMMUNITY PARK TREE PLANTING STUDY

Issued date

13/12/2023



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



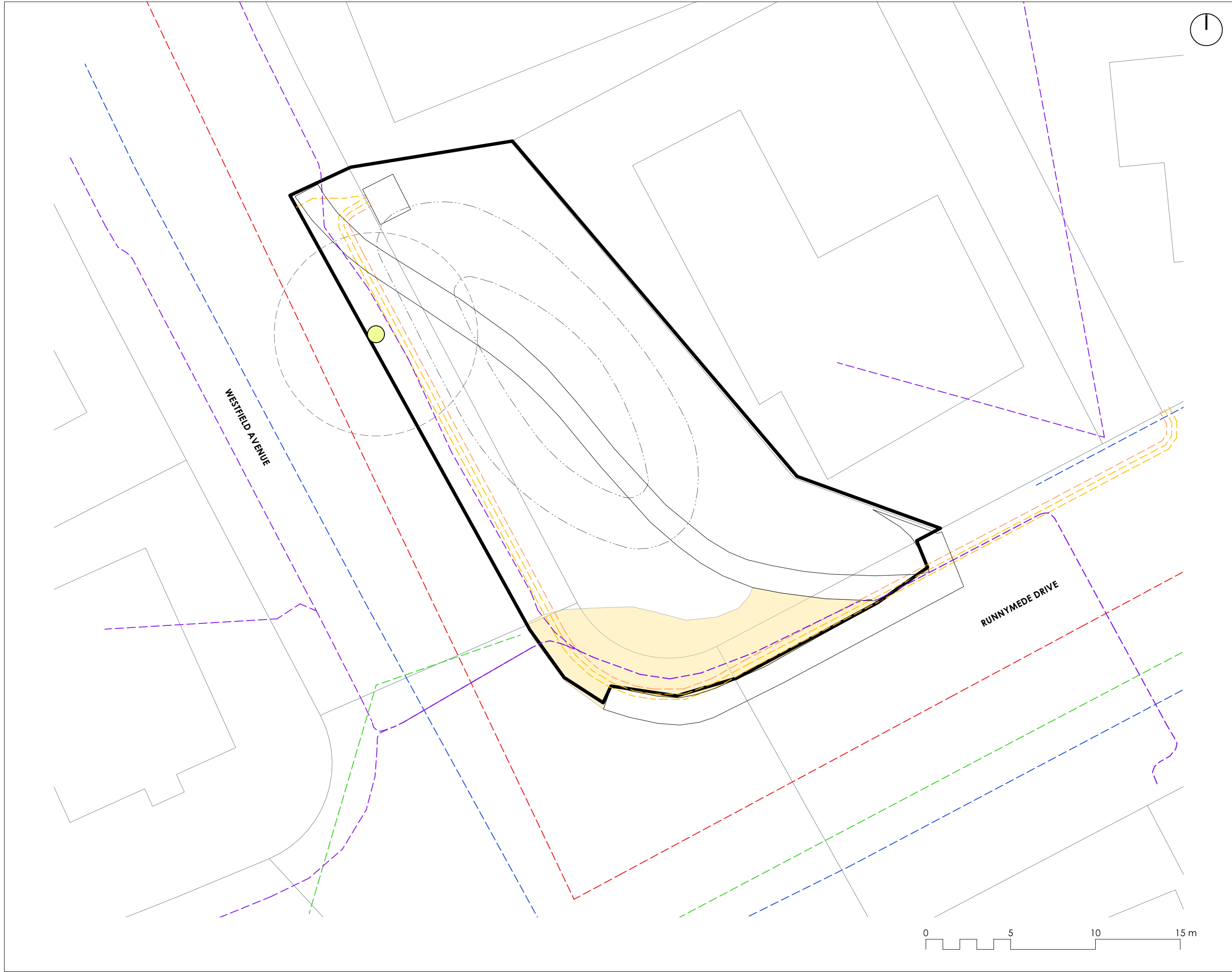
PREPARED BY



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.

5435



RUNNYMEDE RESERVE

Community Park Tree Planting

ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Existing Planting

LEGEND



Existing Tree/
Vegetation



Existing
Mound/Contour

Existing Services



Light



Stormwater



Water supply



Wastewater



Power (LV)



Power (11kV)



Enable Fibre

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



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

Design JG	Date 13/12/2023
Drawn JG	Scale 1:200@A3
Check TS	

REF. NO. 5435	PAGE REVISION 1	P 01
------------------	-----------------------	------



RUNNYMEDE RESERVE

Community Park Tree Planting

ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Tree Planting Zones

LEGEND



Existing Tree/
Vegetation



Existing
Mound/Contour

Existing Services



Light



Stormwater



Water supply



Wastewater



Power (LV)



Power (11kV)



Enable Fibre

Potential Tree Planting Areas



5m - 10m
Trees Height Zone



10m - 15m
Trees Height Zone

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



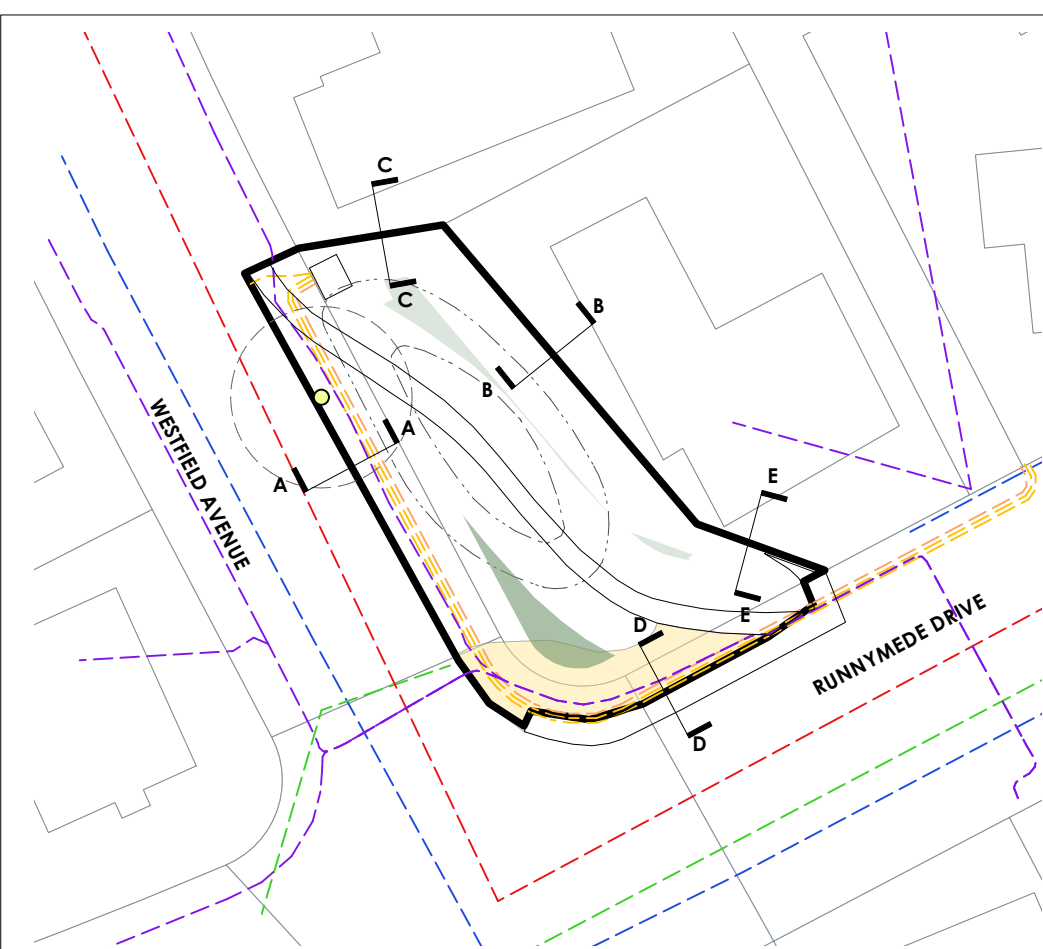
Te Uruti Building, 48 Hereford St, PO Box 2833, Christchurch 8140
Mountaineer Building, 32 Rees St, Queenstown 9300

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

Design JG	Date 13/12/2023
Drawn JG	Scale 1:200@A3
Check TS	

REF. NO. 5435	PAGE REVISION 1	P 02
------------------	-----------------------	------





Location Plan @ 1:500



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Tree Planting Zones

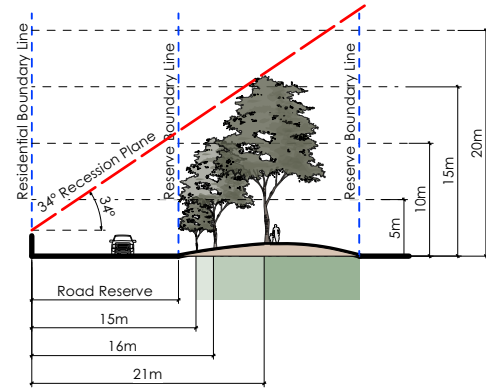
Lot Boundary Cross Sections

- LEGEND**
- Existing Tree/
Vegetation
 - Existing
Mound/Contour

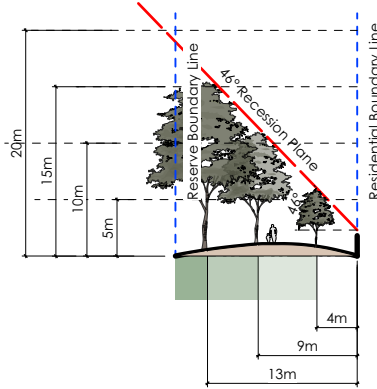
- Existing Services
- Light
 - Stormwater
 - Water supply
 - Wastewater
 - Power (LV)
 - Power (11kV)
 - Enable Fibre

- Potential Tree Planting Areas
- 5m - 10m
Trees Height Zone
 - 10m - 15m
Trees Height Zone

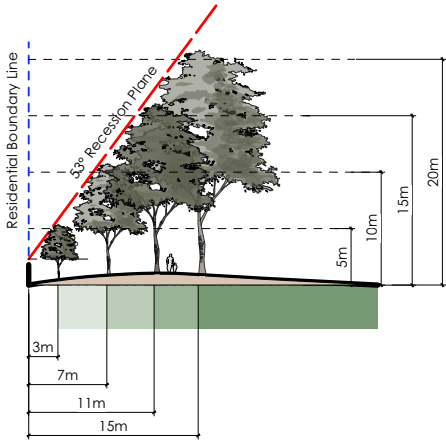
INDICATIVE CROSS SECTION THROUGH THE BOUNDARIES



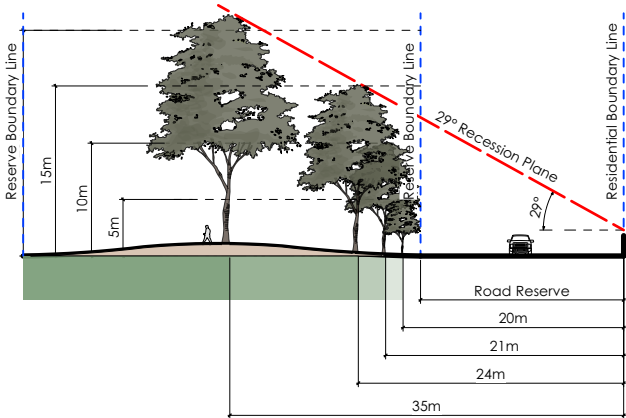
Cross Section A-A



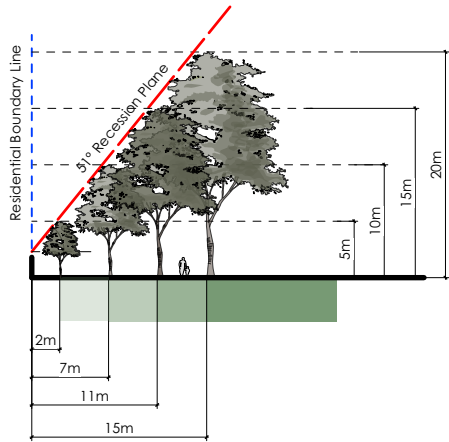
Cross Section B-B



Cross Section C-C



Cross Section D-D



Cross Section E-E

REV	DATE	BY	ISSUE
1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY

Kamo Marsh
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

Design JG
Drawn JG
Check TS
Date 13/12/2023
Scale Not to Scale

REF. NO. 5435
PAGE 1
P 03
REVISION 1



8 am



Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



Kamo Marsh

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

Design JG Drawn JG Check TS	Date 13/12/2023 Scale Not to Scale
REF. NO. 5435	PAGE P 04 REVISION 1



10 am



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Shade Study - Winter Solstice

10 am

Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE

 **Kamo Marsh**
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

Design JG Drawn JG Check TS	Date 13/12/2023 Scale Not to Scale
-----------------------------------	---------------------------------------

REF. NO. 5435	PAGE REVISION 1	P 05
------------------	--------------------	------

Winter Solstice
Date: 22nd June



12 noon



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Shade Study - Winter Solstice

12 noon

Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



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

Design JG
Drawn JG
Check TS
Date 13/12/2023
Scale Not to Scale

REF. NO. 5435
PAGE REVISION 1 P 06



2 pm



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Shade Study - Winter Solstice

2 pm

Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



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

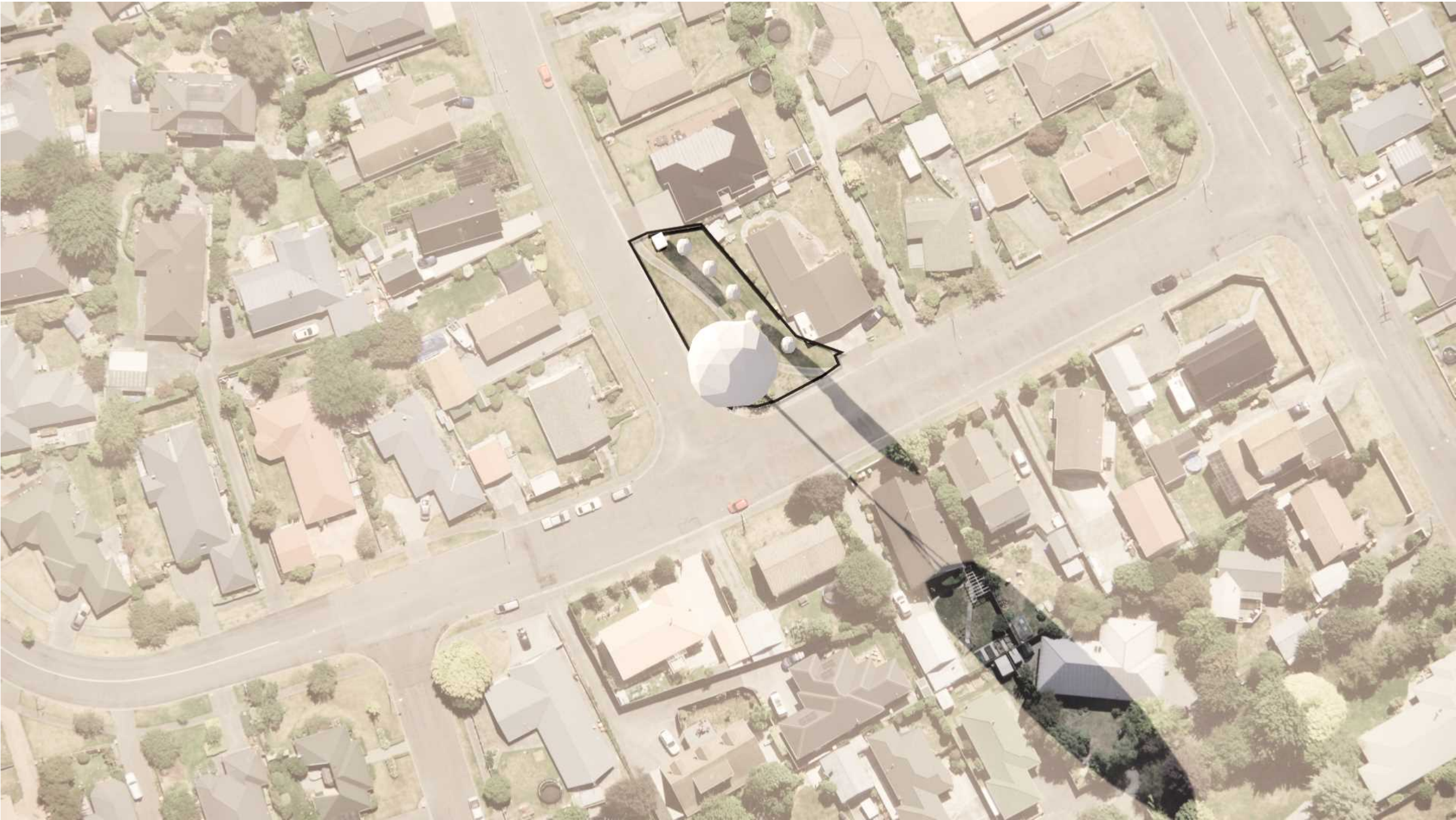
Design JG
Drawn JG
Check TS
Date 13/12/2023
Scale Not to Scale

REF. NO. 5435
PAGE REVISION 1 P 07

Winter Solstice
Date: 22nd June



4 pm



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Shade Study - Winter Solstice

4 pm

Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE

 **Kamo Marsh**
Te Uruti Building, 48 Hereford St, PO Box 2833, Christchurch 8140
Mountaineer Building, 32 Rees St, Queenstown 9300
T: 03 3668 181
E: admin@kamomash.co.nz
W: kamomash.co.nz

Design JG Drawn JG Check TS	Date 13/12/2023 Scale Not to Scale
-----------------------------------	---------------------------------------

REF. NO. 5435	PAGE REVISION 1	P 08
------------------	--------------------	------

Winter Solstice
Date: 22nd June



6 pm



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Shade Study - Winter Solstice

6 pm

Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE

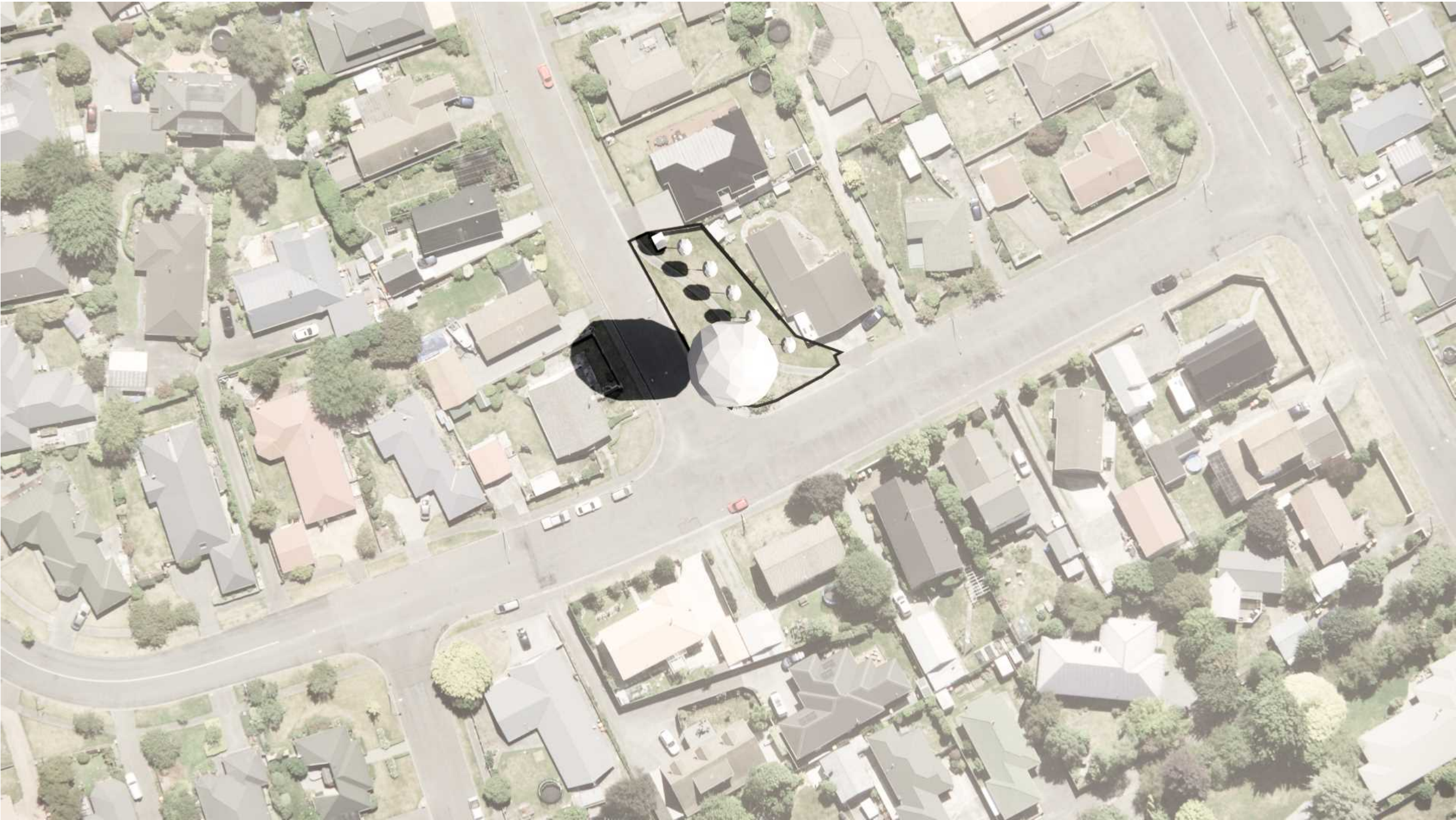
Kamo Marsh
Te Uruti Building, 48 Hereford St, PO Box 2833, Christchurch 8140
Mountaineer Building, 32 Rees St, Queenstown 9300
T: 03 3668 181
E: admin@kamomارش.co.nz
W: kamomارش.co.nz

Design JG Drawn JG Check TS	Date 13/12/2023 Scale Not to Scale
-----------------------------------	---------------------------------------

REF. NO. 5435	PAGE REVISION 1	P 09
------------------	--------------------	------



8 am



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Shade Study - Summer Solstice

8 am

Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



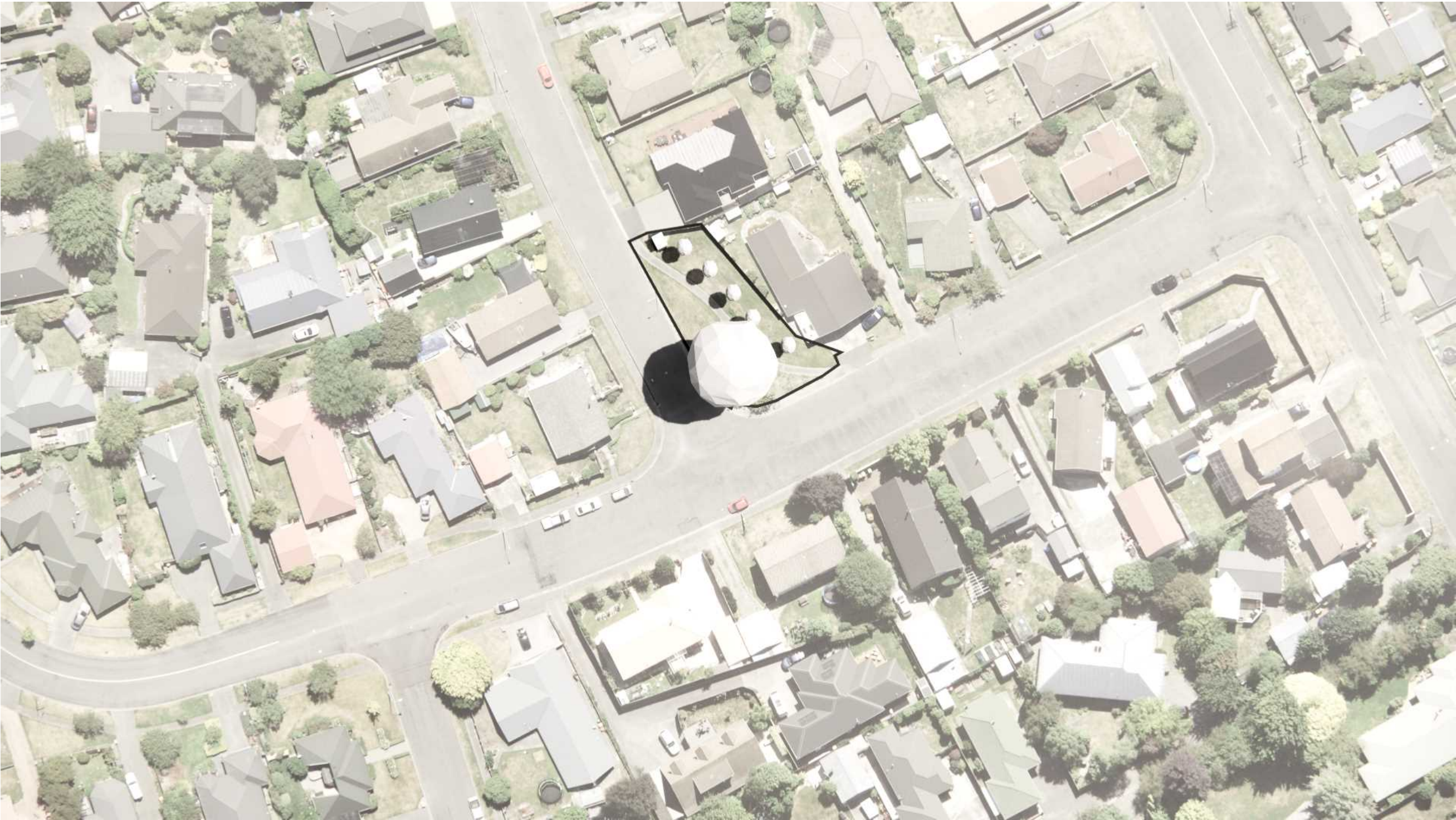
Te Uruli Building, 48 Hereford St, PO Box 2833, Christchurch 8140
Mountaineer Building, 32 Rees St, Queenstown 9300
T: 03 3668 181
E: admin@kamommarsh.co.nz
W: kamommarsh.co.nz

Design JG
Drawn JG
Check TS
Date 13/12/2023
Scale Not to Scale

REF. NO. 5435
PAGE REVISION P 10 1



10 am



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Shade Study - Summer Solstice

10 am

Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



Kamo Marsh

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

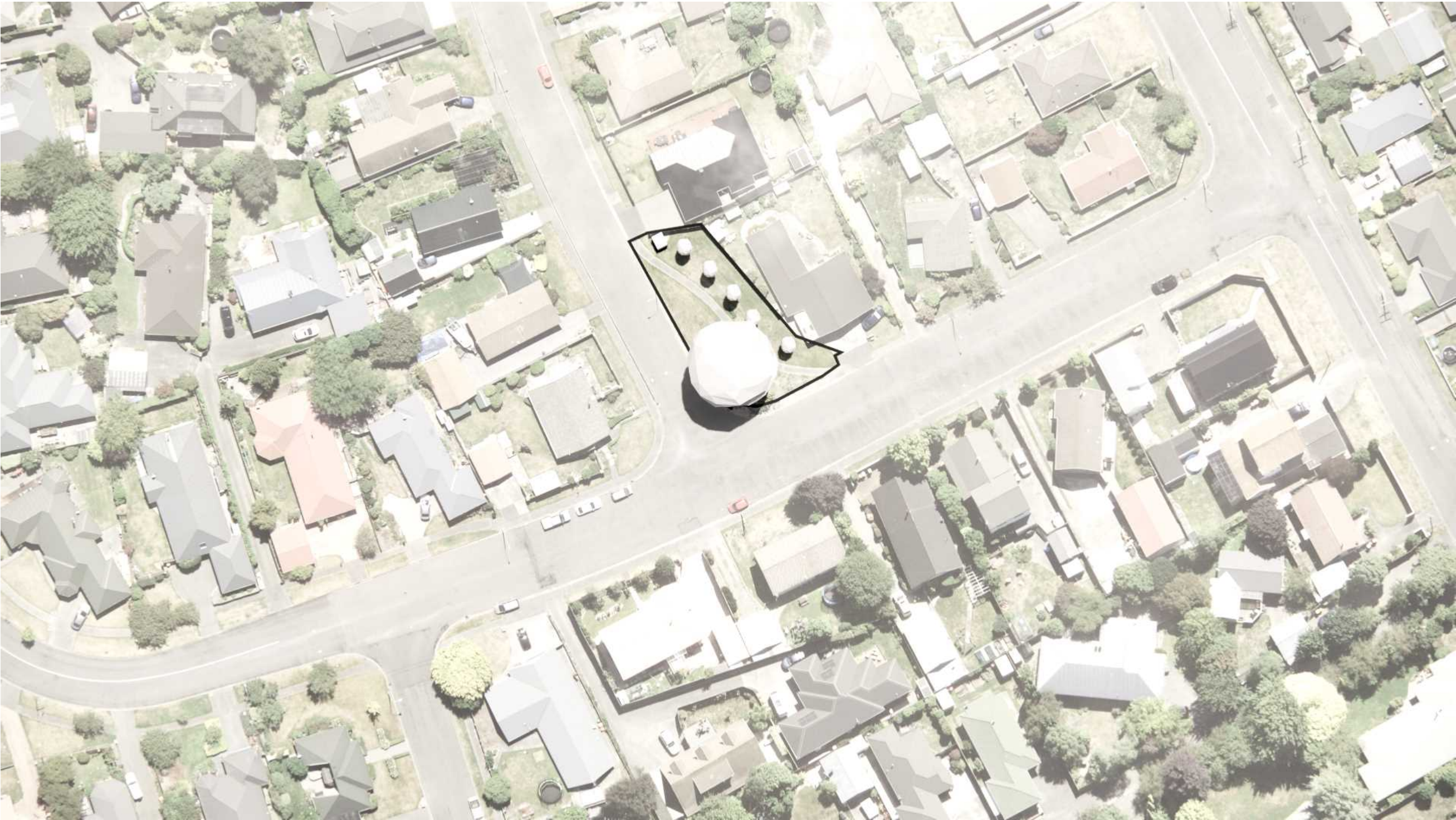
T. 03 3668 181
E. admin@kamommarsh.co.nz
W. kamommarsh.co.nz

Design JG	Date 13/12/2023
Drawn JG	Scale Not to Scale
Check TS	

REF. NO. 5435	PAGE REVISION 1
------------------	--------------------



12 noon



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Shade Study - Summer Solstice

12 noon

Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



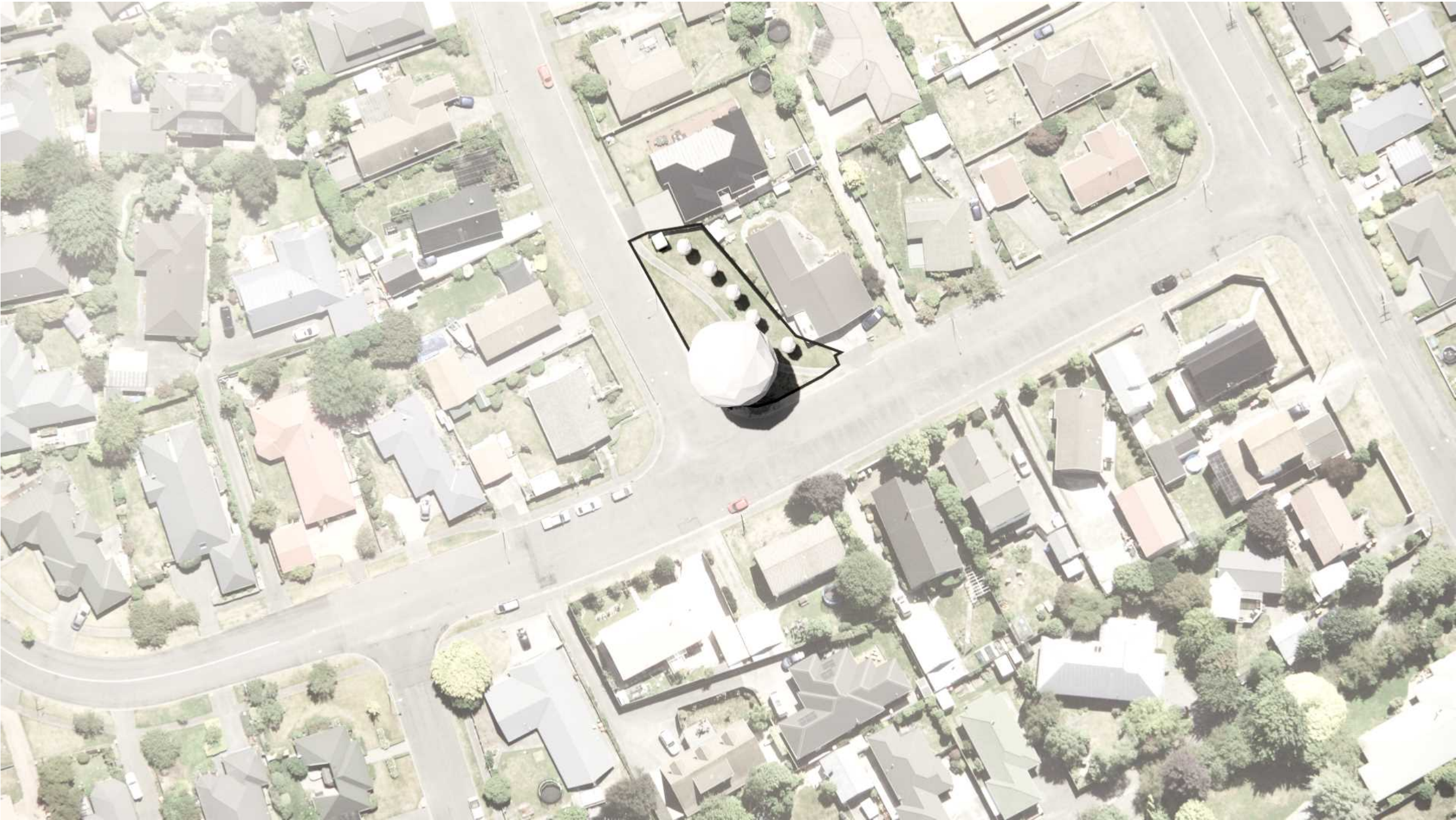
Te Uruti Building, 48 Hereford St, PO Box 2833, Christchurch 8140
Mountaineer Building, 32 Rees St, Queenstown 9300
T: 03 3668 181
E: admin@kamommarsh.co.nz
W: kamommarsh.co.nz

Design JG
Drawn JG
Check TS
Date 13/12/2023
Scale Not to Scale

REF. NO. 5435
PAGE REVISION P 12
1



2 pm



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Shade Study - Summer Solstice

2 pm

Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



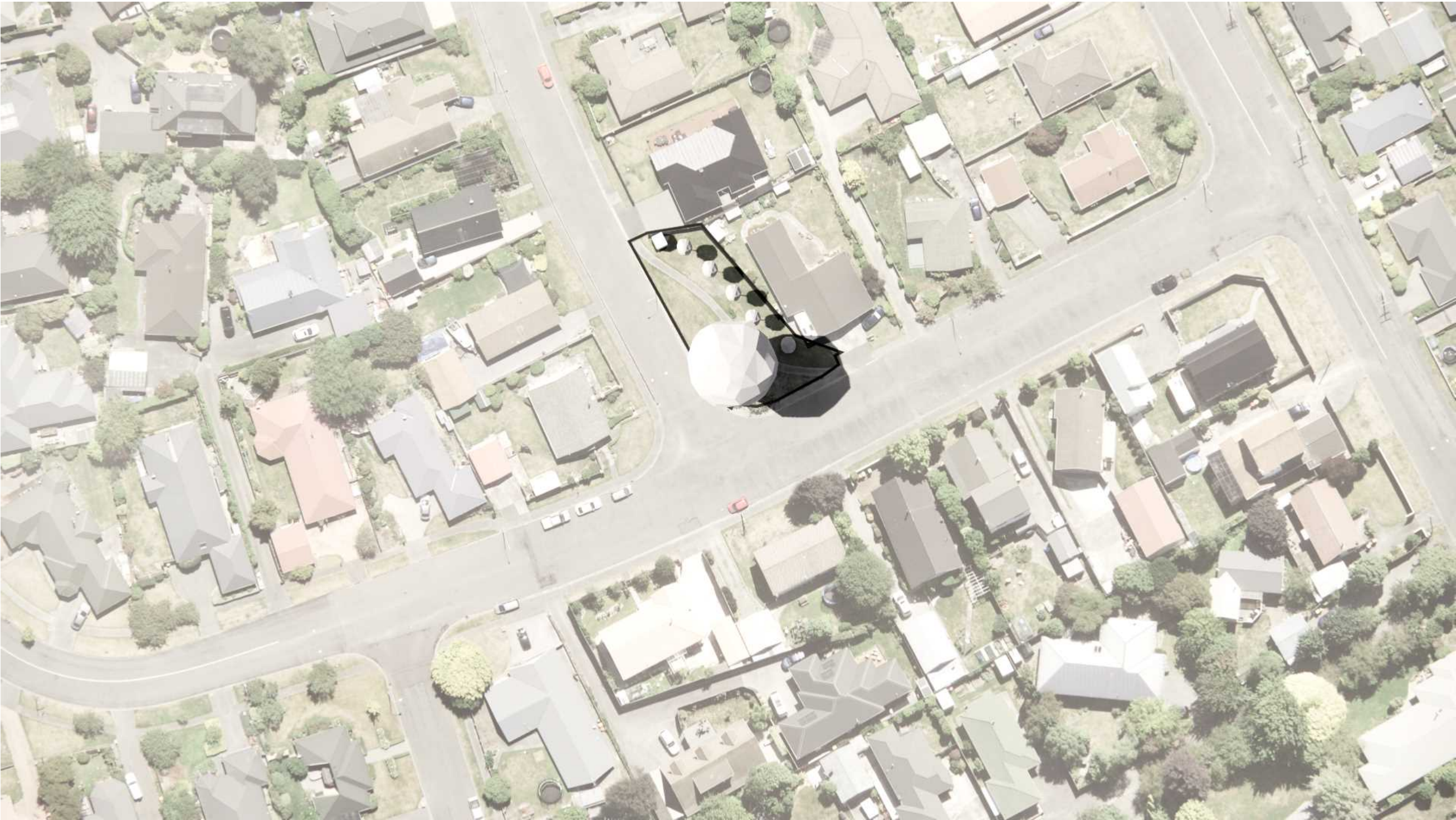
Te Uruli Building, 48 Hereford St, PO Box 2833, Christchurch 8140
Mountaineer Building, 32 Rees St, Queenstown 9300
T: 03 3668 181
E: admin@kamommarsh.co.nz
W: kamommarsh.co.nz

Design JG
Drawn JG
Check TS
Date 13/12/2023
Scale Not to Scale

REF. NO. 5435
PAGE REVISION P 13 1



4 pm



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Shade Study - Summer Solstice

4 pm

Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE

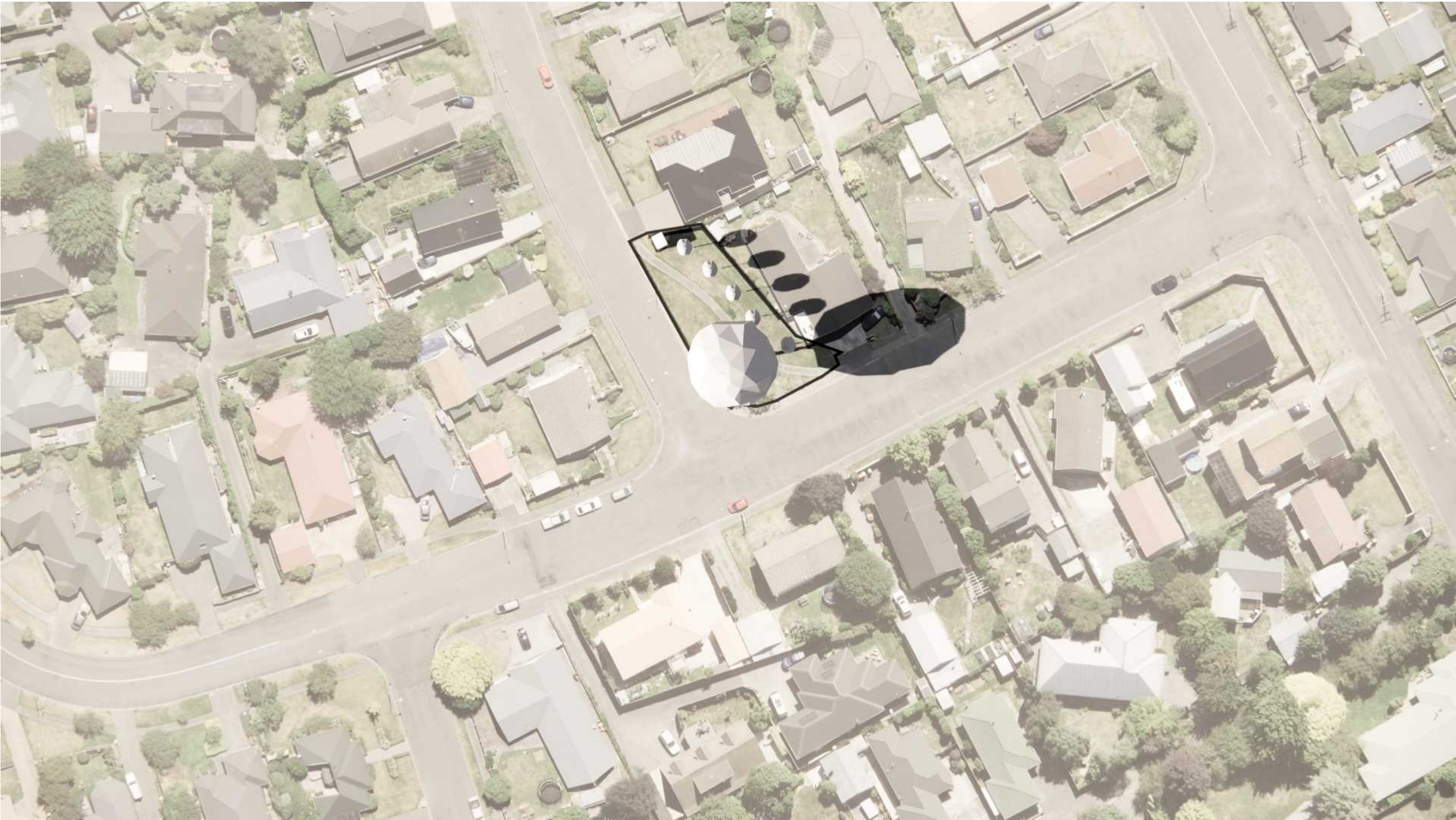
Kamo Marsh
Te Uruli Building, 48 Hereford St, PO Box 2833, Christchurch 8140
Mountaineer Building, 32 Rees St, Queenstown 9300
T: 03 3668 181
E: admin@kamomارش.co.nz
W: kamomارش.co.nz

Design JG Drawn JG Check TS	Date 13/12/2023 Scale Not to Scale
-----------------------------------	---------------------------------------

REF. NO. 5435	PAGE REVISION 1
------------------	--------------------



6 pm



RUNNYMEDE RESERVE

Community Park Tree Planting
ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Shade Study - Summer Solstice

6 pm

Note:
Trees in the model are shown
at 4m, 15m height

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



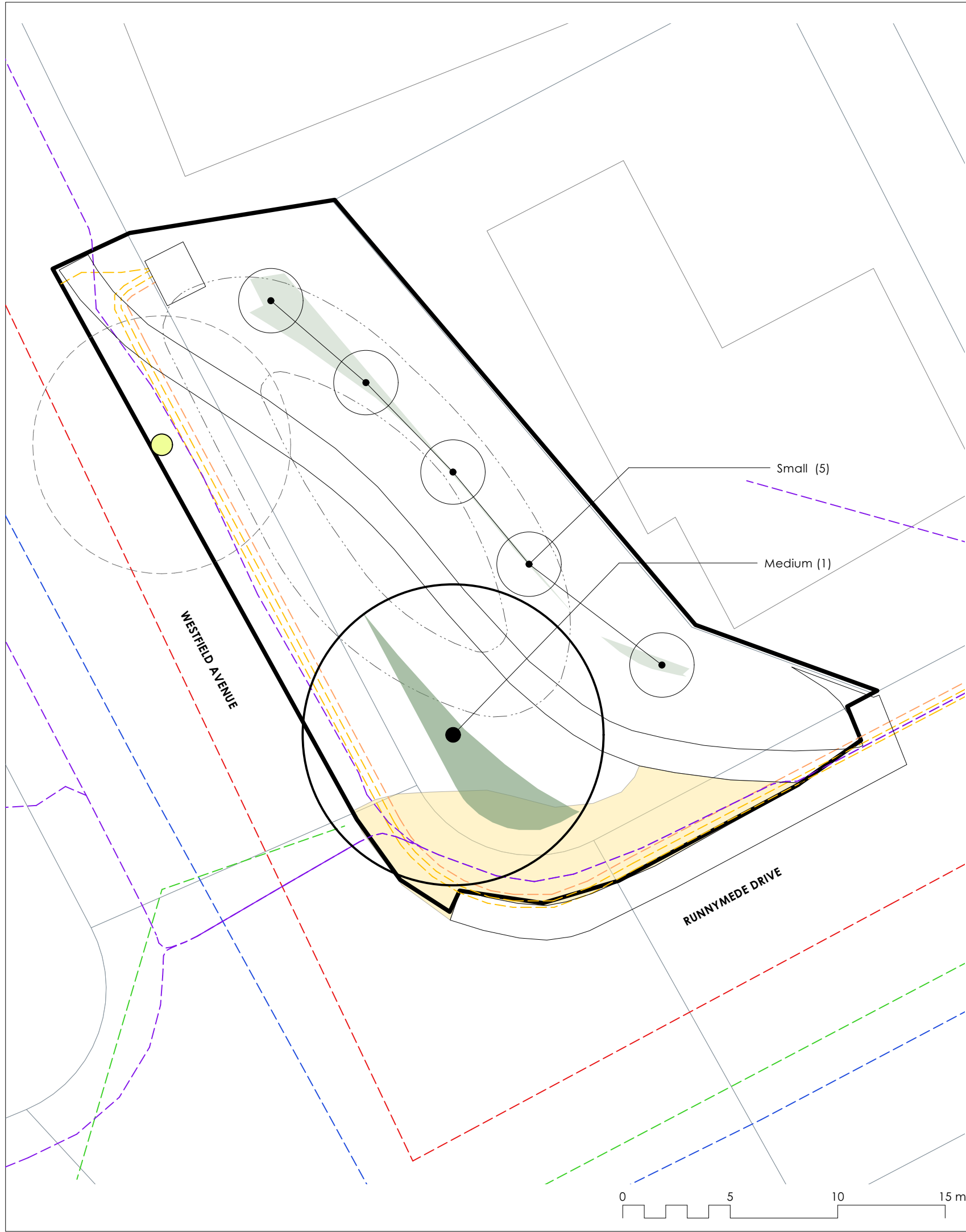
Kamo Marsh

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

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

Design JG	Date 13/12/2023
Drawn JG	Scale Not to Scale
Check TS	

REF. NO. 5435	PAGE REVISION 1
------------------	--------------------



PLANT SCHEDULE - RUNNYMEDE RESERVE			
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

Note: the small tree is based on a 4m high and 3m dia spread tree size.

RUNNYMEDE RESERVE

Community Park Tree Planting

ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE
Tree Planting Plan

LEGEND



Existing Tree/
Vegetation



Existing
Mound/Contour

Existing Services

- Light
- Stormwater
- Water supply
- Wastewater
- Power (LV)
- Power (11kV)
- 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.

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



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

Design JG
Drawn JG
Check TS

Date 13/12/2023
Scale 1:200@A3

REF. NO.
5435

PAGE
REVISION 1

P 16

RUNNYMEDE RESERVE		
Park Canopy Cover Summary		
Existing number of trees		0
Existing canopy cover	approx.	13%
Proposed number of new trees		6
Proposed net canopy cover(existing vegetation and proposed)	approx.	39%

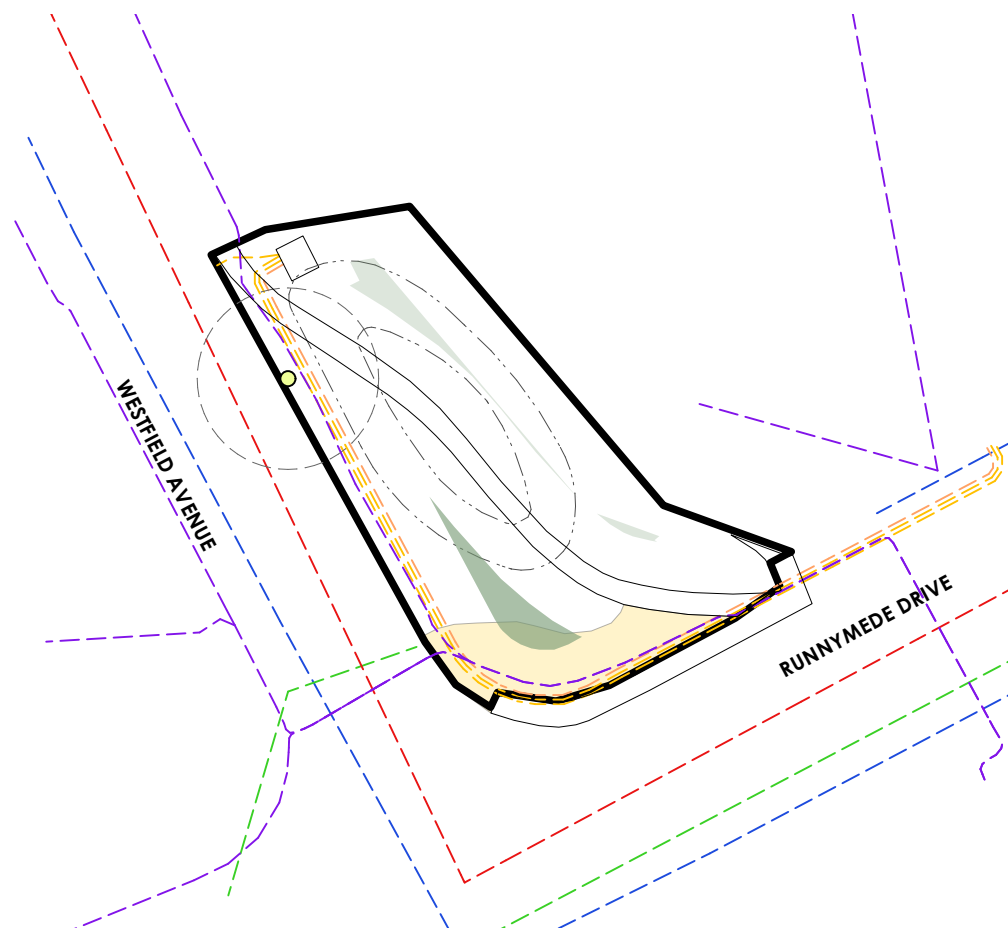
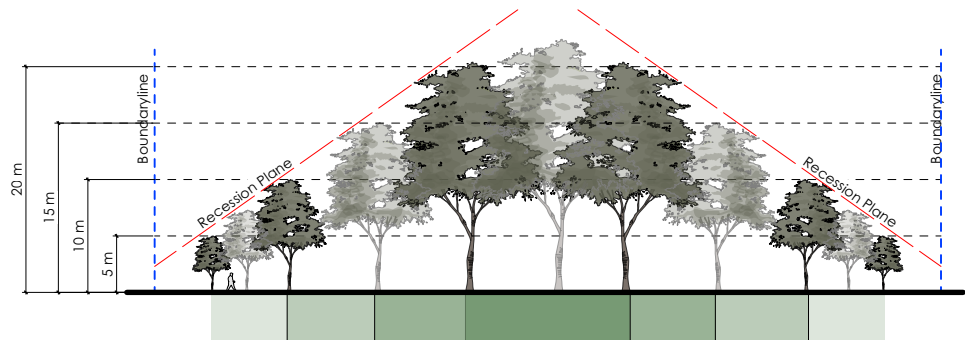
Guideline Summary

- 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



RUNNYMEDE RESERVE

Community Park Tree Planting

ADDRESS
2 Westfield Avenue, Templeton,
Christchurch 8042

CLIENT
Christchurch City Council

RUNNYMEDE RESERVE

Tree Planting Guidelines

LEGEND



Existing Tree/
Vegetation



Existing
Mound/Contour

Existing Services

- Light
- Stormwater
- Water supply
- Wastewater
- Power (LV)
- Power (11kV)
- Enable Fibre

Potential Tree Planting Areas

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

1	13.12.23	JG	PRELIMINARY
0	01.12.23	JG	PRELIMINARY
REV	DATE	BY	ISSUE



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

Design JG	Date 13/12/2023
Drawn JG	Scale Not to Scale
Check TS	

REF. NO. 5435	PAGE REVISION P 17 1
------------------	-------------------------------