

Align

Juniper Reserve Community Park Tree Planting Study

[For Information]

21/02/2024

DWG NO.	DESCRIPTION
CCC001F-DRG-LA-100	EXISTING PLANTING
CCC001F-DRG-LA-101	TREE PLANTING ZONES
CCC001F-DRG-LA-102	LOT BOUNDARY CROSS SECTIONS
CCC001F-DRG-LA-103	SHADE STUDY - SUMMER SOLSTICE - 8 AM
CCC001F-DRG-LA-104	SHADE STUDY - SUMMER SOLSTICE - 10 AM
CCC001F-DRG-LA-105	SHADE STUDY - SUMMER SOLSTICE - 12 NOON
CCC001F-DRG-LA-106	SHADE STUDY - SUMMER SOLSTICE - 2 PM
CCC001F-DRG-LA-107	SHADE STUDY - SUMMER SOLSTICE - 4 PM
CCC001F-DRG-LA-108	SHADE STUDY - SUMMER SOLSTICE - 6 PM
CCC001F-DRG-LA-109	SHADE STUDY - WINTER SOLSTICE - 8 AM
CCC001F-DRG-LA-110	SHADE STUDY - WINTER SOLSTICE - 10 AM
CCC001F-DRG-LA-111	SHADE STUDY - WINTER SOLSTICE - 12 NOON
CCC001F-DRG-LA-112	SHADE STUDY - WINTER SOLSTICE - 2 PM
CCC001F-DRG-LA-113	SHADE STUDY - WINTER SOLSTICE - 4 PM
CCC001F-DRG-LA-114	SHADE STUDY - WINTER SOLSTICE - 6 PM
CCC001F-DRG-LA-115	INDICATIVE TREE PLANTING PLAN
CCC001F-DRG-LA-116	EXISTING PLAN
CCC001F-DRG-LA-117	PROPOSED CONCEPT PLAN
CCC001F-DRG-LA-118	TREE PLANTING GUIDELINES



1:5000 @ A3





GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- RESERVE BOUNDARY

KEY:

- EXISTING CANOPY COVERAGE
- EXISTING GARDEN BED
- FOOTPATH
- LOT BOUNDARIES
- EXISTING BOLLARD FENCE
- 1 STONE SCULPTURE
- 2 PARK FURNITURE

REVISIONS

REV	DATE	DESCRIPTION
A	21/02/2024	ISSUE FOR INFORMATION



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PO Box 1302, Christchurch 8140 W - www.align.net.nz

PROJECT

Juniper Reserve
34 Juniper Place, Burnside, Christchurch

DRAWING

EXISTING PLANTING

SCALE	1:500 @ A3
DATE	21/02/2024

DRAWN	MT
CHECKED	JG

STAGE	FOR INFORMATION
JOB NO.	CCC001F

DRAWING NO.
CCC001F-DRG-LA-100

REVISION NO. A



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- RESERVE BOUNDARY

KEY:

- EXISTING CANOPY COVERAGE
- EXISTING GARDEN BED
- FOOTPATH
- LOT BOUNDARIES

POTENTIAL TREE PLANTING AREAS:

- SMALL: 5 - 10M TREE HEIGHT ZONE
- MEDIUM: 10 - 15M TREE HEIGHT ZONE
- LARGE: 15 - 20M TREE HEIGHT ZONE
- VERY LARGE: 20M+ TREE HEIGHT ZONE
- OFFSET FROM SERVICES
- OFFSET FROM FOOTPATH
- CCC DEFINED POTENTIAL FOREST PATCH

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Juniper Reserve
34 Juniper Place, Burnside, Christchurch

DRAWING

TREE PLANTING ZONES

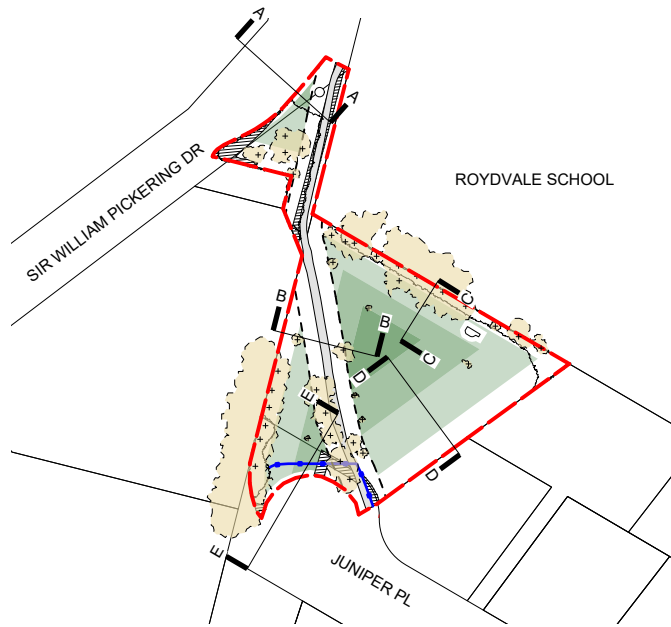
SCALE	1:500 @ A3
DATE	21/02/2024

DRAWN	MT
CHECKED	JG

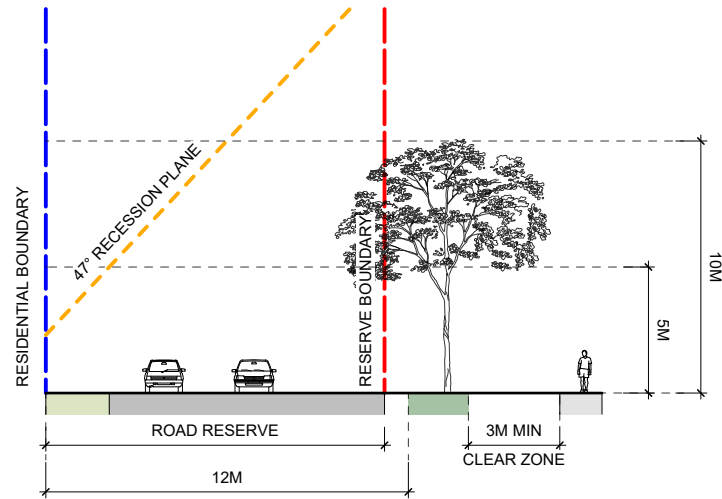
STAGE	FOR INFORMATION
JOB NO.	CCC001F

DRAWING NO.
CCC001F-DRG-LA-101

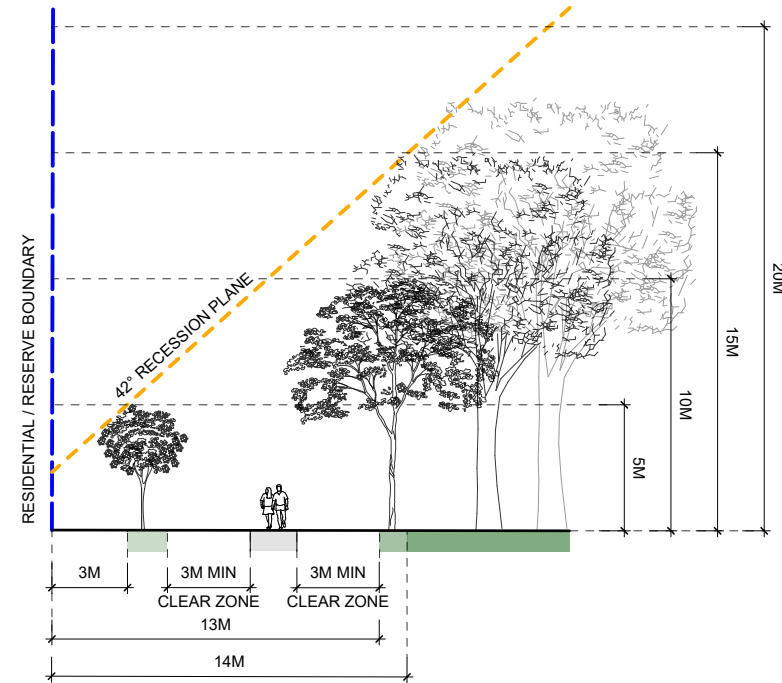
REVISION NO. A



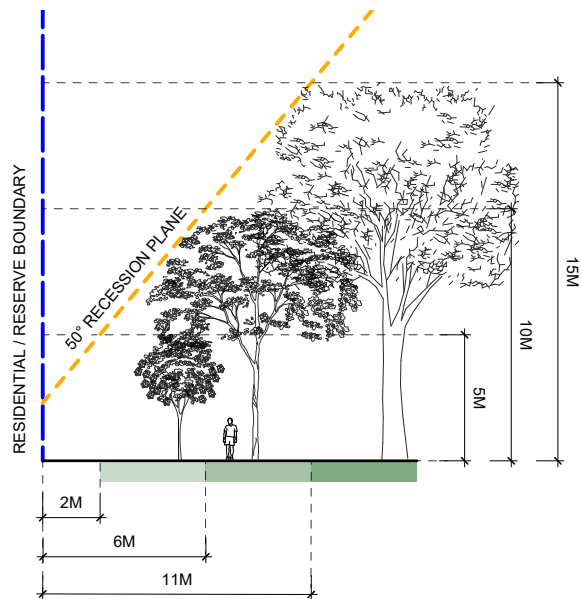
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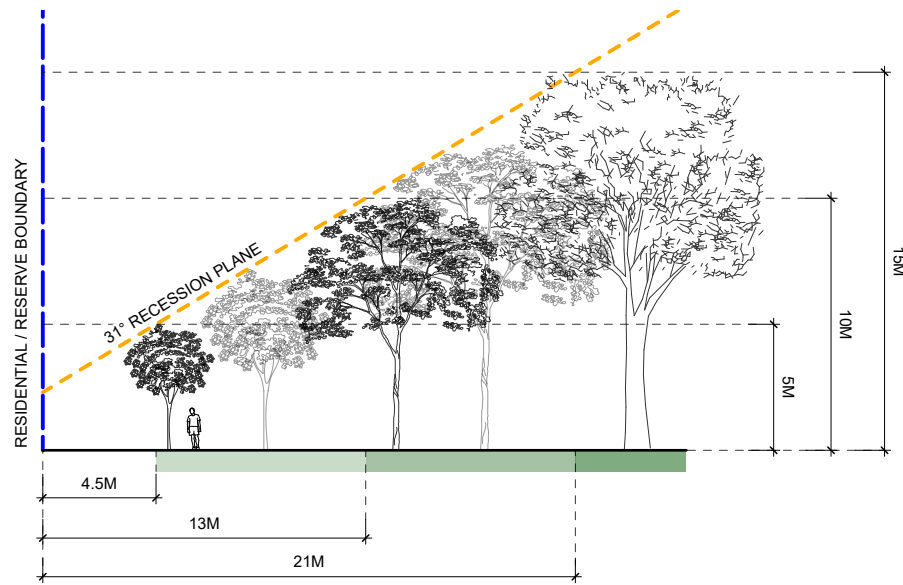
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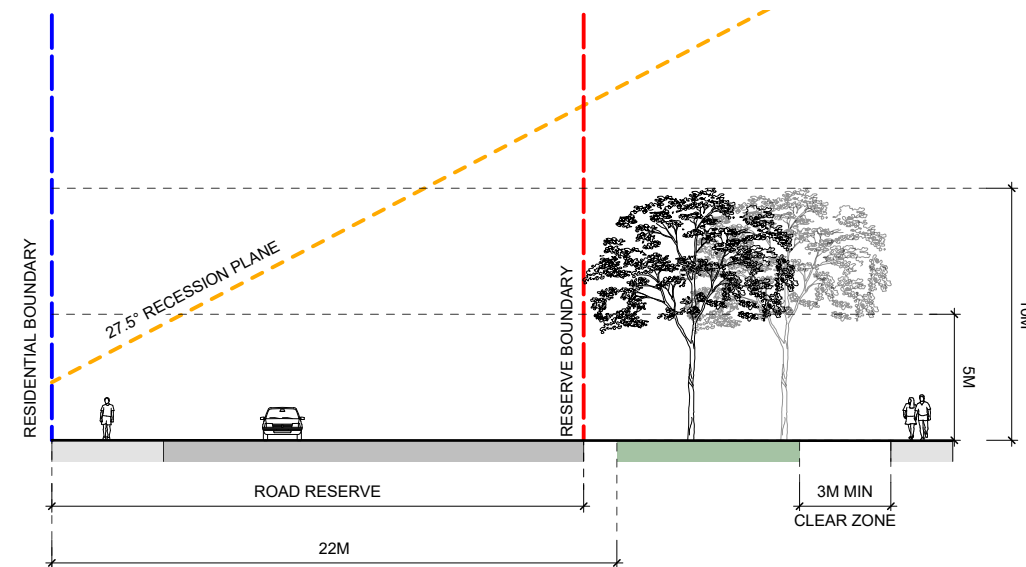
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Scale: 1:300 @ A3



4 SECTION C-C
Scale: 1:300 @ A3



5 SECTION D-D
Scale: 1:300 @ A3



6 SECTION E-E
Scale: 1:300 @ A3

GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118

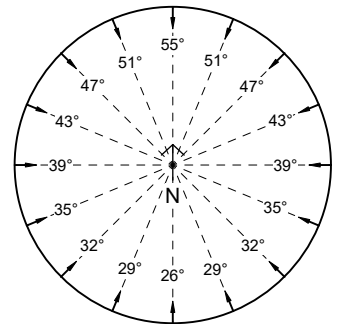
RESERVE BOUNDARY

KEY:

- SMALL: 5 - 10M TREE HEIGHT ZONE
- MEDIUM: 10 - 15M TREE HEIGHT ZONE
- LARGE: 15 - 20M TREE HEIGHT ZONE
- VERY LARGE: 20M+ TREE HEIGHT ZONE
- OFFSET FROM SERVICES

RECESSION PLANE :

- RESIDENTIAL SUBURBAN ZONE



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PROJECT

Juniper Reserve
34 Juniper Place, Burnside, Christchurch

DRAWING

LOT BOUNDARY CROSS SECTIONS

SCALE 1:300 @ A3

DATE 21/02/2024

DRAWN MT

CHECKED JG

STAGE FOR INFORMATION

JOB NO. CCC001F

DRAWING NO.
CCC001F-DRG-LA-102

REVISION NO. A

SUMMER SOLSTICE
DATE 22nd DECEMBER
8 AM



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- RESERVE BOUNDARY

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Juniper Reserve
34 Juniper Place, Burnside, Christchurch

DRAWING

SHADE STUDY - SUMMER SOLSTICE
- 8 AM

SCALE 1:500 @ A3
DATE 21/02/2024

DRAWN MT
CHECKED JG

STAGE FOR INFORMATION
JOB NO. CCC001F

DRAWING NO.
CCC001F-DRG-LA-103

REVISION NO. A

SUMMER SOLSTICE
DATE 22nd DECEMBER
10 AM



GENERAL NOTES:

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- RESERVE BOUNDARY

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34 Juniper Place, Burnside, Christchurch

DRAWING

SHADE STUDY - SUMMER SOLSTICE
- 10 AM

SCALE	1:500 @ A3
DATE	21/02/2024

DRAWN	MT
CHECKED	JG

STAGE	FOR INFORMATION
JOB NO.	CCC001F

DRAWING NO.
CCC001F-DRG-LA-104

REVISION NO. A

SUMMER SOLSTICE
DATE 22nd DECEMBER
12 NOON



GENERAL NOTES:

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- RESERVE BOUNDARY

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DRAWING

SHADE STUDY - SUMMER SOLSTICE
- 12 NOON

SCALE	1:500 @ A3
DATE	21/02/2024

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STAGE	FOR INFORMATION
JOB NO.	CCC001F

DRAWING NO.
CCC001F-DRG-LA-105

REVISION NO. A

SUMMER SOLSTICE
DATE 22nd DECEMBER
2 PM



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- — — RESERVE BOUNDARY

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Juniper Reserve
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DRAWING

SHADE STUDY - SUMMER SOLSTICE
- 2 PM

SCALE 1:500 @ A3
DATE 21/02/2024

DRAWN MT
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STAGE FOR INFORMATION
JOB NO. CCC001F

DRAWING NO.
CCC001F-DRG-LA-106

REVISION NO. A

SUMMER SOLSTICE
DATE 22nd DECEMBER
4 PM



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- RESERVE BOUNDARY

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DRAWING

SHADE STUDY - SUMMER SOLSTICE
- 4 PM

SCALE	1:500 @ A3
DATE	21/02/2024

DRAWN	MT
CHECKED	JG

STAGE	FOR INFORMATION
JOB NO.	CCC001F

DRAWING NO.
CCC001F-DRG-LA-107

REVISION NO. A

SUMMER SOLSTICE
DATE 22nd DECEMBER
6 PM



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
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Juniper Reserve
34 Juniper Place, Burnside, Christchurch

DRAWING

SHADE STUDY - SUMMER SOLSTICE
- 6 PM

SCALE	1:500 @ A3
DATE	21/02/2024

DRAWN	MT
CHECKED	JG

STAGE	FOR INFORMATION
JOB NO.	CCC001F

DRAWING NO.
CCC001F-DRG-LA-108

REVISION NO. A

WINTER SOLSTICE
DATE 22nd JUNE
8 AM



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- RESERVE BOUNDARY

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Juniper Reserve
34 Juniper Place, Burnside, Christchurch

DRAWING

SHADE STUDY - WINTER SOLSTICE
- 8 AM

SCALE 1:500 @ A3
DATE 21/02/2024

DRAWN MT
CHECKED JG

STAGE FOR INFORMATION
JOB NO. CCC001F

DRAWING NO.
CCC001F-DRG-LA-109

REVISION NO. A

WINTER SOLSTICE
DATE 22nd JUNE
10 AM



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- RESERVE BOUNDARY

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DRAWING

SHADE STUDY - WINTER SOLSTICE
- 10 AM

SCALE 1:500 @ A3
DATE 21/02/2024

DRAWN MT
CHECKED JG

STAGE FOR INFORMATION
JOB NO. CCC001F

DRAWING NO.
CCC001F-DRG-LA-110

REVISION NO. A

WINTER SOLSTICE
DATE 22nd JUNE
12 NOON



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
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DRAWING

SHADE STUDY - WINTER SOLSTICE
- 12 NOON

SCALE 1:500 @ A3
DATE 21/02/2024

DRAWN MT
CHECKED JG

STAGE FOR INFORMATION
JOB NO. CCC001F

DRAWING NO.
CCC001F-DRG-LA-111

REVISION NO. A

WINTER SOLSTICE
DATE 22nd JUNE
2 PM



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- RESERVE BOUNDARY

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Juniper Reserve
34 Juniper Place, Burnside, Christchurch

DRAWING

SHADE STUDY - WINTER SOLSTICE
- 2 PM

SCALE 1:500 @ A3
DATE 21/02/2024

DRAWN MT
CHECKED JG

STAGE FOR INFORMATION
JOB NO. CCC001F

DRAWING NO.
CCC001F-DRG-LA-112

REVISION NO. A

WINTER SOLSTICE
DATE 22nd JUNE
4 PM



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- — — RESERVE BOUNDARY

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Juniper Reserve
34 Juniper Place, Burnside, Christchurch

DRAWING

SHADE STUDY - WINTER SOLSTICE
- 4 PM

SCALE	1:500 @ A3
DATE	21/02/2024

DRAWN	MT
CHECKED	JG

STAGE	FOR INFORMATION
JOB NO.	CCC001F

DRAWING NO.
CCC001F-DRG-LA-113

REVISION NO. A

WINTER SOLSTICE
DATE 22nd JUNE
6 PM



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- RESERVE BOUNDARY

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Juniper Reserve
34 Juniper Place, Burnside, Christchurch

DRAWING

SHADE STUDY - WINTER SOLSTICE
- 6 PM

SCALE	1:500 @ A3
DATE	21/02/2024

DRAWN	MT
CHECKED	JG

STAGE	FOR INFORMATION
JOB NO.	CCC001F

DRAWING NO.
CCC001F-DRG-LA-114

REVISION NO. A



Planting Schedule - Juniper Reserve			
ID	Qty	Tree Category	Height
SM	11	Small Tree	5-10m Height
ME	7	Medium Tree	10-15m Height
LA	1	Large Tree	15-20m Height

Francis Reserve Summary		
Park Canopy Cover Summary		
Existing number of trees		38
Existing canopy cover	approx.	18%
Proposed number of new trees		19 + 100m2 of Forest Patch Planting
Proposed net canopy cover (existing vegetation and proposed)	approx.	54% excluding new Restoration Planting

GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- RESERVE BOUNDARY

KEY:

- EXISTING CANOPY COVERAGE
- EXISTING GARDEN BED
- FOOTPATH
- LOT BOUNDARIES
- EXISTING BOLLARD FENCE
- PROPOSED TREES

POTENTIAL TREE PLANTING AREAS:

- 5 - 10M TREE HEIGHT ZONE
- 10 - 15M TREE HEIGHT ZONE
- 15 - 20M TREE HEIGHT ZONE
- 20M+ TREE HEIGHT ZONE
- FOREST PATCH
- OFFSET FROM SERVICES
- OFFSET FROM FOOTPATH
- CCC DEFINED POTENTIAL FOREST PATCH

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Juniper Reserve
34 Juniper Place, Burnside, Christchurch

DRAWING

INDICATIVE TREE PLANTING PLAN

SCALE	1:500 @ A3
DATE	21/02/2024

DRAWN	MT
CHECKED	JG

STAGE	FOR INFORMATION
JOB NO.	CCC001F

DRAWING NO.	CCC001F-DRG-LA-115
REVISION NO.	A



GENERAL NOTES:

1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118
- — — RESERVE BOUNDARY

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EXISTING PLAN

SCALE	1:500 @ A3
DATE	21/02/2024

DRAWN	MT
CHECKED	JG

STAGE	FOR INFORMATION
JOB NO.	CCC001F

DRAWING NO.
CCC001F-DRG-LA-116

REVISION NO. A



GENERAL NOTES:

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PROPOSED CONCEPT PLAN

SCALE	1:500 @ A3
DATE	21/02/2024

DRAWN	MT
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JOB NO.	CCC001F

DRAWING NO.
CCC001F-DRG-LA-117

REVISION NO. A

GUIDE LINE SUMMARY

- 1. TREE PLANTING TO SPECIAL CHARACTER PARKS WILL CONTINUE THE ESTABLISHED THEME.
- 2. TREES WILL BE POSITIONED APPROPRIATELY TO ALLOW FOR DEBRIS MANAGEMENT.
- 3. TREE SPECIES SHALL BE WELL SUITED TO THE LOCAL CONDITIONS.
- 4. PLANTING ALONG WATERWAYS WILL BE PREDOMINANTLY NATIVE SPECIES.
- 5. CCC WILL AIM FOR 40-60% OF NEW TREE PLANTINGS AS NATIVES.

TREE SETBACK & SPACING

- 1. NO TREE SHALL INTRUDE THROUGH THE RECESSON PLANE.
- 2. NO TREE SHALL BE PLANTED CLOSER THAN 3.0M FROM A PATHWAY.
- 3. 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.
- 4. TREE SPACINGS SHALL BE A MINIMUM OF 5.0M APART TO ALLOW FOR EASY LAWN MOWING.
- 5. MIN. 2M OFFSET FOR LOW VOLTAGE POWER
- 6. MIN. 3M OFFSET FOR 11KV POWER
- 7. MIN. 5M OFFSET FOR 33-66KV
- 8. MIN. 1M OFFSET FOR ALL OTHER SERVICES AND HARD PAVING NOT MENTIONED ABOVE.



1 TREE PLANTING ZONES
Scale: 1:700 @ A3



2 TYPICAL TREE PLANTING PATTERN
Scale: N/A

GENERAL NOTES:

- 1. REFER TO TREE PLANTING GUIDELINES ON SHEET CCC001F-DRG-LA-118

RESERVE BOUNDARY

KEY:

- EXISTING CANOPY COVERAGE
- EXISTING GARDEN BED
- FOOTPATH / CONCRETE PAVEMENT
- LOT BOUNDARIES
- EXISTING BOLLARD FENCE

POTENTIAL TREE PLANTING AREAS:

- 5 - 10M TREE HEIGHT ZONE
- 10 - 15M TREE HEIGHT ZONE
- 15 - 20M TREE HEIGHT ZONE
- 20M+ TREE HEIGHT ZONE
- FOREST PATCH
- OFFSET FROM SERVICES
- OFFSET FROM FOOTPATH
- CCC DEFINED POTENTIAL FOREST PATCH

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PROJECT

Juniper Reserve
34 Juniper Place, Burnside, Christchurch

DRAWING

TREE PLANTING GUIDELINES

SCALE	AS SHOWN
DATE	21/02/2024

DRAWN	MT
CHECKED	JG

STAGE	FOR INFORMATION
JOB NO.	CCC001F

DRAWING NO.
CCC001F-DRG-LA-118

REVISION NO. A