



# Urban Forest Tree Planting Dunbars Landscape Reserve

PROJECT NUMBER: **BM240711** Concept Design

PROJECT ADDRESS: Dunbars Road,  
Halswell, Christchurch  
8025

CLIENT: Christchurch City Council

CLIENT ADDRESS: 53 Hereford Street  
Christchurch Central  
Christchurch 8013  
New Zealand

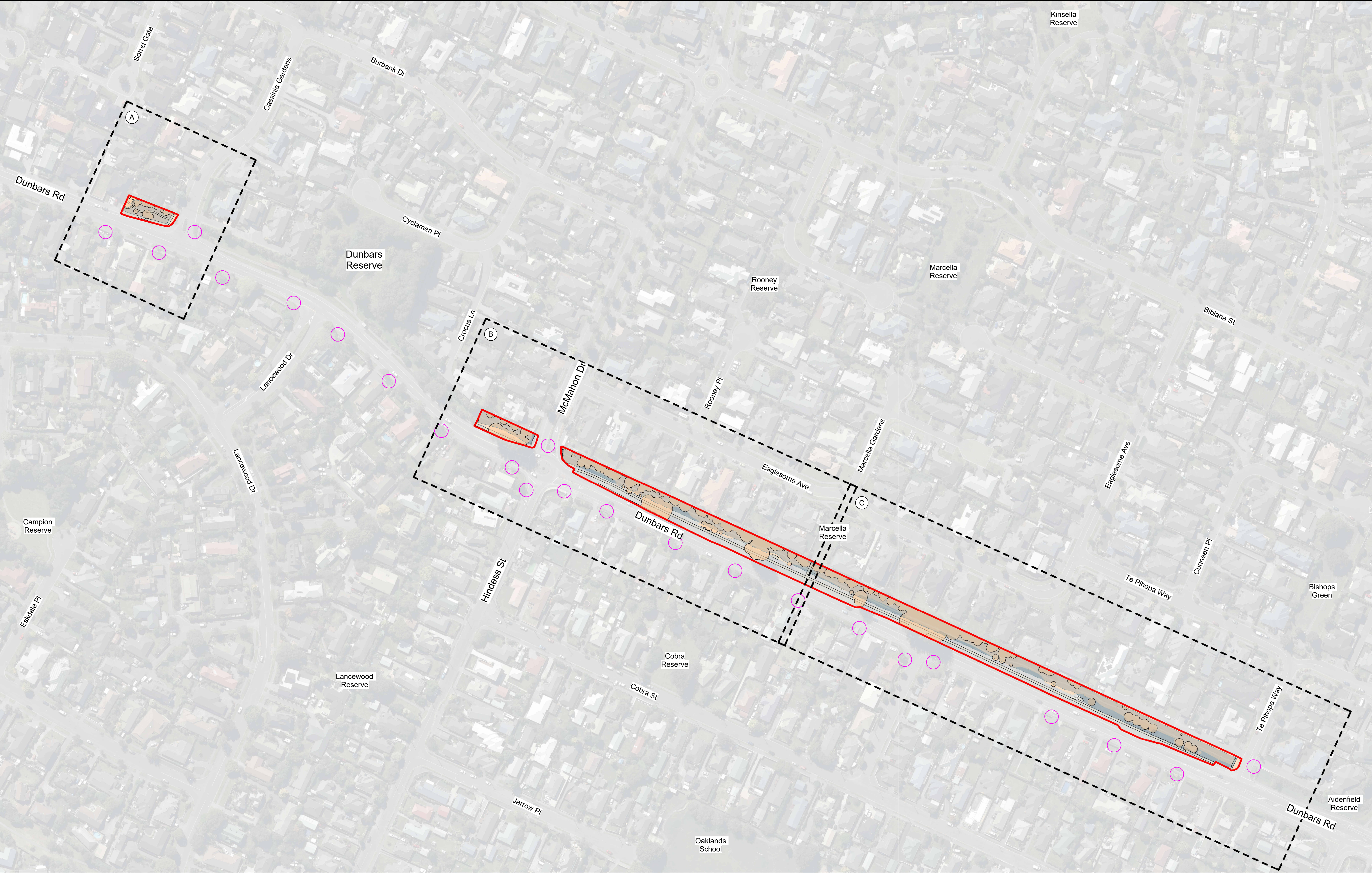


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| REV | DATE       | DESCRIPTION          |
|-----|------------|----------------------|
| A   | 12.12.2025 | Concept Design Draft |

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ORIGINAL IN COLOUR

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LEGEND

Existing Canopy Cover

Existing Lower Vegetation

Existing Attenuation Zone

Lightpole Clearance

Vegetation cover mapped based on LINZ aerial photography dated September 2025, with site visit to verify existing conditions.

Note, immature existing trees on site are shown at approximate 10-15 year spread.

Existing Specimen Trees - 199

Existing Canopy Cover - 3415.23 m<sup>2</sup> 36.2% Canopy coverage to existing site

REV DATE

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DESCRIPTION

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APR

HCO

Urban Forest Tree Planting

Dunbars Landscape Reserve

Existing Site

Design

Drawn

Check

SYo

SYo

HCo

Scale

1:1250 @ A1

1:2500 @ A3

Date

12.12.2025

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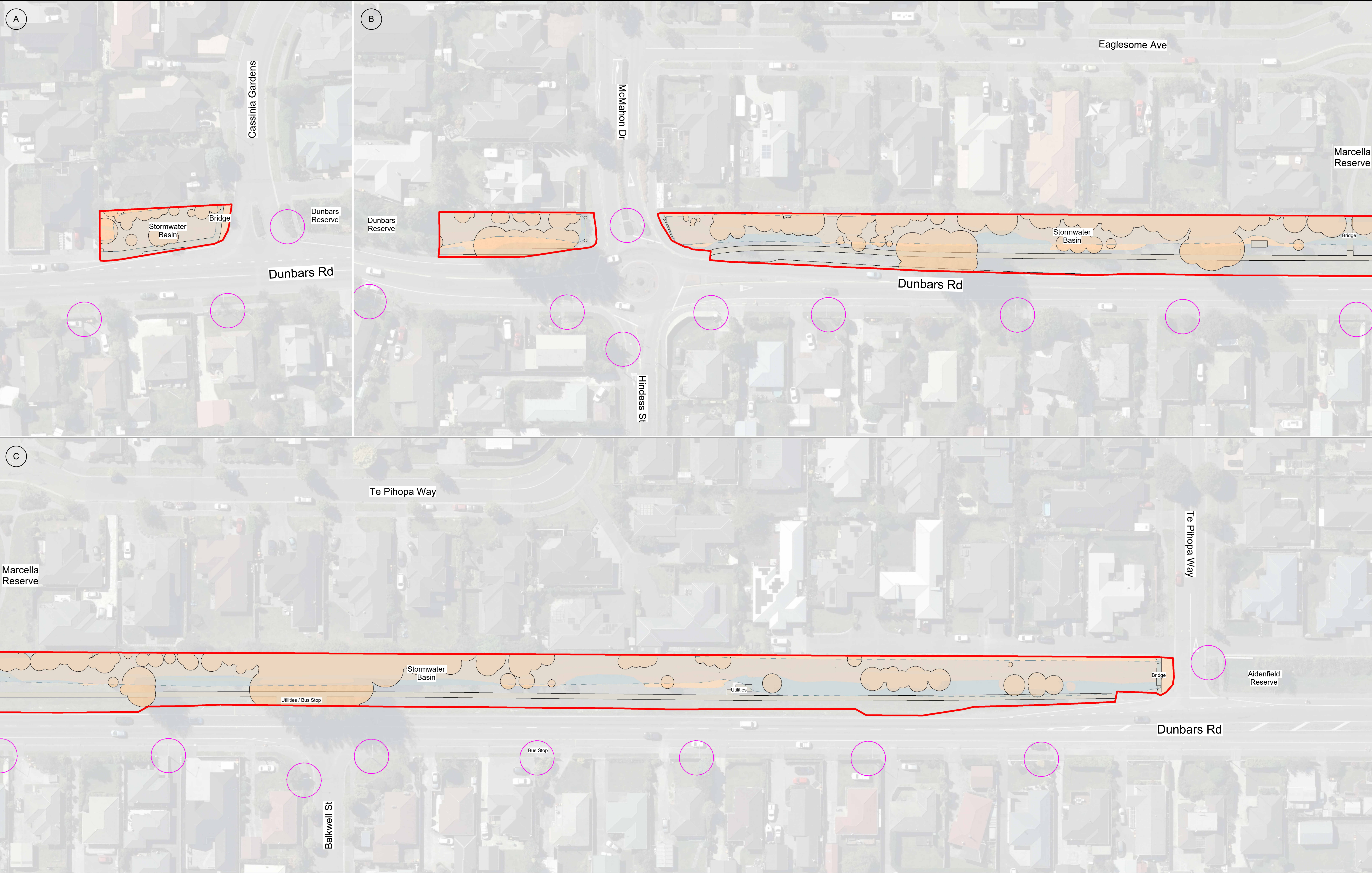
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BM240711\_200

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ORIGINAL IN COLOUR

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LEGEND

Existing Canopy Cover

Existing Lower Vegetation

Existing Attenuation Zone

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Vegetation cover mapped based on LINZ aerial photography dated September 2025, with site visit to verify existing conditions.

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Dunbars Landscape Reserve

Existing Site

Design

SYo

Scale

Date

Drawn

SYo

1:500 @ A1

12.12.2025

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HCO

1:1000 @ A3

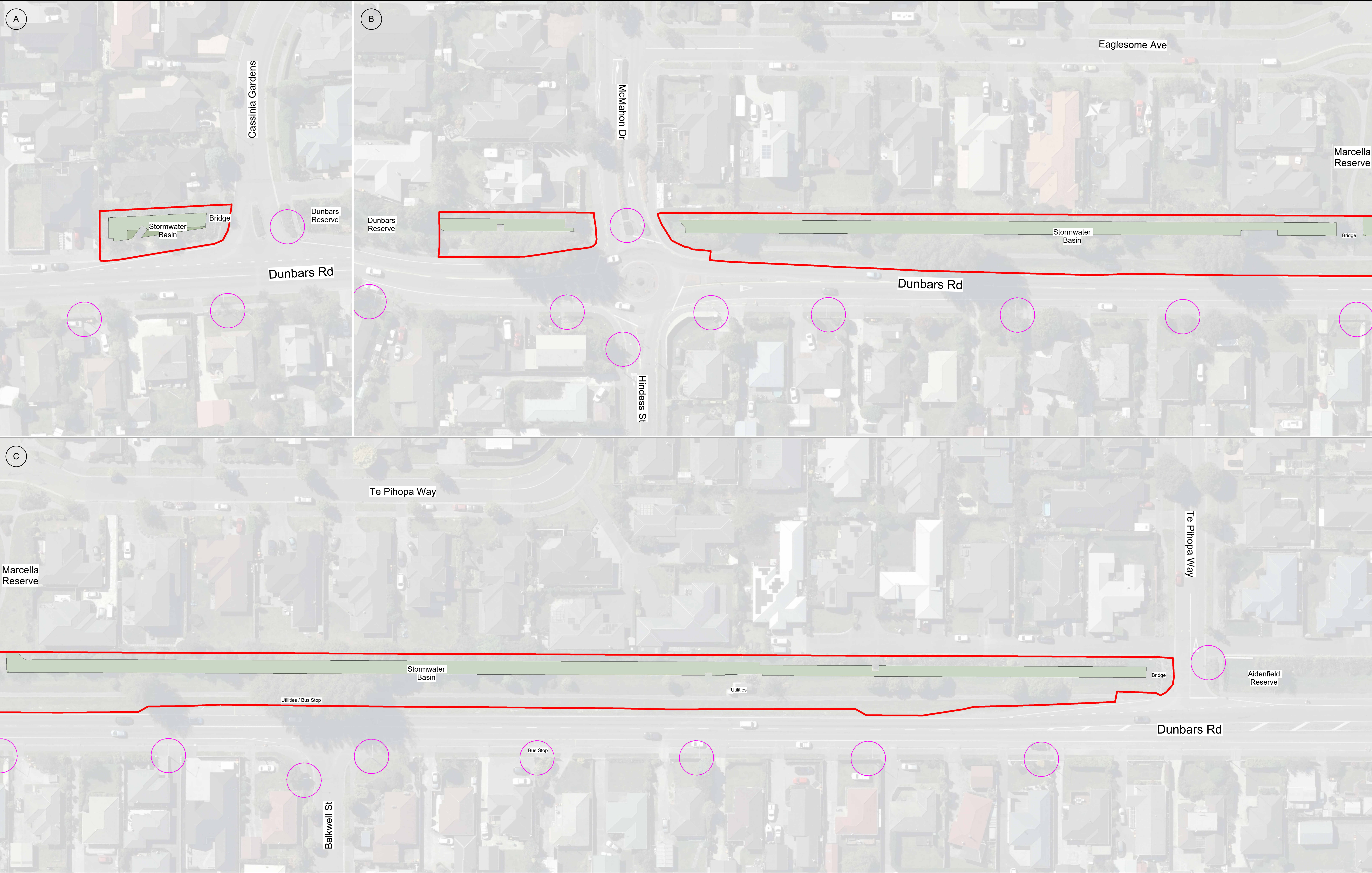
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ORIGINAL IN COLOUR

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LEGEND

20m+ Tree Height Area

10 - 20m Tree Height Area

5 - 10m Tree Height Area

The Tree Height Capacity model is derived from the following rules, supplied by CCC:

No tree shall intrude through the recession plane at maturity

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. of 1m offset for all other services and hard paving not mentioned above

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Tree Height Capacities

Design

SYo

Drawn

SYo

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Scale

1:500 @ A1

1:1000 @ A3

Date

12.12.2025

Concept Design

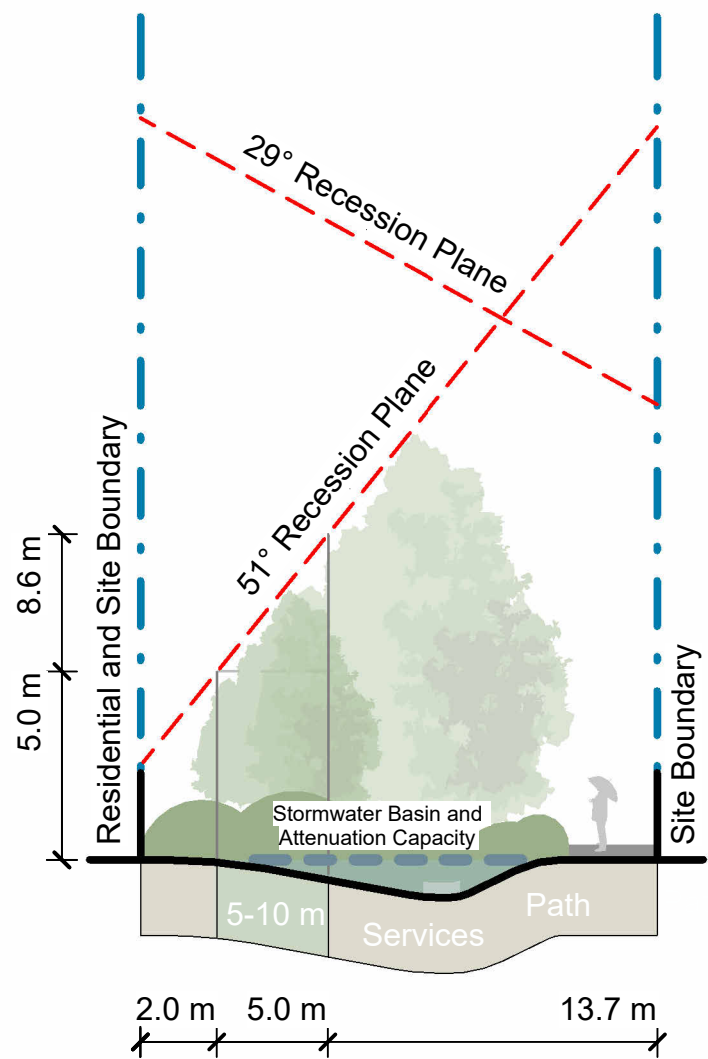
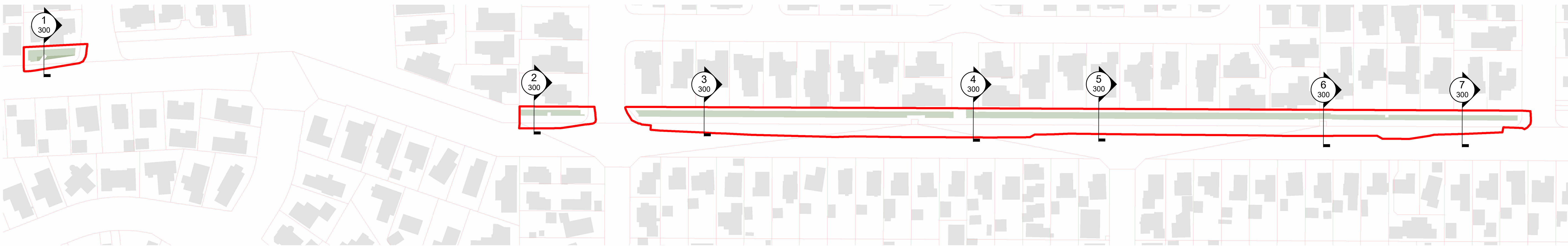
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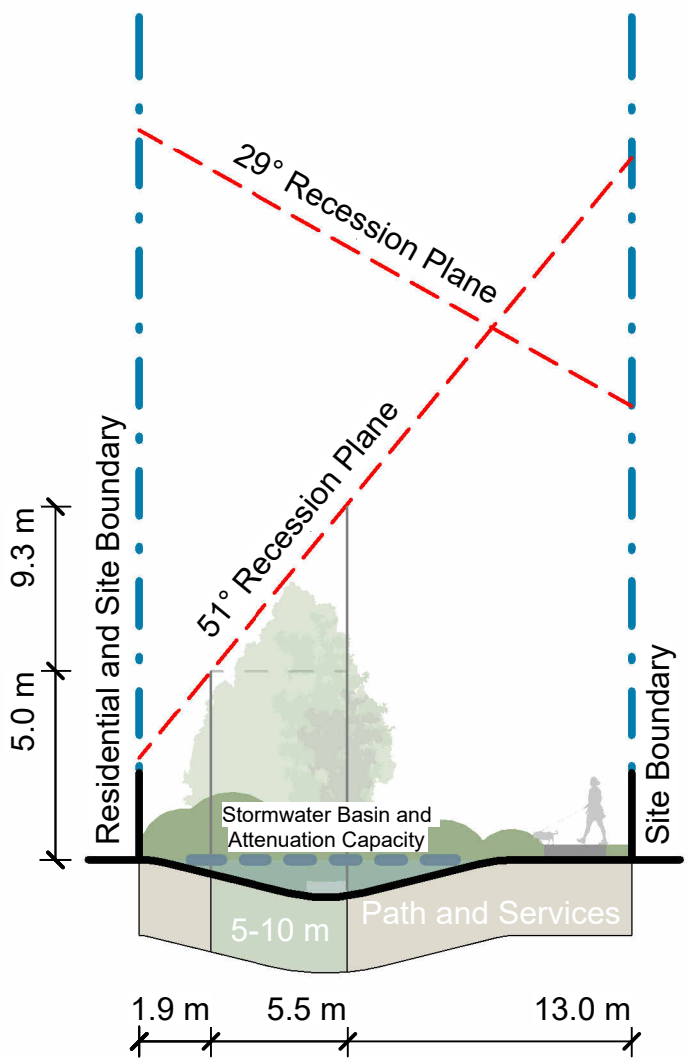
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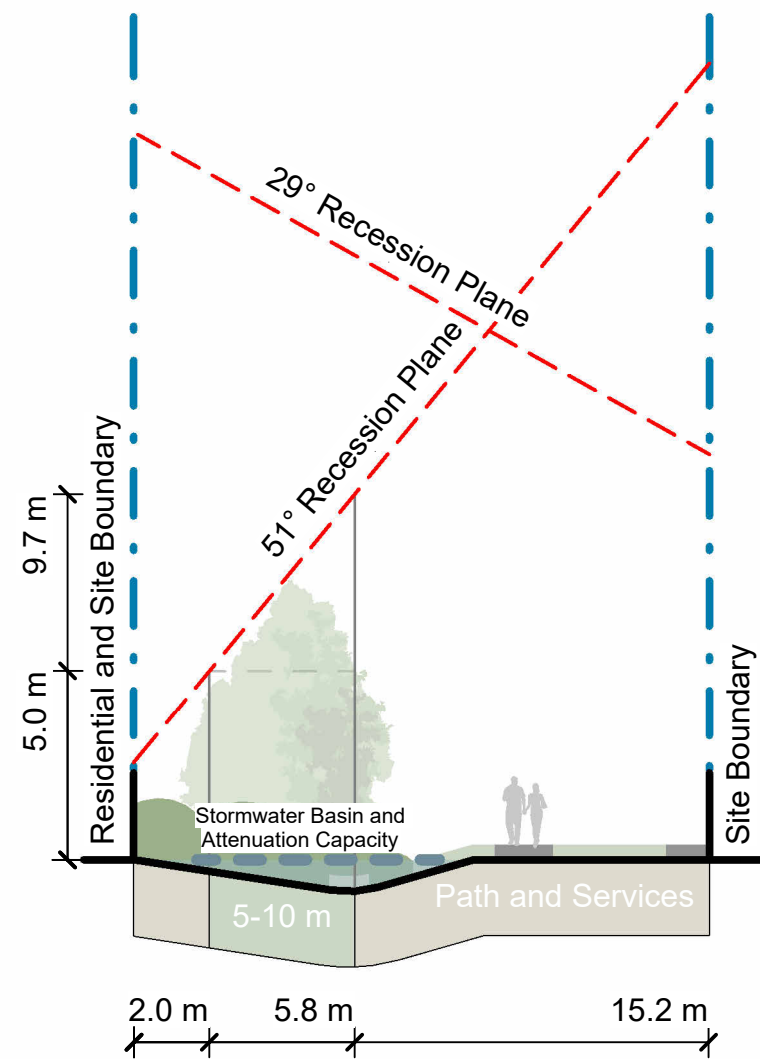
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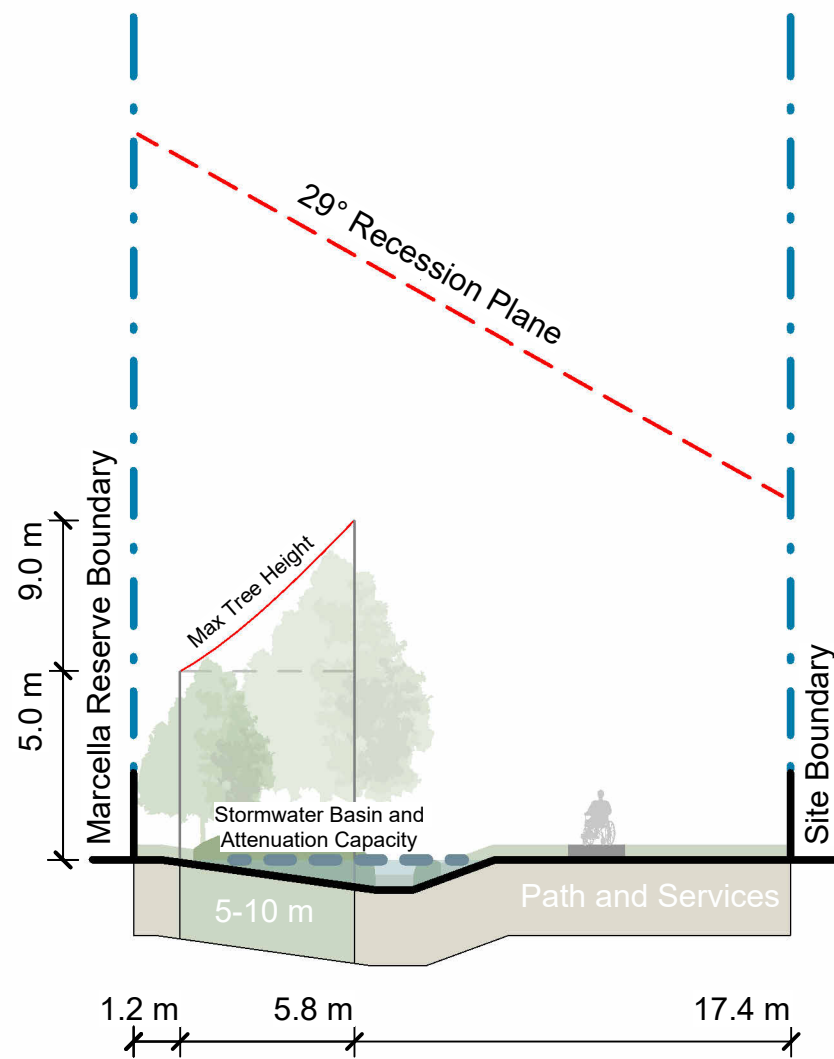
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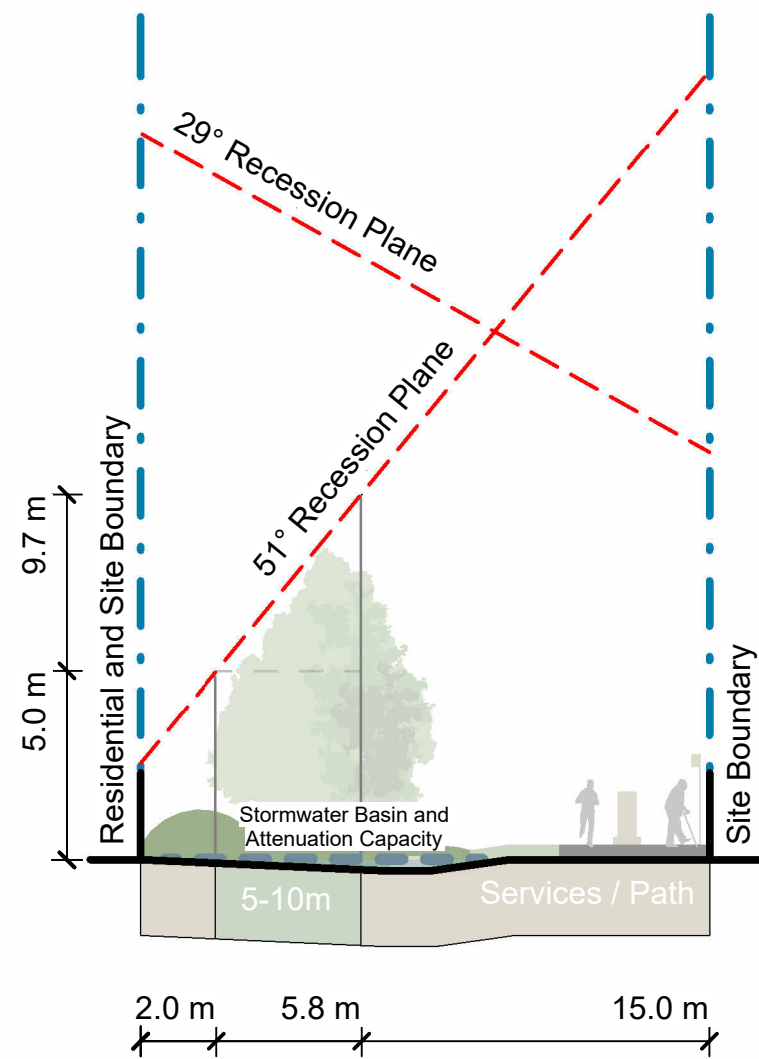
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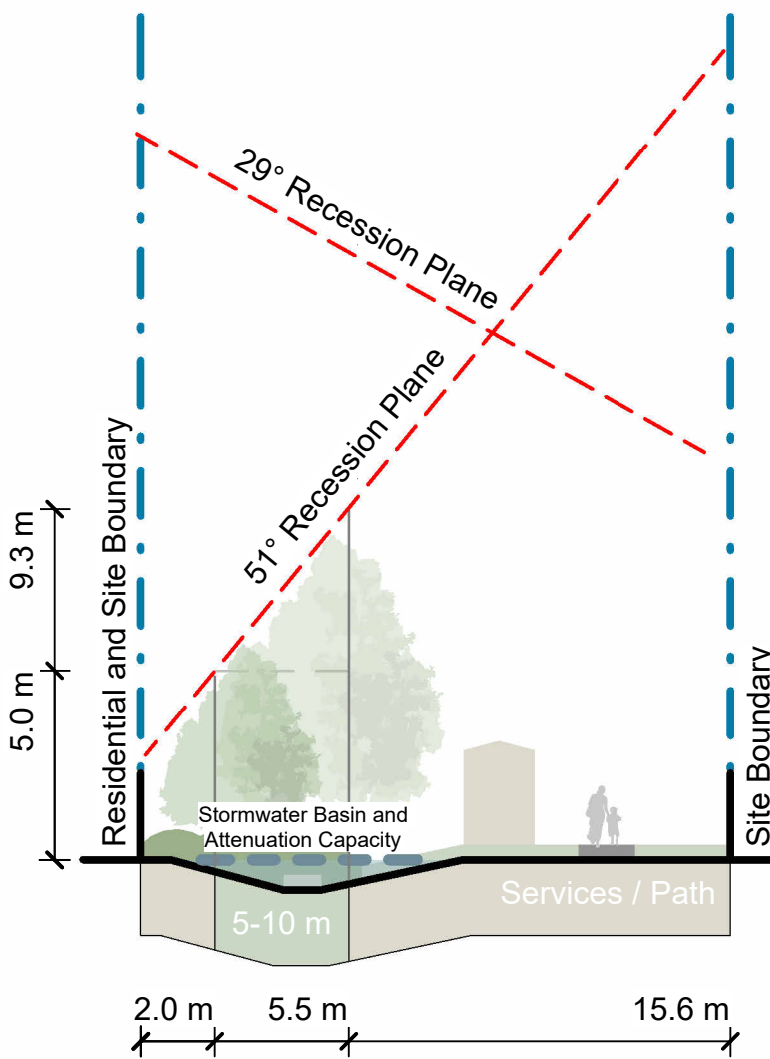
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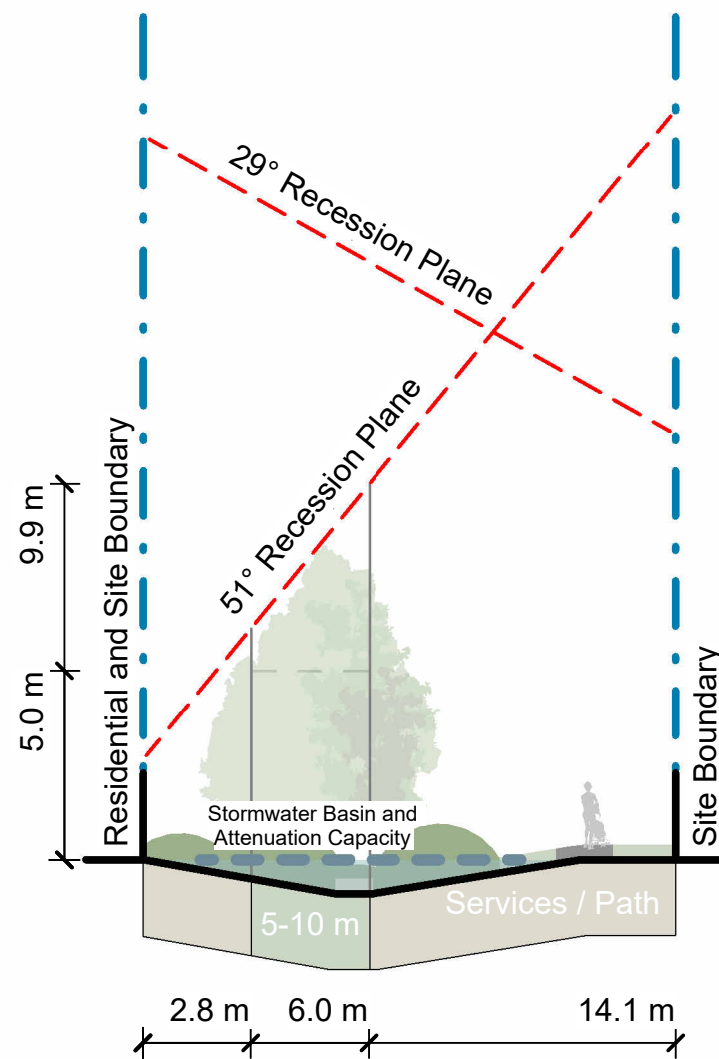
4 North - South Cross Section  
Scale: 1 : 200



5 North - South Cross Section  
Scale: 1 : 200



6 North - South Cross Section  
Scale: 1 : 200



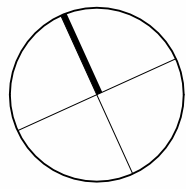
7 North - South Cross Section  
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ORIGINAL IN COLOUR



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Note:  
Sections identify maximum acceptable proposed tree height and density.  
Existing vegetation not shown.  
Refer Planting Plans for proposed tree locations.



| REV | DATE       | DESCRIPTION          |
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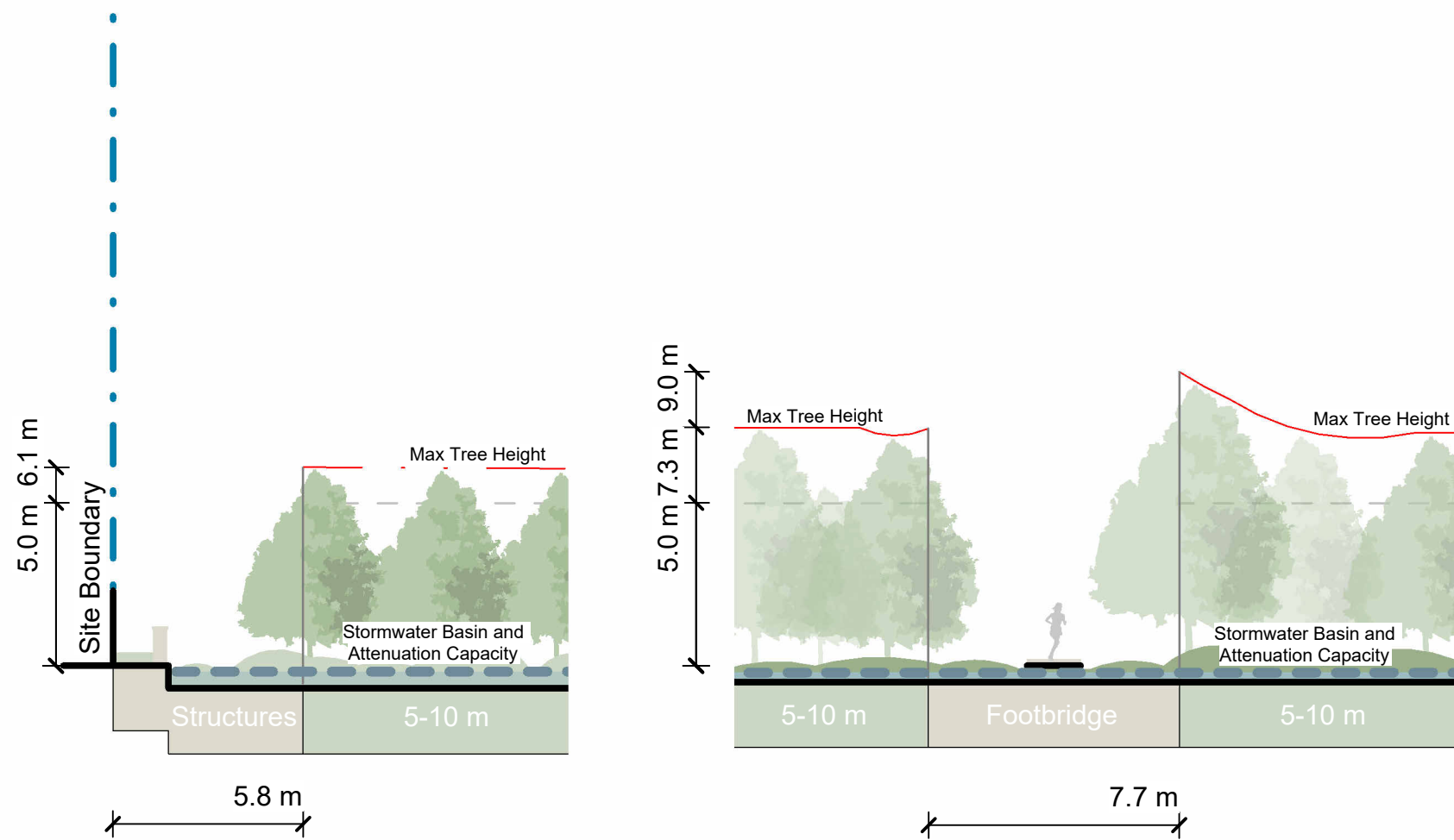
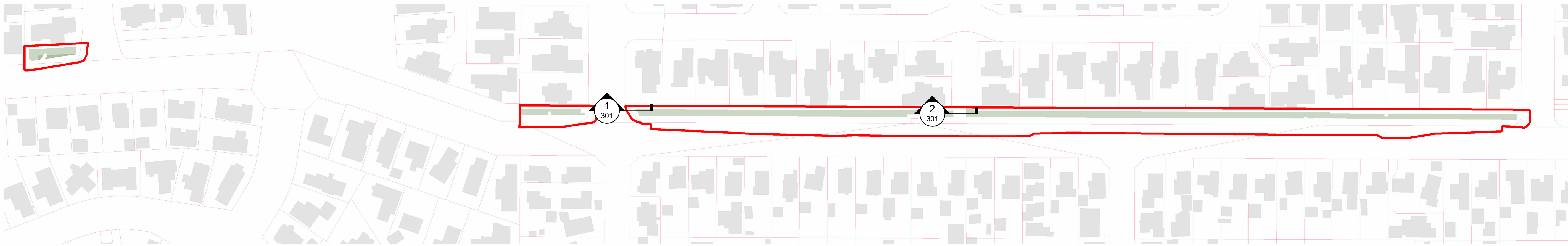
Cross Section Studies of Potential Tree  
Heights

| Design | SYo | Scale    | Date       |
|--------|-----|----------|------------|
| Drawn  | SYo | As Shown | 12.12.2025 |
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Concept Design

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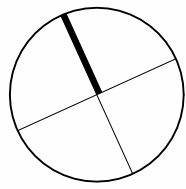
1 West - East Cross Section  
Scale: 1 : 200

2 West - East Cross Section  
Scale: 1 : 200

ORIGINAL IN COLOUR



**Note:**  
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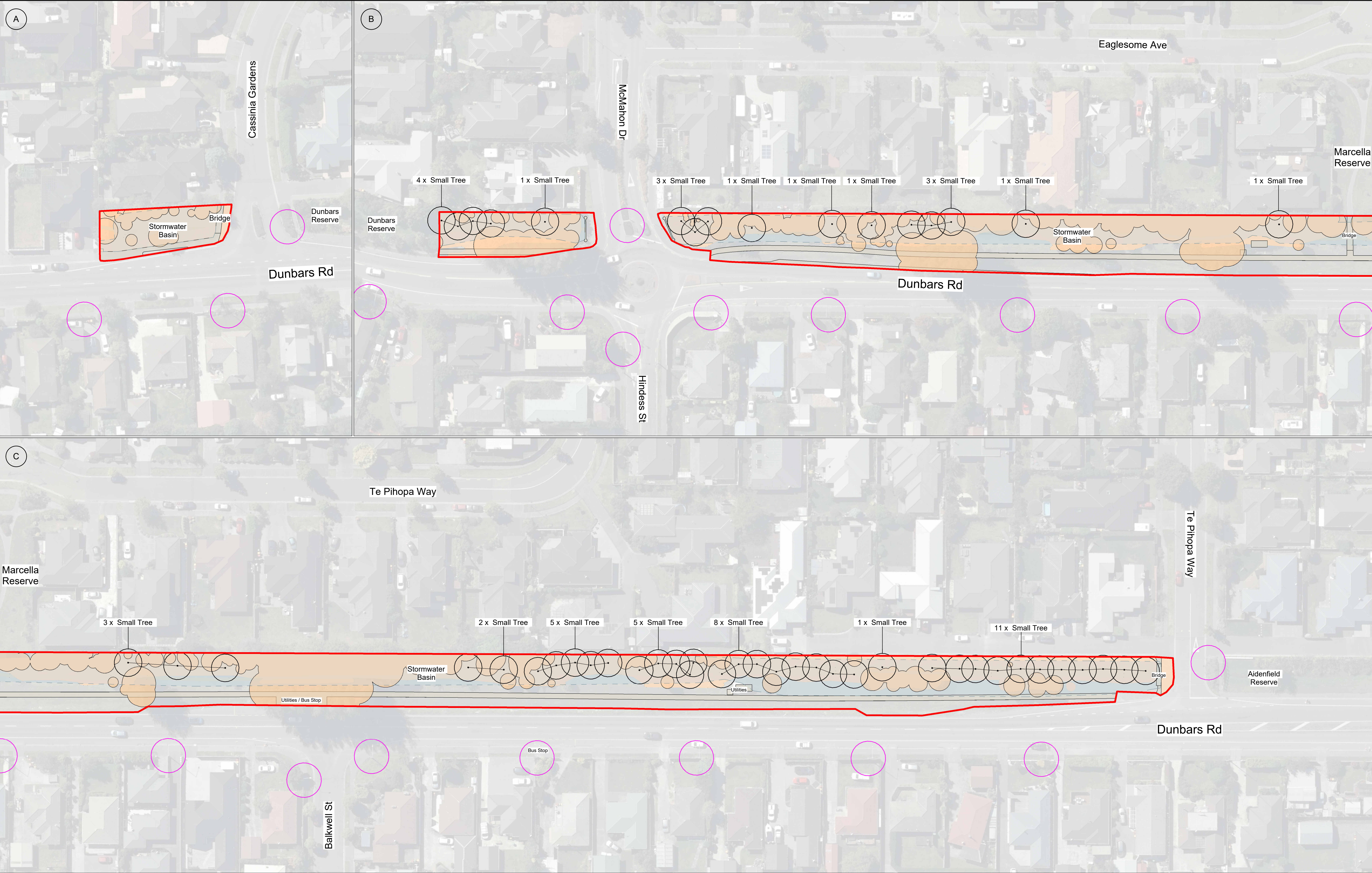
## Urban Forest Tree Planting Dunbars Landscape Reserve

Cross Section Studies of Potential Tree  
Heights

| Design | SYo | Scale    | Date       |
|--------|-----|----------|------------|
| Drawn  | SYo | As Shown | 12.12.2025 |
| Check  | HCO |          |            |

Concept Design

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| BM240711_301 | A        |



ORIGINAL IN COLOUR

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|                              |   |                             |              |                                  |
|------------------------------|---|-----------------------------|--------------|----------------------------------|
| Existing Canopy Cover        | - | 3415.23 m <sup>2</sup>      | 36.2%        | Canopy coverage to existing site |
| Proposed Canopy Coverage     | - | 2563.54 m <sup>2</sup>      | 27.2%        | Proposed canopy coverage         |
| <b>Total Canopy Coverage</b> | - | <b>5978.77m<sup>2</sup></b> | <b>63.4%</b> | <b>Total canopy coverage</b>     |

| PLANTING SCHEDULE |                |                   |
|-------------------|----------------|-------------------|
| Qty               | Type           | Tree Height       |
| 51                | Small Tree     | Tree Height 5-10m |
| 199               | Existing Trees |                   |

0m

5m

10m

20m

|     |            |                      |
|-----|------------|----------------------|
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Dunbars Landscape Reserve

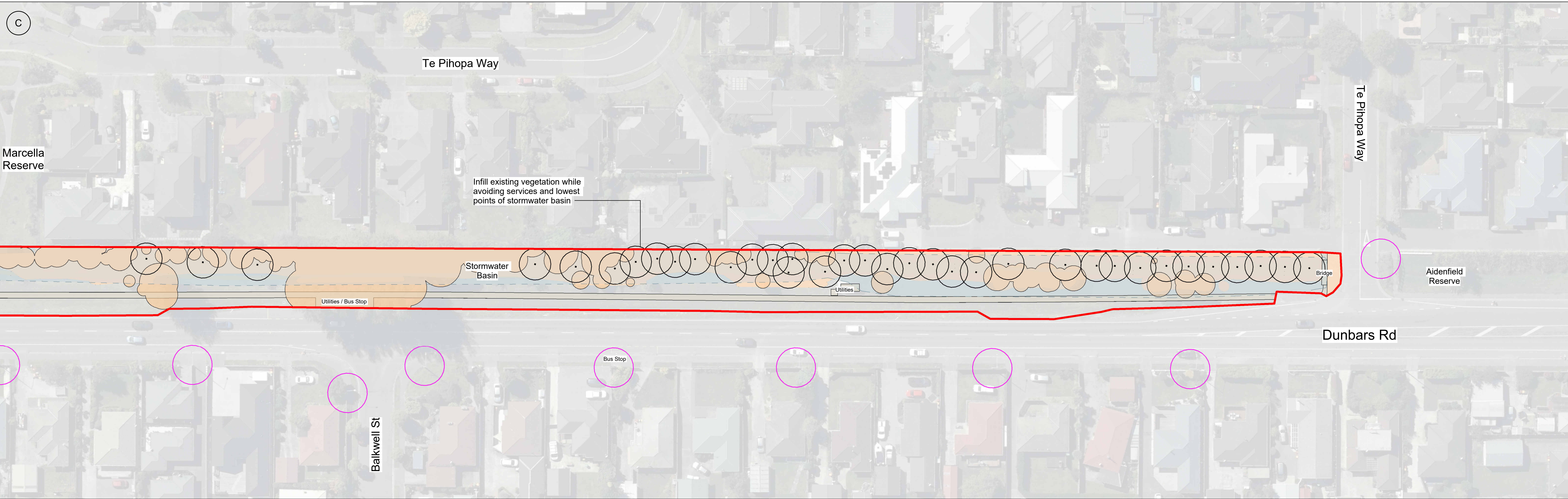
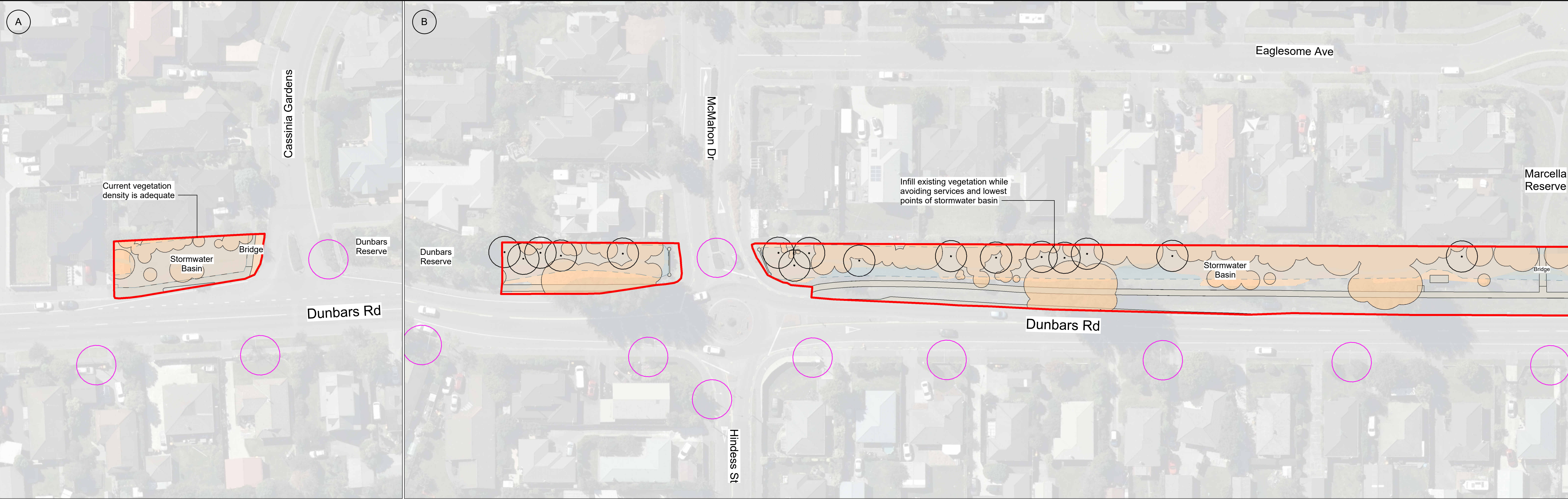
Planting Plan

|        |     |             |            |
|--------|-----|-------------|------------|
| Design | SYo | Scale       | Date       |
| Drawn  | SYo | 1:500 @ A1  | 12.12.2025 |
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ORIGINAL IN COLOUR

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|                              |   |                             |              |                                  |
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0m5m10m20m

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Dunbars Landscape Reserve

Planting Plan

|        |     |             |            |
|--------|-----|-------------|------------|
| Design | SYo | Scale       | Date       |
| Drawn  | SYo | 1:500 @ A1  | 12.12.2025 |
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Concept Design

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