



Urban Forest Tree Planting Washington Way Reserve

PROJECT NUMBER: **BM230857** Concept Design

PROJECT ADDRESS: 255 Waltham Road,
Sydenham,
Christchurch 8023

CLIENT: Christchurch City Council

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

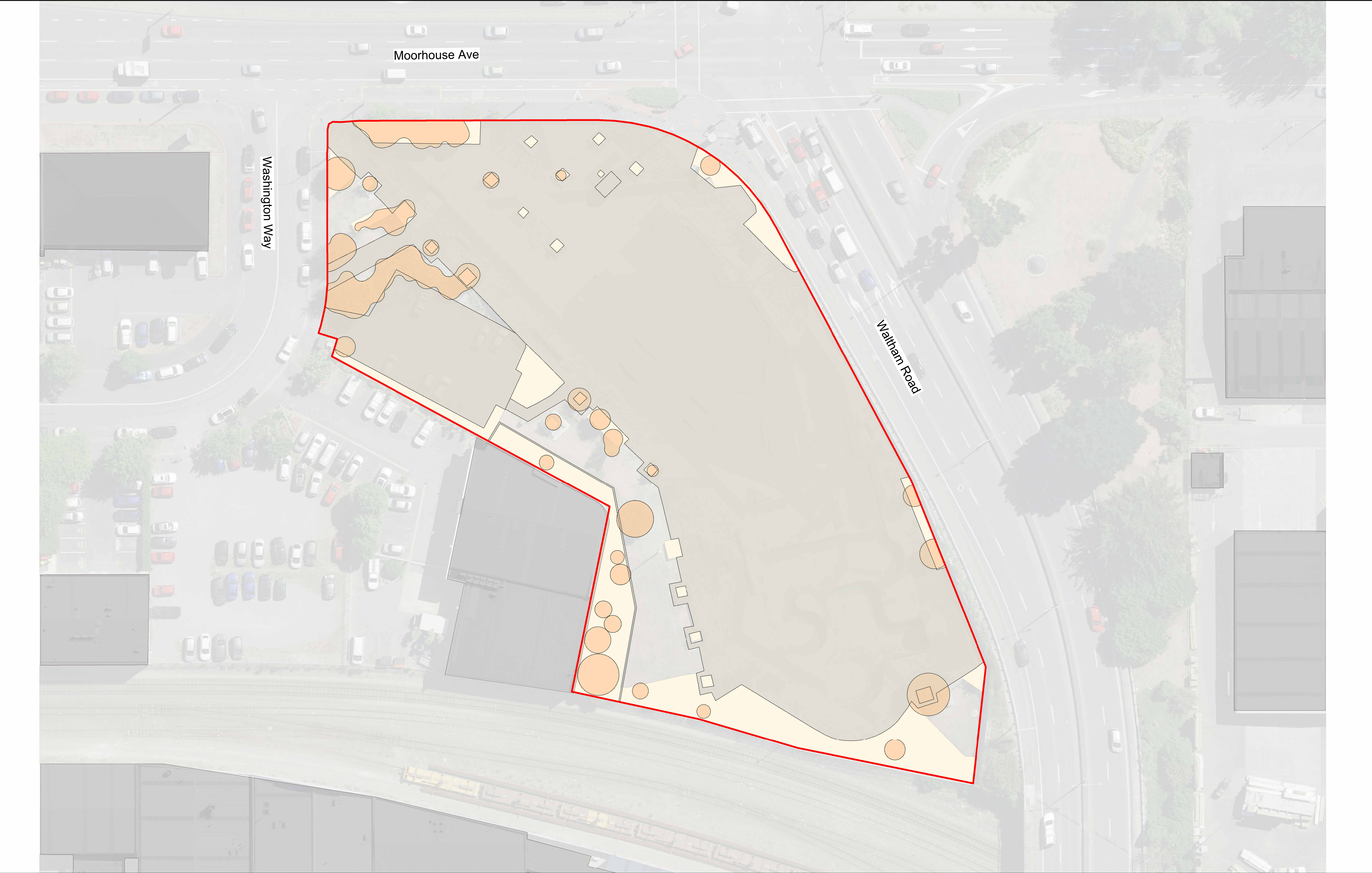


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REV	DATE	DESCRIPTION
A	05.03.24	Concept Design

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LEGEND

Existing Canopy Cover

Existing Lower Vegetation

Existing Pathways and Features

Vegetation cover mapped based on CCC aerial photography dated 17 November 2023, with site visit to verify existing conditions.

Existing Specimen Trees - 40

Existing Canopy Cover - 590.86 m²

7.7%

Canopy coverage to existing site

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DESCRIPTION

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APR

HCo

Urban Forest Tree Planting

Washington Way Reserve

Existing Site

Design HCo

Drawn ARo

Check GRO

Scale

1:300 @ A1

1:600 @ A3

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CONCEPT DESIGN

DRAWING NO.

BM230857_200

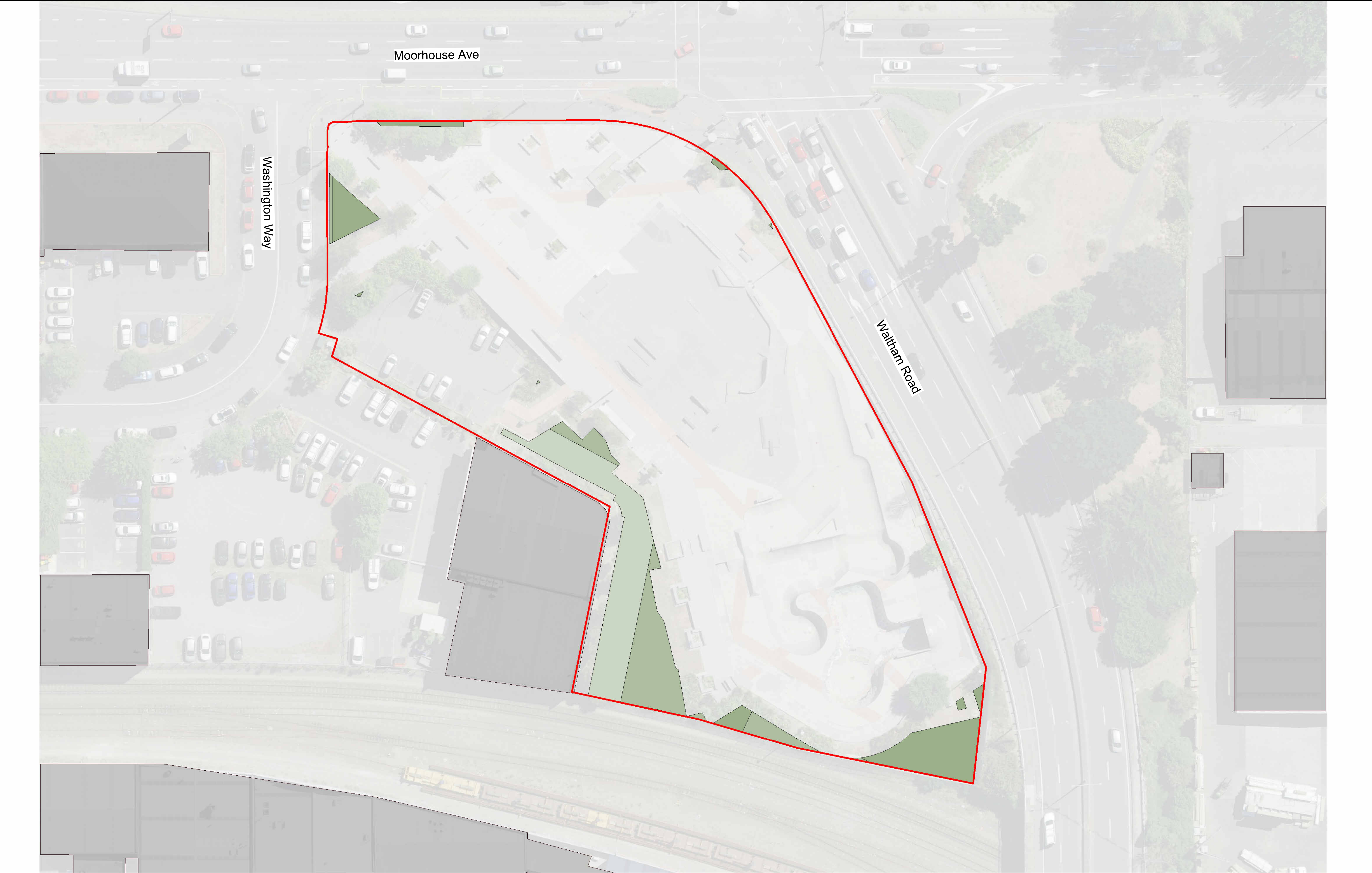
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0m 3m 6m 12m

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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

0m

3m

6m

12m

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Tree Height Capacities

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Check GRo

Scale

1:300 @ A1

1:600 @ A3

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Concept Design

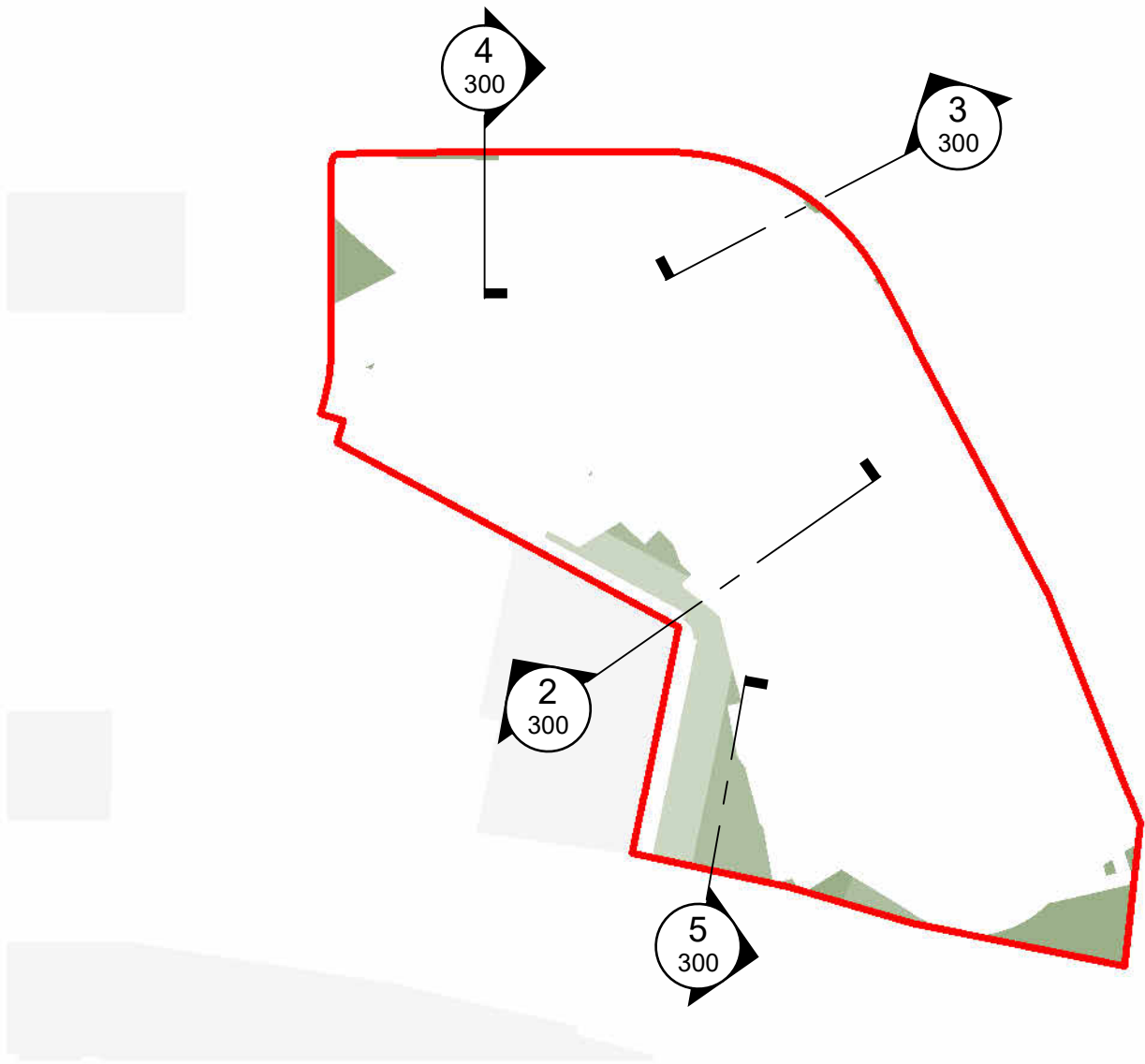
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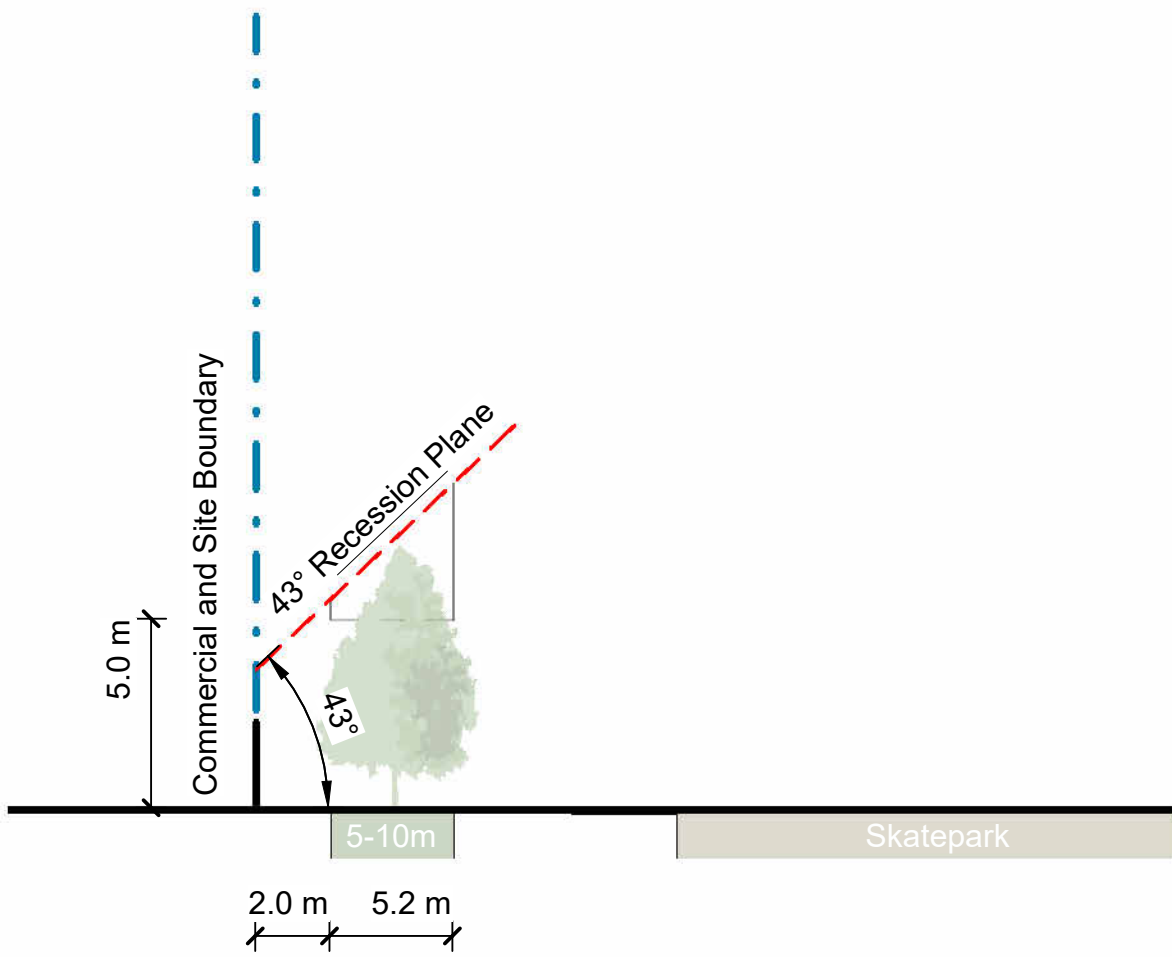
REVISION

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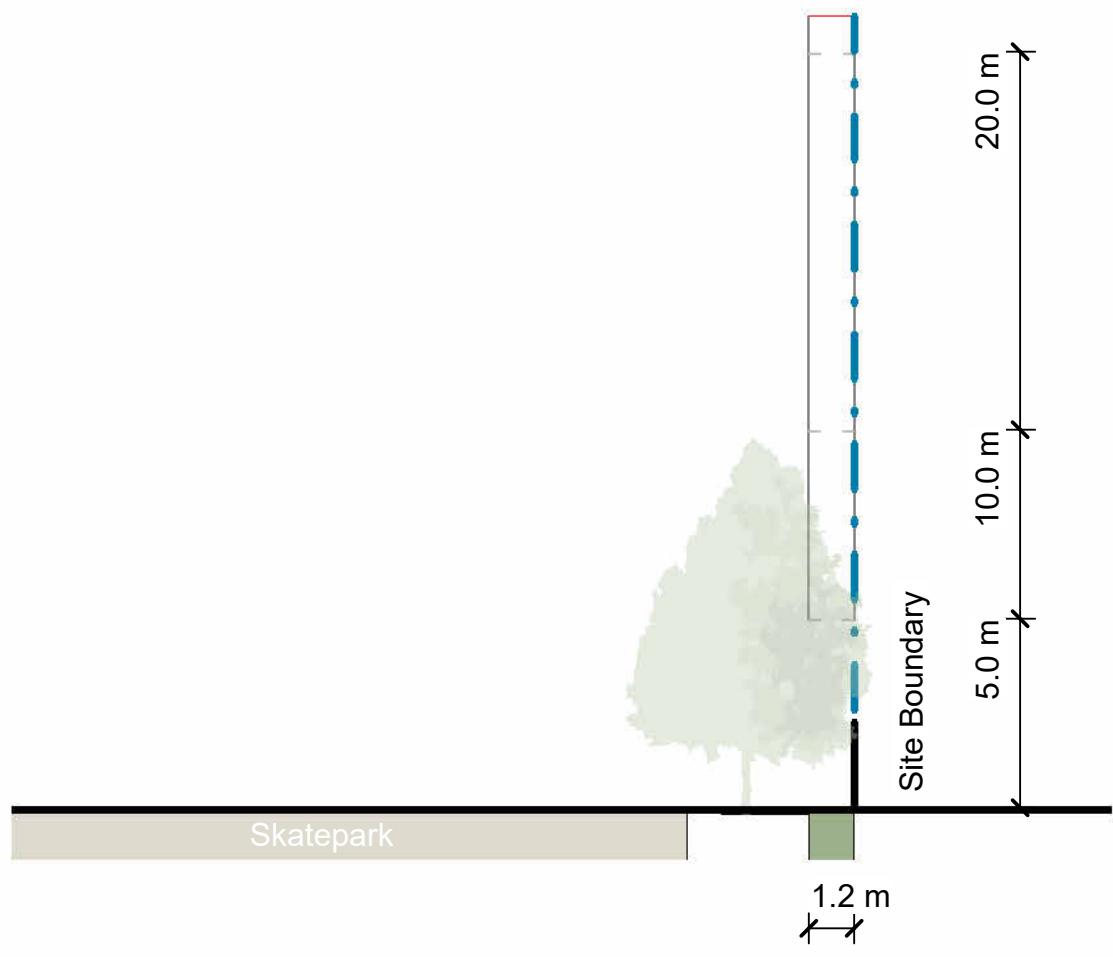
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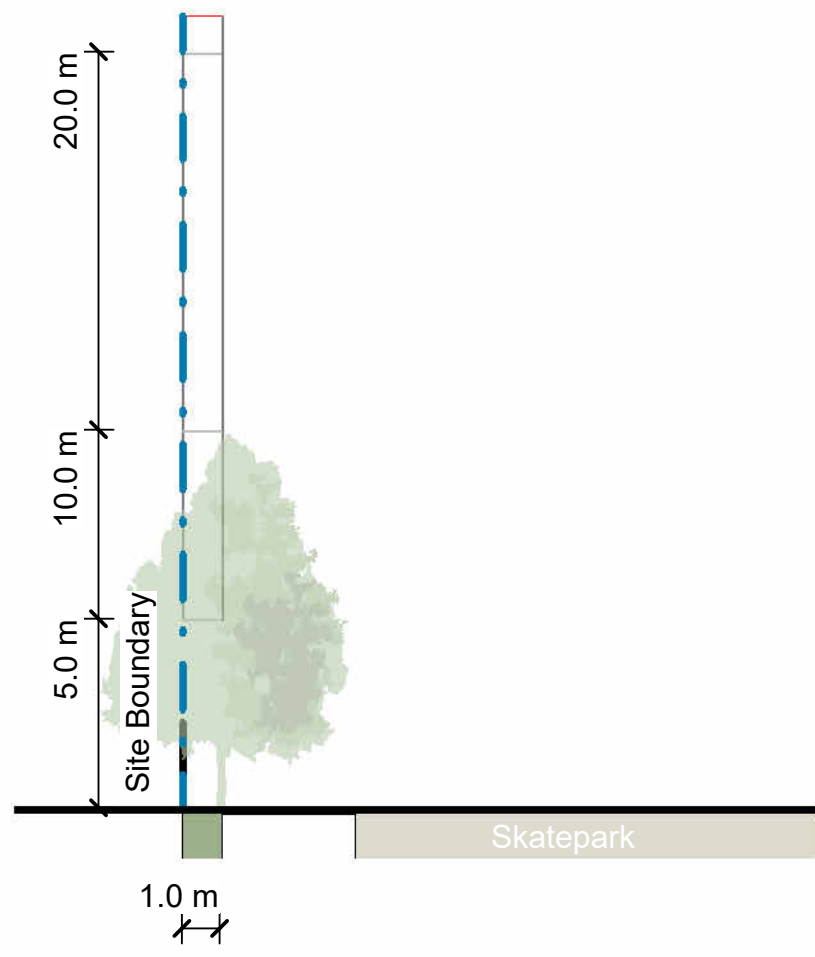
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Scale: 1 : 1000



2 Section 1
Scale: 1 : 200



3 Section 2
Scale: 1 : 200

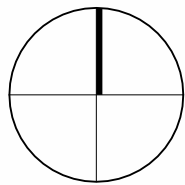


4 Section 3
Scale: 1 : 200



5 Section 4
Scale: 1 : 200

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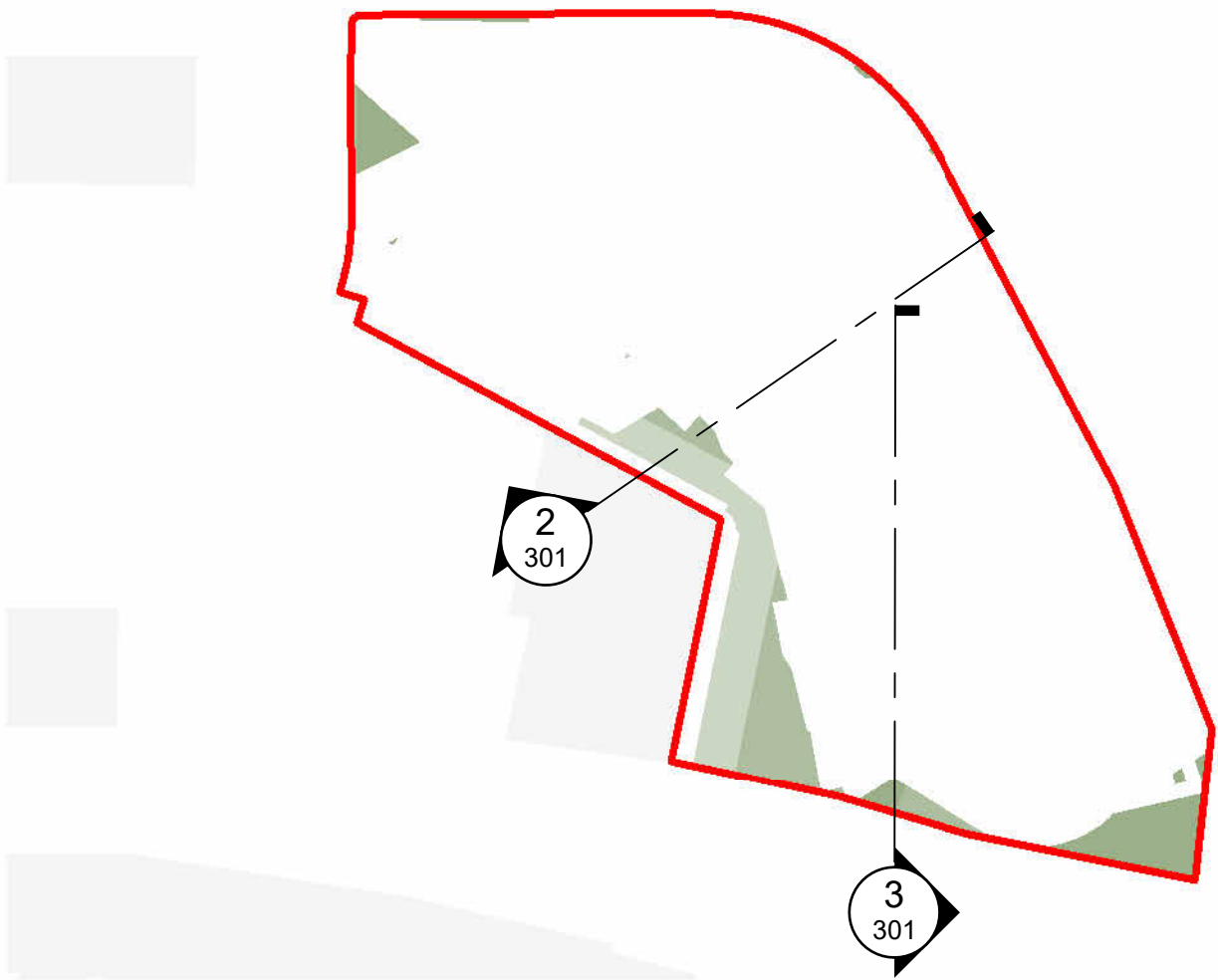
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Cross Section Studies of Potential Tree
Heights

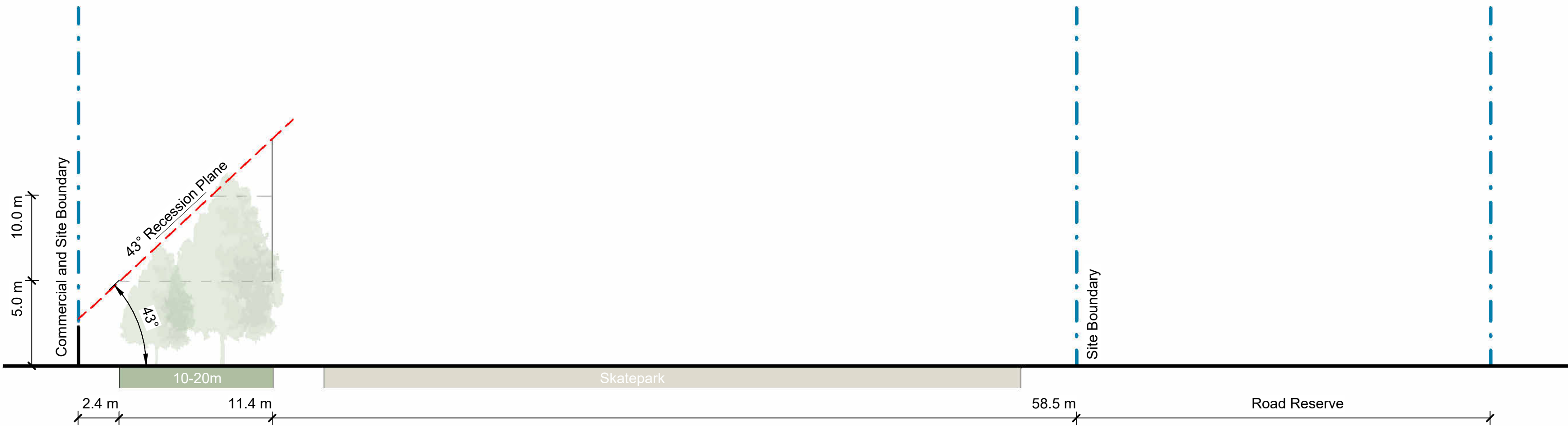
Design	HCo	Scale	Date
Drawn	ARo	As Shown	05.03.2024
Check	GRo		

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BM230857_300	A



1 Sections - Cross Section Plan
Scale: 1 : 1000

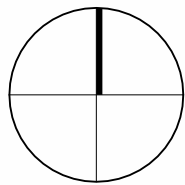


2 Cross Section 1
301 Scale: 1 : 200



3 Cross Section 2
301 Scale: 1 : 200

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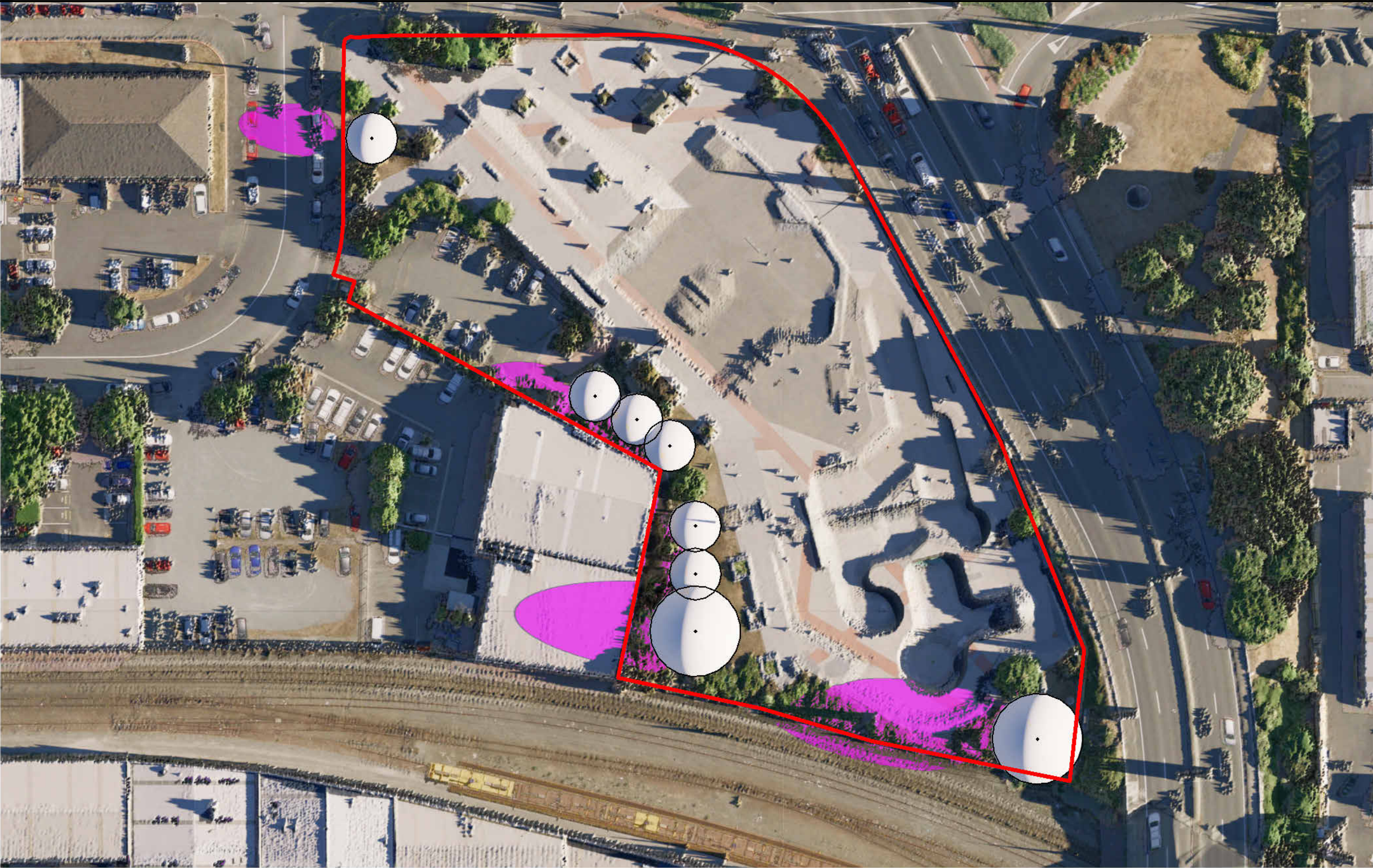
Urban Forest Tree Planting Washington Way Reserve

Cross Section Studies of Potential Tree
Heights

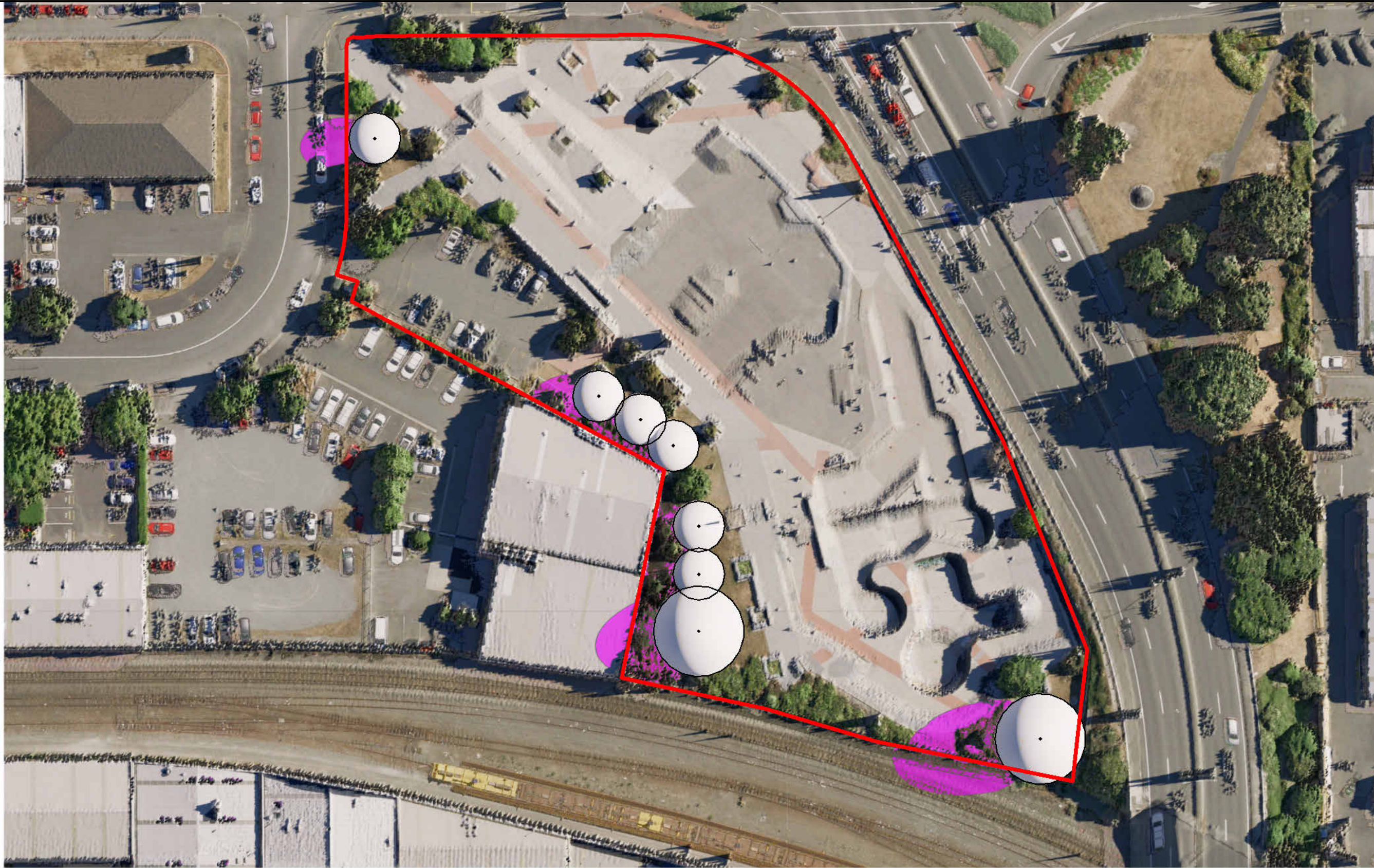
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Drawn	ARo	As Shown	05.03.2024
Check	GRo		

Concept Design

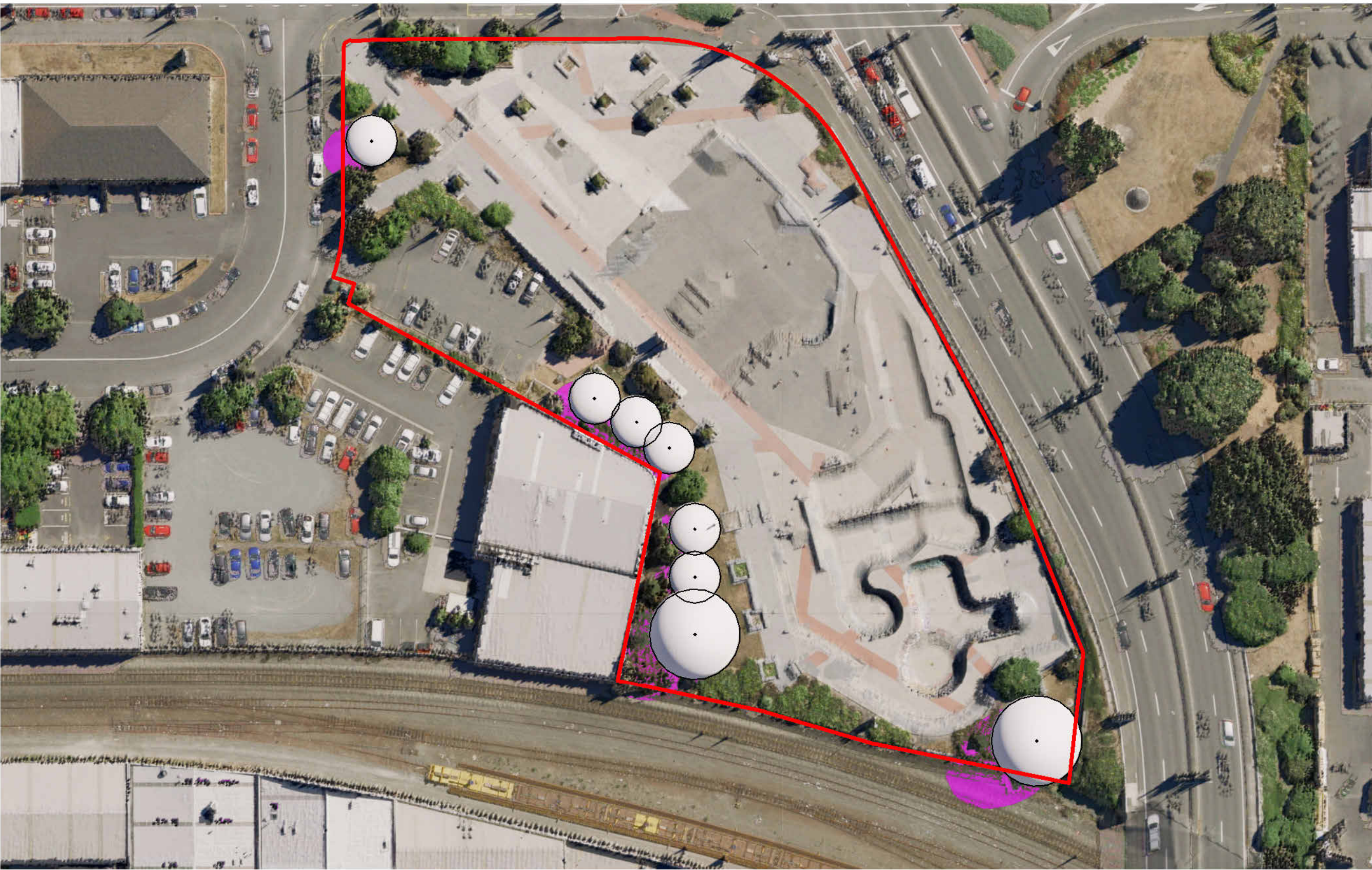
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BM230857_301	A



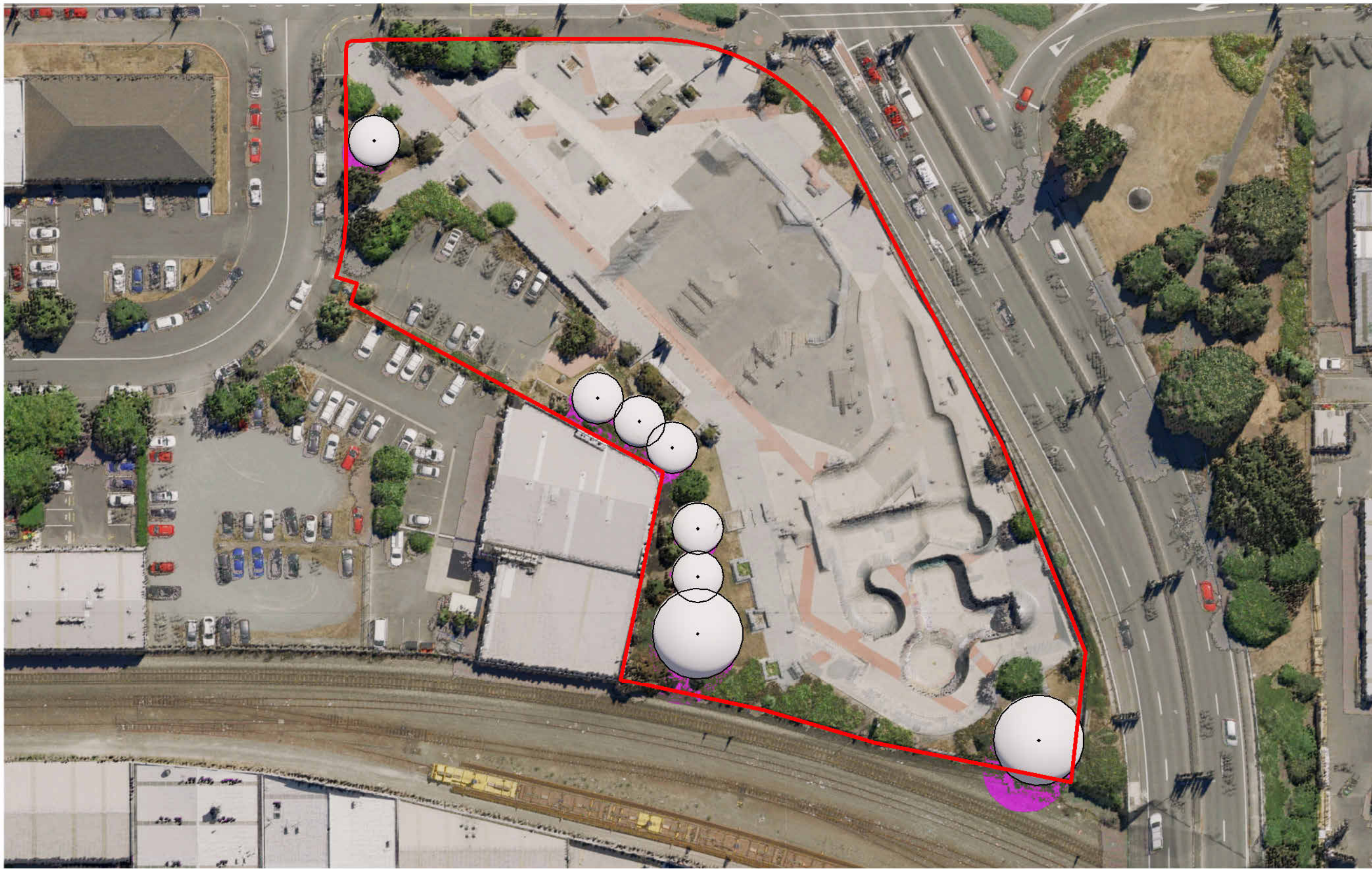
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Scale: 1 : 600



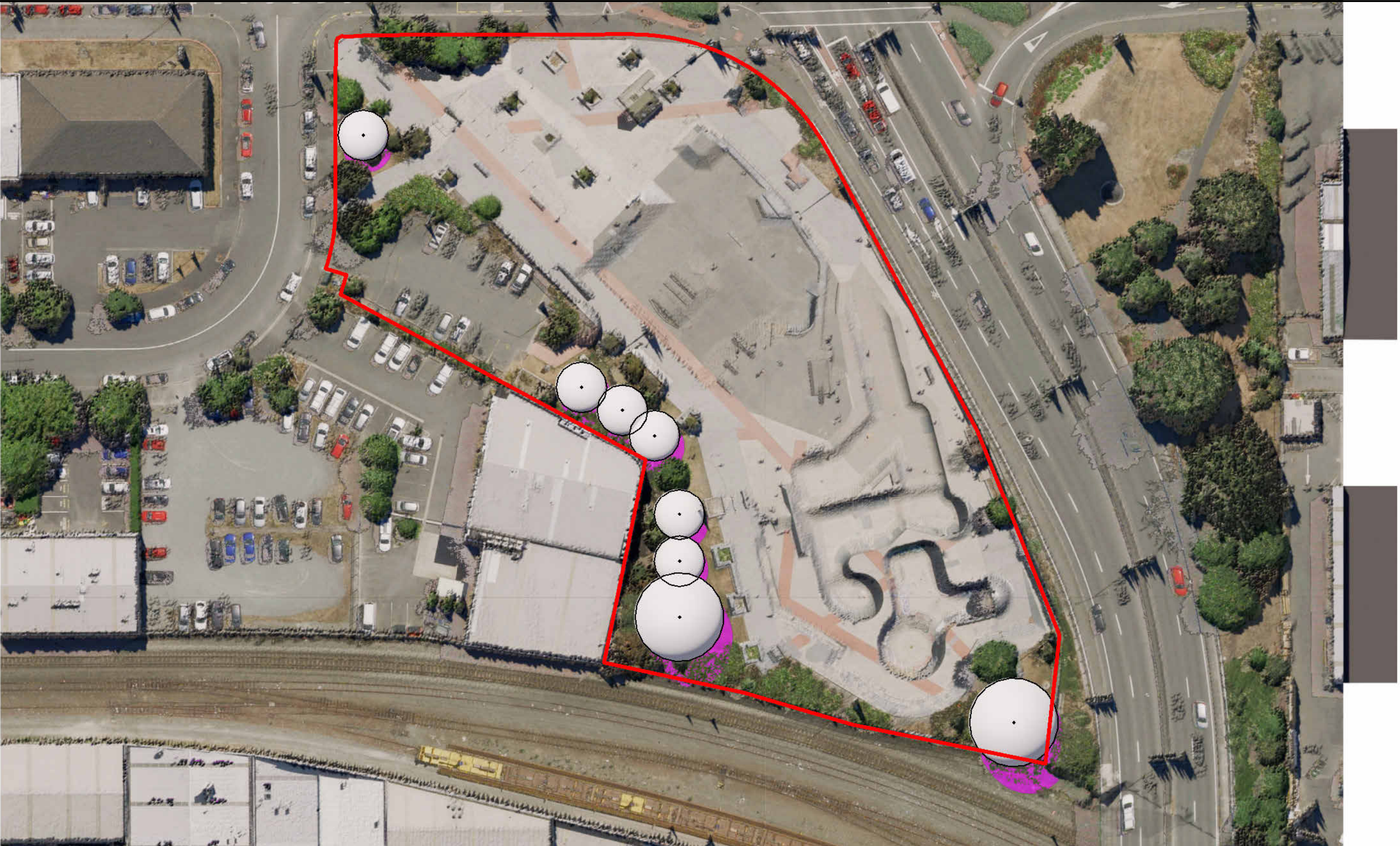
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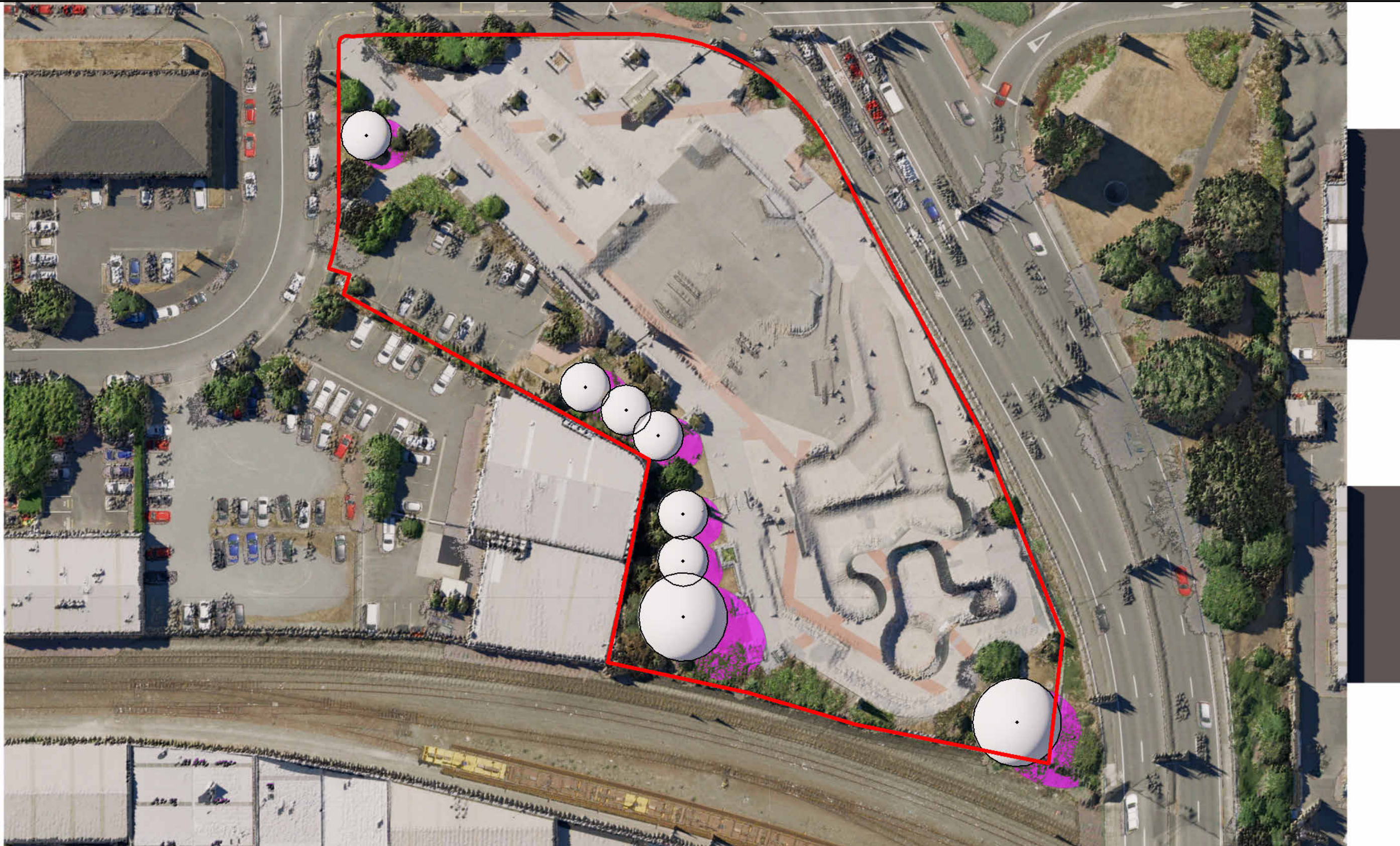
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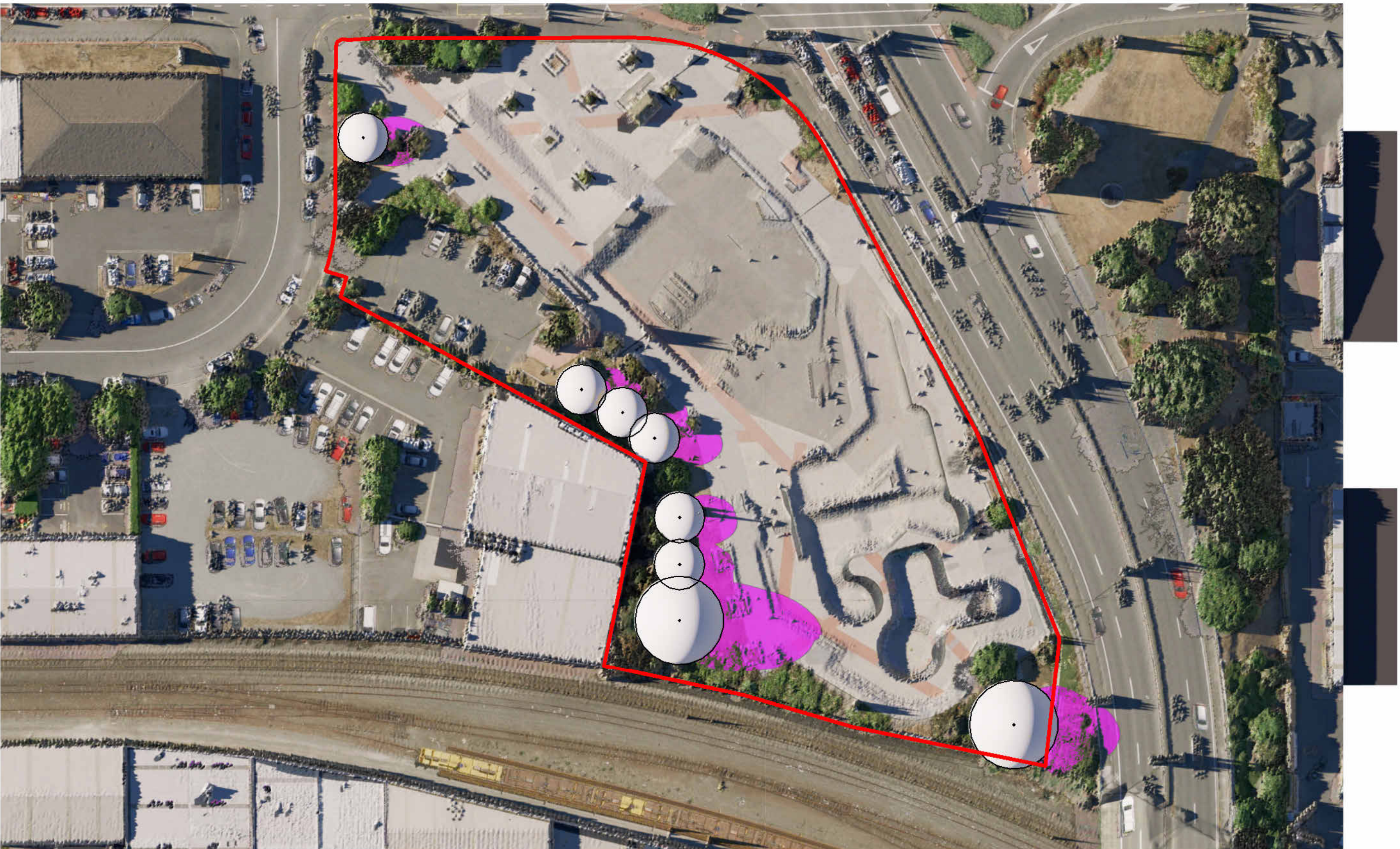
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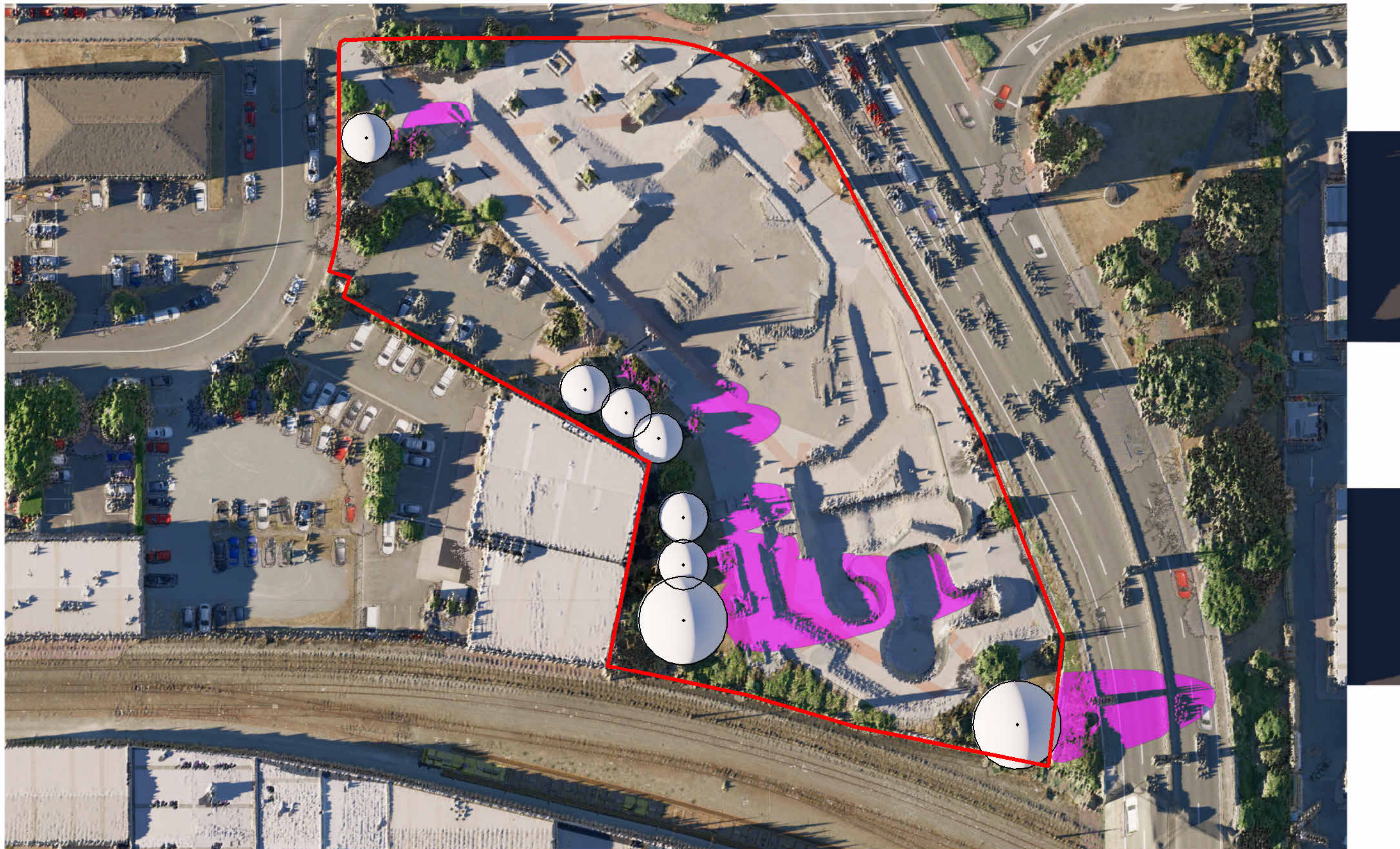
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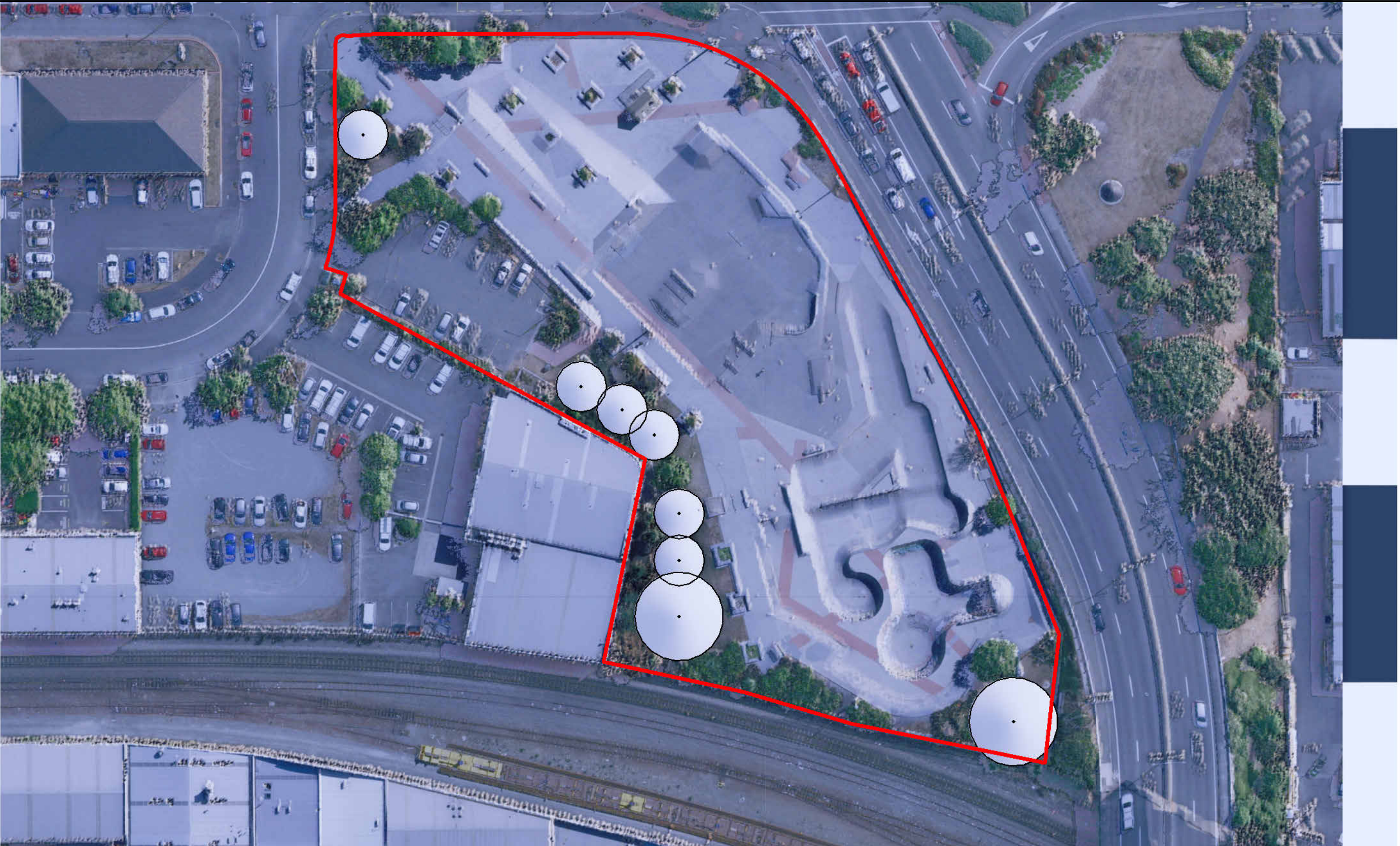
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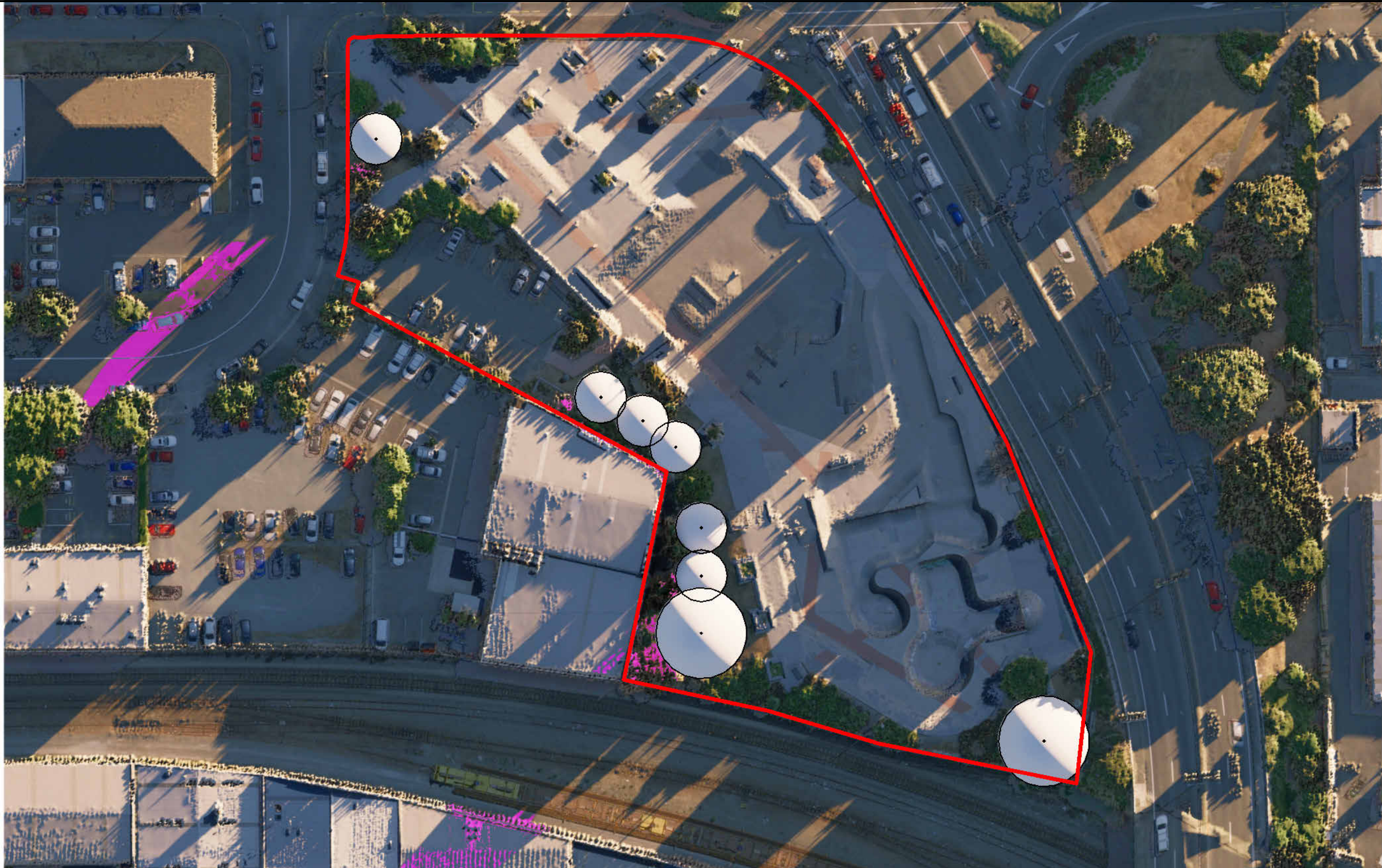
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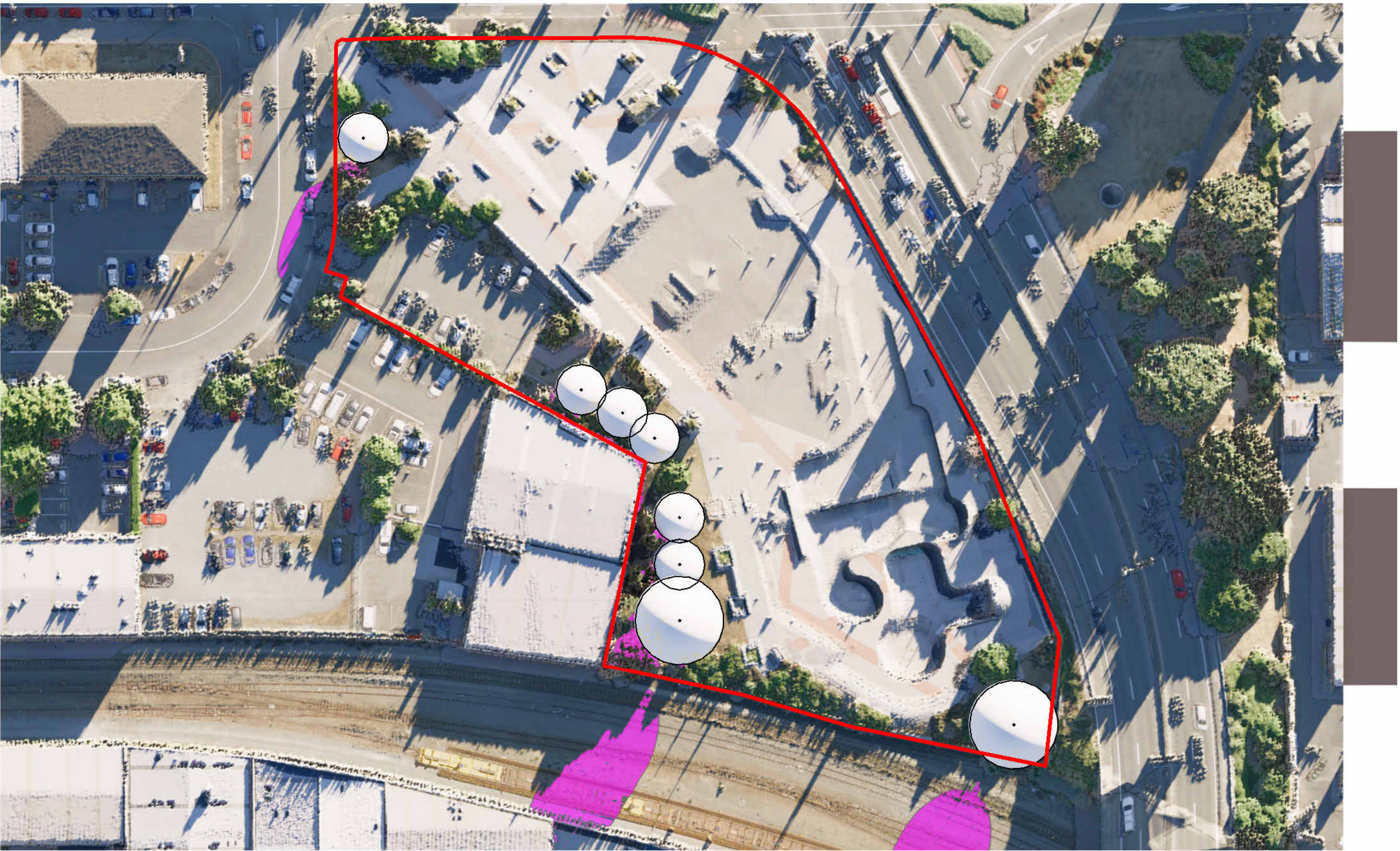
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1 Winter - 7:30am
Scale: 1 : 600



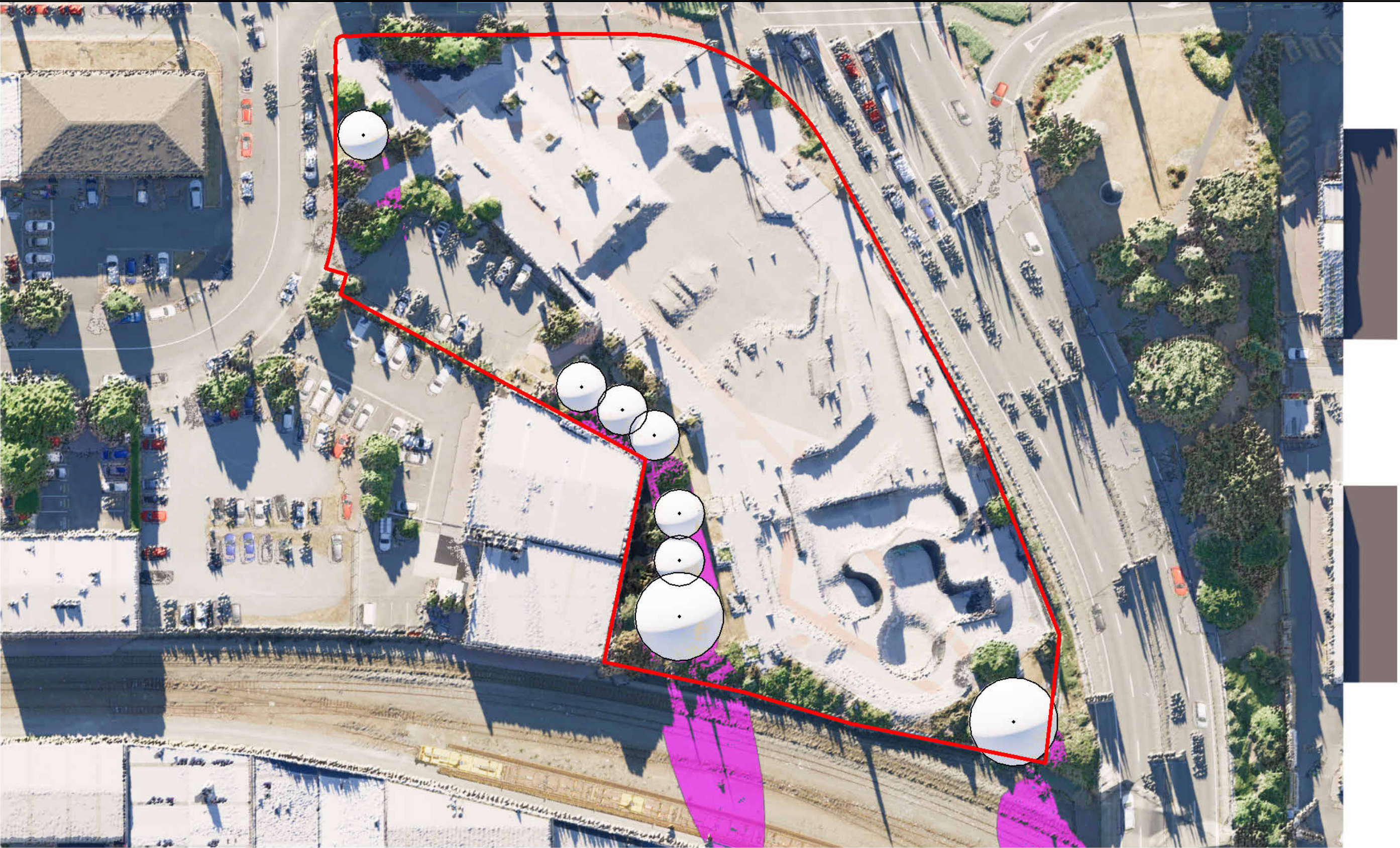
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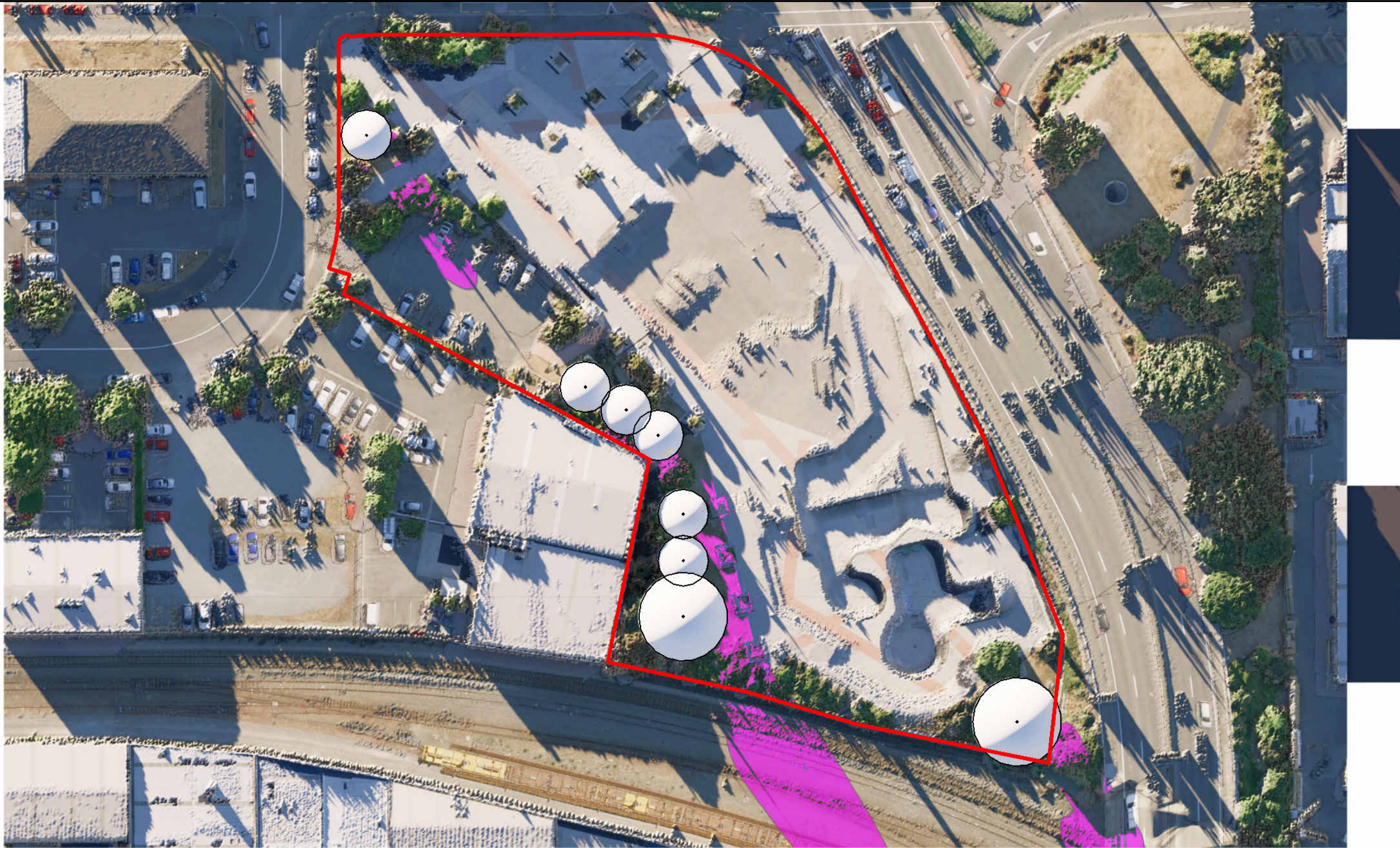
3 Winter - 10:30am
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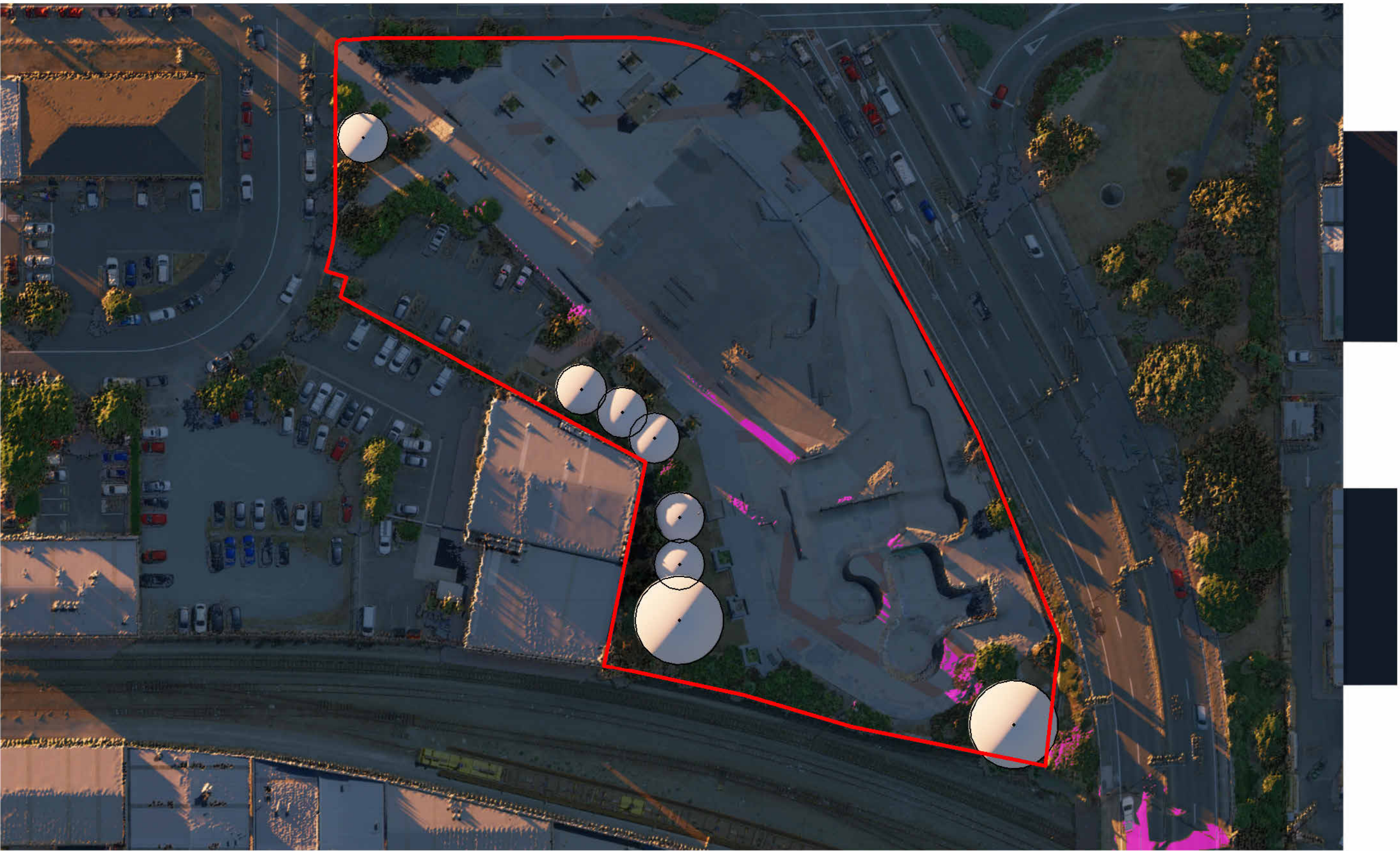
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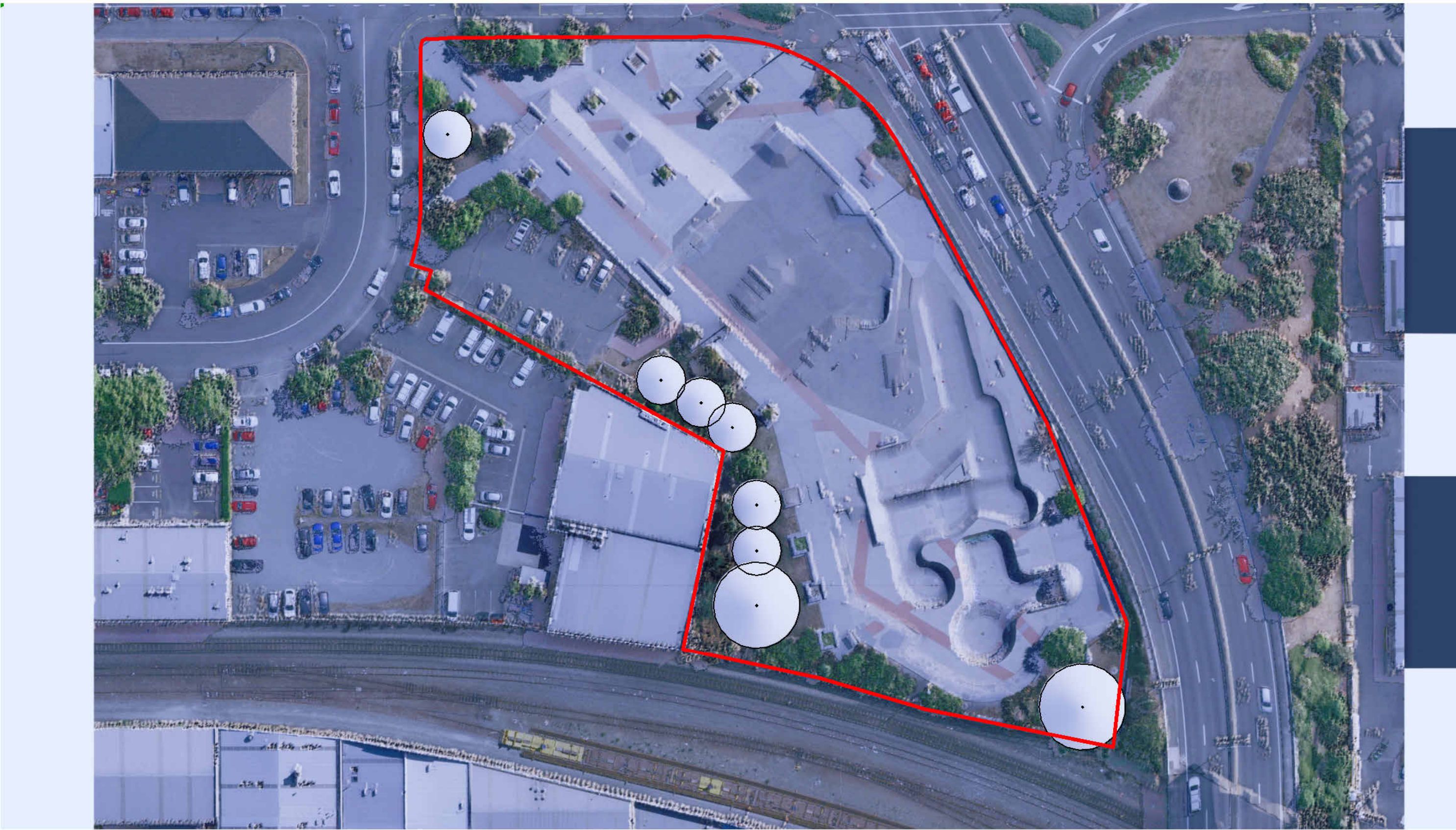
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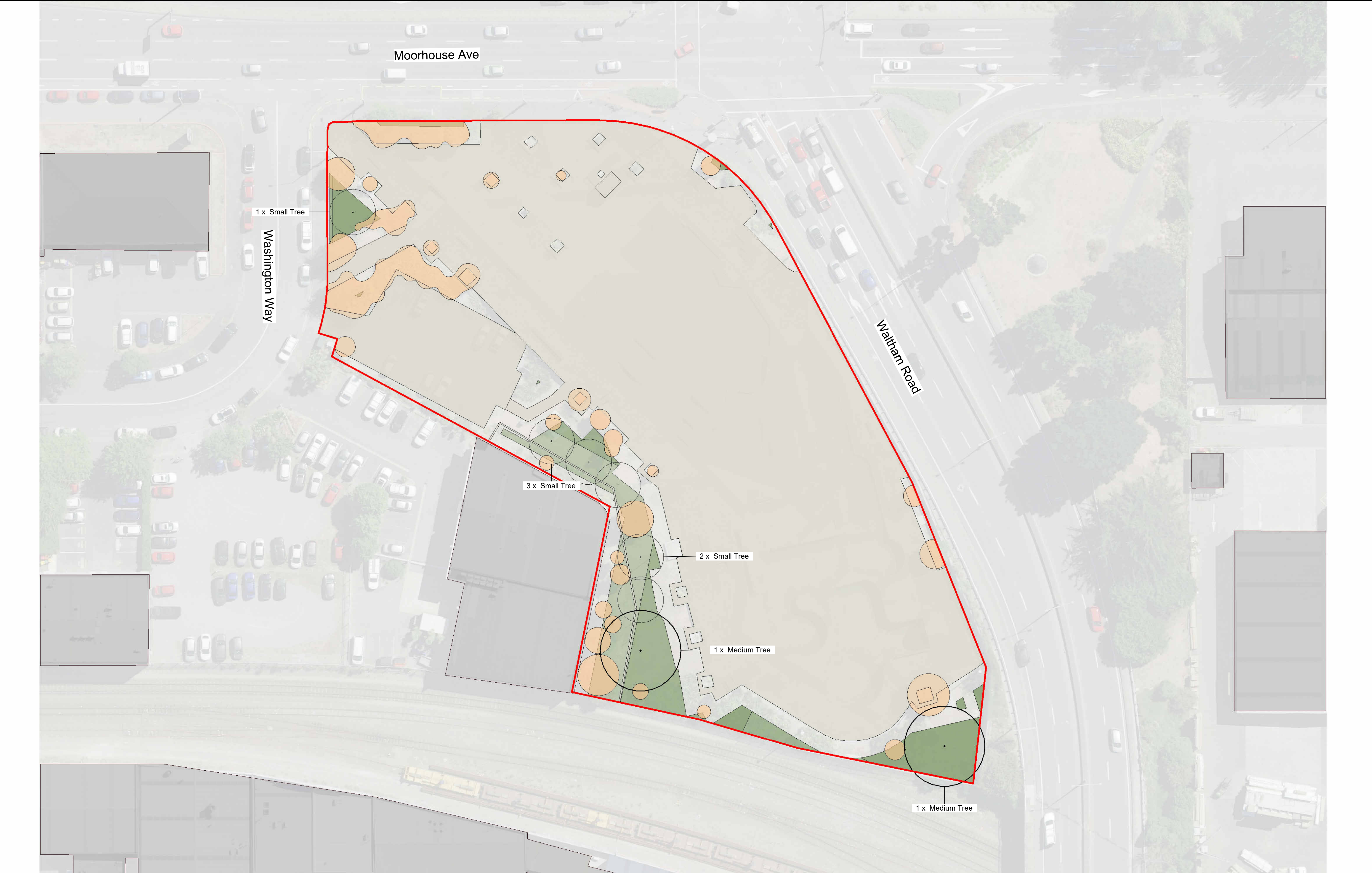
2 Winter - 3:00pm
Scale: 1 : 600



3 Winter - 4:30pm
Scale: 1 : 600



4 Winter - 6:00pm
Scale: 1 : 600



ORIGINAL IN COLOUR

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Existing Canopy Cover - 590.86 m² 7.7% Canopy coverage to existing site
Proposed Canopy Coverage - 609.47 m² 8.0% Proposed canopy coverage
Total Canopy Coverage - 1200.33 m² 15.7% Total canopy coverage

PLANTING SCHEDULE

Qty	Type	Tree Height
2	Medium Tree	Tree Height 10-15m
6	Small Tree	Tree Height 5-10m

0m 3m 6m 12m

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Planting Plan

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Scale
1:300 @ A1
1:600 @ A3

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REVISION
DRAWING NO.
BM230857_500

Concept Design

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